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A Grammar of Chukchi

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A thesis submitted for the degree of Doctor of Philosophy

of

Australian National University

May 1999



Except where otherwise acknowledged in the text, this thesis is entirely my own work.

Michael Dunn

Тывиви Вэлынкык'ун к'ытэв микынэ гагтойгыт

Acknowledgments

In this thesis I owe a great deal to many people for their kindness and generosity.

I am grateful to the people of the village of Tawajwaam, who, amidst considerable social and material difficulty, accepted me and managed to make me feel at home. The two poles of 'Tawajwaam life—the Social and Sporting Committee, and the Sixth Brigade—both helped me a great deal. Without Tawiwi (Valentina Rintuwji) my fieldwork could not have been remotely as successful as it was. In Tawajwaam I benefited from the generous efforts of my Chukchi language teachers and storytellers, 'Atawqaj, 'Ejŋewŋewat, Vasilij Iukum, Valentina Kanle, Galina Notanwat, ŋawkake, Rarowtat, Viktor Timney'e, Tawiwi, and Nina Smirnova.

The villages of Kanchalan and Alkatwaam also welcomed me. In Kanchalan 'Ajgantowgaw, Kantajgan, Kromo, 'Omrawakwagaw and Pagarowtagaw talked with me and told me stories. Petja Nawlykaj helped with translation and explanation. In Alkatwaam my kind host Elena Nutekeu patiently answered my questions about the Chukchi language, and introduced me to Paganto, Penwel and Tanecejwagew, who also shared their knowledge of history and folklore with me.

In Anadyr' Irina Gyrgol'naut and Tamara Koraw'e kindly shared their knowledge, as did the unfailingly helpful staff of the Chukchi language section of the radio station: Margarita Belichenko, Zinadia Kevev and Larissa Vykvyraxtygirgina.

Apart from the problems of trying to come to grips with the Chukchi language, life in Chukotka held many other challenges: food, clothing; housing, and administrative issues all pose great difficulties, particularly to the inexperienced. These difficulties were smoothed by the kindness and generosity of many people, including Andrej Etuwji, Galina Ivanovna and Jurij Jurievich, Aleksandr Jatgyrgin, Aleksandr and Tatiana Omrypkir, Olga Rastorgueva, Ekaterina Ragtytagyna, Tatiana and Valerij Švedcov.

I also benefited from discussions with Paleosiberian scholars Tamara Korav'e, Vladimir Nedjalkov, Vladimir Raxtylin, Nikolaj Vaxtin, Vladimir Yetylin and Alevtina Žukova. I received institutional support from Department of Linguistics and the Research Centre for Linguistic Typology at the Australian National University, the Anadyr'skoe Pedučilišče, and the Science Centre "Chukotka". ACKNOWLEDGMENTS

I am grateful to my supervisor Alexandra Aikhenvald, who has been a paragon of diligence and energy in her support of my work. I would also like to than!: my advisers Bob Dixon and Avery Andrews for their valuable insights. Timothy Curnow and Angela Terrill have also made heroic enarts in editing and commenting. The fact that I know anything at all about linguistics is thanks to my many teachers over the years at the ANU Department of Linguistics, in particular Cindy Allen, Avery Andrews, Bob Dixon, Harold Koch, Ulrike Mosel, Phil Rose, Timothy Shopen and Anna Wierzbicka.

My friends and fellow students have been very supportive also: Alec, Eva, Helen, Kazuko, Luisa, Pam, Patti, Peita, Stuart, Tony, Verna, and many others. My parents Robin and John Dunn also provided help and encouragement.

And finally I thank Angela, who lived through the whole process and managed to make it fun. Iie nawacqatajnan!

Abstract

The aim of this work is to produce the first fieldwork-based, typologically informed reference grammar of Chukchi, an indigenous language of the north-eastern corner of the Russian Federation. The theoretical approach is low-key and eclectic; linguistic phenomena are described in a manner which is, in so far as it is possible, theory-neutral, although where a branch of linguistic theory provides tools which allow clear and simple description it is used without hesitation. Linguistic description is, however, primary throughout.

The first five chapters of the thesis provide background information. Chapter 1 sketches the sociolinguistic situation of Chukchi, discusses the sources of data used for analysis, and surveys relevant linguistic publications. Chapter 2 discusses linguistic variation within Chukchi. The Chukchi men's and women's dialects are discussed within a framework of a comparison of Chukchi and the neighbouring dialects and languages of the Koryako-Chukotian group. The phonological system of Chukchi is described in chapter 3. Chapters 4 and 5 survey word classes and sentence types respectively.

The following four chapters are concerned with nominals. Nominal inflection is described in chapter 6, and the different types of free pronouns are discussed in chapter 7. In chapter 8 there is a description of nominal morphology, which pays particular attention to deverbal noun subtypes, such as participles and action nouns. Chapter 9 is concerned with complex nouns, including complex noun phrases (which can only occur in the absolutive case) and nouns with incorporation.

A discussion of verbs takes up the next five chapters. Chapter 10 contains a description of verbal inflection, a complex and theoretically interesting area of Chukchi. An account of inflectional morphology is proposed based on the notion of 'inverse alignment' and grammaticalist tech of prototypical agency relationships. Chapter 11 describes valency, surveying transitivity types and describing the valency changing and rearranging derivations available in the language, including antipassive, causative and applicative. Incorporation and compounding by verbs is discussed in chapter 12. Chapter 13 contains a discussion of non-finite deverbal forms, including converbs (a deverbal adverb which forms the head of an adverbial subordinate clause), verb bases (the lexical heads of auxiliary verbs, and the

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ABSTRACT

infinitive. Chapter 14 surveys non-valency-changing verbal derivations, which have aspectual, quantifier and modal meanings, among others.

The remaining chapters address a range of topics. Chapter 15 has a discussion of the various ways of expressing spatial relationships. In chapter 16 there is a description of the adjective and the numeral word classes. Non-verbal predication and a description of the behaviour of copulas and auxiliaries is found in Chapter 17. Chapter 18 addresses the complex area of negation, including a description of the various types of negative clauses and the ways of negating various constituent types. Finally, in chapter 19 there is an account of the pragmatic principles determining constituent order based on a discussion of topic and focus.

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Abbreviations

-VH	Recessive vowel harmony	СОМ	Comitative
	(i.e. vowel harmony	COMPAR	Comparative
	prosodic phoneme not	COMPL	Completive
	present)	COND	Conditional
+VH	Dominant vowel harmony	CONSEQ	Consequential converb
	(i.e. vowel harmony	CONSUME	Consume
	prosodic phoneme present)	CS	Causative
1	First person	DEICT	Deictic particle
2	Second person	DEM	Demonstrative
3	Third person	DESID	Desiderative
		DIM	Diminutive
Α	Transitive subject	DIST	Distributive
	syntactic role	DUR	Durative
ÁBIL	Abilitive	E	Epenthetic schwa
ABL	Ablative	EDGE	Edge of
ABS	Absolutive case	EMPH	Emphatic
ADJ	Adjective	EQU	Equative
ADV	Adverb	EQUIV	Equivalent
ADVERS	Adversative	ERG	Ergative case
Al	Alutor (language)	EXCL	Exclamation
ALL	Allative	EXI	Existential
AN	(High) Animate	FUT	Future
AP	Antipassive	HAB	Habitual
APPL	Applicative	HORT	Hortative
APPR	Approximative	ID	Identity
ASS	Associative ·	IMPOSS	Impossibilitive
AUG	Augmentative	INCH	Inchoative
AUTH	Authentic	INDEF	Indefinite
AUX	Auxiliary	INESS	Inessive
ChM	Men's Chukchi	INF	Infinitive
ChW	Women's Chukchi	INST	Instrumental
COLL	Collective	INT	Intentional

xxii.	ABBRE				ABBREVIATIONS xxiii
INTER	Interrogative	REDUP	Reduplicated		Pause-doesn't interrupt intonation contour
INTJ	Interjection	REL	Relational		Pause-end of intonational contour
INTS	Intensifier	REST	Restrictive	e	Laughter
INV	Inverse	RESULT	Resultative	@ [#]	Unclear word (transcription inside brackets represents false start or
ITER	Iterative	REVERS	Reversative		guessed form)
Ke	Kerek (language)	S	Intransitive subject	[]	Part of sentence omitted from printed text
KoCh	Chavchuven Koryak		syntactic role	SMALL	Unassimilated or spontaneous loanwords from Russian are written in
	(language)	SAP	Speech act participant	CAPS	small capitals
KoPl	Palana Koryak (language)	SEQ	Sequential aspect converb		•
LOC	Locative	sg	Singular		
MAKE	Make	SIDE	Side of		
MOD	Modal marticle	SIM	Simutaneous aspect		
MULT	Multiplicative		converb		9
n.	Noun	SING	Singulative		
NEG	Negative	SUBLAT	Sublative		
NFUT	Non-future	SUPER	Superlative	.) 	
NMZR	Nominaliser	SURF	Surface	Î	
NUM	Numeral	TAM	Tense, aspect and mood		·
0	Object syntactic role	ТН	Thematic suffix	18 - 4 - 4	
ORD	Orc'inal	TOOL	Use as a tool		
ORI	Orientative	TOP	Top of		
PASS	Passive	TR	Transitivity marker		
PCPL	Participle	UTIL	Utilitive		
PERL	Perlative case	VB	Verb derivational suffix		
PF	Perfect	Vbase	Verb base		
ol	Plural	VH	Vowel harmony		
PLACE	Derivational suffix for	vi-	Zero intransitive	- - • •	
	place names	vi	Intransitive verb		
POSS	Possessive	vi+	Extended intransitive		
PP .	Postposition	vlab	Labile (ambitransitive)		
PRIV	Privative		verb		
PROG	Progressive	VOC	Vocative (prosody)	2. 	
PUNCT	Punctual		Transitive verb		
PURP	Purposive	vt+	Extended transitive		
RECIP	Reciprocal				

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Transcription Conventions

Morpheme break

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- Separator for glosses of fused meanings
- Marker of stem position (in verb paradigms, §10) \$
- Emphatic lengthening/laryngeal constriction of preceding vowel :
- Underlying form (except in §2, where it represents a reconstructed form) *

Introduction

This work presents a grammar of the Telqep variety of the Chukchi language. The speakers of Telqep Chukchi are descendants of Chukchis who migrated south from above the Arctic Circle some time after the seventeenth century, as well as assimilated descendants of the Koryak, Kerek and possibly Eskimo populations who lived in the area prior to that. The area inhabited by the Telqeps is one of the linguistically most interesting areas of Chukotka, with intensive intercultu... contact across its borders, hints of linguistic substrate influence from assimilated populations, and a fascinating oral history and folklore tradition which, although endangered, persists to this day.

Dialect differentiation within the Chukchi language is small, and previously minor varieties have been ignored by linguists in favour of the 'standard literary language'. This 'standard language' is an artificial language based on conservative northern Chukchi, and which underwent various forms of language engineering \circ γ ; the Soviet period. The Telqep variety of Chukchi is interesting for a number of icasons. It is one of the colloquial forms of Chukchi, and it has never been the subject of separate study. Description of a colloquial variety should add valuable perspective to matters of morphological productivity and actual language use which hitherto have been lacking from published materials. Furthermore, this is the first attempt at a comprehensive grammar of Chukchi which is typologically informed and based on unelicited spoken language produced by near monolinguals.

The first section of this chapter provides a sketch of Chukchi culture, both traditional and contemporary (§1.1). This account is of course extremely selective, and focuses on those aspects of Chukchi culture which most strongly influence language use. For a more rounded ethnographic analysis the interested reader cannot do better than Bogoras (1904-1909) (see also §1.5).

The second section of this chapter discusses the linguistic history of Chukchi: its origins and genetic classification, language contact, and language maintenance (§1.2). Following this is discussion of the research conditions that shaped this study, and a general description of the data that this study was based upon (§1.3-4). Finally, there is a survey of previous publications about the Chukchi language (§1.5).

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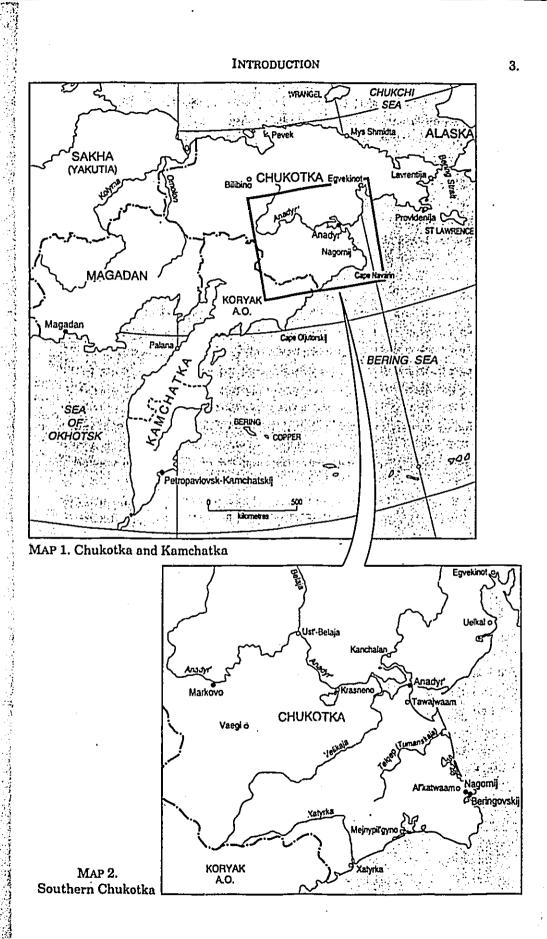
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1.1 Chukchi culture

The Chukchis are a major indigenous group of the extreme north-east of the Russian Federation. The administrative unit they inhabit is named after them; officially it is called the Chukchi Autonomous Okrug (ChAO), although it is more commonly referred to as Chukotka. It spreads from the tip of Cape Dezhnev, a mere 100 kilometres across Bering Strait from Alaska, westwards to the Kolyma River (where it borders Yakutia) and southwards to the top of the Kamchatkan Peninsula (where it borders the Koryak Autonomous Okrug) (see Map 1.). The ChAO was formed by the Soviet Union in 1930 as a part of Magadan Province and, following the dissolution of the Soviet Union, it became an independent province (name unchanged) of the Russian Federation. The capital of Chukotka is Anadyr'. an administrative settlement with a population currently around 9000 (from a peak of about 14000 during perestroika). The population of Chukotka is falling, and at the moment is less than 100000, of whom more than 10% are ethnic Chukothis.

Until the middle of the twentieth century the traditional lifestyle of the Chukchis was little affected by contact with the western colonial powers. In fact, within their region they were something of a colonial power themselves. The earliest Chukchis herded reindeer throughout the year, supplementing this by hunting and fishing as conditions allowed, and by gathering roots and berries during the short but fruitful summer. The Chukchis not only survived in their harsh arctic climate, but also prospered. A century or two prior to first contact with Imperial Russia population pressure had led some Chukchis to start settling on the coasts and make their living from the sea. At least some of these settlements had mixed Chukchi and Eskimo populations, and it seems there was a tendency for Eskimo groups to become acculturated Chukchis. To the south the need for new pastures for expanding herds resulted in a long series of conflicts with the reindeer-herding Koryaks. Koryak nomads were either pushed south or were absorbed into Chukchi populations. These processes were still visible until the 1950s, when they were interrupted by the dramatic changes in way of life for all indigenous inhabitants of the region caused by economic incorporation into Soviet Russia.

Since the nomadic Chukchis began to settle on the coasts the division between maritime Chukchis and reindeer-herding Chukchis of the tundra has been an important, although not impermeable, social division in Chukchi society. Chukchi communities maintained strong social and ceremonial bonds, and there were many important raw materials obtainable only through trade with the other groups. There was frequent intermarriage (with the wife usually going to live with the family of the husband), and there is evidence of individuals and groups occasionally exchanging one means of subsistence for the other. Reliance upon herds rather than hunting success made the tundra Chukchi much less susceptible to famine, especially towards the end of winter when hunting was impossible and coastal communities had to survive on food stocks put away the season before. The



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Chukchi of the region around the present-day town of Anadyr' were herders, but their pastures were spread out along the coast of the sea and the Anadyr' estuary. This gave them access to the best of both worlds, the security of herding plus the possibility of supplementary fishing and hunting of sea mammals.

In the Chukchi language the maritime Chukchis are called Angal?at (sg. Angal?an), which simply means 'those from the sea'. There was no such conventionalised term for the reindeer Chukchis. Some Angal?at use the term Cawcowat (sg. Cawcow), meaning 'reindeer herdeis', but to the reindeer Chukchis this means specifically 'rich reindeer herders'. Another term, more generally acceptable than Cawcowat, is Emnunol?ot (sg. Emnunol?on), 'those from the tundra'. When Chukchis speak of themselves, as opposed to any other ethnic group, they use the word Lay?orawetl?at (sg. Lay?orawetl?an), which means 'the proper people'. This is an awkward ethnonym for the linguist, as very similar cognate words are used by speakers of related languages to refer to themselves as well. It does have the advantage that it is the native ethnonym, and is used for self-reference by all members of the group. It was used an official ethnonym, particularly in scholarly circles, in the 1930s (see Bogoras 1937), but didn't catch on. The word 'Chukchi' (usually spelled 'Chukchee' in the Americanist tradition) is borrowed from Russian (pl. Chukchi; m. sg. Chukcha; f. sg. Chukchanka). For a long time this word was also used for the indigenous peoples of Alaska as well (remember that Alaska was a Russian possession before it was American). The word was coined by the earliest Russian explorers who heard it while travelling towards Chukotka through the lands of the Chukchi's Tungusicspeaking neighbours to the west. Ultimately we have come the full circle, for the Tungusic word čävča is a phonelogical adaptation of the Chukchi word cawcow mentioned above, 'a rich reindeer herder'.

Chukchis do not have a particularly structured kinship system, and the strongest social ties were traditionally to those of the camp, a group usually but not always consisting of a single family. There was no systematic way of holding authority beyo'. I one's own camp. These camps were usually a single family, often the descendants of the oldest male or the families of several siblings holding their herds in common. The maritime Chukchis had a similar arrangement based around the boat crew. Adoption among Chukchis was easy, both of Chukchis and of outsiders. Modern Chukchis involved in reindeer herding are organised into 'farms', which are based around brigades of the old Soviet state farms. Although administratively these farms are commercial enterprises, my observations suggest strong continuity with the traditional camps. In 1995 I made several visits to one brigade which was situated close to the city of Anadyr'. The brigade had a base camp, which hadn't moved for six years (a time long enough to cause comment), and temporary camps, maintained for a few weeks at a time and situated closer to the herd. The herders were Chukchis, with the exception of one Russian who he been working with the brigade for over twenty years. At the physical and social

centre of the base camp was a single large reindeer-hide tent which was surrounded by a large cluster of metal-clad huts built onto steel sled runners. The women in the camp spoke to each other in Chukchi, but only the two grandmothers were monolingual. The men spoke in Russian while at work, and only a few were able to speak Chukchi. This is the closest camp to the largest centre of Russian/Russified population in Chukotka, and other settlements do seem to have better language retention.

Many of the Chukchis are still associated with their traditional industries, but nowadays most live in permanent settlements. Some of the Telqep Chukchis of the Tawajwaam tundra live in camps near their herds but many more live in villages or in Anadyr'. On the outskirts of Anadyr' there is the old housing of the state farm (which has been known variously as the 'Red Star Farm', the 'I.V. Stalin State Farm', the 'State Farm of the XXIInd Congress of the Central Committee of the Communist Party of the Soviet Union', and lately, 'Tawajwaam'), where the major Chukchi population of the region is concentrated. Chukchis in Tawajwaam live in similar conditions to the Russian norm, in centrally heated concrete apartment blocks. There is no Chukchi school, and minimal official support for the few dedicated Chukchi teachers who try to teach Chukchi children about their language and culture.

1.1.1 Gender roles

Gender roles in traditional Chukchi society are quite distinct. Men are the hunters and the primary herders. They build the sleds, train draft animals (reindeer for the Emnugal?at, dogs for the Aŋqal?at). Women gather nuts and berries during the summer, and work processing hides, sewing, cooking and child-rearing year around. During certain times of the season everybody pitches in to help herd the reindeer. Children had their own duties. The most picturesque of these is as follows: upon waking a child would be bundled outdoors to run a lap (naked) around the jaraga (house', traditionally a large circular skin tent). On their return they would be required to report all their observations. Chukchis say that this trains endurance and observational ability. It also trained responsibility, for on the basis of these reports the day's activities would be planned.

Of particular linguistic significance, men and women traditionally pronounced Chukchi in quite different ways. Differences were both in the phonetic inventory and in the phonological system. The women's pronunciation of Chukchi has been reported by Soviet commentators to be either dying out or already extinct. Certainly Soviet language engineers have succeeded in suppressing women's Chukchi in all official contexts, although why they should have done so has never to my knowledge been explicitly stated. It may be part of the Soviet aesthetic of standardisation (cf. also the suppression of dialects, both in Chukchi and all other languages of the Soviet Union including Russian), or it may be that women's Chukchi was somehow politically inappropriate to the vision of the new Soviet Far

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North. Whatever the reason, the primary linguistic literature on women's Chukchi amounts to a paragraph before the revolution and two paragraphs afterwards (see §2.3). Considering its invisibility in the literature, I was most surprised to discover that women's Chukchi is not only universal among female speakers of Chukchi, but that due to better rates of language retention among women it comprises the most widely known and used form of the ianguage. I have been unable to observe children acquiring Chukchi (all children spoke Russian in the areas I was able to visit), but Chukchi women tell me that when children acquire Chukchi they acquire their appropriate gender dialect immediately (see also §2.3.1).

1.1.2 Language and magic.

Shamanism and traditional religious beliefs were suppressed in the Soviet Union, but a certain number of them survived. Traditional funerals are still held in the outlying settlements, and there are probably active shamans still living in the hinterland. I met no shamans myself during my expeditions, although I did meet a retired shaman and a number of children of deceased shamans. Of particular linguistic interest are the 'professional' shamans, who adopt to a greater or lesser extent the clothing, speech, and other characteristics of the opposite sex (reputedly including complete physical changes, although this is unverifiable; traditional shamanism is discussed in detail by Bogoras 1922:413-468). The speech characteristics of the opposite sex are particularly marked in Chukchi owing to the existence of the distinctive men's and women's dialects (§2.3).

The retired shaman who I met had, for reasons darkly hinted at but never explained, given up the practice of shamanistic powers some years earlier. He had cut his braids, and dressed as a man. Of his earlier career he retained the characteristic facial tattooing of a woman, and, more interestingly from the linguistic point of view, also retained the women's dialect.

1.1.3 Chukchi oral literature and history

Chukchi oral literature seems to have two main genres, folktales and history tales. Folktales are frequently populated by talking animals and have many other magical elements. These stories, whether as education or entertainment, are recognised to be simply stories, and there is no claim that such things ever actually occurred. The folktale is a well recognised genre in Chukchi (named lampal sg. / lampalte pl.), with conventionalised behaviour patterns expected of both storyteller and audience. Similarly to many other folk traditions, lampalte contain fantastic elements and stock characters and situations. There is still an energetic storytelling tradition current among the remaining Chukchi speakers.

Folklorists have also described a Chukchi oral history tradition, apparently distinct from the folktale tradition. None of the people I worked with told me any such oral histories in Chukchi. Interestingly, I did hear a few oral histories retold in Russian by younger people who could not speak Chukchi, and who did not retell folktales. My impression was that the history stories of warfare against the Cossack armies of Imperial Russia had more immediate relevance to young Chukchis of today than the fantastic stories of magical animals and travel to the spirit world. History tales relate actual events from Chukchi history. Particularly typical are accounts of skirmishes in the Chukchi-Koryak wars and battles with the Cossack armies of the Russian colonists. Such tales may also have magical elements, but such magic is usually more mundane than in folk tales, more in line with the abilities of known shamans. Early anthropologists recorded creation myths and cosmologies (e.g. Bogoras 1904-1909:1930), but these do not seem to form part of the repertoire of contemporary Chukchi story-tellers.

1.1.4 Naming

Chukchi traditionally had a single name which was given at birth and did not usually contain any kinship information (although, according to Raxtilin [pers. com.] elements of names do recur within families over generations). These names are usually descriptive, often relating to the idea of return from the spirit world or the circumstances of birth. Examples of such names are Jetal?an 'the one who has come', Jatyaryan 'arrival', Remkal?an 'the guest', Yaryolgawat 'woman from above' (see also Bogoras 1904-1909:514-518).

The element -wji/-wje is a common terminal element in names, particularly among Telqep Chukchis. Bogoras says that the origin of this naming element is unknown (1904-1909:515). Some Chukchis speculate that this is related to the verb wji-k 'to breathe', but then cannot explain the meanings of names including this element. Qorawje 'reindeer breath' and, Timŋewje 'lost breath' would make a certain sense, but what of other names like Rintuwji 'thrown breath'? A more likely proposal than the 'breath' folk etymology is that it is cognate with a form of the Koryak plural marker -wwi ~ -wwe (e.g. Žukova 1980:57), although plurality does not seem to be consistent with other Chukchi naming practices. It may turn out that this name element is an untraceable fossil or unanalysable borrowing.

Sometimes a name would be changed in response to some crisis in life, particularly if so advised by a shaman. I am aware of several instances of children being renamed something unappealing during life-threatening illnesses to turn away the attention of the spirits. **?El?el** 'shit' is such a name. Chukchi naming practices have changed as the Soviet bureaucracy demanded that all its citizens had a given name, patronymic, and family name according to Russian usage. In the past people took their Chukchi name as a family name and then took (or were given) an arbitrary Russian name and patronymic. Today Chukchis are completely assimilated to Russian naming practices to the extent that the absolutive ending -ən in surnames is frequently reanalysed as the Russian -in (a masculine suffix for surnames), which is then given a feminine form -ina.

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1.1.5 Recent history

Soviet nationalities policy as it applied to the Chukchi was a strange mix of the enlightened and the sinister. According to overt Soviet policy Chukotka should be a paradise for indigenous languages and their speakers, with official support for native language in education, health, and public affairs. In practice official behaviour towards minority groups and languages was inconsistent at best and at times one can only infer a covert assimilationist policy prejudiced against any attempt at linguistic or cultural preservation. While the Lenin Library in Moscow contains Chukchi language health manuals from the 1930s, nothing like this has been seen in Chukotka for a long time. Several of my Chukchi acquaintances reported that during their childhoods there were many books published in Chukchi but that at one point they suddenly all disappeared from the schools. Most Chukchi children were taken away from their parents and brought up in boarding schools (Russian internat). The rationale was that the children needed to go to school and that parents could not look after their children while out working with the herds. Several people told me that they had to walk past their parents' house to get to school from the children's home, so this was clearly not always the true justification. In the boarding schools all social interaction was in Russian, and many people mentioned being punished for speaking in Chukchi. If children brought traditional Chukchi food into the homes it was confiscated and destroyed. There are many stories of children running away from these homes, and the response from the authorities seems invariably to have been sending the child to another home further away from their parents. Good discussions of recent history and indigenous affairs in Chukotka are found in Forsyth (1992) and Vakhtin (1992, 1993).

Prior to the policy of institutionalisation of Chukchi children there was a more enlightened practice which left children with their parents and sent roving schools out to the encampments to meet them. It is unclear how general this was; none of the Telgep Chukchi remember hearing about it happening in their region, but perhaps it only occurred in the north. Many Chukchi did finish their schooling and were encouraged to study further, mostly in a special faculty in Leningrad, The Faculty of the Peoples of the North (FPN). This faculty was created as affirmative action for Chukchis and other educationally disadvantaged indigenous groups in the 1930s. The downside of this programme was that if a Chukchi student wanted to study anywhere else than the FPN they forfeited special state assistance for indigenous peoples. Consequently, a striking number of Chukchis with higher education are trained as folk dancers, folk artists, or indigenous education schoolteachers. Perversely, after the suppression of the Chukchi language in schools students in the FPN had to pass formal exams in indigenous languages. These examinations were composed according to Skorik's weighty reference grammar (Skorik 1961, 1977; see literature review §1.5) which was officially recognised as authoritative. Even the Chukchi students who did still speak their

native languages frequently failed these exams, with their focus on the formal aspects of obscure Indo-European based grammatical classification. One native speaker of my acquaintance failed a simple vocabulary test in his native language because most of these basic vocabulary items were either different in the dialect that the official grammar was based upon, or the orthography could not represent his regional pronunciation.

There are many problems for Cnukchis today to overcome. Their traditional culture still exists in pockets but is very much in a state of crisis. Alcoholism is widespread, and most deaths among Chukchis have alcohol as a contributing factor. Although the Soviet Union is doubtlessly responsible for many terrible things with respect to its indigenous populations, the fall of the Soviet Union has also caused great difficulties. The economic stress suffered by the new Russian Federation is hitting the poorest citizens hardest, and for every 'new Russian' businessman or administrator driving down the main street of Anadyr' in his luxury American four-wheel-drive there are hundreds in poverty. I know no Chukchi whose economic situation has improved over the last few years and there is understandable nostalgia for the 'good old days' of the decades preceding perestroika when imported food was plentiful and cheap. The herders are glad to own their herds again, but difficulties with transportation and marketing gives little hope that these will be turned into profitable enterprises in the foreseeable future. A large class of urban Chukchis has arisen in the towns and villages of Chukotka, many living far from the lands where they have traditional ties. A majority of these work in government sector, and so are very vulnerable to the frequent government cutbacks to services.

1.1.6 Literacy

Chukchi language literacy has a limited role in Chukchi rulture. With the exception of the elderly, most Chukchis are either bilingual in Russian and Chukchi or monolingual Russian speakers. Literacy levels in Russian are high, and many Chukchis are avid readers. Literacy levels in Chukchi are harder to evaluate, as there is not a great role for Chukchi literacy in society; fluent Chukchi speakers tend to live a more traditional lifestyle, and do not have much need for writing. The few occasions that people left each other notes these were written in Russian, which is after all the language of their schooling. With respect to reading, most Chukchi language publications are translations from Russian, and the Russian originals are more easily available. Until 1995 there was a Chukchi language newspaper published in Anadyr', but this was closed when the provincial government withdrew its subsidy.

The history of Chukchi literacy goes back about a century. Bogoras made the first major attempts at writing Chukchi during his various travels and expeditions between the 1890s and the Russian Revolution. He used the Latin alphabet plus a few diacritics to give what we would now call a phonetic (as opposed to BACKGROUND

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phonological) representation of Chukchi (§3.7.2). Although he does lose some . phonological detail in his script modern native speakers of Chukchi who know the Latin alphabet are able to work out most of what he has written. After the revolution Bogoras was involved in the development of literacy for Chukchis and a more accurate latinate orthography was developed which depicted phonemes instead (with supplementary letters from Cyrillic, e.g. schwa was represented by the Russian 'soft sign': ψ^{0} . This orthography was used in the first Chukchi-Russian dictionary and schoolhooks. A few years later almost all the languages in the Soviet Union were changed over to a Cyrillic orthography (the exceptions were all languages of entire republics with ancient traditions of literacy). This Cyrillic 3 orthography is still used today in a very limited way ($\S3.7.1$). The orthography departs far further from a phonological representation than is warranted on linguistic grounds. It has a great deal of redundancy and is burdened with Russian spelling rules, which do not and cannot apply to Chukchi. Sadly, the result of this writing system is that without a fairly abstract understanding of the principies underlying the Russian orthographic system it is impossible to spell Chukchi in the officially approved manner. This goes along with the general representation in education of Russian as a 'proper' language and Chukchi as a kind of aberration. Skorik (1964:317-318) contains criticism of the Chukchi orthography, which shows that he was aware of the difficulty it causes in learning for non-Russian speakers.

1.2 Linguistic situation

The Chukchi language has very few genetic relatives. Alutor, Koryak and Kerek are all closely related to Chukchi, and are spoken either within Chukchi land or in territories contiguous with it. This group is called is called 'Chukotian' or 'Koryako-Chukotian'. The Chukotko-Kamchatkan family consists of these langauges and the language Itelmen (previously known as Kamchadal). Although Itelmen has many surface similarities to Chukotian languages, the identity of this family is controversial; Comrie presents evidence to support the hypothesis of genetic relationship between Chukotian and Itelmen at a distant stage of linguistic prehistory, but indicates that detailed reconstruction of proto-Chukotko-Kamchatkan is almost certainly impossible (Comrie 1980b:120). The best evidence Chapter 1

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is the similarities of the personal pronouns and some of the case morphology. however the lack of systematic regularities outside these grammatical subsystems suggests that the relationship may be one of distant language mixing, areal diffusion, or creolisation². In contrast, it is clear from high levels of cognacy that the various Chukotian languages are very closely related. Comrie (1981:240) suggests that on purely linguistic grounds these languages could be considered dialects of a single language³. However issues of cultural difference and selfidentification of members of these groups would require them to be considered as separate outside, academic contexts. Some of the awareness of ethnicity by members of these language groups can be dated to quite recently. Bogoras (1904-1909:16) describes people on the Chukchi-Koryak border who did not consider themselves exclusively members of one group or the other, an ambivalence reportedly reflected in their language. The first stirrings of racial identity are attributed to social polarisation during what are now called the Chukchi-Koryak wars of the 18th century (Gurevič 1982:206), when the northerners (proto-Chukchis) began a series of depredations against the southerners (proto-Koryaks). The current notion of 'race' or 'ethnicity' (Rus. национальность) was reified for Chukchis and Koryaks when they first received internal passports after the revolution. The ethnicity recorded in these documents (reflecting the state of ethnography of the time) became an administrative determinant of many aspects of life, including housing, health care and education.

1.2.1 Language contact

In the seventeenth century the main body of Chukchi population was concentrated in the inland regions in the extreme north east of Chukotka. A smaller population located along the coast to the west of the Kolyma river looks like a remnant population of an earlier period when the Chukchis covered a greater territory. Eskimos inhabited almost the entire eastern coastline of the peninsula. The rapid Chukchi territorial expansion of the succeeding few centuries gained (or regained) all the land held by speakers of Yukaghir and Altaic languages between the two populations and established a major settled presence along the coastline. The spread southwards took over much land previously inhabited by speakers of Koryak dialects and left only an isolated pocket of the Even language around the river Velikaja (there are also pockets of Even down the Kamchatkan peninsula).

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¹ At about the same time a hitherto illiterate Chukchi called Tagewil devised an ideographic writing system for the Chukchi language. He taught some of his system to his children, but it never spread any further than that. He left a huge written corpus, and about 2000 texts are preserved in the Russian Museum of Ethnography (Mindalevich 1934a, 1934b). Most of this writing is untranslated, and presumably untranslatable. I have seen a reproduction of one sentence with a Russian translation, and so far as I can tell from this example the orthography encodes only lexical content words and there is no sign of symbols encoding the case and person/number agreement markings of spoken Chukchi. Another, untranslated, text seems to be an annotated (and/or decorated) diagram of the Chukchi cosmology. See also Dikov 1989 (plate between 96-97).

² See Bogoras 1922:641 for a discussion of well-established Koryak-Itelmen language mixing by Itelmen speakers, and Golovko 1994, 1996 for a description not dissimilar situation of Russian-Aleut language mixing on Copper (Mednij) Island, off the eastern coast of Kamchatka.

³ There were no Koryak speakers in the regions I visited, but Chukchi speakers were of the opinion that Koryak and Chukchi were mutually unintelligible. I have however been able to see transcripts of Koryak texts in a number of different dialects (Žukova 1988), and as a linguist find them strikingly similar to Chukchi.

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Alutor and Kerek were the languages of much smaller groups and speakers of these languages gradually became assimilated to Chukchi language and culture. There are few if any remaining speakers of these languages today. Some Tawajwaam people recall recent ancestors who were Kereks, and they say that the southern coast of the Anadyr' estuary from the city of Anadyr' south to Xatyrka on the border of the Koryak National Region was inhabited by Kereks.

The two Altaic languages bordering Chukchi land are Yakut (Turkic) and Even (Tungusic). If Altaic is controversial as a linguistic phylum, nevertheless the speakers of the two languages are united in Chukchi by one name, Qoraramkən 'the people of the reindeer'. Chukchi say about Qoraramkən that they ride astride their reindeer. This is notable because Chukchi reindeer are never ridden; as a mode of transport they are only used to pull sleds.

In Chukchi one of the most common ethnonyms meaning 'Eskimo' is Ajwan or Ajwanal?an. Chukchi and Eskimo have influenced each other, although much more has gone in the direction $Chukchi \rightarrow Eskimo$ than the reverse. Eskimo influence on Chukchi is mostly limited to lexicon, although Fortescue (1997) argues in detail for some significant grammatical influences too. Lexical influence is strongest in semantic fields to do with the sea, particularly boats, sea creatures and sea hunting. For example, the Chukchi word puwreq means 'beluga whale', and is identical to Eskimo. A Tawajwaam Chukchi (who does not have any contact with Eskimo-speaking Eskimos) told me that the word was onomatopoeic: puwreq is the noise of a beluga whale sounding. All other examples of Eskimo words in Chukchi I only know from written sources and are only recognised by Chukchis coming from the north, not by Tawajwaam Chukchis. The Eskimo from both sides of Bering Strait has been deeply influenced by Chukchi, both lexically and grammatically. This is discussed in de Reuse 1994b. The Eskimo word for European laluramka has a transparently Chukchi etymology leluremkan 'bearded folk' (indigenous Chukchis have little facial hair). This word has fallen out of use in Chukchi in favour of melyətanŋət 'fire strangers'4, but a similar word lelul?ət 'bearded ones' is a regional form used by old people in Tawajwaam. Gurvič reports Chukchified Eskimo toponyms along the Chukchi coast stretching between 60 ° and 70° north, suggesting earlier Eskimo inhabitation and probable cohabitation or assimilation with Chukchis (Gurvič 1982:197).

Kereks and Koryaks are both simply known at tannot 'strangers' in Chukchi. Since Chukchi habitation of the Tawajwaam tundra is quite recent, and before them the land belonged to tannot, it is tempting to look for substrate influence from these languages. One peculiarity of Telqep Chukchi is that the word 'yes' is different for men and women: men say ej, women say ii. This is the same as in some varieties of Koryak (e.g. Palana Koryak), whereas in other forms of Chukchi there is only one word ii (§2.3.4). Telqep Chukchi have no contact with Alutors and I could not discover a Chukchi word for them.

Chukchi contact with the Russians dates from the seventeenth century, but was not intensive until nineteenth. North Americans were also active in Chukotka throughout the nineteenth century, and Chukchi has a number of well-established loanwords from both English and Russian. There is also evidence that the sailors' jargon of the American whalers was known to Chukchis: the word **kawkaw** 'bread, biscuit' (originally from Austronesian) is used in northern Chukotka, and Bogoras (1904-1909:730) cites a note which he received from a boy in Providenija (or 'Providence', as it was then known) written in 'broken English' which shows grammatical features unlike Chukchi or English, but most reminiscent of South Seas Pijin English⁵. Telqep Chukchi has mostly borrowed from Russian, and speakers do not know most of the English loanwords that occur in the north. Some borrowings are deeply assimilated. The word **korpalyan/korpat** 'buckwheat' sg./pl. originates from Russian [*kru'pa*]. The unstressed vowel is changed so as not to violate vowel harmony (§3.4.1) and there is a metathesis of vowel and consonant to avoid a phonotactically impossible initial consonant cluster (§3.2.2).

At the end of the nineteenth century there also existed a kind of 'trade Chukchi' used for intercultural contact with (at least) Russians along the Kolyma Piver. In 1895 Bogoras learnt to speak this language, incorrectly believing it at the time to be Chukchi proper (Vdovin 1954:107-109). I have questioned elderly Chukchis about intercultural communication in their days of their youth in the tundra, but have been unable to establish whether any such pidgin was used in their time. Members of other indigenous groups (e.g. Evens) were reported to have spoken Chukchi in their dealing with Chukchis—in this context this could mean anything; fluent Chukchi, broken Chukchi, or a conventionalised pidgin. See also Comrie 1996, Hancock 1996.

⁶ I reproduce the letter here in full from Bogor_w: (1904-1909:730-731). Text of Celqar's letter:

I WLTL YUO ALASNEIT ME CAM POORESSEB ME NO KERDT NETD. MERAKN MAN. NOO. COOD. MAI POOI. CERAI AYN PEIEB E LIKM ROOSEN MAN GOOD MAN SOOBBOS E KVTM MAI POOI PEIEB MEI VEL GOOD.

Bogoras' translation:

I will tell you. Last night me cam board o' ship. Me no got nothing. American man no good. My boy cried (to have a) pipe. He like him. Russian man good man. Suppose he gave it him my boy pipe, my feel good.

Note in particular SOOBBOS *suppose* used as a subordinator, and the final -M of LIKM *like* and KIVTM *give* which look like standard South Seas Pijin transitivity markers. English loanwords in Chukchi are discussed in de Reuse (1994a).

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⁴ Fire has sacred significance in the traditional Chukchi belief system, and new fires were never made without considerable ceremonial (usually only once per year in the festival of kilwej). Chukchis were apparently quite struck by the Europeans' promisculty in starting and extinguishing fires.

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1.2.2 Language retention and codeswitching

In the 1990s all indigenous languages in Chukotka are very much at risk. Chukchis are congregating more and more in urban areas, and in urban areas children do not learn their native language. Even children who have recently come in to town from the tundra and can speak Chukchi nevertheless will not speak it in town, even with their parents and grandparents. In Tawajwaam, the Chukchl suburb on the outskirts of Anadyr', Chukchi is rarely heard. There are many fewer male Chukchi speakers than female. The remaining Chukchi speakers use it only in restricted social contexts, such as conversing with elderly monolinguals, and in opening speeches at ethnic festivals. There are regular, although brief, broadcasts in Chukchi on the local radio and television, but as state funded, non-revenue raising enterprises these are subject to continuous cuts. The only attempts to teach Chukchi to the children come from a few dedicated cultural practitioners who struggle in the face of disheartening conditions to preserve something of their language. To date the results of their efforts are small; the teachers have little or no training in language teaching and the children have no motivation to learn. The most likely precursor to revival of the Chukchi language would be an awakening of political awareness and pride in being Chukchi. While there are stirrings of this, there are also powerful groups whose interests are deeply opposed to Chukchi cultural revival.

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In the villages surrounding Anadyr' (one or two days travel) language retention is higher. Some children are either brought up at the herds, or spend considerable time living there with their parents. There are greater numbers of elderly people who are monolingual in Chukchi, and the pressures to conform to general Russian society are less. While in the town 30 year olds are more frequently not full speakers of Chukchi, in the villages they usually are. However even in the villages I did not hear children speaking anything other than Russian, and their command of Chukchi is at best passive. It is interesting that the higher rates of language retention among women are occurring despite a reduction of women's role in the industries closest to traditional cultural activities. Women and children now generally live in permanent settlements distant from the reindeer herds where the men work; the traditional encampment closer to the herd is a rarity. Women's work such as hide processing, clothes making and food gathering has been rendered less important as imported clothing, tents and food have become common.

Chukchi is thus a highly endangered language. While at the time of writing there remain lots of native speakers, transmission of the language to the young has been disrupted, and political and economic support for language maintenance is very low.

All contemporary speakers of Chukchi know at least of few words of Russian. Full speakers generally keep the two languages apart, but in certain circumstances speakers switch between Chukchi and Russian within a single sentence. This is sometimes for sociolinguistic affect (see §19.1.1, footnote 1), but within my data it is more often is an attempt at adaptation towards the perceived communicative needs of younger listeners; speakers with a very sketchy knowledge of Russian repeat keywords which they happen to know in both Chukchi and Russian. Codeswitching is not edited out in the texts reproduced in this work, any decrease in the 'elegance' of the data is, I hope, compenstated for by the increase in transparency and fidelity of the data source.

1.3 Research conditions

Chukotka is a far from easy place to carry out social science research. The administration of the province has very little outside support, and the passing of the glory days of the Soviet industrial expansion into Siberia is much regretted. During the period of the Soviet Union the whole of Chukotka was a closed zone, to which even relatives of inhabitants could travel only with special permission. The current legal situation of people wishing to travel within Chukotka is difficult to determine, although the basic principle is that the laws of the closest authority are the ones which are enforced.

Administrative difficulties aside, transportation within Chukotka is very difficult to manage. Ground transportation is by means of the vezdexod (All Terrain Vehicle'). These are a civilian version of a tracked army personnel carrier. They are slow, dirty, noisy, heavy, ecologically destructive, and horrendously fuel-inefficient. Chukchi 'bush mechanics' seem to be able to keep them going indefinitely. In warmer weather the tundra is soft and muddy and vezdexods make their way only with difficulty. Other times of the year they struggle with soft or powdery snow, or crash through thin ice into mud or water underneath. Freeing a stuck vezdexod which has broken through 10cm of ice into a metre of icy mud is a heroic achievement. River transportation is only possible during the summer-even in spring the rivers are either frozen over or full of broken ice. Neither ground nor river transport run passenger services, nor do they follow schedules. To get transport requires contact with a network of art aintanceship, not to mention patience and persistence as days of delayed departures turn into weeks. Air transportation is astonishingly expensive; it is cheaper to fly from Moscow to Sydney than to fly within Chukotka. The aircraft are ageing and ill-maintainedthree planes crashed in the province during the periods I was there.

I made two trips to Chukotka, each lasting six months. During the first, in 1995, I lived in the village of Tawajwaam on the outskirts of Anadyr'. During the second I also worked in Tawajwaam, and travelled to the villages Kanchalan and Alkatwaam. In the villages I participated in community activities, such as festivals and building projects, and had a programme of visiting the old people to record folktales and reminiscences, as well as just to chat. Hearing problems (environmentally caused) are endemic among Chukchis of all ages, and conversation was difficult. However, the situation of an elderly person telling stories to a younger audience is well established as a genre, and many people were

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happy to do this for hours on end. Analysis of these texts was harder. I was unable to accurately translate folktales myself, so needed the assistance of a bilingual speaker. I am extremely grateful to Təwiwi (Russian name Valentina Ivanovna Rintuw'i), a teacher of Chukchi handicrafts and committed amateur anthropologist, who transcribed and translated the majority of my texts. This work could not exist without her efforts.

In Tawajwaam the language of day-to-day communication is Russian. People of about 30 years and older speak Chukchi, and the elderly are monolingual. The bilinguals use a certain amount of code-switching, and even younger non-speakers use a few Chukchi interjections (ii/eej 'yes', qoo 'I dunno') and discourse particles (naqam). The conventional greetings jety?i and jettək are literally 'you (sg) have comel' and 'you (pl) have come!', and the conventional reply is simply ii/eej 'yes'. These greetings have been reanalysed by non-speakers, who treat them as identical to Russian *zdravstvij!* 'hello (sg)' and *zdravstvijtel* 'hello (pl)', using jety?i/jettək as both greeting and response, and using the plural form as a respectful form of address to individuals (i.e. the general European *tulvous* distinction, which is not otherwise used in Chukchi).

My linguistic consultants can be divided into two groups, elderly (near-)monolinguals, and younger (30+) bilinguals. As already mentioned, I was able to obtain excellent narrative data from the monolinguals, however I was unable to achieve much with them in the way of 'traditional elicitation', in the sense of grammaticality judgements, guided discourse and description tasks, and so on (see Bogoras 1904-1909:52 for similar experiences). The bilinguals tended to be uncomfortable producing novel sentences outside real conversation with other full speakers, and in artificial contexts generally produced very Russian-like syntactic constructions. Schoolteachers, who had all attended the same teachers' college in St Petersburg, had received heavy exposure to Shorik's Chukchi grammar, and accepted it as the prestige standard, although the string privately that nobody they knew spoke like that. Attitudes to the Russian language within Russia tend to be extremely normative (speakers of covert presuge alternatives such as thieves' jargon and the obscene-poetic slang excepted, of course), and this attitude has been instilled in Chukchi educators. People are quite happy to conclude that all Chukchi speakers use their native language incorrectly if popular usage does not agree with Skorik's grammar. While methodologically suspect, the greatest tragedy of this is that it frequently renders language teaching to non- and partial speakers completely ineffective-the language they are taught does not correspond to that used in the community.

1.4 Data

This work focuses on a subset of speech genres, chosen pragmatically (in the nonlinguistic sense) as those which were easily recognisable and practical to collect. The three broad types of language sample collected were (i) conversation, (ii) elicited monologues, and (iii) folktales⁶. The examples of conversation were limited to incidental conversation and semi-interview situations with one (younger, usually less fluent) native speaker talking with a knowledgable older speaker about a topic selected by me and the interviewer. From some speakers the latter produced long monologues, without guidance or turn taking. This usually occurred when balanced conversation was impossible, either because of low fluency on the part of the interviewer (especially if the interviewer was me) or when the interviewee was hard of hearing (all the elderly Chukchi speakers I knew had hearing problems; hearing loss seemed very common throughout the Chukchi community). These monologues were us ally historical narratives, or descriptive or procedural texts (see also §1.1.3). The main database consists of about fifteen hours of transcribed tapes. This work does not attempt anything like a complete study of language genres. The difficulties of working with a language with a speech community almost entirely of elderly people are such that any generalisations about the distribution of different speech patterns in daily life can only be skewed.

1.5 Survey of published sources

Publication on the Chukchi language to date includes grammars and a number of dictionaries. There are also quite a number of articles, more or less accessible, some of which have a primarily descriptive intent, but many of which are more concerned with Chukchi evidence in favour of various theoretical positions. In what follows I will give a detailed account of the published grammars and dictionaries, and a survey of what I consider the more significant papers.

Some of the major works about Chukchi are only available in Russian, others are either originally in English, or, in rare occasions, there are English translations.

The first grammar of Chukchi is the work of Waldemar Bogoras (in Russian *Vladimir Bogoraz*; citations of English language works traditionally use the s-spelling while those of Russian language works use the z-spelling) who studied the languages and cultures of a number of the indigenous groups of what is now Russian North Asia. He arrived in Chukotka in 1896 at the age of 24, under a tenyear sentence of exile for political activities with the illegal political party National Will (*Narodna,'a Volja*). Although without any relevant training, Bogoras turned out to be a talented fieldworker, and at the turn of the century published an ethnographic and linguistic sketch (Bogoras 1900) which led to the St Petersburg Academy of Sciences petitioning the Tsar for a reprieve. This was granted. Bogoras returned to Chukotka for five years to carry out more intensive research on Chukchi language and culture for the Jesup North Pacific Expedition, under the auspices of the Smithsonian Institution.

⁶ I have tried as much as possible to avoid elicited sentences in this description, as data so gained seems to be qualitatively different from spontaneous speech in narrative. Examples coded [na...] and [nb...] are from my notebooks; all other codes refer to non-elicited texts.

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Bogoras' major ethnographic publication is *The Chukchee* (Bogoras 1904-1909). This contains a wealth of beautifully written ethnographic description in the Boasian tradition (Boas edited both Bogoras' English-language works). This ethnography is greatly respected by contemporary Chukchis, who have access to a Russian translation produced under Bogoras' guidance (Bogoras 1939a, 1939b)⁷. The details generally concur with the personal experience of Chukchis who grew up in the tundra prior to the 1970s. From Bogoras' writings it is clear that he was able to participate in Chukchi daily life and had a command of spoken Chukchi adequate to freely converse on any topic.

Following the Jesup North Pacific Expedition Bogoras also published a collection of texts, *Chukchee Mythology* (Bogoras 1910).

Bogoras' grammatical sketch of Chukchi was published in 1922 in Boas' *Handbook* of American Indian Languages. Although entitled *Chukchee*, this work is actually a comparative grammar of Chukchi, Koryak and Itelmen (then known as Kamchadal). It contains a phonological and morphological description, but does not discuss syntax. The publication of this grammar was very much delayed. Hyatt (1990:80) quotes three letters from *The Franz Boas Papers*, *1858-1942* (1906; May 25, June 2 and June 8) in which Boas pleads with Bogoras to send manuscripts. Work hardly progressed, apparently due to lack of commitment to linguistic issues on Bogoras' part (Hyatt 1990:73), and in 1914 with war and revolution all work ceased. Bogoras was more interested in social-ethnographic issues, and language was always subordinated to ethnographic research. While Bogoras' data is superb, the final form of the published grammar owes much to Boas. To quote the editor's preface,

Since the principal object of the series of sketches presented in this Handbook is the elucidation of the grammatical categories found in the present condition of each language treated. I thought it best to rearrange the material on the basis of an analytical study. I am therefore responsible for the essential form of arrangement and presentation here given. [...] (Boas 1922:637)

Boas goes on the point out that this was done in consultation with the author. At the end of the preface there he points out that,

The war has delayed the publication of this work beyond expectation, and the final revision had to be made by the editor. (Boas 1922:637) According to Bogoras' later colleague Vdovin (Vdovin 1954:114), Bogoras later expressed discontent with Boas' 'meddling' (Russian 'vmešatel'stvo'; it is unclear whether this is Bogoras' word or Vdovin's) with his manuscript. However, the original manuscript is not found in the 'Bogoras archive' in Russia, nor in Boas' papers archived at the Smithsonian. The lack of syntactic description in the grammar is typical of grammars of the time, particularly those produced by Boas and his students (Murray 1994). Volodin (1954:111) claims that this is simply because of Bogoras' focus on ethnographic research he had neither time nor interest to investigate syntax in depth.

After the turmoil of the Russian Revolution, Bogoras pursued an scholarly career in Soviet academia. His final major publication on Chukchi (published posthumously) was a dictionary, *Luoravetlansko-russkij slovar' [Chukchi-Russian Dictionary]* (Bogoras 1937). This fine dictionary is a bibliographic rarity. There are copies in a few Russian libraries in Moscow and St Petersburg (none in Chukotka), and in the private collections of a few Russian scholars. The Chukchi part of this dictionary is written in the latinate orthography suppressed by Stalin in 1939 (see §3.7), which may explain why so few copies exist. This dictionary is linguistically interesting because it is the only published dictionary that has entries for individual morphemes; all other Chukchi dictionaries are organised as bilingual wordlists of translation equivalents.

The most important of Bogoras' successors in the study of Chukchi was P.Ja. Skorik. Skorik produced a series of publications on Chukchi linguistics from the 1940s to the 1980s (see Bibliography). His major work is the two volume reference grammar Čukotskij jazyk [The Chukchi language] (Skorik 1961-1977). This grammar seems to be intended more for pedagogical purposes than scientific. It is used in the pedagogical colleges (in particular, the Faculty of the Peoples of the North, see §1.1.5) as the definitive authority on the Chukchi language. Skorik bases his work on his personal experience living in a then largely Chukchispeaking community as a schoolteacher in 1928-1930 and 1932-1944, as well as four expeditions in the years 1948-1956, and four more in the years 1971-1974 (Skorik 1961:13). The primarily pedagogical ends of the grammar are reflected in the way it is based around European grammatical categories. Although the grammar includes copious numbers of example sentences, their naturalness as examples of Chukchi is questionable. Commonly occurring but difficult to translate grammatical particles (e.g. layen, =?m) are virtually absent. Multiple examples of a particular phenomenon generally have identical word order and no extraneous material, suggesting strongly that they are either all translations of Russian, or worse, that they are simply made up. To speculate about the latter possibility

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⁷ Volume II of Bogoras 1939, which describes Chukchi religious practices, is prefaced by the then-obligatory political essay, in which Bogoras apologises for the lack of Marxist-Leninist content in the work. Although this essay has the typical tone (both strident and abject) of Stalinist self-criticism, it is interesting to note that Bogoras was able to publish his translation without adaptation.

⁸ The danger of writing a non-IE grammar in terms of IE grammatical categories is a pitfall Skorik was aware of (Skorik 1961:10), but which he nevertheless does not entirely succeed in avoiding.

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would seem uncharitable, if it were not for the fact that some of Skorik's amply exemplified description differs in major structural ways from natural data found in my collections of Chukchi narratives. Text-based analysis of valency changing devices (§§11.5-6) casts doubt upon Skorik's antipassive data in several ways; he describes the antipassive as productive, which is not the case, at least in Telqep Chukchi, and he does not notice that the morpheme which makes the antipassive with some stems makes an applicative with others. Unless evidence is forthcoming that Skorik's data represents a true, spoken variety Chukchi it would be wise to approach his materials with scepticism.

Skorik's doctoral dissertation was also published, entitled Ocerki po sintaksisu čukotskogo jazyka. Inkorporacija (Outline of Chukchi syntax: incorporation) (Skorik 1948). This work was written under the supervision of Meščaninov, a follower of Marr's discredited social-linguistic theories, and it contains a certain amount of material which seems bizarre to the modern reader. For instance, this work originates the patently untrue assertion that incorporation was dying out among younger Chukchis. In fact, this conclusion was a necessary corollary of the Marrist paradigm, in which a notion of level of cultural achievement was considered to have a negative correlation with the 'primitive' grammatical phenomenon of incorporation. Thus, the Chukchis who had given up nomadism and lived closer to the general European-Russian norm were classified as culturally 'higher', and thus would be expected to use less grammatical incorporation. When Stalin, in his own notorious foray into linguistics (Stalin 1950), turned against Marr, Skorik published a humiliating (although objectively justified) retraction of this 'data' (Skorik 1952). It is difficult for a scholar coming from an outside tradition to evaluate research coming from the 'middle period' of Soviet linguistics. It is a testament to these people that they managed to produce anything at all. Bogoras had credentials of pre-revolutionary political activity which allowed him to act with a certain amount of independence even during the early stages of Stalin's ascent⁹. His followers did not. As an academic, Skorik had the misfortune to live through the whole of the personality cult, and was forced to many compromising and humiliating public statements at a time when international scientific communication was at an all-time low.

Other published pedagogical Chukchi-Russian dictionaries are *Russko-cukotskij* slovar' dija cukotskoj skoly [Russian-Chukchi dictionary for Chukchi schools] (Skorik 1941), Cukotsko-russkij slovar' [Chukchi-Russian dictionary] (Moll & Inenlikej 1957), and *Russko-cukotskij cukotsko-russkij slovar'* [Russian-Chukchi Chukchi-Russian dictionary] (Inenlikej 1976; revised edition 1987). Moll and Inenlikej 1957 contains a bare minimum of grammatical information (missing altogether in the other dictionaries) including vowel harmony and non-word-initial forms, but lacks information on transitivity. Word class is sometimes apparent through the choice of citation form.

Belikov 1961 Ləy'orawel'en ləmgəlte is a collection of Chukchi folktales; Russian translation *Čukotskie skazki* also published. This collection was edited for brevity (not a usual characteristic of Chukchi folktales) and to eradicate mention of body parts and biological functions which are taboo in Russian (e.g. anything scatological or sexual; Raxtilin *pers. comm.*). Apparently it was also subject to grammatical standardisation, as regional features and difficult-to-translate grammatical particles are absent or rare. The book was not intended as an academic source, although it has been used as such.

The scholar Inenlikej (a native speaker of Chukchi) has published a number of works, particularly in the areas of adverbs and the lexicon (e.g. Inenlikej 1965a-b, 1966a-d, 1969, 1974a-b, 1976, 1978; Inenlikej & Nedjalkov 1966, 1967, 1972, 1981). These works are all in Russian, and many of them are difficult to find outside specialist Russian libraries. Inenlikej was also co-author of a variety of works (Moll & Inenlikej 1957; Nedjalkov & Inenlikej 1983; Nedjalkov, Inenlikej & Raxtilin 1988).

A number of non-Chukchi scholars also collaborated with native speakers working or studying in Leningrad/St Petersburg to produce theoretical papers which nevertheless also present some new descriptive materials (e.g. Comrie 1979, 1981; Nedjalkov 1977, 1979, 1994). Two theoretically-updated grammatical sketches of Chukchi have recently appeared, one in English (Muravyova 1998), and one in Russian (Volodin & Skorik 1996); both take Skorik's grammar (Skorik 1961, 1977) as their main source of data. Other descriptive work on aspects of Chukchi (based on published data sources) includes Spencer (1995). Koptjevskaja-Tamm (1995), $Mu \gg 70va$ (1989). Areal/typological and comparative studies have been published by Comrie (Comrie 1980a, 1980b), de Reuse (1994b), Fortescue (Fortescue 1998) and Muravyova (1976, 1986).

<u>*L</u> Dialectal variation</u>*

2.1 Introduction

The Telgep variety of Chukchi is distinguishable from other varieties of Chukchi on the basis of a number of formal characteristics discussed in §2.4. The term Telgep is used by Chukchis to refer to people originating from an area extending from somewhat north of the Anadyr' estuary, to an area several hundred kilometres south (just north of Xatyrka) and inland to the lands surrounding the river Velikaja (see Map 2.). The name comes from the Telgep river, which meets the sea in the middle of the territory. Geographical variation within Chukchi is slight, with differences between varieties mostly found in the lexicon. There are also a few morphological differences in the verbal agreement system and in other areas of the grainmar. To put this into perspective, even the other 'languages' of the group that Chukchi belongs to (Koryak, Kerek, Alutor; sometimes called 'Chukotian' or 'Koryako-Chukotian') show a fairly small degree of variation, to the extent that they might be considered dialects of a single language if cultural and historical differences did not intervene (§1.2; Comrie 1981:240). One variety of Chukchi does stand distinct from all others and is profitably considered a different dialect; the 'Standard Chukchi' (or 'Literary Chukchi', as it is usually called in Russian) described and codified by Skorik (1961-1977) differs considerably in its details from spoken varieties of Chukchi; there is more discussion of this in §2.5.

This chapter begins with a comparison of the various Chukotian languages (§2.2) to show where Chukchi is situated within its family (Itelmen is not considered, see §1.2). In §2.3 there is a discussion and description of the differences between the variety of Chukchi spoken by men and that spoken by women. This is an area of Chukchi which is very interesting from a sociolinguistic and also diachronic point of view, but to date there has not even been an adequate description of the phenomenon. Section §2.4 is a description of the particular variety of Chukchi which is the object of this work, with material showing how this variety differs from other varieties of Chukchi, particularly those which have already been the object of study. Finally, in what is something of a warning to the linguist, §2.5 contains a discussion of the variety of Chukchi dealt with by Skorik (1961-1977). This variety is an artificial literary dialect which, due to the availability of the

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published grammar, is commonly used as a data source for theoretical linguistic research. Some of my research on spoken Chukchi suggests that caution should be exercised if conclusion: about natural language are to be made on the basis of this data.

2.2 Linguistic comparison

The linguistic literature mentions a large number of Chukchi dialects, although very little work has been done on the linguistic characteristics of these varieties. Some of them seem likely to be no more than a combination of characteristic pronunciation ('accent') and a few regional lexical differences. In a series of notes Moll and Inenlikej (1957) describe some differences in verb inflectional paradigms between the Chukchi of Xatyrka (in the south-east of Chukotka, bordering the Koryak Autonomous Okrug) and other more northerly varieties. I have observed these same differences in the dialect of Chukchi speakers from the south-west, around the town of Markovo (Korav'e pers. comm.).

Linguistic comparison shows the separation of the languages/dialects of the Chukotian group is relatively recent. The languages and dialects can be subgrouped differently according to which linguistic parameter is used, and different selection of parameters can yield different results (e.g. cognate counts in basic vocabulary vs. phonological comparison). Matters are confused by the (nonnative) names given to the dialects; 'Koryak' is used interchangeably for the standardised variety of Koryak (also called 'Chavchuv Koryak'), and along with geographical terms as part of the names of a 'residual category' of Chukotian languages/varieties which don't have their own name (e.g. Apuka Koryak, Itkan Koryak, Kamenskij Koryak, Parenskij Koryak, Karaginskij Koryak and Palana Koryak¹).

Good wordlists are available for a number of the dialects/languages of the Chukotian group. Much of the published data is due to the efforts of Alevtina Nikolaeva Žukova, whose research on Koryak and Alutor dialects spans many years. The following sample (selected for geographical coverage and adequacy of data) is representative for the purposes of the comparison in §2.3.2:

Al Alutor

KoPI Palana Koryak (also considered a dialect of Alutor; Skorik 1968)

ChW Women's Chukchi

- ChM Men's Chukchi
- KoCh Chavchuv Koryak
- Ke Kerek

The key sources are Žukova 1980 [KoPI, KoCh], Žukova 1967 [KoCh], Stebnickij 1994 [KoCh, Al], Skorik 1968 [Ke], Žukova 1968 [KoCh, Al], Muravyova 1979 [Al].

Some of these sources also contain ChM materials, but none contain ChW. Since the precise origins of the Chukchi materials are generally not stated, and since they occasionally vary somewhat from my own, I only use Telgep Chukchi data from my own fieldnotes for comparison.

2.3 Gender dialects

The existence of a women's Chukchi somehow different from men's Chukchi is wellknown in the literature. What is perhaps surprising is that there has never been an adequate description of women's Chukchi. In the acknowledgments to the two volumes of Skorik's grammar (1961:14 and 1977:7) there are twelve Chukchis thanked by name; all are male. Bogoras published two small samples of women's Chukchi in his *Chukchee Mythology* (1910:144.145), and another five in his (sadly inaccessible) *Materialy po Izučeniju čukotskogo jazyka… [Materials for the study of Chukchi]* (1900:121-126). In his grammar Bogoras has a section entitled 'Pronunciation of Men and Women' (Bogoras 1922:665-666). In this section he states:

The pronunciation of the women differs from that of the men. Women generally substitute δ for δ and r, particularly after weak vowels. They also substitute δ for rk and δh . The sounds δ and r are quite frequent; so that the speech of women, with its ever-recurring δ , sounds quite peculiar, and is not easily understood by an inexperienced ear. Women are quite able to pronounce δ and r, and when quoting the words of a man,—as, for instance, in tales,—use these sounds. In ordinary conversation, however, the pronunciation of men is considered as unbecoming a woman. (Bogoras 1922;665)

He gives four single word examples showing these correspondences (the examples are selected not to include examples of words without the alternation; see §2.3.2), and then has another paragraph about the differential use of intervocalic consonant dropping by men and women. He states that this is most common in the Kolyma district, but with one exception, I did not observe any definite examples of differential use of consonant dropping in the Anadyr' Region (further discussed §2.3.3).

Skorik's statements about women's Chukchi are no more extensive and no more accurate. In a paragraph at the end of his extended discussion of (male speakers') phonology he mentions that

Apart from the consonants listed, there is also in Chukchi an affricate, similar to Russian c but somewhat softened [i.e. palatalised], which is used in the women's pronunciation only. This affricate usually corresponds to the consonant r and c of male pronunciation, moreover it assimilates a following consonant k, for example the male

¹ Skorik (1968) groups Karaginskij Koryak and Palana Koryak with Alutor; see the evidence for shared phonological changes between Al and KoPl in fig. 2.5.

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pronunciations— [reqərkən?] 'what is s/he doing?', [rərkə] 'walrus'; female pronunciation—[ceqəccən?], [cəccə].

[Skorik 1961:33; my translation and transliteration]

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In §§2.3.2-3.3 it will be shown that women's Chukchi differs from men's Chukchi in a much more complex manner than has previously been recognised. The two main phonological differences between men's and women's Chukchi are the r~c alternation (§2.3.2) and intervocalic consonant elision (§2.3.3). Earlier characterisations have generally either claimed that the difference is merely substitution of one pronunciation for another, or if it is recognised that this 'substitution' does not always occur, then the variation is treated as irregular. In fact, the correspondences between women's and men's Chukchi are synchronically unpredictable, but can be accounted for in the context of greater Koryako-Chukotian dialectology. There is no evidence that the women's and men's dialect distinction occurs differently in different regions of Chukotka. although this hasn't been systematically examined.

Because the phonological correspondences between women's and men's Chukchi are synchronically unpredictable, it makes sense to talk of these varieties as *gender dialects*. Gender dialects are a rare but geographically dispersed phenomenon, attested in diverse languages such as Gros Ventre (Flannery 1946, Taylor 1982), Island Carib (Hoff 1994), Koasati (Haas 1944; this is debated, see also Kimball 1987, 1990 and Saville-Troike Vence Pirahã (Everett 1986:317), Yana (Sapir 1963 [1929]) and Yanyuwa (Bradley EVence

Women's Chukchi has never been considered within the framework of general Chukotian diale tology. The superficial accounts of women's language hitherto published make it difficult to see that there is anything of interest to discover. In fact, women's Chukchi and men's Chukchi can be shown to be related to different geographical dialects, with women's Chukchi showing surprising similarities to Alutor and the Palana Koryak dialect. Note that no other language or dialect in the family has this distinction between men's and women's language (a tiny lexical exception exists in Palana Koryak; see §2.4); it seems to be an innovation of the period after Chukchi separated from all its sister languages (possibly only a few hundred years).

2.3.1 Sociolinguistic status

Choice of which gender dialect of Chukchi to use is determined by the sex of the speaker. There is no absolute prohibition against using the other dialect. Quoted speech can be given in the gender dialect appropriate to the quoted person, and people can give examples to correct the speech of someone of the opposite sex if the wrong gender dialect is accidentally used. As will be shown below, although similar, the exact form of each gender dialect is not predictable from knowledge of the other. Thus, speakers must simply remember the alternate forms for all the words which are different between the two dialects. In traditional society

shamanistic power was often linked with partial or complete change of sex/gender. As a highly salient social indicator of gender, adoption of the opposite gender dialect was frequent among shamans and their patients (§1.1.2). Women and men are aware of the differences in their language, and will freely pronounce words like a person of the other sex in explanation or corrections (to a language learner) or for dramatic or humorous effect in quoted dialogue. In stories gender dialect is treated as one of many distinctive features of an individuai's pronunciation which can be imitated or ignored according to the storyteller's preference. A storyteller will not generally adopt the gender dialect of a quoted character of the opposite sex unless other features of their speech are imitated too—thus, the speech a female dog is quoted (in a fairytale) using both woman's dialect and high-pitch singsong intonation like the yelping of a dog.

When the Soviet process of 'modernisation' came to Chukotka, shamanism was violently suppressed and the use of women's dialect discouraged. Language standardisation was based entirely on men's dialect. In the 1990s educated women seem to feel obscurely guilty for using women's dialect, but they usually use it all the same. Chukchi language radio and television broadcasting is all carried out in men's dialect. Female announcers use men's dialect on air, but women's dialect in private. Only in public speech in front of strangers do women use men's dialect. Although men are also bidialectal, they are very rarely called upon to produce women's dialect, and for men the traditional usage patterns of gender dialect have not changed.

2.3.2 The r-c alternation

In a number of synchronically unpredictable contexts an \mathbf{r} in the men's dialect corresponds to \mathbf{c} in the women's dialect (see §3.7.3 for transcription). Some typical example of the alternation are shown in fig. 2.1.

FIGURE 2.1. Chuk	chi words: E	Differen	t pronun	ciation ² .
			~	

	mosquito	polar fox	leg hide
female speaker	mcen	ceqokalyən	pancat
male speaker	mren	reqokalyən	panrat

However, there are other contexts where there is no contrast; women's c corresponds to men's c, and women's r corresponds to men's r:

² All the data in this section comes from Telqep Chukchi; non-local Chukchi speaking women in Anadyr' all used the women's dialect. Their women's dialect did not seem to differ in any way from that of the local Teqep speaking women, although as non-local women were generally in Anadyr' for work purposes, and as such were more educated, they would switch between women's and men's dialect in a non-traditional manner (§2.3.1).

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FIGURE 2.2.	Chukch i wo	ords: Same	pronunciation.	
			1	

	teapot	trap	she went home	reindeer	
W speaker	cajkok	utkuc?ən	raytəy?e	qoraŋə	
M speaker	cajkok	utkuc?ən	raytəy?e	qoraŋə	J

These two correspondence sets (words with the c-r alternation and those without) are found throughout the native lexicon, but the c-r alternation is never found in loanwords.

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Figure 2.2.3 has some selected cognate sets to show that a set of proto-Koryako-Chukotian coronals can clearly be reconstructed³. Chukchi words with the c-r alternation are not included in this set. Chukchi words with the c-r alternation pattern differently, as shown in figure 2.2.4.

FIGURE 2.3. The proto-Koryako-Chukotian coronals *t, *r, *c, *j

kətep

kəcipa-ŋa

	*j tongue	*r house4	partridge	<u></u>	1pl/du pron.
Al KoPl ChW OM EoCh	jiljil jelə-lŋən jələjəl jələjəl jiljil	га- га- га- га ја-	ray- rew-, rewən rewəm- rewəm- jewjew	n-	mur- mur- mur- mur- muj
Ke ⁵			jawjaw	<u></u>	
	*t stranger	wild sheep	*c sister	kidney	
Al KoPl ChW ChM	tanyətan tanyətan tanyətan tanyətan	ktipa- kteppa kətipe- kətipe-	sakəyit cakəyet cakəyet sakəyet	ksimma kcimme kəcime- kəsime-	

³ The reconstructions presented below are my own; they support the (much more detailed) analysis of the Chukotko-Kamchatkan proto-coronals in Muravyova's unpublished dissertation (Muravyova 1979). Muravyova did not, however, look at the women's variety of Chukchi. The cognate sets given are representative, and are by no means exhaustive, as many more similar examples can be found.

cakəyet

kəcim

⁴ The form given here is the minimal stem used in incorporation and compounding. As an independent noun these stems are reduplicated (see §6.2.1). In Chukchi there has been an additional process of dissimilation, by which reduplicated ***ra-ra-** has the form jara-.

⁵ My access to Kerek sources has been very limited; absence of a form in the correspondence sets should not be taken to indicate the a cognate does or doesn't exist.

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Apart from these correspondences there is yet another set, shown below in figure 2.2.4. Although none of the phonemes in the various contemporary reflexes of the Koryako-Chukotian languages are different from the reflexes of the proto-Koryako-Chukotian coronals shown above, their distribution shows that proto-Koryako-Chukotian includes another consonant.

FIGURE 2.4. Alternations: ChW c corresponds to ChM r

	future	what?	walrus	polar fox	
Al	te-	teq-	tətka	tiquk	
KoPl	te-	teq-	tətka	tiquk	
ChW	ce-	ceq-	Cacca	ceqoka-Iyən	
ChM	ге-	req-	rərkə	reqoka-lyən	
KoCh	je-	jeq-	jəjka	jiquk`	
Ke	ja-	jaq-	ika-ŋa	5.	
	mosquito	leg hide	forehead	3pl pron. ⁶	
AI	mtan	panta-	kəttil	ətti	
KoPl	mtenne	panta-	(kərrel) ⁷	?əttu	
ChW	mcen	panca-	kəccel	əcci	
ChM	mren	panra-	kətrel	ətri	
KoCh	məjen	panjia-	kəccel	əcci	
Ke			kəttil	icci	

Muravjova (1979) demonstrates the existence of this proto-phoneme (which she calls *d, a convention I will follow) for the Koryako-Chukotia: family, but did not do any comparison of women's Chukchi. The summary of these cognate sets in figure 2.2.5 shows that there is an isogloss in the Koryako-Chukotian languages between those where *d has the modern reflexes r (ChM) or j (from the phonological collapse of *d and *r; KoCh, Ke?) and those where it has the modern reflex t (Al, KoPl).

FIGURE 2.5. Summary of cognate sets

		· · · · · · · · · · · · · · · · · · ·			
	<u>*t</u>	*r	*d	*c	*j
Al	t	r	t	s	j
KoP!	t	r	t	с	j
ChW	t	r	с	С	j
ChM	t	r	r	S	j
KoCh	t	j	j	С	j
Ke ⁸		ī	-		5

⁶ Note the assimilations: ChW ***rk** \rightarrow cc, ChM ***rr** \rightarrow tr. There also seems to be palatalisation/assimilation in KoCh ***tj** \rightarrow cc (in this figure) and ***nc** \rightarrow yy (see fig. 2.4), but for the purposes of this thesis I have not closely examined the phonology of Chukchi's sister languages/dialects. ⁷ This form is unexpected.

28.

KoCh

Ke

tanŋətan

30.

đ

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Women's Chukchi has an anomalous position in this schema, as it looks more similar to the Al-KoPl cluster than the ChM-KoCh cluster. This opens the way to a hypothesis that Chukchi gender dialect distinctions have come about as a result of influences on the language of members of one gender by a geographical dialect (or dialects) similar to Alutor and Palana Koryak. Such a situation is not implausible (discussed below).

HYPOTHESIS: Chukchi split into two gender dialects as a result of substrate influence on the language of either men or women by another Koryako-Chukotian language/dialect.

The hypothesis can be developed in two ways;

- i) Men's Chukchi diverged from proto-Chukchi, perhaps through substrate influence from dialects from the KoCh-Ke cluster
- ii) Women's Chukchi diverged from proto-Chukchi, perhaps through substrate influence from dialects from the Al-KoPl cluster

Of these, the latter scenario is more likely from an ethnographical and (pre-)historical viewpoint. In Chukchi society women travel to live at the encampments of their husbands; women travelling across an isogloss boundary for marriage could bring a set of characteristic mispronunciations through interference from their native dialect. The mispronunciations expected would be in exactly those words which contain reflexes of *d, since there is little variability in the reflexes of other consonants. In Chukchi society, where male and female social roles are very separate, it is possible to imagine a situation where the characteristic mispronunciations of some women becomes reinforced as a social marker of feminity.

This scenario is sociolinguistically plausible, but the proposed path of historical linguistic development is problematic. If dialects of the KoPl-Al cluster were the source of this feature of Chukchi women's dialect it would be expected that the phonological collapse of *d in women's Chukchi would be to modern t, not modern c (see fig. 2.2.5). Although *d has collapsed with some other phoneme in all contemporary languages, there is no language in the sample set apart from women's Chukchi which has the collapse *d \rightarrow c (they are all either *d \rightarrow r or *d \rightarrow t).

It is possible that women's Chukchi could have been produced by substrate influence from yet another, unattested, Koryako-Chukotian language, which either preserved the three-way split *r/*d/*c longer than the other members of the family, or which collapsed *d and *c. Although the invention of extinct, unattested languages as motivating factors for linguistic change may often be no more than methodological sleight of hand, in this case there are outside factors which could

support it. Archaeological evidence ascribes the beginning of reindeer herding in the region to Chukchi innovation in the fifteenth 'century. Prior to this the ancestors of the Koryako-Chukotian speaking peoples lived as hunter-gatherers along the rivers and coasts. Since the beginning of reindeer herding the population density has dramatically increased, and the Chukchis have expanded their range a long way to the west and south. It is quite likely that they absorbed speakers of other Koryako-Chukotian languages during this expansion.

2.3.3 Intervocalic consonant elision

In his brief discussion of the differences between women's and men's pronunciation Bogoras mentions that 'the men, particularly of the Kolyma district, drop intervocalic consonants, principally n and t' (Bogoras 1922:665). This elision is reported to work in the same manner as the general Chukchi phonological rule which allows sporadic dropping of intervocalic approximants (accompanied by vowel assimilation, i.e. $V_1GV_2 \rightarrow V_2V_2$; see §3.2.4). Bogoras further adds that men of the maritime Chukchi use both the shorter forms (unclear from context whether he means just the forms with dropped n and t, or all forms with dropped intervocalic consonants) and the longer ones (no dropping), whereas women only use the longer.

Telqep Chukchis do not correspond to either of these groups, and I have not observed any difference in the use of dropped intervocalic glides; both men and women do it sporadically, more often with some words than others. It is not surprising, if it is really mostly a feature of Kolyma Chukchi, that the dropping of intervocalic n and t was hardly observed. In my data only one very elderly male speaker dropped intervocalic n at all, and he only did it sporadically, and apparently only in verbal suffixes of the form ine-VH:

ənqaat < ənqenat [he091] nəpelatəŋŋoqaat < nəpelatəŋoqenat [he094] n?əwalomərkaat < n?əwalomərkənat [he106] yetcəleet < yetcəlinet [he115]

There were no examples, in his speech or others', of the dropping of intervocalic t. From the limited amount of data it is unclear whether these observations are significant.

2.3.4 Lexical variation

Telqep Chukchi has a gender distinction in the words for 'yes'; ii for women, and eej for men. This lexical distinction only exists in southern Chukchi, although interestingly exactly the same distinction does occur in some of the Koryako-Chukotian dialects further to the south (see §2.4).

There is also a lexical consonant alternation between **r** and **t** at the end of certain adverbs and particles. This alternation shows strong statistical tendencies distinguishing men's and women's dialect, with women more frequently using the

^{\$} I have too little data to form good hypotheses about Kerek.

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t-final form, and men more frequently using the r-final form, but with men and women usually using both for the least some of the time.

FIGURE 2.6. Adverbs and particles with final r-t alternation.

		Women	Men		Women	Men
like, um	qənur	1 (8%)	51 (80%)	qənut	12 (92%)	13 (20%)
and so	ewər	1 (2%)	21 (84%)	ewət	43 (98%)	4 (16%)
finally	qənwer	13 (48%)	11 (69%)	qənwet	14 (52%)	5 (31%)
now	iyər	0 (0%)	6 (100%)	iyət	18 (100%)	0 (0%)
suddenly	luur	6 (32%)	0 (n/a)	luut	13 (68%)	0 (n/a)
first	janor	0 (0%)	4 (67%)	janot	12 (100%)	2 (33%)
maybe	weler	0 (0%)	2 (50%)	welet	2 (100%)	2 (50%)
	TOTAL r	21 (16%)	95 (79%)	TOTAL t	114 (84%)	26 (21%)

The source of this alternation is unclear, although a coherent historical account can be made that links it to the $\mathbf{r} - \mathbf{c}$ alternation of men's and women's dialect. Note that t is the word final allophone of /c/ as well as /t/, so in word-final position the $\mathbf{r} - \mathbf{c}$ alternation is actually a $\mathbf{r} + \mathbf{t} + \mathbf{t}$ alternation (§3.3.2).

It cannot however be claimed that the final t of these adverbs is synchronically an example of this alternation, as if it were the t-final variant would not be expected to occur in men's dialect at all. Also, it can be shown that synchronically the final t in these forms is phonemically /t/ not /c/. There are morphologically complex forms of these adverbs with suffixes which retain the t word-internally (e.g. the relational form iyat-kin ones from now, contemporary ones); the consonant t is the word-internal reflex of the phoneme /t/, but the word internal reflex of /c/ is c.

When Chukchi native speakers talk about language⁹, the linguistic feature which distinguishes women's dialect from men's is not the relative frequent occurrence of the phoneme /c/, but rather it is the relatively frequent occurrence of the sound c. Thus, despite the statistical preferences for women to use the t-final forms and men use the r-final forms, it is possible that the t-final forms of these adverbs may not be considered a characteristic women's pronunciation.

2.4 Geographical variation within Chukchi

My main interest is to try to produce a synchronically reliable description of a single variety of Chukchi, and so I have worked mostly with people born and raised in the Anadyr' district. I can't make definitive statements about geographical variation outside of the areas visited, and my observations of different speech practices by natives of outside areas occurred as the opportunity arose rather than systematically.

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The phonological variation within Chukchi is not enough to obscure communication for the most part, although characteristic rapid speech of northerners can be problematic to southerners like Telqeps. There are a few systematic differences. The main difference is in the realisation of the men's c phoneme, which seems to vary between alveolar fricative and alveo-palatal affricate. There is evidence that there is regional variation in the realisation of other phonemes. For instance, speakers from the Kolyma district in the north-west pronounce the personal name forming suffix -wji as -wyi. Likewise, Standard Chukchi inchoative suffix -ŋgo is in Telqep Chukchi more often pronounced -myo. In this case Standard Chukchi seems to be innovative, as the cognate verb stem *to begin* has the form moo-, which can be derived from mayo- through intervocalic approximant deletion/vowel assimilation process (§3.2.4). Telqep Chukchi has both mayo- and moo-.

A lot of the geographical variation within Chukchi is lexical. Standard Chukchi reflects the lexicon of the far north east of Chukotka. Many lexical differences are found in the area of material culture. For instance, the standard Chukchi word kupre-n *net* is not used in Telqep Chukchi: Telqeps use the word yige.nyig (stem nyige is reduplicated to form the absolutive). Another such example is the word ware-t (singular ware-ryan), which is used around the Markovo region to mean the main support tripod of a jaraga (traditional skin tent). In Telqep Chukchi the main supports of a jaraga are called tewri-t, while the word ware-t refers to the subsidiary tripods erected around the edge.

Another significant difference is found in different patterns of lexicalisation. For example, the Standard Chukchi verb stem re- *enter* is equivalent to recqiw- in Telqep Chukchi. The Telqep form seems to be clearly segmentable as re-cqiw-, as -cqiw is a purposive derivational suffix common in both varieties (§14.6.2). However, there is no evidence that -cqiw is segmented by Telqep speakers, whe never use the stem re- without it. While the segmentation of the Telqep form into two morphemes seems to be diachronically valid, in the contemporary language it must be considered a lexicalised form.

The ii/eej distinction found in Telqep Chukchi between women's and men's word for 'yes' exists in Telqep Chukchi, but not in the Chukchi of the north, where ii is used by all. This could perhaps be evidence that gender dialect differences do indeed originate from southern Chukchi. It is suggestive that the ii/eej distinction is also found in Palana Koryak (Alec King *pers. comm.*).

A distinctive feature of the Telqep variety of Chukchi is a difference in the first and second person singular free absolutive personal pronouns.

Telqep	Standard
Yəmo	γəm
Yəto	Yət

⁹ Literate Chukchi speakers are aware of instances of allomorphy because of spelling rules in the Russian-based orthography (see §3.7.1).

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The Telqep forms are similar to the pronouns from a number of Koryak dialects (for example, Zhukova transcribes the 1st person absolutive pronoun in Chavchuv Koryak variously as yammo, yamo and ymo; Zhukova 1988:9).

Moll and Inenlikej (1957:176-185) reports that the Chukchi of Xatyrka (on the southern extreme of the Chukotka coast) has slightly different patterns of verbal inflection than other varieties. The difference relates to the choice of inverse alignment marker in certain verbal paradigms. Where most varieties of Chukchi have a fused suffix indicating inverse alignment and that the object is second person plural, Xatyrka Chukchi uses an unfused inverse alignment prefix (inverse alignment markers are discussed in §10.2.2). The following figure shows the verb 'you left us' in Telqep Chukchi and Xatyrka Chukchi:

The inflected verb form you left us

Telqep Chukchi: pela-tko-y²e ieave-INV.1pl-TH Xatyrka Chukchi: na-pela-mək INV-leave-1pl

While Telqep Chukchi does not share this difference with Xatyrka Chukchi, Chukchis from further inland (e.g. around Vaegi, T. Korav'e *pers. comm.*) also have this non-standard alignment pattern. The Xatyrka/Markovo alignment pattern is identical to Koryak, which, along with what is known about ethnic history, makes this seem likely to be substrate influence.

2.5 Standard Chukchi

The language policies of the Soviet Union demanded that each recognised language have a standard form used for education and publishing. This led to the failure of native language education in areas with large dialect differentiation, as local children were unable to operate in the language that was being used for teaching (Stebnickij describes this for Koryak; 1994). Chukchi has less dialect differentiation, and the creating of a normalised 'standard' was more realistic. Standard Chukchi (in Russian *Literaturnij čukotskij jazyk*, 'The Chukchi Literary Language') was based on the variety spoken by the sedentary Chukchi-Eskimo population of the north-eastern coastal village of Uelen. The standard language was exhaustively defined by Skorik in his two volume grammar (Skorik 1961, 1977). The variety is passively understood, but not actively produced except by the highly educated in formal contexts, such as radio broadcasts, political speeches, and (to an ever decreasing amount) education. People who have an active command of standard Chukchi are mostly language professionals, such as teachers and indigeneus media workers, and Soviet educated indigenous administrators.

Standard Chukchi differs from colloquial varieties in a number of ways. Most obviously, the Chukchi women's dialect has been abolished by fiat. Most people now feel that there is something improper about using women's Chukchi in formal

contexts. Skorik does not acknowledge different degrees of morphological productivity beyond non-productive derivational morphology and fully productive inflectional morphology. This has a negative influence on colloquial Chukchi data gathering since tertiary educated speakers treat low productivity morphology, such as the antipassive, as if it were fully productive. The worst offenders in this respect were unfortunately schoolteachers of Chukchi, who had been taught the standard linguistic analysis in teachers' college. Chukchi schoolteachers were unusual in that they were able to segment morphemes. This sometimes had bizarre effects when the standard analysis did not match what they recognised as the meaning. For example, the standard grammar does not include applicatives, which are formed by a morpheme which additionally makes antipassives, inverse alignment with first person singular object, and a number of other transitivity changing functions¹⁰. When asked for a word-by-word translation speakers would frequently try to revise their free translation to one which included some kind of first person participant. Of course, the knowledge that these speakers have of speken Chukchi is not in any way defective, and the confusion is merely a result of intuitive native speaker knowledge of spoken Chukchi competing with formal education in Standard Chukchi. If in elicitation sessions I presented examples from Skorik's grammar as my own hypothetical constructs, my consultants, who understood that I was interested in spoken Chukchi, would often reject them. Some speakers became very uncomfortable to discover that the source of data that they rejected as ungrammatical was Skorik's grammar, and rapidly revised their judgement. Such grammaticality judgements are obviously not very revealing for descriptive purposes.

My description of the functions of morphosyntactic elements such as reciprocals and the antipassive differs in many respects from those in the literature. It is difficult to determine whether this truly is the result of linguistic variation within Chukchi. It is not clear that other descriptive materials dealing with these issues are methodologically comparable, in that they seem to be based on elicited or nonnative speaker data rather that spontaneous text. For further discussion see the relevant sections of this grammar, especially reciprocal (§11.7.1), antipassive (§11.6.2), incorporation (§12).

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¹⁰ It is conceivable that applicatives do not exist in the northern Chukchi dialects that Standard Chukchi is based on; however native speakers of a more Standard-like dialect do understand applicatives in Telqep Chukchi without difficulty.

3

Phonology & Morphophonology

3.1 Introduction

This sketch of the phonology and the morphophonology of the Telqep variety of Chukchi describes the phonological and morphological alternations found in the data, and makes clear the principles of transcription, some of which follow traditions specific to the study of Chukchi more than general linguistic practice. More theoretical accounts of Chukchi morphology and phonology are found in Krause 1979, Kenstowicz 1986, Spencer 1995. While phonological description cannot be theory neutral, the theoretical basis of this sketch is intended to be as uncontroversial as possible, using aspects of well-known phonological theories chosen for both their ready adaptability to the descriptive needs of Chukchi, and for their transparency and ease of translatability into other theoretical frameworks. These notions include the classical phoneme, elements phonological feature theory, and the prosodic phoneme/autosegment as described within autosegmental phonology (e.g. Goldsmith 1990).

This chapter starts with a description of the general structure of a word (§3.2) in order to define the domains of the prosodic phonemes (§3.4.1-2) and to give the conditions for the allomorphic realisations of the segemental phonemes (§3.0). Chukchi has 13 segmental consonant phonemes: /p t k q m n g t s w c j γ /. The phonological system includes two prosodic phonemes; a word prosody of VOWEL HARMONY (§3.4.1), and a syllable prosody of GLOTTALISATION (sometimes counted as a 14th consonant; §3.4.2). There are three underlying vowels /*i *e *u/ which, with vowel harmony, are realised as five surface vowels: /'i e a o u/. A recent phonological change (not attested in the sister languages) has produced a distinction between long and short vowels, although this has a relatively low functional load.

There are many phonological processes in which segments assimilate or dissimilate on morpheme or word boundaries. As discussed in §3.3.5, phonological systems used by men and women are somewhat different (see also §2.3).

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After the sketch of the phonological system there is a discussion of three orthographies for Chukchi,

- i) the official Cyrillic orthography used in education and the media, as well as by Soviet scholars (§3.7.1)
- ii) the non-phonemic latinate orthography used by Bogoras in his seminal English language publications (§3.7.2)
- iii) the modified IPA orthography devised for use in this work-this differs in only minor details from the various IPA transcriptions of Chukchi used in contemporary linguistic publications (§3.7.3)

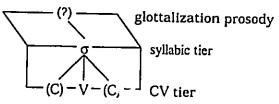
3.2 Word formation

Vowel harmony provides a powerful diagnostic for determining the phonological boundaries of the word in Chukchi (see §3.4.1). Instances in which the grammatical word does not correspond to the phonological word are limited; Chukchi has one clitic! (§4.8.9), and there are a couple of analytic structures which have several phonological words acting syntactically like a single grammatical word (see §4.1). The phonetic forms of Chukchi words can be generated by application of rules to the underlying forms of sequences of morphemes. Apart from segmental phonemes, underlying forms may have specification for prosodies (§3.4) and syllabification. In this chapter I will use the conventions of autosegmental phonology to denote phonological form and phonological rules (Goldsmith 1990; for another descriptive grammar using a broadly autosegmental approach to phonological description see Foley 1991:37). In the grammatical description proper (next chapter onwards) autosegmental notation will generally be too unwieldy for a working orthography, so I will use the mixed phonemic and phonetic notation described in §3.7.3.

3.2.1 CV skeleton

Chukchi words have strictly circumscribed phonotactics. The surface form of a word consists of any number of syllables of the type $\sigma = (C)V(C)$. Each of these syllables may or may not have the glottalisation prosody (§3.4.2). It is possible for the underlying V not to be specified in the underlying form, in which case it is filled in by an epenthetic schwa.

SYLLABLE

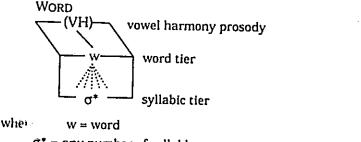


where $\sigma = syllable$

C = /ptkqmnnlcwrjy/(see §3.0.1-4)

V = underlying /i u e/ (§3.4.1) or unspecified (schwa epenthesis §3.2.2) ? = glottalisation prosody (§3.4.2)

This syllable pattern can be repeated any number of times to form a word.



 σ^* = any number of syllables

VH = vowel harmony prosody (see §3.4.1)

It is important to note that the underlying forms of words may be phonologically unrealisable, and there is no claim that they have psychological reality.

3.2.2 Syllabification and epenthesis

An underlying sequence of consonants and vowels needs to be divided into syllables to determine the positions of epenthetic vowels and produce a well-formed word. Syllabification proceeds according to the association principle:

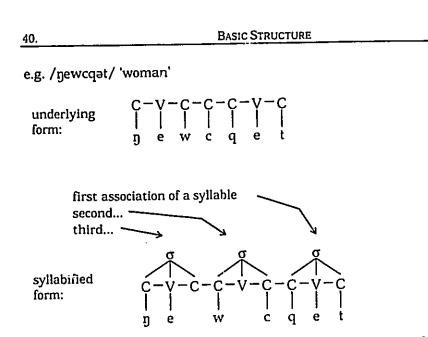
ASSOCIATION PRINCIPLE

Syllable templates are associated with the underlying CV skeleton from right to left. Each syllable (maximally CVC) associates with as many skeletal elements as possible. Onsets of syllables (C1 of C_1VC_2) are always filled unless the word has an initial vowel.

The association principle can leave some skeletal elements unassociated with phonetic segments or syllables (for an example of the latter see §3.2.3).

38.

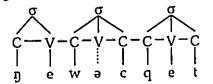
¹ The only indisputable clitic found in Chukchi is the emphatic particle =²m. Phonologically this consists of the segmental phoneme /m/ and the prosodic phoneme of glottalisation (§ ' 4.2); the latter is a syllable prostdy, which can be shown to combine with the preceding word (examples of how this works are given in §4.8.9). Postpositions might marginally be analysed as clitics as well (§4.9).



Once the syllables are associated with the underlying form, unspecified consonants in the skeleton are deleted and unspecified vowels are linked to a schwa (EPENTHESIS).

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e.g.

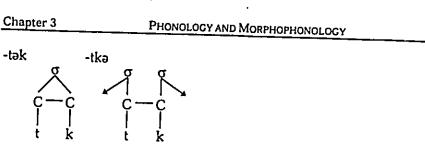


Most schwas in Chukchi can be accounted for in this way (i.e. not present underlyingly, but inserted by rule). Some, however, are unpredictable, and so have to be made part of the underlying form: e.g., the minimal pair -tək and -tko (both are person-number suffixes in the verb paradigm; see §10.2). There are several formal possibilities for dealing with this:

- i) the schwa could be made part of the underlying form as an unspecified vowel present in the underlying CV skeleton.
- ii) syllabification of the underlying form could be specified

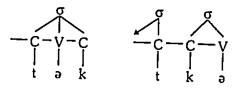
Of these the latter may be preferable, as it allows all instances of schwa to be the product of the same insertion rule rather that having a small minority that have to be treated as systematic phonemes (which, unlike the other phonemic underlying vowels /i, e, u/, would have no vowel harmony variant).

Following this approach, the suffixes -tak and -tka in the examples above could be specified as being an underlying monosyllable and an underlying disyllable respectively:



41.

The syllabification process generates and fills other slots in the the CV skeleton



Other examples have unpredictable syllabification/epenthesis at the beginning of the word, e.g. /təlan/ path and /ətlon/ 3sg personal pronoun. Both these forms have the underlying CV structure *CCVC. The predicted structure is CaCVC, since consonantal onsets are preferred (see §3.5 for examples of regular word-initial/word-internal allomorphy with the alternation #CaC- - -CC). It is difficult to see how allowing specification of underlying syllabification could account for the differences, unless the notion of 'specification of underlying syllabification' is taken to include the possibility of specifying a zero-onset—however, the simplicity of the syllabification hypothesis was its most attractive feature, it may be better to leave the manner unresolved.

When a word underlyingly begins $C_1C_2V_{..}$ and C_2 is one of the phonemes /c r ł/ then the process of schwa epenthesis is optional, for example:

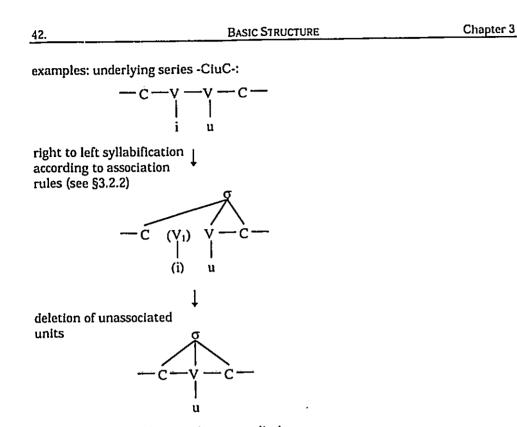
/pəcaqəłyən/~/pcaqəłyən/ bird /məren/~/mren/ mosquito /pəłekət/~/płekət/ shoes

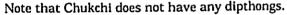
Literate Chukchis only intermittently write schwa in these positions.

3.2.3 Underlying sequences of vowels

The first vowel of a pair of concurrent underlying vowels is regularly deleted: $-V_1 \text{-} V_2 \text{-} \rightarrow \text{-} V_2 \text{-}$

Note that V_2 cannot be ε schwa, since schwas are not present in the underlying structure except as an unspecified V slot. If a vowel-final prefix is added to a schwa initial stem, the schwa is deleted.





3.2.4 Vowel-approximant assimilation (long vowels)

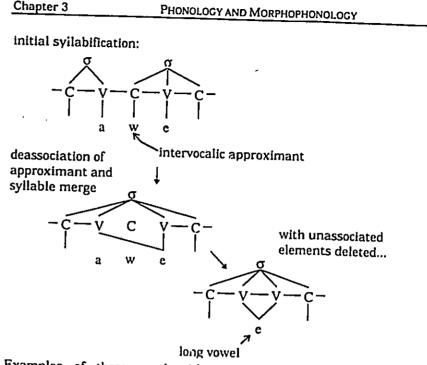
There exist a number of homonym pairs of the type /?oracek/ ~ /?aacek/ 'youth, lad'. The general form of this alternation is:

-V1CV2- -- V2 V2-

where C represents any approximant $(/w r j \gamma /)$.

In the late 19th and early 20th centuries this was reportedly a phonological change $(-V_1CV_{2-} \rightarrow -V_2V_{2-})$ which had progressed different amounts with different speakers. Apparently it was a feature of men's dialect to use the innovated form more often, but to what extent depended on the area. In present day Telqep Chukchi this change seems to be arrested. Most words are used solely in one form or the other, although the source is generally recognised. Only a few words appear in both. The relics of the change are important because they provide a minor syllable type with a double vowel. Chukchi's sister languages do not have any similar process. According to Bogoras, a similar process of intervocalic delation + vowel lengthening occurred in men's speech with the consonants /n/ and /t/. In the Telqep data, no examples of the elision of /t/ were observed, and elision of /n/ was only observed by one elderly speaker. This is discussed in more detail in §2.3.3.

In autosegmental terms:



43,

Examples of these word with variation between long vowel and vowelapproximant-vowel include /qora/~/qaa/ reindeer, /yiwik/~/yiik/ year, /qejuju/~/qejuu/ calf, /layen/~/leen/ really. Other words only occur with the long vowel, e.g. /weem/ river (compare Palana Koryak /wejem/), /geekak/ daughter (compare /*gew-ekak/ female-son) and /aplaan/ flour (from English 'flour' with an absolutive singular suffix /-n/).

3.3 Consonant Phonemes

Chukchi consonants (with the exception of the glottal stop; §3.4.2) can be adequately described using Classical Phonemic Analysis. These phonemes are shown in figure 3.1.

FIGURE 3.1. Chukchi consonant phonemes.

r	bilabial	alveolar	palatal	velar	uvular
stops	p	t		k	q
nasals	m	n		ŋ	•
approximants	w	£	j	Ŷ	
fricatives	1	s/c			
		ł			

The phonemes /t/, /s/ and /c/ have different distributions in the speech of men and of women, as has been discussed in §2.3. The other phonemes, both classical and prosodic, do not differ in this way.

There are a number of phonological processes which cause phonological alternations at morpheme boundaries. Different ways of describing these processes capture different regularities. As the purpose of this phonological description is ancillary to the morphosyntactic description of the Chukchi language, I have

<u>44.</u>	BASIC STRUC		Chapter 3
phonemes, rather the while both $/p/$ and expressed as $/p/ \rightarrow$	se processes as simple n complex generalisati /t/ assimilate in plac n]/C+nassl and as /t/- mant $\rightarrow \alpha$ place/C+nassl minor α place	ons applying to ar the to a following r \rightarrow [n]/C _{+nassl} , rat	entire class. Thus, asal, the rules are

Phonological rules are expressed in terms of the following distinctive features:

FIGURE 3.2. Consonant distinctive features.

	P	t	k	q	s/c	ł	m	n	ŋ	w	<u> (</u>	j	Y
sonorant	-	-	-	-	-	•	+	+	+	+	+	÷	+
anterior	+	+	-	-	+	-	+	÷	-	+	-	-	•
coronal	-	+	-	-	+	+	-	+	-	-	+	+	•
high	-	-	÷	-	-	+	-	-	+	-	-	+	÷
back	1 -	-	+	÷	-	-	-	-	+	-	-	-	÷
nasal	-	-	-	-	-	-	+	+	+	-	•	•	-
fricative	-	-	-	-	+	+	-	-	-	•	-	•	-

Although there are processes which apply to the approximants as a class, there is no requirement for a feature 'approximant' as it is redundantly + sonorant, -nasal.

3.3.1 Stop phonemes

The stop phonemes are unvoiced and unaspirated. Anterior stops assimilate nasality with a following nasal:

$$/p/ \rightarrow \begin{cases} [m] / _C_{\text{+nasal}} \\ [p] \text{ elsewhere} \end{cases}$$
$$/t/ \rightarrow \begin{cases} [n] / _C_{\text{+nusal}} \\ [t] \text{ elsewhere} \end{cases}$$

The velar stop /k/ has an approximant allophone before other consonants (lenition), and assimilates in place with a following uvular:

 $/k/ \rightarrow \begin{cases} [q] / _ q \\ [\gamma] / _ C_{-back} \\ [k] elsewhere \end{cases}$ (assimilation of height)

Where an underlying uvular stop /q/ precedes any consonants except another /q/it is deleted, and the syllable acquires the glottalisation prosody (§3.4.2).

GLOTTALISATION] / __C (where C ≠ q) $/q/ \rightarrow \begin{cases} 10101.... \\ [q] elsewhere \end{cases}$

Many instances of the glottalisation prosody transparently originate from the uvular stop according to this rule. In §3.4.2 there is a discussion of the glottalisation prosody, which shows how the glottal stop in Chukchi is phonologically in some ways like a consonant segment, and in some ways not.

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Non-coronal stops (i.e. /p k q/) can undergo the NON-CORONAL CLUSTER TRANSFORMATION when neighbouring a non-coronal approximant; see §3.3.4.

45.

3.3.2 Fricative and affricate phonemes

The consument /s/ only occurs in the men's dialect. In Telgep Chukchi it is realised by [s] cr [tf] in free variation; there is apparently no allophonic variation.

 $/s/ \rightarrow [s] \sim [tf]$

In other dialects this is apparently not the case. Skorik's description and the standard orthography call this phoneme '4' (in Russian [tf]), with an 'allograph' 'C' (Russian [s]) written before /q/. This reflects a similar allophony to that found in Women's Telgep Chukchi (see below).

The constraint $/c/^2$ only occurs in the women's dialect. Phonetically it is an apicoalveolar affricate with a fricative allophone before /q/. Word finally it merges with /t/.

$$/c/ \rightarrow \begin{cases} [t] / _ \# \\ [s] / _ q \\ [c] elsewhere \end{cases}$$

This particular set of allophonic realisations of the phoneme illustrates an interesting point about psychological reality. Literate Chukchi speakers can graphically distinguish allophones of phonemes when the allophone is the same as (an allophone of) a different phoneme, e.g. [1] is an allophone of both /c/ and /t/. In these cases literate speakers prefer to use orthographic symbols for the allophones rather than the phonemes; a speaker will always write 't' where [t] is pronounced. However, the allophonic variation between the realisations [s] - [c] is not noticed by speakers, even though these are written by different letters in Russian. One speaker corrected my phonemic transcription of /c/, pointing out that 'the sound [c] is written as [s] before [q]' (Tawiwi pers. comm.). This indicates she was aware that the phonetic sequence [sq] was phonologically /cq/.

Women's /c/ and men's /s/ occur only in their respective gender dialects and thus are never in contrast. They are treated the same in terms of distinctive features.

The lateral fricative forms a natural class with /c/ and /s/, acting as environments for the rule $/n/ \rightarrow [\gamma] / C_{\text{sfricative}}$ (see §3.3.3).

 $/i/ \rightarrow \begin{cases} [i] - [i]/ - i \\ [i] elsewhere \end{cases}$

² Standard IPA for the apico alveolar affricate is /ts/ not /c/; the latter is however commonly used in some branches of linguistics and has the advantage of having one symbol for one phoneme.

3.3.3 Nasal phonemes

The anterior masals /m n/do not undergo any phonological processes. In contrast, the velar nasal freely assimilates in place, and is subject to a lenition process (/ŋ/ \rightarrow [γ]) in certain contexts.

$$/m/ \rightarrow [m]$$

$$/n/ \rightarrow [n]$$

$$/n/ \rightarrow [n]$$

$$/n/ \rightarrow \left\{ \begin{array}{c} \alpha \text{ place } / _C\text{-nasal, } \alpha \text{ place} \\ [\gamma] / _C\text{+nasal, } + \text{anterior} \\ [n] / \gamma_\\ [n] \text{ elsewhere} \end{array} \right.$$

The output of $[\alpha \text{ place}]$ in the rule for the realisation of /g/ is limited to nasals which already exist in the phonemic inventory, i.e. bilabial, alveolar or velar. Thus, where the conditioning environment is a palatal consonant the realisation of /g/ is alveolar [n], and if the conditioning environment is uvular the realisation of /g/ is velar [n].

The progressive dissimilation of $/n/ \rightarrow [n] / [\gamma]$ — may be the only progressive rule in the language. There is however another alternation which is only observed occurring within morpheme boundaries: $/n/ \rightarrow [\gamma] / C_{\text{fricative}}$. This alternation is a Chukchi innovation, not shared by any of the sister languages. The two commonly occurring examples of the alternation are the singulative /*in^{-VH}/, which is realised as /ian/ ~ /iy/, as in /apaapay-ian-an/ 'a (single) spider', /iaiaiy-a-n/ 'an eye', and the augmentative /*cn^{+VH}/, which is realised as /con/ ~ /cy/, as in /rakwat-con-a-n/ 'big doe', /naiwai?-a-cy-a-t/ 'big herd'. It is unclear whether or not this alternation is productive.

3.3.4 Approximants

. . . .

The glide and tap phonemes form a natural class (in terms of features: [-nasal, +sonorant])³.

$$/w/ \rightarrow [w]$$

$$/r/ \rightarrow \begin{cases} [t] / _C_{+coronal} \\ [r] elsewhere \end{cases}$$

$$/j/ \rightarrow \begin{cases} [Y] / _C_{+coronal} \\ [j] elsewhere \end{cases}$$

$$/y/ \rightarrow [Y]$$

Approximants are also subject to the deletion/assimilation process in which $-V_1C_{approx}V_{2^*} \rightarrow -V_2V_{2^*}$ (see §3.2.4).

The semi-vowel approximants /j/ and /w/ trigger assimilation of place of a neighbouring schwa (irrespective of relative order) such that $\vartheta \rightarrow i / j$ and $\vartheta \rightarrow u / w$.

The non-coronal approximants (i.e. $/w \gamma / \rangle$ undergo the NON-CORONAL CLUSTER TRANSFORMATION when neighbouring another non-coronal consonant. The noncoronal cluster transformation is a process whereby any cluster of two non-nasal, non-coronal consonants in which at least one of the consonants is a sonorant is realised as /kw/.

 $\begin{array}{cccccccc} C_{-coronal} & \rightarrow /kw/ \text{ where at least one of } \alpha \text{ and } \beta \text{ is [+]} \\ \hline & & \text{-rasal} & & \text{-rasal} \\ \alpha \text{ sonorant} & \beta \text{ sonorant} \end{array}$

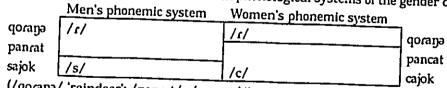
Note that the features [-nasal, +sonorant] specify the natural class of approximants. In careful speech speakers sometimes avoid this transformation, and it is not usual to apply it with /q/.

Standard Chukchi also has a transformation $\gamma m \rightarrow \eta \eta$, but this is rarely applied in Telqep Chukchi, and the instances of it that do occur are probably dialect mixing.

3.3.5 Men's and women's ltl and lcl-lsl

As described in §2.3, Chukchi men and women speak their languages with slightly different phonological systems. The three types of correspondence are summarised in fig. 3.3. These correspondences are explicable diachronically, but unpredictable synchronically (§2.3.2).

FIGURE 3.3. Correspondences between phonological systems of the gender dialects.



(/qoraŋə/ 'reindeer'; /panrat/~/pancat/ 'leg hide'; /sajok/~/cajok/ 'to drink tea')

There are also a few lexical differences between the men's and the women's variants of the language, discussed in §2.3.4.

3.4 Prosodic Phonemes

Chukchi also has prosodic phonemes, phonological units which are associated with units larger than the segment. Three underlying vowels are subject to a vowel harmony prosody which extends over the prosodic domain of the word (§3.4.1). The glottal stop is also best described as a prosody with the domain of the syllable, although it also behaves in some contexts like a segment (§3.4.2). Chukchi does not have phonemic stress.

³ Note that in accordance with the traditional practice in Chukchi linguistics the velar approximant phoneme is written by the symbol $/\gamma$ (usually a velar fricative) instead of the technically correct symbol for a velar approximant /uj/.

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3.4.1 Vowels and vowel harmony

Chukchi has six phonetic vowel segments, the segments [i], [e], [a], [o], [u] and the epenthetic vowel [ə]. The full vowels are related in harmonic pairs to three underlying vowels /i/, /e/ and /u/. Depending on the presence of the vowel harmony prosody (VH), these are realised as below:

FIGURE 3.4. Vowel harmony pairs.

- vowel harmony	[i]	[e]	[u]	
+ vowel harmony	[e]	[a]	[o]	

Note that the vowel [e] can be the realisation of two phonologically different underlying vowels; either the +VH variant of the pair [i,e] or the -VH variant of the pair [e,a]. There is no phonetic difference between these two vowels. The prosodic domain of the vowel harmony prosody is the entire word. Thus, if the vowel harmony prosody is present in any one morpheme of a word then all vowels of the word are affected by it. The vowel harmony prosody itself is an independent phonological unit, and is not attached to any particular segment. For example, there are two absolutive singular suffixes with form /-n/. One of these is +VH, and derives place nouns from action verbs (§8.4). The other has the value -VH, and is the default absolutive suffix, carrying no further semantic specification (§6.3.1). Thus the +VH word /təla-n*VH 'path' is derived from the -VH verb root /təle-VH/ 'go, walk'; the addition of the +VH suffix has changed the /e/ of the stem to /a/. In contrast, the noun stem /kemliłu--VH/ 'kamlejka' (a cloth tunic worn over fur) forms absolutive case with the suffix /-n*VH/, which doesn't cause any alternation of the vowels, i.e. /kemliłu-n*VH/

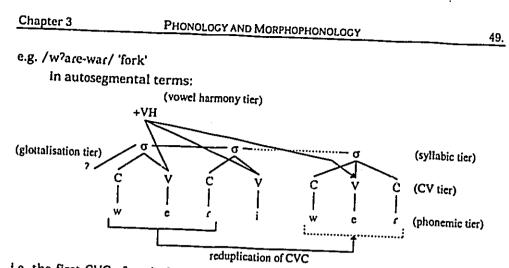
Note that the vowel [ə] is inserted epenthetically in the process of syllabification. It does not participate in the vowel harmony prosody (§3.2.2).

3.4.2 Glottalisation

Glottal stops can only occur in prevocalic position in a word. They are best not treated as segmental phonemes for several reasons.

i) They are not distributed like other consonants. A maximal syllable is C?VC (§3.2.2). Thus a glottal stop is the only possible second consonant in an initial cluster or third consonant in an intervocalic cluster.

ii) Reduplication (one of the possible markers of absolutive singular; §6.3.1) copies consonants and vowels, but is blind to the presence of the glottal stop:



i.e. the first CVC of underlying $/*w^{2}are-/$ (excluding the glottalisation of the first syllable) is copied to the end of the stem to produce $/w^{2}are-war/$.

These two points make it clear that the glottal stop is not a regular Chukchi consonant. However, it does in very rare contexts act like a consonant segment. Chukchi shows a preference for syllables with full onsets (see syllabification §3.2.2). When a syllable has no underlying initial consonant but the glottalisation prosody is present, then the glottal stop acts as a consonant in the CV skeleton. Consonantal behaviour in these instances is clearest under reduplication. The glottal stop is picked up by the -CVC reduplication template when there is no other initial C (this does not normally occur, as shown above with /w?are-war/). There are only a few examples of this: /?itu?it/ 'goose' is the reduplicated absolutive singular form of the stem /*?itu/ (e.g. absolutive plural /?itu-t/). There are also a handful of words in which a glottal stop unexpectedly separates two vowels-when two underlying vowels are adjacent on the CV skeleton (irrespective of the presence of glottalisation), the first vowel is deleted by the regular phonological process described in §3.2.3. However, a number of interjections (for example. Po?oj/ 'oh nol', /e[?]ej/ 'ohl'), the particle /i[?]am/ 'why?', and the noun /apa[?]ake/ 'congenitally deformed calf) have a glottal stop acting like a consonant to separate two vowels. The interjections can be dismissed as extra-phonological (it is not uncommon for interjections to violate the phonotactic norms of a language; e.g. English interjections featuring the glottal stop, e.g. [?a?a?] 'no, don't'), and the particle may be better transcribed /əj?am/ (identical pronunciation; note that as traditionally transcribed it violates vowel harmony). The noun /apa?ake/ cannot be accounted for according to regular phonological principles.

3.5 Phonological and morphophonological alternations

There are a number of phonological rules which transform underlying consonant clusters. This interpretation is justified by the existence of such pairs as <u>/təm-nen/</u> 'he killed it (NFUT)' and <u>/ya-nm-a-len/</u> 'he killed it (PF)', where the underlined segments are allomorphs of the morpheme 'kill'. This allomorphy is easily accounted for if you allow an abstract underlying form /*tm/, which is realised as

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/təm-/ word initially due to the schwa insertion rule (§3.2.2) and /-nm-/ word internally due to the regular assimilation of the stop by the nasal (§3.3.1). Schwa epenthesis to avoid word initial CC with underlying morpheme initial stems is common, and means that that underlying forms which never appear unmodified on the surface are easy to diagnose.

These alternations are not all equally productive; while these morphophonological rules are applied without exception to lexical stems (word initial/word internal contrasts), in consonant clusters produced at morpheme boundaries they are more variable. The reason for this could be that the morphophonological alternations are lexicalised to varying degrees, meaning that some do not apply at morpheme boundaries while others do. Another possibility (not incompatible with the former) is that in careful speech people attempt to preserve the phonological alternations serve to make otherwise unattested forms of morphemes and obscure the common phonological form of the morpheme. In contrast, morphophonological alternations within stems are unavoidable without violating higher principles of syllable construction and producing otherwise unattested forms of morphemes.

These rules account for all the observed phonological alternations at morpheme boundaries, and for the larger part of the observed stem alternations. For example, the stem for 'news', 'relate news' occurs in three forms, /pani/, /mnai/ and /popel/. The form /ponel/ usually occurs word initially, and the form /mnol/ always occurs word internally. The form /pappl/ is the absolutive nominal form with no affixation. The distribution of these forms can be accounted for by hypothesising an underlying form /*pnl/. This underlying form is expanded during syllabification (§3.2.2) with schwa epenthesis in either of the two possible positions. producing the syllabilied underlying forms /*ponl/ word initially or /*pnpl/ word internally. After syllabification the underlying forms are then subject to regular phonological rules, giving either $/*n!/ \rightarrow /n!/$ or $/*pg/ \rightarrow /mg/$. There are other stem alternations which cannot be accounted for by phonological rule, described below. These morphological stem alternations are non-productive (i.e. are never observed across morpheme boundaries), and presumably reflect phonological processes of an earlier stage of the language. Interestingly, although they are not productive, some of these alternations are exceptionless within their context (i.e. within stems). This suggests that not a lot of verbs have entered the language since these processes were productive, which in turn suggests that the period in which the processes ceased to be productive was not so long ago.

Many stems have different forms when they occur initially in a word to when they are preceded by other morphological material. This phenomenon is most common for verb stems and quite rare for other stem types. The verb stem alternations are mostly regular, and can be accounted for by postulating underlying, possibly unrealisable, forms. All other alternations occur according to one of the following three patterns:

i) /#r-/ ~ /-n-/ alternation (/r/ ~ /n/ alternation)

1; i) /#C₁-/ -/-C₂C₁-/ alternation (internal consonant - zero alternation)

iii) $/\#C_{1\partial}C_{2}/-/-C_{2}/$ alternation (initial consonant - zero alternation)

Other regular stem alternations between word initial and internal forms of verbs are the result of phonological rules acting on underlying consonants in forms where they occur sequentially, as discussed above.

e.g. /<u>łəŋ</u>-ə-k/ /n-ə-<u>ły</u>-ə-qin/

The morphological alternations in (ii) and (iii) are features of verb stem morphemes, although the alternation is preserved when a stem of another class is derived from the verb. Regular phonological alternations occur with any word class.

3.5.1 /r-/~/-n-/alternation

The initial consonant of many verb stems has a morphophonemic alternation between word initial /t and word internal /n. These alternating consonants can usually be shown to be allomorphs of a derivational morpheme (most often involved in transitivity raising or rearranging; causative §11.5.1, applicative §11.6.1), but there are examples where the alternating consonant is inseparable from the stem. As a morpheme it is very productive, and these apparent exceptions are probably instances of lexicalisation, where the initial alternating consonant has its diachronic roots in a prefix.

Notably, there are only four verb stems which begin with an /n/ in their word initial form (verbs beginning with non-alternating /r/ are common). One of the four, /nom/ 'to be washed up on the shore', has a series of related nominals which can be built either on the stem /nom/ or on the stem /rom/, suggesting either earlier alternation, now partially lost, or a later regularisation.

3.5.2 Internal consonant - zero alternatión

Lexically determined work stem alternations in which the word internal cluster /-C₁C₂-/ alternates with just the second consonant when word initial /#C₂-/ are much less common than stems with the /#t-/ ~ /-n-/ alternation, numbering perhaps two dozen forms in all (in some cases the same alternation is found with different stems). The alternations attested in the corpus are :

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FIGURE 3.5. Internal consonant ~ zero alternations

JRE J.J. Internat	
ALTERNATION:	EXAMPLES:
#p~ 1 p	#puur?- ~ -{puur?- exchange
#q ~ łq	#qeynew- ~ -lqeynew- shoot
"1 -1	#qut- ~ -lqut- stand up
1	#qət- ~ -lqət- set off
#k ~ rk	#kəłe- ~ -rkəłe- follow
	#kəp l -~-rkəp l - <i>hit</i>
#w ~ tw	#wa- ~ -twa- be
	#wetia twetia- stand up
#g ~ tg	#yinc- ~ -tyinc- draw out
#t ~ tt	#t?- ~ -tt?- pour
#k ~ tk	#kiw- ~ -tkiw- spend night
#w ~ kw	#wut- ~ -kwut- harness

There are a couple of forms which show that these alternations are not phonologically determined. These forms have the same clusters word internally as the set of stems above, but which form the word initial form by schwa epenthesis. For example:

FIGURE 3.6. No internal consonant ~ zero alternation.

#təw ~ tw	#Low Liv- Speak about	(compare #w ~ tw)
#təγ ~ <u>t</u> γ	#təy- ~ ty- make fish shavings	(compare k ; ~ ty)

Such clear evidence is quite rare, although there are many other \sim ord internal clusters which don't show any such alternations, including /#low/ – /lw/, /#loy/ – /ly/, /#rol/ – /rl/, /#roy/ – /ry/, /#ror/ – /rc/. The forms with the consonant deletion alternation do not form a phonologically or semantically predictable class.

3.5.3 External consonant - zero alternation

There are perhaps a dozen verb stems which have an alternation with a three segment word initial form alternating with a two segment word internal form. The alternation is $/\#C_{10}C_{2}$ - $/ ~/ -C_{2}$ -/ (the third segment of these stems occurs after C₂, and is usually a consonant, but there are a couple of forms with a vowel).

FIGURE 3.7. External consonant ~ zero alternations.

/#C ₁ aC ₂ C ₃ -/ -/ -C ₂ C ₃ -/	#rønr- ~ -nr- hold #røtc- ~ -tc- AUX
$/\#C_{10}C_2V - / - C_2V - /$	#təlele- walk

These stems do not form a phonologically or semantically predictable class.

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3.5.4 Vowel reduction

Word final vowels are reduced or elided. This process is almost obligatory with word final lexical stems. When the final vowel is $/e \sim a/$ (i.e. the underlying vowel $/*e^{-VH}/$), it is reduced to schwa:

/*e-VH/ → ə /__#

When the final vowel is underlying $/*i^{-VH}/$ or $/*u^{-VH}/$ the vowel is usually elided when word final, but this is rather less regular than the reduction rule:

/*i-VH, *u-VH/ $\rightarrow \emptyset$ /_#

By far the most common lexical stems occurring word finally are zero-derived nominals (see §6.3.1). These processes are very uncommon with grammatical suffixes (§6.3.2).

3.6 Intonation

Speakers produce Chukchi with characteristic patterns of intonation. For declarative sentences this has a clear rise-fall contour. This intonation contour, which I call the prosodic phrase, corresponds well to semantic and pragmatic units of speech and is used in this work as the main unit of syntactic analysis. In Chukchi word order rather than intonation is the main indicater of pragmatic relationships (see §19.2), and there does not seem to be much variety in intonation patterns⁴.

The spectraneous narrative-type data that this study is based on does not provide many examples of true imperatives and interrogative phrases (the examples which do occur are within quoted speech, which in other areas of the language is pragmatically and grammatically distinct from non-quoted speech; §5.6.4, §19.4).

Most transcriptions used presented in this work are single prosodic phrases. Where there is more than one the end of the prosodic phrase is marked with the symbol ''. A pause within the prosodic phrase which does not have characteristic end-ofphrase pitch drop is marked '. These pauses are often hesitations or corrections. Where less than an entire prosodic phrase is presented (for example, when the morphological form of a single word is being illustrated and context is unimportant), the ellipsis is marked by the symbol '[...]'.

Chukchi words do not have phonologically distinctive stress. Word stress can $\odot \circ$ very difficult to hear, and is mostly perceptible when the word is at the prosodic

⁴ King's intonational study of Dyirbal, a pragmatic word order language from Australia, found that where pragmatic functions were indicated by word order the intonational correlates of these functions were not highly elaborated; for example, where English has seven accent types, Dyirbal has only one (King 1994, Dixon 1972). We can hypothesise that a language which does not have an elaborated set of functions carriel out by intonation could be expected not to have an elaborated set of forms of intonation.

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peak of the phrase. Primary stress occurs on the first syllable of consonant onset and a full vowel. Secondary stress occurs on ever before and after that.	f the word with a ry second syllable	Example 001 shows the vocative form of Təlel?ən ⁵ , a personal name. The schwa in the final syllable is epenthetic, thus it becomes [o] and is lengthened; sce (i) and (iii) above.
Examples (acute shows primary stress, grave shows secondary stre First syllable: CONSONANT + FULL VOWEL /nú.tec.qà.cə.kù.kin/ smth. from the surface of the grave First syllable/s: REDUCED VOWEL/S /qə.jét.q?i/ comel /kàr.yə.ré.c?a.kin/ smth. made of dry stumps First syllable: VOWEL INITIAL /a.tók.tor.kà/ without a doctor /a.mó.łe.qàj/ bark (DIM) Exaggerated emphasis of a word changes the stress patterns so to stress on each syllable, or for a less exaggerated effect, on each n	that there is even	001 ank?am n-in-iw-iyam Talel?-o::-n / [] and HAB-TR-say-1sg personal.name-E.VOC-3sgABS [kr024] And I said to him: "Talel?an!" [kr024] The following example shows the idential phenomenon on a progressive verb suffix -rkan: 002 ana kake! atlon i?am req-a-l?et-a-rko::n? so INTJ INTER INTER do.what?-E-DUR-E-PROG.VOC Oh myl Why, what on earth are you doing?! [ot124] The word ammema mummy has the underlying form *ammeme. In example 003 the final vowel of the stem is not reduced, and there is a [j] added after it; see (ii) and (iv). 003 "ammemej! ?emi pely-a-n?" Mummy.3sgABS.VOC where hide-E-3sgABS [ot042]
(see also §3.6.1). 3.6.1 Vocative prosody There are a number of distinctive prosodic changes which wor they are being called out or very strongly emphasised. These features are not a morpheme; they are applied indiscriminately class in any possible grammatical form and the precise form	ords undergo when e vocative prosodic ly to words of any	In example 004 the form elejwətkul?etke don't wander off all the time has a lengthened final vowel; see (iii). 004 anə e-lejw-ə-tku-l?et-ke:e: so NEG-roam-E-ITER-DUR-NEG.VOC Don't wander off all the time! [ot023] Example 005 shows very strong emphasis by lengthening all the vowels of
 changes vary. The basic features of the vocative prosody apply to the final sy The prosodic features are selected from the following (not all changes need be applied): (i) Epenthetic [a] in final syllable → [0] 	yllable of the word. Il possible prosodic	qəlyiteŋətcitkujwəyənet chop [it] up really well:005q-ə:-lyi:-te:ŋ-ə:-tci:-tku:-jw-ə:-y-ə:-ne:t2sg.INT-INTS-EMPH-E-cut-ITER-COLL-E-TH-E-3plfood-3plABSChop up the food really well![cy400]The word was also pronounced with very marked laryngeal constriction; see (v) and(vi).
 (ii) Non-epenthetic [ə] (the result of vowel reduction) in final sy (iii) Lengthening of vowel in final syllable (iv) Word final vowel → vowel + [j] If further emphasis is required, there can additionally be: (v) Laryngeal constriction (vi) Lengthening of non-final vowels (so that there is even syllable); this can be applied to all the vowels in the word, the full (non-schwa) vowels. 	ven stress on each	3.7 Orthographies There have been a number of different writing systems used for Chukchi. In his English language publications Bogoras uses a non-phonemic latinate writing system. Later this was developed (by Bogoras and others) into a mostly phonemic system for use as the official orthography. For political reasons latinate writing systems fell out of favour very soon afterwards, and Chukchi (along with all the other newly written languages of the USSR) received an official Cyrillic orthography. Books in the previous official latinate orthography were mostly destroyed, and it is unlikely that many will be found in public collections. However,

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⁵ Texts examples are given in the modified IPA working orthography outlined in §3.7.3.

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a knowledge of the official Cyrillic orthography (§3.7.1) and the earlier latinate orthography of Bogoras (§3.7.2) is needed to read the major published sources on Chukchi language.

Neither of these orthographies serve the purposes of the linguist very well. Section §3.7.3 contains a description of the modified IPA orthography used in the remainder of this work.

3.7.1 Official Cyrillic orthography

The official Cyrillic orthography was created at a time when the Soviet Union was turning away from Internationalism to a policy of building Socialism in One Country. Russian language and culture became 'first among equals'. The importance of the status of Russian is reflected in the new orthography for Chukchi, which includes many specifically Russian spelling rules. These spelling rules sit uncomfortably with Chukchi phonology, and make Russian literacy a precursor to Chukchi literacy (§1.2.1).

The following Chukchi consonants have a one-to-one correspondence with graphemes; upper and lower case letters exist, but (as in Cyrillic) differ only in size. Russian phonemes are also given for comparison.

Chukchi Phoneme	Grapheme	(Russian Phoneme)
/p/	п	/p/
/t/	Т	/t/
/k/	к	/k/
/q/	K'	no equivalent
/m/	М	/m/
/n/	H	/n/
/ŋ/	H'	no equivalent
/}/	Л	/1/
/w/	В.	/v/
/ c/	Р	/r/
/ \/	ſ	/g/

NOTE: K' (uvular stop) and H' (eng) can also be written with the special characters K and H, but this poses typographical problems. In 1996 the symbol for / $\frac{1}{}$ was changed from J to J, (this convention used in, for example, Emel'janova & Nutekeu 1996); this was a wholesale replacement, and no other aspect of the spelling system was changed.

The standard dialect allomorphs of the phoneme /c/ are written separately:

Chukchi	Grapheme	(Russian)
	C (before K')	/s/ ·
/c/	ि ५ (elsewhere)	/tʃ/

Apart from the epenthetic schwa. Chukchi has five vowel phones [i, e, a, o, u], derived from the three underlying vowel phonemes /i, e, u/ combined with the vowel harmony prosody. Thus, [u] is /*u-VH/, [o] is /*u-VH/, [i] is /*i-VH/, [a] is /*e*VH/, and [e] comes from either of two sources: /*i+VH/ or /*e-VH/; see §3.4.1). Like all other Chukchi orthographies, the vowel graphemes in the Cyrillic orthography represent phones, not phonemes (for an attempt at writing the vowel harmony prosody separately see §3.7.2). However, due to the requirement that the orthography as closely as possible follows Russian spelling conventions, these five phones are represented by a number of symbols. Only schwa and /i/ have a one-to-one relationship between phonemes and graphemes:

Grapheme	(Russian)
Ы	/i/
И	/i/
	Ы

The other four vowels are represented by two graphemes each. Modern Russian has a series of palatal consonants which are written using the symbol for the corresponding non-palatal. The difference between palatal and non-palatal consonants is indicated by the choice of the following vowel: /t/ + /a/ is written TA', whereas $/t^{i}/ + /a/$ is written 'TA' (word finally palatalisation is indicated by a 'silent letter' b, which is called the 'soft sign'). Chukchi does not have a contrasting series of palatal and non-palatal consonants. Nevertheless this same corvention is used. The consonant JI is considered palatal, and all the others are non-palatal. Thus, there is a redundant doubling of vowel symbols:

Chukchi	Grapheme (Я (after Л)	(Russian)
[a]	A (elsewhere)	/a/
[e]	{ E (after Л)	lal
	Э (elsewhere)	/e/
[u]	Ю (after Л) У (elsewhere)	/u/
		7 47
[o]	{ Ё (after Л) О (elsewhere)	/0/
	l O (elsewhere)	, .,

The vowel symbols which in Russian follow palatal consonants are known as the 'jotated' vowels, as their second function is to represent /j/ + vowel sequences. This occurs word initially, or following a 'soft sign' b or 'hard sign' b (the latter is another 'silent' letter, used in this context when the consonant is not palatal—the 'soft sign' is used with palatal consonants). This spelling rule has also been imported into the Chukchi orthography. As /i/ and /ə/ don't have corresponding jotated symbols, when a /j/ precedes these it is written using the Cyrillic character \breve{N} .

Phoneme sequence Orthography

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	# /j/ + /a/	я
	/t/ + /a/	TA
	/t/ + /j/ + /a/	тъя
	/ł/ + /a/	RI
	$/\frac{1}{+}/\frac{1}{+}/\frac{1}{-}$	лья
	# /j/ + /i/	йи
	/t/ + /j/ + /i/	тйи
	/ <u>/</u> / + /j/ + /i/	лйи

Lastly, the glottal stop is written in a number of different ways. Word-initially it is written by an apostrophe following the vowel. After a consonant it is written using the 'soft sign' or 'hard sign' (for the so-called 'soft' and 'hard' consonants respectively) followed by the non-jotated vowel.

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Chukchi	Orthography
# /?/ + /a/	Α'
/t/ + /?/ + /a/	тьа
/ 1 / + /?/ + /a/	ЛЬА

Thus, the soft sign and hard sign each have two functions; preceding the jotated series of vowels they indicate jotation, and preceding the unjotated series they indicate glottalisation.

These complex and illogical spelling rules do not seem to be understood by many Chukchis apart from the small group of 'language professionals', such as schoolteachers and media workers, who are all tertiary educated and highly literate in Russian as well.

3.7.2 Early latinate orthography

In the ethnography *The Chukchee* (Bogoras 1904-1909) and the grammatical sketch *Chukchee* (Bogoras 1922) the author uses a system of transcription which is quite unusual by modern standards. Since these works are still important sources an understanding of this early Chukchi writing system is useful. The following description is adequate to reduce the Bogoras transcription of Chukchi to a fairly accurate phonemic one.

The consonants /p, t, q, m, n/ are written with their IPA symbols. The other consonants are written as follows:

Chukchi Phoneme	Bogoras (1922) transcription
/ŋ/	ñ
/1/	1
/c/	دِّ (men), š (women)
/w/	w, v, u
/ c/	r, ř
/j/	у. І
/y/	g, h

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The following sequence of phonemes is indicated by one letter:

/#/

The glottal stop is written as a superscript ϵ following the vowel in the syllable where it occurs, e.g. $/r^2ew/$ 'whale' is transcribed $re^{\epsilon}w$. Bogoras didn't write the glottal stop in the nominaliser endings $/-\frac{1}{2}r^2/\frac{1}{2}$ and $\frac{1}{2}r^2/r^2$.

The vowels are transcribed using the following symbols.

Chukchi vowels	Bogoras (1922) transcription
[i]	¢j, j
[e]	e, ê, ä
[a]	a
[o]	Ο, Θ
[u]	u
[ə]	I, 1Ĭ, (U)

Full vowels usually include a diacritic which indicates the underlying vowel harmony of the morpheme; for 'weak' morphemes (i.e. -VH) and for 'strong' ones (+VH). Schwa is written without a diacritic. The letter u written without diacritics represents either schwa neighbouring /w/ or /w/ before a consonant. These conventions are illustrated in the following examples:

Transcription:	Morphemic structure:	Surface form:	
luwqurkm	*Iwaw* ^{VH} -rkən ^{-VH}	/ławawarkan/	'he can't do it'
qalvaulen	*ye ^{-vH} -lwaw ^{+vH} -lin ^{-vH}	/yałwawłen/	'he couldn't do it

Stress is marked by an apostrophe following the stressed vowel.

3.7.3 Muslified IPA orthography

In this thesis I use a modified IPA orthography. Chukchi poses a number of problems for orthography design. Alphabets work best at providing a segmental phonemic transcription, and don't deal very well with prosodic phonemes. I have in some areas compromised phonological elegance or precision in favour of simplicity and continuity with the general principles of the 'consensus system' of transcription used by English-medium linguists such as Comrie (e.g. 1981). The orthography works as follows:

CONSONANTS are generally written with an IPA symbol representing the phoneme. Following tradition in the field the output of phonological processes is written rather than the underlying form. This can make interpretation of transcriptions rather complicated, since morphemes frequently have multiple phonological forms. The approximant phonemes /c/ and /ul/ (which I have already been transcribing as $/\gamma/$; see footnote 3) have never been written with these symbols in published materials on Chukchi; instead the symbols 'r' and ' γ ' are used. Following the usual Latin transiteration of Cyrillic, the phoneme /w/ has often been transcribed as 'v', but I use 'w'. The men's phoneme /s/ (§3.3.5) and the women's phoneme /ts/

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(which I have been transcribing as /c/; see footnote 2) are both transcribed 'c'. The symbol ć has been used by many writers (e.g. Comrie 1981), and 'č' has been used (it is the standard transliteration of the Russian value of the Cyrillic character used in the standard Cyrillic orthography) but I have judged it desirable to avoid redundant diacritics in a working orthography. The lateral fricative /ł/ is written 'I' for the sake of clarity (to avoid confusion with 't'). The consonant graphemes used in this thesis are summarised in fig. 3.8 (compare fig. 3.1).

FIGURE 3.8. Consonant graphemes used in this thesis.

	bilabial	alveolar	palatal	velar	uvular
stops	p	t		k	q
nasals	m	n		ŋ	
approximants	w	r	j	Y	
fricative/affricate		с			
lateral fricative		1		<u> </u>	

VOWELS are written using symbols representing the phones, not the phonemes,

FIGURE 3.9. Vowel graphemes used in this thesis.

e.g.	Underlying	Vowel harm	ony prosody
Ĭ	vowel	–VH	+VH
	/*i/	ʻï	'e'
	/*e/	'e'	'a'
	/*u/	'u'	ʻoʻ

My personal preference would be to write only the three underlying vowels and to mark the vowel harmony prosody separately, but this would go against all tradition in the field and make my data difficult to compare to any other. The EPENTHETIC SCHWA is written where it is inserted.

Since the VOWEL HARMONY PROSODY is already redundantly marked by many of the vowel graphemes, it is not generally indicated in text examples. Where the value of the prosody is significant and/or not retrievable it is marked with a superscript, e.g. $[e^{-VH}]$ or $[e^{+VH}]$.

The GLOTTALISATION PROSODY is always realised as a prevocalic glottal stop, which is also the simplest way to indicate it in the orthography, e.g. 'r'ew' whale.

Word classes

4.1 Introduction

This chapter contains a morphosyntactic classification of the different kinds of words and stems found in Chukchi. The properties of each class will be discussed in more detail in the following chapters.

The Chukchi phenomenon of vowel harmony provides a simple diagnostic for wordhood (§3.4.1), as the phonological dumain of the vowel harmony prosody is almost always coextensive with the grammatical unit 'word'. A word typically consists of a stem and the characteristic inflection of a word of that class. There are also words which are uninflected stems; many of these are function words rather than lexical content words, but this group does include some monomorphemic lexical stems as well (e.g. underive arb base §4.6).

Chukchi offers few reasons to distinguish the syntactically defined grammatical word from the phonological word. Almost always the Chukchi grammatical word can h = -10 nec? by the domain of the vowel harmony prosody, i.e. the same as the phonolog. word. The only exceptions to this are analytic verbs (§4.5.1) and, marginally, analytic numerals (see §4.4, §16.10); these are both structures which semantically and syntactically function like a single word, but which phonologically consist of two or more words.

The stem of an inflected word may be a single morpheme, or may be morphologically complex. Morphologically complex stems are often the result of syntactic derivation, for example, the monomorphemic stem walpa- forms the nouns walpa/walpa-t shovel/shovels, whereas to form a verb to shovel (something) requires a morphologically complex stem walpa-tko-, derived by means of the suffix -tku-VH use [noun] as a tool. Other morphologically complex stems result from incorporation and compounding. The stem class of a monomorphemic stem is considered the same as the word class which is formed from it. Sometimes a stem may belong to more than one class. and thus can form words of more than one class. It is much rarer for a word to have more than one class. While in many instances the same inflectional morphology forms two different classes (e.g. certain oblique cases and converbs are formed the same way), for this to produce a word

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which could be interpreted as belonging to two word classes this would have to coincide with the use of one of the multi-classed stems. A rare example is the word **ya-r?a-ma** with something OR while doing something. The stem **r?e-VH** can be interpreted either as the nominal stem something, or the verb stem do something (vi). Depending on the stem class, the inflectional circumfix **ya-___-ma** is interpreted as the associative case marker (with a nominal stem), or as a converb (with a verbal stem).

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Chapter 4

There are two major inflecting word classes; nominals and verbs. Each of these is divided into subclasses, which may be closed, as listed below.

Nominals, numerals and adjectives inflect for referent properties to varying degrees. These all participate in absolutive case noun phrases.

Nominals (§4.2), including:

Common nouns (open) —§6. §8 High animate nouns (open) —§6.3.1, §6.3.4 Personal pronouns (closed) —§7.2 Interrogative/interrogative pronouns (closed) —§7.3 Deictic and demonstrative pronouns (closed) —§7.4 Quantifier pronouns (closed)—§7.5 Participles (no corresponding stem type) —§8.2 Adjectives (closed) —§16.2 Numerals (closed)—§16.7

Words with argument-taking properties

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Inflecting verbs (§4.3), including:

Intransitive verbs (open) —§11.2

Transitive verbs (open) —§11.3

Intercogative pro-verbs (closed) —§5.6.2

Copula/auxiliary verbs (closed) —§17

Verb bases (§4.6), including

Underived (closed) —§17.3

Derived (deverbal, deädjectival, and negative, open) —§§13.5-6,

§§16.5-€, §18.2

Converbs (open)—§13.4
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Analytic verbs are syntactic verbs which consist of two phonological words, a verb base (from the uninflecting class of verbal bases, which may be underived or derived from adjective or verb stems) and an auxiliary verb. The base always precedes the auxiliary, but other adverbs or particles may appear between them. The selection of the auxiliary verb is the only overt marker of transitivity; however, transitivity is a grammatical category determined by the verb base. The auxiliary function of copula/auxiliary verbs is discussed in §17.3. Morphological derivations on an analytic verb (e.g. intensifiers, antipassive, etc.) always apply to the auxiliary, never to the base. Converbs and derived verb bases can also function syntactically as adverbs.

There are also a variety of non-inflecting word classes:

Adverbs, including Deädjectival (closed?)--§4.8.1 Deictics (closed)--§4.8.2, §15.4 Underived time and manner (closed?)--§4.8.3 NP modifer (closed)--§4.8.4 Grammatical Particles, including: Negative Particles (closed)--§4.8.5, §18.8 Proclausal Particles (closed)--§4.8.6 Conjunctives (closed)--§4.8.7, §5.5.2, §9.5 Modal Particles (closed)--§4.8.8 Discourse Particles (closed)--§4.8.9 Evaluative Particles (closed)--§4.8.10 Postpositions (closed)--§4.9, §15.5 Interjections (open?)--§4.10

Most word classes also have minor subclasses with just one or two members. Examples of single-member (sub)classes include the inflecting negative 'particle' qərəmena-/qəcəmena- (§4.8.5; classified with particles due to its similarity in form and meaning to the particle qərəm/qəcəm) and the argument-taking particle/interjection qoro (§4.8.6).

4.2 Nominals

Chukchi has a large class of nominals. Thes, are characterised semantically by the feature that they represent relatively time stable phenomena (Givón 1984:55-56). The diagnostic morphosyntactic feature of nominals is that they show the grammatical category of case. Core nominals fill argument slots cross-referenced by the verb, and are case marked to show the syntactic roles A (transitive subject), O (transitive object) and S (intransitive subject), as well as copula complement (arguably also a core syntactic role in Chukchi). Nominals in oblique roles are case-marked for a large range of mostly spatial relations. Nominal morphology is quite regular for all subclasses of nominal stem. Of the subclasses, nouns (formed from noun stems) and participles (formed from verb stems) are open, and the various sorts of pronouns are closed. Nominals may also encode the grammatical categories of number and person; these grammatical markings may be inflectional (e.g. nouns) or intrinsic (e.g. personal pronouns).

The Chukchi number markings have two basic values, plural and non-plural (this plural is cognate with the dual of most of the other Koryako-Chukotian languages). The non-plural number commonly corresponds to 'singular', i.e. individual entities, but can refer to multiple entities as well. In general it is the grammatically

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unmarked number category, so things that typically occur in pairs or multiples are most commonly referred to with non-plural nominals (plurality is always an option; there are no singularia or pluralia tantum nouns). Strict singularity, particularly for entities which typically occur in pairs or multiples, can be indicated by the singulative suffix which occurs along with the absolutive case non-plural marker. Take for example the stem mane- *money* (a loanword from English), which has the following absolutive forms:

- plural: mane-t (money-3PL) money-several coins or banknotes
- singular/non-plural: mane-man (money-REDUP.3SG) money—one or more coins or banknotes, money in general
- singulative: mane-ly-a-n (money-SING-E-3SG) money—a single coin or banknote

For common nouns, all the sumber categories are neutralised outside the absolutive case (although plural vs. non-plural can still be marked by verbal cross-reference). Pronouns and high animate nouns don't use the singulative; for high animates there are inflections marking the other number categories in all cases except the equative. Personal pronouns have intrinsic singular or plural, that is, number is part of the meaning of the stem rather than an inflectional category.

Personal pronouns also have intrinsic person (first, second or third). Other nominals can be marked for person in the absolutive only.

4.2.1 Nouns

The noun is the major subclass of nominals. Morphological marking of nouns is very regular, and always includes case marking. A subgroup of highly animate nouns (including personal names and certain kin-terms and folktale personages) may take some different case and number marking strategies. This subgroup will be referred to as the *high animate nouns* (see below); the remaining nouns will be referred to as *common nouns*. Common nouns mark the number and person of their referent when in the absolutive case, but not elsewhere; high animates mark mumber in all cases except the equative.

Most loanwords in Chukchi are nouns, and these loanwords are easily naturalised so as to occur with all the expected morphology of a native noun. Many loanwords refer to foreign cultural items for which there is no appropriate Chukchi word. Most loanwords come from Russian, although there is an earlier set of loanwords from English (de Reuse 1994b). Contemporary speakers also use many spontaneous loans even where there is a perfectly acceptable Chukchi equivalent. This may be language mixing due to the largely Russian language medium environment that most contemporary Chukchis live in, or it may be experimenter effect, where non- or partial speakers of Russian attempt to put the Russian words that they know into Chukchi speech in an attempt to help non-native speakers. Apart from nouns formed from noun stems there are also nouns derived from other word classes, particularly adjective and verb stems (see §8.2, §§8.4-5).

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The 'high animate' subclass of nouns include : personal names (including named animals), kin terms used as terms of address, and demonstratives used with high animate reference. High animates are distinguished morphologically from other nouns by the following features:

- i) plural marking in all cases except for the equative (common nouns only mark plural in the absolutive; §6.2)
- ii) distinctive singular marker -ne-VH which collapses the ergative/instrumental, locative and (sometimes) dative/allative cases, and which occurs along with some other case suffixes (see §6.2)

The membership of the high animate class of noun is somewhat fluid; personal names are the only nouns which always pattern with high animates, whereas kin terms and demonstratives show variation, sometime patterning with high animates, sometimes with common nouns.

4.2.2 Pronouns

Chukchi has four pronoun subclasses;

- Personal pronouns
- Indefinite/Interrogative pronouns
- Quantifier pronouns
- Deictic pronouns

Pronouns all mark case and person, and mostly also number.

Personal pronouns have intrinsic person and number, and so do not use any of the person/number marking strategies that nouns and the other pronouns use. Personal pronouns may be first, second or third person, singular or plural. Personal pronount massionally take nominal derivational morphology (such as diminutives or begine statives) and also have a few derivational morphemes not shared by any communications. The personal pronount stems are (free absolutive form and non-absolutive stem):

	singular	plural
lst person	yəmo ~ yəm-	muri ~ mury-
2nd person	yəto ~ yət-	turi – tury-
3rd person	ətlon ~ ən-	ətri ~ əry- (men's)
		əcci ~ əcc- (women's)

Interrogative/indefinite pronouns can fill any nominal slot. Like other nominal subclasses, they appear in singular and plural, and occasionally take other nominal derivational morphemes such as diminutive and augmentative.

ABS ~ non-ABS stem

animate menin(e-) ~ mik- 'who' inanimate r?enut(e-) ~ req- 'what'

There are two quantifier pronouns; <code>əməl?o all</code> and various forms of the stem qut-, including absolutive singular qol *one/tile other*, absolutive plural qutti *some/the others*. The form qol can appear in a noun phrase as an appositional modifier meaning *one*, in which context it is interchangeable with the numeral **annen** *one*. These are however clearly members of different word classes—the forms of qutcan take cases and act as arguments, whereas numerals cannot (for morphosyntactic behaviour of numerals see §4.4, §§16.7-12).

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Deictic pronouns refer to an entity according to its spatial distance or discourse status. If the referent is animate, deictic pronouns may decline like high animates (§7.4). This is common in the plural, but rare in the singular, where deictic pronouns tend to decline like common nouns. Deictic pronouns can be incorporated into compounds, but rarely incorporate themselves.

4.2.3 Participles .

Participles are a word class (nominal subtype) but not a separate stem class. In their morphological structure they are nominals derived from verb stems. Their main distinction from other nominals is that they may occasionally take arguments. This is however nighly unusual, and I have no examples of speakers spontaneously doing so. There is a strong preference for participles to be formed from intransitive verb stems; transitive stems are often antipassivised before being made into participles. Participles do not differ significantly from nouns with respect to their combinatory possibilities with other nominal morphology (§8.2).

4.3 Adjectives

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It is necessary to distinguish the word class of adjectives from the stem class of adjectives. Adjective stems are the lexical head of adjective words ('free adjectives'), but also have other functions. The word class of adjectives is constrained to a few functions only (universal/habitual aspect predicates or attributes in absolutive case role): adjective stems are otherwise incorporated (§9.2.4, §16.2).

Free adjectives cross-reference person and number in a manner identical to verbs in the habitual inflection (§10.3.2). When other tenses are required, adjective stems are formed into adverb heads of analytic verbs (§4.5.1, §4.8.1, §16.5). Adjective stems functioning attributively are frequently incorporated into their headword in the absolutive case, and always in non-absolutive cases (§9.2.4).

The following example shows a predicative adjective with stem ciit be warm:

 001
 mecic?u
 n-a-ciit-gin
 uwi-kuk
 /
 n-ena-yto-gen

 sometimes
 ADJ-E-warm-3sg
 cook-pot.3sgABS
 HAB-TR-pull.out-3sg

 Sometimes the pot was still warm [when] he got it out.

[jo021]

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While free adjectives are formally identical to habitual aspect intransitive verbs (for example, in the third person singular they are both marked n-___-qin), there are clear formal criteria to show that adjectives are not intransitive verbs. These are as follows:

(i) Free adjectives cannot be marked with any of the the other tense-aspect-mood affixes that intransitive verbs can have (the perfect or any of the active inflections);

(ii) Derivational affixes are added to the outside of the adjective forming circumfix n-____qin(e-) (e.g. diminutive n-____qine-qej), but equivalent derivational affixes with intransitive verbs are attached directly to the verb stem, inside the markers of habitual aspect (e.g. diminutive n-____-qeet-qin). The derivational affixes used with adjectives and verbs generally have slightly different forms.

The criteria distinguishing adjectives and intransitive verbs are further discussed in §16.2.

4.4 Numerals

Numerals are a closed class formed around a base twenty system which allows well-formed numbers up to 419 (20 times 20, plus 19). The numerical system is not well understood by speakers today, who tend to use Russian numerals even when speaking Chukchi. There is a suggestion from some native speakers that counting above twenty may have always been arcane knowledge, beyond the mathematico-linguistic competence of most speakers.

Numerals have three morphological subtypes, simple numerals, compound numerals and analytic numerals.

SIMPLE NUMERALS

single numeral stems for 1 to 5, 10, 15 and 20. e.g. k>lyan-ken fifteen.

COMPOUND NUMERALS

compounded numeral stems giving 6 to 9, 11 to 14, 16 to 19, and for multiples of twenty up to 400 (twenty twenties). e.g. kəlyən-qlekken three hundred (i.e. fifreen twenties)

ANALYTIC NUMERALS

formed from the next lowest multiple of twenty, the remainder (a simple or compound numeral 1 to 19) and the word pacol/pacol extra. e.g. qlik-kin kəlyən-ken pacol thirty five (i.e. twenty [and] fifteen extra)

The word t?er/t?ec how many/so many is also a member of the numeral class according to morphological criteria.

Numerals do not mark case, although they can act as an S/O argument of a verb (i.e. as if they were absolutive nominals). Most numerals have a transparently

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nominal origin—some are formed with the -ken(a-) relational suffix. Numerals can take modifier roles. They can be part of an absolutive case NP, and are frequently incorporated (sometimes with absolutive heads, always with oblique case nominals). In this behaviour numerals are very similar to adjectives (see §§16.7-10).

Numerals have a small but distinctive set of word-class changing derivational affixes which only they can combine with. These form series of numerals including ordinal (-qew), multiplicative (-ce), human collective (-ryire), non-human collective (-jono), and distributive (-jut) (§16.11).

In Skorik's description of Chukchi, when an analytic numeral functions as a nonabsolutive argument there are instances of morphological marking which apply over the entire analytic numeral as if it were a single word. A good example is circumfixation; when phonological and grammatical words are coextensive no question arises, but when the grammatical word is an analytic numeral consisting of several phonological words the circumfix is resolved into a prefix for the first word and a suffix for the last $6 \mod 1$ th structures are not attested in the spontaneous data used for this discribution as Russian numerals have taken over all but the simple numerals.

4.5 Inflecting verbs

Verbs inflect to show the person and number of their core participants, which may or may not be expressed with nominals as well. Apart from person, number and grammatical role of core participants, verbs inflect to show tense, aspect and mood. Verbs are formally transitive, intransitive or both (labile).

Transitivity is marked by agreement patterns of the verb, although there are forms wherein transitive and intransitive are identical. The number of required or retrievable nominal arguments may differ from the number cross-referenced by the verb. Broadly speaking, there are six different argument structure types according to the root:

INTRANSITIVE

Zero-place (vi-)	mostly intransitives with incorporated S, some
One-place (vi)	meteorological phenomena
• • •	canonical intransitive
Two-place <i>(vi+)</i>	intransitives with an obligatory oblique adjunct (present
(or 'extended')	or retrievable from context)
TRANSITIVE	
Two-place (vt)	canonical transitive
Three-place <i>(vt+)</i>	transitive verbs with an obligatory adjunct, several
(or 'extended')	subtypes discussed §11.3.1.
LABILE (vlab)	verbs which may be either transitive or intransitive, and

are marked accordingly; this could be considered zero

derivation $vi \rightarrow vt$ or vice versa.

There are only two different transitivity values marked by verbal crossreferencing; transitive and intransitive. Incorporation of a core argument reduces transitivity by one place; incorporation of a non-core argument does not affect transitivity value.

Copula verbs are one-place or two-place intransitives. The oblique argument of a two-place copula is a nominal in the equative case. There are also grounds for positing a three place (extended transitive) copula (§17.1.2).

4.5.1 Analytic verbs

Analytic verbs are verbs consisting of two phonological words formed from an auxiliary (§4.5.2) and an uninflecting lexical head. The lexical head is usually a verb base, an adverbial form derived from the verb or adjective classes (§4.8.1-2). There is also a very small class of uninflecting, underived verb bases which function only as the heads of analytic verbs, for example layi know.

02	[]	track-3pIABS	qonpə always	<u>ləyi</u> know.Vbase	<u>n-ine-1y-ə-qin</u> HAB-TR-AUX-E-3sq	
	he	always know	vs their so	ent.	5	

[an015]

4.5.2 Auxiliary verbs and copulas

Auxiliary verbs mark the tense, aspect, mood and transitivity in analytic verb constructions (§17.3). They share many forms with the copula verbs. The copulas are:

wa-/-twa- to exist, to be (located)

it- to be

n?el- to become

The forms it- and n'el- also act as intransitive auxiliaries. The transitive auxiliaries are:

ləŋ-/-ly- AUX rətc-/-tc- AUX, treat as, make into rət-/-nt- AUX, have as

These forms are distinguished semantically and distributionally; the rətc-/-tcauxiliary combines with the transitive mental act forms (derived and underived) to give a resultative meaning, whereas the ləŋ-/-ly- form combines with the same forms to indicate non-resultative, stative meaning, e.g. gemo ləŋək *not know smth* and gemo rətcək *forget smth*. The rət-/-nt- auxiliary combines with verb bases in -(t)e and negative verb bases.

The verb lan-/-ly- also has a transitive copula-like function which is discussed in §17.1.2. The verbs rate-/-te- and rat-/-nt- also act as main verbs.

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4.6 Verb bases

The primary function of verb bases is to act as the lexical heads of analytic verbs (see §4.5.1). Verb bases can also act as adverbs. Derived verb bases may have positive polarity, indicated by means of the affixes -ytə, n-___-?ew, -u and -(t)e, or negative polarity, indicated by e-___-ke or lup-__-(t)e.

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The affixes $\gamma t and n$ -____-?ew respectively form an intransitive verb base from a verb denoting a property, and from an adjective stem (see deadjectival adverbs, §4.8.1).

The suffix -u derives transitive verb bases denoting various mental acts. These include yem-o not know (vt), cimy?-u think about (vt), emkum?-u care about (vt). Unlike other verb base forms, verb bases derived by -u cannot occur as adverbial modifiers.

Positive polarity verb bases of other semantic types than those sketched above (i.e. neither property verbs or mental acts) are marked by the suffix -(t)e, often accompanied by various derivational prefixes which further specify the meaning of the verb base.

The negative verb bases are derived by the circumfixes e-___-ke and lun-___-(t)e, which differ aspectually (§§18.2).

Most of the underived verb bases are identical in syntactic behaviour to verb bases formed with -u, and likewise denote transitive mental acts. The form layi *know* (vt) in 002 is an example. There are only a very small number of other such forms; Moll (1957:138) gives tenga *laugh at* (vt), although in Telqep Chukchi only an intransitive iterative (and possibly antipassivised) form tenga.tku-*laugh* is used.

Sporadically other adverbs and particles can act as underived verb bases, notably ujge the negative existential particle, and migkəri the interrogative manner adverb *how*?

4.7 Converbs

Converbs are defined morphologically as a deverbal word class defined by specific suffixation (-ma, -k, or -inegu), and syntactically by having the ability to function as adverbial subordinate clauses (§13.4).

Converbs can have nominal dependents in S, A and/or O syntactic roles, although this dependency is not marked on the converb itself in any way. Each converb affix determines the particular aspect and/or mood relations. The aspect and mood distinctions indicated by converbs can be lexically quite complex, and are not systematically (i.e. paradigmatically) structured.

Unlike other word class labels such as noun, verb, and adjective, which can be adopted in a linguistic description as appropriate without risk of controversy, the term 'converb' is perhaps not generally known within linguistics, and its use needs be justified. Notwithstanding Haspelmath's (1995) claim that converb is a valid cross-linguistic category, it still must be considered provisional. However the term has achieved currency in English descriptions of Chukchi, (e.g. V. Nedjalkov 1995, I. Nedjalkov 1998), and on language internal grounds Chukchi certainly does have a formally distinguished word class for which 'converb' is an appropriate term.

Apart from their distinctive syntactic functions (see §13.4) converbs can carry out general sentence modification. For example, ervatak is usually glossed as *tomorrow* (although it also means *the next day* relative to the discourse frame) and is treated as a temporal adverb (Skorik 1977:319). Its meaning is fully predictable from a morphological analysis of the form as a converb with the stem ervat- to dawn and the converb suffix -k--ka:

003 eryatok naw-a-n-ra-yt-at-y?e dawn-E-SEQ woman-CS-house-go.to-CS-TH The next day he brought the bride home.

[ke225]

[he029]

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4.8 Adverbs and particles

What follows is a rabble of mostly unrelated closed classes which have the common features of being uninflected for any of the nominal or verbal categories of person, number, case, tense, aspect, or mood. They mostly function as syntactically unbound modifiers. Adverbs are (arbitrarily) defined as the subset of these classes which are derived from stems of another word class, whereas particles are free morphemes with grammatical meaning. There are occasional instances of morphological derivation of particles, usually with intensifier, restrictive or diminutive affixes, e.g. teg-ujge *absolutely without* (ujge negative existential, tegintensifier), em-cinit *entirely oneself* (cinit *oneself*, em- restrictive), neməqej *also* (neme *also*, -qej diminutive).

4.8.1 Deädjectival adverbs

Deadjectival manner adverbs are formed from adjective stems by means of the circumfix n-___-?ew (§16.5), for example:

004	ənk?am and n-ə-le-qin HAB-E-go-3sg And from 1	· · · J · · · -	like miyciret-ə work-E-INF	<u>n-arojw-?aw</u> ADV-strong-ADV -k ngly in their work.
		and its inc peop	ne went stro.	ngiy in their work.

These deadjectival adverbs can form the lexical constituent of an analytic verb, i.e. they are also intransitive verb bases (§4.5.1). The lexical head of a comparative construction is formed by means of an adjective stem with the adverb-deriving suffix $-\eta$ (§16.6).

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4.8.2 Deictic adverbs

Spatial adverbs are derived from deictic and demonstrative stems by means of a series of different affixes. The stems are the same as those which form the deictic pronouns. While there are many clear regularities in the formation of the deictic adverbs, there are also gaps in the paradigms and unpredictable elements which show that these forms are quite lexicalised. The deictic adverbs show many of the same locational and movement categories as the oblique spatial cases, but for the most part they do so with morphological elements unrelated to the ones occurring with riominals (§15.4).

4.8.3 Underived time and manner adverbs

There are a set of underived adverb stems with lexical rather than grammatical meaning. They can be formally distinguished from derived time and manner adverbs, since the derived forms all function as verb bases or converbs as well. The majority of such forms have temporal meaning, e.g. I'elegit *during the winter*. The form 'alo is an underived adverb meaning *during the day*, it has an irregularly related form 'aloget which functions both as a noun *day* and as a verb *spend the day*. Other underived temporal adverbs include ajwe *yesterday*, yanmajep a while ago; telenjep long ago; wiin meanwhile; qonpa always.

005		r-ajwecy-ə-r PF-evening-E-IN(
	Evening had fallen a while ago.			[jo080]
006	yənon-qora-k middle-reindeer-LO He was alway.	j-	n-ə-twa-qen HAB-E-be-3sg dle of the herd	[ke169]

There is one temporal adverb tite *when?*, *sometime* indicating both interrogative and indefinite functions (interrogative and indefinite are formally identical for all adverbs and pronouns). The indefinite and interrogative functions of this adverb are illustrated in examples 007 and 008 respectively:

007	ənk?an and	INT	-ŋawtəŋ-y ⁷ e -E-wed-TH	tite sometime	
	Then g	et mari	ried sometime	e.	[cy167]
008	tite when?	ŋan DEICT	ŋotqen DEM.3sgABS	n-ə-qit-ə-qin? HAB-E-freeze-E-3sg	
	When a	loes !t I	freeze there?		[an109]

There are also temporal adverbs derived from verbs, adjectives, and nouns. Deverbal adverbs are actually converbs in adverb function (discussed §13.4), e.g. eryatək the next day (<eryat- to dawn), wulqətwik in the evening (<wulq- dark and -twi DEÅDJECTIVAL INCHOATIVE):

	apter 4			WORD CLA	SSES				73
009	then gew?e: wile-NM Then s	she said, th	igO w cit=?m lirst=EMPH <i>e she-dog t</i>	ew-?att?-a-q roman-dog-E-DII ra-tw-a-rl FUT-tell.abou hat is, the fi e evening [li	M-ERG k-ə-nen ıt-E-PROG	istress of	U be-E-P(wulq- O dark-E-I	CPL-ERG Ə-twi-k NCH-SEO	
Sor	ne tempo	ral adverb	s are stem	s with the	ending -	nit. whi	ch forms u	orde wh	1-1-
lun	ction as a	adverbs, no	ouns and v	erbs, e.g. el	enit <i>in</i> :	summer (adv.) sum	mer (n)	÷.
spe	na sumr	ner (vi.); I	'elegit in	winter (adv	v.), wini	<i>ter</i> (n.), 1	to spend v	<i>vinter</i> (v	'i.)
				(n.), <i>spend</i>	-				
010	l?elenii			adverb l?el		vinter.			
	winter.AD			l?alaget I-winter	[]				
	Thus [in the] win	er, all win	ter,				[kat	06)
Exa	mples 0	11 and 012	show l?e	legit <i>spend</i>	winter	and ?əlo:	net <i>spend</i>	day acti	ng
as v	erb stem	s:					-	•	0
011			a-1?elegit-q B-E-spend.wini		et-ə-k •E-INF	[]			
	first	they spend	the winter					[aa2.3	30)
)12	neme again	thus	?əloŋet-γ?e spend.day-TH	house-LOC	[]				-
		ne spent sud	-					[ot06	-
The ollo	same st wing:	ems can a	ict as und	erived nou	ns, for	example	⁹ əlonet d	<i>lay</i> in th	ıe
13	t?er how.much)		sgO					
1		any days di , ,						[na081:	
nan	ner adve	adverbs a rb i?am wh	re derived Iy is underi	(see §4.8.1) ived:	, but the	e corresp	onding int	errogativ	'e
14	ik-w?i say-TH	"q-ə-wiri- INT-E-desco			ko-nat	1			
	tumy-ə-t friend-E-3pi	<u>i?an</u>		l?at-y?a-t?"	•				
	•			d they kill y	'our frie	nds? Wh	y did they	die?" [ke05(0]
the	r underiv	ed manner	adverbs i	nclude a nu	mber w	hich exp	ress comita	ative-typ	e
elati	onships,	for exampl	e kənmal	together and	d ceeke	j togethe	r:	•••	
	qejwe truly	<u>kənmal</u> loccther		jw-ə∙rkən ∞am∙E•PROG			qejwe tuly		
	<u>ceekei</u> logelher	janor first							
	If we wei	e going out	hunting te	ogether, we	werit tog	ether firs	st.	(an019	"

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4.8.4 MP modifier adverbs

There is a small class of adverbs which can function to modify a noun phrase. Since noun phrases are invariably in the absolutive case, these adverbs seem to act in sentences like absolutive case nominals, and indeed, are sometimes interchangable with them. The NP modifier adverbs include a quantifier form campak the others, a reflexive cinit self, and a series of restrictive forms (e.g. amyamnan myself, by myself, amyanan yourself, by yourself, etc.). These forms are discussed in §§7.6.1-3.

4.8.5 Negative particles

Negative particles fulfil a number of syntactic functions. The particles qərəm/qəcəm and wanewan forms negative predicates with verbs in the intentional. The particle ange forms imperatives of prohibition with riegative converbs, and uine generally goes with nominals in the privative case (homophonous with negative converbs). These particles are treated in greater detail in §§18.2.1-2, §18.4, §18.8.

The negative identity particle garamena-/gacamena- comprises a word (sub-) class of also own. Its syntactic distribution is discussed in §18.3. This form marks the grammatical categories of person and number (in agreement with person/number of the predicate). It can not mark case, and does not form a rioun phrase with the elements it agrees with.

4.8.6 Proclausal particles

There are a number of particles which encode an entire proposition. These include ətr?ec~əcc?et that's all, welənkəqun thank you, and jewjew wait a minute!

016	eejl	jewjew!	eqəlpe	m-ə-yt-ə-nat	
	yes	wait!	quickly	1sg.INT-E-get-E-3plO	
	Yesl	Wait a mir	nutel I'll g	et them quickly	[cy307]

Negative particles (see §4.8.4) can also be proclauses, in which function they act as answers to polar questions, e.g. qacam~qaram 'no', 'it won't': wanewan 'no', 'it didn't'; ujne 'no', 'there isn't any'. The positive answer to polar questions is ii/eej 'yes'.

The non-inflecting word goro gimme is a 'transitive proclausal particle'. It can optionally take an absolutive case syntactic dependent representing the 'thing given' and a first person singular beneficiary assumed. For example,

017 goro titi-ŋə gimme needle-ABS Gimme a/the needle.

It functions as a variant of the inflecting verb ginejlay? i give me (smth), which is a form of the verb jal./-jl- give (see §11.3.1). The initial q of goro looks like the general imperative/intentional verb prefix, but this is probably coincidental (of course, even if the historical origin of the ${f q}$ is not related to the imperative verb inflection, the similarity in form and meaning to an imperative would support the grammaticalisation of the particle). Stebnickij (1994) shows that this word is probably cognate with a stem *qor hither which is also the origin of the ablative case suffix in some Koryak dialects.

Proclausal particles form a cline with interjections (§4.10), with proclausal particles being slightly more grammatically integrated.

4.8.7 Conjunctive particles

Conjunctive particles can join two predicates/clauses (§5.5.2), or join two nominals/noun phrases (§9.5.2). Conjunctive particles which join predicates/clauses can also introduce an entire sentence. Conjunctive particles may specifiy relationships such as causality (qeluq=?m because) or temporal sequence (qamel then).

The conjunctive particles are underlined in the following example:

018	<u>qamel</u> then	<u>ənqora</u> after.that	-		remk- folk-E-Al		•	en=?m /=EMPH	1	a-ŋ ⁷ o-ka NEG-hunger-NEG
	ye-n?el- PF-becom		tajŋat- lood-ABL	-		<u>ənk?aı</u> and	m	remk-ə-n folk-E-ABS=	=?m	gəmel
	loŋ-ə-cy NEG-E-INT			-NEG		-qin=?n be-3sg=E		<u>qeluq</u> = because=		ənqen DEM.3sqABS
	tejnet food.3sgAE		o-twa-qe B-E-be-3so							·
	•		•	,		ithout a	neea	from the	food	and the people

hardly slaughtered reindeer, because there was that food. [he065]

Note that anqora after that is also a regularly formed spatial deictic adverb from there (§15.6).

There are also conjunctive particles which are specialised as clause/sentence openers, e.g. anrag at this/that time.

019	anə SO	<u>ənraq</u> then	ŋenrilə thither	cejw-e walk-ADV	ənqen DEM.JsgABS
	ott-ə-pojy-ə-qaj			rənr-ə-nin	
	wood-E	-spear-E-DIM	l.3sgABS	take-E-3sgA.3sgC)
	So th	en he took	the wood	len spear [whi	le] walking there.

These do not seem to be any syntactic grounds for distinguishing subordinating and coordinating conjunctions.

4.8.8 Modal particles

There are a group of modal particles which are constrained to occur with a verb either in the future tense or (more rarely) the intentional or conditional mood.

75.

[ot064]

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These particles include cam?am, expressing inability and mecanka, which expresses sufficiency or ability:

020	cam?nm unable.MOD	mət-ra-jalyət-y?a 1pl-FUT-move.camp-TH	
	We can't m	nove camp	(nb080.2a)
021	mecənkə able.MOD	mət-ra-jalyət-y?a 1pl-FUT-move.camp-TH	
	We can mo	1 1	[nb080.2b]

These modal particles can also be used without a verbal complement:

022 ana n-a-rkaceciw-a-qin n-a-rkaceciw-qin ujne layen cam?am well HAB-E-chase-E-3sg HAB-E-chase-3sg NEG.EXI really unable.MOD Well he chased and chased, but they simply couldn't manage [to catch him]. [ot055]

4.8.9 Discourse particles

Chukchi is rich in discourse particles which give speaker evaluation of the truth value (evidentiality) of the clause, emotional influence of the action of the clause upon the speaker or clause participants, and/or intensity of the action. This type of particle is notoriously difficult to describe—they are rarely if ever syntactically obligatory, and they encode meanings difficult to unambiguously translate, lacking one-to-one lexical correspondences in the contact languages.

The emphatic discourse particle =?m is a clitic. Phonolgically it consists of glottalisation followed by a bilabial nasal. If it is joined to a word with a final vowel, the vowel is glottalised. For example cewaro=?m grey reindeer (EMPH) is pronounced cewar?om. If it is joined to a consonant final word a syllable is formed with an epenthetic schwa. For example, the pronounciation of remkəl?ən=?m guest (EMPH) is remkəl?ən?əm. The emphatic particle/clitic is very common, and seems to join to words of any word class; example 018 above is by no means exceptional, with seven instances of =?m, including two on nouns (tajŋatyəpə=?m food ABL, remkən=?m folk) three on particles (ləyen=?m really, ənqorə=?m then, qeluq=?m because), and two on verbs (nitqin=?m AUX, nətwaqen=?m be/exist).

4.8.10 Evaluative particles

The 'evaluative' subclass of particles has two members: ice good, excellent and 'etki(ŋ) bad, terrible. These particles function as clause/predicate modifiers in the same way as adverbs, but can also function as (unassimilated) attributes of nominals and as predicates in their own right. This makes them quite unlike any other class of words or stems.

These different functions are illustrated in the following examples. Example 023 shows the particle iee *excellently* acting as a sentence adverb, while in 024 it is a predicate.

Chapter 4			WORD CLASSES				
023	iee excellently		tay-nəmətwa-y?a-ı INTS-live-TH-3pl	:			
	They all	l lived exceli	lentiy.			[ot147]	
024	kol:o INTS	ləyen / really	Cəkwaŋaqaj personal.name.3sgABS		awer?-ep.at-y?a-n -clothing-dress-CS-TH-3sg		
		w-jaw-?e-n COLL-TH-3sg	/ <u>iee</u> ləyı excellent reali	en Ca	kwanaqaj sonal.name.3sgABS		
	And so t excellent	they dressed t.	'Cəkwayaqaj up, ti		ned him, Cəkwayaqa	was [cy243]	
Exai NP.	mple 25	shows the	evalutative particl	e ⁷ etki(ŋ) accing as an attr		
025	eqəlpe quickly	ra-yt-ə-y? house-go.:o-E	E-TH DEM.3sgABS	<u>?etkin</u> bad	<u>ənjiw</u> uncle.3sgABS		
	That bac	d uncle quic	kly went home		-	[cy326]	
4.9	Postp	ositions					

is resepositions

Chukchi has two postpostitions, qaca *near* and reen *together with*. They occur with a noun in the locative case, generally directly after it, but with rare exceptions (e.g. 028). Postpositions could be analysed as enclitics, since they intermittently trigger the consonant alternation $k \rightarrow \gamma/_$ C, which is otherwise a word-internal process (§3.3.1). Example 026 shows this alternation with the locative case form of the word *mother* (normally atl?ak):

026	<u>atl?a-y</u> mother-LOC	<u>reen</u> with.PP	n-ə-twa-qen HAB-E-be-3sq	one y	yiik year.3sqABS	
	It stays w	th its ma	other for one yea		, <u>,</u> .	[aa2.27]

The postpositions do not interact with vowel harmony (and thus there is no test to show whether reen is +VH or -VH).

4.9.1 Associative postposition reen

The word reen is a particle indicating association of human or human-like entities. The entities associated with are marked in the locative case.

Example 027 shows reen with a locative case nominal in the high animate plural form (high animate plurals are a rarity in spoken language; this example is from some prepared concluding remarks to a radio broadcast):

027	1?o-wəly-ə-ma see-RECIP-E-SIM	<u>UČENI-rak</u> scholar-LOC.PL	reen ank?ar with.PP and enjinm-a-t word-E-3plABS		n əmə also	
	kale-wetyaw-ma write-speak-SIM	ə ry-ine-t Sµl-POSS-3pIABS			1	
	meeting with sc	holars and read	ding the	ir words		

g with scholars and reading their words ...

However, in spontaneous texts reen is not invariably adjacent to the locative case nominal. Example 028 is a rare instance of reen with an non-adjacent locative case nominal:

[aa9.01]

<u>78.</u>	BASIC STRUCTURE							ter 4 Chaµter	
028	ənqen DEM.3sgABS <u>ke1?e-k</u> spirit-LOC	n-iw-qinet HAB-say-3pl q-ə-twa-rkən INT-E-be-PPOG	əngot thus <u>reen</u> with.PP	1	ənkə therc	yət 2sgABS	i	•	

They spoke thus, "You there, go live with the spirits!"

[ke068]

However, reen does not seem to occur in sentences without a semantically linked locative case marked element somewhere in it, which suggests that examples like 028 are syntactic phrases, even if they are non-contiguous.

4.9.2 Locative postpostion qaca

The locative postpostition qaca differs somewhat in its morphosyntactic behaviour from reen, as the former also exists in a number of derived forms (such as relational qacaken; for examples see §15.5). There is also a formally similar derivational suffix -ŋqac(a) which seems to share many of the same functions (§15.3.2).

4.10 Interjections

Interjections are words with are grammatically not integrated into the language. They generally express emotional content, such as surprise (okkoj, kako), distress ($^{\circ}o^{\circ}oj$), or pain (iik, iikaka). The interjection mej *hey!* is used for calling out to people, and is also combined with certain other interjections to emphasise the emotion expressed (kako mej! *hey wow!*).

5

Sentence types

5.1 Introduction

This chapter is intended as a brief introduction to the different types of clause and sentence found in Chukchi texts. Chukchi is a morphologically rich, nonconfigurational language, and at first glance Chukchi syntax offers a barren prospect to the linguist. Scholars of Chukchi have typically neglected it in favour of the fertile fields of morphology. Syntactic investigations have been situated more with respect to function equivalence to syntactic operations in other languages, which in the case of Chukchi inevitably brings in a large amount of morphology as well. Shorik's monograph, *Aspects of Chukchi syntax* (Skorik 1948), deals almost exclusively with the mixed morphological and syntactic phenomenon of incorporation. However, Chukchi is of course subject to levels of organisation larger than the word. While constituent order is relatively unconstrained, it is still not the case that any constituent order is possible—some constraints do exist and these constraints are amenable to structural description. There has hitherto been little published on the Chukchi syntax-pragmatics interface (§19).

The first part of this chapter discusses clauses. Clauses are a syntactic construct consisting of a highly grammatically integrated nucleus and a loosely grammatically integrated periphery. The prototypical clause is the BASIC VERBAL CLAUSE (§5.2). Clauses may differ from this prototype in a number of parameters. Sections §§5.3-5 deal with the other structural types of clauses observed in the Chukchi texts. Section §5.6 summarises how these structural types correspond to discourse functions; imparting information (indicative modality), seeking information (interrogative), eliciting an action or behaviour (imperative), or speaking as a pretended other (quoted susach).

The main syntactic unit used in this description is the SENTENCE. For the purposes of this grammatical description, the sentence is defined as coextensive with the PROSODIC PHRASE, a characteristic intonation contour encompassing a certain amount of syntactically and pragmatically related linguistic material including one or more clauses. As a level of analysis it has the advantage that it is explicitly marked in the phonological form of the utterance, and so avoids the risk of

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circularity/arbitrariness that can arise from analysing syntax on the basis of sentences, which are themselves the product of (more-or-less covert) theorising about syntax. The Chukchi prosodic phrase has many syntactic features which are structured over the domain of the prosodic phrase. These include:

(i) Tense and aspectual marking (§5.5.1)

- (ii) Argument sharing within the prosodic phrase (see below)
- (iii) Peripheral elements (for example, there are particles which only occur at the start of an prosodic phrase) (§5.5.2, §19.2.4)

Note that all these syntactic features are pragmatically motivated, and the separation of levels is not always so easy to achieve, since perception of intonation is influenced by the listener's syntactic competence.

The number of nominal arguments in a sentence, irrespective of the number of clauses, is limited. This limitation is imposed pragmatically; sentences generally have a focus (the newsworthy information that the sentence is communicating) and a topic (shared information which can be retrieved from verbal cross-reference without using overt nominals; see §19). The focus may be any constituent, but the topic is basically limited to referents (i.e. that which can be represented by a nominal).

5.2 Basic verbal clause

For the purposes of this work I define a basic verbal clause as an independent (i.e. inflecting) declarative verb, its syntactic arguments and associated peripheral elements. As a theoretical construct the basic verbal clause is useful as a point of departure in description—'non-basic' clauses are described in terms of how they differ from a prototype represented by this structure. It must be stressed that this type of structure, although common in context-free elicited language, is quite atypical in spontaneous speech. Example 001 shows a sentence from the corpus which is a basic verbal clause:

	-PERIPHERY-		VERB	<u></u>	
001	eryatək next.day	neme again	raytə-y ⁷ e go.home-TH	ənqen DEM.3sgABS	qora-nta-1?-ə-n .tindeer.herd.PCPL-E-35gABS
	The next	day that	herder again	went home.	[cy014

The constituent order of clauses is not fixed and core arguments are frequently referred to by verbal cross-reference (bound pronominals) alone rather than by overt, free nominals. For intransitive clauses all combinations of core S nominal and verb are attested; SV, VS and V. Discontinuous NPs are also attested, with the S interrupted by either the verb or by peripheral elements (§19.3.2). The verb is rarely discontinuous for the simple reason that phrasal verbs are uncommon in texts. Peripheral elements of various sorts, e.g. adverbs of manner, location, or time, speaker evaluation, and so forth, are common, but the periphery of a clause is

always—by definition—syntactically optional (certain non-basic clauses have obligatory peripheral elements of various sorts, see §5.3)

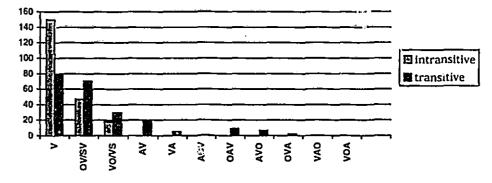
Basic verbal clauses built around a transitive verb have two argument slots, transitive subject/agent (A) and object (O).

	-PERIPHERY-		—CORE ARG. (A)—	VERB	
002	qənwer	jara-ly-ə-j:j-ə-n	ŋew-?ətt?-ə-qe-e	tejk-ə-nin	
	finally	house-SING-E-AUG-E-3sg.ABS	woman-dog-E-DIM-ERG	make-E-3sgA.3sgO	
	[Then they mo	ved camp], finally the bitcl	h made a big house.	[ke149]	

In spontaneous texts it is highly unusual for both A and O to have overt nomiral specification, and it is quite usual for neither to be present. All constituent orders are attested: V, AV, VA, OV, VO, AOV, OAV, AVO, OVA, VAO, VOA (the latter two are very rare, and are not attested in the data used for figure 5.1 below). Discontinuities only involve O, which is the nominal in the absolutive case and which can be specified by a noun phrase rather than by a single word.

Figure 5.1 shows the relative frequencies of the different constituent order/anaphora combinations for 223 transitive and 217 intransitive verbal clauses from narrative corpus. Note that the verb without any overt nominal arguments is most common, and that next most common is the verb preceded by O or S, then the verb followed by O or S. Combinations involving an overt nominal A are much less common.

FIGURE 5.1. Constituent order for transitive and intransitive clauses.



Comparison of the relative constituent orders of the core nominals of transitive and intransitive clauses suggests that Chukchi constituent order is not sensitive to the syntactic role of 'subject' (defined as a clustering of S and A); in fact, if there is any syntactic unit unifying the constituent order of core arguments it is a cluster of S and O. Overt A nominals are a statistically minor phenomenon. It should be noted that S and O are both marked by the absolutive case, and that absolutive case nominals seem to have the same discourse functions irrespective of their syntactic role (§6.3.1, §9).

The statistics in figure 5.1 include examples of quoted speech, which is atypical in that there is a much stronger tendency to overtly specify all arguments (the

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pragmatic motivation for this is discussed in §5.6.4 and §19.4). If quoted speech was removed from the database, the preference for zero or one overtly specified nominal argument would be even stronger.

5.3 Other independent verbal clauses

There is a group of verb stems which form non-basic clauses by virtue of requiring some kind of additional complement. For instance, the verb *pkir- arrive has an obligatory (although not necessarily overt) locative complement representing the place arrived at which may be locational case nominal argument, or may be a locational adverb. Another verb stem iw- say has an obligatory complement consisting a section of quoted speech; e.g.:

003	–ARG. (S)– ənjiw-qej uncle-DIM	VERB n-iw-qin HAB-say-3sg	COMPLE ətcaj-qaj-ə-na əunt-DIM-E-LOC	EMENT q-à-tkik-wi INT-E-stay.night-TH	[]	
	Uncle said "S	Stay the night	at your auntie's"			[cy027]

The major group of verbs which take an obligatory non-core complement are the copula verbs. The main function of a copula clause is to express a nominal predicate (the copula complement), but in the majority of instances the nominal predicate is accompanied by a copula verb which encodes verbal categories, such as tense, aspect and mood, and subject agreement.

004	[]	-ARG. (S)- ənqen DEM	COP. COMPL mejŋ-ə-wil-u big-E-price-EQU	COP. VERB n-it-qin=?m HAB-COP-3sg=EMPH	
	That was a lot of money.				[heO47

[he047]

The syntactic structure of copula clauses is described in §17.2.

There are also three types of verbless clause observed in the data, the zero-copula (§5.3.1), and the predicate adjective and possessed predicate forms (§5.3.2).

5.3.1 Zero-copula

The zero-copula clause is a minor structural type which occurs in alternation with clauses formed with copula verbs. Generally they are formed simply by omission of TAM-unmarked copula in locational and identity clauses, with all case-markings unchanged. However, zero-copula identity clauses also occur with the copula complement in the absolutive case instead of the equative. These forms are discussed in §17.2.4.

					83.
Telqep-ə-1?-ə-n Telqep-E-NM2R-E-3sı yəryolqaw-ə-qaj personal.name-E-DIM	et?əm	iyət now ŋan DEICT			
neməqej / ilso	Ukal personal.name		n-te		
	Telqep-E-NM2R-E-3sq vəryolqaw-ə-qaj ersonal.name-E-DIM neməqej / Iso	elqep-E-NM2R-E-3sg.ABS DEICT γərγolqaw-ə-qaj et?əm ersonal.name-E-DIM you.know aeməqej / Ukəl Iso personal.name	Telqep-E-NMZR-E-3sg.ABS DEICT now vəryolqaw-ə-qaj et?əm yan ersonal.name-E-DIM you.know DEICT neməqej / Ukəl Caca- Iso personal.name personal	elqep-E-NMZR-E-3sg.ABS DEICī now here vərγolqaw-ə-qaj et?əm ŋan Tel ersonal.name-E-DIM you.know DEICT Telq neməqej / Ukəl Caca-n-te lso personal.name personal.name-TH-	elqep-E-NM2R-E-3sg.ABS DEICT now here APPR-here γərγolqaw-ə-qaj et?əm yan Telqep-ə-1?-ə-n ersonal.name-E-DIM you.know DEICT Telqep-E-NMZR-E-3sg.ABS aeməqej / Ukəl Caca-n-te

In zero-copula clauses a fully inflected copula verb is aiways insertable, suggesting that these clauses are the result of ellipsis. My impression is that they occur much less commonly in careful speech (this would have to be confirmed by a more indepth study of speech genres than has been possible for this work).

5.3.2 Predicative adjectives and possessed predicates

Predicative adjectives in TAM-unmarked contexts have a special form, agreeing in person and number with their subject. This form is similar (but not identical; §16.3) to a habitual aspect intransitive verb. Likewise, TAM-unmarked possessed predicates can occur in a special form formally similar to the perfect form of the intransitive verb. The predicative adjective form occurs quite commonly, but the possessed predicate form is rare.

PREDICATIVE ADJECTIVE

006	?al-ə-yatya-jjj-ə-n cross-E-adze-AUG-E-3sg.ABS The axe was very big.	tey-n-ə-mejəŋ-qin INTS-ADJ-E-big-3sg.ADJ	[cy202]
Pos 007	SESSED PREDICATÉ ya-pənl-ə-more POSS.PRED-news-E-1pi		
	We have news.		[na104:9]
Adie	ctives are discussed in 60	16.2.1 possessed predicator in 617.4	

ussed in 3910.2-9, possessed predicates in \$17.4.

5.4 Dependent clauses

Converbs (§13.4) form the heads of dependent clauses. Participles may be analysed as forming the heads of relative clauses, although there is little evidence to show that these should be considered a special clause type (§8.2). Clauses joined by conjunctive particles cannot be shown to be syntactically dependent (§5.5.2).

•CONVERB CLAUSES. Converbs form the heads of adverbial subordinate clauses. There are three converb suffixes, as shown in the figure below. A gloss of the relationship of the adverbial clause (AC) to the main clause (MC) is given in italics.

CONVERB SUFFIX	TYPE OF ADVERBIAL CLAUSE
-ma	simultaneous (while AC, MC)
-k	sequential (after AC, MC)
-(i)neŋu	consequential (as a consequence of AC, MC)

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The verbal arguments in the converb subordinate clause do not have obligatory coreference with any arguments in the main clause. If there is coreference it is determined pragmatically. In example 008 the adverbial clause <code>genku ajwe</code> wama while there yesterday could be interpreted as referring to the speaker, the person she is talking about, or even the addressee.

008 ənk?am n-in-iw-iyəm Təlel?-o:o-n / and HAB-TR-say-1sg personal.name-E.VOC-ABS yenku ajwe wa-ma there yesterday be-SIM And I said to him, "TəlePən!", while [I/he/you] was there yesterday. [kr024]

Example CO9 shows an adverbial clause with matrix clause O coreferent with dependent clause S:

003	ləyen really	q-ə-yite-jw-ə-rkən INTS-E-look.at-COLL-E-PROG	ənqen DEM.3sgABS	pəcwetyaw-ma converse-SIM	
	You jus	[ka41]			

The term 'converb' is historically used in descriptions of languages of the Soviet Union-converbs are not substantially different from 'abverbial subordinators' described in other linguistic traditions (e.g. the 'dative subordinator' *yunda* in Yidiny; Dixon 1977). Converbs are discussed in §13.4.

•PARTICIPLE CLAUSES. Chukchi participles are deverbal nouns. They sometimes show signs of retaining verbal valency, but this is extremely rare in the spoken language. Evidence of participles having arguments is discussed in §8.2. Participles generally act as arguments and (absolutive case) attributes (§9.2.2).

5.5 Multiclausal sentences

Clauses can be joined by conjunctive particles. A distinction into coordinating and subordinating conjunctions is not very illuminating, and it is difficult to establish formal criteria to distinguish them. A conjunction like qeluq *because* (which cross-linguistically might typically be a subordinating conjunction) strongly implies some other proposition in a highly specific semantic relationship, whereas a conjunction like **ank?am** and (a typical coordinator) merely implies sequence in time. However, this cline in semantic dependency is not reflected by differences in syntactic structure. Whether coordinated or subordinated, a conjoined clause is marked by a conjunction which occurs either before (010, 012) or, more rarely, after it (011), and the conjoined clause itself occurs either before (011) or after the clause it is conjoined to (010). A clause with a conjunction can also occur as a sentence by itself (012).

Chapter 5		SENTENCE TYPES			85.	
010	1sg.INT-E- ne-yənto 3sg.INT-bro	BS wile-ERG w-at-y?a-n CS-breast-TH-TH-3sg	<u>am n-ə-jəl</u> 3sg.INT-	cot-tayn-ə-k cushion-EDGE-E-L om-r ² 0-1 ² aa-r hot-INCH-DUR-Pf <u>get-y²e-n</u> E-sleep-TH-3sg	rkən ROG	ber else he'll
011	<i>sweat. L</i> neme again <u>otcoj</u>	et him breathes muu-lqət-y?e-t caravan-set.off-TH-3 <u>ye-myu-təle-lin</u>	some fresh air ləyen // x realiy et geluq=?	and fall asleep m ya-pker-	- ə-ŋŋo-lenat	(cy405)
	•	PF-caravan-go-3pl : hey set off in a ca hor a long time,		se once they had	i travelled in	their [cy298-299]
012	ank ² am and angin thus	ənqen DEM.3sgABS qora-nm-at-ə-l reindeer-kill-TH-E-ll v to the present	EMPH-now-LIMIT k IF		always	abton o
	reindeer	•	ај ин мле 1	s aiways uius [i		[ke115]

5.5.1 Sequence of tenses

With the usual proviso that this description is primarily dealing with narrative data, the general tendency can be established that verbs have the same TAM values as the predicates of adjacent clauses, and over a sentence that is can be only one change in TAM.

The typical event frames in a narrative are realis:

Event frame	Tense sequence		
(change of) state → event	perfect∕habitual → aorist		
event → (change of) state	aorist → perfect/habitual		
event \rightarrow event	aorist → aorist		
(change of) state \rightarrow (change of) state	perfect/habitual → perfect/habitual		

Less realis contexts can involve:

state \rightarrow future event/state	habitual → future		
future event/state → future event/state	future → future		

86.	BASIC STRUCTURE Chapter 5
5.5	5.2 Intersentential and intrasentential conjunction
Cla	-
	uses and sentences can be coordinated using a range of conjunctive particles e also §4.8.7). The most common conjunctive particles for joining clauses and
pre	dicates are ank?am and and cama and (ank?am is freely used in nominal
con	junction, but nominal conjunction with cama occurs very rarely: §9.5.2).
013	· · ·
•.•	əngen ŋaw-ə-n-ra-yt-at-ə-ŋŋo-y?e / iw-nin / DEM.3sgABS woman-E-CS-house-go.to-TH-E-INCH-TH say-3sgA.3sgO
	ee nutkete qunece q-a-tkik-wi=?m oh along.here once INT-E-spend.night-TH=EMPH
	and INT-E-woman-E-CS-house-go.to-TH-PURP-TH
	So he started to take his bride home, she said to him, "Well, you'll stay one night along here and then take your bride home" [kc211]
D14	ənqen=?m ?ətt?-ə-qej q-ə-nu-rkən=?m <u>ənk?am cama</u> DEM.3sgABS=EMPH dog-E-DIM.3sgABS INT-E-eat-PROG=EMPH and and
	rətce-t re-melew-ŋ-ə-t <u>cama</u> re-melek-w?e əməl?-etə lung-3pIABS FUT-become.well-: H-E-3pI and FUT-become.well-TH all.ADV
	"So, you eat that dog, and your lungs will clear up, and you'll get completely better" [kr165]
Dth	er conjunctive particles are semantically subordinating (although there is not
ynt	actic distinction between conjunctive subordination and coordination).
	ig because
15	
	INTJ already PF-awaken-25g yes because=EMPH DEICT
	ənjiw-qej t-ə-ra-j?o-ŋ-ə-n" uncle-DIM.3sgABS 1sg-E-FUT-go.to-TH-E-3sg
	My goodness, you're up already? Yes, because I'm going to (relieve) uncle.
	(cy038)
vətl	ku only when
16	ənkə n-ə-jəlq-ə-l?et-qinet=?m ewət wətku n-ə-yjew-qinet there HAB-E-sleep-E-DUR-3pl=EMPH so only.when HAB-E-wake-3pl
	n-ə-natw-ə-qenat relko-ytə / om-etə ləyen ləy-om-etə HAB-E-carry-E-3pl indoors-ALL warm-ALL really INTS-warm-ALL
	They always sleep there and only when they wake up, they are carried inside into the warm into the really warm. [ch15]
~···1	· ····································
CY1 17	no sooner ecyi n-ə-qetəkwat-ə-ŋŋo-qen n-ə-lqut-qin no.sooner HAB-E-freeze-E-INiCH-3sg HAB-E-stand.up-3sg
	no.sooner HAB-E-freeze-E-lNiCH-3sg HAB-E-stand.up-3sg neme n-ə-cajw-ə-ŋŋo-qen again HAB-E-walk-E-INCH-3sg
	No sooner than she began to freeze she stood up, again started going on foot.
	[cy279]

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ewə 018	waj yər DEICT 1sg. Jare personal.name neməqej also	no / ABS .3sgABS / ŋe her	e ewət~ewər altı cake-qaj sister-DIM.3sgABS t-ə-piri-?e-n 1sg-E-take-TH-3sg lwəl əmə d.3sgABS too	[#] / ewat likewise t-a-piri- 1sg-E-take	cake-qaj sister-DIM.3sgABS uwequci-1qa1 husband-EQUIV -?e-n e-TH-3sg	ən-in 3sg-POSS.3sgABS
	It's me. Si taken a he:	ster I'v rd.	re taken [my] siste	er Jare ar	nd a flance for he	r too; I've also [ot143

When used as clause introducers several conjunctions can concern in one clause.

5.6 Modality types

Verbal inflections mark the grammatical categories of tense, aspect, and mood to form basic verbal clauses with realis (DECLARATIVE FUTURE and DECLARATIVE NON-FUTURE, HABITUAL/UNIVERSAL and PERFECT; §§10.2.4-5, PROGRESSIVE; §10.2.1) and irrealis (IMPERATIVE/ INTENTIONAL and CONDITIONAL; §§10.2.6-7) meanings. These clauses are formed by means of a verb or auxiliary, nominal arguments, and peripheral elements.

There are other grammatical modalities which are marked syntactically: NEGATIVE POLARITY is marked by a combination of grammatical particles and special verb forms (§5.6.1, §18.2). The INTERROGATIVE can apparently be marked by a special intonation contour alone (although this hasn't been adequately explored; §3.6), but may also have syntactic markers, such as interrogative pronouns, interrogative verbs or interrogative adverbs (§5.6.2). The IMPERATIVE is marked by use of the intentional mood or hortative negative particles, usually also by intonational characteristics of the emphatic/vocative prosody (§3.6.1, §5.6.3).

Chukchi discourse makes a lot of use of (direct) QUOTED SPEECH. The pragmatics a speaking as a hypothetical other leads to a number of grammatical differences between quoted and non-quoted speech (§5.6.4).

5.6.1 Polarity

Clauses can have positive or negative polarity. Negative polarity clauses differ syntactically from positive clauses in a number of ways, discussed in §18. In brief, negative clauses mark fewer grammatical categories on the verb and have different ways of marking negated nominal arguments. A negative verb may be marked by a negative particle and a negative verb base, such as in the following:

speaker 1: ənk?am n-ine-nu-qin? // 019 and HAB-TR-eat-3sg speaker 2: wanewan luy-nu-te 1 NEG.NFUT NEG-eat-NEG "And did it eat it?" "No, it didn't eat it"

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In negative clauses tense-aspect-mood categories, if marked at all, are marked by a verbal auxiliary (§17.3). Negative clauses can also be formed by a negative particle and an inflecting verb in the intentional mood; this structure neutralises mood distinctions and expresses tense by the choice of negative particle (§§18.2.1-2): ⁰²⁰ [] <u>garam</u> kela <u>n-a-jet-a-ni</u> NEG.FUT spint.3sgABS 3sg.INT-E-come-3sq <i>No spirit came!</i> [ke057] 5.6.2 Interrogative	Information sentences require a response introducing new information, rather than weight day or denying the truth value of a prior proposition. Information questions generally have an interrogative pronoun or adverb (e.g. migkəri how? below): 024 Cutpel?-ə-n=?m / Cutpel?-ə-n tag-?aqa-tw-ə-g ethnonym-E-3sgABS=EMPH ethnonym-E-3sgABS INTS-IMPOSS-say-E-ADV <u>migkəri</u> təw-kə? how? say-INF [The name] Cutpel?ən. Cutpel?ən is impossible to say [translate] how [would one] say it?
Questions (interrogative sentences) can be classified according to the type of	[kr057]
response they require. Polar questions are sentences which require a response giving the hearer's opinion of the truth value of the proposition contained in the question. The minimal response to a polar question is an affirmative or negative particle (see 021), but can also include repetition of part of the predicate (see 022): 021 speaker 1: cama n-ena-lye-n-wetya-at-jaw-qen // CONJ HAB-TR-INTS-CS-speak TH-INTS-3sg speaker 2: jinqej-qej? // boy-DIM.3sgABS speaker ii //	Information questions which expect vertal answers, i.e. what are you doing?, are formed by means of interrogative pronouns. The indefinite/interrogative stem req- (§4.2.2) also functions as an intransitive verb stem meaning do what? or do something. The transitive form (rəreqew- ~ -nreqew-) is derived from the intransitive by the causative affixes. The same roots are used as indefinite proverbs, meaning do something (intransitive) and do something (transitive). Proverbs agree in transitivity; a transitive interrogative pro-verb may not be answered by an intransitive verb, or vice versa.
yes	Examples 025 and 026 show the intransitive proverb reg- in interrogative and
"She also spoke to him for a long time" "With the little boy?" "Yes" [jo015-017] 022 speaker 1: nely-ə-n=?m etanə n-ə-yt-ə-qen ?aqa-njet?aw-ə-ŋ hide-E-3sgABS=EMPH probably ADJ-E-hard-E-3sg IMPOSS-process-E-ADV ləmewət wenləyi n-ə-njit?ew-qin? // or nevertheless HAB-E-process-3sg speaker 2: wanewan n-ə-njit?ew-ə-n taŋ-wanewan // NEG.NFUT INT-E-process-E-3sg EMPH-NEG.NFUT "The hide is probably hard, impossible to process, or did they nevertheless process it?"	indefinite functions: 025 ik-w?i n-ə- <u>req</u> -iyət? / wanewan say-TH HAB-E-do.what.'-> 1 NEG.NFUT He said, "What are you doing?"—"Nothing" [ke165] 026 ye- <u>r?e</u> -lin y-uget-lin ənqen cakəyet PF-do.something-3sg PF-collect.firewood-3sg DEM.3sg girl.3sgABS ənpənacyə-qaj-ə-ry-en / mik-ə-n-ti ətlon? old.man-DIM-E-PL-POSS.3sg who?-E-TH-3plABS INIER The sister was doing something, going for firewood; the old people's (girl). [aside] What were they called? [ot004]
"They didn't process it, they never did" [ab4.13-4.14]	Note the regular allomorphy req. ~ $r^{2}e$ - from the phonological rule Vq \rightarrow ?V /C;
Negative questions are formed the same way as positive ones. Negative polar	§3.3.1.
questions require a negative response when the respondent agrees with the truth value of the negative proposition.	Examples 027 and 028 show the interrogative and indefinite functions of the
023 speaker 1: magam umga mustuu tu tu tu tu tu	causativised (i.e. transitive) proverb:

027 ine-<u>n-req-êk</u>-w?i? INE-CS-do.what?-TH-TH

What are you doing to me?

028 ləyen ewət n-ena-<u>n-ray-aw</u>-ə-mγo-qen really so HAB-TR-CS-do.something-TH-E-INCH-3sg

But whenever he started to do anything to him with the spear

[nb052]

[ot109]

[...]

pojy-ott-a spear-wood-INST

023	speaker I: speaker 2:	naqam but	umqə polar.bear.3sgABS 	ŋutku here	lun·lejw·e NEG·walk-NEG	tite? sometime	//
	Speaker 2.	wanewan NEG.NFUT	1 <i> </i>				
	"But pola "No [they	r bears hav 'haven't]"	en't ever been se	en here?"		[an0	99-100]

.

à.

Q

. . **.** .

However, an affirmative particle would be a confusing response to a negative question unless it was accompanied by an alternative proposition.

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5.6.3 Imperative

The morphosyntactic category of intentional mood has imperative/hortative meanings as one of its major functions (§10.2.6). The following example shows two imperative clauses with intentional mood verbs (qiwarkan say it):

029 lay-?orawetl?a-mel q-iw-ə-rkən m²emi-i?-ə-n=?m ənk?am AUTH-person-ADV 2.INT-say-E-PROG bullet-NMZR-E-3sgABS=EMF+ and tann-ə-mel q-iw-ə-rkən əngen r?enut stranger-E-ADV 2sg.INT-say-E-PROG DEM.3sgABS something.3sgABS ənk?am qut-ti and other-3plABS In Chukchi say "Bullet folk" and in Russian say what it is. Then [say] the others. [kr037]

The intentional has a full paradigm of person number markings, and only the second person intentional is primarily imperative. Third person intentionals can have a hortative sense:

030 wec?əm ?ən-ə-n-jalyət-an-mə'x maybe INT-E-CS-nomadise-TH-1pl Maybe they'll give us a lift [With luck let thein give us a lift].

Inb043.A1

However the intentional is not only an imperative marker; for example, in the first person it is the most frequent way of expressing future/desiderative meaning, e.g.: A21

031	ənraq then	1	"ii yes	ratanjawyen enough	waj DEIĈT	1	7etki bad	waj DEICT	1
	mən-ra 1pi.iNT-ho	•	-	sinuri" I IpiABS					
	Then [t	hey s	said] "I	Enough of this!	It's no ge	od!	Let's go	home!"	

[cy387]

The intentional is also syntactically required when forming negative indicative sentences using negative particles (§§18.2.1-2).

Negative information questions (formed by an interrogative particle, interrogative/hortative intonation, and a negative clause) can have the force of a weak (and therefore polite) imperative, as in the following:

032	i?am why	kante-mk-ə-n Ioliy-COLL-E-ABS	cəmqək others	e•nr-ə-ke NEG-take•E•NEG	
	Why c	lon't you take son	ne of the lol	lies?	[kr238]

With different intonation/contextual clues example 032 could mean Why didn't you take some of the lollies, and without the question particle i?am it would mean You didn't take any of the lollies or Didn't you take any of the lollies? (depending on whether the clause had declarative or interrogative intonation).

5.6.4 Direct and quoted speech

Most of the data in this work comes from monologues, either traditional stories (folktales and historical narratives) or improvised narratives such as explanations

about nature or reflections on recent events. A major structural feature of the folktale is extensive use of quoted speech. Other genres make use of quoted speech as well, but to a much lesser extent. Chukchi does not have any mechanism for marking indirect speech; all quoted speech is direct, but quoted direct speech has srammatical differences from direct speech which is not quoted. Speech by an imagined other is marked as quoted in various ways: narrators use intonation, imitation of different voice qualities and, where appropriate, the use of different gender dialects. Sometimes discourse context or pseudo-turn-taking makes it clear who are the participants of some quoted speech. Alternately, the speaker and (sometimes) addressee can be cross-referenced on the matrix verb iw- 'say' with overt arguments, as in example 033:

033 ganwet га-үt-ә-ŋŋо-ү?е antuulpare-te iw-nin 1 finally house-go.to-E-INCH-TH brother.in.law-ERG say-3sgA.3sgO eryat-ə-k yən-in nelwəl q-ə-ret-y-ə-n dawn-E-SEQ 2sg-POSS.3sgABS herd.3sgABS INT-E-bnng-TH-E-3sq Finally he got ready to go home; his brother-in-law said to him "Bring your herd tomorrow". lut0821

Sometimes the roles of the pseudo-speaker and pseudo-addressee are identified by something in the content of the quote, such as the use of a proper name. In example 034 the verb niwon they said to him is ambiguous as to whether it's the boy Cakwanaqaj being spoken to or his uncle (both have high topicality, so we know that those two must be amongst the participants; no other participants have hitherto been mentioned, but real world knowledge of the logistics of reindeer herding strongly suggests that there will be other people around as well). Disambiguation comes within the quote itself, which contains a reference to 'your aunt', meaning that the only sensible interpretation is that the uncle is speaking to the nephew.

034	qonpə always	•	am-ənan REST-3sglNST	Cəkwaŋaqaj personal.name.3sgABS	ŋalwəl?-etə herd-ALL	//
	qənwet finally	ənqen DEM.3sgAB	ten-ənjiv 3S good-uncle			
	n-iw-ə-n INV-say-E-3sç	wən LTAI Ol	ne ənqen DEM.3sgA	ətcaj-qaj-ə-na BS aunt-DIM-E-ALL	opopə must	
	kiw-tumy- stay.night-frier		l ∙it-γi NT.2sg∙be-TH	1		
	Finally the	e good un	cle came to st	nself to the herd. and watch. tter go sleep at your	auntie's"	[cy021-

Usually however, a combination of these factors are present.

The database for this description also contains a smaller amount of conversation between native speakers, mostly in an interview frame where the younger person is seeking information from a knowledgable older person. Within the limits of the data obtained, it seems that conversation is structured quite differently to quoted

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speech occurring in folktales. There are some clear motivations for this; in a conversation the speech act participants are physically present and obvious to all, and the real participants in the discourse have a greater contextual involvement, whereas in quoted speech the hypothetical speech act participants need to be identified. A distinctive structural feature of quoted speech is the use of overt personal propouns to identify hypothetical speakers and hypothetical addressees (see §7.2). In non-quoted speech, overt personal pronouns are used in contrastive function and in certain set syntactic constructions, but not for pure identification of participants, which is carried out by verbal cross-referencing. Conversational data also gives the impression that tense-aspect-mood marking is used in a much less elaborated way than available morphology would suggest. In conversation there seems to be a tendency to use non-inflecting verb bases (without auxiliaries) rather than inflecting verb forms¹.

Conversation and even quoted conversation makes use of direct quotes, although not to quite the same extent as the folktale. Example 035 shows a direct quote used in conversational Chukchi:

035	yəriməl recently	in?e moming	ya-cajo-jya PF-tea-CONSU		•	nku=?m e=EMPH	ənqo then	
	?Omrəwəl personal.nam	~	y-iw-lin PF-say-3sg	ii-ii ouch!-ou	rch!	t-ə-lwav 1sg-E-be.u	v-ə-rkən nable-E-PROG	?are-k hold.on-INF
	opopa must		lajo-cqew-ə-l hit-PURP-E-1sg	k /	ii yes	5		
			ank tea there for a shit!"			จพจหนอบูล	aw said "Ow	-ow, I can't [kr223]

Examples 036-037 show nested quotes, i.e. direct quotes with direct quotes within them:

036	qənwer finally	teryat-y ⁹ e cry-TH		"i?am why	na but	qam	<u>in-iw-ə-rkən</u> INV-say-E-PROG
	'q-ena-jaa-y?e'?			qənwei	r	r-ine-	n-t?əl-ek-w?e"
	INT-INV-use-TH			finally	FUT-INV-CS-feet.pain-TH-TH		
	Eleallyb	a hundt Inta	*~~				

Finally he burst into tears; "Why did you say to me: 'Use me!'? You'll end up hurting me" [cy095]

¹ The point that Chukchi quoted speech is structurally different from conversation is not made by Nedjalkov (1994), who contrasts the frequency of use of various TAM forms in narrative and 'dialog' (quoted direct speech).

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037	n-iw-qir HAB-say-3 cama and q-ik-w-ə	ig 1sg-E t-ə-re-nju- 1sg-E-HUT-be -n	.on.watch-TH 'macənan	ənjiw-q uncle-DIM Cəkw	l.3sgABS vanaqaj	t-ə-r-ekwet-y?e î:g-E-FUT-seLoff-TH re-pkir-y?e / FUT-anive-TH ŋenku			
		re-nju-y?e' FUT-be.on.wat		person	al.name.3sç	pABS there			

He said, "I'll have tea, then I'll go; I'll be on night watch. [When] uncle will come, you say to him 'Cokwayaqaj's alright there, he'll do the night watch'"

[cy158]

6

Nominal inflection

Nominals are words which can act as arguments and which are grammatically specified for the grammatical categories of case, number and person. The nominal word classes are nouns, personal pronouns, indefinite pronouns, demonstrative pronouns, quantifier pronouns, and participles. Orthogonally to this syntactic word classification there are other classifying principles. Nominals are divided semantically into the animacy classes *common* versus *high animate*; animacy classes are reflected in different selection of inflectional morphology. Nominals can also be put into morphological classes according to how they form the absolutive singular. In this work *common nouns* are considered the prototypical nominal; they are the most numerous class and the most productive, and have the richest morphological possibilities. The significant and distinctive features of other nominals are usually clearest when described in terms of how they differ from common nouns.

6.1 Subclassification of nominals

Nominals can be subclassified according to their morphological combinatorial possibilities and syntactic restrictions, outlined below:

•NOUNS. This is the major subclass of the nominals. Nouns have all the prototypical features of nominals, and, unless specifically indicated, all nominal features discussed below are relevant to nouns. They can inflect for case, number, and person, and have by far the richest array of derivational possibilities, including semantic derivations, and word class changing.

The remainder of this chapter describes nominal morphology focussing on nouns (\$6.2-5). The other nominal subclasses are described in \$7.2-5 (pronouns) and \$8.2 (participles).

•PERSONAL PRONOUNS (§7.2). Personal pronouns have person and number as an intrinsic part of the stem, and thus do not take any of the usual person or number suffixes available to nouns. Although they rarely show the richness of derivation that nouns have, they do have many of the same derivational possibilities. Personal pronouns can incorporate possessors and be marked by derivational affixes for diminutive and augmentative.

•INDEFINITE PRONOUNS (§7.3). There are two indefinite/interrogative pronoun stems. These stems have an intrinsic animacy distinction; req- *what?/something* can only be declined like a common noun, and mik- *who?/someone* can only be declined like a high animate. In interrogative function these pronouns are used to form information questions answerable by a nominal.

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•DEMONSTRATIVE PRONOUNS (§7.4). These are the nominal shifters whose reference is determined by discourse context or spatial configuration rather than the semantics of the nominal expression itself. The spatial/demonstrative pronouns differ from nouns in that they may decline like high animates or like ordinary nouns depending on the animacy of their referent. The deictic pronouns are graded for distance, with not.qen(a)- this (here) (cf. nut- here) referring to the nearest entities, nan.qen(a)- that (cf. nen-VII there/that) referring to comparatively distant entities, and a number of others derived from the various stems indicating entities very far away, e.g. nan.qen(a-), non.qen(a-). The stems indicating 'very far' are not graded for distance with respect to each other.

The demonstrative on.qen(a)- has the same stem on- as the 3sg personal pronoun. Unlike the other demonstratives, it is not graded for distance. This form is specialised for anaphoric reference, and accounts for approximately nine in ten of the demonstratives occurring in spontaneous texts.

•QUANTIFIER PRONOUNS (§7.5). There are two stems, əməl'o all and qut- one, other (irregular absolutive singular qol). They both decline like high animates (§6.2); əməl'o is intrinsically plural, and may get plural agreement, but does not itself mark plural by affixation.

•PARTICIPLES (§8.2). Participles are nouns derived from verb stems. They differ from other derived nouns syntactically in that they have the possibility of governing arguments in the same way that a verb root would. There are four structural types:

Intransitive ste	atransitive Active (S-focus) e.g. tələ-l?-ə-n <i>the one going</i> (<təlo- <i="">go)</təlo->
	Passive (O-focus) e.g. təm-jo <i>the one killed</i> (<təm- -nm-="" k<="" th=""></təm->

Transitive stems

Passive (O-focus) e.g. təm-jo the one killed (<təm-/-nm- kill) Negative Passive (negated O-focus) e.g. e-nm-ə-kə-l?-ə-n the one not killed Transitive Active (antipassivised A-focus)

e.g. ine-nm-ə-l?-ə-n *the one who kills*

6.2 Inflectional categories: case, number and person

Nominal heads (i.e. nominals which are not incorporated or compounded) can be inflected for case, number and person, although number and person are not usually marked outside the absolutive.

The term *case* is used here in the widest sense, to refer to *grammatical case* as well as *semantic case*. The Chukchi grammatical cases mark a range of syntactic functions closely integrated with the verb and with clause structure in general, in contrast to the semantic cases which are nominal inflections indicating spatial relations or relationships of accompaniment.

The Chukchi grammatical cases are as follows:

CASE GRAMMATICAL FUNCTION absolutive S, O ergative A equative copula complement

The ergative case form actually has two functions; *ergative*, the grammatic _____ase marker of the A argument of a verb, and *instrumental*, the semantic case marker of the semantic role 'instrument' as well as marking certain oblique grammatical roles (§6.3.5). The *equative* is the obligatory grammatical case marker of the complement of a two-place copula verb, but may also have a non-core equative function 'as a...'.

The *locative* case occurs commonly as a minimally specific marker of spatial relationship (at'). The locative suffix -k is homophonous with the infinitive and the converb marker of sequentiality.

mongst the grammatical cases the *dative* is conspicuous by its absence. Although a dative/benefactive semantic role is distinguishable with certain verbs, there is little syntactic evidence that the dative case should be distinguished from the *allative*, and there is reasonable morphosyntactic evidence that it shouldn't. This issue is discussed in §15.2.2.

The analysis of Chukchi nominal morphology is further complicated by the existence of derivational affixes of similar function which coöccur with the aforementioned inflections, or which have a mixture of inflectional and derivational features. Within the functional domain of spatial relationships some relationships are expressed by morphosyntactic case markers (e.g. -jiŋkə *sublative, i.e. 'under*), others are marked by derivational suffixes which require an appropriate case suffix as well (e.g. to indicate *on top of* the derivational suffix **-tkən-***^{VH} *TOP* must be case marked with the locative). A further group is marked by the spatial postpostion qaca *beside, near* (§15.5)

Non-core case markers can look like derivational affixes or adverb markers. There are two basic criteria for affixes to be considered case markers; the morphological criterion that a case marker must be an affix of a nominal stem (i.e. a case marker

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is in complementary distribution with the core cases absolutive and ergative), and the syntactic criterion that a case marker must be able to mark an independent nominal within a clause which can act as an argument or adjunct (not necessarily a core argument) of a verb.

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The following shows these criteria applied to three spatial relationship affixes; (i) sublative, (ii) perlative, and (iii) inessive.

(i) The *sublative* marker can be shown to be in complementary distribution with core cases and with the other, non-controversial, case markers, e.g

meniy-jiŋkə under the cloth (sublative) meniy-e with the cloth (ergative/instrumental) meniy-ə-t cloths (absolutive plural)

Furthermore, other spatial cases cannot combine with the sublative; meniyjinks means *located under the cloth* and *to a position under the cloth* (i.e. it doesn't combine with locative or allative cases). The sublative is thus shown to be a case marker (§15.2.7).

(ii) The *perlative* is more problematic. It occurs in complementary distribution with case markers, e.g.

aŋqā-jekwe *along the sea* (perlative) aŋqa-k *at the sea* (locative case)

The same marker is also found combined with cases, as in the following:

moor?et-jekwe-k on caravan tracks (perlative + locative)

However, these two morphological functions can be shown to be formally separate when combined with a -VH stems and affixes such as weem-^{VH} *river* and -**k**-^{VH} *LOC*:

waam-jekwe along the river weem-jikwi-k on the length of the river

Thus, there are actually two affixes, -jekwe^{+VH} which is a perlative case marker, and -jikwi^{-VH}, which is a perlative derivational affix. Although these forms are clearly related, they are synchronically distinct (the diachronic source of the distinction between the case marker and the derivational affix is discussed in §15.2.4 and §15.3.4)

(iii) The *inessive* shows similar behaviour to the perlative; in some contexts it acts as a case marker and in some contexts it acts as a derivational suffix. The suffix -cəku can occur word finally for a locational meaning without the locative case:

retem-cəku inside the roof (inessive)

It can also be combined with case suffixes:

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retem-cəku-n *the inside of the roof* (inessive + absolutive) qora-cəko-jpə *from inside the reindeer* (inessive + ablative)

Unlike the perlative, the two functions of the inessive are not formally distinguished; -cəku-^{VH} is both a case suffix and a derivational suffix. This is treated as polysemy (§15.2.6, §15.3.5).

Other spatial affixes do not fulfil any of the criteria for casehood. The suffix -curmedge cannot mark an independent nominal without some other case marker to indicate its syntactic role. The notion of 'location on the edge of must be marked by the locative case, e.g. apqa-corm-ə-k on the edge of the sea.

Additional morphological evidence that a form is a case marker is also occasionally available; with semantically appropriate stems these markers take the regular forms to indicate high animate plural, i.e. they can mark the nominal categories of number and animacy, which can never be marked by adverbs.

According to these criteria the following cases can be added to the inventory:

SPATIAL locative allative ablative orientative inessive* perlative* sublative* ACCOMPANIMENT comitative associative privative*

* the cases marked with an asterisk were not part of Skorik's case inventory (1961:155-215).

The grammatical category of number can be marked only in the absolutive case of common nouns. High animate nouns mark number in all cases except the equative. Personal pronouns have number inherent in the stem, and do not use any further number marking. All other nominals can be marked singular or plural in the absolutive. There is also a singulative marker which can be applied to some nouns, giving a three-way distinction; *singulative, unspecified (singular)* and *plural*.

Apart from personal pronouns, nominals with non-third person reference occur in the absolutive only. The markings are the same as the pronominal suffixes used by adjectives and verbs. They are observed rarely, mostly with complex possessive roots.

The Chukchi case inventory is summarised below:

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FIGURE 6.2. Chukchi case endings and thematic s

Case	Case ending	HIGH ANIMATE Singular	HIGH ANIMATE PLURAL	PERSONAL PRONOUN
ABS PL.	- t -VH [1]	••	-nti [8]	-
ERG/INST	-e-VH [2]	•ne ^{•VH} # [6]	-rək/-cək-VH # [9]	-(n)an [13]
LÚC	•K-AH [3]	•ne ^{.VH} #	-rək/cək ^{.VH} # (10)	_ [14]
EQU	-u-VH	•n •••• (<*•ne•••)	** [11]	-kvH
ALL	-Ytə• ^{VH [4]}	•ne•VH# [7]	-rəkə/-cəkə-VH# [12]	-ka+VH#/-ka- (15)
ABL	-jpə ^{•VH (S)}	-	-r-/-cVH	-ka- (<*-keVH) [16]
ORI	-yjit ^{.vH}	-	-r-/-c- ^{.VH}	-keVH
INESS	-cəku ^{.vn}	-	-r-/-cVH	-keVH
PERL	-jekwe ^{+VH}	-	-r-/-c- ^{-VH}	-keVH
SUBLAT	-jikwə ^{.VH}	-	-г-/-с- ^{.vн}	-keVH
СОМ	үе•е ^{.VH}	-	-г-/-с- ^{.vн}	-kVH
ASS	γa••ma•₩°	-	-r-/-c ^{VH}	 -γ-· ^{∨H} (<*-k-·∨H) 17]
PRIV	eke-VH	-	-r-/-c ^{VH}	-k\H

KEY: ** Impossible combination: - No thematic suffix: # Terminal form (no additional suffix)

NOTES TO TABLE:

Notes [1]-[5] are statements of allomorphy; the remainder are explanations of regularities and hypotheses about underlying structure.

{ABS.PL} \rightarrow { -ti / VC_{+coronal}_ -t elsewhere

The coronal consonants are c, r, l, j, n and t (see §3.3); for example, ticjəc-ti thousands; coqat-te bread (loave)s (<coqar bread); kiikil-ti umbilical cords, ginqey-ti boys (<ginqej boy), rətən-te claws, gewəcqet-ti women.

[2]	{FRC}	\	{ -te- ^{VH} / V -e- ^{VH} elsewhere
[3]	(LOC)		$\int -k \partial^{-VH} / \sigma^{*}(C) VC_{-}$ (i.e. after polysyllabic syllable final stem)
	(LUC)		$\left\{ \begin{array}{l} -k \mathfrak{d}^{-VH} / \sigma^*(C) VC_ (i.e. \ after \ polysyllabic \ syllable \ final \ stem) \\ -k^{-VH} \ elsewhere \end{array} \right.$
[4]	(m m/)		-etə+VH / C
	{DAT/ALL}	→	{ -etə+ ^{vH} / C -ytə+ ^{vH} elsewhere
[5]			-epə / CC
	{ABL}	→	{ -epə / CC -yəpə / VC -jpə elsewhere
			-jpə elsewhere

[6] Although underlying *-ne-e would be realised as -ne because of vowel contraction, this form is better treated as unanalysable, since the usual postvocalic allomorph of the ergative is -te, which means that the predicted form would actually be the unattested *-nete. Note that the high animate ergative is identical to the high animate locative.

FIGURE 0.1.	Unukeni case	e inventory.	
			_

GRAMMATICAL CASES	SPATIAL CASES	ACCOMPANIMENT CASE?
al solutive ergative/instrumental equative	locative (at) allative (towards)	comitative (with) associative (with, part/whole)
equative	ablative (from) orientative (according to) inessive (inside)	privative (without)
	perlative (along) sublative (under)	

The grammatical cases are described in 6.3, the spatial cases in 6.4 and, more thoroughly, 15.2, and the cases showing accompaniment relations in 6.5.

Chukchi case morphology is very regular. All nominals take the case marking affixes listed in the table below. Three subclasses of nominals have additional thematic consonants or irregular endings. These subclasses are:

• COMMON NOUNS: Common nouns take the case suffixes in the leftmost column of the table below.

•HIGH ANIMATE SINGULAR: This semantically based subclass of nouns includes personal names (unique personal names are given to people, pets, some spirits and mythological figures) and kin terms used as terms of address. Demonstrative and quantitative pronouns can also be marked with hig's animate inflections when their semantic scope is the same as a high animate noun. The high animate inflections in the singular use a single suffix -ne^{-vH} to mark the ergative/instrumental, locative, and allative cases. In addition, the equative usesthis suffix along with the standard equative case suffix -u.

•HIGH ANIMATE PLURAL: This is the plural of the high animate category. The plural of a personal name is an *associative plural*, used to refer to the group that the person is the head of. The high animate plural inflections are marked with the thematic suffix -r-^{VH} or -c-^{VH} (men's and women's dialects respectively) prior to the case er ding. The ergative case has an irregular form -rək#-^{VH}/-cək#-^{VH}, which is identical to the (regular) locative -r-ə-k-^{VH}/-c-ə-k-^{VH}, and the allative has an irregulat form -rək#-^{VH}/-cək#-^{VH}/-cək#-^{VH}.

•PERSONAL PRONOUN: Personal pronouns in most cases inflect like common nouns but have a thematic suffix -ke- joining the stem to the case suffix. In the locative case personal pronouns inflect like any noun, and in the absolutive and ergative/instrumental they have slightly irregular forms (fig. 6.2, notes 12 and 14).

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[7] Moll and Inenlikej (1957:169) and Skorik (1961:186) both give two forms, $-na^{+VH}$ or $-na\gamma ta$. The recessive vowel harmony form $-ne^{-VH}$ which is identical to ergative and locative seems to be a feature of Telqep Chukchi (see §15.2.2 for example).

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[8] High animate plurals have the irregular suffix -nti. Note that the high animate singular thematic suffix is -ne-, so if the plural was formed with this (not implausible, since the absolutive plural otherwise patterns with forms unmarked for number) the expected form would be the unattested *-net. The form -nti is also not formed from an underlying high animate plural thematic suffix -r-/-c-, since underlying *r/c-t would be expected to give -tt- in the men's dialect and -cc- in the women's dialect.

[9] The thematic suffix for the high animate plural shows the r-c alternation between men's and women's dialects (§3.3.5).

[10] This could be treated as unanalysed syncretism with high animate plural ergative/instrumental -rək-VH#/-cək-VH#, or could be treated as a regular form with underlying *-r-k#/*-c-k# (thematic suffix + locative case)

[11] The equative cannot have number specification; it always inflects like a singular.

[12] Unlike the other high animate plural forms made with r/c and k, the suffix -rəkə/-cəkə has dominant vowel harmony, which suggests a historical derivation from a more regular form with the general allative suffix -ytə. See also the allative form of personal pronouns, note [15].

[13] Ergative markings are slightly irregular—all ergative pronouns are based on the oblique personal pronoun stem; in the 2nd and 3rd person singular these are suffixed with -an, and in 1sg and all the plurals the suffix is -nan.

lsg	Yəm-nan	Ipl	mory-ə-nan
2sg	yən-an	2pl	tory-ə-nan
3sg	ən-an	3pi	əry-ə-ñan/əcc-ə-nan

This seems to be a true irregularity. There are subminimal pairs which show that reduction of an underlying geminate in the hypothetical regular forms *yən-nan and *ən-nan is not a regular process; e.g. ənan (3sg.ERG) can be contrasted with ənnen one or ənnanmətləgen six, and yənan (2sg.ERG) can be contrasted with yənnik animal. However, the interesting thing here from a typological point of view is probably not that there is irregularity in the personal pronouns, but how little of it there is.

[14] Locative personal pronouns are formed without any thematic suffix: yəm-ə-k, yən-ə-k, ən-ə-k, mur-ə-k, tur-ə-k, ər-ə-k/əc-ə-k. The stems used with the plural locative forms are unusual (compare note [13]).

[15] Personal pronouns have two possible endings in free variation; $-k_{2}+v_{H}$, or the thematic suffix $-k_{2}-v_{H}$ plus the usual allative case ending, i.e. $-k_{2}-v_{1}$. The

dominant vowel harmony of the $-k a^{AAAA}$ form of the suffix suggests that it derives from a truncated form of $-k a_{AAA} ta$.

[16] This element gets its dominant vowel harmony from the basic ablative suffix $-jp_{2}+VH$.

[17] This -y- is underlyingly a *-k- (§3.3.1).

•DISCUSSION. These case endings are completely regular. The only morphological irregularities are in the markings of the absolutive singular. The absolutive singular markings are quite complex, with a mixture of lexical and morphophonological conditioning factors determining the appropriate form (§6.3.1).

Membership of the high animate declension class is somewhat fluid; personal names are always high animate, but kin terms are usually only declined with the high animates when the kin term is being used like an address term or when the kin term is used by a speaker to whom that kin relation actually applies—I decline **atla** mother as a high animate when I'm talking about my mother, but not yours. This is illustrated in examples 001 and 002, which come from close proximity in the same text. In example 002 the noun enjiwqej *uncle* (*DIM*) declined as a high animate in the quoted speech of Gap uncle's nephew, whereas the preceding example ?eqenjiw bad uncle is used by the unrelated narrator.

001	[] /	taŋ-qonpə INTS-always	ənqen DEM.3sgABS	?eqe-njiw-o bad-uncle-ERG	•	
	nalwii?.e herd-ALL	eta q-a-lqa INT-E-se	• 5	-	wa•rken be-PROG	
	the ba	d uncle alwa	ays said to hir	n "Go to the h	erd, be at the herd!"	[cy002]
002	qərəm NFC Fut	?etki qe			г-ела-ссәрсеж-ә-ү?а	

NEG.FUT badly truly uncle-DIM-E-AN.ERG FUT-TR-beat-E-PF "No, uncle will badly beat me" (cy006) Falking animals acting as protogonists in following an inclusion to the

Talking animals acting as protagonists in folktales are also declined as high animates, the reason once again being that the name of these animals can be considered as equivalent to personal names.

003 epeepe-qej-a-ne iw-nin / re-pkir-y?e spider-DIM-E-ERG say-3sgA.3sgO FUT-arrive-TH nalwal?-eta ne-re-rigiw-a-yat herd-ALL 3pl-FUT-send-E-2sg Spider for 'the spider' said "You'll arrive and he'

Spider [or 'the spider'] said "You'll arrive, and he'll send you to the herd" [cy213]

The high animate declension pattern is obligatory for personal names and the indefinite/interrogative pronoun mik- *someone/who?*.

Demonstratives can also be declined as high animates when they are acting as anaphors for nominals which would be declined as high animates. In the following example the demonstrative is declined in the ergative once as a high animate

(ənqenana) and once as a regular nominal (ənqenata), although in both instances it refers to the same entity:

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004	ŋenku there	wa-rkən be-PROG	?etkiŋ bad	•	-jŋ-ə-n er-AUĞ-E-ABS	ənqena-na that-AN.ERG	ənr?aq then	
	na-ra-pe 3A-FUT-atta	•	ənqer that-ER		ənqen DEM.3sgABS			
	There's a bad reindeer there, that o			hat on	e will attack	you, it will.	[cy214]

In the context this reindeer is highly individuated, and it later becomes companion and assistant (although, perhaps unusually for a folktale, it does not ever talk). The free variation in the choice of declension pattern reflects the lack of constraint on what would be the appropriate choice in this context. The following example shows another instance of the two declensional patterns being used to indicate a single entity. This is a rare occurrence of what could be argued to be an ergative case noun phrase The demonstrative pronoun angenacak is declined as a high animate, even though its head remke *folk* is not.

005	ənqena-cək that-ANpl.ERG	remk-e folk-ERG	ye-piri-lin PF-take-3sgO	1	uget-1?.ə.n collect.firewood-NMZR-E-3sgABS	
	ya-n-rayt-at-) PF-CS-go.home-(
	Those folk ki	dnapped ti	ne firewood-coi	lecto	r and took her home.	[ot006]

The possibility of ergative case noun phrases is discussed in §9.3 (including this particular example).

Absolutive case nominals can also be marked for (non-third) person by means of pronominal suffixes. These are illustrated with the demonstrative **gotqen(a-)** this in fig. 6.3:

FIGURE 6.3. Person marked nominals.

	Singular	Plural
First person	notqena-jyam this is me	notqena-more this is us
	(1sg: -jyəm, -iyəm)	(lpl: -muri)
Second person	ŋotqena-jγət <i>this is you</i>	notgena-tore this is you PL
	(2sg: -jɣət, -iɣət)	(2pl: -turi)

All first and second person pronominal suffixes are -VH. The allomorphs of the 1sg and 2sg occur after vowels (-jyəm, -jyət) or after consonants (-iyəm, -iyət). Person marked nominals are commonly used in zero-copula existential constructions (see §17.2.4).

6.3 Core grammatical cases

Grammatical cases show the grammatical relations of nominals in clauses. There are three core grammatical cases; *absolutive, ergative* and *equative.* The ergative case marks a nominal in A function, the equative marks a nominal functioning as copula complement, and the absolutive is the case for all other nominals in core

function, i.e. S of an intransitive verb or copula, and O of a transitive verb. The *instrumental* case is formally identical to the ergative, and so is treated here as well.

6.3.1 Absolutive singular

The absolutive singular of nouns is formed according to a number of different patterns. The choice of morphological pattern is partially lexicalised, but there are also significant regularities. Phonological form or morphological origin determines the choice of absolutive singular marker for most words. A global morphological constraint is that nouns cannot be realised as short-vowel monosyllables¹.

FIGURE 6.4. Strategies for marking absolutive singular of common nouns.

Ia.	Bare Stem
b.	Bare Stem, reduced final vowel
с,	Bare Stem, deleted final vowel
IIa.	Reduplication, monosyllable
b.	Reduplication, disyllable
III.	Suffix -n ^{-VH}
IV.	Suffix -ŋə ^{-VH}
٧.	Irregular

Types Ia (bare stem) and Ib (reduced final vowel) and IIa (reduplicated monosyllables) are mostly underived nouns. Type Ic (deleted final vowel) are frequently compounds of several different stems or zero derived nouns from verbs. Type IIb (reduplicated disyllables) are underived stems of a restricted phonological form. Type III (-n-VH suffix) is the functionally and morphologically unmarked absolutive forming affix. Most morphologically derived nouns take this suffix. Type IV (-ŋ-VH suffix) is an archaic absolutive suffix used with only a few stems. Type V is the residue, consisting of a small number of stems which have an absolutive which does not relate to the non-absolutive stem in a systematic way. In all instances of type V the forms are phonologically similar—some of the forms might be representatives of regularities with extremely low functional load.

All three of the type I morphological patterns are observed in the allomorphy of other (non-case marking or non-nominal) word final derivational affixes; thus, although they are in some instances overt markings, they are not specifically absolutive case markings.

Sometimes the structure of a word is obscured by other phonological processes. For example, the word j?aaq *seagull* is onomatopoeic—the noise a seagull makes is startlingly similar to the phonetic sequence [jaq]. A noun formed from a CVC stem is reduplicated, giving *jaqjaq (see type IIa, below), which is subject to further

¹ Long vowel monosyllables, such as j'aaq *seagull* discussed below, are all historically disyllables.

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regular phonological processes, glottalisation (Vq \rightarrow ?V / _C; §3.4.2) giving *j?ajaq, and then intervocalic approximant elision with compensatory lengthening $(V_1C_{\text{approx}}V_2 \rightarrow V_2V_2; \S 3.2.4)$ giving the surface form j?aaq in the absolutive.

Ia) BARE STEM. Most nouns which form the absolutive with a bare stem are consonant final.

iniryiŋ (sg.)	iniryiŋ-ə-t (pl.)	'blanket'
ajmak	۰ ajmak-ə-t	'carcass'
ilir	ilin-ti	'island'
_		

There are only a few examples of vowel final noun stems forming the absolutive with a bare stem with unreduced, undeleted final vowel. These are:

apa?ake (sg.)	apa?ake-t (pl.)	'newborn reindeer with undeveloped leg muscles' ²
areqaŋo	areqaŋo-t	'reindeer with a white backside'
cewaro	cewaro-t	'grey skinned reindeer'
ilyəl?u	ilyəl?u-t	'reindeer with a white face' (ily- 'white',
		l?u- 'look, see'; cf. l?u-lqəl 'face' lit. 'used
2		for looking')
?innəp?i	⁷ inuəp ⁷ i-t	'harpoon'
nanna	nənnə-t	'name'

There are also vowel final suffixes which can be terminal element of the absolutive singular (e.g. passive participle -jo §8.2).

Ib) BARE STEM, REDUCED FINAL VOWEL. This formation type only occurs with stenis ending in the vowel e-a (i.e. e^{-vH} or $a < *e^{-vH}$, but not e^{*vH}). The absolutive singular is formed by reduction of the final e-a to a. Reduction of word final e-a is a regular phonological feature of Chukchi (albeit with a few lexicalised exceptions: e.g. ergative suffix for personal singular nouns -ne^{-VH}; §3.5.4)³.

aŋqə (sg.)	ajjqa-t (pl.)	'sea'
walə	wala-t	'knife'
wopqə	wopqa-t	'moose'
makə	maka-t	'nappy'
nenenə ^{-VH}	nenene-t ^{-VH}	'child'
rərkə/cəccə	rərka-t/cəcca-t	'walrus' (men's/women's dialect)
umqə	umqe-t	'polar bear'

² This may be a fossilised form of the negative circumfix e-___-ke-vH. This word is phonologically exceptional (see §3.4.2).

³ Other Chukotian languages do not have this reduction. For example, the KoCh reflex of rarka/rarka- walrus is jajka in the absolutive singular.

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glottalisation in a reduction ⁴ .	final open syllable lose the glottalisatio	-			
ətl?a-t (pl.) kel?a-t	'mother' 'spirit, ogre'				
LETED FINAL VOWE	EL. There are no phonological restrictions o	n			
qəmla-t ewicu-t cenle-t ekke-t ətlenju-t nal stems undergo an impossible word i ds of compound nou	'bone marrow' 'bag for plant gathering' 'bo: 'son' 'younger brother' schwa epenthesis after the deletion of the final consonant cluster. ns often fall into this type, even when the				
There are a number of nominaliser suffixes which also delete their final vowels when they occur word finally (see §6.3.2).					
s to (C)VC stems, Ily also in the ab se the non-reduplica	which are reduplicated in the absolutive osolutive plural. Other case forms and ated stems.	•			
	reduction ⁴ . ətl?a-t (pl.) kel?a-t ELETED FINAL VOWN hay be deleted: wiwri-t (pl.) qəmla-t ewicu-t cenle-t ekke-t ətlenju-t inal stems undergo an impossible word ds of compound nou belongs to another) recet-wala-t (pl wen-qora-t r of nominaliser su rd finally (see §6.3.2) PLICATION. Chukch s to (C)VC stems, lly also in the at ise the non-reduplica	reduction ⁴ . atl?a-t (pl.) 'mother' kel?t.t 'spirit, ogre' ELETED FINAL VOWEL. There are no phonological restrictions o hay be deleted: wiwri-t (pl.) 'board for scraping hides upon' qəmla-t 'bone marrow' ewicu-t 'bag for plant gathering' cenle-t 'bo: ekke-t 'son' atlenju-t 'younger brother' inal stens undergo schwa epenthesis after the deletion of the an impossible word final consonant cluster. ds of compound nouns often fall into this type, even when the belongs to another type.) recet-wala-t (pl.) 'belt knife' <l< td=""></l<>			

Absolutive singular	Absolutive plural	Meaning
Wətwət* ^{VH}	wətwət-te	'leaf'
witwir	wirwir-ti	bark used for dyeing (cf wir-et- 'to dye'; -et is a verb-derivational suffix; §14.3)
[?] ec [?] ec ^{-VH}	?ec?ec-ə-t	gorbusha (fish species)
0000	ococ-te	boss, chief (also oc-a, oc-o)
nəmnəm ^{-vn} cotcot	nəmnəm-ə-t cotcot-te	settlement (also nəm-ə-twa- 'to be settled') cushion (incorporated as cot-)

This may be, or may recently have been, a productive process; compare the reduplicated forms:

This cannot be shown to be a regular phonological process, since Chukchi has few words ending in a schwa, and none of these are preceded by an underlying glottal stop.

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III) SUFFIX -n^{-VII}. This is the most common class for derived nominals, and is always used for derived nouns with non-terminal suffixes:

weriw-ə-c?-ə-nweriw-ə-c?-ə-tfoxberrysour-E-NMZR-E-3sgABSsour-E-NMZR-E-3plABSMany underived nouns also belong to this type:

kaara-n (sg.)	kaara-t (pl.)	sled for carrying baby and nursing mother
kemlilu-n	kemlilu-t	type of women's costume
nily-ə-n	nily-ə-t	'rope'
nanq-ə-n	nanq-ə-t	'stomach'
rojer-ə-n	rojer-ə-t	'family'
ətləy-ə-n	ətləyə-t	'father'

IV) SUFFIX -132-VH. A few high frequency nouns (this list may be exhaustive):

jara-ŋə joro-ŋə	'house' 'sleeping chamber' Note that these two forms are histori type IIa reduplication (see above)	cally
kuke-ŋə	'pot'	
qeme-ŋə	'dish' (stem qemeVH)	
qora-ŋə	'reindeer'	
rəpe-ŋə	'hammer' (stem rəpe ^{vH})	
titi-ŋə	'needle'	
әра-ŋә	'broth'	

Note that this suffix only occurs with disyllabic stems of the form (C)VCV-. Comparative data shows that the original form was *- pe^{-VH} (cf. type Ib for other examples of reduction of word-final e-a). This suffix is equally rare in Koryak and Alutor, but apparently has a much wider distribution in Kerek (Leont'ev 1983, Skorik 1968).

V) IRREGULAR ABSOLUTIVE SINGULAR. Irregular absolutive singular forms are very rare. All examples seem to be partially suppletive; possibly some of the forms are the result of minor phonological processes or dialect mixing.

cakəyet (sg.)	caketi-ə-t (pl.)	'sister'
nəkirit	nəkit-ti	'night'
yatte	yatya-t	'adze'
yatle	yalya-t	'bird'
wetlə	welw-ə-t	'raven'
wonnə	worwə-t	'spoon'

There are a number of irregular forms ending in -nə. The following two forms could be examples of underlying *-nə with regular dissimilation $n \rightarrow n / \gamma_{-}$ (53.3.4); this would have to be an ordered rule, since the γ is from underlying j, and majn- is an attested stem.

ŋеγ-nә− ^{∨н}	'hill'	ŋaj-ə-tkən	'hill', 'top of hill	
may-nə	'store, stash' (n)	maj-ə-k	'store' (vt)	

jit-jit (sg.) jit-ti or jitjit-ti (pl.) 'drop' (e.g. of water) jən-jən jən-ə-t or jənjən-te 'fire'

The words jara-ŋə house and joro-ŋə sleeping chamber both have stems which were originally reduplicated, but which have undergone a historical process of dissimilation whereby multiple instances of r in a word are avoided (compare Palana Koryak rara-ŋə, roro-ŋə Zhukova 1980). The elements ra- and, less commonly, ro- are still encountered as incorporated or compounded forms, e.g. raytə- (house-go.to-) go home.

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IIb) PARTIAL REDUPLICATION. Stems which are underlyingly disyllabic can form the absolutive singular by partial reduplication. The glottalisation prosody is also considered for the purposes of syllabification; the final glottalisation prosody (a syllable prosody, indicated here by the segment ?) is realised as a prevocalic glottal stop, so a schwa in epenthesised to any stem ending with glottalisation to preserve phonological well-formedness. For example, the segmental and prosodic phoneme sequence /km?/ must be syllabified as the disyllable kom?o (see below).

In the process of reduplication the sequence CVC from the beginning of surface form of the stem is copied to the end (if there is no initial C then just VC is copied). The following figure shows reduplicated (absolutive singular) and non-reduplicated (any other, here absolutive plural) forms:

CV	Absolutive	Absolutive	Meaning .
skeleton	singula:	plural	
C.C ⁷ V.CV VC.C CV.CV CV.C ⁷ V CVC.C CVC.C	kəm ⁷ ə-kəm eme-em irw-ə-ir weni-wen j‼?e-jil tanŋ-ə-tan jokwa-jow	kəm?-ə-t eme-t irw-ə-t weni-t jil?e-t tanŋ-ə-t jokwa-t	'worm, caterpillar' suxostoj (type of tree) 'something sharp, an edged weapon' 'bell' 'arctic ground squirrel' 'stranger' 'eider duck' (underlying form is apparently *jowγa; *γw → kw see §3.3.4)

Note that this type does not include stems with the structure VC or CVC—these go into type IIa. Glottal stop is best analysed as a syllable prosody outside of the CV structure (§3.4.2). The glottal stop only occurs prevocalically, and is not carried over into the reduplicated syllable unless there is no initial C.

C7 V.CV	w ⁷ are-war	w ⁷ are-t	'forked stick'
C? C.C	m ⁹ əcq-ə-məc	m ⁹ əcq-ə-t	part of reindeer leg
? V.CV	?itu-?it	?itu−t	'goose'
? V.C? V	?er-?er	?er?a∙t	'iceberg' (underlying form of singular
			is *?er?a-?er; §3.2.3)

None of the stems which undergo total (type IIa) reduplication have the glottalisation prosody.

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The following two stems are completely irregular; there is no productive phonological or morphological process which causes deletion of non-intervocalic consonants.

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?i-nə	'wolf'	?iγ-ə−t	'wolves'
ti-nə	'goad'	tiw-ə-t	'goads'

In all four of the preceding examples the suffix -nə appears to be in complementary distribution with -ŋə, with -nə used with (underlyingly) consonant final stems, and -ŋə with vowel final stems.

The next two examples are similar to words formed with the $-n^{+VH}$ #/-nwa-*VH derivational suffix (which makes deverbal nouns with meaning of place where VERB happens):

wanə	wanwə•t	'place'
winə	winwə-t	'track, trace'

The form wanə is almost a semantically and phonologically regular formation from #wa-/-twa- 'be located'—the only irregularity is the final schwa, which might be inserted to avoid making a monosyllabic noun (Chukchi has no monosyllabic nouns). The form winə is semantically appropriate to belong to this class, but vowel harmony is violated, and there doesn't seem to be a stem wi- (the verb 'track, trace' is winw-et-, formed with the -et verb derivational suffix; §14.3).

6.3.2 Absolutive forms of nominal derivational suffixes

Certain nominal derivational suffixes determine the morphological class of the derived noun, for example;

- (Ia) Bare stem: -qej#/-qej-^{VH} diminutive suffix, e.g. ənjiw-qej dear uncle ABS, ənjiw-qej-ə-ne dear uncle ERG
- (Ic) Bare stem, deleted final vowel: -nen#/-nene--vH derives a term for a tool, e.g. rine-neng aeroplane ABS, rine-nene-te by aeroplane INST (< rine fly)</p>
- (III) -n^{-vH}: -tkən-ə-n#/-tkən-^{vH} the top of something, e.g. orw-ə-tkən-ə-n the top of a sled ABS, orw-ə-tkən-ə-k on top of a sled.
- (V) Irregular: for example, -n#/-nwə-*VH, derives place noun from verb, thus talan path, tala-nwa-k on the path LOC (< tale- go)</p>

The bare stem, reduced final vowel type (Ib) is not attested with nominals⁵. Reduplication (IIa-b) and the -ŋə suffix (IV) are incompatible with derivational morphology. Derived forms from these morphological classes regularly enter class I (bare stem), with the final vowel deleted where one is present.

6.3.3 Singulative

The number category of 'singulative' is only marked on nouns in the absolutive case. Nouns marked with the singulative have the common semantic core that they are prototypically non-individuated and have to be 'singulativised' to get individuated. Typical examples are listed below contrasting the (absolutive case) singulative form with the absolutive plural:

paired body parts

welo-ly-ə-n, wilu-t 'ear/s' rel-ətləŋ-ə-n, ril-ti 'wing/s' paired items of clothing plak-ə-ly-ə-n, plek-ə-t 'shoe/s' paired objects small birds and animals melota-ly-ə-n, milute-t 'hare/s' things that occur collectively aŋat-ləŋ-ə-n, eŋer-ti 'star/s' romo-ly-ə-n, romo-t 'flotsam' ropes, strings etc wəjo-ly-ə-n 'sling cord'

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payt-ə-ly-ə-n, payt-ə-t 'sled runner/s' berries, grains

oon?-ə-lɣ-ə-n, uun?-ə-t 'berry/ies'

The singulative morpheme does not occur with noun stems outside the absolutive. This suffix can be shown to have the underlying form *- I_{J} ·VH -ə -n·VH where -n·VH is the usual ending for derived nouns (cf. type III) and *- I_{J} ·VH is realised variously as -lγ- or -ləj-. These suffixes are phonologically conditioned allomorphs:

 $\{\text{SINGULATIVE}\} \rightarrow \begin{cases} -lə \mathfrak{y}^{*VH} / VC_{*coronal (underlying)} \\ -l \mathfrak{y}^{*VH} \text{ elsewhere} \end{cases}$

The conditioning environment VC_{+coronal} refers to the underlying form; stems ending in j (which is + coronal) take the -lap^{+VH} suffix, even though the j itself is realised as γ when it occurs before I (according to the regular rule j $\rightarrow \gamma / _C_{+coronal}$; §3.3.4). For example, the singulative form of the word epeepej^{-VH} spider is apaapaylapan.

There is also a special form -tləŋ-*^{VH} which only occurs with stems of the form #CVC(C) which refer to paired/non-singular body parts (human or animal), e.g. par-ə-tləŋ-ə-n shoulder, par-te shoulders. This suffix is maintained even when compounding disrupts the canonical CV structure of the stem, e.g. jaal-rəly-ə-tləŋ-. ə-qaj (hind-finger-E-SING-E-DIM.ABS) toe (compare rəly-ə-tləŋ-ə-n finger-E-SING-E-ABS).

Occasionally the singulative suffix is found with suffixes which fuse absolutive singular meaning with some other. The diminutive is such a suffix. Thus, beside kəm?-ə-iy-ə-n (worm-E-SING-E-3sgABS) *a (single) worm*, there is also the form kəm?-ə-iy-ə-qaj (worm-E-SING-E-DIM.3sgABS) *a (single) little worm*.

6.3.4 Absolutive plural

All common nouns have an absolutive plural. There are no singularia tantum, pluralia tantum, and there are no irregular plurals. The absolutive plural is usually formed with the suffix -t, but it has an allomorph -ti which can occur after

⁵ The -ka#/-ke-^{VH} thematic suffix for deictic adverbs also acts in this way, e.g. miŋ-ka where, miŋ-ke-te along where

-	-	-
•		2
- 1		1

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coronals (i.e. t, r, c, j, n). Within this phonological condition, selection of -t or -ti seems to be lexical.

+coronal

$$\{\text{absolutive plural}\} \rightarrow \begin{cases} -\text{ti-VH} / \text{C+coronal}_{-\text{t-VH}} \\ -\text{t-VH} / \text{elsewhere} \end{cases}$$

Example:

006 gelug=?m l?u-nine-t nenku tann-ə-warat jara-mk-ə-in-ə-t because see-3sqA-3plO there stranger-E-FOLK house-COLL-E-AUG-E-3pIABS Because he saw there the stranger-folk, the group of big houses. lot0631

High animate nouns form their absolutive plural in the same way, but with the post-coronal consonant form -ti of the plural following the high animate thematic suffix *-r-VH, which gives a plural with surface form -n-ti (see note [8] to figure 6.2).

007	anə	ləγen=?m	waj	nən	i-ə∙twa-γ?a-t	kol:o	iee	ləyen	1
	50	really=EMPH	DEICT	live-E	-RESULT-PF-3pl	very	excellent	really	
	ənkə	Cəkwaijad	laj-9-n-1	tè	ləyen				
	there	personal.nam	e-É-AN-3	DIABS	really				
	And s	o thus they l	ived, ju	st exc	ellently Cakwa	njaqaj's p	people thei	re.	[cy443]

Plural used with a personal name is an associative plural, indicating the named person and his or her household. Plural terms for father and mother can both be used to refer to 'parents', e.g. atlay-a-t fathers or parents, and atl?a-t mothers or parents. Other terms for humans which imply one sex or the other in the singular also show this behaviour, e.g. anpanacyan old man, anpanacyat old man, old people.

6.3.5 Ergative/instrumental

The ergative and instrumental cases are formally identical in each of the inflection types, but they have different syntactic functions. Examples 008 to 011 show the ergative case marked on a common noun, a happendimate noun, a personal pronoun and a quantifier pronoun with high animate plana reference. Examples 012 to 017 illustrate instrumental uses.

COMMON NOUN

008	рә ker-ә-ŋŋо-ү⁷а-t арргоасһ-Е-INCH-PF-PL	ewən but	orw-ə-tkən-ə-k sled-E-ON.TOP-E-LOC	naryən outside	1			
	Cəkwaŋaqaj personal.name.3sgABS	<u>ŋew?en-e</u> wife-ERG	n-ine-mlu-qin HAB-TR-delouse-3sgO					
	They started approaching, but on a sled there outside Cakwanagaj is be							

eing deloused by his wife [it. the wife is delousing Cakwayaqaj]. [cy364]

	pter 6 NOMINAL INFLECTION	11:
HIG	H ANIMATE	
009	[] j?a-məny-ə-l?-ə-t neməqej / rəpet=?m kejŋ-ə-t quick-hand-E-NMZR-E-3pIABS also even=EMPH bear-E-3pl.	ABS
	talwa-rkəpl-ə-nm-ə-tko-ta caj <u>Təŋawie-iŋ-ə-rək</u> INTS-hit-E-kill-E-ITER-CONV DEICT personal.name-AUG-E-3pl.ERG	
	[] They had quick hands too—oh, those people of Təŋewji's struck an bears!	nd killed [kr132
PER: 010	SONAL PRONOUN n-iw-?e-n / opopə ŋelwəl <u>moryənan</u> mən-yənrit-ə-n 3-say-TH-3 musy herd.3sgABS 1pl.ERG 1pl.INT-guard-E-3sg mən-piri-?e-n 1pl.INT-take-TH-3sg	1
	They said: "We'll have to guard the herd, we'll take it"	[ka04
QUA: 011	NTIFIER PRONOUN qut-ə-rək=?m omk-ə-ly-ə-n n-ə-kəlw-ə-qin ənqen one-E-ERG.PL=EMPH forest-E-SING-E-3sgABS HAB-E-tie.up-E-3sg DEM.3sgABS Others tie up the tree	i

tactic roles within the sentence. Most commonly it is the marking for nominals with the semantic role instrument, which is prototypically the means by which an action is carried out; see examples 012 and 013.

012	cama and	ləyen really	carric other	lsk		pk-ə-lwi- ıkie-E-cut-3p		<u>pojy-ə-qa-a</u> spear-E-DIM-INST		
	And he	i just cut	the oth	iers'	ankles wi	th his litt	le spear.		[ot074]	
013		ry-ə-jŋ-ə- IZR-E-AUG		1	<u>ÿily-e</u> cord-INST	əngin thus	ya-nə PF-clos	mŋətaw-len e-3sg	[]	
	The big	, hole the	ey close	d up	o thus with	a cord		-	[cy393]	

For semantic reasons nouns marked with the instrumental case are most commonly inanimate; this is not however a syntactic restriction. In particular, passive participles may have an underlying agent specified in the instrumental case (note however that although the agent of a passive particple is a non-core role this function is very close to the ergative; §8.2).

Because of the ubiquity of ellipsis in Chukchi, most examples of the instrumental do not have contrasting ergatives in the same sentence, although, as in the preceding two sentences, different arguments in A role are retrievable from the wider discourse context. Contrasted ergatives and instrumentals are however freely elicited, as in example 014:

014	ajwe yesterday		na-n-qame-twa-a-mək 3A-CS-eat-RESULT-CS-1piO	<u>tekicy-e</u> meat-INST	<u>ŋewəcqet-te</u> girl-ERG	
	Yesterda	ly the gir	l fed us with meat.			[na120:2]

Examples 015 and 016 show instrumental nouns in intransitive clauses, where they could not possibly be interpreted as being ergatives.

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015	n-ə-macaw HAB-E-fight-E-I	-ə-l?at-qenat DUR-3plS	teŋem only	<u>tinur-e</u> bow-INST	
	They fough	t a lot, just us	ing bows		[kr045]
016	ənqen DEM.3sgABS	<u>ten-wər-yər</u> INTS-rumble-NM		kəjek-w²e-t wake-TH-3pl	
	From that i	rumbling and	roaring	they woke up.	[ke144]

Certain lexically determined oblique arguments of intransitive verbs are marked in the instrumental. The oblique object of verbs of consumption (i.e. the thing consumed) is regularly marked with the instrumental. For example, the intransitive verb **game**- eat has an optional instrumental argument marking the thing eaten, as in 017.

keni-ir?-e ya-qame-twa-lenat 017 ləyen=?m em-ə-r?a-gəmce-er?a really=EMPH REST-E-what?-various-guts-INST ??-guts-INST PF-eat-RESULT-3pl They'd just eaten various bits and pieces, internal organs. [ke136]

According to Skorik, the oblique argument of antipassivised verbs is sometimes marked with the instrumental case. These claims are difficult to evaluate-in Telgep Chukchi instumental case semantic agents of antipassived verbs do not occur in the corpus.

One of the suffixes which forms verbal bases is formally identical to the ergative/instrumental case, but occurs with verb stems (§13.5).

6.3.6 Equative

The equative has two functions; it marks the grammatical role of copula complement (§17.1.2), and in non-copula clauses it marks oblique nominals in a similar function. The equative is the only case which cannot under any circumstances be marked for number.

018	ənqen	jokwajo	ipe	?iy-u	e	n-it-qin	œœ	
	DEM.3sgABS	duck.3sgABS	truly	wolf-EQU	(laughter)	HAB-be-3sg	(laughter)	
	That duck	was actually	r a wol	f, ha hal				[jo104]

019 iw-nin mac-ra-r?ela-yt-a-y?a turi muri "eryatək waj 1pIABS 1pl-FUT-race-go.to-E-PF 2plABS say-3sgA.3sgO tomorrow DEICT ətcaj-qaj jara-l?-o q-it-y-a-tak" aunt-DIM.3sgABS house-NMZR-EQU INT-be-TH-E-2pl

He said to him: "Tomorrow we are going racing. You and aunty be the householders" [cy062]

In a zero-copula construction (§17.2.4), the complement may be in the equative or in the absolutive. The following example shows adjacent zero-copula constructions using both strategies.

•	ᄂ	-	-	• -	-	~	
,	n	a	р	te	г	υ	

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020 ləyen iara-k pəkir-y?i ten-ənjiw-ə-k ŋenku ?eqe-njiw really house-LOC there approach-PF good-uncle-E-LOC bad-uncle.3soABS ?att?ajot-ra-l?-a-n nutku jaat-ra-l?-o ten-anjiw first-house-NMZR-E-3sqABS here last-house-NMZR-EQU good-uncle.3sgABS So there he approached the good uncle's house, the bad uncle had the chief [first] jaraya, here the inferior [last] householder was the good uncle. [cv309]

When the copula verb is present the equative case marking of the copula is obligatory.

In oblique function the equative case marks a secondary predication which is a complement of an NP. The argument selected as head of the secondary predication is the one in S/O function, which may be represented by an absolutive case nominal and/or a verb inflection.

Example 021 shows a secondary predication of S:

I (S) 'had my eyes open' at the herd [i.e. 'My first memories date from...']

+ I was a boy

021 ningej-u ləyen=?m t-ə-tla-geryaw-ə-k nelwal?-a-k boy-EQU really=EMPH 1SG-E-eye-become.bright-E-1SG herd-E-LOC As a boy my eyes opened at the herd.

Secondary predication of O is illustrated by example 022:

Take that bad reindeer (O)

- That bad reindeer is a driver
- 022 waj q-ə-myul-y-ə-tək e q-ə-jalyət-y-ə-tək so DEICT IMP-E-caravan-TH-E-2SG IMP-E-nomadise-TH-E-2PL gora-yt-at-a-l?-o q-ə-piri-y-ə-tkə əngen reindeer-lead-TH-E-NMZR-EQU IMP-E-take-TH-E-2PL that.3sgABS yən-in / ?atkeŋ-ə-jŋ-ə-n дога-пэ 2sg-POSS.3sqABS bad-E-AUG-E-ABS reindeer-ABS Make a caravan, start nomadising, take that bad reindeer of yours as a driver [to goad the others].

The equative case has a high animate declension formed with the -ne thematic suffix, which is realised as -nu (< *-ne-u -TH-EOU):

023	ənraq then	ənqen that.3sgABS	əntuulpəre-n-u brother.in.law-AN-EQU	/ ləy-nin AUX-3sgA.3sgO	
	əngen that.3sgABS	•	r no-w-jo emain-CS-PASS.PCPL	?oratceq-qaj youth-DIM	
	Now the	n he took th	at youth who was l	eft as a brother-in-	law. [ot116]

6.4 Locational cases

Chukchi allows quite a rich set of spatial relationships to be expressed morphologically on nominals. Many of these are marked by means of case suffixes. Other spatial relationships are marked by derivational affixes, or by clitic adverbs. Of the case suffixes, the inessive has some derivational character as well, as it can

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[he003]

[cy235]

116.	Nominals	Chapter 6	Chapter 6 NOMINAL INFLECTION 117.				
	onal cases. The basic spatial case is the L location without any more precise so		'Houses with their occupants' 026 Jəγen / əməl?o jara-ŋə n-ə-n-pirq-ə-qin ləγen ənŋin really all.3sgABS house-ABS HAB-E-CS-collapse-E-3sg really thus				
There are three cases	s expressing direction:	•	<u>y-?orawetl?a-ma</u> / qeluq=?m n-ə-mk-ə-qin ra-jekwe-n ASS-people-ASS because=EMPH HAB-E-many-F-3sn house-PERL-3ceABS				
ABLATIVE -jpə+VH: mo	otion towards an entity (§15.2.2) otion away from an entity or within an en ^H : motion along a path (§15.2.4)	closure (§15.2.3)	n-a-pelget-gin HAB-E-collapse-3sg They knocked down all the houses thus along with the people, because many				
	se marks an entity used as a point of r s is not inherently directional (§15.2.5).	reference (literally or	'Animal hide along with its legs'				
There are another tw	o cases marking location without specifyi	ing motion:	027 nely-ə-n taŋ-əməl?-etə təni-jw-ə-nin ləyen əməl?-etə ləyen hide-E-ABS INTS-all-ADV sew-INTS-E-3sgA.3sgO really all-ADV really				
	cation inside an entity (§15.2.6) location under an entity (§15.2.7)		<u>ya-yətka-ma</u> təni-jw-ə-nin ASS-leg-ASS sew-INTS-E-3sgA.3sgO				
			He sewed up all the hide, along with the legs he sewed it all up. [cy256]				
accompaniment cases	ment cases ent cases are homophonous with verb ba s, there is also the postposition reen <i>to</i> mpaniment of people by people (§4.9.1).	-	'Pot with something [its contents]' 028 teg-em-comce mot-re-rewiw-o-rkon / <u>ya-r?a-ma</u> kuke-t INTS-REST-near 1pl-FUT-make.camp-E-PROG ASS-something-ASS pot-3plABS penjoly-o-k ewoca t-o-re-tcil-o-r.ko-net qonpo penjoly-o-n fireplace-E-LOC under 1sg-E-FUT-put-E-PROG-3plO always fireplace-E-3sgABS q-o-wey-o-tku-rkon ewor ralqag-o-nwo-k pokir-o-k				
6.5.1 Comitativ	/e		INT-E-claw-E-UTIL-PROG so make.camp-E-PLACE-LOC approach-E-SEQ				
	marks a nominal which accompanies a generally equally ranked, i.e. there is nationship.		We'll always make camp nearby. I'll always put a pot of something under the fireplace, so always dig up the fireplace as soon as you approach an old campsite [jo020]				
	rked by a circumfix, with the following all	lomorphy:	6.5.3 Privative				
	{ γete ^{-VH} / vowel final stem γee - ^{VH} / elsewhere		The privative is the case which expresses absence or lack of something. A similar form is used derivationally (§18.7.3). The privative is usually accompanied by a form of the particle ujne 'not, without, there isn't any' (see §18.4).				
	y rare; the associative is much more comm	non.	The marker of the privative is the circumfix eke.				
folk-E-3sg.ABS IN	/ jara-ŋə / <u>ya-ppəlo-ra-ta</u> house-3sg.ABS COM-little-house-COM aŋ-əməl?-etə=?m ITS-all-ADV=EMPH e came to be with little houses.	n²el-y²i become-TH <i>[he055]</i>	 <u>e-rilg-a-ke</u> n-a-n?el-qinet angen qaa-t? PRIV-stomache.contents-E-PRIV HAB-E-become-3pl DEM.3sgABS reindeer-3plABS Do the reindeer lose [lit. become without] their stomach contents? [ab5.31] aapkat-y?e laye-teg-ujge <u>a-rann-a-ka</u> open.mouth-TH INTS-INTS-NEG.EXI PRIV-tooth-E-PRIV 				
6.5.2 Associativ	ve		He opened his mouth - completely toothless. [jo026]				
The associative mark	ks accompaniment by something which is ad. The marker for the associative is ya	• • • • •					
People with their her		_					

025 <u>ya-ŋalwəl?-ə-ma</u> n-ə-piri-qinet=?m ASS-herd-E-ASS HAB-E-take-3piO=EMPH Together with their herds they took them.

[he017]

Pronouns

7.1 Introduction

Chukchi carries out pronominal reference functions with bound and free morphemes. Various bound pronominal morphemes are attached to verbs, nouns, and adjectives—these are described in the relevant chapters, and will not be discussed further here. Chukchi also has four types of free pronouns. These can all act as heads of NPs, and, apart from the personal pronouns, can also occur adnominally (i.e. as a modifier within a noun phrase).

•PERSONAL PRONOUNS (§7.2). There are six personal pronoun stems, which are formally very similar to the bound forms occurring with other word classes. Personal pronouns show the person (first, second or third) and number (singular or plural) of a referent. They also take case markings (§6.2) and some derivational morphology, particularly diminutives and augmentatives.

•INDEFINITE/INTERROGATIVE PRONOUNS (§7.3). There are two stems, one for animates and one for inanimates. These pronouns are used in both indefinite and interrogative functions, i.e. what? and something, who? and someone.

•DEMONSTRATIVE PRONOUNS (§7.4). The demonstrative pronouns are used deictically and anaphorically. One of the demonstratives is specialised for anaphora, and the others are mostly used for deixis, although they are all in a regular paradigmatic relationship to one another.

•QUANTIFIER PRONOUNS (§7.5). The quantifier pronouns specify an argument according to its membership of some given set. There are two stems: **əinəl**?o, which is intrinsically plural and means *all*; and **qut**-, which means *one, one of them* in the singular, and *some, some of them* in the plural.

Indefinite/interrogative, demonstrative, and quantifier pronouns in NP modifier function can agree with the number of their head noun, but when the head is a plural and it is overtly present in the NP (i.e. not ellipsed) number agreement is often not marked (see §9.2).

There are a number of other forms which act like absolutive case pronouns, but which do not take other case forms. These 'argument-like' particles include a

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quantifier cəmqək (§7.6.1), the reflexive adverb cinit and reflexive relational pronoun cinitkin(e-) (§7.6.2), and a set of restrictive pronominal adverbs (§7.6.3).

7.2 Personal pronouns

The absolutive stems of personal pronouns differ from the oblique stems as summarised below (in the form ABS-oblique):

FIGURE 7.1. Personal pronoun stems.

	singular	plural
1	Yəmo~Yəm-	muri~mur(γ)-
2	yəto~yən-	turi~tur(γ)-
3	ətlon~ən-	əcci~əcc- (female speakers)
	· · · · · · · · · · · · · · · · · · ·	ətri-əry- (male speakers)

Personal pronouns are a textually rare and pragmatically marked way of referring to an argument within a clause. Verbs have detailed obligatory pronominal cross reference, and overt personal pronouns are only used in contexts where they have special discourse significance. In eight texts (1564 prosodic phrases) there are only 109 examples of personal pronouns in absolutive or ergative case. Of these 109 personal pronouns, about a quarter occur within quoted speech, where personal pronouns are important in setting up an imaginary discourse context.

The functions of the independent core-case personal pronouns are:

i) contrastive

ii) part of a conjunctive NP (see below and §9.6.1)

iii) imaginary speech act participant differentiation in quoted speech

In unelicited texts free personal pronouns are not used for anaphoric specification of arguments in clauses—this function is carried out by verb cross-reference and, to some extent, by the specialised anaphoric demonstrative angen(a-) (see §7.4). Personal pronouns do not normally occur in copula clauses. Pronominal identity relations are marked by pronominal affixation of the noun (§6.2, §17.2.4). In context-free clicited sentences and/or in sentences which are translations from Russian free personal pronouns appear much more often.

In case functions which do not receive verbal cross-reference the use of independent personal pronouns is the only option provided by the grammar for cross-referencing the person and number of a referent. The following two examples show personal pronouns in non-core functions. Example 001 has yəməkecəku, a form with inessive case which means *inside of me*, and example 002 has yəməkatkənək *on the top of me*, formed by means of a spatial derivational suffix **-tkən-** *TOP* and the locative case.

Cha	pter 7	Pronouns				
001	qənwet finally <u>yəm-ə-ke</u>	qit-ə-w?i-l?et-ə-l?-ə-n freeze-E-die-DUR-E-PCPL-E-3sgABS <u>-cəku</u> wiinq-ə-n?el-yi"	n-in-iw-qin HAB-TR-say-3sg	"орора must		
	1sg-E-TH-IN		H			
	Finally to the mom	o the always freezing (boy) she s ent"	aid "(You'd bette	r) climb insi	de me for [cy005]	
002	Finally to the mome onk?am and	ס the always freezing (boy) she s ent" q-ekwet-yi akwat-a-אָקס-k= INT-set.out-TH set.out-E-INCH-CON	?m	r) climb insi	-	
002	the mome ənk?am	ent" q-ekwet-yi akwat-ə-yyo-k= INT-set.out-TH set.out-E-INCH-CON <u>:tkən-ə-k</u> q-ə-kawrat1-ə-1?at	=?m IV=EMPH	r) climb insi	-	

Forms identical to the third person singular pronouns atlon (3sgABS) and anan (3sg.ERG) are also used as emphatic particles. These most commonly occur in conversation and quoted speech. The particle atlon occurs in questions:

003	eej INTJ	kəke! INTJ	<u>ətlon</u> INTER	mik-iyət? who?-2sg.A3S	
	Ohп	ny! Who	are you?		[cy108]

The emphatic particle anan occurs in statements about the future:

004	qərəm NEG.FUT	<u>ənan</u> FUT	ra-jat-ə-ŋŋo-y?a FUT-come-E-INCH-TH	<u>ənan</u> FUT	t-ə-ra-yto-yət 1sg-E-FUT-pull.out-2sg	
	No, if he	will star	rt to come I will pull	you out		[cy008]

•CONTRASTIVE. Independent pronouns are used to emphasise arguments which are contrastive or acting counter to expectation.

Example 005 is from a discussion of hunting technique and animal behaviour. It clearly shows the contrastive use of the independent personal pronouns:

005	Waj DEICT	iyər now	<u>yəmo</u> 1sg.ABS	qejwe truly		vet-y?e-l ID-go-TH-1:		ewər CONJ	
	<u>yəto</u> 2sg.ABS		ekwet-y?e- OND-go-TH-2/		TY you	RANIŠ wound	kejŋ-ə-n bear-E-ABS		
	ewən then	<u>yən-in</u> 2sg-POS		winə track.3sgABS		ə-rkəle-r COND-E-foil	ain Iow-3sgA.3sg(0	
	Well no follow y	w, if I g our trac	o out and y ks [not mi	vou go put ne].	and if	you woul	nd a bear	then he s	vould [an018]

Example 006 is from a text by an elderly man about the decay of reindeer herding in recent years and the means necessary to improve it.

122.			Nominals			Chapt	er 7
006	et?opel better	yəjol-qora-ya experienced-reind	enret-ə-1?-ə-t leer-guard-E-PCPL-E-3plABS	neme again	moo-k begin-INF	1	
	qənur like	ŋelwəl?-ə-k=?; herd-E-LOC=EMP		qənur like	anqora then	wec?əm probabiy	1
	[mac#]	ม <mark>าลc-taŋ</mark> -ə APPR-good-ADV	n-?-ə-n?el-ə-rkənet 3-COND-E-become-E-3pl.P		nan-ken=?m P-REL.3sgABS=8		
	ŋan (DEICT		-yjolat-ə-1?-ə-t=?m experienced-E-PCPL-E-3plABS	=ЕМРН	ənan-ken≕ ??-REL.3sgAB	••••	
	ləyi know.VBase	<u>əryənan</u> 3pl.ERG	ye-tc-ə-linet=?m PF-AUX-E-3pl=EMPH		·		

If only the experienced herders were again to begin working at the herd then perhaps the situation would become better from it, the old experienced ones, they know the situation. [he081]

His use of the full pronoun in the phrase layi eryanan yetcalinet *they know it* emphasises that it is them, the elderly experienced herdsmen, who know what to do, and not anybody else (particularly the youth of today, who have come in for some criticism already in this text).

The different use of personal pronouns in quoted speech will be discussed below. However, even in quoted speech personal pronouns can be used in the contrastive function, as illustrated in the following two examples. Example 007 is from a story about a reindeer sled race. The orphan boy Cokwangagaj was mocked for his aspiration to participate in the race, since he owned no sled or reindeer. However, with the aid of a magical hterapy doe, he manages to get prepared for the start of the race.

007	<pre>?eqe-njiw bad-uncle.3sgABS</pre>	n-iw-qin HAB-say-3sg	"əngatal of.course	⁷ amən INTJ	Čəkwaŋaqaj personal.name.3sgABS
	Isyi-req-a-rkan INTS-do.something-E		la-ytə-rkən •go.lo-PROG	<u>ətlon</u> " 3sgABS	
	The bad uncle :	says, *Well lo	ok what Cok	wayaqaj:	s doing, he's going racing" [cv090]

Example 008 shows contrasting first and second person pronoun participants, similar to that in example 005 above, but this time contained within a quote:

008	cakəyet sister.3sgABS	/ na-t?əm-re INV-bone-see	•		e-winret-yət FUT-help-2sg	yəmo 1sg.ABS	1
	yəmo / 1sg.ABS	ii <u>yamo</u> yes 1sg.ABS	?iγ−u wolf-EQU	t-ə-r-it-y?e=?n 1sg-E-FUT-be-TH=		<u>yəto</u> 2sgABS	
	jokwa-n-o duck-AN-EQU	q-it-γi / INT-be-TH	ənqen DEM.3sgABS	ninqej boy.3sgABS	iw-nin say-3sgA.3sg(0	
		d searching for If and you be a c				•	s, 075]

An independent pronoun is often used when a person does something counter to expectations. Example 009 is from an episode from the same folktale as 007. Everybody else has set off in the reindeer sled race, and the boy who was not expected to participate manages to set off too, even though he was widely believed

Cha	pter 7		Pronouns	123.
to b the	e incapable of i boy's act is une	t. The use of expected.	f the particle nem	əqej <i>also</i> is another indicator that
009	<u>ətlon</u> =?m 3sgABS≖EMPH	neməqej also	ekwet-y?i / set.olf-TH	anə so
	n-ə-lyi-ml?uci HAB-E-INTS-circle	-	orw-oor sled-REDUP.3sgABS	n-ə-n-kawra-1?aw-jəw-qen HAB-E-CS-tum.over-DUR-COLL-3sq
	He too set off, sled over seve	but he went ral times.	around in circles	almost on the spot, and turned the [cy094]

Example 010 is from an episode of another story about a boy who roams about at night disguised as a wolf after his parents are asleep. This section emphasises that the boy goes to bed at the same time as the parents do, even though we know that he will actually spend the night out stalking the Koryaks.

010	neme also	ləyeri really	wulqətwi become.even		neme again	ləyen realiy	atc?at-y?a-t go.to.bed-TH-3pl	əti?a-t mother-3pIABS
	ewat likewise	<u>ətlon</u> 3sgABS	neməqej aiso	ewət likewis		'at-γ?e bed-TH	· ·	·
	Again	evening I	fell, again h	is par	ents wei	nt to bed	, and he too went	t to bed. [ot062]

In example 011 the free personal pronoun is part of a set phrase γ -mo tiwərkən I am saying which the speaker uses when he is making value judgements about how things ought to be and is emphasising that what he is saying is his own personal opinion:

011	e-ŋelwəl?-ə-ke PRIV-herd-E-PRIV	n?el-ə-k become-E-INF	mət-?enqee 1pl-don't.want-l				
	ənqena -jp ə DEM-ABL		t-iw-ə-rkən 1sg-say-E-PROG	?amən INTJ	et?opel ≈?m probably=EMPH	waj DEICT	1
	wec?əm=qun maybe=once	yəjol-qora-ya experience-reinde	ənret-ə-1?-ə-t eer-guard-E-PCPL-E	E-3pIABS	wa-k=?m be-INF=EMPH		
	We resist becon experienced rea	ming herdless, Indeer herders	and from that	, İsay, (w	re are) probably)84 J

•CONJUNCTIVE NP. The structure of an NP with associative conjunction is described in §9.6.1, and will not be discussed here except to point out that the structure of an associative conjunction NP requires the use of a free pronoun irrespective of discourse conditions. The phrase **muri** yematayan *yematayan* and *I* [lit. We + Yematayan] in the following is an example of associative conjunction in a noun phrase:

012	ii yes	j?arat very	wəne INTJ	telenjep long.ago	SOROK forty	DEVJA ninth	TI	yiwi-k year-LOC	<u>muri</u> 1plABS	
		i <u>atayən</u> nal.name3s	/ gABS		-nta-more deer-stand.wa		1	peecwak- nonbreeding.l		
		long ago ding her		9 Yemataya	on and I st	tood wa	tch	over reinde		100- r179]

124	Nominals	Chapter 7	Chapter 7	PRONOUNS 12			
 QUOTED SPEECH. In quot greater frequency than in motivation for this in the m speech act. However, more f general feature of quoted s pronoun is redundant. In exa γəmo is used despite the un prefix t- on the verb təreŋewa 013 iw-nin "ənjiw-qej say-3sgA.3sgO uncle-DIM.3s <u>yamo t</u>-ə-re-ŋew-ə-nju !sgABS 1sg-E-FUT-wife-E-se 	direct speech. There is us need to establish the partic frequent use of independent speech, even in sentences w mple 013 the first person sin nambiguous presence of the anjucqiwə <i>I will go looking J</i> q-ə-rayt-ə-ye w sgABS INT-E-go.home-E-TH Di 1-cqiw-ə"	ually a clear functional ipants of the imaginary personal pronouns is a where the free personal gular absolutive pronoun fitst person agreement	woman-ERG 3p waj q-ə-caj-c DEICT INT-E-tea-t meŋqo?" whither? The women said one reindeer W The interrogative/in derivation; they have and plural agreement	woman-ERG 3pl-say-E-3sg INTJ DEICT who-DIM.3sgABS waj q-ə-caj-o-rkən kəke wəne-qaj qon-qora-l?-eyət DEICT INT-E-tea-CONSUME-PROG INTJ INTJ-DIM one-reindeer-NMZR-2sgABS meŋqo?" whither? The women said to him, "Who's this? Drink some tea! Well well, you've got one reindeer Where have you come from?" [cy10] The interrogative/indefinite pronouns have a slightly irregular possessiv derivation; they have the absolutive forms reqən and mikən for both singula and plural agreement with the possessed (see 018). 018 kolo kolol ənjiw-qej mik-ə-n gora-t?			
• •	ek-PURP-E to home, tomorrow I will go Ic	oking for a wife" [cy169]	UI8 kolo kolo! INTJ INTJ Oho, uncle, who	uncle-DIM.3sgABS who?-E-POSS.3sgABS reindeer-3pIABS			
7.3 Indefinite/interro There are indefinite/interroga	•	and inanimate reference.	The verb iw- <i>say</i> tak the pure absolutive. T	es an interrogative/indefinite O in the possessive rather than his is a lexical peculiarity of this particular verb			
Both animate and inanimate stem used in other cases:	e forms have a different abs	olutive case stem to the	019 req-ə-n=?m what?-E-POSS.ABS=6	qol ənjiw-qej n-iw-qin? MPH QUANT.3sgABS uncle-DIM.3sgABS HAB-say-3sg			
FIGURE 7.2. Indefinite/interro	gative pronoun stems.		What does the of	10,000			
	Absolutive stem	Non-absolutive stem	The extended intrans	tive verb iw- is further discussed in §11.3.			
Animate who?, someone	menin(e-)-VH	mikVH	The interrogative ar	nd indefinite functions of the pronoun are distinguished			
Inanimate what?, something	r ⁷ enut(e-)/c ⁷ enut(e-) ^{-VH}	req-/ceq- ^{-vH}	contextually, usually pronoun in the instru	by intonation. Example 020 shows this distinction with the			
Through normal allophonic va /c?e- before consonants (see				t-iyət?			

[ot129]

[cy066]

ABSOLUTIVE STEMS r?enut(e-)/c?enut(e-):

affixes.

014		e <mark>?enut</mark> what?.ABS w <i>as he ca</i>	ənqen? that.ABS alled]?
015	<u>r?enute-t</u> what?-ABS.PL	ra-jaa- FUT-use-	ŋ-ə-nat? TH-E-3pl
	What (pl) w	vill you us	se?

The (e-), which is not present in the absolutive singular form, is nevertheless part of the stem. It appears along with derivational morphemes, such as the collective form in example 016 and the diminutive in example 017. These pronouns are therefore nominals of morphological class Ic (deleted final vowel; §6.3.1).

016	wec?əm maybe	nemaqej also	<u>r?enute-tku-t</u> something-COLL-3pIABS	yənan 2sg.ERG	
	ləyi know.Vbase	ləŋ-ə-rkər AUX-E-PRO			
	perhap	[ab5.11]			

Example 021 shows an indefinite pronoun indicating someone/something which is SPECIFIC and KNOWN to the speaker. This contrasts to example 022, which represents someone/something SPECIFIC, the identity of which is UNKNOWN to the SPECIFIC KNOWN 021 yəmnan=?m waj <u>r?enut</u> t-ra-tw-ə-ŋ-ə-n 1sgERG=EMPH DEICT something.3sgABS 1sg-FUT-tell.about-E-TH-E-3sg ətr[?]ec=?m n-ə-lyi-n-iwl-ə-qin

Many languages provide series of different indefinite pronouns used in different functions, such as the English types someone, anyone, noone or the Russian koe-kto, kto-to, kto-nibud', kto-libo, ni-kto (Haspelmath 1997). Chukchi has only one type of indefinite pronoun, and, unsurprisingly, it has a wide range of functions. The

Chukchi indefinite pronouns can apparently carry out all the functions typical of

indefinite pronouns, as described by Haspelmath (1997:63-64).

HAB-E-INTS-HAB-long-E-3sg

Hm, I will I tell about something, only it's a long one ...

What did you come by?

speaker.

all=EMPH

[ka37]

[na081:7]

26. NOMINALS Chapter 7	Chapter 7 PRONOUNS 127
 ² e gekketuri <u>menin</u> evot angen INJ daugheräpääs ² e gekketuri <u>menin</u> evot angen INJ daugheräpääs ³ gekketuri <u>menin</u> gevä-njui-Pa-n [] seensbeready ERESULT-PROG DEM 33gABS vonnan-Eseek PCPLE3sgABS <i>Oh daughters, let someone be ready. This is the sultor [for you]</i> [cy218] kample 023 shows the NON-SPECIFIC 'Irrealis' use of the indefinite pronoun. In is story somebody passes through a fire unscathed: ON-SPECIFIC ³ welet <u>r2enut</u> ye-mec-talw-e layen tem-paine-mil ifeven somebing 3sgABS COMAPPR-bum-VBase nealy :/PH-same-ADV And if anything even slightly burned, [no,] it remained like if was [cy197] ther irrealis uses, like polar questions (example 024) and conditionals (example (5) are also attested: DLAR QUEST::)N ⁴ <u>r2enut</u> tola-nwa-k lun-Pu-te somebing 3sgABS ge-FLOCE LOC NEG-see-NEG Did(n't) you see anything on the way? [naO84:01] ONDITIONAL ⁵ tite <u>mike-ang</u> angen ye-na-miltj-ew-lin when someone-EERG DEM.3sgABS PF-CS-Ewound-CS-3sg angen winwa-t gonp layi n-ine-ly-a-gin DEM.3sgABS tuack3pABS always know base HAB-TRAUK-E-3sg When/If somebody has wounded him [a bear] then he always knows their tracks [anO15] though the indefinite/Interogative pronouns can be negated with the privative se, the they can also be used in negative sentences without any modification rample 026). Privative case indefinite pronouns are used for negative existentials te \$18.4 and example 027 below]. ³ ank-atayn-eps <u>metin</u> lun-t?al-e DEM.THEDERAE. MEG-faulsick/MEG Since then noone got sick. [nb055.3] 	 027 naqam yamnan tite t-a-walom-a mijka n-a-nu-jw-a-qin bu işgER then işgE-bast-Esg bow HABE-est-COLLE-as janct r?enut ganraqanate-t n-a-nu-jw-a-qinet=?m anqo first something kind.tot.3plASS HABE-est-COLLE-aspENHH then quark an-in ami?-eta qecejar-2-n quark [nine] like 3sg-POSS.3gA6S all-ADV gwtcoments-E-SagABS like ulige e-teq-a-ke n-a-n2-lqin / NGE-EMPRI-something-E-RNV HABE-become-3g atc?at-a-ngo-k jalq-a-gpo-k golobed-E-NCH-SEQ But I heard it some time how it first eats something. It eats [a kind of root], then like all its gut contents [i.k., become without anything. upon starting to go to bad, starting to sleep. There are two indefinite pronoun functions I have no information for. The use of indefinite pronouns as STANDARD OF COMPARISON (This tastes worse than anything I've had before]; Haspelmath 1997:43.33.37] is difficult to evaluate, since the Chukchi comparative does not normally use an overt standard of comgarison (\$16.6). The FREE CHOICE function of indefinite pronouns is also not attested (e.g. 'Anybady can come to the kolxoz disco'; Haspelmath 1997:48-51). There is a special prefix im- (perhaps related to the emam- restrictive prefix; \$8.10.3) which derives a pronoun with the meaning <i>everything</i> from the inanimate indefinite pronoun. With this prefix the interrogative reading of the pronoun is impossible. 028 angors angen [#] qaa-m-a-ta-N-Ta-k=7m cama then DEM.3sgABS reide#NI-HE-COUR-E-SECHEM and n-a-tennay-qinet=7m / cama [#] wage-ra-k m-a-twa-qen HABE-casthigh-BeEMPH and sewhouse-LOC HABE-be-Ssg ima-a-granty n-a-telk-a-sg in wil-u=7m / cama angen / REST-E-something HABE-make-E-OUR-Sigg Sb she's already made a complete pair of fur boots. [ke100] 029 kolo TARPASA-t im-a-reg-ud everything for trade, and for the state farm [he049] 020 kolo TARPASA-t im-a-reg-ud everything HABE-Rake-E-OUR-Sigg Sb and winret-tumy-a-m layen ima-a-reg-k hepfined-E-SiggABS is eavery start for something HABE-rake-E-OUR-SiggABS and winr

128.	·	<u></u>	,		NOMINALS		Chapter 7
031	ii yes	ənqo Ihen	ən∙in 3sg•POSS.	3sgABS	nenene-t baby-3plABS	n-ine-lyi-teŋ-ə-n-ə-yjı HAB-TR-INTS-EMPH-E-CS-	
	Im-ə-req-ə-k REST-E-do.something-E-!!		ləγen teally		<u>req-ə-k</u> T-E-do.something-E-INF	·	
	Anc	then ho	v does she	e teach i	her children	to do everything?	[an044]

The interrogative pronoun may be incorporated when it occurs in the same nominal slot as a full noun. As with other occurrences of incorporation of nominal modifiers, this is obligatory in non-absolutive case roles and optional in the absolutive. Example 032 shows the phrasal construction r?enutet ejwelgeyti what orphans? and the incorporational construction r?ayatle what bird? in juxtaposition. In the absolutive case these two strategies are distinguished pragmatically (§19.3). The phrasal construction is preferred when the noun has number marking, and number marking is more likely when the noun has human reference or is otherwise highly individuated.

032	032 ee <u>r?enute-t</u>		<u>ejwel</u>	<u>•qey•ti</u>	nute-k	n-ena-pela-tore	:e?	
	INTJ	what.AB	S-3pIAI	BS crphan-	DIM-3pIABS	land-LOC	HAB-TR-leave-201	
	ənqer this=EN		_	<u>ratle</u> ·bird.3sgABS	ajŋa-ŋŋo- cry-INCH-TI			
	Oh w cryinį		hans	have you l	eft in the tu	ındra? WI	hat kind of bird is	that [jo084]
033	okkoj INTJ	mej! INTJ	1	<u>ləyi-req-</u> INTS-what?	<u>Pina</u> •wolf.3sgABS	ənŋatal of.course	taŋ-wen?əm INTS-INTJ	[]
	Oh, w	vhat kli	nd of t	wolf is this	? It's too n	nuch!		[ot056]

7.4 Demonstrative pronouns

Most of the demonstrative pronouns are formed using the same stems as deictic adverbs and particles (§15.6). They are graded for distance from speaker:

notgen(a-) this < *nut-VH-g+VH-ine-VH (cf. nut.ri "here") nangen(a-) that < *nen-VH-q+VH-ine-VH (cf. nan deictic particle) naanqen(a-), noonqen(a-) that yonder

The forms gaangen(a-) and goongen(a-) cannot be used in contrast to each other, and seem to be no more than stylistic variants. All these demonstratives can also be used anaphorically, although the remaining demonstrative ongen(a-) (see below) is most common in this function. Examples 034 and 036 illustrate the deictic function of these demonstratives, while example 035 shows a demonstrative used for discourse functions, reactivating a referent which had been previously mentioned.

034 ii ?əl-ə-tkən-ə-k "q-ine-pet-y?i am-notgena-ta yes snow-E-TOP-E-LOC INT-TR-butcher-TH REST-this-INST qame-twa-t-ə-k" / [...] eat-RESULT-TH-E-INF Yes, on the snow. "Butcher me, only eat these bits" [he said]

[ke132]

Unaj	pter 7			PRONOUN	IS		129.
035		ner.3sgABS	<u>nanqen</u> DEM.3sgABS d definitely	ləyen really run awa	kolo INTS V	wetaweta definitely	n-ə-yəntew-qin HAB-E-run.away-3sg [aa2.30]
036	q-ik-wi INT-say-TH	<u>naanqen</u> DEM.3sgAB		ə•n AUG•E•3sg/		ŋaj·ecy-etə hill·fall-ALL	[/100/00]
	q-ə-rı-cejv INT-E-CS-wa	v-ee-rkan nder-CS-PRO(ŋacyə-	kemce-r	o ⁷ o∙cor	m-ə-jaal-kena EL-NMZR-E-3sgA	1-1?-ə-n BS
	Say "Driv on the hill	e yonder bi ["i					inge lower down [kr187]

The remaining demonstrative pronoun is formed from the 3rd person singular stem:

ənqen(a-) this, that < *ən-VH-C.*VH-ine-VH (cf. ən- 3sg)

This demonstrative has identical morphosyntactic behaviour to the others, but differs in that it is not graded for distance. It is used mostly in discourse tracking functions. Typologically it is not uncommon to have words in a clear paradigmatic relationship with demonstratives which are neutral with respect to distance (Himmelmann 1996:211); and the form angen is clearly of this type. Most examples of demonstratives in texts are forms of angen(a-).

037	ləyen really	remk-ə-n folk-E-3sgAE			n≃?m =EMPH	rəpet even	remk-ə-n folk-E-3sgAl			
	?uri ??	n-ə-qər?ace HAB-E-compete		ləyen really	qər?ac compete		n-it-qin HAB-AUX-3sgA	•		
		γciret-qin≈? ⁄ork-3sg=EMPH	m //	-	•					
	ənk?ar and	n <u>ənqena</u> DEM-ABL		qənur like		ojw-?av strong-ADV	- 1			
	remk-a folk-E-3s		iret-ə-k -INF	//				•		
	So it's like people, people tried really hard, competing as they work. And from that it's like people went stronger in their work. [he028-029]									
038	<u>angena</u> DEM-INS		amalw variously	•	a-17-ə-t PCPL-E-3	Iplabs	[]			
	-	ena t=?m pl=EMPH		?-ə-t=?m ZR-E-3plABS	=EMPH	ləyen really	ənk?am and	<u>əngena-n-o</u> DEM-AN-EQU		
	ye-tena PF-call-39	onnon-lin Sg				-		·		
	Becaus later th	Because of this first there were various they didn't have these names, only later they started to call them these. [kr043]								
The	non-dei	ctic demons	trative f	orm ənq	en freq	uently	occurs prec	eded by one of		

TI the deictic particles waj or raj/caj (§15.4) and these pairings seem to behave like deictic demonstratives (the other deictic particle nan is already cognate with the demonstrative gangen, and doesn't combine with ongen). Generally they are used

1 This is a tongue-twister; §12.5.1.

130. Nominals Chapter 7	Chapter 7 PRONOUNS 131
130. NOMINALS Chapter 7 to introduce new participants, as in examples 039 and 040. There is no phonological way of determining whether these are separate words since both stems have dominant vowel harmony and so there is no possibility of triggering vowel alternation. Literate speakers tend to write them separately, but occasionally join them. 039 waj-angen nirkagut / megin / gan DEICT Talel?-a-watr-a-qej / ?Omran-en ekak personal.name-E-similar-E-DIM.3sgABS personal.name-POSS.3sgABS son.3sgABS There's that one, what's he called, who looks like Talel?an, ?Omran's son. 040 caj-angen nemagej anp-a-gew ar?ala	absolutive, and example 045 shows it in the possessive indicating a high animate plural possessor. 044 [] / mət-ra-pojyəl?at-ə <u>əməl?o-more</u> ənŋatal 1pi-FUT-spear.fight-E all-1piABS of.course ənkə mən-ə-nm-ə-yət here 1pi.INT-E-kill-E-2sg we'll all fight with spears, and there of course we'll kill you. [ot083] 045 n-ə-lyi-n-ec?-ew-qeet ŋan ŋelwəl?-ə-t taŋ-əməl?o-ry-en=?m / HAB-E-INTS-CS-fat-CS-3pi DEICT herd-E-3piABS INTJ-all-3pi-POSS.3sgABS=EMPH nutrilə [#] n-ə-koral-ə-tko-cqew-qenat / ləyen [anə] hither HAB-E-corral-E-USE-PURP-3pi realty
DEICT-DEM.3sgABS also old-E-woman.3sgABS quite n-ə-pəcwetyaw-qen [] HAB-E-converse-3sg That there old woman too, she's quite talkative [kr177] However, example 041 shows the word order ənqenat raj with apparently the	n-a-qaa-yt-at-qen remk-a-n n-a-qaa-jonrat-qen [] HAB-E-reindeer-drive-TH-3sg folk-E-3sgABS HAB-E-reindeer-wean-3sg They fattened up herds, everyone's [deer] they corralled hither, the folk drove the deer, weaned them. [he058] It is common for amal?o to occur as an absolutive NP in its own right. It generally takes plural verb agreement, such as 046, but it can also take singular (or
same deictic demonstrative meaning:	unmarked for number) agreement, as in 047.
041 ənqena-t raj Wareeŋ-tanŋ-ə-ŋaw-ə-t ləγen teŋ-?etki-jŋ-ə-t DEM-3pIABS DEICT Vaegi-stranger-E-WOMAN-E-3pIABS really INTS-bad-AUG-E-3pIABS Those there stranger women from Vaegi are very, very bad. [ot050]	046 qərəm-ewən ləyen <u>əməl?o n-ena-ponŋe-qenat</u> NEG-INTS really all.ABS HAB-TR-cut.off-3plO <i>It was hopeless, he cut them all off.</i> [ot078]
The distal demonstratives (i.e. apart from gotgen here and angen, which isn't graded for distance) in the third singular absolutive form are also used as deictic adverbs with directional meaning (see also §15.6). Most of the seeming deictic demonstratives in texts are actually examples of this type of deictic adverb: ⁰⁴² ne-n-pelq-ew-a-n pelqet-e it-y?i ne-n-jalyat-at-a-n <u>pangen</u> ^{3pl-CS-die-CS-E-3sg die-VBase be-TH 3pl-CS-nomadise-CS-E-3sg DEM.3sgABS <i>They left him to die, he died, they drove him away/thither.</i> [jo122] Speakers lengthen the initial vowel of <u>paangen</u> and <u>poongen</u> as an iconic way of emphasising distance: ⁰⁴³ angin=?m n-a-yratku-qin teg-em-rantaget-e thus=EMPH HAB-E-slaughter-3sg EMPH-CONV-divide-CONV <u>matataa:angen</u> n-ine-lyi-n-jaqunt-ew-qin=?m yonder.3sgABS HAB-TR-INTS-CS-go.far.away-CS-3sg=EMPH <i>Thus he slauphtered</i> meet hutebarien it wouldfill worden he teals in [10052]}	Although it is not overtly marked, according to the habitual verb paradigm (§10.3.2) the agreement of the verb nenatənpəqen in the example 047 is unambiguously 3sgA and 3sgO: 047 ii / anə qut-ə-ne=?m cama pojy-ə-n n-ine-nr-ə-qin yes so QUANT-E-ERG=EMPH and spear-E-3sgABS HAB-TR-hold-E-3sg tumy-in pojy-ə-n ənqena-ta yəryola-ta n-ə-rige-mjet-qin lriend-POSS.3sgABS spear-E-3sgABS DEM-ERG above-ADV HAB-E-fly-charge-3sg <u>əməl?o</u> ləyen <u>n-ena-tənp-ə-qen</u> all.ABS really HAB-TR-stab-E-3sg <i>Yes, and the other one was holding the spear, that one was holding his friend's</i> <i>spear, he flew above them, stabbed them all.</i> [jo111] Within absolutive noun phrases əməl?o can also occur with singular (example 048) or plural (example 049) nominals; these nominals (not əməl?o) determine verb number agreement.
Thus he slaughtered meat, butchering it, way off yonder he took it. [jo053] 7.5 Quantifier pronouns There are two quantifier pronouns stems, əməl?o all and qut- one, some. They both decline according to the high animate declension in non-absolutive contexts (§6.2). Any inflected form of əməl?o—that is, any form except for the third person absolutive—is declined as a plural. Example 044 shows it as a first person plural	048 <u>amal?o</u> remk-a-n / pal-teyjen-cit-e n-it-qin [] all.3ABS lok-E-3sgABS RECIP-desire-ADVERS-VBase HAB-AUX-3sg All the people were living in harmony [he067] 049 <u>or:v-a-t</u> <u>amal?o</u> wajanrela ajmak-a-k sled-E-3pIABS all.ABS thither carcass-E-LOC qaca-yta ra-1?at-en-nenat beside-ALL CS-move-CS-3sgA.3plO He dragged all the sleds there to the carcasses [cy437]

132. NOMINALS	Chapter 7	Chapter 7 PRONOUNS 133.
The quantifier qut- occurs in singular and plural. In the singular another or the other and in the plural it means some or the others:	r it means <i>one</i> ,	056 <u>amai?o</u> <u>qut-ti</u> tam-a-tko-jw-a-nena-t all.3ABS other-3pIABS kill-E-COLL-COLL-E-3sgA.3plO <i>He killed all the others.</i>
The absolutive singular has the irregular form qol :		
050 neme <u>qol</u> / ?əlet-ə-k jawren-a=?m also QUANT.3sğÂBS snow-E-SEQ next.year-CONV=EMPH		The quantifier qut- has an allomorph qulle- which is used with derivational suffixes (examples 057 and 058) and in incorporation (059).
neme ənnan-mətləŋ-qaw n²el-ү²i=?m also one-five-ADV become-TH=EMPH Also another [herd], after the snow fell, the next year again a six	xth (herd) came	057 <u>qulle-qej</u> panena n-?atca-qen QUANT-DIM.3sgABS still HAB-wait-3sg The other little one is still waiting [ot110]
to be. The absolutive plural is formed regularly, but does not decline like a	(he038)	058 <u>qolla-jŋ-ə-n</u> ≠?m ?inə=?m / ləγen optərəro QUANT-AUG-E-3sgABS=EMPH wolf.3sgABS=EMPH really far.off.ADV
D51 <u>qut-ti</u> =?m SPAT / jəlqet-r?u-γ?e-t QUANT-3piABS=EMPH sleep sleep-COLL-TH-3pi	ingirannac.	n-ə-palomtel-qen / n-apaqatlə-twa-qen HAB-E-hear-3sg HAB-lie-RESULT-3sg
The others sleep.	[ke021]	The other one, that wolf, heard this from far off, [where] he was lying on his stomach. [jo103]
The quantifier takes high animate declensions in non-absolutive con ergative singular is qutəne , and ergative plural qutərək-qutəcək :	11	059 r?ela-yt-ö-l?-ə-t jet-y?e-t ŋan / <u>rtolla-nəm-yəpə</u> race-go.to-E-PCPL-E-3plABS come-TH-3pl DEICT QUANT-settlement-ALL
	aangen onder	The racers came, from the other camp. [ke036]
qətləyi ənkə n-ə-twa-qenl seems here HAB-E-be-3sg		7.6 Argument-like adverbs There are several adverbs which semantically overlap with pronouns, but which do
Then, one of them saw him, "Look, there he is!" 053 <u>qut-a-cok</u> QUANT-E-ANPI.ERG CONJ DEM.3sgABS HAB-E-cut-ifER-COLL-E-3sg KOLPASA pcacam-a-jg-a-n sausage sausage-E-AUG-E-3sgABS Others now cut the prerem-sausage	[ke049] g ke279]	not have case forms. These include camqak others (§7.6.1), cinit self (§7.6.2), and a series of person marked restrictive forms, e.g. amyamnan alone, by myself, aminoryanan alone, by ourselves (§7.6.3). These words belong to a subclass of adverbs with the distinctive behaviour that they can act as modifiers within a noun phrase (§4.8.5).
As modifiers within noun phrases, forms of qut- agree with the nur		7.6.1 Quantifier adverb cəmqək
head:		The quantifier adverb comqok acts syntactically like an absolutive case quantifier
054 anqora neme / [#] neme anka jawren-a=?m then also also here next.year-ADV=EMPH iŋqun peecway-jonr-at-a-k=?m ama / so.that spring-wean-TH-E-SEQ=EMPH also neme qol nelwal na-n-tomy-aw-a-n also QUANT.3sgABS herd.3sgABS 3pl-CS-exist-CS-E-3sg Then again, again there the next year after the spring weaning a made another herd. also	too, agāin they [heû35]	pronoun, but does not have any morphological variation and does not mark any nominal syntactic categories (such as number). It either occurs as a modifier in a noun phrase (see 062). Example 060 apparently shows comqok with the O role of a transitive verb, and example 061 shows it apparently in the S role of an intransitive. However, in both instances the argument of the verb is specified by the form of the verb, thus comqok is an adverb modifier of a zero-pronominal head:
D55 gan=?m ya-r?ela-yt-ə-lenat <u>qut-ti</u> / DEICT=EMPH PF-race-go.to-E-3pl QUANT-3pIABS <u>?orawetl?a-t</u> ənpənacy-ə-t		060 cama layen <u>camqak</u> n-ine-pipk-a-lwi-qinet pojy-a-qa-a and really others HAB-TR-ankle-E-cut-3pl spear-E-DIM-INST And he just cut the others' ankles with his little spear. [ot074]
person-3plABS old.man-E-3plABS Well, some people went to a race, old people.	[ke001]	
men, some people went to a race, ou people.	INCOOL	

H

134.		Nominals								
061	ii yes	taŋ·əm-ləγe EMPH-?·know	ŋan DEICI	cəpet F cven	[mel]	<u>cəmqək</u> others	ləyen really			
	-	a-tw-ə-ŋ=?m)SS-speak-E-ADV=I	Емрн	/ [etel]	an INTJ	/ ləγen really=8				
	tang-ə-tw-a=?m stranger-E-speak-VBase=EMPH			kejmenin ??	əmə also	cəmqək others				
		?orawetl?a-t 1-person-3pIABS	ŋan DEICT	aləmə you.know						
		, and I know li I some spoke R						ukhā] oh, [kr034]		

This particle usually has human reference, but can indicate non-humans and inanimates as well, e.g. kantemkən cəmqək *some lollies* [kr238] (see example 032 §5.6.3). Example 062 shows cəmqək together with əməl?o, the quantifier pronoun *all* to form a noun phrase:

062	n-iw-qin	"itək-ewən	ləyen	<u>cəmqək</u>	<u>əməl?o</u>	t-ə-tku-net"	[]
	HAB-say-3sg	so-INTS	really	others	all.3ABS	1sg-E-anihilate-3pl	
HAB-say-3sg so-INTS really others all.3ABS 1sg-E-anihilate-3pl						[ot123]	

7.6.2 Reflexive adverb and reflexive relational pronoun

The form cinit *self* is not a pronoun (or any sort of nominal) since it doesn't have case forms. It is used to emphasise the fact that an argument acted alone, by itself. There need not be any overt nominal argument for it to modify; zero-pronominal from the verb is sufficient. The form only occurs with agentive arguments (i.e. A or S_A syntactic role). Example 063 has two instances of cinit, the first refers to and S and the second to an A; example 064 shows cinit referring to an A:

063	qol one.3sgAl	ləyen BS really	<u>cinit</u> self		t-ə-1?at-qen 1d-E-DUR-3sg	1	
	<u>cinit</u> self	retem-a-t roof-E-3pIABS		tril-qinët pack-3pl	orw-ə-k sled-E-LOC		
	This ot sled,	her one tied	up the l	oad by hers	self, packed t	he roof by her:	se!f on the [cy297]
Ö 64	neme again kən?u-r lasso-3sqi		/ JABS	wenqor hamess.do	a-jŋ-ə-n e-AUG-E-ABS	<u>cinit</u> self	
	-	he lassoed h	is harne.	ss doe hims	self		[cy119]

Chukchi deesn't have any morphological reflexivisation strategies; certain verbs can be used to support the reflexive rescaling (see §11.7).

There is also a reflexive pronoun cinitkin *one's own* derived from cinit with the relational suffix (§8.7.2). This form is a true nominal (and semantically a pronoun), although it rarely occurs in non-absolutive forms for semantic reasons. Unlike

Cha	pter 7			<u> </u>	PRONO	UNS			135.
	it, it does ntity of th					cular	syntactic role. Ir	the fo	llowing the
065	Nuteke personal.n cinit-ki self-REL.3 Nuteken	ame-ER n sgABS	۱ ت	vitacy-a-r	l.name-E-ALL sgABS	CAUS	o-an-nen wear-3sgA.3sgO I.e. N. dressed M.	in his	overtunic). [nb075.1]
Exa	imple 066	i conti	-25	ts the refi	lexive partic	le and	the reflexive rel	ational	pronoun:
060	ləyen really ən-in 3sg·POSS	[#] .3sgABS	1	<u>cinit</u> self <u>cinit-kin</u> self-REL.3s	-	gO	wenqora-jŋ-ə-n hamess.doe-AUG-E-3:	sgABS	11

Well... himself he lassoed the harness doe. [It was] his very own. [cy082-083]

The form cinitkin is also used as a noun meaning relatives, kinfolk.

7.6.3 Restrictive pronominal adverbs

There are a set of adverbs meaning *alone* which can have person-number marking. These forms are derived from instrumental/ergative case personal pronouns with the restrictive prefix em-^{-VH}.

FIGURE 7.3. Restrictive pronominal adverbs.

	Singular	Plural
1st person	amyəmnan	ammoryənan
2nd person	amyənan	amtoryənan
3rd person	a nənan	aməryənan/aməccənan

In all person and number combinations the person+number marked forms can be substituted by the third-person singular form. The unmarked 3sg form occurs commend in contexts where there is an evert pronoun argument also present; the person marked forms are only obligatory when there is no overt personal pronoun.

Restrictive adverb with person-number marking:

067	ik-w?i say-TH ləyen really	ammoryənan REST.1pl.ADV q-ə-jot-y-ə-tək IMT-E-come-fia-C-2pl	ləyen really []	q-ə-jet-y-ə-tək INT-E-come-TH-E-2pl	1	
	He said,	We are alone, y	ou come	[out], come [out]!"		[jo006]

In example 067 the first-person plural restrictive adverb appears predicatively; it could be considered to be functioning as a verb base, as an auxiliary verb could be added to make this an analytic verb.

Restrictive adverbs usually appear without person-number marking when they modify a nominal which is overtly expressed:

136.			Nomin	ALS	 Chapter 7
068	amənan ^{only} Eat just ta	ləle-t eye-3pIABS <i>he eyes</i>	re-nu-y-ə-net FUT-eat-TH-E-3pl	[]	[ja040]

In example 069 the non-person marking form is used in the first sentence, where three is an overt personal pronoun, e.g. yomo amonan *me myself*, and the personmarking form is used in the second sentence, where there is no overt nominal, e.g. amyonan *yourself*.

069	<u>yəmo</u> 1sgABS		<u>nan</u> yənan ZsgERG	ena-yto-y ⁷ e? INV-pull.out-TH	//
	ii yes	ləyen really	tag- <u>amyənan</u> INTJ-only.2sg	11	
	"Did one"	you bear	only me?" [i.e. ".	Am I your only c	hild?"] — "Yes, you're the only [ot014-015]

In this example the restrictive adverb taŋamyənan *you alone* is the sole exponent of an NP in a zero-copula existential construction (see §17.2.4).

8

Nominal derivation

8.1 Introduction

Nominal derivation includes derivation with morphosyntactic functions, such as forming nominals from stems of other word classes (e.g. participles), or deriving nominals which are related to other nominals in an NP (possessive and relational), and purely semantic derivations, which modify the meaning of a stem without any morphosyntactic changes (e.g. spatial derivations).

•WORD CLASS CHANGING DERIVATIONS. The first part of this chapter (§8.2-4) will mainly focus upon deverbal nominalisations, which are interesting from a morphosyntactic point of view as they show formal influence of verbal grammatical categories and verbal semantics (particularly in the areas of transitivity and aspect). Section §8.2 describes the behaviour of participles, which are deverbal nouns oriented towards one of the underlying core syntactic roles (S, A, O) of the verb stem. The main participle-forming suffix also forms nominals from other classes, described in §8.3. Section §8.4 describes the action nominalisation, which is another deverbal noun derivation. Action nouns refer to the action/event of the verb in the abstract, without syntactic orientation towards any underlying argument. With participles and action nouns, nominalisation follows verbal derivational affixation. There are also deadjectival nominals, and nominals formed from adverbs, particles, numerals, and even interjections. Some of these nominaliser affixes also combine with noun stems. These combinations are also classified as nominalisation (and dealt with in this chapter) due to the formal similarities with other sorts of nominalisation, and also because of the semantic and functional similarities-the main being that a nominalisation of a neun stem has different reference to the noun stem alone, whereas other lexical derivations of nouns have the same basic deference (e.g. from the noun stem gora- reindeer the nominalised form goral'an means reindeer owner, not the reindeer itself, but a non-word-class changing lexical derivation such as the augmentative gorajnan big reindeer can refer to the same reindeer as the underived stem).

Chapter 8

NOMINAL DERIVATION

Section §8.5 considers a number of other derivational affixes which form nouns with more complex semantics, such as 'place', 'instrument' and 'container'. In §8.6 the various ways of deriving personal names are discussed.

NOMINALS

Chapter 8

The main nominaliser affix is the suffix -1?-, which can form nominals from all classes with a number of functions (§§8.2-3). Other nominalisers include -jo (passive participle; §8.2), $-\gamma = \gamma = \gamma^{+VH}$ (action noun; §8.4), $-n/-nw = \gamma^{+VH}$ (place of activity; §8.5), $-\eta = w^{-VH}/-\eta = w = \tau^{-VH}$ (names of and terms for women; §8.6) and -wji (names of men; §8.6). These nominalisers are more limited than -1?-, both in the classes of stems which they can derive from and in the number of functions which they carry out.

•POSSESSIVE AND RELATIONAL FORMS. Section §8.7 describes the possessive and relational derivations of Chukchi. These forms have a 'genitive' meaning, but function like a derived verb stem, not like a case form. Possessive and relational forms can act as head nouns in NPs, but more usually function as modifiers (§9.2.2).

•SEMANTIC DERIVATIONS. Sections §§8.8-10 describe a number of derivational affixes which modify word meaning without any syntactic function; these include some spatial derivations, speaker evaluation (diminutive and augmentative) and quantitative a rivations such as collectives and intensifiers.

8.2 Participles

There are two participle suffixes occurring with verb stems with positive polarity; the active participle suffix -1?- and the passive participle suffix -jo (plural -jot-te). When a verb stem is negated (either by the negative circumfix e-___-kə^{-VH} or the prefix lup-), the participle suffix -1?- forms both active and passive participles depending on the transitivity of the verbal stem (intransitives form active participles, transitives form passives, see below). The suffix -1?- occurs very frequently in Chukchi, and also derives nouns from stems of other word classes (§8.3).

The -I?- participles can be active or, with negative polarity, passive. The -jo participle has only positive polarity and is only passive. The key grammatical difference between the -I?- participle and the -jo participle is that the -jo participle is resultative and the -I?- participle is non-resultative (Haspelmath 1993:157-162). This means that the existence of the entity referred to by the -jo participle implies a previous event; the -I?- participle carries no such implication. The functional correlation between passive and resultative is well attested (see Nedjalkov & Jaxtonov 1988:17), and the clustering of passive and resultative in Chukchi positive polarity participles is typologically well motivated. In the negative the passive is not resultative, as by definition there has been no prior event, and so the non-resultative -I?- participles might be RESULTATIVE PARTICIPLE for the -jo

form, and NON-RESULTATIVE PARTICIPLE for the -I?- form. However, the distinction between 'passive' participles and 'active' participles also has to be retained to describe certain phenomena, e.g. passive participles can have agent nominals in the instrumental case (see discussion to examples G05-007).

From the intransitive stems tale-/-le- go or w?i- die the positive polarity participles are formed as follows:

təle-l?-ə-n go-PCPL-E-3sgABS one who goes w?i-l?-ə-n die-PCPL-E-3sgABS one who is dead

and the negative polarity participles are formed:

e-le-ka-l?-in NEG-go-NEG-PCPL-3sgABS one who doesn't go e-w?i-ka-l?-in NEG-die-NEG-PCPL-3sgABS one who isn't dead.

From the transitive stem tom-/-nm- *kill* and the positive polarity passive participle (i.e. the resultative participle) is formed with -jo:

tom-jo kill-PASS.PCPL.3sgABS one who has been killed,

but the negative polarity passive participle (non-resultative) is formed with -l?- just like the active participles:

e-nm-ə-kə-I?-in NEG-kill-E-NEG-PCPL-3sgABS one who isn't killed.

Unsurprisingly, passive participles are only formed from transitive stems. Less trivially, active participles are only formed from intransitives (this includes various intransitivised forms derived from a transitive). The motivation for this is not entirely clear, and may be historical rather than syntactic.

Participles usually act as regular nominal arguments in clauses, and are frequently attested in noun phrases as both heads (example 001) and modifiers (002-003).

The following examples illustrate passive participles:

 001
 tam-jo
 iyət-kin
 enmec
 n-ine-mlu-qin
 pew?en-e

 kill-PASS.PCPL.3sgABS
 now-REL.3sgABS
 only
 HAB-TR-delouse-3sgO
 wife-ERG

 The wife is already delousing the only just now killed one [i.e. He was just now killed, and already he is alive again and his wife is delousing him].
 [cy365]

Example 002 shows the passive participle with a plural:

. . . .

002	kolo! / INTS		PH DEICT-E-SIDE fly-??-crash-E-PLACE-LOC u-y-a-n <u>ratrel-jot-te</u> <u>wakw-a-t?</u>			
	wanewan NEG	q-ə-17u-y-ə-n INT-E-see-TH-E-3sg				
	Oh yes! Év arranged s	en over yonder whe tones? [i.e. how the	re the aero stones the	oplane crashed, h ere have been arra	ave you seen inged]	

The following example has a passive participle from the transitive verb rəp- which means (among other things) *stake something as a prize*.

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140.			NOMINALS		Chapter 8
003	?ire-remk-ə-k race folk-E-LOC	pəkir-y?i≃?m anive-TH=EMPH	<u>rəp-jo</u> stake-PASS.P	CPL3sgABS	<u>qorana</u> reindeer.3sgABS
	piri-nin / take-3sgA.3sgO	ena-wenaw-a AP-train-E-INCH-1		ənkə there	
	He arrived in th training there.	ne racers' encamp	oment, took	the prize re	indeer - he started [cy143]

As discussed above, negative passive participles are formed by means of the -l?suffix, not the -jo suffix. Example 004 shows a negative passive participle formed from the transitive verb wjat *untie*.

004	ləyen rezily	qora-t reindeer-3pIABS	γ e-kwut-linet PF-hamess-3plO	əngin Ihus
	ləyen really	<u>lon-a-wjat-a-li</u> NEG-E-untie-E-NA		
	He har	nessed the rein	deer, as they were	n't completely untied.

Occasionally the underlying syntactic agent (underlying A) of a passive participle is overtly specified. Usually this occurs in the instrumental case, as in examples 005 rəmajŋawjo əccənan (one) brought up by them, 006 moryənan rəyjolawətkojotte (ones) trained by us, and, with a negative passive participle, 007 enukəlinet ?oraweti?ata (ones) not eaten by people.

[cy267]

005	wanewañ NEG.NFUT	<u>rə-majn-aw-jo</u> CAUS-be big-TH-l	- 	cit first	<u>əcc-ə-nan</u> 3pi-E-INST	1	neməqej alsö	1
	macaw-ma light-SIM	a-tl?a-ka PRIV-mother-PR	n?el- IV becomi	•				
	No, she was motherless c	brought up by luring a war	them to b	egin w	ith / also /	she	d become	[kr154]
⁰⁰⁶ ,	<u>mory-ə-nan</u> 1pl-E-INST	qənur (like	•		o-tko-jot-te ITER-PASS.PC	PL-3p	IABS	
		aa-r?o-y?a-t nish-COLL-TH-3pl			nret∙ə-k≈?m Jard-E-INF=EMF		/ []	
	[Reindeer wa reindeer	ere] trained by	us, but n	ow the	y've complet	ely s	topped here	ding [he082]
007	e-nu-kə-l?-in NEG-eat-NEG-P		?orawetl person-INST					
	Are they not	eaten by peopl	le?					[ab4.09]

More rarely the underlying agent of a passive participle can occur as an absolutive case noun in the possessive derivation. Example 008 shows three examples: alwin jatoo (underlying form *jato-jo) the wild reindeer's one which is born, layeqoren jatojotte the domestic reindeers' ones which are born, and alwin tajkajotte the wild reindeer's one which is made.

Cha	pter 8 NOMINAL DERIVATION
008	<u>əlw-in</u> nekem waj <u>jəto-o</u> ənr?am wild.reindeer-POSS.3sgABS particularly DEICT bear-PASS.PCPL.3sgABS and
	nan <u>lave-qor-en</u> <u>jato-jot-te</u> DEICT AUTH-reindeer-POSS.3sgABS bear-PASS.PCPL-3pIABS
	<u>əlw-in</u> <u>tajk-ə-jot-te</u> əm-ənr ² am ele-k wild.reindeer-POSS.3sgABS make-E-PASS.PCPL-3pIABS REST-then summer-LOC
	omom-ə-jŋ-ə-k=?m [] heat-E-AUG-E-LOC=EMPH
	The wild reindeer's one is born, and [likewise] the real [domestic] reindeer's ones are born, the ones made of the wild reindeer are [only?] in summer, in t heat [ab3.
Pass	sive participles are very rare with non-absolutive case marking
spon	taneous examples in the corpus). The passive participle suffix -jo is obligate
with	transitive verb stems occurring with certain derivational suffixes. The su
	I, which derives a noun with the meaning 'used for X', 'equivalent to X', o
	r with a nominalised transitive verb stem only when the verb stem is in
pass	ive participle form (it can derive nouns from noun stems directly, e.g. at
	adoptive mother < atl?a- mother). Example 009 shows the word roolqal t
	-jo-lqəl), derived from the transitive verb ru-/-nu- eat:
009	əmə ənge KROV e-nint-ə-ke / neməqej tury-in and NEG.HORT blood NEG-throw-E-NEG also 2pl-POSS.3sgABS
	ru-o-lgəl / əməl?-etə eai-PASS.PCPL-NMZR.3sgABS all-ADV
	Don't throw away even the blood, that's also your food, everything. [kel
	nple 010 shows a derived noun jaajolqəl <i>piece of equipment, thing which</i> derived from the transitive stem jaa- <i>use</i> .
010	ənqen n-ə-tejk-ə-qin ənan-kəkw-a / ləyen=?m DEM.3sgABS HAB-E-do-E-3sg SUPER-dry-ADV really=EMPH
	kəkwat-etə ewən wa-1?-ə-n n-ə-mit?enumkew-qin dry-ADV INTS be-PCPL-E-3sgABS HAB-E-hide-3sg
	kəmniyet-kin jaa-jo-lqəl birth-REL.3sgABS use-PASS.PCPL-NMZR.3sgABS
	That is done with a really dry one, a dried out one [to be] used for births put aside ("hidden") earlier. [chu
The a	active participle can only be formed from intransitive stems. Example 0
	s an active participle acting as an NP head, example 012 shows an acti
	ciple as a dependent within an NP.
011	ewat ye-r 3%/iw-e=?m <u>mec-mejnet-a-l?-a-t</u> =?m ewat so COM-make.camp-Vbase=EMPH APPR-become.big-E-PCPL-E-3piABS=EMPH so
	ye-wey-ə-tku-l ⁷ et-e ralqaŋ-ə-nwə-k / ya-wəlpa-tko-ma

COM-claw-E-USE-DUR-Vbase make.camp-E-PLACE-LOC COM-shovel-USE-SIM While making camp the somewhat grown up ones clean the snow away (lit. scratch) at the campsite, shovelling. [ch24]

142.			N	Nominals			Chapter 8		
012	[]	ənqen DENi.3sqABS	qol QUANT.3sgABS	1	<u>w?1-1?-ə-n</u> die-PCPL-E-3sqABS	<u>леwэсqet</u> woman.3sqABS	[]		
that one dead woman							[ka34]		

The negated stem of negative participles can be formed from the e-__-kacircumfix or the lun- prefix (see §18.7.1 for examples and further discussion). Negative participles formed by the e-___-ka- circumfix and the -l?- suffix take the endings -in (absolutive singular) and -ine- (derived, plural, or oblique), e.g. aalomkal?en disobedient one (<*e-walom-ka-l?-in NEC-listen-NEG-PCPL-TH.3sgABS), aalomkal?enat disobedient ones (<*e-walom-ka-l?-ine-t NEGlisten-NEG-PCPL-TH-3plABS). Negatives formed by the lun- prefix take the normal -n final (morphological type III; §6.3.1) absolutive suffix, e.g. lunulwewəl?ən unresting one (<*lun-ulwew-ə-l?-ə-n NEG-rest-E-PCPL-E-3sgABS). It is unclear how to motivate the -in(e-) ending which occurs with negative participles in e-____-ka-. It is hard to suggest a semantic motivation, particularly since it is never used with the lun-negative. It may be significant that -in(e-) also does not appear when a negative participle in e-___-ka- is used as a personal name (see §8.6 for examples). There does not seem to be any correlation between the use of -in(e) with e-__-kə- negatives and any of the other uses that -in(e-) has, such as possessive, demonstrative endings, and so on.

To make an active participle from a verb with a transitive stem the verb stem must be intransitivised. It can be antipassivised, using either (or both) of the antipassive morphemes ine- (note this prefix is not the same as the suffix discussed above) and -tku, or it can incorporate an object (§11.6.2).

Example 013 illustrates use of the transitive verb stem penr- attack. Example 014 shows the same stem antipassivised with the antipassive + iterative suffix -tku in an active participle:

013	ənqen neme DEM.3sgABS again Again this big reir	reindeer-AUG	·E·ERG	ya-penr-a-ler PF-attack-E-3sg harged him.	n ya-jayna-le PF-charge-3sg	n <i>[cy222]</i>
014	<u>penr-ə-tko-1?-ə-jŋ-ə-n</u> attack-E-AP.ITER-PCPL-E-AUG-E-3sgABS			iŋ-ə-n -AUG-E-3sgABS	ənqen DEM.3sgABS	
	n-ə-qora-yt-at-qen HAB-E-reindeer-drive-TH					
	That attacking reindeer drove the others.					

Negated active participles formed from underlyingly transitive stems must also be antipassivised (§18.2.5).

Incorporation is a common intransitivisation strategy used for forming active participles.

Chapter 8		Nominal Deriv		143.	
015	ten-ənjiw good-uncie.3sgABS	<u>qora-nla-17-a-n</u> reindeer-lead-PCPL-E-3sgABS	wulqətwi-k evening-SEQ	ye-1qət-1in PF-set.off-3sq	
	ŋalwəl?-etə herd-ALL	cit ye-nju-lqət-lin līrst PF-do.night.watch-set.of	•		
	The good uncle, Intending to do	who was leading reindee the night watch.	r, in the eveni	ng went to the .	herd, [cy168]
016	gora-yarke-l?-en reindeer-catch-PCPL-				., ,
	He set off to tho	se who had caught their r	eindeer		[cv088]

As already stated, the verb stem of active participles is always intransitive. This means that the underlying subject (S) of the verb stem is coreferential with the referent of the participle. Because of the nature of the Chukchi NP (largely appositional, almost always absolutive; §9.2) it is meaningless to try to distinguish an NP with a noun and an active participle from an active participle with overt subject. However the oblique arguments of participle verb stems are preserved. For example, 017 shows a participle formed from the verb stem tale-/-le- go with a locative complement, and example 018 shows a participle formed from the copula verb wa-/-twa- with an adverbial complement (for a further example of the latter, see the phrase kakwateta wal?an a dried out one in example 010).

017	ŋinqej∙qej boy∙DIM.3sgABS	<u>təle-17.</u> Go-PCPL	<u>ə-n</u> •E-3sgABS	<u>moo-r?et-jekwe-k</u> caravan-path-PERL-LOC	1		
	[?] ətt [?] əjoca		qatlə-tko-j				
	in.front HAB-TR-crawl-ITER-COLL-E-3sg						
	The boy going along the caravan path crawled in front of it. [jo024						
018	qərəm-ewən	itək	ənqena-t	<u>?aqa-tamjen-ə-ŋ</u>	wa-l?-ə-t		
	NEG-INTS	S0	DEM-3pl.AB	S IMPOSS-trick-E-VBase	be-PCPL-E-3pl.ABS		
	No way, they	-	[an021]				

8.3 Non-participle derivations with -l?- and -c?-

The suffix -1?- derives nominals from all word classes (including other nominals). Nominals derived from verb stems by means of this suffix are participles, and are treated above (§8.2). The meaning of the non-participle derivations with -I?depends on the semantics of the stem, although there is the semantic link that -1?derives a noun specified by its relation to another word:

• SPATIAL TERM. With a spatial term the -1?- suffix forms a word indicating a person or thing originating from that place. Thus, from the noun emnun tundra it is possible to derive emnun-a-l?-a-t tundra folk (tundra-E-PCPL-E-3plABS). Note that this contrasts to the relational formed with -kin(e-), e.g. emnug-kine-t tundra-REL-3plABS [thing] from the tundra (emnunkinet mrenti tundra mosquitos; §8.7.2). It is likewise possible to form one of these -I?- nominalisations with a spatial adverb, such as jaat-a-l?-a-t ones situated behind (behind-E-NMZR-E-3plABS) from the adverb jaat behind.

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019 ?ire-l?-ə-t pəkir-y?e-t / teŋ-ənjiw taŋ-ənan-?ətt?əjoca race-PCPL-E-3pIABS arrive-TH-3pl good-uncle.3sgABS INTS-SUPER-in.front.ADV ya-twa-len / ?eqe-njiw ənqen macənan <u>jaat-l?-ə-k</u> PF-be-3sg bad-uncle.3sgABS DEM.3sgABS enough behind-NMZR-E-LOC	The following two examples are typical. Example 023 shows the noun w?e-tko yəry-ə-n <i>plague, epidemic, death</i> , which is derived from an iterative (-tku suffix) form of w?i- <i>die</i> .
?att?ajoca ya-twa-len in.front.ADV PF-be-3sg The racers arrived. The good uncle was first of all. That bad uncle, he was a little in front of the following ones.	023 ?otcoj ŋan=?m / ŋan ləyi=?m ŋan [#] / long DEICT=EMPH DEICT know.VBASE=EMPH DEICT ' yemo=?m ŋotqena-tko-rək eyət-kena-?oraweti?-a not.know.VBASE=EMPH DEM-COLL-ANpl.ERG now-REL-people-ERG
•PHYSICAL ENTITY. With a term indicating a physical entity a -1?- derived noun indicates a person or thing possessing that entity, as in the following example: 020 [] kake wane-qaj <u>qon-qora-1?-eyat</u> mengqo? INTJ INTJ-DIM one-reindeer-NMZR-2sgABS whence? Well well, you with one reindeer Where have you come from? [cy104]	njine-l?-e janwa tan-yemo <u>w?e-tko-ycry-ə-n</u> young-NMZR-ERG ?? INTS-not.know.VBASE die-ITER-NMZR-E-3sgABS njanqen njan / ətr?ec walom-a et?əm n-ə-nt-ə-qin DEM.3sgABS DEICT only hear-VBase apparently HAB-E-AUX-E-3sg For a long time well all these ones, today's people, youth, don't know a thing about death, they've only heard about it apparently. [he006]
A more consciously contrived example is the tongue twister by Jawkake: 021 yamo <u>par?o-w?are-kenu-nene-l?-iyam</u> 1sgABS three-fok Dick-tool-NMZR-1sgABS	Example 024 has an action noun derived from wicet- <i>be worried</i> (note that the -er in wicet- is a thematic suffix which occurs only in the absence of other derivationa suffixes which fill that slot, such as the collective -r?u; §§14,2-3):
I have a three pointed waiking stick [j]awkake 230895] • PROPERTY. A nominalisation with -l?- formed from a word indicating a property makes a term for an entity having that property. D22 'eqe-l?-e neme na-kamlelta-nat bad-NMZR-ERG again 3pl-surround-3pl The evil ones again surrounded them. [jo003] Fhis is most common with adjective stems, as with the adjective 'eqe- bad in example 022, but also occurs with abstract nouns, as in the -l?- nominalisation of the abstract/action noun in example 025 below. The suffix -c?- gives more lexicalised versions of words formed with -l?-: weriw-a-l?-a-n 'it is sour, the sour one' weriw-a-c?-a-n 'cowberry' (a type of berry which is very sour, Rus. brusnika)	 024 [] angatal wec-a-r?o-yary-a-jŋ-a-n / qanwer mejget-y?i aker.all worried-E-COLL-NMZR-E-AUG-E-3syABS finalty become.big-TH After all he was really worried [when] finally he grew up [ot032] Example 025 shows two sorts of nominalisation, the action noun w?are-t?ac-yary meaning sexually transmitted disease (morphemic structure: fork-be.sick-NMZR i.e. a sickness where the legs part) with the possessor nominalisation with -l?- t mean one who has a sexually transmitted disease. 025 Etetl?en=?m anqen n-iw-qinet Etetl?en Yukaghir.3sgABS=EMPH DEM.3sgABS HAB-say-3µl Yukaghir.3sgABS tap-am-w?are-t?ac-yary-a-l?-a-n penin n-a-lyi-w?e-t?al-qin EMPH-REST-lork-be.sick-NMZR-E-3sgABS previously HAB-E-INTS-die-be.sick-3sg Yukaghirs, they say Yukaghirs are always sick between the legs [i.e. sexually transmitted disease], it was a fatal illness. [kr062]
8.4 Action noun derivation (-yəry-* ^{VH}) The suffix -yəry* ^{VH} derives an 'action noun' from a verb, or, occasionally, an adjective or noun. An action noun is a derivation which forms a word referring to the act or state indicated by the verb stem (Comrie 1976b). They are thus not participles, as they are not oriented towards any of the underlying syntactic arguments of the verb stem. The suffix can be applied equally to transitive and intransitive verb stems, and is not subject to any transitivity related phenomena	Action nouns can be formed from verbal stems with incorporated objects: 026 ank?am / angen ganut telenjep-kin angen iyar CONJ DEM.3sgABS like long.ago-REL.3sgABS DEM.3sgABS now qanur <u>gora-yanret-yary-a-n</u> =?m talanjap-kena-jpa=?m like reindeer-guard-NMZR-E-3sgABS=EMPH long.ago-REL-ABL=EMPH mat-ket?o-rkan=?m 1pl-remember-PROG=EMPH And, like from long ago, this reindeer herding ncw [us] from long ago, we remember. [he074]
(such as the obligatory intransitivisation required by active participles, §8.2). Their semantics are not quite predictable, and it is unclear whether they are fully	027 ənqen ənan <u>nawən-ra-yt-at-yəry-ə-n</u> ye-tejk-ə-lin DEM.3sgABS 3sgERG wile-house-go.to-TH-NMZR-E-3sgABS PF-make-E-3sg It was she who made up the marciage ceremony

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productive.

[ke241]

It was she who made up the marriage ceremony.

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Bare transitive stems without any intransitivisation can also form action nouns; for example, the noun rakwary- *hole* is formed from the transitive verb rew-*pierce* (<*rew-^{VH}-yary*^{VH}-).

The action noun formed from the transitive verb tani-/-nni- sew means seam:

028		-tityət-et-jəw-nin Jse-separate-CS-COLL-3sgA.3s		<u>əne-yəry-ə-t</u> ew-NMZR-E-3plABS				
	ənqen DEM.3sgABS rə-rər-an-ner CS-spread-CS-3s		/ nelɣ-ə-n IsgO hide-E-3sgAl	yaryən BS outside.ADV				
	He cut the seams all apart, cut along them, spread the hide out outside							

[cy341]

Action nouns can also be formed from noun stems. The derived noun has an abstract meaning related lexically to the stem, e.g. example 029 has the action noun <code>yalwəl?əyəryən</code> herding which is derived from the noun <code>yelwəl</code> herd, and example 030 has the action noun <code>?aqaleyyəryən</code> terror derived from a complex noun formed by an adjective <code>?eqe-</code> bad incorporated with the noun <code>lig-</code> heart.

029	ənqorə then	qənur like	iwke= so=EMP	• • • •	•		
	ən <u>n</u> atal INTJ	əngin=?m thus=EMPH		c-et?opel R-somewhat	remk-ə-n folk-E-3sgABS	wec?əm maybe	
		ome TH-3sg	l qənı like perhaps	herd-E	<u>vəl?-ə-yəry-ə-t</u> -NMZR-E-3pIABS tter, if people v	vouid start herdi.	ng [he107]
030	"kəke INTJ	wəne! ətl INTJ INT		egqora?" ience?	qora-ytə reindeer-ALL	n-ajəlyaw-qen HAB-be.afraid-3sg	
	"okkoj INTJ	qora-ŋə reindeer-3syAl	/ 35		2aqa-len-yəry- bad-heart-NMZR-E-		
		r mel Where , It's terrifyin		/ from?"	She feared the	reindeer—"Oh w	hat [cy431]

8.5 Nominalising derivations

There are several other types of nominaliser which form nouns with slightly unpredictable meanings. These forms a reasonably productive, although nominalisations of particular stems are frequently conventualised (e.g. the container nominalisation **penjolyan** denotes *fireplace* but not *ashtray*, although both could be thought of as *containers for ashes*).

•LOCATIVE NOMINALISATION (Comrie 1985:355). The derivational suffix -n*^{VH/} -nwə- derives a noun from a verb indicating an action or state and means the place where the action or state occurs, for example təla-n *path*, təla-nwə-t *paths* is derived from the verb təle-/-le- go. •'AGE' NOMINALISATION. The derivational suffix -ja forms a small set of deverbal and deadjectival nouns meaning an age or era characterised by the stem, e.g. w?etko-ja-n *epidemic*, 'time of dying' die-COLL-NMZR-3sgABS, ənp-ə-ja-n old timer old-NMZR-3sgABS.

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•INSTRUMENTAL NOMINALISATION (Comrie 1985:353). The derivational suffix -inen(e-) indicates a tool or apparatus derived from a verbal stem. The verb stem must be intransitive. For example, the noun rigeneng *aeroplane*, *helicopter* (plural rigenenge-t) is formed from the intransitive stem ringe- *fly*; if this derivation is to be used with a transitive stem, the stem must be intransitivised, either by incorporation (w?aj-ə-cwe-tko-nang *scythe* grass-E-cut-ITER-TOOL.3sgABS) or by antipassivisation (ine-n-ə-yjiw-et-ə-tku-neng *sign*, *symbol* AP-CS-E-know-CS-E-ITER-TOOL.3sgABS).

•'CONTAINER' NOMINALISATION. The derivational suffix -joly- forms a nominal with meaning 'container'; Derivations may be deverbal (wetyaw-joly-ə-n *radio* speak-CONTAIN-E-3sgABS) or denominal (pen-joly-ə-n *fireplace* ash-CONTAIN-E-3sgABS).

8.6 Personal names

Personal names are regular nouns, and their only universally distinctive morphological feature is that they obligatorily use the high animate declension pattern. Many personal names are derived nouns, both participles and other nominalisations (Chukchi naming practices are discussed in §1.1.4). The name Wəkwəraytəyəryən is an action noun, literally meaning *Homecoming stone* (wəkw-ə-ra-үt-ə-yəry-ə-n stone-E-house-go.to-E-NMZR-E-3sgABS). Because of the obligatory use of the high animate declension, negative passive participles look slightly different in the absolutive when they are being used as personal names than when they are common nouns, e.g. the participle aalomkəl*en *disobedient one* (*e-walom-kə-l?-in(e-) NEG-listen-NEG-PCPL-TH.3sgABS) has the distinctive -in(e-) suffix of the negative passive participle formed by e-___-kə-, but this suffix does not occur when the same participle is used as a personal name, e.g. Aalomkəl?ən. The distinction is clearer in the argative case; the common noun participle is aalomkəl?enata (ergative suffix *-te-VH), whereas the personal name is Aalomkəl?əna (ergative "uffix *-ne-VH).

The nominalisers -newst and -wji are only used with personal names.

Women's names are frequently derived by means of the affixes yew-VH, -yew-VH and -yewət-VH. These suffixes form women's names from almost any class of stems. Much of the data used in this work comes from yawkəke, whose name is derived from the interjection kəkel, kəkekəkel an exclamation of .mazement used by women, and from 'Ejyewyewət whose name is derived from the intransitive verb 'ejyew- cry out. The suffix -yewət only forms persona! names, but the cognate affixes yew- and -yew also derive other words for females. The prefix yew- forms

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the female of all types of animals, and the suffix -new derives the word anpanew old woman, granny from the adjective stem anp- elderly (note that there is no corresponding suffix deriving a word for man—the word for old man, grandad is formed from the stem anp- by means of the high animate thematic suffix and the augmentative suffix, giving anp-a-na-cy-a-n elderly-E-AN-AUG-E-3sgABS).

The suffix -wji forms personal names from verb and noun stems; e.g. Rintuwji < rintu *throw*, Tampewje < tampe-*^{VH} get lost, ?att?awji < ?att?a- *dog*. These names are always the names of men. It is mostly interesting linguistically because it is perhaps the only non-grammatical morpheme which doesn't seem to have any synchronically recognised meaning. The form is possibly cognate with the Koryak plural suffix -wwi, but if it's cognate with a plural it's odd that it can go on verb stems. Local Chukchis have pointed out to me it's similarity-to the verb stem wji-*breathe*, but not with any conviction (§1.1.4).

8.7 Possession and relation

There are several morphological strategies for showing possession or origin within a noun phrase. Possessive and relational forms can be used as NP heads, or can be modifiers within an NP.

•The POSSESSIVE suffix -in(e)- derives a noun indicating something possessed by means of suffixation on the stem indicating possessor; e.g. qor-ena-t qejuu-t (reindeer-POSS-3pIABS calf-3pIABS) *calves belonging to the reindeer*. These forms generally occur in the absolutive case, but can be marked for other cases too. See §8.7.1.

•The RELATIONAL suffix -kin(e-) has the same morphosyntactic behaviour as the -in(e-) suffix, but indicates source, origin, or purpose rather than possessor; e.g. qora-ken orwor (reindeer-REL.3sgABS sled.3sgABS) reindeer sled; telenjep-kin ?orawetl?an person from the olden days. See §8.7.2.

•The nominaliser suffix -1?-. Identical in form to the participle suffix. This suffix can attach to a noun or adjective to form a noun indicating the possessor of that object or quality. This has been discussed above (§8.3).

•Possessors can be prefixed to their possessed to make a nominal with incorporated possessor. See the discussion of nominal incorporation, §9.4.

The **-in(e-)** and **-kin(e-)** forms usually derive words from other nominals, but can also derive nouns from verbs, for example:

031 ewst ya-tajo-tko-mo-ta man then CONV-beat.snow-ITER-INCH-CONV DEICT jalyat-ken inage-t nomadise-REL.3sgABS cargo.sled-3piABS

Then (they) begin beating off snow from the cargo sleds used in nomadising...

[ch25]

The noun **jalyətken** in the above example is derived from the verb stem **jalyət**- to nemadise, migrate, move camp.

In addition to the possessive nominalisations listed above, there is also a special circumfixed nominal form made up of the γ e- prefix and a pronominal suffix. This form marks a possessed predicate only; it cannot function as an argument of a verb. It is described in §17.4.

8.7.1 Possessive suffix -in(e)-

The possessive form is not a case suffix¹. Nouns with the possessive marker can act as arguments of a verb in their own right and can be followed by other nominal derivational and case morphology. Usually however, they form part of noun phrases. The possessive suffix indicates solely that the stem is a possessor; all subsequent affixes for person or number indicate features of the possessed nominal.

The possessive suffix has the underlying form *-ine, which precedes all case suffixes (as well as derivational suffixes fused with case suffixes, such as the diminutive and augmentatives), and which follows all purely derivational suffixes. In the absolutive singular this suffix is truncated, to form a fused possessive-absolutive suffix (morphological class Ic. deleted final vowel).

Example 032 shows a noun phrase with possessive forms kel?in of the spirits and w?iremkin of the dead folk.

032	ənkə j	ara-mk-ə-jŋ-ə-n	<u>kel?-in</u>		
	there h	ouse-GROUP-E-AUG-E-3sgABS	spint-POSS.3sgABS		
	ənqen	<u>w?i-remk-in</u>			
	that.3sgABS	dead-folk-POSS.3sgABS			
	There wa	[cy410]			
Recu	irsive poss	essors do not occur very o	ften. Example 033 is a rare exami	ole:	

033	Jare-ñ	uweqə c-in	ətləy-ə-n	
	Jare-POSS.3sgABS	ausband-POSS.3sgA6S	father-E-3sgABS	
	[He was] Jare's	husband's father.		[ot128]

PRONOMINAL POSSESSORS are produced regularly, by means of a pronominal stern and the possessive suffix:

034	aménan only	γe•w?i•lin PERF•die•3sg	ənqen Ihat.3sgABS	cal:əyet sister.3sgABS	yən∙in 2sg•POSS.3sgABS	
		[ot017]				

¹ Koptjevskaja-Tamm proposes an analysis of the Chukchi possessive and relational forms, suggesting that they represent a form of double case marking (suffixaufnahme': Koptjevskaja-Tamm 1995).

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FIGURE 8.1. Possessed pronouns.

possessed:

	, <u> </u>	3sg	3pl
possessor;	1sg	yəmn-in	yəmn-ine-t
	1pl	mury-in	mury-ine-t
	2sg	yən-in	yən-ine-t
	2pl	tury-in	tury-ine-t
	3sg	ən-in	ən-ine-t
	3pl	əry-in/əcc-in	əry-ine-t/əcc-ine-t

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Note the absence of the thematic suffix -ke which goes on the case-marked forms of the personal pronouns (§6.2, fig. 6.2).

When the possessed entity is not third person, a person-number suffix is added. The following examples have pronoun possessors, but noun possessors are also possible:

035	<u>tury-ine-yəm</u> 2pl-POSS-1sgABS <i>I am your(PL) h</i>	qora-yənret-ə-l?-eyəm reindeer-herder-E-NMZR-1sg erdsman	[na092:1]
036	<u>yamn-ine-turi</u> 1sg-POSS-2pI.ABS <i>You (PL) are my</i>	tələ tumy-ə-turi tavel-fiend-E-2pi v fellow travellers	[na092:2]

The Telqep variety of Chukchi does not usually do number agreement with a possessed nominal when the possessed nominal is overtly present. Dialects which do, including the closely related dialect of the Onməl'ət (many of whom live in the village of Kanchalan) would require -ine-t. All dialects mark number of the possessed when the possessed nominal is not present in the nominal phrase. Compare example 037 (plural possessed, no number agreement), from a Telgep speaker, to example 038 (plural possessed, number agreement), which comes from a text by a woman in Kanchalan, coout 50km to the north-west.

then that	n <u>?eqe-njiw-in</u> bad-uncle-POSS		<u>ce-t</u> =?m 3pIABS=EMPF	4	
lejw-ə-l?-ə-t walk-E-NMZR-E-3piAi	• •	cyi			
that.3sgABS race-	nnounce-E-INCH-PF-3pl	ļ	nère, as soo	on as they hea	nrd [cy352]
	OSS-3plABS boy.3s	gABS≈EMPH a	Ind	daughter-DIM.3sc	
	lejw-ə-I?-ə-t walk-E-NMZR-E-3pIAB ənqen ?era that.3sgABS race-a <i>Then that bad un</i> <i>about the race.</i> mei-ŋeiwəl?-ə-k EVID-herd-E-LOC <u>Təlel?-ə-n-ine-t</u> personal.name-E-TH-P	lejw-ə-l?-ə-t jet-y?e-t e walk-E-NMZR-E-3piABS come-PF-3pi a ənqen ?era-mpəl-at-ə-nyno-y?a a that.3sgABS race-announce-E-INCH-PF-3pi a Then that bad uncle's sons came, t a about the race. mel-nelwəl?-ə-k n-ə-twa-jyəm EVID-herd-E-LOC HAB-E-be-1sg Talel?-ə-n-ine-t personal.name-E-TH-POSS-3plABS boy.3sg	lejw-a-I?-a-t jet-y?e-t ecyi walk-E-NMZR-E-3pIABS come-PF-3pl as.soon.as anqen ?era-mpal-at-a-npo-y?a-t that.3sgABS race-announce-E-INCH-PF-3pl Then that bad uncle's sons came, they walked th about the race. met-pelwal?-a-k n-a-twa-jyam n-iw-qinet EVID-herd-E-LOC HAB-E-be-1sg HAB-say-3pl TaleI?-a-n-ine-t ginqej=?m a personal.name-E-TH-POSS-3pIABS boy.3sgABS=EMPH a	lejw-a-I?-a-t jet-Y?e-t ecyi walk-E-NMZR-E-3piABS come-PF-3pi as.soon.as angen ?era-mpal-at-a-ppo-y?a-t that.3sgABS race-announce-E-INCH-PF-3pi Then that bad uncle's sons came, they walked there, as soot about the race. mel-pelwal?-a-k n-a-twa-jyam real-yelwal?-a-k n-a-twa-jyam really Talel?-a-n-ine-t gingej=?m ank?am personal.name-E-TH-POSS-3plABS boy.3sgABS=EMPH	lejw-ə-1?-ə-t jet-y?e-t ecyi walk-E-NMZR-E-3plABS come-PF-3pl as.soon.as ənqen ?era-mgəl-at-ə-ŋŋo-y?a-t that.3sgABS race-announce-E-INCH-PF-3pl Then that bad uncle's sons came, they walked there, as soon as they heat about the race. mel-gelwəl?-ə-k n-ə-twa-jyəm n-iw-qinet ləyen ənqena-t EVID-herJ-E-LOC HAB-E-be-1sg HAB-say-3pl really this-3plABS Təlel?-ə-n-ine-t ginqej=?m ənk?am gzekke-qej

EVID-her:J-E-LOC	HAB-E-be-1	sg HAB-sa	- y-3pl	really	this-3plABS	
<u>Təlel?-ə-n-ine-t</u>		ŋinqej=?m		ənk?am	nzekke-gei	
personal.name-E-TH-POS	SS-3plABS	boy.3sgABS=EMF	Ϋ́H	and	daughter-DIM.3se	ABS
It seems I was in the belonging to Talef	he herd (al 22n, the be	the time] th	iey sa	ay, Just the	se (children	(L_0) A
beionging toj 18ter	on, the bu	y and the gill	•			[kr014]

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Plurality of possessor noun is marked by the suffix -ry- prior to the possessive suffix. This suffix is probably etymologically the same as the -rək suffix used in high animate plural declensions (i.ery-, -rək# < $*$ -rk).
039 enmen angen Jare / anyway this.3sgABS Jare.3sgABS Jare.3sgABS anpanacy-a-qaj-a-ry-en neekak old.person-E-DIM-E-3pl-POSS.3sgABS daughter.3sgABS Anyway, this was Jare, the old people's daughter. [ot007]
An interesting subset of possessive examples have 'dative' type meanings, as shown in examples 040-041:
040 ətləy-ə-n iw-nin / "atej! <u>yəmn-in</u> father-E ABS say.3sgA.3sgO Dad.VOC! 1sg-POSS.3sgABS pojy-ə-qaj q-ə-tejk-ə-y-ə-n" spear-E-DIM.3sgABS INT-E-make-E-TH-E-3sgO He said to his father "Daddy! Make me a little spear" [otD2]]
041 ənqen <u>yən-in</u> ənqen ənpənacy-ə-qay-te DEM.3sgABS 2sg-POSS.3sgABS DEM.3sgABS elderly.person-E-DIM-3piABS telenjep-kine-t ?amən anə! long.ago-REL-3piABS INTJ INTJ
That would be some real old timers for you! Oh yes![kr200]
8.7.2 Relational suffix -kin(e)-

The relational is a form morphosyntactically like the possessive. It derives a nominal which takes case marking, and which occurs in appositional nominal phrases. The relational form defines its head according to place of origin, time of origin, or purpose. It can derive nominals from other parts of speech, particularly verbs (indicating purpose) or adverbials (of place or time).

Deverbal relational form (<iwtalet vi. descend)

042	iwtəlet-k decend-REL <i>a road fo</i>	.3sgABS	?orawetl?-en person-POSS-3sgABS to descend by	r?et road.3sgABS		[nb039.1]
Deä	dverbal rei	lational	form (<iyət adv.="" th="" too<=""><th>lay).</th><th></th><th></th></iyət>	lay).		
043	ənk?am and	caj DEICT	Təjulqut personal.name.3sgABS	iyət-kin now-REL.3sgABS	ŋotqen that.3sgABS	1
	T 7ejunte personal.nar	-	•	ə-n •3sgABS	2	
	And there	e's that '	Təjulqut of today, T	ejuntey rew's fat.	her.	[kr134]

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Denominal relational form (<j'ily- n. moon), indicating place of origin:

044	ŋote-nqac here-SIDE	ta-y? pass-F		n ənpənacy-ə-n old.ınan-E-3sgABS		<u>r-ə-kin</u> h-E-REL.3sgABS
	orw-ə-tara sled-E-build.ho	• •		n-ə-yatya-tko-qen HAB-E-adze-USE-3sg	1	iw-nin say-3sgA.3sgO
	okkoji INTJ	meji INTJ	yeken-ə- ride-E-PCF	-17-a-qej PL-E-DIM.3sg		, , , ,
	He came of	ut of th	ere, the o	ld man from the mo	n it s	seemed he was

He came out of there, the old man from the moon it seemed, he was working in the leeward side of a house made out of sleds with an adze, he said to him "Hey! It's a rider!". [cy187]

Denominal relational form (<cawcəca-n. rich herder), denoting origin or source:

045	<u>cawcəwa-ken</u> rich.herder-REL.3sgABS	ewət so	enaral?-ə-t neighbour-E-3p!ABS	ningey-ti child-3plABS	1
	n-ə-təəz ye.na-2 HAB-E-be-3pl	əmə also		·	
	The rich herder-ne	eighbours	had children too.		

[ot004a]

Plural marking of the relational form is the same as that of the possessive; plurality of the possessed is usually only marked in Telqep Chukchi when the possessed nominal is plural but not present in the clause. Example 046 shows a sentence with a plural possessed noun; number is unmarked on the relational form:

046	n-iw-qinet HAB-say-3pi		<u>remk-a-ki</u> olk-E-REL.3sg	_		<u>wal-te</u> 3plABS	"ok INTJ	kakoj INTJ	
	Cokwanaqaj personal.name.3s	gABS	ərimec already	qəy lookl			winew-c train-3sg	yin	
	The men of the training [it]".		ers' encam	ipmei	nt sai	d "Oh bo	ny, look	at Cəkwaya	iqaj already [cy1·16]

Example 047 has a plural marked relational form; no other head noun is present:

047	kaara-cəko-kena-t nursery.sied-INESS-REL-3pIABS	jən-nenat qo.for-3A.3plÖ	1	Cəkwaŋaqaj-ə-na personal.name-E-ERĞ	
	Cəkwayaqaj went for those	u	the i	•	[cy290]

Pronouns can also make relational forms. The pronoun head is generally augmented by a thematic suffix -ke before the relational suffix; this thematic suffix occurs with case-marked personal pronouns (§6.2), but not with the possessive derivation (§8.7.1):

048	<u>ər-ə-ke-kine-t</u> 3pl-E-TH-REL-3plABS	awce-nwa-t pasture-PLACE-3pIABS	
	thelr pastures		[na107:12]

Cha	pter 8	Nomi	NAL DERIVATION		153
019	ik-w?i / say-TH nəmnəm settlement.3sg.	ŋew-?ətt?-ə-qej-e wcman-dog-E-DIM-ERG q-ə-j?o-ү-ə-n ABS INT-E-go.to-TH-E-3s	iw-nin say-3sgA.3sgO / ŋencil aO thither	.	ICT
	DEVUSHKA girl	q-ə-piri-y-ə-n INT-E-take-TH-E-3sg	<u>ən-ke-kin</u> 3sg-TH-REL.3sg/		
	She said, t bride, take	he dog said to him, " a giri from that (plac	Visit that there ce)".	settlement, go there to	o find a [ke155]

However, relational pronouns with SAP heads have alternative forms with -ine instead of -ke (see also §8.7.1):

FIGURE 8.2. Relational pronouns.

		person/number	of modified nominal
	<u> </u>	3sg	3pl
pror an head	1sg	yəmn-ine-kin	yəmn-ine-kinet
	1pl	yəm-ə-ke-kin mury-ine-kin abur-ə-ke-kin	yəm-ə-ke-kinet mury-ine-kinet mur-ə-ke-kinet
	2sg	yən-ine-kin yən-ə-ke-kin	yən-ine-kinet yən-ə-ke-kinet
	2pl	tury-ine-kin tur-ə-ke-kin	tury-ine-kinet tur-ə-ke-kinet
	3sg 3pl	ən-ke-kin ər-ə-ke-kin	ən-ke-kinet ər-ə-ke-kinet
		I	

8.8 Spatial derivation

Chukchi nominal spatial relationships are indicated by spatial cases, spatial derivations, and spatial adverbs/postpositions. There does not seem to be a semantic motivation for the selection from these morphosyntactic strategies; rather, their position on the grammaticalisation cline seems to be a result of historical accident. The spatial derivation affixes are -tkən*VH TOP, -ŋqac SIDE, -ləŋ-/-ly- SIDE, -curin EDGE. The absolutive case form of nominals with these derivations generally refers to the corresponding part of the matrix nominal, rather than a spatial location. The derivations -tkən and -ŋqac indicate the absolutive case without a further case marker; -ləŋ-/-ly- and -curin- mark the absolutive singular with the suffix -n.

Stem:	Absolutive singular:
•tkən* ^{vH}	orw-ə-tkən <i>top of a sled</i> (allative: orw-ə-tkən-etə)
-ŋqac(a-)	jara-ŋqac <i>side of a house</i> (allative: jara-ŋqaca-ɣtə)
-ləŋ-/-ly-	yəty-ə-ly-ə-n edge of a lake (allative: yəty-ə-ly-etə)
-curm-	weem-curm-ə-n side of a river (allative: weem-curm-etə)

These derivations are frequently marked with locational case, most frequently locative or the basic directional cases (allative, ablative):

154.				NOMINAL	s	Chapter 8
050	wətku cnly		q-ə-qame-tı INT-E-eəl-RESI		ewər So	r-7enqew-ə-rkən FUT-not.want-E-PROG
	•	nn-ekw-ə-c?-ə MPAR-high-E-NM		lewt-ə-l head-E-Si	ly-ə-n NG-E-3sgAB	q-ə-ttet-ə-rkən IS INT-E-climb-E-PROG
	əmə and	akawkeytə uncomfortably	q-ə-jəjqe INT-E-sleep			<u>-a-tkan-a-k</u> TOP-E-LOC
	Only ea	at there, and	once you do	n't want	any more	e), climb up onto the very

highest peak and sleep there, even uncomfortably on top of the stones. [jo035]

Strategies for marking spatial relationships are discussed in §15—see in particular §15.3 'Spatial derivations'.

8.9 Speaker evaluation

Chukchi has one diminutive and two augmentative suffixes used with nominals. These suffixes also occur with words of other classes; e.g. adjectives (§16.3.2), similar forms also occur with verbs (§14.6.3).

8.9.1 Diminutive

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The diminutive suffix -qej-VH expresses the idea of smallness or fondness.

051	n-ine-temjun-qin HAB-INV-lie.to-3sg	ənqen DEM.3sgABS	<u>ninqej-qej</u> boy-DIM.3sgABS	
	She is lying to that	boy.		[ot018]

The diminutive is sometime used as a derivational suffix. For example, the noun aw-qay-te ('grunt'-DIM-3plABS from [cy426]) is sometimes used to refer familiarly to reindeer. The morpheme aw is an interjection which is a conventionalised imitation of the grunting sound that a reindeer makes; thus awqayte means something like *'little grunters'*.

8.9.2 Augmentatives

There are two nominal augmentative suffixes -jj and $-c\gamma$. These both express the notion of bigness. Speakers report that -jj expresses fondness and $-c\gamma$ expresses disdain, but this is not borne out by the use of these suffixes in texts (see 055, which uses both with two instances of the same referent).

The -cy augmentative has the following allomorphic alternation:

 $\{AUC\} \rightarrow \begin{cases} -con / VC_{-} \\ -c\gamma - elsewhere \end{cases}$

This shows that its underlying form is *-cn-.

052	n-iw-qin HAB-say-3sg	1	new?en wife.3sgABS	teŋ-ənjiw-in good-uncle-POSS.3sgABS	1	kəke INTJ	wəne! INTJ	1	
	<u>nawacqat-cən-ə-nl</u>								
	woman-AUG-E-	2sgAB!	S						
	The pood uncle's wife says "Liear of dearly What a waman!"								

ne good uncle's wife says, "Dear oh dearl' What a woman!"

Chapter 8 NOMINAL DERIVATION 155. In context, the augmentative in the preceding example should be taken as a positive evaluation, as should the -cy- forms in 053 and 055. 053 angota / ləyen=?m ŋan <u>ŋalwəl?-ə-cy-ə-t</u> n-ə-mk-ə-qinet=?m then really=EMPH DEICT herd-E-AUG-E-3pIABS HAB-E-many/S-3pl=EMPH nan ləyen=?m təcjaco ya-parol-lena-t towarne nutku DEICT really=EMPH thousand POS PRED-extra-3pl trade.herd here n-a-capoj-gen=?m HAB-E-slaughter-3sg=EMPH Then like that great herd increased, a thousand and more here were adaghtered. [he046] The -jn- augmentative doesn't have any allomorphic variation: U54 <u>c?acan-ə-in-ə-n</u> cold-E-AUG-E-3sgABS (During/there is) extreme cold. [ch17] 055 ənr?a nalwəl?.ə.in.ə.n=?m ləyen TRANSPORTA-ken [#] then herd-E-AUG-E-3sqABS=EMPH really transport-REL3soABS gaa-nalwal?-a-cy-a-n / n-a-twa-gen=?m [...] reindeer-herd-E-AUG-E-3sgABS HAB-E-be-3sg=EMPH Then there was a huge transport herd, a vast herd of reindeer. Ihe0631

Like diminutives, augmentatives also intermittently act as nominalisers. The noun w?etkojŋən *plɛgue* is derived from an iterative-marked intransitive verb stem (w?i *die* and -tku ITER); see example 023 in §14.4.5.

8.10 Quantitative derivations

Chukchi has three noun-specific collective suffixes and a number of quantitative prefixes which occur with nominals as well as with words of other classes.

8.10.1 Collective suffixes

There are three collective derivational suffixes. The suffix -mk- is the most common (see examples 056, 057, 059). It is unclear how this differs from the -tku collective suffix (example 058). The suffix - γ iniw (example 057) derives a collective noun indicating a human group (tribe, nation etc.). Examples 057-059 include the stem cawcaw(a-) with each of the collective suffixes.

056	qeluq≈?m because=EMP H	n-ə-mk-ə-qin ADJ-E-many-E-3sg	y e-iqut-lin PF-stand.up-3sg	<u>?att?-mk-a-jŋ-a-n</u> dog-COLL-E-AUG-E-3sgABS	
	Because lots	s of dogs had stoo	d up.		[ke252]

The -mk- suffix is clearly cognate with the adjective stem mk many.

[cy333]

156.		NOMINALS	Chapter 8
057 ənk?am ənd	ləγen ŋan really DEICT	cit taŋ-kolo ŋan first INTS-INTD DEIC	
ləyen=?: really=EMI	··· ·		ey-n-ə-mk-ə-qinet / TS-ADJ-E-many-3pl
n-ə-twa HAB-E-be-	•		
And wei number	l at first there we of reindeer people	re lots and lots of settlem 2.	ents, there lived a huge [he009]
58 ənqorə ihen	njan t?e-ce DEICT some-AD	,	ŋəra-ca four-ADV
yiwi-kin year-REL-L	OC probably	- infini in <u>cancer</u>	<u>za-tko-n</u> erder-COLL-3sgABS
yənu-1?-; remain-PCI	o-n Jtak- IL-E-3sgABS so-INT	ewən n-ə-mk-ə-qin S ADJ-E-many-3sg	ye-ynu-lin≃?m PF-remain-3sg=EMPH
Then aft few rema	er several years, i Mined.	our years or so, the reinc	deer folk remaining, quite a [he015]
he - tku colle ıffix (§14.4.5	ctive suffix is for).	mally identical to the it	erative/antipassive-iterative
59 aləmə apparently	cawcawa-mk-a- rich.herder-COLL-E-3		
Annaran	tly they were a rid	h herder family	(cy017)

The intensifier prefixes lyi- and teŋ-^{-vH} occur with words of most word classes (e.g. verbs §14.5.2, adjectives §16.3.3). They are most common with nominals derived from other word classes, or with pronouns. They very rarely occur with underived nouns.

060 ecyi cakett-a ətrec / <u>taŋ-əməl?o</u> maj-ə-tkən-etə no.sooner sister-ERG finish EMPH-all.3ABS store.place-E-TOP-ALL As soon as the sister had carried off absolutely everything onto the store place... [jo106]

The intensifier prefixes often occur together:

061	[]	qənur like	qora-t reindeer-3p1A	BS	cama and	ləyi-ter INTS-INT	g- tekicy-a-l?-a-qey-ti S-méal-E-NMZR-E-DIM-3pIABS	
	like	reindeer	r they've got	very			•	[kr158]
062	ənqor then	ə /	notqen DEM.3sgABS		l oclow- a-r		<u>ləye-taŋ-əməl?o</u> INTS-EMPH-all.3sgABS	
	qənut like	•	1 ?-ə-kin REL.3sgABS	-	aweti?a-n on-3sgABS	. /	[]	
	Then	that Rosl	ov resettled	abso	olutely all	the he	rding people	[hc055]
CT 1	•		_					

The prefix lyi- also derives nouns from nouns with the meaning 'authentic', 'feat', 'proper'; see §8.11.

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8.10.3 Approximative and restrictive prefixes

The restrictive prefix em-^{VH} occurs most frequently with nouns and adverbs. The approximative prefix mel-^{VH} occurs with nouns and adjectives (see also §16.3.3), and the related form mec-^{VH} occurs with nouns, verbs, and adverbs.

063	Enməl?-ə-l?-ə-n clill-E-NMZR-E-3sgABS	VSJO VREM all time	JA BOITSJA fighting	
	əcci Ciwt-ə-qe 3pIABS low-E-pot-NN		ci Enməl?-ə-17-ə-n ABS cliff-E-NMZR-E-3sgABS	1
		<u>macaw-ə-1?-ə-t</u> F-fight-E-PCPL-E-3pl	ABS	
	The "Cliff folk" ar They're really bad	e always afraid , always fightir	of them, the "Low Pots" g.	, those Cliff folk. [kr042]
064	[] / ənr?aq then	<u>mel-ŋelwəl</u> APPR-herd.3sgAB	qawrətkat-γ?e? IS rustle-TH	()
	that sounds like	it might be the	herd	[ke192]

See example 011 for an example of the rarer mec- from of the approximative prefix: mec-mejget-o-l?-o-t (APFR-become.big-E-PCPL-E-3plABS) the ones who had become rather big. The I-c alternation is common in derivation.

Several prefixes can occur together (this is also a rare example of these derivations on an underived noun):

065	ləyen=?m really=EMPH	lug-keli-tku-te NEG-write-ITER-Vbase	t-it-y?e-k 1sg-be-TH-1sg	<u>ten-em-nelwal?-a-k</u> EMPH-REST-herd-E-LOC	1			
	t-ə-miycire	t-γ²e·k						
	1sg-E-work-TH-1sg							
	But I didn	[he004]						

The em- restrictive prefix combines with instrumental case personal pronouns to $m_{\rm e}$ — madverb meaning *alone*; am-ənan *alone*, by him/herself, am-əryənan/aməccən — by themselves, am-yəmnan by myself, am-yənan by yourself etc. The form amənan can be used in place of any of the person/number specific forms (§7.6.3).

8.11 Miscellaneous lexical affixes

The prefix lyi- (see §8.10.2) has a special meaning with certain nouns, deriving a noun denoting the authentic, usual or traditional kind of the entity referred to. The obvious example is lay-?orawetl?a-n (AUTH-person-3sgABS), which is the native Chukchi ethnonym used for self reference. There are quite a few similar terms; lay-oon?-a-t berry species (considered specific to Chukotka: Russian shiksha), lay-?ewir-a-t traditional Chukchi clothing, lay?itt?aqej (<*lyi-?att?aqej) Chukchi sled dog. The form seems to be productive and there are examples of it used in spontaneous compounds; e.g. the word lay-?orawetl?a-tang-a-t AUTH-person-stranger-E-3plABS (from [ot049]) is used to specify Koryaks when the

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interpretation of the usual term tang-a-t (which can be used to mean *stranger*, *enemy* and *foreigner* as well as *Koryak*) is contextually unclear.

The suffix t'ul forms derivations from nouns with the meaning 'piece of [noun]'. This is particularly common for deriving names of animal-origin foodstuffs, e.g. qora-t'ol reindeer meat (<qora- reindeer), wopqa-t'ol moose meat (<wopqa-moose), etc. The suffix is also used productively, as shown in the textual example below:

066 utt-ə-t?ul-qej-e stick-E-PART-DIM-INST

With the little bit of stick.

[ot080]

Chapter 8

9 Complex nominals

Noun phrases, incorporation, compounding, conjunction

9.1 Introduction

Chukchi noun phrases (NPs) are restricted, with one possible exception (see below and §9.3), to appearing in the absolutive case. In non-absolutive cases modifiers are incorporated by their heads to form a single word. Thus, free modifiers of nominals only occur in the absolutive case. Nevertheless, even in the absolutive modifiers are often incorporated; incorporation in the absolutive is governed by pragmatic factors. Section §9.2 surveys the structural features of NPs. In §9.3 there is a discussion of the syntactic status of series of coreferent ergative case nominals in order to demonstrate that these are not syntactic phrases. The pragmatic motivation for the selection of incorporation versus phrasal modification is discussed in §9.4, along with a description of incorporation of modifiers by runabsolutive case heads. However, only discourse prominent nominals are likely to be modified, and the absolutive case is the case used for discourse prominent functions such as introducing new participants into the discourse, so in general modification by incorporation is rare in comparison to phrasal modification. Section §9.5 contains a description of conjunction in NPs. NP conjunction allows a number of non-coreferent nominals to inhabit the same syntactic slot, i.e. it allows several different referents to act as a single argument, as in the example below:

001 ya-jalyət-lenat <u>ənp-ə-ŋew-qey-ti</u> <u>ənpənacy-ə-qay-te</u> <u>əmə</u> PF-nomadise-3plS old-E-woman-DIM-3plABS old.man-E-DIM-3plABS too <u>ninqej-qej</u> boy-DIM.3sqABS

The old women, the old men and the little boy continued nomadising. [ot008]

Word order of absolutive noun phrases is structured so that more lexical elements are situated closer to the head than more grammatical elements (§9.2). Occasionally the noun phrase may even be interrupted by other syntactic elements (§19.3.2). The possibility of ergative case noun phrases is discussed in §9.3.

Occasionally speakers produce a series of coreferent nominals without any syntactic interdependencies. This is not conjunction, since the nominals are

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coreferent, and is not a syntactic phrase, since any of the nominals taken in isolation could act as the head of a clause and none of them are dependent on any of the others. There can be difficulties distinguishing noun phrases formed in this way from absolutive case zero-copula clauses (§17.2.4). Tipe following example shows an NP with two non-modifier noun heads (?oraweit?at anpanacyat the people, the old people) and a quantifier pronoun (qutti some) which could be either a modifier within an NP, or it could be another independent nominal:

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002	ŋan≕?m DEICT=EMPH	ya-r?ela-yt-ə-Jena t PF-race-go-E-3pl	<u>qut-ti</u> some-3pIABS	1
	<u>?orawetl?a-t</u> person-3pIABS	anpanacy-a-t old.man-E-3plABS		
	vven, some pe	sople went to a race,	old people.	

[ke001]

[ke215]

There are a few instances of ergative case nouns occurring in coreferent series which seem to inhabit the same syntactic slot; none of the elements can be shown to be heads or dependents of any of the others, so the criteria for phrasehood the inconclusive, e.g.:

003	ŋewəcqet girl.3sgABS	y-uŋet-lin PF-collect.firewood-3sg	1	/ anraq=?m then=EMPH		<u>?eqe-1?-e</u> bad-NMZR-ERG
	<u>req-e</u> something-ERG	ye-piri-lin PF-take-3sg	<u>tann</u> - strange		qənut like	
	waj-əŋqena-t DEICT-DEM-39ME The oirl was		IM7''}E	•		kidnone d (bete

someone, evil-doers, by strangers/enemies/Koryaks, like those with live in Vaegi.

The possibility of ergative case NPs is discussed in §9.3.

9.2 Noun phrases

6

A basic NP consists of a syntactic head and a number of dependents. Each part of a head and modifier NP refers to the same entity. The dependents of an NP head can be preposed (as in example 004), postposed (example 005), or both (examples 008, 009).

004		wəjan-nenat untie-3sgA.3piO	<u>ənqen</u> DEM.3sgABS	<u>ŋaw-ə-n-rayt-at-kena-t</u> woman-E-CS-house-go.to-TH-REL-3pIABS
	<u>qora-t</u> reindeer-3pl		lulyet-qinet ang.earrings-3pl	•
	There he	untied them, t	the marriage r	eindeers, they hung earrings on them. [ke259]
005	uina	komlile	••••	. ,

NS ujge <u>kemlilu-n</u><u>néwacqet-in</u>? NEG.EXI i.amlejka-3sgABS women-POSS.3sgABS Doesn't the woman have a kamlejka?

The heads of nouns phrases are usually nouns (or participles, which in Chukchi are a kind of noun). The modifier/s in the noun phrase can be

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COMPLEX NOMINALS

•FREE PRONOUNS (§9.2.1). Demonstrative, quantifier and indefinite/interrogative pronouns can be modifiers in NPs. Personal pronouns cannot, which probably follows from the special discourse conditions which obtain for their use (§7.2). Personal pronouns do occur in phrasal nominal constructions with confunction, but in these instances the personal pronoun is the head (determining agreement) and the noun is the modifier (§9.5.1)

NOUNS, including:

• PARTICIPLES (§9.2.2).

POSSESSIVE & RELATIONAL DERIVATIONS OF NOUNS (§9.2.2).
OBLIQUE CASE NOUNS (§9.2.3)

• ADJECTIVES (§9.2.4).

•NUMERALS (§9.2.5).

Non-inal modifiers within NPs can show number agreement throughout the NP. However, pronominal and possessive modifiers of a plural head frequently don't show agreement with plural. There doesn't seem to be any semantic conditioning, such as animacy or individuation. In example 006 the demonstrative and possessive modifiers don't agree in number with the noun head, while the participle lejwal?at who were walking does.

006 anr?aq angen <u>?eqe-njiw-in</u> ekke-t=?m DEM.3saABS bad.uncle-POSS.3sqABS and son-3pIABS=EMPH lejw-a-l?-a-t jet-y?e-t ecyi angen walk-E-PCPL-E-3pl come-TH-3pl no sooner DEM.3sqABS ?era-mpal-at-a-mo-y?a-t tace-bring.news-TH-E-INCH-TH-3pl Then those sons of the bad uncle came, they walked there, as soon as they heard about the race. [cv352]

Pronominal and possessive/relational modifiers do however always agree with the number of the underlying head when the head nominal is ellipsed from the NP, e.g.

007	<u>ləyi-telenjep-kinet</u>	ar?ala	le care	[]	
	INTS-long.ago-REL.3pIABS	quite	ne i j		
	[They're] from really	quite a lo	ng 🔐 👘	go	[kr122]

Many of the examples of nominal phrases in this chapter actually show combinations of different nominal elements. Example 008 shows a demonstrative and a possessive modifier with a single noun:

800 iyət-qej waj ləyen mən-jalyən-mək mən rayt-ə-mək now-DIM DEICT really 1pl.INT-move.camp-1pl 1pl.INT-go.home-E-1pl kaara-n notgen tury-in DEM.3sqABS nursery.sled-3sgABS 2pl-POSS.3sgABS mən-jaa-y?a-n=?m / [...] 1pl.INT-use-TH-3sg=EMPH We'll move camp right away, we'll go home. You use your nursery sled there.

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[cy413]

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9.2.1 Free pronoun modifiers

Free pronoun modifiers in NPs can be demonstratives (example 010), quantifiers (011) or indefinite/interrogatives (012).

DEMONSTRATIVE

010	qənwet finally	ko:l:o INTJ		pingej poy.3sqABS	<u>ənqen</u> DEM.3sq/	ABS		
	lejw-ə-l?e walk-E-DUR	et-ə-rkən I-E-PROG	taŋ-qo INTS-alv	•	ally			
	Finally,	ooh! but t	hat boy is	always w	andering			[ot026]
QUA	NTIFIER							
011	<u>anpanac</u> old.man-E-D	<u>x-ə-qaj</u> DIM.3sgABS	qətləyi however	g <u>ol</u> QUAN	IT.3sgABS	jara-k house-LOC	n-ə-twa-qe HAB-E-be-3sg	n
	There wa	as one old	man in th	e house h	owever.			[ot127]
IND	EFINITE/IN	TERROGA	TIVE:					
012		<u>enute-t</u> at-3pIABS	<u>ejwel-qej</u> orphan-DIM-		nute-k and-LOC	n-ena-pela HAB-TR-leave-		
	Oh, wha	t orphans	have you l	left in the	tundra?			[jo084]

Free personal pronouns do not act as modifiers in noun phrases, person marking of nouns is carried out by pronominal suffixes (§6.2).

9.2.2 Participle and possessive/relational modifiers

Absolutive noun modifiers in NPs include participles (013), and derivations of nouns and pronouns with the possessive and relational forms (014-018).

Participles with oblique dependents can form participle phrases within the NP:

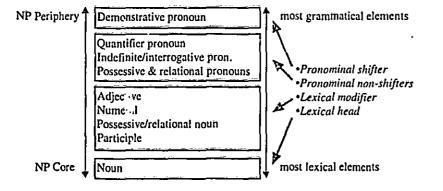
013 ten-anliw nelwəl?-ə-k wa<u>-l?-</u>ə-n iw-nin j?o-nen be-PCPL-E-3sgABS say-3sgA.3sgO heid-E-LOC INTS-uncle.3sgABS go.to-3sgA.3sgO anjiw-e "eejl kakomejl Cəkwaŋaqaj cik-in?-e" personal.name.3sgABS INTS-early-ADV uncle-ERG INTJ INŤJ He reached the good uncle who was at the herd, the uncle said "Oho! [cy041] Cakwayaqaj's early"

In the above example, the locative nominal <code>gelwəl?ək</code> at the herd is a complement of the copula wa-/-twa- be (located).

Example 014 has three coreferent NPs, each consisting of a possessive nominal modifier and a noun head (NP elements are underlined, and each NP is bracketed). In this example the NPs are interrupted by other sentence elements. Here it seems to be a rhetorical device used to contrast the preposed elements in each NP with each other, rather than the noun heads.

Constituents of a nominal phrase are ordered such that the most grammatical nominals are furthermost from the head and the most lexical are closesc. There is however no preferred left-to-right ordering; demonstratives are always at one extreme or another of a NP, with other pronominals next furthermost out, and adjectives, numerals and modifier nominals situated closest to the head. Thus, the linear ordering within the NP is related to a grammaticality cline whereby the most grammatical elements are furthermost from and least grammatical (most lexical) elements are closest to the lexical head. This is illustrated schematically in figure 9.1 (to avoid giving preference to left \rightarrow right or right \rightarrow left word order, the diagram is drawn with the NP core at the bottom and the periphery at the top). The rationale for demonstratives being considered more grammatical than other pronouns is that the selection of a demonstrative does not rely on any intrinsic properties of its referent, unlike the selection of other pronouns which, for a given referent, are not shifters. Any particular referent is intrinsically singular or plural, intrinsically animate or inanimate, etc. The selection of quantifier pronoun is determined by the number of the referent and selection of the indefinite/interrogative pronoun by its animacy. Possessive/relational pronouns are unique identifiers according to other semantic parameters (§8.7) such as possessor. source, material, use, which are also not shifters in the sense used here.

FIGURE 9.1 Relationship between word order and grammaticality in an NP. Linear order within NP Grammaticality cline



An NP can combine elements spreading both leftwards and rightwards. Example 009 shows a relational nominal preceding the noun and a possessive pronoun and demonstrative pronoun following it.

009	[]	tite-kin then-REL.3sgABS	pacwet yaw conversation	mury-in 1pl-POSS.3sgABS	ənqen DEM.3sgABS	[]
	th	at previous conv	ersation of ours	·	-	[ka3 4

The preferred order within these types is unclear, as noun phrases don't normally occur with more than one pon-shifter pronoun and one lexical modifier.

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14 [<u>elwe-l?-ine-t</u> other-NMZR-POSS-3pIABS	qejwe jəl-ə-k <u>qejuu-t</u>] [<u>ən-in</u> always give-E-INF calf-3pIABS 3sg-POSS.3sgABS	
ye-w?i-lin <u>qejuu</u>] PF-die-3sg calf.3sgABS	[<u>elwe-l?-in</u> jəl-ə-k <u>qejuu</u>] cther-NMZR-POSS.3sgABS give-E-INF calf.3sgABS	
ləyen ewər qərən really su NEG.Fl		
	alves [to a reindeer], her [own] calf died, you give tl away no! [she rejects it] [away no! [she rejects it]	he an017j
	w relational modifiers formed from a noun (yelwə) elwəl <i>herd</i>) and a temporal adverb (titekinet <i>ha</i> u n) respectively:	
15 [] ləye-taŋ-əməl?o iNTS-INTS-all.3sgABS		[]
like absolutely all th	he herding people [h	1e055 j
	<u>yt-a-1?-a-t</u> / io-E-PCPL-E-3pIABS	
r?ela-myəl-at-ə-l?-ə-t	man-?ejŋew-a-net	
race-tell.news-TH-E-PCPL-E-3		
race-tell.news-TH-E-PCPL-E-3	pIABS 1pl.INT-call-E-3pl pm the other time, the ones who he! item other race.	[cy348]
race-tell.news-TH-E-PCPL-E-3 We'll call the racers fro	pIABS 1pl.INT-call-E-3pl pm the other time, the ones who he! item other race.	cy348]
race-tell.news-TH-E-PCPL-E-3 We'll call the racers fro he following example are s 17 tang-ə-t n-iw-c stränger-E-3plABS HAB-say	pIABS 1pl.INT-call-E-3pl om the other time, the ones who helicities other race. (show the possessive derivations of personal pronou qinet "ok and gan <u>yomn-in</u>	cy348]
race-tell.news-TH-E-PCPL-E-3 We'll call the racers from the following example are s range-E-3plABS HAB-say <u>plak-a-ly-a-n</u> par shoe-E-SING-E-ABS rip-1	pIABS 1pl.INT-call-E-3pl om the other time, the ones who helicite other race. (a show the possessive derivations of personal pronou qinet "ok and gan <u>yomn-in</u> y-3pl INTJ so DEICT 1sg-POSS.3sgD rontet-y ⁹ i" TH	<i>cy348)</i> ıns.
race-tell.news-TH-E-PCPL-E-3 We'll call the racers from the following example are s ranger-E-3plABS HAB-say <u>plak-a-ly-a-n</u> par shoe-E-SING-E-ABS rip-1 The strangers say "Oh,	pIABS 1pl.INT-call-E-3pl om the other time, the ones who held is other race. (a show the possessive derivations of personal pronou- ginet "ok and gan <u>yomn-in</u> y-3pl INTJ so DEICT 1sg-POSS.3sgD rontet-y?i" TH , it seems my shoe's ripped"	cy348]
race-tell.news-TH-E-PCPL-E-3 We'll call the racers from the following example are s tang-a-t n-iw-c stranger-E-3plABS HAB-say <u>plak-a-ly-a-n</u> par shoe-E-SING-E-ABS rip-1 The strangers say "Oh, a naqam <u>an-ine-t</u> but 3sg-POSS-3plA	pIABS 1pl.INT-call-E-3pl point the other time, the ones who he!	<i>cy348)</i> ıns.
race-tell.news-TH-E-PCPL-E-3 We'll call the racers from the following example are s range-E-3plABS HAB-say <u>plak-a-ly-a-n</u> par shoe-E-SING-E-ABS rip-1 The strangers say "Oh, angam <u>an-ine-t</u> but 3sg-POSS-3plA angan qonpa	pIABS 1pl.INT-call-E-3pl point the other time, the ones who he!	<i>cy348)</i> ıns.
race-tell.news-TH-E-PCPL-E-3 We'll call the racers from the following example are s tranger-E-3plABS HAB-say <u>plak-a-ly-a-n</u> par shoe-E-SING-E-ABS rip-T The strangers say "Oh, 8 naqam <u>an-ine-t</u> but 3sg-POSS-3plA anqen qonpa DEM.3sgABS always joro-cako la	pIABS 1pl.INT-call-E-3pl point the other time, the ones who he!	<i>cy348]</i> 1ns.

5

The comitative and associative cases function as modifiers, but it is unclear whether they modify NPs or only entire predicates/clauses, as there are no formal criteria which could be used to show that they are nominal modifiers. They frequently occur in sentences without overt nominal subjects in the absolutive. In sentences with overt nouns the associative is much more common than the comitative.

3pl peopl n n-?eqe-tey IPH HAB-IMPOSS	EMPH furth wetl?a-t e-3pl gjeg-qinet Gdesire-3pl didn't wan fot join the		ləγen really ere taken	<u>ya-ŋalıvəl?-ə-ma</u> ASS-herd-E-ASS with their herds, [he021-022
•	ves			
•	rc3			
		an absolutiv	ve ກດເມດ ກ	hrase
say-NEG u <u>nəlyi-n-ə-ten-c</u> INTS-ADJ-E-gocd-	3pl won	wajanre yonder <u>vacqet-ti</u> nan-3pLABS <i>to the moo</i>	j²ely-etə moon-ALL wa-rka be-PROC n, there a	(NT-E-seLoff-TH
e instances in	n which ar	1 adjective	e is used	inal it is regularly as a nominal, i.e ver case marked, and
on as absolutive h suggests that		-	-	ective NP heads with ellipsis.
fier numera	ls			
ers of nominals ; otherwise the	. Nominals numerals a bsolutive n	are only m ire incorpoi oun phrase	odified by rated. Cor es, with (narkings, but they do / free numerals in the npare 021-022, which 023, which shows ar
nnen <u>anneer</u>		rkən=?m	ratan	
h if you catch oi				(jo069
	•	/ []		
<u>t?er</u> yal				[ka07]
		S so.many pass-TH=EMPH	· · ·	S so.many pass-TH=EMPH

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023	anə so ən-in 3sg-PO	janot first SS.3sgABS			?at-ə-l?at-qenat duel-E-DUR-3pl qeluq=?m because=EMPH	1	naqam but	
	n-ə-p	pəlu-qine smail-3-DIM.	-qej	pojy-ə-qaj spear-E-DIM.3				
	Well I becau	first they ise of his i	simply i little tin	fought with s y spear.	spears, however	(he u	used] his with o	ne hand, lot1081

In isolated instances a numeral can act as an argument of a verb, although it is not clear that such numerals are really NP heads as to say that they were would be to hypothesise a subclass of nominals which could not mark case (compare the 'argument-like' adverbs discussed in §7.6). Example 024 shows a numeral which is $cn \ \Omega$ argument of the verb (note number agreement), but which also strongly implies an ellipsed nominal head lamgalte *stories* (understood from context):

024	ii yes ujne NEG.EXI	ətr?ec-teyən all-limit atr?ec all	<u>jəroq</u> =°m three=EMPH	waj DEICT	t-ə-tw-ə-nat 1sgA-E-E-3p¦O	1	-
	Yes, the	at's the end, I'v	e told three [s	tories], r	io more, that's a	a <i>l1</i> .	

[ka29]

9.3 Ergative nominal phrases

Texts contain rare instances of series of coreferent ergative nouns; this is illustrated in example 025, which has several arguments in the ergative case representing the same set of people:

025	lə yen really	ewət so		-āw-ə-myö-qen pojy-ott-ā do.something-TH-E-INCH-3sg spear-wood-INST				
	n-ine-n-req-ew-qin HAB-TR-CAUS-do.something-TH-3sg			<u>?eqe-1?-e</u> bad-NMZR-ERG	1	<u>req-e</u> something-ERG	<u>tang-a</u> stranger-ERG	1
	[nine]		-ponge-gen -block-3sg	роју-ott-ә-ot spear-wood-E-RE	DUP.	5 5 5		
	n-ə-mle-qin pojy-ə-n HAB-E-break-3sg spear-E-ABS					-		

But whenever he started to do anything to him with the spear, the enemy was doing anything, the stranger whatever, he blocked the spearshaft, the spear broke. [ot109]

The ergative case arguments are all in the same syntactic relationship to the verb. However, unlike absolutive case NPs they do not have any demonstrable syntactic relationship to each other (for example, they can't be shown to be heads and, modifiers). The pauses and false starts in 025 suggest that the speaker here is searching for the correct words, which in turn suggests that this series of ergative case nouns is simply an instance of repitition of different terms for a refernt while the speaker is gathering her thoughts.

Example 026 shows a highly unusual example of an ergative demonstrative and an ergative noun which do seem to be in a modifier-head relationship:

Cha	pter 9		COMPLEX NON	IINAL	.s 167
026	<u>anqena-cək</u> DEM-AN ERG.3pl	<u>remk-e</u> folk-ERG	ye-piri-lin PF-take-3sg	1	uget-1²-ə-n collect.wood-NMZR-E-ABS.3sqABS
	ya-n-rayt-at-lei				5 • • •
	PF-CAUS-go.home-1	[H-3sg			
	Those folk for t	hose ones, t	he folk] kidna	ррес	the firewood-collector and took
	her home.				[ot006

The lack of number agreement between the two words is probably not significant; the selection of high animate plural inflection for demonstrative referring to a person is normal, but the noun remk- *folk* cannot be marked for number outside the absolutive (§6.2).

The question as to whether ergative NPs exist meet be considered unresolved, but if ergative nominals do form syntactic phrases then these phrases differ markedly from absolutive case noun phrases.

9.4 Nominal incorporation

The syntactic distribution of the noun phrase in Chukchi is limited to contexts where it occurs in the absolutive case (§9.2). To get a semantically complex nominal argument in a non-absolutive context at is either (i) introduced by a noun phrase in the absolutive case and then referred to by a pronoun or single word, or (ii) made into a single word by syntactic incorporation. Absolutive nominals can also incorporate their modifiers; the motivation for selecting a modifier phrase or incorporation of the modifier is determined pragnatically.

The following two examples illustrate the pragmatic difference between phrasal modification (027) and incorporation (028):

027	əmə and	<u>nangen</u> DEM.3sgABS	<u>kətep-en</u> wolverine-P(<u>ely-a-t</u> de-E-3pIABS	je! Intj		
	INTS AD	-mər <mark>ku-qine</mark> I-E-light-3pl at wolverine	you.se	e	u liabt			1-15 251
028	ləγen really	kəjaw-ə-m wake.up-E-IN	iyo-y?a-t	ətl?a-t parent-3pIABS	raytə-y		1	[ah5.35]
	<u>?iy-ə-ne</u> wolf-E-hid		jən-nen take.off-3sgA.3		/-atc?at-y? go.to.bed-TH	e		
		he parents v cretly went		g to wake up	o he went l	home,	took off the	wolf [ot057]

Example 027 is from a story about wolverine skins, and the NP with all its modifiers is centrally important to the discourse (i.e. it is FOCUSSED; see §19.1.1). In contrast, in 028 the noun *?iyanelyan the wolf skin* is a background detail to a story about a person; the fact that the skin comes from a wolf is important to specify since otherwise it might be understood that the protagonist took off his own skin. The subsequent discourse is not concerned with the skin.

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the activities of the l	modifier is also incorporated. As in 628 th boy and the wolf skin is a peripheral deta for incorporation here: since the noun is	il. However there is a		030 shows a non-absolutive adjective-noun s adjective+noun pairs always involve inco	•
incorporation of the 1 029 ra-yt-ə-y?a-t house-go.to-E-TH-3p	modifier is structually obligatory. / ?ətt?əjol pəkir-y?i qeluq=?m I fırst.ADV aırive-TH because≃EM	1	031 n-ə-lүi-үpi-l?et- HAB-E-INTS-co.hou: That (magical)		[cy265]
<u>?iy-ə-nely-ə-cək</u> wolf-E-skin-E-INESS <i>They went hom</i>		he wolf skin. [ot141]	032 <u>majn-ə-maraw</u> big-E-fight.3sgABS <i>The (Second W</i>	n-ə-le-qin HAB-E-go-3sgS /orid] war was going on.	[he024]
Incorporations invo	lving three or more lexical stems ar	e unusual, and are		ples show free adjectives in predicative function	

sometimes considered to be funny (see also §12.5.1). When a French nurse from the organisation *Médecins au Monde* arrived in Anadyr' the brother-in-law of one of my consultants remarked that this was <u>another</u> kawrajelyəmelyətanŋən¹ 'twisted-tongue match stranger', i.e. a European outsider who speaks a language other than Russian. This term was spontaneously formed and people were yery amused by it, passing it back and forth around the village for several days.

9.4.1 Adjective, pronoun and numeral modifiers

Apart from attributive adjectives, Chukchi can also incorporate other NP elements such as demonstratives and pronominal possessors. These seem like syntactic phenomena, which is a typologically very unexpected².

Any nominal with modifiers which is to act as a non-absolutive argument must use incorporation. Example 030 shows an adjective modifying a noun in the comitative case (see also examples 036-037 below, which show incorporated possessors).

030	[]	<u>ya-ppəlo-ra-ta</u>	n?el-y?i	remk-ə-n	tan-əməl?-etə=?ı	m
		COM-little-house-COM	become-TH	folk-E-ABS.3sgABS	INTS-all-ADV=EMPH	
	the	e people in their enti	irety came to	o be in little house	<i>S.</i>	[he055]

Adjectives in attributive function are almost always incorporated. Compare 031-032 (adjectives in attributive function) with 033-034 (adjectives in predicative

² As Spencer observes,

[...] Chukchi nouns regularly incorporate their modifiers, which could only be analysed as an illicit kind of lowering given normal assumptions about the structure of nominal phrases. [Spencer 1995:475]

Illicit or not, the behaviour of incorporating nominals seems to follow naturally form the privileged status of the absolutive case. Absolutive nominals have high discourse salience, with the concomitant assumption of greater specificity, etc. The tendency for verbs to incorporate low discourse salience Os (§12.2) is part of the same general phenomenon that non-specific, non-differentiated elements are referred to using a single word.

033 mecic?u <u>n-ə-ciit-qin</u> uwi-kuk n-ena-yto-gen sometimes ADJ-E-warm-3sgS cook-pot.3sgABS HAB-TR-pull.out-3sqS Sometimes even the pot was still warm when he got it out. [jo021] 034 pojy-ott-ə-ly-ə-qaj ləyen n-a-ciwm-a-gine-gej spear-wood-E-END-E-DIM.3sgABS really ADJ-E-short-E-3sg-DIM The spearshaft was really short. [ot037] Note that in examples 031 and 032 the incorporated adjectival modifiers make up entities which are similar to lexical compounds according to the nameworthyness test. It is impossible to (for instance) put emphatic stress on an incorporated adjective (unlike English: "It was a green car, not a red one").

Other elements of a notional noun phrase can also be incorporated. In the following example a quantifier qun- one is incorporated in the word qonqoral?eyət you have one reindeer (or perhaps better: you with one reindeer).

035	newəcqet-e woman-ERG	n-iw-ə-n INV-say-E-30		koj! J	waj DEICT	menine-qej who-DIM.3sgABS	waj DEICT
	q-ə-caj-o-rkə INT-E-tea-COMS meŋqo?"		kəke INTJ	wəne INTJ-DI		gon-gora-1?-eyət one-reindeer-NMZR-2:	-
	whence				_		

The women said to him: Who's this? Drink some tea! Well well, you've got one reindeer... Where have you come from? [cy104]

The fact the man has one reindeer is noteworthy as a normal Chukch! reindeer sled is drawn by two. In this example the incorporation *one* + *reindeer* makes an *ad hoc* nickname, which in Chukchi would never be expressed by two words (all names are unitary; see §1.1.4).

In the following two examples personal pronouns are incorporated. In example 036 a first person singular pronoun in incorporated the noun nute- *land*, and the resultant stem occurs in the relational derivation to show place of origin³.

¹ This compound kawra-jely-ə-mely-ə-tang-ə-n is glossed twist-tongue-E-fire-E-stranger-E-ABS.

³ Note that possessive and relational forms cannot be combined recursively; gymn-in nute-kin jokwa-qaj (lsg-POSS.3sgABS land-REL.3sgABS duck-DIM.3sgABS) would

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036	e Intj	waj DEICT	yənाऽपु∹tute-kin 1sg-land-REL,3sgABS	jokwa-qaj eider.duck-DIM.3sqABS	etaana probably	
	Oh,	it's prob	••••	uck from my [home]la	and.	[ot132]
Eur		037 -4-		and a compatibuli		choolutius

Example 037 shows another instance of a semantically complex non-absolutive element formed by incorporation rather than by phrasal syntactic means.

037 wone wanewan wanewan n-ə-ponne-?a-n INTJ NEG.NFUT NEG.NFUT INT-E-take.short.cut-TH-3sqS ləyen mət-kawra-mək anay-r?et-jekwe ŋan nemagei ŋan DEICT also 3sg-road-PERL 1pl-go.in.circle-1pl DEICT really Oh no, he didn't turn around halfway; we too did the circle following his tracks. [cy149]

An example of an incorporated numeral is annan-many-a with one hand onehand-INST (example 023).

9.4.2 Noun modifiers

Nouns can be incorporated as modifiers, further identifying what kind of thing the head noun is. Often they express material (see 038) or place of origin (see 039).

038	ənr?aq	<u>?iy-nely-ə-n</u>	jənre:1	1	ŋanqen	ŋan	ekwet-y?i	
	then	wolf-hide-E-3sgABS	don-3sgA.3sgO		yonder	DEICT	set.off-TH	
	Now he	put on the wolf hi	2		[ot047	7]		

In pragmatically different circumstances the incorporated noun *?iynelyən wolf* hide could be split into a phrasal nominal *?iy-in nely-ə-n* wolf-POSS.3sgABS hide-E-3sgABS (see example 027).

Here are some other complex nouns with a noun modifier indicating a material (case endings given here are arbitrary; taken from texts):

maka-jər?-o nappy-contents-EQU Nappy padding/stuffing [ch09] manek-wət::cy- ə-qaj-a cloth-kamlejka-f_-DIM-ERG Dress made of fabric (instead of fur) [cy223] ott-ə-pojy-ə-qaj wood-E-spear-E-DIM Wooden spear [ot036]

Example 039 is one of very few in which a proper noun (here, a place name) is incorporated. There are no examples of an incorporated personal names attested in the corpus.

mean my duck from the land, not the duck from my land, i.e. a relational form cannot be the head of a possessive form.

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039 ənqena-t raj Wareen-tann-ə-naw-ə-t ləyen ten-?etki-jn-ə-t this-3plABS DEICT Vaegi-stranger-E-woman-E-3plABS really INTS-bad-AUG-E-3plABS Those stranger women from Vaegi are very, very bad. [ot050]

In the following example the incorporated noun stem lay?orawetl?a- Chukchi (lit. ordinary kind of person) show that the tany-a-t strangers, enemies are the traditional strangers/enemies, i.e. Koryaks from the neighbouring tribe, rather than the new ones, the Russians.

040 ləy-?orawetl?a-tanŋ-ə-t qərəmena-t əruci-l?-ə-t AUTH-person-stranger-E-3pIABS NEG.ID-3pIABS Russian-NMZR-E-3pIABS [They were] ordinary stranger people [i.e. Koryaks], not Russians. [ot049]

My data does not contain any spontaneous examples of incorporation of more than one modifier (but see the discussion of 'tongue-twisters'; §2.5.1)

9.4.3 Verb and adverb modifiers

Verb modifiers indicate the activity (e.g. *helping* see 041) or state (e.g. *die* see 042) which make the compound nameworthy.

041	macənan enough	ərikə there	qel?uq because	newacqet woman.3sgABS	1	waj DEICT	<u>winret-tur</u> help-friend-E-3	
	Let it be, fa	or the wor	nàn, she's o	ur helper.				[cy295]
042	-	·a-mk-ə-jŋ se-COLL-E-A	-ə-n UG-E-3sgABS	kel?-in spirit-POSS.3sgAl	BS			
	əriqeri this.3sgABS	<u>w?i-remi</u> die-folk-PO						
	There was	a big gro:	:)f spirit	houses, belongin	ng ti	o the di	ead folk	[cy410]

Nominals compounds can also be made with adverbs. Here the adverbials ?att?ajol first and jaal last form compounds with -ra-l?- house-NMZR person with a house. a householder.

043 [...] [?]eqe-njiw <u>?att?ajot-ra-l?-ə-n</u> ŋutku bad-uncle.3sgABS first-house-NMZR-E-3sgABS here <u>jaat-ra-l?-o</u> teŋ-ənjiw last-house-NMZR-EQU good-uncle.3sgABS ... the bad uncle was the first-householder, here the last-householder was the good uncle. [cy309]

9.5 Conjunction

The various strategies for nominal conjunction are used when an argument consists of two or more non-coreferent elements. This contrasts to the other types of noun phrase, which all consist of a head and modifiers. Nominal conjunction only occurs with nominals in the absolutive case.

Nominal conjunction can be achieved in two ways: the ASSOCIATIVE CONJUNCTION CONSTRUCTION (§9.5.1), or by use of a conjunctive particle (§9.5.2). Conjoined elements in a noun phrase rarely have equal status; it is normal for one element to

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include the other—in such instances the associative conjunction construction is used. Otherwise, with equally ranked nominal elements, a conjunctive particle is used.

9.5.1 Associative conjunction

The most common type of conjunction of nominals is the associative conjunction construction. This construction is formed by a plural head nominal with collective meaning (the superordinate). accompanied by another nominal or nominals referring to an individual or individuals included in the collective (compare the use of the associative case with nouns in a part whole relationship: $\S6.5$ 2). The head nominal is usually a plural personal pronoun (as in 044 and 045) or a noun (which should be a hypernym of the conjoined noun, as in 046). When the nominals to be conjoined cannot be construed in these ways (i.e. when they are all nouns which are not in a superordinate-subordinate relationship) conjunctive particles are used instead (see §9.5.2 and also discussion of example 049).

Verbal agreement is always determined by the superordinate term, even though both nominals are in the absolutive case (see 044, 046).

044		u <u>i-qaj</u> DIM.3sgABS	jara-17-0 house-NMZR-EQU	q-it-y-ə-tək INT-be-TH-E-2pl	
	You and aun	ty [lit. "you	(PL.) including	auntie"] remain at home.	[cy062]
045	but ónly		J -		
	And It was Ju	ist him and	the bitch		[ke147]
046	enmen once.upon.a.time	/ ?eqe- bad-NN	1 ?-e [] MŽR-ERG	ya-nm-ə-lenat PF-kill-E-3plÓ	
	<u>ətləy-ə-t</u> parent-E-3pIABS	<u>ammema</u> molher.3sgA	BS		
÷	Once upon a l	time, evil-de	oers killed the f	ather and mother	(jo001)

The corpus has a few instances of a similar construction formed with the 3rd plural personal pronoun atri and <u>two</u> nouns (see 047-049). The pronoun here doesn't seem to add any more information about the composition of the noun phrase than that indicated by the nouns (contrast this to 044 turi atcajqaj you and aunty; the pronoun in this example indicates that the NP contains another person).

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047	ii ləye-taŋ-qonpə ye-tumyew-linet yes INTS-INTS-ahways PF-befriend-3pl		
	<u>atri jokwajo ?i-na</u> 3pl.ABS eider.duck.3sgABS wolf-3sgABS		
	Yes, and the wolf and the duck befriended each other forever.	[jo124]	
048	<u>ətri new-?ətt?-ə-qej newəcqet</u> ənqə 3pl.ABS woman-dog-E-DiM3sgABS woman.3sgABS there	0 /	
	n-ə-twa-qenat / jara-k HAB-E-be-3pIS home-LOC		
	They were the dog and the woman there, at home.	[ke255]	
049	ənk ^ə am ee <u>nalv-ə-ŋojŋ-ə-c^əom-ə-tkən ətri</u> / and INTJ hide-E-tail-E-end-E-SURFACE.ABS 3pl.ABS		
	way-c?om-a-tkan-te/poc?a-kojg-a-cakogalyalclaw-end-E-SURFACE-3plABSsleeve-cup-E-INSIDEboth sides		
	q-ə-jo-y-ə-nat INT-E-put-TH-E-3plO		
	And then, ah, put the end of my tail and the ends of my claws in the oboth sleeves.	ends of [jo039]	

In these examples neither noun is a superordinate of the other; the motivation for using this construction rather than conjuctive particles or a comitative case adjunct (§6.5.3) is unclear.

9.5.2 Conjunctive particles

There are two conjunctive particles which typically occur with nominals; ank?am and ama (there is also discussion below of an unusual instance of nominal conjunction with cama; example 052). These conjunctive particle also join verbs and clauses, and introduce intonational phrases (see §5.5.2).

The form ank?am is semantically the most neutral of the conjunctive particles.

050	?amən INTJ	<u>əntuulpər=?m</u> brother.in.law=EMPH	<u>ənk?</u> and	<u>am ənnen</u> one	<u>?oratceg-gai</u> youth-DIM.3sgABS	
	r'ə-γnu-v CS-stay.bel		ewət _. likewise	cakəyet sister.3sgABS		
	Well he	left the brother-ii	n-law ar	nd one youth,	likewise the sister.	[ot] 14]

Note that the noun cakevet in this example is an afterthought, not a syntactic argument of any verb.

The particle əmə *also* is a conjunctive particle used with lists of three or more nominals. It generally occurs before the last element of the list. In example 051 the last noun in the list is an afterthought (repetition in Russian to explain kaaran). See 001 for a further example.

⁴ The word atlayat can mean *parents* or *fathers* (the singular atlayan only means *father*). In conjunction with the singular ammama *mother* the phrase atlayat ammema means father and mother, literally 'parents incl. mother'. In general the plurals of terms indicating men include women (§6.3.4).

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051	iee excel ⁱ ent	qonay- trouser-3		ləyen really	əməl?o all.3sgABS	<u>plek-a-</u> shoe-E-3p	-	1		
	<u>ir?-ə-t</u> kuxlanka-E-	-3plABS		<u>wir?-ə-t</u> :lothing-E-3p	/ IABS	<u>jara-ŋə=</u> house-3sgA		EMPH	<u>ama</u> and	
	<u>kaara-n</u> nursery.slee			<u>TA-qaj</u> DIM.3sgABS	ənkə there	ləyen really	also	nəqej	1	yelwəl herd.3sgABS
	really	mec-yər APPR-hah	ve-VBase	e 3pl-cu	wi-y?e-ti I-TH-3cg	ənqen this.3sgAE			-set.off-	?e-t ∙TH-3pIABS
	Fine trousers, everything, shoes, kuxlanka-traditional costum a nursery sled, a little sled, that was there too, the herd was o and the caravan set off.							ne, a i	arana. and	

The form cama is usually used to conjoin concurrent clauses (§5.5.2), but it is also occasionally used as a conjunction within a nominal phrase. It may be no coincidence that the only textual examples have the conjunction with derived nouns cortaining verb stems, and which retain meanings clevely related to action, as in the following:

AE2 11

032	11 yes	angen this.3sgABS	<u>mury-in</u> 1pl-POSS.3s	igABS	<u>yəpi-l?-ə-n</u> keep.house·PCPL·E·3s_ABS	<u>cama</u> and	1
		<u>ret-tumy-a-n</u> riend-E-3sgABS	ləyen really		ə-req-ə-k -E-do.something-E-INF		
	Yes,	this is our he	ousekeeper	and	our helper in everything		[cy334]

10 Inflecting verbs

10.1 Introduction

Underived verb stems form INFLECTING VERBS (this chapter), and a number of nonfinite forms including the INFINITIVE, CONVERBS, and VERB BASES (§13). The morphology available to inflecting verbs may indicate any or all of the categories tense, aspect, and mood, and may also show the person and number of one or two arguments. The morphological marking of inflecting verbs is subdivided into two distinct structural types, the ACTIVE and the STATIVE verbal paradigms. Choice of inflection type is dependent upon the semantics of the expression, not on the semantics of the particular verbal stem, and all stems can be inflected according to both inflection type patterns. Stative verbal inflections are morphologically identical to predicate adjective and nominal forms (§16.4, §17.4), whereas active verbal inflections do not have obvious synchronic links to non-verbal morphology (although internal and comparative reconstruction does reveal that all pronouns and pronominal affixes have cognate elements; see for example Skorik 1977, Comrie 1980). It is sufficient here to point out that the different processes of grammaticalisation that produced the stative and active types of verbal inflection have consequences for the synchronic distributional properties of morphological markers. The stative verbal paradigms are closely related to non-verbal predicate forms, and share some grammatical features with them; in particular, the stative verb paradigms do not allow an overt cross-reference to more than one argument, and are limited to only two (fused) tense-aspect-mood types. The eight active verb paradigms are much more analytic, and encode two tenses, three moods, and two aspects, and can cross-reference two different arguments.

Analytic verbs are a subtype of inflecting verbs formed by an invariant verb base (\$13.5) and a copula verb auxiliary, which takes the regular markings of an inflected verb (verbal bases also occasionally appear as clause heads when the auxiliary is ellipsed). Thus analytic verbs form a transitional class between inflecting verbs and converbs.

The morphological structure of inflecting verbs is such that not all possible morphological categories are overtly marked all the time. Meaning is constructed

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paradigmatically, and the absence of marking for a particular category may be as significant as its presence. In particular, 'zero-markers' occur in the active paradigms for 3rd person singular and for certain combinations of A/O v⁻ th inverse markers. In the stative paradigms a single form can stand for between one and six person-number combinations of A and O. For example, the habitual n-ine-___-turi indicates 2pIA and one of 1sgO/3sgO/3plO, whereas the perfect y-ine-___-turi uniquely indicates 2pIA and 1sgO.

The following table shows the tense-aspect-mood combinations of an intransitive verb inflected according to all the active and the stative structural types.

FIGURE 10.1. Basic inflectional possibilities (intransitive, 3sgS).

jet- <i>vi</i>	'come',	with	approxi	imate t	ranslati	ions

	stative		active					
perfect	yeetlin 'she has come'	neutral aspect	<i>non-fut.</i> jety?i 'she came'	future rejety?e 'she will come'	<i>intentional</i> nəjetγ²en 'let her come'	conditional n²ajety?en 'she might come'		
habituai	nəjetqin 'she comes'	prog. aspect	jetərkən 'she is coming'	rejetərkən 'she will be coming'	i:ajetarkan 'let her be coming'	n²əjetərkən 'she might be coming'		

Arguments are cross-referenced for number, which may be singular/unmarked or plural, and person, which may be first, second or third. These are the same person/number categories as those marked by personal pronouns. Verbs which cross-reference two arguments do not allow A and O to be both first person or both second person (i.e. there are not reflexives; see §11.7.2).

Apart from the typologically very usual fact that inflectional morphology in Chukchi occurs outside derivational morphology (see for example Anderson 1992:126), Chukchi also shows a qualitative difference between inflectional and derivational types of verbal morphology. Inflectional morphology is irregular; inflectional markers can only be interpreted according to their paradigmatic relationships with other members of the inflectional paradigm. Inflectional morphology is also accompanied by thematic consonants in certain paradigm positions (i.e. particular combinations of person-number and tense-aspect-mood marking; see $\S10.2.7$). The presence or absence of inflectional affixes determines the value of the person-number and tense-aspect-mood categories of a verb. Some personal-number combinations have no markers which can be glossed as representing person or number categories, e.g. ine-l?u-y?i (INV-see-TH) you (sg.) or he/she saw me (see $\S10.2.2$). Derivational morphology, in contrast, is entirely predictable. A grammatical category marked by derivational morphology is present if the morpheme is present, absent if the morpheme is absent (§14).

10.2 Active inflections

There are eight active inflectional paradigms: non-future (or 'aorist'), future, intentional, and conditional, each with progressive and neutral aspectual variants. They are presented as paradigms because there is no simple or consistent set of structural rules which may generate them without the need to list a range of arbitrary exceptions, thematic suffixes. For reference, the entire intransitive and transitive active paradigms are presented below and in the following pages. Any variation in how particular verb stems are conjugated according to these paradigms is entirely governed by phonological principies; there are no conjugation classes. Sections §§10.2.1-2 explain the formation of these paradigms.

FIGURE 10.2. Intransitive neutral aspect paradigms.

;	non-future	future	intentional	conditional
1sgS	t-\$-(y ⁷ e)-k	t-re-\$-(y ⁷ e)	m·\$·(γ²e)·k	m ⁷ -\$-(γ ² e)-k
1 plS	mət-\$-mək	mat-re-\$-(y?e)	mən-S-mək	mən²-\$-mək
2sgS	\$-(y?)-i	re-\$-(y?e)	q- \$-y-i	n²-\$-y-i
2plS	\$-tək	re-S-n-tək	q-\$-tək	n²-\$-tək
3sgS	\$-(y?)-i	re-\$-(y?e)	n-\$-(y?e)-n	л?-\$.(ү?е)-п
3plS	\$-(y ⁷ e)-t	re-\$-ŋ-ə-t	n-S-net	n?-\$-net

The symbol **\$** represents the verbal stem. Bracketed forms are optional, and usually only occur with monosyllabic verb stems. The suffixes $-\gamma^{2}/\gamma^{2}$ and -i are thematic, and are discussed in §10.2.7. Verbal inflections are all -VH.

FIGURE 10.3. Intransitive progressive aspect paradigms

	non-future	future	intentional	conditional
IsgS	t-S-rkan	t-re-\$-rkən	m-S-rkən	m ⁷ -\$-rkən
IplS	mət-\$-rkən	mət-re-\$-rkən	mən- S-rkən	mən²- \$-rkən
2sgS	\$-rkan	re-\$-rkən	q-\$-rkən	n²-\$-rkən
2ptS	\$-rkəni-tək	re-\$-rkəni-tək	q-S-rkəni-tək	n²-\$-rkəni-tək
3sgS	\$-rkən	re-\$-rkan	n-\$-ikən	n²-\$-rkən
3plS	\$-rkət	re-\$-rkəne-ŋ-ə-t	n-S-rkəne-t	n ⁷ -\$-rkəne-t

Transitive verbs have the same number of inflectional paradigms as intransitive, although each of these contains a much greater number of forms than the six-member intransitive paradigms listed above.

FIGURE 10.4. Transitive non-future neutral (aorist).

	IsgO	1 plO	2sgO	2plO	3sgO	3plO
1sgA	· ·		t-\$-yət	t-\$-tək	t-\$-(γ ⁷ e)-n	t-\$-net
1plA	·	•	mət-\$-yət	mət-\$-tək	mət-\$-(y?e)-n	mət-\$-net
2sgA	ine-\$-(y?)-i	\$-tku-y?-i		•	\$-(y ⁷ e)-n	\$-net
2plA	ine-\$-tək	\$-tku-tək	-	<u> </u>	\$-tk	(ə
3sgA	ine-\$-(y?)-i	ne-\$-mək	ne-\$-yət	ne-\$-tək	\$-nin	\$-ninet
3plA	ne-\$-yəm				ne-\$-(y?e)-n	ne-\$-net

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FIGURE 10.5. Transitive non-future progressive.

	1sg0	<u>IplO</u>	2sgO	2plO	3sgO	3pIC
1sgA	•		t-S-rkəni-yət	t-S-rkəni-tək	t-S-rkən	t-S-rkə-net
1 plA		~	mət-S-rkəni-yət	mət-\$-rkəni-tək	mət-\$-rkən	mət-\$-rkə-net
2sgA	ine-\$-rkən	<u>\$-tku-rkən</u>	•		\$-rkən	\$-rkə-net
2plA	ine-S-rkəni-tək	S-tku-rkəni-tək		• ·	\$-r	kəni-tkə
	ine-\$-rkən	ne-\$-rkəni-mək	ne-\$-rkəni-yət	ne-\$-rkəni-tək	\$-rkə-nin	\$-rkə-ninet
3plA	<u>ne-S-rkəni-yəm</u>				ne-\$-rkə-n	ne-\$-rkə-net

FIGURE 10.6. Transitive future neutral.

	1sgO	1plO	_2sgO	_2plO	3sgO	3plO
lsgA	-	-	t-re-\$-yət	t-re-S-tək	t-re-\$-ŋ-ə-n	t-re-\$-ŋ-ə-net
1 piA	-		mət-re-\$-yət	mət-re-\$-tək	mət-re-\$-ŋ-ə-n	mət-re-\$-ŋ-ə-net
	r-ine-\$-y?e	re-\$-tku-y?e	_	-	ге-\$-ŋ-ә-n	re-\$-n-ə-net
2plA	r-ine-\$-n-tək	re-\$-tku-n-tək	- <u>-</u>		re	\$-ŋ-ə-tkə
3sgA	r-ine-\$-y?e	ne-re-\$-mək	ne-re-\$-yət	ne-re-\$-tək	re-\$-y-nin	re-\$-y-ninet
3plA	ne-re-\$-yəm				ne-re-\$-ŋ-ə-n	ne-re-\$-ŋ-ə-net

FIGURE 10.7. Transitive future progressive.

	lsgO	_1plO	2sgO	2plO	3sgO	3m/O
1sgA		•	t-re-S-rkəni-yət	t-re-\$-rkəni-tək	t-re-\$-rkən	t-re-\$-rkə-net
1p!A		-	mat-re-\$-rkani-yat	mət-re-S-rkəni-tək	mət-re-\$-rkən	mət-re-\$-rkə-net
	r-ine-S-rkən	re-S-tku-rkən	-	-	re-\$-rkən	re-\$-rkə-net
2pIA	r-ine-\$-rkəni-tək	re-S-tku-rkəni-tək	·	•	re-\$-	rkəni-tkə
3sgA	r-ine-\$-rkən	ne-re-\$-rkəni-mək	ne-re-\$-rkəni-yət	no-re-\$-rkəni-tək	re-S-rkə-nin	re-\$-rkə-ninet
3plA	ne-re\$-rkəni-yəm			_1	ne-re-S-rkə-n	ne-re-\$-rkə-net

FIGURE 10.8. Transitive intentional neutral.

	1sgO	lplO	2sgO	2plO	3sgO	3plO
lsgA	-	•	m-\$-yət	m-S-tək	m-\$-(y?e)-n	m-\$-net
1pIA		-	mən-\$-yət	mən-Ş-tək	mən-\$-(y?e)-n	man-\$-net
2sgA	q-ine-\$-yi	q-\$-tku-yi	-		q-\$-y-ə-n	q-S-y-a-).21
2plA	_q-ine-\$-tək_	q-\$-tku-tək	-	-		y-ə-tkə
3sgA	n-ine-\$-(y?e)-n	?ən-\$-mək	?ən-\$-yət	?ən-\$-tək	n-\$-nin	n-\$-ninet
3plA	7ən-\$-yəm	1			?ən-\$-(y?e)-n	?ən-\$-net

FIGURE 10.9. Transitive intentional progressive.

	lsgO	1plŐ	2sgO	2plO	3sgO	3plO
1sgA	-	-	m-S-rkəni-yət	m-\$-rkəni-tək	m-\$-rkən	m-\$-rkə-net
1plA		<u> </u>	mən-\$-rkəni-yət	mən-S-rkəni-tək	mən-\$-rkən	mən-S-rkə-net
2sgA	q-ine-S-rkən	q-\$-tku-rkən		-	q-\$-rkən	q- \$- rkə-net
2plA	q-ine-\$-rkəni-tək	q-\$-tku-rkəni-tək	<u> </u>	-	q-\$-;	rkəni-tkə
3sgA	n-ine-\$-rkən	?ən-\$-rkəni-mək	?ən-\$-rkəni-yət	?ən-\$-rkəni-tək	n-\$-rkə-nin	n-\$-rkə-ninet
3plA	?ən-ine-\$-rkəni-yəm]	<u> </u>	<u> </u>	?ən-re-\$-rkə-r	1 7ən-\$-rkə-net

FIGURE 10.10. Transitive conditional neutral.

	1sgO	JplO	2sgO	2plO	3sgO	3plO
1sgA	•	•	m-?-\$-yət	m-7-\$-tək	m-?-\$-(y?e)-n	m-?-\$-net
lpÏA	•		mən-7-\$-yət	mən-7-\$-tək	mən-?-\$-(y?e)-n	mən-?-\$-net
2sgA	n?-ine-\$-yi	n?-\$-tku-(y?e)-n	-	-	n ⁷ ·\$-y-ə-n	n?-\$-y-ə-net
2pIA	n?-ine-\$-tək	n?-\$-tku-tək		-	n?-S-y	-ə-tkə
3sgA	n ⁷ -ine-\$-(y ⁷ e)-n	ne-n ⁷ -\$-mək	ne-n ⁷ -\$-yət	ne-n?-\$-tək	n?-\$-nin	n?-\$-ninet
3pIA	ne-n?-\$-yəm]			ne-n ⁷ -\$-(y ⁷ e)-n	ne-n?-\$-net

FIGURE 10.11. Transitive conditional progressive.

	1sgO	1plO	2sgO	2p!O	3sgO	3plO
1sgA	-	-	m-?-\$-rkəni-yət	m-7-S-rkəni-tək	m-?-\$-rkən	m-?-\$-rkə-net
1plA	+	-	mən-?-\$-rkəni-yət	mən-?-\$-rkəni-tək	mən-?-\$-rkən	mən-?-\$-rkə-net
2sgA	n?-ine-\$-rkən	n?-\$-tku-rkən	-	-	n?-\$-rkən	n?-\$-rkə-net
	n?-ine-\$-rkəni-tək	n?-\$-tku-rkəni-tək	-	•	n?-\$-	rkəni-tkə
3sgA	n?-ine-\$-rkən	ne-n?-\$-rkəni-mək	ne-n?-\$-rkəni-yət	ne-n?-\$-rkəni-tək	n?-\$-rkə-nin	n?-\$-rkə-ninet
3plA	ne-n?-\$-rkəni-yəm				ne-n?-\$-rkə-n	ne-n?-S-rkə-net

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10.2.1 Pronominal cross-reference

The active inflectional paradigms may select from a set of person-number prelixes and suffixes, although not all forms do (see §10.2.2). When they occur, personnumber prefixes always cross-reference A or S. These prefixes are fused with mood (but not tense) markers, as shown on the following table:

FIGURE 10.12. Pronominal prefixes A/S.

future & non-future intentional conditional

IsgA/S	<u>t-</u>	m-	m?-
lplA/S	mət-	məri-	mən?-
2sgA/S		q-	
2pIA/S	Ø		n?-
3sgA/S		n-	
3pIA/S		<u> </u>	

Most person-number suffixes cross-reference O and S differently. These pronominal suffixes are not fused with markers of any other grammatical category.

FIGURE 10.13. Pronominal suffixes S/O.

<u></u>	S	0		
1sg	Ø (-k)	-yəm	7	
1p1 2sg 2p1 3sg 3p1	Ø (-mək)	-mək		
'sg	Ø	-yət	_	
1	-tək	-tək		
7	Ø	-n	1	
v [-t	-net	7	

The bracketed forms only appear in aspectually neutral paradigms. The 3piS suffix is -t, the same as the 3pl suffix for nouns, adjectives. However, the third person S forms of verbs show irregularities in certain TAM combinations, underlined in figure 10.14:

FIGURE 10.14. Third person S suffixes, singular and plural.

····		non-future	future	intentional	conditional
neutral	- · ·	\$-(Y?)-i \$-(Y?e)-t	re-S-(y?e) re-S-ŋ-ə-t	n-\$-(y?e)- <u>n</u> n-\$- <u>net</u>	n ⁷ -\$-(γ [?] e)- <u>n</u> n ⁷ -\$- <u>net</u>
progressive	(sg.) (pl.)	\$-rkən \$- <u>rkət</u>	ře-\$-rkən re-\$-rkəne-ŋ-ə-t	n-\$-rkən n-\$-rkəne-t	n [?] -\$-rkən n [?] -\$-rkəne-t

In intentional and conditionalneutral forms, intransitive verbs unexpectedly use the third person O suffixes instead of the S suffixes used by future/non-future and progressive verbs, i.e. -net rather than -t and -n rather than Ø. The non-future progressive form is -rkət; this is apparently a fused form of progressive and 3pl, but does not follow any regular phonological or historical process.

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There are two suppletive A-O person-number affixes used with transitive verbs, shown below:

FIGURE 10.15. Suppletive person-number marking.

	3rd singular O	3rd plural O
2nd plural A	-tk	6
3rd singular A	-лin	-ninet

All forms with second person plural A acting on third person singular or plural O have the suffix -tka. The etymological source of this suffix is difficult to determine. Generally schwa does not form part of the underlying form of a word, and this suffix is one of very few forms which has a final schwa (§3.5.4). The phonologically expected form for the underlying morpheme *-tk word finally would be -tak, which is exactly the 2plS/O form (shown above in figure 10.13). Historically this seems likely that this form should be resolved into two suffixes, *-tk indicating 2plA and another indicating 3O which has since been lost except for the syllabification. Comrie (1979:240 note 12) discusses and dismisses the possibility that this form is related to the suffix -tku (discussed §10.2.2) but also suggests that it is unlikely that -tka is related to -tak, since this would make it the only A marking suffix in the language. Note however that in Chukchi only a few pronominal suffixes can be shown to be intrinsically associated with a particular syntactic role. See also the possible morphological breakdown of -nin and -ninet given below.

Forms with a third person singular A acting on a third person O have the suppletive suffixes -nin (3sgA.3sgO) and -ninet (3sgA.3plO). These could be further segmented if we propose a suppletive A suffix *-ni-, which then combines with the regular 3rd person O suffixes -n and -net. Although this is a viable approach, it obscures the similarities of the -nin/-ninet forms to the other -(C)in(e)-(t) suffixes in the language (such as possessive -in(e-), §8.7.1, relational -kin(e-), §8.7.2; perfect -lin(e-), §10.3.1; habitual and adjective -qin(e-), §10.3.2, §16.2).

10.2.2 Inverse alignment

A large part of the transitive verbal inflectional patterns can be accounted for through the notion of inverse alignment. Inverse alignment is a grammatical subsystem which functions to distinguish A from O by marking non-prototypical agency relationships as distinct from prototypical agency relationships (Gildea 1994).

The structure of the Chukchi verb paradigm can be accounted for by postulating a markedness hierarchy for agency:

FIGURE 10.16. Markedness hierarchy for agency.

(less marked agent) 1 < 2 < 3sg < 3pl (more marked agent)

For example, this hierarchy determines that:

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 $1A \rightarrow 2O$ is an unnarked agency relationship (i.e. DIRECT) $2A \rightarrow 1O$ is a marked agency relationship (INVERSE) $3sgA \rightarrow 3sgO$, $3sgA \rightarrow 3plO$ are both unmarked (DIRECT) $3plA \rightarrow 3sgO$, $3plA \rightarrow 3plO$ are both marked (INVERSE)

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This hierarchy is language specific, although it conforms to observed typological norms (e.g. Silverstein 1976, Gildea 1994). Speech act participants are more likely to be unmarked agents than non-participants in the speech act. Similarly, more individuated entities are more likely to be agents than less individuated entities. For transitive verbs with arguments which are entirely speech act participants Chukchi provides an invariant and largely arbitrary solution that first person is a more likely agent than second person (other languages with inverse marking choose to rank these the other way). Similarly, third person acting on a (different) third person provides a problem to the system which Chukchi solves by defining 3sgA as grammatically unmarked and 3plA as grammatically marked whatever the number of the 3rd person O.

Chukchi has three morphological markers of inverse alignments, ne-, ine- and -tku. Of these, the latter two also carry out other functions which have the common functional core of *reducing transitivity* (see also §11.6). Changes in transitivity have been discussed before for Chukchi under the name *degrees of ergativity* (Comrie 1979, Nedjalkov 1979). The three inverse alignment affixes occur in the active verbal paradigm as follows:

FIGURE 10.17. Inverse markers in the Active Paradigm.

	1sgO	1plO	2sgO	· 2plO	3sgO	3plO
IsgA	-	1	-			
1plA				<u></u>	direct	
2sgA	ine-16	⊱-tku	-	-		
2plA	inverse	inverse			suppl	etive
3sgA					(dir	
3plA			inverse			

The shaded area of the above figure shows the forms which are inverse. The $1A\rightarrow 10$ and $2A\rightarrow 20$ relationships are impossible forms within this cross-referencing system; other unshaded areas are direct. The inverse alignment markers occur whenever the O is situated higher on the agency hierarchy than A. The area marked 'suppletive' contains the forms listed in figure 10.15 in §10.2.1 where it is suggested that they are analysable as fused derivatives of once regular direct forms.

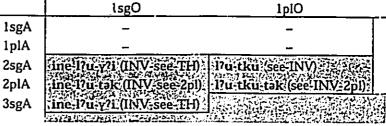
Most of the direct forms in the paradigm have cross-reference for both A and O. The inverse forms have at most one pronominal affix cross-referencing a participant. The forms with ine- and -tku inverse markers mark a 2plA by means of the pronominal suffix -tək (which is otherwise 2plS/O; §10.2). The other ine-/ -tku forms have no pronominal cross-reference. This is illustrated by the following

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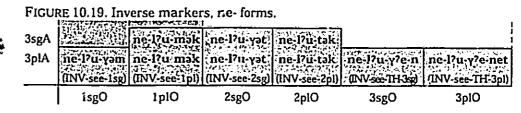
fragment of the non-future neutral aspect (aorist) paradigm of the transitive verb 17 u see.

FIGURE 10.18. Inverse markers, ine- and -tku forms.



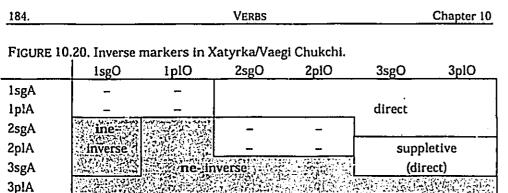
NOTE: the suffix - γ ?i is underlyingly two thematic suffixes *- γ ?e-i, both of which are used to avoid having stem-final verbs (§10.2.7).

The ne- inverse forms have a pronominal suffix which cross-references the O (\$10.2). These forms are used in all other inverse alignment areas of the paradigm. The ne- inverse was first reported in Comrie (1980).



The markedness hierarchy for agency provides motivation for the distribution of inverse marked versus non-inverse marked areas of the paradigm (the shaded areas in figure 10.17). It is more difficult to provide motivation for the precise distribution of the three different inverse markers within this zone. There are, however, some clues.

• In the Chukchi of the extreme southern coast and southern inland regions (around Markovo) the **-tku** suffix does not occur within the verbal paradigm. In its place the ne- inverse prefix is used. The resulting distribution of forms is identical to the distribution of ine- and ne- in Koryak dialects (although Koryak also has a dual, which adds further complexity to the paradigm). Figure 10.20 below shows the use of the inverse markers in Xatyrka/Vaegi Chukchi (§1.1, map 2), which can be compared to the distribution in Telqep and other more northerly varieties, shown in figure 10.17.



This variety of Chukchi is mutually intelligible with other Chukchi varieties. The extension of the use of the ne- inverse into second-person A functions suggests that it is not strongly associated with third person, even if in other Chukchi varieties it only occurs with third person forms (note also that 2=3 person is well attested both in other areas of Chukchi grammar, and also cross-linguistically).

• Apart from its use in the verbal paradigm, where it only occurs with first person plural Os, the -tku suffix is used for a range of other functions linked to the notion of plurality. Thus, -tku acts as an iterative derivational 'fix for verbs, and a collective derivational suffix for nouns. When acting as an iterative marker, -tku may or may not also be an antipassiviser (§11.6.2, §14.4.5).

•Where both arguments of a transitive verb are speech-act participants (SAPs), the morphological marking has the feature that plurality of SAPs is always shown:

person and r	number of:	pronominal	inverse marker
A	0	cross-reference?	
2sg	lsg	none	ine- (inverse)
2sg	1pl	none	-tku (inverse + plural)
2pl	1sg	to A (-tək)	ine- (inverse)
2p1	lpl	to A (-tək)	-tku (inverse + plural)

The motivation for this may be markedness; plurality in SAP \rightarrow SAP interactions is grammatically marked, as the prototypical SAP \rightarrow SAP interaction probably consists of a single speaker addressing one person.

Compare the situation when only one of the arguments is a SAP:

number of		pronominal	
Α	Ò	cross-reference?	
3sg	1sg	none	ine- (inverse)
3sg	1 pl	to O (-mək)	ne- (inverse)
3pl	lsg	to O (-γəm)	ne- (inverse)
3pl	1pl	to O (-mək)	ne- (inverse)

The ine- inverse used with $3sgA \rightarrow 3sgO$ has no pronominal cross-reference. Other forms mark number and person of the O with a pronominal suffix.

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10.2.3 Aspect: progressive and neutral

All tense-mood combinations of active inflecting verbs can be marked for progressive aspect. Verbs unmarked for progressive aspect are aspectually neutral. The progressive is marked by a suffix with several allomorphs, shown below in the men's dialect forms:

	-rkə-/+n	(before n initial morphemes)
$PROG \to \langle$	-rkəni-/_+[SAP]	(before a pron. suffix indicating a SAP)
	-rkən(e-)/_elsewhere	(before any other suffix)

The women's dialect forms of the progressive morphemes have cc corresponding to rk of the men's dialect:

$$PROG \rightarrow \begin{cases} -cc_{2}/_+n \\ -cc_{2}ni_/_+[SAP] \\ -cc_{2}n(e_{-})/_elsewhere \end{cases}$$

The 'elsewhere' condition is given here with two forms, word final -rkən/-ccən and word internal -rkəne-/-ccəne. Deletion of word final underlying *-e-vH is a productive morpho phonological process for many different morphemes (e.g. type Ic nouns, §6.3.1).

The alternation between the forms -rkani-/-ccani and -rkane-/-ccane, governed by the type of subsequent morpheme, is unusual for Chukchi, but in this instance is not unprecedented as there is evidence elsewhere in the language of an -iligature morpheme' joining SAP pronominal elements (see -iyam, -iyat in §10.3)

Examples of verbs with progressive:

001	anə=qun so=INTS	anə SO	r [?] enut what?	<u>qawrətk</u> rusile-PRO		
	What can	that be r	ustiing?			[ke011]
002	and le	atka∙t g∙3plABS	H say-3 ənqen that.3sç.".BS	lsgA.3sgO q-ə-ni INT-E-w	" <u>q-?omr-ena-nr-aa-rkan</u> ! INT-strong-AP-hold-TH-PROG lu-rka-net!" ave-PROG-3plO <i>to him "Hold on tight! And wa</i> t	ve your [cy134]

The habitual aspect can't be marked for other tenses and moods (§10.3.2), so when a future or intentional/conditional habitual meaning is required the progressive may stand in as an all round imperfective aspectual. If example 003 was put in the non-future tense, the future verbs (underlined) would be habitual rather than nonfuture progressive:

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003	ənk?am and	1	nenenə child	<u>ra-téry</u> FUT-ciy-P	<u>aa-rkən</u> ROG		1	<u>ne-r-iw-a-rkani-yat</u> INV-FUT-say-E-PROG-2sg0)
	."waj DEICT	waj DEICT	q-ə-nləvv INT-E-breas	•	-3sgO	anə so	I	tery-ə-l?at-ə-rkən" cıy-E-DUR-E-PROG	1
	ləyen really	•	-r <mark>kə-net</mark> -E-PROG-3plO	"eej yes	waj DEICT		-	e-plətko-ŋŋo-y?a-k INTS-finish-INCH-TH-1sg	
	janot first	waj DEICT	qeme-j ər dish-content		m-ə-te 1sg.INT	-		e-n!" -TH-3sgO	
		you ju						hey, breastfeed him, h h up here, first I'll dis	

10.2.4 Tense: future and non-future

Non-future tense is morphologically unmarked; future tense is marked with the prefix re-/ce-. There is also a thematic suffix *-ŋ which appears with the following person-number combinations of the aspectually neutral paradigm:

- 2plA → 10
- all 30
- 3plS

Furthermore, the progressive aspect future with 3plS also has the -n, which is regularly expanded to -rkəneŋət (PROG-TH-E-3pl; see ligure 10.14, §10.2.1). No other progressive forms have the -n thematic suffix. In the neutral aspect paradigm of transitive verbs the suffix has an allomorph -n before the third person plural suffix -net, and undergoes regular allophonic changes before other suffixes. Thus underlying *-n-ninet (the suffixal part of the future 3sgA.3plO form) is realised as -nninet, where *-n $\rightarrow \gamma/_n$ by regular phonological process; §3.3.3). In contrast, *-n-net (3plA.3plO) is realised as -nnet, which is the result of the morpheme specific allomorphy rule *-n $\rightarrow n/_n$ (perhaps by analogy to the 3sgO forms -non, which are formed from underlying *-n-n# with regular schwa epenthesis; §3.2.2). In the 2plA forms the suffix is realised *-n-n-the (TH-2plA) \rightarrow -ntak, which is a regular phonological change $n \rightarrow n/_t$ (§3.3.3).

The markings of future tense are very similar to the *desiderative* (a modal derivation, see §14.6.1), differing only in that the -ŋ suffix is universal in the desiderative. These forms presumably have a common origin, although they have clearly diverged. The desiderative can be used with any verb or converb form (see example 006), including even verbs in the future tense, which are formed by cognate morphemes. The grammaticalisation pattern whereby a lexical form meaning *desire* becomes a grammatical marker of *future* is familiar (cf. Bybee and Dahl 1989). The difference in distribution is difficult to explain; however, it is typologically not unusual for an inflectional category to be less regular than a derivational category.

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future with a 3rd	mples show the future and the desiderative. Examples show the future and the desiderative. Examples on O (thus marked with the thematic suffix -ŋ) without 3rd person O or the -ŋ suffix. Exam	; example 005
•		
But If you ge away, they'll	greedy, if you will wipe out the herd, they'll shoot yok kill you.	ou straight [jo066]
FUT stra	nger-ERG INV-FUT-take-2sgO also	-
Those enemie	s will kidnap you too.	[ot024]
006 cawcawa-tko reindeer.herder-C	DLL-3pIABS that.3sgABS	
	<u>ocaw-ŋ-ə-tko-qenat</u> =?m /	
	-be.in.kolxoz-DESID-E-ITER-3pIO=EMPH to put the reindeer folk into kolxozes	[he016]
	lerative here is affixed to a root with the habitual i vith the future as it does not cooccur with any oth	-
	the future tense are obligatory with modal parti ad meconko enough, possible.	icles, such as
007 a-qora-ka PRIV-reinder-PR	t-ə-re-n?el-y?e / căm?am t-ə-re-jmit- V 1sg.F.F.IIT-become.TH unable MOD 1sg.F.F.IIT-star	•

007	a-qor PRIV-re	·a-ka eindeer-PRIV	t-ə-re-n?el-γ?e 1sg-E-FUT-become-TH		cam?am unable.MOD	t-ə-re-jmit-yət 1sg-E-FUT-slaughte	r-2sg
	I'li be	e left with	out a reindeer, I can't si	laug	hter you		[ke108]
008	iyət now	waj DEICT	ekwew-ə-nŋe-ɣ?i left.hamess.deer-E-acquire-TH		necənkə bie.MOD	nireq two	
	qora- reindee	t r-3plABS	ra-jaa-ŋ-ə-nat FUT-use-FUT-E-3pi				
	Now your		ot a leftside harness dee	er, ya -	ou will be a	able to use two de	eer (with [cy166]

Negative clauses with notionally future reference are marked entirely differently. Instead of the tense affixes they use the negative particle qərəm with a verb in the intentional (§10.2.5). Negation is discussed in §18.

When an optional word final thematic suffix $-\gamma^2 e^{-\nu H}$ is omitted, a schwa is pronounced in its place:

009	ənqom then	neme again	jet-y?i come-TH	1	pellem soon	waj DEICT		
	ra-ŋaw-a	⊶n•raγt•a	t-ə					
	Again he came - "Soon you'll take [your] bride home"							

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In example 009 the word rangawanraytata (ending with -a) is equivalent to rangawanraytaty?a (ending with $*-\gamma$?e). The truncated version occurs more commonly when the stem is polysyllabic.

10.2.5 Mood: intentional

The intentional and conditional moods are marked by prefixes fused with person and number markers (listed in figure 10.12). The intentional mood has a number of functions. It marks:

- Intended/hypothetical action (particularly 1st and 3rd person)
- imperative/hortative modality
- negated inflecting verbs

First person intentional is used for hypothetical or intended actions:

010	miŋkə Somewhere	tang-ə-t stranger-E-3pIABS	n-ə-twa-qenat HAB-E-be-3plS	n-iw-qin HAB-say-3sgS	
	"jureq maybe	<u>m-ə-l?u-?e-n</u> 1sgA.INT-E-see-TH-3sgC	miŋkə") somewhere		
	[He went off to] Where the so somewhere"		trangers lived, h	he said: "Maybe I'll find her	[ot033]

The use of 1st person intentional' is contrasted with 1st person future, which is used for actions not expected to be resisted in any way, utterly under the control of the agent. In the following example the evil brother-in-law challenges the hero Cəkwaŋaqaj to a duel. He uses both future and intentional in his challenge:

011	yəmn-İn 1sq-POSS.3sgABS	15 5		vəl waj 3sgABS DEICT		nutku here	γətγ-ə-lγ-e lake-E-EDGE-	
	t-ə-ra-nl?aten-ŋ lsqA-E-FUT-lead-TH		ŋenku here	ənqer this.3sq			a-pojyal?at-a IT-spear.fight-E	!
	əməl?o-more all-1pIABS	ənyatal of.course	ənkə there	<u>mən-ə-nm</u> 1p1.INT-E-kill	i-ə-yət	•		,
	I'll also bring n	ny herd here	to the ec	Ige of the li	ake: ti	here we'll a	all fight with	2

I II also bring my herd here to the edge of the lake; there we'll all fight with ~ "spears, and there of course we'll kill you. [ot083]

The word təranl?atenŋən I will (FUT) lead it refers to an action completely under the control of the agent. The verb mətrapojyəl?atə we will (FUT) have a fight refers to the action without reference to any possible result (and, considering the bloodbath perpetrated by Cəkwaŋaqaj on the brother-in-law's colleagues preceding this challenge, it is unlikely that he will avoid the fight), and contrasts with the blustering mənənməyət we will (INT) kill you, a result hoped for but which will certainly be resisted, i.e. the hypothetical result. The next sentence in this text has the threat:

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012	nelwəl herd.3sgABS	yən-in 2sg-POSS.3sgABS	murəy-yelwəl?-e 1pl·herd-ERG	
	<u>n-ə-tenti-cqəw-jəy-nin</u> INT-E-stamp.down-PURP-INTS-3sqA.3sqO			
	Our herd w	vill stamp your he	erd flat.	[ot034]

The intentional here again marks an intended and hypothetical outcome.

Intentionals with second person A or S most commonly have imperative meaning. Aspectually neutral forms of the intentional with all forms having a second person A or S have the thematic suffix - γ . Second person imperative is frequently expressed grammatically in the world's languages even when there is no analogous marking for first or third person. This suggests that the - γ thematic suffix might be a trace of an older historical imperative (see also §10.2.7).

013	ewər	<u>q-ine-winret-y-a-tak</u>				
	\$0	INT-INV-help-TH-E-2pi				
	Help me please					
···· .		· · · · · · · · ·				

Third person intentional with hypothetical meaning:

014	kə:kel INTJ	ipe truly	<u>?ən-iw-?e-n</u> INV.INT-say-TH-3sgO	
Oh! Could the		uld the	y be telling him the truth?	[ot035]

[na083:3]

Negated inflecting verbs are marked by a particle and a verb in the intentional. In negative future the particle used is qərəm, while in negative past the particle is wane. an (see §§18.2.1-2).

10.2.6 Mood: conditional

The conditional is formally very similar to the intentional (see fig. 10.3, and figs. 10.8-11, §10.2). It is the least frequently occurring verbal inflection. It can mark both the condition and the consequent of an action/event (see Chung and Timberlake 1985:250-251). The conditional encoding consequences may overlap with the hypothetical meanings encoded by the intentional. The difference seems to be degree of unreality; hypothetical intentional could be true, or something might be expected to be done to make it true. In contrast, hypothetical conditional isn't true and isn't expected to be.

Conditional with progressive aspect:

015	qejwe truly	kənmal logether	mən?-ə·lejw-ə·rkən 1pl.COND-E-roam-E-PROG	mən?-ekwet 1pl.COND-leave	qejwe truly
	ceeqej together	janor first	or		
	If wo w		it hunting together if		- C

If we were going out hunting together, if we went together first... [an019]

Conditional with neutral aspect:

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016	meŋqo thence	mən?-ə-janr?an-mək=?m 1pl.COND£-separate-1pl=EMPH	ənqen that	janor first	winə trail	
	SLED trail	JEVO his				
	From th	ere we might separate, that o	one îthe be	earl first l	foliowsi h	is 'tracks (not

From there we might separate, that one [the bear] first [foliows] his 'tracks [not mine]. [an020]

The following is the closing section of a text about the realities of modern reindeer herding where the speaker (a retired reindeer herder) talks about how things should be, instead of how they are:

017	qəmel ənqo n-arojw-?aw / n?-ə-yr?o-rkə-nat / so then ADV-healthy-ADV COND-E-be.born-PROG-3pi
	ənk?am n-ə-mk-ə-qin qejuu-t / n?-ə-jaytal-ə-jijo-nat ənqorə and ADJ-E-many-E-3sg calf-3plABS COND-E-be.saved-E-INCH-3pl then
	awrena-tko-ytə ecwera-yəry-ə-n wa-k=?m next.year-COLL-ALL success-NMZR-E-ABS be-SEQ=EMPH
	Then they would calve healthily, and many calves would be preserved for the next year successfully [he112]
018	qəmel / met-təle-mək-ə [#] n?-ə-n?el-ə-net yelwəl?-ə-t=?m so APPR-go-big-E COND-E-become-E-3pl herd-E-3plABS=EMPH
	Then the herd would become gradually bigger [he113]
019	gəmel=?m waj remk-ə-n əngin n?-ə-qaanmaa-rkən so=EMPH DEICT folk-E-3sgABS thus COND-E-slaughter.reindeer-PROG
	wil-unen?-ə-Iy-ə-rkə-net/tekicy-ə-t=?mtrade-EQU3pIA.COND-E-AUX-E-PROG-3pIOmeat-E-3pIABS=EMPH
	Then people would be able to slaughter reindeer for trade, meat [he114]

10.2.7 Thematic elements

There are four thematic suffixes which occur with active verbal inflectional paradigms. The suffixes $-\eta$ (future §10.2.4) and $-\gamma$ (intentional §10.2.5) have already been discussed. There are also the suffixes $-\gamma$?e and -i, both of which occur only in active non-progressive paradigms.

The suffix $-\gamma^2 e$ occurs optionally in any active verb form fulfilling the following conditions:

neutral (non-progressive) aspect

or d which has either:

• no person-number suffix

or

• a person-number suffix formed by a strije consonant; i.e one of -n (3sg,O). -t (3plS), or -k (1sgS)

While $-\gamma^2 e$ is never obligatory, it is rarely omitted when the stem is a monosyllable. It can cooker with the future thematic suffix -ŋ, but cannot cooker with the intentional thematic suffix - γ .

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The suffix -i occurs only in the non-future and intentional with non-progressive aspect. It is obligatory with all forms which do not have a person-number suffix. It thus frequently coöccurs with the optional suffix - γ ?e to give the form - γ ?i < *- γ ?e-i according to regular phonological rules.

10.3 Stative inflections

Stative inflectional paradigms are formally similar to (and most likely derived from) a class of predicate adjectives and nominals. They directly cross-reference one and only one core argument, and only have one mood, which is realis. I call the γe - prefixed forms, which mark attainment of a permanent state, the *perfect* (see Comrie 1976a) and the n- prefixed forms (which mark universal or habitual aspect) the *habitual*. The cross-reference to arguments is carried out by pronominal suffixes, which in first and second person are very similar to the oblique forms of person pronouns.

The stative inflectional paradigms use the following agreement suffixes:

FIGURE 10.21. Pronominal affixes, stative paradigms.

	Singular	Plural
1st Person	-iyəm, -jyəm	-muri
2nd Person	-iyət, -jyət	-turi
3rd Person	-lin (perfect)	-linet (perfect)
•	- qin (habitual)	-qinet (habitual)

These suffixes are all familiar from nominal morphology; the first and second person suffixes are identical to nominal person marking (§6.2) and similar to the free personal pronouns (§7.2), and the third person pronouns are reminiscent of other third person markers: -in(e-t) (possessive §8.7.1), -kin(e-t) (relational §8.7.2). Note also that the morphological form of intransitive habituals is identical to that of predicative adjectives (distinguished however by the form of their diminutive derivation (cf. §14.6.3 diminutive, and particularly §16.3.2 diminutive adjectives).

Stative verbs are constructed according to different structural principles and with different types of morphological markers than active verbs, and the cross-referencing strategies used in one type of paradigm cannot be applied to the other. Stative verbs take a different set of pronominal affixes than active. Furthermore, the person-number affixes used by stative verbs are all suffixes and all inhabit a single morphological slot, so more than one cannot occur within a single verb. For intransitive verbs the pronominal affixation is simple and unambiguous; the pronominal suffix agrees with S, the only core argument. With transitive verbs the selection of which core argument is to be cross-referenced is more complicated. Many transitive stative verbs agree with just O, but others take the **ine-** and -tku affixes (§10.2.2) of inverse alignment and agree with A. Furthermore, in the habitual paradigm all the direct forms also take the **ine-** prefix and agree with A;

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this is obviourly not inversion, but it can be linked to the overall 'transitivity reducing' function of the ine- and -tku affixes.

In the perfect the pronominal suffixes of transitive verbs always cross-reference to O except in contexts where the ine- and -tku affixes are used with the active paradigms. Since the affixes ine- and -tku are derivational transitivity changers in addition to their functions in the verbal paradigm they can occur with transitive stems in all environments, including nominalisations etc. This is not so for ne-, which is only an inverse marker, and which does not have any other functions. In line with their similarities to predicate nominal/adjective markers, stative paradigms do not provide a morphological slot which could accommodate ne-. The fact that it is morphologically possible for ine- and -tku to appear in the stative paradigms is of itself not enough of a motivation for them to do so. The presence of the these two inverse markers in the stative paradigms may be linked to the high discourse salience of both arguments of a verb when both arguments are SAPs (i.e. both high agency).

FIGURE 10.22. Cross-referenced arguments in the perfect.

	1sgO	1plO	2sgO	2plO	3sgO	3plO
lsgA	-	÷			•	
1plA		<u> </u>	<u></u>	· · <u></u>	_	
2sgA	ine	-tku	_	÷	cross-refe	rence to O
2plA	(cross-refer	ence to A)	•••	-		
3sgA 3plA						
3plA			<u></u>			

The perfect encodes meaning of result and affectedness (§10.3.1). This is further reflected by the cross-referencing, which is overwhelmingly oriented towards the undergoer rather than agent/actor. The exceptions are the five SAP i reforms (shaded in figure 10.22), which are so marked in all verbal paradigm spective of other conditions.

The habituat indicates states/events, thus encoding meanings for which the process is more salient than the endpoint (\$10.3.2).

FIGURE 10.23. Cross-referenced arguments in the habitual.

	lsgO	1plO	2sgO	2plO	3sgO	3plO
lsgA	_	-				
1plA	-				ii	l e-
2sgA	ine-	-tku	-	-	cross-refe	rence to A)
2plA	(cross-refer	ence to A)				
3sgA		(cro	ss-reference	to O)		Press, etc. Barry
3plA			÷ -			

In 'direct' contexts (shaded in figure 10.23) the pragmatic force of the habitual results in the A being very much more relevant (topical) than the O, since the

entire verb form is oriented towards the action and its controller, rather than the result and its undergoer. This orientation is reflected by the direction of cross-reference towards A rather than O. As a morphological marker of this change of cross-reference, the ine- prefix is again used. This function is very similar to the antipassive (i.e. verb agreement changes from O to A) but transitive argument structure is preserved.

10.3.1 Perfect

The perfect has the fewest morphological possibilities of all the inflectional paradigms. For almost all combinations of A and O in transitive verbs the O argument is selected for cross-reference. The exception is for five A/O combinations (shaded in figure 10.22 and below) with first person O, which have additional markers (an ine- prefix or a -tku suffix), and which cross-reference A. These five forms are marked aberrantly in all inflectional paradigms, and are discussed at greater length in §10.2.2. The perfect indicates the attainment of a permanent state, rather than the activity; thus they generally cross-reference the undergoer (O) of the event rather than the agent (A). In stories, perfect verbs occur most commonly at the beginning and the end of the narrative, when the initial conditions of the story are being established and the final outcome of the story is being summarised.

FIGURE 10.24. Perfect — transitive and intransitive.

<u> </u>	1sgO/S	1p10/S	2sgO/S	2plO/S	3sgO/S	3plO/S
lsgA	-	-	ye-\$-iyət	ye-\$-iyət		
IplA	•					
2sgA	y-ine-\$-iyət	γe-\$∙tku-iγət		•		
2plA	y-ine-\$-turi	ye-\$-tku-turi		•	ye-\$-lin	γe-\$-line-t
3sgA	Y-ine-\$-lin					
3pIA	ye-\$-iyam	ye-\$-muri	ye-\$-iyət	ye-\$-turi		
intr.						

The following text comes from the beginning of a traditional story. It sets the background for the main action, all of which occurs much later when the son and daughter have grown up. All verbs are in the perfect, and refer to situations which are put in place for a very long time to come.

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020a:	ənqena-cək remk-e this-ANpl.ERG folk-ERG uget-1?-ə-n collect.firewood-NMZR-E-3sqABS	<u>ye-piri-lin</u> / PF-take-3sg <u>ya-n-rayr-at-le</u> PF-CS-go.home-CS		
b:	enmen ənqen once.upon.a.time this.3sgABS ənpənacy-ə-qaj-ə-ry-en old.man-E-DIM-E-3pl-POSS.3sgA	jeekək	11	
c:		gew-qey-ti E-woman-DIM-3pIABS	ənpənacy-ə-qay-te old.mən-E-DIM-3pIABS	əmə and
	(a) Those folk had kidna that was [:vhat happened woman, the old man and	to] Jare, the old	people's daughter. (c)	The old

After this, the main action of the text begins, and verbs are either in the habitual form or the non-future neutral form (see Appendix for the complete transcript of this story).

The perfect is also used to refer to things which happened prior to a reference frame which is already in the past, e.g.:

021	Jare	cakəyet=?m	ïjenku	<u>y-?eliket-lin</u>	
	personal.name.3sgABS	sister.3sgABS=EMPH	thère	PF-marry-3sg	
	Jare, the sister, had got married there.				[ot051]

10.3.2 Habitual

The habitual is marked by the prefix n- and a suffix like that of the perfect, differing only that it has -qin(e) instead of -lin(e) in the third person. The habitual marks actions/states without reference to their endpoints, and for most higher agency values of A has the ine- or -tku affix which changes the default cross reference from O to A (see §10.3).

FIGURE 10.25. Habitual - transitive and intransitive.

	lsgO/S	1plO/S	2sgO/S	2plO/S	3sgO/S	3plO/S		
lsgA	•	-	n-ine-\$-iyəm					
1plA	•	-	n-ine-\$-muri					
2sgA ·	n-ine-\$-iyət	n-\$-tku-jyət	-	-	n-ine-\$-iyət			
2plA	n-ine-\$-turi	n-\$-tku-turi	•	•	n-ine-\$-turi			
3sgA	n-ine-\$-qin				n-ine-\$-qin	n-ine-\$-qine-t		
3plA	n-\$-iyəm	n-\$-muri	n-\$-iyət	n-\$-turi	n-\$-qin	n-\$-qine-t		
intr.								

The habitual is common in narrative descriptions of situations, and in habitual/universal contexts. An example of the former is:

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022	<u>n-ilu-l?et-qin</u> HAB-s¦ıake-INTENS-3sg <u>n-ə-req-ə-l?et-qin</u>	loŋ-kətəjyat-ə-1?-: NEG-wind.blow-E-NM2		oyen ally	pojy-ə-qaj spear-E-DIM.3	sgABS
	HAB-E-do.something-E-IN	•				
		e spear in to the sno spear was doing thi		as shal	king, there w	as no [ot03
	he following exampl he time of another ev			•	-	lrinking
023		jəl?-ə-t ewən -3pIABS INTS	Cəkwaŋaqaj personal.name.3s	gABS	<u>n-ə-cajo-qe</u> HAB-E-drink.te	
	The reindeer drive	rs arrived, Cəkwaya	iqaj was alrea	dy dri	nking tea.	[cy112
The	next example is a l	nabitual/universal	tense context,	from	a text desci	ribing i
gene	eral terms the procee	lures related to chil	dbirth:			-
024	kilk‼·ti=?m umbilicum-3plABS=EMPH	cinit <u>n-ə-cci-</u> sell HAB-E-cut		•kəlw• •CS•tie•C	<u>et-qinet</u> :S-3pl	
	kəccir-e=?m / hair-INST=EMPH	angen <u>n-a-cci-qi</u> this HAB-E-cut-3 <i>they themselves cu</i>	pl	twith	hair they a	ut that
	off.	they themselves cu	<i>con, incy ite i</i>	WILL I	пан, шеу сс	[ch0]
The	interaction of the h	abitual with other	tense-aspect	combi	nations is d	iscusse
	interaction of the h 5.5.1. The habitual i		•			
in §		s intrinsically non-l	future and rea	alis; if	habitual me	aning
in §: requ	5.5.1. The habitual i	s intrinsically non-i or intentionalcon	future and rea	alis; if	habitual me	aning
in § requ inste The	5.5.1. The habitual i iired with a future	s intrinsically non-i or intentionalcon 2.3). show the inverse	future and read treat the future and read the future and read the future and the	alis; if the	habitual me progressive	aning i is use
in § requ inst The pref	5.5.1. The habitual i lired with a future ead (see section §10. following examples	s intrinsically non-i or intentionalcon 2.3). show the inverse	future and read treat the future and read the future and read the future and the	alis; if the	habitual me progressive	aning i is use
in § requ inst The pref	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n-i</u>	s intrinsically non-f or intentionalcon 2.3). show the inverse (inverse) <u>n-iw-gin</u> kitaq	future and rea ditional verb (025) and dir un eqəlpe	alis; if the	habitual me progressive	aning i is use
in § requ inst The pref Pref	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n-ir</u> first DEICT HAB q-ə-tw-ə-γ-ə-n	s intrinsically non-f or intentionalcon 2.3). show the inverse (inverse) <u>n-iw-gin</u> kitaq -INV-say-3sgHORT yayl-ə-wetyaw	future and readitional verb (025) and dir	alis; if the	habitual me progressive	aning i is use
in § requ inst The pref Pref	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n-ir</u> first DEICT HAB	s intrinsically non-f or intentionalcon 2.3). show the inverse (inverse) <u>n-iw-qin</u> kitaq HIV-say-3sg HORT yayl-a-wetyaw hury-E-word	future and rea ditional verb (025) and dir un eqəlpe quickly	alis; if , the ect (02	habitual me progressive 26) uses of	aning i is use
in § requ inst The pref 025	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n.i.</u> first DEICT HAB q-ə-tw-ə-y-ə-n INT-E-recite-E-TH-E-3sg <i>First off she (would</i>)	s intrinsically non-formation intentional constant of a standard straight s	future and rea ditional verb (025) and dir un eqəlpe quickly	alis; if , the ect (02	habitual me progressive 26) uses of	aning i is use the ine
in § requ inst The pref 025	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n-ir</u> first DEICT HAB q-a-tw-a-γ-a-n INT-E-recite-E-TH-E-3sg <i>First off she (would</i> ix ine-; 1plA, 3sgO (angen qanwo	s intrinsically non-f or intentionalcon 2.3). show the inverse (inverse) <u>n-iw-qin</u> kitaq -INV-say-3sg HORT yayl-ə-wetyaw hury-E-word <i>i) say to me "You qu</i> non-inverse) er t-ə-yjulet-ə-n	future and rea ditional verb (025) and dir un eqəlpe quickly tickly recite a ləye-taŋ-qo	alis; if , the ect (Of tongue	habitual me progressive 26) uses of	aning i is use the ine
in § requ insta The pref 025 Pref	5.5.1. The habitual i lired with a future ead (see section §10. following examples ix with the habitual: ix ine-; 3sgA, 1sgO (janot waj <u>n-ir</u> first DEICT HAB q-a-tw-a-γ-a-n INT-E-recite-E-TH-E-3sg <i>First off she (would</i> ix ine-; 1pIA, 3sgO (s intrinsically non-f or intentionalcon 2.3). show the inverse (inverse) <u>n-iw-qin</u> kitaq -INV-say-3sg HÖRT yayl-ə-wetyaw huny-E-word <i>i) say to me "You qu</i> non-inverse) er t-ə-yjulet-ə-n 1sg-E-leam-E-3sg ənqen <u>n-ena</u>	future and rea ditional verb (025) and dir un eqsipe quickly <i>tickly recite a</i> laye-taŋ-qo	alis; if , the ect (Of tongue	habitual me progressive 26) uses of	aning i is use the ine

The ine- prefix is glossed as TR ('transitive') in the habitual paradigm where it is not an inverse marker.

11 Valency

11.1 Introduction

In Chukchi the linguistic parameter of valency determines the number of optional and obligatory arguments of a verb, what pronominal cross-reference is present, the case marking of nominal arguments, and the semantic roles associated with these cases (see Mosel 1991). As Chukchi allows nominal arguments to be omitted where they are retrievable from context, evidence about valency is most reliably sought by looking at the number of morphological positions for obligatory pronominal cross-reference on the verb. As shown in §10, Chukchi verbs show two morphological valency values: one-place intransitives and two-place transitives. The number of these overtly coded morphosyntactic arguments a verb takes is its syntactic valency (e.g. Van Valin & LaPolla 1997:147). This system is further elaborated as certain verb stems, despite inflecting as transitives or intransitives, nevertheless seem to require a different number of obligatory arguments than the canonical value; these arguments are expressed by overt nominals, not by crossreference. In many cases it is difficult to decisively prove that an oblique argument is obligatory, as even notionally obligatory arguments could be omitted where retrievable from context. Nevertheless there are a few verbs for which a reasonable argument can be made for non-canonical valency values; these include zero place intransitives (§11.2.1), extended (two-place) intransitives (§11.2.2), and extended (three-place) transitives (§11.3.1). The number of semantic arguments a verb has is its semantic valency. The differences between syntactic and semantic valency are summarised below:

	syntactic valency	semantic valency
zero-place intransitive	1	0
(canonical) intransitive	1	1
extended intransitive	1	2
(canonical) transitive	2	2
extended transitive	2	3

The terms A, S and O used in this thesis (Dixon 1979, 1994) are descriptively useful shorthand for distinguishing the arguments denoted by syntactic valency. S

76.0		1	1	
-na	oter	1	1	

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applicative. The S of the intransitive verb (003) has the same semantic role as the A of the applicativised form (004), i.e. it is an S_a (an S which clusters morphosyntactically with A; Dixon 1994).

- 003 geekak wetyak-w?e sister.3sgABS speak-TH(3sgS) The sister spoke.
- 004
 neekke-te
 rə-wetya-an-nen
 əpəqej

 sister-ERG
 APPL-speak-APPL-3sgA.3sgO
 gravny.3sgABS

 The sister spoke with granny.
 Standard Sta
- (ii) Labile verbs (verbs which can be either intransitive or transitive) show the same morphosyntactic clusters; A and S_a , O and S_a .

The verb kalyat- to harness is an $A=S_a$ labile. The S of the intransitive form has the same semantic role as the A of the transitive; see examples 033 and 034 (§11.4.1).

The verb mle- to break is an $O=S_0$ labile. The S of the intransitive form has the same semantic role as the O the transitive; see examples 041 and 042 (§11.4.2).

The classification of syntactic arguments into two semantically motivated groups has considerable predictive power. While the precise nature of the semantic roles linked with the syntactic roles S. A and O is beyond the scope of this work, a broader division of semantic roles into two *macroroles* (Foley & Van Valin 1984, Van Valin & LaPolla 1997) is both possible and worthwhile. These macroroles are called *actor* and *undergoer*, and typically include the following semantic roles:

typical ACTORs:agent, experiencer, possessor, etc...typical UNDERGOERs:patient, theme, location, stimulus, etc...

The prototypical actor is an agent, and the prototypical undergoer is a patient. Semantic experiencers are generally encoded as A or S_a in grammatically unmarked contexts. However, the experiencer departs enough from the semantic prototype of actor, that it can, with grammatical elaboration, be treated as an undergoer and enter into morphosyntactic phenomena usually reserved for O/S_o. For example, the verb walom- *hear* is an A=S_a labile, with the argument frame A/S:experiencer and O:stimulus. The experiencer can not really be interpreted as causing anything, and may not be actively doing anything; in so far as they react to a stimulus, the experiencer could even be thought of as an undergoer. This ambivalence in the role of experiencer has a morphosyntactic reflection in Chukchi—an A=S_a verb of perception can be treated as an S_o verb and causativised to make a transitive with the argument frame A:causer and O:experiencer(<S_a). This derivation is shown in example 051.

It is possible that the valency (syntactic or semantic) of a lexeme and a particular verb form may not be identical. The *basic valency* of a lexeme is an abstract

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is defined simply as the syntactic role of the single argument denoted by the syntactic valency of an intransitive verb. A and O are distinguished from S in that they are with reference to the syntactic valency of a transitive verb. They are distinguished from each other according to their semantic roles in a prototypically transitive verb frame; A is the semantic agent of a Primary Transitive Verb (defined in Andrews 1985:68-69) or anything else which acts morphosyntactically in the same way. Likewise, O is the semantic patient of a Primary Transitive Verb or the argument of any other verb type which has analogous morphosyntactic behaviour (Andrews 1985:98-104). Thus,

- SAO ~ non-SAO distinction relies on the syntactic notion of 'argument'
- S ~ AO distinction relies on the syntactic notion of 'valency'
- A ~ O distinction relies on a prototype of the semantic notion and the syntactic expression of 'agency'

It is sometimes useful to classify syntactic arguments in different ways. The syntactic role of S can be divided into two subclasses, S_a and S_o , according to their morphosyntactic behaviour. The distinction between S_a and S_o is motivated by the same sort of semantic prototype that in divides the distinction between A and O. This is clearly exemplified in Chukchi by (i) the behaviour of the r-*i*-n-causative/applicative prefix, and (ii) the behaviour of labile verbs.

(i) The r-/-n- prefix makes an intransitive verb into a transitive verb (i.e. increases the number of syntactic arguments from 1 to 2). This is carried out according ... two different patterns, the causative pattern (examples 001 and 002) and the applicative pattern (examples 003 and 004).

The intransitive verb stem mejn-et (an adjective stem + verb suffix) grow up has a single argument.

001 ginqej mejg-et-γ²i boy.3sgABS big-VB-TH(3sgS) The boy grew up.

The addition of the **r**-/-**n**- prefix produces the causative form **r**ə-mejŋew bring up:

002 ŋinqej rə-mejŋ-ew-nin əpəqey-te boy.3sgABS CS-big-VB-3sgA.3sgO granny-ERG *Granny brought the boy up.*

The causativised and non-causativised forms have a semantic role in common. The S of the underived intransitive has the same semantic role as the O of the derived transitive. Thus, S_0 is an S which corresponds to the O of a derived transitive construction.

The intransitive verb wetyaw- speak belongs to another morphosyntactic class. With these verbs the r-/-n- prefix derives an

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property of an underived verbal stem, which may be subject to valency changing derivations to produce concrete verb forms with various *secondary valency* values. Mosel (1991:240-241) describes three types of secondary valency, each of which occurs in Chukchi. The secondary valency of a derived form which differs from the basic valency of the lexeme may involve a change in syntactic valency, semantic valency, or both (a change in semantic valency alone, without changing the absolute number of argument positions, might more happily be termed *valency rearranging* rather than *valency changing*; Dixon & Aikhenvald 1997). The three types of secondary valency derivations are:

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•Type I. Valency changing derivations which do not alter the semantic and syntactic status of the participant/s shared by derived and underived forms.

•Type II. Valency changing derivations which change the syntactic and semantic status of the participant/s shared by the derived and underived forms.

•Type III. Valency changing derivations which do not change the absolute number of participants of the derived and underived forms, but which do change their syntactic and semantic properties.

As discussed above for the r-/-n- prefix, a single derivation can change valency in two different ways, transitivising an intransitive so that the S of the intransitive is equivalent to the A (applicative) or O (causative) of the transitive. The ine- prefix also changes valency in two different ways, but it does this in a less symmetrical manner. This prefix intransitivises some verbs in the *antipassive* derivation, but only rearranges the semantic valency of others in the *valency rearranging applicative*.

The ANTIPASSIVE (§11.6.2) is a valency reducing derivation in which the ergative case marked participant of the transitive verb refers to the same entity as the absolutive case marked participant of the intransitiv(is)e(d) verb, e.g.:

- 005
 ?aatcek-a
 piri-nin
 roolqəl

 youth-ERG
 take-3sgA.3sgO
 food.3sgABS

 The youth took the food
- 006 **?aatcek** ine-piri-y?i youth.3sgABS AP-take-TH.3sgS

The youth took (something), the youth won the prize.

[nb065.B]

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The ine- APPLICATIVE (§11.6.1) forms a verb with the underlying O of a transitive verb stem in a peripheral role, and with an underlying peripheral participant functioning in O role in its place. This derivation can occur with verbs of manipulation; the O of the non-applicative has the semantic role of 'patient' (thing manipulated), whereas the O of the applicativised verb has the semantic role of 'destination'

The first three parts of this chapter describe the morphosyntactic behaviour of verbs classified according to valency; intransitive (\$11.2), transitive (\$11.3), and labile verbs (\$11.4).

The sections following this describe the main morphological valency changing derivations, as summarised in the following figure:

Primary (stem) valency	Affix	Derivation type	Secondary (derived) valency	Syntactic changes	
Intransitive (S₀)	r-/-n-	Causative	Transitive	S→0	- (§11.
Intransitive (S₄)	r-/-n-	Applicative	Transitive	S→A obl→O	 (§11.
Transitive	ine-	Applicative	Transitive	O→obl obl→O	(§11.)
Transitive	ine-	Antipassive	Intransitive	A→S	(511.
Transitive	-tku	Antipassive	Intransitive	A→S (iterative)	(§11.4

FIGURE 11.1. Summary of productive valency changing operations.

Causatives and r-/-n- applicatives are fully productive, but the ine- and -tku applicatives and antipassives seem to have low productivity (see below). There are also some unproductive valency changing devices which are rarely observed; these include reciprocals and anticausatives (§11.7).

There are significant syntactic differences between spontaneous spoken Chukchi and constructions appearing in the literary/pedagogical dialect (which has been the source of most examples of the Chukchi language used in linguistic comparison to date; §1.5). While Skorik didn't give sources of his linguistic material in his twovolume pedagogical/academic grammar of Chukchi, it is known that he didn't work in the part of Chukotka where the variety described in the present work is spoken, which may explain the frequent unacceptability of his examples to Telqep (and other southern) Chukchis. The following is given in Skorik (1960) as an example of the antipassive (see §11.6.2):

007	cawcəwa-t herder-3pIABS	ena-pela-y?at AP-leave-3plS	qaa-ta reindeer-INST	
	The (nomadi	c) herders left th	e deer	

None of the texts used as the database for the present work had any examples of antipassivised verbs with oblique underlying objects. In fact, the verb **pela** *leave* is an applicativising verb (§11.6.1):

 008
 ətl?a-ta
 ena-pela-nen
 yewmiryən
 coqar-a

 mother-ERG
 APPL-leave-3sgA.3sgO
 granny.3sgABS
 bread-INST

 Mother left granny some bread.
 bread-INST
 bread-INST

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[Skorik 1960:138]

[nb067.2]

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This has some similarity: Underlying O (the nominal which would be O of th pela- without the ine- prefix) appears as an oblique in the instrumental ca applicativising derivation in Chukchi is discussed in Kozinsky, Nedjalko Polinskaja 1988. Another account of Chukchi valency is found in Nedjalkov 1 11.2 Intransitive	ase. An ov and	forms an applicative wi <i>11.2.1 Zero place</i> Certain verbs, includ	o functions, determined by the status of th an S _s verb, and a causative with an S _o <i>intransitive</i> ing natural phenomena verbs and S, allow no nominal arguments. These	verb (§11.5).
Intransitive verbs cross-reference one argument. This argument may have a of semantic roles, belonging to both the ACTOR and UNDERGOER macrorole Van Valin & LaPolla 1997), equivalent to those which are marked syntactics the A and O of a transitive verb; thus there are two kinds of S, Actor S (or S Undergoer S (S_0). The actor macrorole includes agent (example 009 experiencer (example 010). Examples 011 and 012 show undergoer roles.	les (see cally by S ₀) and	like third person sing verbal inflection, in Chu no overt person-number <i>come</i>) is marked by t <i>neutral aspect</i> and eithe	ular. Apart from being the grammatic inchi the 3sgS form of the verb in the ac- marking whatsoever; e.g. the verb jety wo thematic suffixes *-y?e-i which in an <i>non-future tense</i> or <i>intentional mood</i> (m al and the perfect, which both have over	cally least marked stive inflections has ri <i>she came</i> (< jet- dicate respectively note that this is not
ACTOR S 009 <u>r?ela-yt-ə-y?a-t</u> eryatək <u>?era-myo-y?a-t</u> / janot gallop-go.to-E-TH-3pl next.day race-INCH-TH-3pl first <u>racwəŋ-akwat-y?a-t</u> race-set.off-TH-3pl They went to the race the next day, started racing, first they participated race	l in the [cy361]	nominals by the suffix deriving verbs referring and time periods (e.g. <i>n.</i> 013 piŋe-r?u-y?i	referring to natural phenomena are or -r?u (§14.4.2). This suffix also covers is to the beginning of meteorological phenotypetfall).	inceptive meaning,
10 kolo an <u>ə ye-yət?ew-linet</u> ənŋatal ya-qame-twa-myo-lenat INTS so PF-be.hungry-3pIS of.course PF-eat-RESULT-INCH-3pIS	[cy404]	snow-INCH-TH It started snowing 014 naki-r?u-y?i /	[]	[na080:1]
JNDERGOER S JII tang-a-t n-iw-qinet ok and gañ yamn-in strarger-E-3pIABS HAB-say-3pl INTJ so DEICT 1sg-POSS.3sg pIak-a-ly-a-n <u>parantet-y?i</u>			rbs (ones without the - r ?u morpheme) a be stative rather than inchoative.	<i>[jo090]</i> re formed with the
shoe-E-SING-E-3sgABS be.ripped-TH	[0:075]		miŋkəri=qun qonpə n-ə-jo?at-qen how=INTS always HAB-E-wind.blow-3s blew ceaselessIy.	g [na142:2]
so.then then ADV-healthy-ADV COND-E-give.birth-PROG-3pl ənk?am n-ə-mk-ə-qin qejuu-t / <u>n?-ə-jaytal-ə-ŋo-nat</u> ə	angora Ihén	The other source of zero S, although these are	place intransitives is intransitive verbs unusual in texts. Example 016 is a ation, showing the verb ŋəto-/-nto-	with incorporated rare spontaneous
Then they would calve healthily, and many calves would be preserved for	br the	016 ekke-t iw-nine son-3plABS say-3sgA.3	plO INTJ personal.name.3sgABS a	enmec Ikeady
There do not seem to be any syntactic restrictions on the semantic role of th an intransitive verb.		÷	omo <u>ya-nanana-nto-len</u> " and PF-baby-come.out-3sg , <i>"Kakomejl Cokwayaqaj is already marr</i>	ied, a child's even
The semantic (macro)role of S has further grammatical implications to the out of transitivity changing. Labile verbs (verbs which are both transitivintransitive) have different syntactic behaviour depending on whether	ve and	-	not necessarily make a zero intrar othes freeze (t-ewir?-ə-qit-ə-rkən 1sg-c	

intransitive form takes an Sa or an So (§11.4). Similarly, the r-/-n- derived form of

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013	piŋe-r?u-y?i snow-INCH-TH			
	It started snow	ving		[na080:1]
014	nəki-r?u-y?i night-INCH-TH	1	[]	
	Night fell			[jo090]

015	miŋkəri how	qun INTS	miŋkəri=qun how=INTS	qonpa always	n-ə-jo?at-qen HAB-E-wind.blow-3sg	
Because the wind blew ceaselessly.						[na142:2]

016	ekke-t son-3plABS	iw-ninet say-3sgA.3pl("kakomej!) INTJ	Cəkwaŋaqaj personal.name.3sgABS	enmec akeady
	ya-ŋawtạn PF-wile-3sgS			<u>na•nto•len</u> " ne.out•3sg	
	He says to been born		Kakomejl Cəkw	vaŋaqaj is already ma	arried, a child's even [cy327]

orated S does not necessarily make a zero intransitive: the word Incor tewir?>qitərkən my clothes freeze (t-ewir?-ə-qit-ə-rkən 1sg-clothing-E-freeze-E-PROG) from example 055 is an example of possessor raising; the underlying S of

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the intransitive verb **qit**- *freeze* is the incorporated **ewir**?- *clothing*, but the possessor of the clothing (1sg) functions as S in the clause (see §12.2.3).

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The argument structure of verb stems with incorporated arguments is discussed in §§12.2-3.

11.2.2 Extended intransitive

An extended intransitive verb has the inflection of an intransitive, but also has another obligatory actant in an oblique case. Extended intransitives are rare in Chukchi, and it is difficult to find formal criteria to show that an argument is obligatory as even core arguments can typically be omitted where they are retrievable from context (see example 023). The verb stem it- *be (identity)* is definitely an extended intransitive, as a non-absolutive argument is always present on the surface (whereas S needs only be retrievable). The labile verb iwsay (to) is also like an extended intransitive/transitive, as it has an obligatory complement. This complement is, however, an entire unit of quoted speech, not a nominal argument (§11.4.3).

The copula verb it- be (§17.1.1) is structurally a two-place intransitive, as, apart from an S, this verb has an obligatory complement in the equative case. This forms an equational clause:

017	əngen that.3sqABS	jokwajo duck.3soABS	ipe truly	<u>?iy-u</u> wolf-EQU	ø	<u>n-it-qin</u> HAB·be·3sq	ଡଡ	
		was actually						[jo104]

Other copula verbs take locative complements, for instance n?el become:

018	rəl-y?a-t ənqen crawl-TH-3pl this joro-cəko sleepinq.chamber-INESS	ənjiw uncla.3sgABS <u>n?el-y?e-t</u> become-TH-3pl	ewət sö	ət caj aunt.3sgABS	/	
	The aunt and uncle	crawled in to	the sleep	oing chamber		[cy338]

However, this locative complement is only obligatory in the locative clause construction, and the same copula appears without a complement in existential clauses. Furthermore, the locative complement may be chosen from not only the entire range of locative cases, but also from locative adverbs, as in example 019:

019	1	tirk-ə-tir sun-E-REDUP.3sgABS	•		ye-mec-pintəqet-qeet-lin / PF-APPR-show.self-DIM-3sğ		
	SOLNYSHKA=?n sun=EMPH	n t [?] er-?ew so.much-ADV	ŋan DEICT	kitkit slightly	<u>yəryola-ta</u> high-ADV	<u>ye-n?et-lin</u> PF-become-3sg	1
	The sun came higher	up a tiny little b	it, the s	un just si	howed, becam		009]

Other verb stems may also be interpreted as extended intransitives; verbs formed from the stem **pkir**- *arrive* strongly imply a locative argument (which may be a nominal in the locative case or a deictic adverb). In rare instances where a locative

argument is not present, a nominal in locative case role always seems to be retrievable.

020	meere a famae paer o gjo remat					e-nwə-k LACE-LOC			
	They ha	ame.3sgABS d hardly ev			ESIDE	-ALL	l poin	n-ə-le-qin HAB-E-go-3sg t, [when] Cəkwa	naqaj was
	already heading homewards							[cy141]	
021	ŋenku there	j?ily-ə-k moon-E-LOC	-	y?i=?m H=EMPH	1	pəke arrive-		9 0-ү⁷е H-TH	
	There he arrived on the moon, he approached.						[cy185]		

In the preceding example pəkerəŋŋoy'e lit. *he began to arrive* refers to j'ilyək *at the moon*, the same as pəkiry'i *he arrived*. In the following examples there is no locative case complement of **pkir**-*arrive*, however in example 022 the target (place arrived at) is clearly the person addressed in the quoted speech. The lack of complement may just be due to the verb stem being in a converb form, as converbs rarely take any sort of overt argument (§13.4).

022	?eqe-njiv bad∙uncie-E	<u>pakir-inenu</u> approach∙CONSEQ	n-in-iw HAB-TR-	•	okokokaj! INTJ
	naqam . but	-req-iyət D-E-do.what?-1sğ	eqeluq because		o-1?at-eyət? al-DUR-2sg
		le having approa ting so much?"	ached [hii	m] said "	Okokoj, what are you doing that [cy011]

In example 023 no arguments are expressed. The following example comes from a section of a story presented in episodic dialogues, each of which starts with the anguished protagonist returning home from wandering the tundra to try to extract further details from his mother about the kidnapping of his sister during his babyhood.

neme	pəkir-y ⁷ i	
again	approach-TH	
Again I	he approached.	[ot040]

In context this clearly means *Again the boy approached home*. This can be considered ellipsis of a retrievable argument.

11.3 Transitive

023

Transitive verbs paradigmatically cross-reference two arguments, although the number of explicit pronominal cross-referencing affixes may range from two down to none according to position on the verbal paradigm (§10). The A and O syntactic roles correspond to ACTOR and UNDERGOER semantic macroroles. It is uncommon for both A and O to be expressed by free nominals in a single transitive clause; see 024 for a rare example, apparently triggered by the speaker momentarily losing track of what she was talking about.

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024	ennəcq-epə pass-ABL rkəle-1?et-qin	/ nikəŋut same.as <u>moo-qor</u>	1	<u>wolka-ta</u> wolf-ERG	
	<pre>-follow-DUR-3sg long the pass a</pre>	caravan-deer.3sg/ wolf followed		arness deer.	[ke083]

Example 025 has three different transitive verbs indicating a range of semantic roles of O (A is an agent in each case). The verb ropetjownin he butchered it has an O which has been directly acted upon by A. The verb ragitetjawnin he froze it is a causative which has an O indirectly acted upon, or acted upon so that a nonagentive process (freezing) could occur. The verb jonen he went to it has a locationa; O which is hardly affected by A at all. Note that the transitive motion verb j?o- is exceptional in Chukchi; most motion verbs are intransitive, and goal or location is indicated by the locative adverbs or nouns in oblique locational cases.

rə-qit-et-jəw-nin 025 rapet-jaw-nin egalpe tekicy-ə-t butcher-INTS-3sqA.3sgO CS-freeze-TH-INTS-3sgA.3sgO meat-E-3pIABS quickly uwi-kuk i?o-nen cook-pot.3sgABS go.to-3sgA.3sgO He butchered it quickly, froze the meat, [and] went to the pot. [cv255]

A causativised verb (see §11.5.1) has an O equivalent to the S of the uncausativised stem. Examples 026 and 027 show the stem yiul learn as an intransitive verb (yiulet-) and a transitive (-nayjulew- teach). The semantic role of S and O in these two examples is presumably the same: it belongs to the undergoer macrorole.

026	ləyen really	cinit self	Iəlep- watch-A		<u>yjul-et-qinet</u> E-Isam-TH-3pIS	
	All by th	emselves	watch	ing (othei	rs) they learn.	[ch26]
027	<u>ən-in</u> 3sg-3sgABS	<u>nenen</u> 5 baby-3pl		migkri how?	<u>n-ine-n-ə-yjul-ew-qinet</u> HAB-TR·CS-E-learn-CS-3plO	nəm-ə-twa-k? live-E-be-INF
	How doe	s she tead	ch her	children i	how to live?	[an043]
1	voorionee		ua haa	n etimuli	··· 0	

An experiencer A always has a stimulus O.

028	reqoka-1y-a polar.fox-SING-ERG	<u>take-c?-a-n</u> smell-NMZR-E-ABS	ya-jŋo-len PF-sniff-3sgO	
	The polar fox sn	lffed the bait.		[nb045.1]

11.3.1 Extended transitive

There are perhaps only two extended transitives, jl- give and the copula lag-/-ly-.

The most common extended transitive is the verb jl- give with a speech act participant (i.e. 1st or 2nd person) recipient. In such cases, the morphological crossreferencing of the verb is to A:DONOR and O:RECIPIENT, but the nominals encode A:DONOR (ergative case) and O:CIFT (absolutive case). Recipients are typically not expressed as nominals within the clause, but where they are they are put in the allative case.

Char	oter 11		VALENCY		207.
jl- g					
	A:DONOR 3p				
	O:RECIPIENT	ſ (verbal c	ross-reference) <i>1pl</i>		
	O:GIFT (abso	olutive cas	e nominal) <i>Iollies</i>		
029	<u>ne-jəl-mək</u>	ətr?ec	kante-t		
	INV-give-1plO	only	Iollies-3pIABS	• _	· 1
	They just ga	ve us Iolli	es.		[nb029.6]

This does not occur when both the recipient and the gift are in the third person.

The following example comes from a section of a text in which a wolf is speaking to a boy. All arguments are 3sg, so it could be argued that this has the same argument frame as example 029 above, but substitution tests show it to have O agreement with the gift.

030	enmec already	waj DEICT	q-ə-taq?a-t?o INT-E-food-PAR	•	рос?а-qојŋ-ерә arm-under-ABL
	<u>er?e-mul</u>	l	<u>jəlnin</u>	q-ə-taq ⁹ -o-ye	= ⁷ m
	boil-blood.3	sgABS	give-3sgA.3sgO	INT-E-food-CON	SUME-TH=EMPH
	"In the n	neantin	ne you can eat	this food", fro	m under his arm he gave him
	blood pu	dding,	"Eat the food	•	[jo031]

The following example shows the transitive verb najalqin give, 3plA.3sgO with O agreeing with the number of the gift, not the recipient.

031 gut-a-cak ənr⁹aq ənden n-ə-tci-tku-jw-ə-qin 1 DEM.3sgABS HAB-E-cut iTER-COLL-E-3sg QUANT-E-ANpl.ERG then / ləyen kolpasa pcacam-ə-jŋ-ə-n <u>yamya-taqo</u> sausage-E-AUG-E-ABS EMPH-food.3sqABS sausage really yamya-ramkəl?-etə n-ə-jəl-qin HAB-E-give-3sg EMPH-guest-ALL Others now cut the prerem-sausage, they only gave [this] special food to special

guests. [ke279]

The three place copula lan-/-ly- has the syntactic structure of an extended transitive. This verb encodes a regular A and O (with cross-referencing relating to case marking in the usual manner for a transitive), and also requires an equative case complement.

032	qəmel=?m so=EMPH	5	remk-ə-n folk-E-3sgABS	əngin thus	n7-ə-qaa-nm-aa-rkən COND-E-reindəer-kill-TH-PROG
	<u>wil-u</u>	nen?-ə-ly-	a-rkeet	/ []	
	price-EQU	INV.COND-E	COP-E-3plPROG		
	Ca then a	and a would	d ha abla ta c	laughtar re	indoor they would have then

So then people would be able to slaughter reindeer, they would have them for [he114] trade ...

This verb is also used as an auxiliary, in which function it takes two nominal arguments and requires a verb base or converb complement. The three place copula is discussed in §17.1.2.

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11.4 Labile

Labile (also known as ambitransitive) verbs function as both transitives and intransitives. The argument filling the S slot in intransitive function has the same semantic role as the argument in either the A or the O syntactic role in corresponding transitives. Thus, there are two types of labile verbs, S=A labiles and S=O labiles. As established in §11.2, there are two kinds of S, Actor-S (S_a) and Undergoer-S (S_a). Labiles are formed such that S_a corresponds to A and S_a corresponds to O. These are termed S=A labiles and S=O labiles respectively.

The syntactic relationship between transitive and intransitive manifestations of labile verbs is verb similar to the syntactic relationship between intransitives and transitives derived by means of the r-/-n- transitiviser; $A=S_a$ labiles are like applicatives and $O=S_o$ labiles are like causatives (§11.5).

11.4.1 S=A type

The S=A type of labile is most common in Chukchi.

kəlyet- harness (A/S:actor O:undergoer)

INTF 033	KANSITIVE qora-yərke-plətko-y?; reindeer-catch-finish-TH-3pl	a-t /	ləyen really	ewət so		
	akwat-ə-myo-y?a-t leave-E-INCH-TH-3pl					
	They finished catchin harnessing.	g reinde	er, sträigh	it away	they started leavi	ing, he started [cy127]
TRA 034	NSITIVE rə-winew-ə-tku-nin CS-train-E-ITER-3sgA.3sgO		then	•	harness-3sgA.3sgO	
	He trained it some me	ore, and	then harn	essed it		[cy151]
yala	a- pass (S/A:actor O:un	dergoer=	=locative)			
INTE	RANSITIVE					
035	ŋəlanŋəlat-cəko-jpə flame-INESS-ABL	ləyen really	<u>yala-y?e</u> pass-TH	neni thithe		
	He passed through th	e flame [to get] the	re.		[cy195]
TRA	NSITIVE					
036	nutkete layen t	-	nraŋ-qac= ight-SIDE=EN	-	<u>'era-yala-nenat</u> allop-pass-3sgA.3plO	
			w-nenat d-3sgA.3plO			
	He came through her another encampment				passed them (and	came) to [cy102]
	E that this example incy changing derivation			ound, b	ut that compour	nding is not a

The following example has a beneficiary undergoer:

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taraŋ- <i>bull</i>	d house (for)			
	•=	<u>taran-y?a-t=?m</u> build.house-TH-3pIS=EI built the house	мрн	[cy301]
	e-w?e-t=?m / amp-TH-3pl=EMPH	<u>taray-nena;≠?m</u> build.house-3sgA.3plO	=EMPH	
wood-E-	n-ejmew-jəw-ə-nine CS-approach-INTS-E-3sg	A.3plO≃EMPH		
			-	n firewood [ot090]
undergoer example:		ource, can also b	elong to the A=	speriencer and the S labile type, for
INTRANSITI 039 <u>walon</u> understa	VE <u>n-γ[?]e</u> ?	•		
Do you	u understand?			[ka24]
TRANSITIVE 040 luut suddenhy Sudde	na-walom-y?a-r	1		[ke018]
11.4.2 S	=0 type			
S=O labiles	are rare. Example:	s include mle brea	k and yr?o be bo	rn, give birth to.
INTRANSITI			! !	
	n-ena-ponge-qen HAB-TR-block-3sgO blocked the spearsha	-	<u>n-ə-mle-qin</u> HAB-E-break-3sgS	pojy-ə-n spear-E-3sgABS <i>[ot109]</i>
FRANSITIVE 142 m-ə-m	-			[
•	t to break it.			[na122:3]
11.4.3 E	xtended labile			
An extende	d labile is a verb	that can functio	n as an extende	d intransitive or
				of ic the york in.

extended transitive. The only verb of this type that I am aware of is the verb iwsay. It is an S=A labile, where A/S is the speaker and O is the addressee. The extra argument required by this verb is an entire direct quote. This slot can not be filled by a specially case-marked nominal.

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Ext 043	ENDED I anjiw-o uncle-DIA e ⁷ ejl INTJ	qej A.3sgABS Hi	<u>n-iw-qin</u>	ətcaj-qaj-ə-na aunt-DIM-E-ALL ŋutku here	q-ə-tkik-wi INT-E-spend.night-TH	
		sald "	Stay the night at	your aunties'* *O	-ho!, yes, stay the nig	ht here" [cy027]
Ехт	ENDED 7	RANSI	TIVE .			

044 [...] tan-gonpə əngen ?ege-njiw-e n-in-iw-qin INTS-always DEM.3soABS bad-uncle-ERG HAB-TR-say-3sqA "nalwil?-etə q-ə-lqət-yi nelwil?-ə-k q-ə-twa-rken" herd-ALL INT-E-set.off-TH herd-E-LOC INT-E-be-PROG ... the bad uncle always said to that one, "Go to the herd, be at the herd!". [cy002]

11.5 Transitivity-increasing derivations

Chukchi has a prefix **r**-/-**n**- which serves to increase the valency from intransitive to transitive. This prefix is usually accompanied by the suffix -ew or -et, which are allomorphs with mixed grammatical and lexical conditioning (§14.3). Many other verbs have either the -ew or the -et suffix; when the **r**-/-**n**- prefix combines with an intransitive verb stem which already has one of these suffixes, the suffix is generally changed to the other one, e.g.

INTRANSITIVE -et and TRANSITIVE r-/-n-___-ew

045	ujne NEG.EXI	ya-lye-nm-	•		əmə	ləyen	jara-ŋə	
	NEG.EAI	PF-INTS-kill-E-	11 CK-IN 12-C-3	pi	and	really	house-3sgABS	
	ye-lyi- <u>cir</u>	<u>mir?-et</u> -lin	əməl?o	ləyen	ye- <u>n</u>	-cimir?-e	<u>w</u> ·jəw·linet	
	PF-INTS-bri	eak-TH-3sg	all.3sgABS	really	PF-CS	-break-TH-I	NTS-3pl	
	They are	no longer, [they] killed	them a.	ll, even	the hous	e[s] broke, [the	y]
	smashed	l them all up).					[cy440]

This is not, however, without exception; tampew- be lost has the causative ratemnew-l-ntamnew- lose.

The r- -n- alternation occurs with almost exclusively with this verbal prefix (there are a handful of exceptions, all verbs; §3.5.1). In a discussion of the closely related Alutor language Koptevskaja-Tamm and Muravyova (1993:291-292) claim that this alternation in the causative prefix originates from a pair of causative prefixes used in two different grammatical environments which (coincidentally) correspond to phonological environments. Thus, one causative prefix was hypothesised to occur when the A has higher animacy than the O (what I call DIRECT ALIGNMENT; §10.2.2), and the other when the A had lower animacy (INVERSE ALIGNMENT; §10.2.2). Within the non-future active verbal paradigm the direct alignment forms tend to be unprefixed, whereas the inverse alignment forms are prefixed. Thus Koptevskaja-Tamm and Muravyova suggest that speakers reanalysed the contrast between the two causative forms to be the result of Chapter 11

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phonological conditions rather than grammatical. This account is ingenious; the evidence of alignment marking in Koryako-Chukotian languages suggests that grammatical inversion is synchronically a less important phenomenon than it once was, so the proposed reanalysis seems to follow general tendencies of the language. Both causatives and inverse alignment are semantically linked to the construal of agency relations, so it is not typologically unlikely that a causative could be fused with markers of inverse/direct alignment in the way suggested.

It certainly seems likely that the r-/-n- alternation did appear as the result of some morphological change rather than, say, the collapse of a phoneme (which is extremely unlikely as the alternation is attested nowhere else in the language except for in this morpheme). However, the particular account discussed here is open to queries. For instance, while it is true that in the contemporary language rand -n- are distributed the same as non-prefixed and prefixed A forms respectively, this only occurs in the non-future indicative mood; all future and non-indicative forms are prefixed irrespective of alignment.

11.5.1 Causative r-/-n-

- . -

The Chukchi causative functions to make a transitive verb out of an intransitive. The S of the intransitive verb corresponds to O of the transitive verb, and a new argument functions in the A role marking the *causer*. Intransitive verbs which can be causativised are always of the S₀ type, i.e. the subject of the intransitive verb has the macrorole UNDERGOER, e.g. the causative **-npeqetaw**-*knock down* is formed from the intransitive verb peqet-*collapse*.

046	ləyen really	əngin thus	wetca-ta stand-VBase	qeynew-nin=?m shoot-3sgA.3sgO=EMPH
		•peqet-aw		LKA
	INTS-E-C	S-fall-CS-3sg	JA.3sgO wol	1
	Simply	r so, stand	ling up he s	hot at the wolf, and knocked him right down.
				[ke097]

Example 047 shows the causative -n-təmŋew vt (caus) *lose*, which is derived from the intransitive verb təmŋew vi *be lost, get lost.*

047	ənk?am [#] and	qora-yənr-et-ə-1?-a reindeer-guard-TH-E-PCI		ləyen=?m really=EMPH	ənnen one
	qora-ŋə reindeer-3sgABS	<u>lon-a-n-tamnew-a</u> NEG-E-CS-be.lost-NEG	n-ə-nt-ə-qin HAB-E-AUX-E-3sg	1	
	n-ine-nt-ə-mu HAB-TR-AUX-E-1p				
	And the herde	[he066]			

Causative cannot be formed from transitives in Chukchi (in this Chukchi contrasts to the closely related Alutor language; Koptjevskaja-Tamm and Muravyova 1993:293).

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While the following example seems to be a causative of the transitive **pela**- *leave*, there is also a derived 'anticausative' form **pela**-t- *remain* (§11.7.2); the causative seems to have been formed on the basis of this intransitive stem.

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048	ənqorə then		awrena ext.year		eme jain			γə <mark>rγən</mark> name.3sgABS	i	
	ənr?o then	qol QUANT.3sgABS	cowqoo sovxoz-Al		jəl-n give-3	iin IsgA.3sg(~	e lwəl ırd.3sgABS	[lən	1#]
	t?er-kin several-RE		pela-w-ne leave-CS-3sg	_	=EMPH					
	onraq then	ənqen DEM.3sgABS	amŋəroo eight-ORD	t∙qaw	, 1	emel further		n?el-y?i become-TH	1	[]
		the next year Sovxoz, he le	•		-			-	e a he	erd to [he041]

It is, however, unclear in this example how ropelaw- (a causative of an anticausative) differs in meaning from underived pela-.

There are rare instances of causatives being formed from labile verbs. This would usually be redundant, since a labile verb can be transitive without any transitivising derivations. However, while causative is an $S_{a} \rightarrow O$ derivation, it occasionally can be applied to an $S_{a}=A$ labile. This is unusual, as it has an intransitive subject acting in derivation as an S_{a} , and in another as an S_{a} .

The one clear example I have is from the verb walom- *understand*. This verb is a S=A labile, with an experiencer S (as in example 049) or A (example 050):

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049		valom-y? iderstand-T		
	Do you rea	lly unde	erstand? [or 'Do you really hear?']	[ka26]
TRA	NSITIVE			
050	t-ə-walom-	γ²a∙n	kawrətk-ə-n	
	1sg-E-hear-TH	-3sg	footstep-E-3sgABS	

However, a causative can also be made from this verb, in which case the stem is treated like an S_0 intransitive:

CAUSATIVE

I heard the footsteps

051 yəmnan t-ə-n-walom-at-ə-nat ənpənacy-ə-t 1sg.ERG 1sgA-E-CS-understand-TH-E-3plO old.man-E-3plABS I informed the old men ['caused the old men to hear/understand']. [nb062.1]

Semantic role assignment of verbs is generally lexical, referring to a prototypical situation, and not subject to pragmatic influences. Intentional collapsing or intentional getting lost do not change the derivational possibilities of the word (the forms shown in examples 046-047). However, the subject of walom hear/understand seems to be something like an actor and something like an undergoer, so that a zero-derivation transitivisation produces an S=A labile, yet

causativisation (an S=0 process) is also possible. At present I have no further data on this, but it seems likely that other labile verbs with an experiencer S might act the same way.

11.5.2 Applicative (transitivity-increasing type)

This is another function of the transitiviser morpheme r-/-n- which occurs with some intransitive verb stems. A causative makes a transitive verb where S=O and an A is added, while an applicative has S=A and adds an O. Note that there is another applicative which acts on transitive verbs to exchange an O and an oblique argument (see §11.6).

Example 052 shows the applicative derivation of the intransitive verb mixciret *work*; the O of the applicativised verb is the thing acted upon or done by the workers (A):

052	ujŋe≂?m	a-dokto	r-ka	teŋ-em-cinit	1	
	NEG.EXI=EMPH	PRIV-docto	r-PRIV	EMPH-REST-self		
	n-ə-n-miycir-e	ew∙qinet	jam-a	-c?enut		
	HAB-E-APPL-work	•TH-3pl	REST-	E-something.3sgABS		
	Without a doctor, all by themselves they did everything necessary.					[ch01]

Examples 053 and 054 show the intransitive verb wetyaw *speak* applicativised to form a transitive verb newtyaat- (*ra-/-n-wetyaw-at-) *speak to*.

053	qərəm	ləyen	XOROSHLJ	<u>?ən-ə-n-wetya-at-y?e-n</u>	
	NEG	really	good	3A.INT-E-APPL-speak-TH-TH-3sgO	
	They de	on't speak	to him very	nicely.	[cy034]
054	cama	<u>n-ena-ly</u>	<u>e-n-wetya-a</u>	<u>t-jəw-qen</u>	
	and	HAB-TR-IN	ITS-APPL-speak	-TH-INTS-3so	
	She als	o spoke to	him for a lo	ong time.	(jo015)

Transitivising applicatives and S=A labile verbs have a very similar function, i.e. S of the intransitive verb corresponds to A of the transitive with an oblique argument from the intransitive clause corresponding to $O(\frac{1}{2}, \frac{1}{2})$ transitive. The S=A labiles are very common, whereas the morphological "oplicatives seems to occur only with a restricted set of verbs.

11.6 Transitivity-reducing derivations

The prefix ine- carries out applicative and antipassive transitivity-reducing functions; which function it carries out depends on the verb stem, which can thus be subclassified as ANTIPASSIVISING and APPLICATIVISING. The suffix -tku is another antipassive, but which also has iterative meaning (it does not make applicatives).

Some processes of incorporation in Chukchi share many syntactic features with valency changing devices such as antipassive and applicative. As discussed below, the **ine**- prefix on a transitive verb stem has one of two effects, antipassive or

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applicative, and the choice of antipassive or applicative is determined lexically (i.e. by a conventional grouping into lexical classes). These lexical classes are distinguished in the same way with processes of incorporation. Verbs which become antipassive with ine- also become intransitive when O is incorporated. Verbs which become applicative with ine- remain transitive when underlying O is incorporated, but another underlying oblique argument appears in the O slot (see below, §12.2.2).

Furthermore, there are verbs in Chukchi which show a similar sort of irregular behaviour (unexpected -et suffix) with incorporated Os and with antipassives, or with incorporated Os and with applicatives. These verbs once again can be grouped into lexical classes wherein morphological irregularities in one domain predict morphological irregularities in another (§14.3).

A further subtype of valency changing with incorporation is possessor raising. This is similar to the applicative-type incorporation described below, in that a non-core element is promoted to core. However, possessor raising occurs with both transitive and intransitive verb stems, and the occurrence of this structure is determined semantically (by sense) rather than by lexical classification. In possessor raising the S or O of a verb is incorporated, and the possessor of the S/O becomes the new S/O; i.e. where N_i is a nominal which is the semantic possessor of the nominal N_j , and V is the verb, the following two structures are propositionally equivalent:

structure 1: free nominals	Ni:POSSESSIVE Nj:ABSOLUTIVE V
structure 2: possessor raising	NI:ABSOLUTIVE Nj-V

Possessive nominals are discussed in §8.7.1. The pragmatics of possessor raising is discussed in §12.2.3. An instance of possessor raising is shown below with an intransitive verb:

055	qeluq=?m	<u>t-ewir?-ə-qit-ə-rkən</u>	qetəkwaa-rkən	ewir?-ə-n
	because=EMPH	1sgS-clothing-E-freeze-E-PROG	freeze-PROG	clothing-E-3sgABS
	Because my c	lothes freeze (lit. "I clothing	-freeze"], [my] clothe	es freeze [cy281]

11.6.1 Applicative (transitivity-rearranging type)

The **r**-/**n**- applicatives transitivise an intransitive stem, making S into A and turning an oblique argument into O. Chukchi also has an applicative formed with the **ine**- prefix (also used in person-number inflectional paradigms and for the antipassive) which occurs with transitive stems. This applicative relates to the original transitive stem so that the O of the original stem is an oblique and another oblique argument of the original stem is the O.

While both the underived stem and the applicativised form are transitive, this applicative derivation can be classified as a transitivity-reducing operation, since the resultant stem is less prototypically transitive. The applicative derivation takes a stem with an O which is semantically a patient, and replaces it with an O which is a location or recipient; locative and recipient objects are less effected than

patients, and thus the verb has lower transitivity even while retaining its basic bivalency (Hopper and Thompson 1980). Transitivity-lowering is a general feature of the morpheme ine- in Chukchi (see §10.2.2, §11.6.2; Comrie 1979, for other transitivity-lowering functions carried out by ine-). This applicative seems to be productive with any semantically appropriate verb, i.e a verb of manipulation with a strong locational/beneficiary component in its semantics (see examples 057, 058, 060 below). The pragmatic function of the ine- applicative is to mark that the location or recipient arguments are more topical than the semantic patient.

The following examples show the transitive verb jme- hang and the transitive applicativised root ena-jme- hang. Applicativisation causes a switch in the semantic roles indicated by O from patient to location. The demoted patient O may be expressed as an oblique in the instrumental case (see example 058):

A:agent O:patient (NO APPLICATIVE)

056	ətl?a-ta jəm <u>ə-ne aat</u> ewir?-ə-t mother-ERG hang-33gA.3plO tibul::sə:E-3plABS	
	Mother hung up the ciothes	[nb066.4]
A:ag 057	ent O:location (APPLICATIVE) ətl?a-ta <u>ena-ime-nen</u> nilγ-ə-n mother-ERG APPL-hang-3sgA.3sgO cord-E-3sgABS <i>Mother hung (something) on the cord.</i>	[nb066.5]
058	atl?a-ta <u>ena-jme-nen</u> tatal meniy-e mother-ERG APPL-hang-3sgA.3sgO door.3sgABS cloth-iNST Mother hung the door with cloth.	[nb006.6]
The	applicative of the verb pela- leave swaps O:patient for O:recipient.	
A:ag 059	ent O:patient (NO APPLICATIVE) <u>na-pela-γ²a-n</u> ləγen ənkə γe-cci-tku-jw-ə-lin INV-leave-TH-3sgO really there PF-cut-ITER-INTS-E-3sg	
	They left him there [he was] chopped to bits.	[cy370]
A:ag 060	ent O:recipient (APPLICATIVF) t-ena-pela-y?a-n new-miryən coqar-a 1sg-APPL-leave-TH-3sg FEM-grandparent.3sgABS bread-INST	
	Î left granny some bread.	[nb078.3]
Whe	n transitive verbs that can make applicatives incorporate their O, t	hey remain

transitive with the same oblique argument promoted to O function as would be if they were applicativised (see also §12.2.2.

APPLICATIVE

061 kojŋ-ə-n <u>ena-təjo-nen</u> uun?-e cup-E-3sgABS APPL-put-3sgA.3sgO berry-!NST She filled the cup with berries.

[nb076.1]

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062 tejucy-ə-n <u>taq?a-təjo-nen</u> sack-E-3sgABS supplies-put-3sgA.3sgO She put fööd for the road in the sack

[nb075.4]

The stem enarkelt-/enaccele- smear is an example of a stem which historically must have been an applicative. The thematic role of patient is encoded by an oblique nominal (ənqena-ta *this-INST*) and the role of location/target is in the absolutive (kilkil-ti *umbilical.cord-3plABS*), which is the pattern followed by applicatives. However, there is no word in the dialect of any of my teachers with the stem -rkele-/-ccele^{+VH} (i.e. a transitive stem without the element that looks like an applicative marker).

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063 ənqen n-ə-n-ləw-et-qin wəlq-u n-ə-tejk-ə-qin=?m this.3sgABS HAB-E-CAUS-burnt-CAUS-3sg coal-ESS HAB-E-make-E-3sg=EMPH ənqena-ta kilkil-ti <u>n-enaccele-qenat</u> this-INST umbilicus-3plABS HAB-[APPL+smear]-3pl This is burnt, made into coal, they smear the umbilical cord with this. [ch05]

11.6.2 Antipassives ine- and -tku

The antipassive is a derivation which intransitivises a transitive verbal stem, so that the S of the resultant intransitive is equivalent to the A of the transitive. There are two forms, a prefix **ine**- and a suffix -tku. The suffix fuses the antipassive function with the iterative (see also \$14.4.5).

The following example is the antipassive of a causative.

064 yəmo t-ena-n-walom-at-ə-k 1sgABS 1sg-AP-CS-hear-TH-E-1sg I made an announcement.

[nb062.2]

The causative makes a transitive verb from an intransitive with UNDERGOER S so as to make a transitive with S \rightarrow O. The antipassive derivation makes the verb intransitive once again, converting A of the causative to S. Thus the new intransitive verb has an S in ACTOR role (see also discussion to examples 049-051)¹.

Antipassives are most commonly used in deverbal derivations such as participles and other nominalisations. and 'canonical' antipassives in inflected verbs are very rare in spontaneous texts (example 064 is from elicitation). Some speakers will intermittently produce them under elicitation conditions, but others won't. Both antipassive markers (ine- and -tku) have a number of other functions which frequently overlap. In particular, the -tku suffix indicates iterativity; when it functions as an antipassive the iterative meaning is also present, although it may be an iterative marker without also antipassivising.

<u>Chaj</u>	pter 11 VALENCY	217.				
	lpassives are common and productive with non-finite verb iinalisations:	forms and				
065	finally collapse-E-TH no.sooner herd.3sgABS house-BESIDE-ALL fi	jənwet nally				
	pirq-ə-y²i / <u>penr-ə-tko</u> -l?-ə-n qora-jŋ-ə-n collapse-E-TH attack-E-AP.ITER-NMZR-E-3sgABS reindeer-AUG-E-3sgABS					
	Finally it collapsed, as soon as the herd was by the house, finally it that attacking reindeer.	collapsed, [cy228]				
066	keli-kel ena-ccet-joly-ə-tkən-ə-k book-REDUP.3sgABS AP-put-PLACE-E-TOPSIDE-E-LOC					
	The book is on the shelf	[Iv08]				
Alm	nost all examples of negated transitive verb stems are antipassivised	:				
067	waj cakeji ŋotqena-jyəmi ənŋe <u>ena-j?o</u> -ka hey sister.VOC! here-1sg.ABS NEG.HORT AP-approach-NEG					
	q-ə-ra-yt-ə-y?e! INT-E-home-go.to-E-PERF					
	Hey sister! I'm herel Don't approach, go home!	[ot134]				
068	ənk?am n-in-iw-qin "wetəqun ənŋe ŋaw-tomy-etə and HAB-TR-say-3sg INTS NEG.HORT woman-friend-ALL <u>ena-tw</u> -ə-ka" AP-teil.about-E-NEG					
	She said to him "Don't you tell your wife!"	[ke029]				
The few examples of antipassives on inflected verbs found in spontaneous (non- elicited) texts all have other unusual features. For example, the antipassivised						
	stem ena-wenaw- <i>train, tame</i> in 069 occurs four times in almost adjacent sentences (see Appendix), which suggests that it might be lexicalised rather than a					

069	?ire-remk-ə-k race-folk-E-LOC	pəkir-y?-i=?m antive∙PF+3sgS=EMPH	rəp-jo stake-PASS.PART	qora-ŋə reindeer-ABS		
	piri-nin / take-3sgA.3sgO	<u>ena-wenaw</u> -ə-myo AP-train-E-INCH-TH	o-γ ⁷ e ənkə there			
	He arrived in the racers' encampment, took the prize reindeer - he started training there. [cy143]					

In example 070 both ine- and -tku are present; this is unusual. Perhaps the -tku suffix is just acting as an iterative, and the ine- prefix is sole marker of antipassive:

070	<u>ëna-nm-ə-tko</u> -1?-ə-t	ajwe-kena-t	
	AP-kill-E-AP?.ITER-NMZR-E-3pl	yesterday-REL-3pIABS	
	They were the murderers	of the day before.	[cy421]

11.7 Low productivity valency changing devices

productive grammatical derivation:

Apart from the forms described above, there are a number of low productivity derivational suffixes which can change or rearrange valency, including a number of

¹ Note that the verb walom has an S which is usually treated as an ACTOR (see examples 39, 49).

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affixes with reciprocal meaning (§11.7.1) and an anticausative derivation (§11.7.2). There are no morphological reflexives; reflexive meaning is encoded syntactically (§11.7.3).

11.7.1 Reciprocals

Chukchi doesn't have any productive reciprocal markers. There are three forms which express reciprocal-like meanings.

The prefix pəl-, pəc- derives occasional verbs indicating that something is mutual. The stem pəcwetyaw is a verb stem meaning *converse* and a noun stem meaning *conversation*:

071 mail pac-wetyaw-mak 1pl.INT-MUTUAL-talk-1pl Let's have a talk!

[[0063]

Example 075 has the form pəl-teyjeŋ- mutual desire.

The suffix -cit is has a number of different lexical functions:

• Derives a large number of terms for competitions, e.g. yekencit- *complete in a race*.

072	yeken-cit-l?-e race-ADVERS-PCPL-ERG	na-tətlop-ə-n INV-open.door-3sg	joro-na sleeping.chamber-3s	gABS	
	The racer competitor	s opened the sleep	oing chamber.		`3]
• In	dicates some kind of it	erative or durati	ve meaning:		
073	nutku kale-tko-ra here inscribe-ITER-h		<u>i-cit</u> -iyəm ribe-ADVERS-1sg		·
	I wrote here in schoo	Ι.			[na140:5]
074		-	-k=?m pecka-l)=ÉMPH sand-LOC		
	<u>wey-a-tku-cit</u> -γ?i claw-E-USE-ADVERS-TH	•	γ-ə-k AINER-E-LOC		
	[They went] all aroun the sand, in the firep		finishing that s	he started s	cratching in [ke240]
• Re	ciprocal				
075	əməl?o remk-ə-n ail.3ABS folk-E-3šgABS		- cit-e re-ADVERS-Vbase	:::::: qin HAB-be-3sg	[]
	All the people were li	ving the way they	wanted	-	[he067]
The	suffix -wəly has the	purest reciproca	l meaning, but (only occurs	with a few
stem	is:		-	-	
076		acet-wəly-a / te-RECIP-VBASE	•	-	=ЕМРН
	like they were com				[he067]

112	pter	1	1

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It forms a lexicalised combination with 1?u see with the form 1?uuly (<* 1?u-waly) with meaning *meet* or *see each other*, but also having a special meaning *meet in competition*.

11.7.2 Anticausative

The anticausative is not a systematic or productive valency changing derivation. It is formed by the $-et^{-vH}$ suffix, the thematic suffix used in a wide range of other derivations (§14.3).

The transitive verb pela- has an unusual intransitive counterpart pelat-(*pela*VH-et*VH) in which the nominal in O role of the transitive becomes S of the intransitive.

077	a:	ətri new-?ətt?-ə-qej 3plABS woman-dog-E-DIM.3sgABS jara-k // house-LOC	ŋewəcqet woman.3sgABS	n-ə-twa-qenat HAB-E-be-3pl	1
	b:	pel-at-y?a-t // leave-ANTICAUS-TH-3pl			
		aker a: <i>There was the dog and</i> aker b: <i>They remained [behind</i>		re, at home.	[ke255-256]

11.7.3 Reflexive

Reflexive meaning can be indicated using a transitive verb with a third person O indicating a part of the A, for example:

078	yəmn-in	əwik	m-uwi-y?e-n	
	1sg-POSS.3sgABS	body.3sgABS	1sgINT-E-cook.meat-TH-3sg	
	I'll cook meat fo	or myself [lit.	"my body"].	[na128:5]

There do not seem to be any S=A labiles lexically encoding reflexive meaning in the manner of English 'wash', which means either 'wash somebody' (transitive) or 'wash oneself' (intransitive). The Chukchi verb ilyətew- wash is transitive only.

12

Verbal incorporation

12.1 Introduction

In its widest sense, *incorporation* is here used to refer to morphological processes in which two or more lexical stems can be included in a single word. It is easy to determine formally where this has occurred in Chukchi as the boundaries of a word are clearly demarked by the phonological phenomenon of vowel harmony (discussed in section §3.4.1). In all forms of incorporation there can be distinguished dependency relationships between the two stems, and in all cases the dependent element (argument or modifier) precedes the head in the morphological structure of the word. Processes of incorporation can be divided functionally into syntactic processes (*syntactic incorporation*), and lexical processes (*compounding*): see also the discussion on incorporation and compounding by nouns in §§9.4-5.

The first part of this chapter will examine the functional domain of incorporation, providing an account of the syntactic and pragmatic motivations for the use of incorporation (§12.1.1-2). Following this is a description of the formal aspects of incorporation by transitive (§12.2) and intransitive (§12.3) verbs. Verbal compounding (§12.4) has not been much reported in previous grammatical description of Chukchi although it is a common phenomenon in the language. Due to their discourse functions (e.g. indicating a nameworthy event with generic object), compounds and stems with incorporation are frequently lexicalised (§12.5), and also transparently provide sources of grammaticalisation of stems into derivational morphology (§12.6).

There are four structural subtypes of syntactic noun incorporation by verbs. Syntactic incorporation leads to a rearrangement of valency; incorporation by an intransitive stem can produce a zero place (i) or one place (ii) verb, and incorporation by a transitive stem can produce one place (iii) or two place (iv) verbs.

(i) noun (S) + intransitive verb \rightarrow zero intransitive (no S argument)

(ii) noun (S) + intransitive verb \rightarrow intransitive verb (new S argument)

(iii) noun (O) + transitive verb \rightarrow intransitive verb (A \rightarrow S)

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(iv) noun (O) + transitive verb \rightarrow transitive verb (new O argument)

The two stems in a lexical compound are tightly bound semantically to refer to a single action or entity, and there are similar semantic effects with syntactic incorporation. On the grammaticalisation cline it can be difficult to distinguish syntactic incorporation from lexical compounding (some theoretically interesting examples are discussed in §12.4).

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12.1.1 Discourse function of incorporation

The widest generalisation about incorporation is that incorporation is used when the event is of greater interest than its participants. From a syntactic point of view, incorporation occurs in Chukchi as a way of resolving tensions between the syntactic functions of discourse elements and their pragmatic statuses. The absolutive case role has a privileged position in the language as the way of presenting salient/topical information. Only in the absolutive can nominal constituents be represented by syntactic phrases (and thus have the greatest grammatical possibilities for combining with modifiers; §9), and absolutive case nominals have greater grammatical specification, marking more grammatical categories than other nominals. However, the underlying undergoer nominal (O) of a transitive verb stem often has low discourse salience; there is an anthropocentric bias towards human actors (syntactic A) as protagonists in narratives. This conflicts the pragmatic function of the absolutive case (the case for O/S). which is to accer to arguments of high discourse salience, high animacy, specificity, etc. This tension can be resolved by incorporation of the O into the verb, thus changing the syntactic role of the A nominal to S.

EXAMPLES. Low topicality can be a function of low specificity or low individuation. Generic nominals are extremely unlikely to be topics. In the following example the stem **qora**- occurs twice: once incorporated and once unincorporated with the same transitive verb stem **tom**-*l*-**nm**- *kill*, which thus provides a syntactic minimal pair:

001	tag-amənan Cəkwayaqaj INTS-alone personal.name.3sgABS			<u>ya-gora-nm-at-len</u> // PF-reindeer-kill-VB-3sg		
	<u>qora-na</u> reindeer-3sgABS	<u>təm-nen</u> kill-3sgA.3sgO	1	ŋely-ə-n hide∙E•3sgABS	jən-nen take.off-3sgA.3sgO	
	Cəkwayaqaj a hide.	all by himself s	lauį	ghtered reinde	er. He killed a deer, to 	ok off its [cy252-253]

In the first sentence the salient participant is the person Cəkwaŋaqaj; the objects of his killing are non-specific, non-salient. In the second phrase the word gelyən *hide* is introduced as a topic. This hide is very salient, as it is about to be magically transformed into J?aŋalyəjŋən the magic Rawhide Woman. As this particular hide becomes topical, the original possessor of the hide (the particular reindeer) becomes conceptually specific, and thus salient enough to be expressed as a free absolutive case nominal qoraŋa tomnen *he killed the reindeer*. Examples with the stem qora-nm-at- *slaughter reindeer* can be misleading, as this stem refers to something which, in Chukchi culture, is a unitary activity and is exceptionally nameworthy as a focus of ritual activity and the high point of a day. The verb is translated here as *slaughter* rather than *kill* as this incorporation is lexicalised to the extent that it only refers to reindeer-killing in its traditional Chukchi cultural context, i.e. killing of a domestic meat reindeer with a knife in the prescribed manner with all attendant ritual. The thematic suffix -et--at is an additional marker that this incorporation is lexicalised (§14.3).

In the following example the activity of chasing and catching is more salient than the individual reindeer chased and caught (this is generally the case in any narrative about people and what they did):

002	eryatək next.day	?era-mүo-ү?a-t // 'ace-INCH-TH-3pl
	<u>ya-qora-pe</u>	<u>ir-at-len</u> Cəkwaŋaqaj remk-ə-k //
	PF-reindeer-ch	se-TH-3sgS personal.name.3sg.\BS folk-E-LOC
	ŋelwəl herd.3sgABS	rə-pkir-en-nin <u>qora-yərke-myo-y²a-t</u> CS-arrive-CS-3sgA.3sgO reindeer-catch-INCH-TH-3pl
		y they started racing. Cakwayaqaj went after the reindeer in the presence of the presence of the reindeer.

[cy116-118]

Both instances of the noun **qora**- *reindeer* in example 002 are incorporated; both times the noun has generic reference, and both times the verb refers to a culturally significant activity which is more salient than the particular undergoers. In the next part of the narrative a particular reindeer becomes salient, as the human protagonist of the story gets involved in a battle of wills with an uncooperative harness animal:

003	neme again	ənin 3sg-POS		/ <u>wen-qora-jŋ-ə-n</u> hamess-deer-AUG-E-ABS			kən'u-nin :atch-3sgA.3sgO
	neme again	ləyen really	<pre>?emet-jaw-nin drag-COLL-3sgA.3sgO</pre>	ŋanqen thither	ŋan DEICT	ləyen really	
	Again . thither		t his harness reind	eer himself,	again s.	he drag	ged him off [cy119]

This reindeer is specific and individuated and it is expressed as a free argument. Furthermore, Wenqorajnan here is in effect a proper name; the reindeer here referred to is a specific and individuated deer with various magical properties (the augmentative suffix is commonly a formative of proper names; the notion of *big* is normally expressed by an incorporated adjective, e.g. majnawenqor a *big harness deer*).

12.2 Incorporation by transitives

Two lexical groups of transitive verbs can be established by their behaviour with the **ine**- prefix: *antipassivising* verbs and *applicativising* verbs. These two groups are also discussed in section §§11.5-6 with reference to valency changing. As

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already noted, these two groups also show systematically similar behaviour with O incorporation. Antipassivising verbs form intransitives with O incorporation, whereas noun incorporation causes applicativising verbs to have a different argument structure (an oblique argument becomes O), but remain transitive:

FIGURE 12.1. Antipassivising and applicativising verbs with incorporation.

	Group I ANTIPASSIVISING	Group 2 APPLICATIVISING
ine- prefix	antipassive $(A \rightarrow S, O \rightarrow \emptyset)$	app!'cative (Oblique \rightarrow O)
incorporated O	intransitive verb $(A \rightarrow S)$	transitive verb (Oblique \rightarrow O)

However, these groups are not immutable. Some verbs of Group 1 can form ad hoc applicatives through beneficiary raising (§12.2.2).

A further type of incorporation by transitives which retains the same absolute number of arguments with O incorporation is commonly referred to as possessor raising. In this structure the possessor from a POSSESSOR (GENITIVE) + POSSESSED (ABSOLUTIVE) noun phrase becomes the O when the possessed noun is incorporated. This valency rearranging phenomenon can also occur with purely intransitive stems (see §12.2.3 below).

12.2.1 Antipassivising verbs

Incorporation of an O nominal by transitive verb stems of this type makes an intransitive root. The following examples show the transitive verb yacci/yarki collect with a free O (004) and an incorporated nominal (005).

004	• -	<u>-ə-yəcci-ccən</u> sgA-E-collect-PROG	<u>ləy-oon?-ə-ly</u> AUTH-berry-E-S				
	I collected sh	iksha berries				[r	na079:2)
Inco 005	rporated qora-yərke-y	?e in?e=?m	jara-ytə	vokon o	ant w?i	[]	
03	reindeer-collect-T		.	γekeg∙e drive•ADV	qət-y?i set.off-TH	[]	

O incorporation leading to an intransitive root is very commonly used when referring to conceptually unitary and nameworthy cultural activities (see Mithun 1984, 1996). In the situation being described in 005, nomads frequently spend much of their time collecting together reindeer for harnessing or just to manage their spread across the tundra. The individual reindeer involved are not grammatically specified. In contrast, while berry-picking is also a unitary type of activity, in example 004 discourse is focussed on the particular kind of berry picking that was going on, so while the word layoon?alyan is used generically, it is salient (note that the although the superordinate term for berry is oon?alyan, the lay(i)- prefixed form is the lexicalised name for a specific variety).

Cha	pter 12	V	ERBAL INCORPORAT		225.
Exa	mple 006 show	s another inst	ance of a non-sp	ecific noun being incorporate	ed.
006	jokwa-jŋ-a duck-AUG-ERG	iw-nin say-3sgA.3sgO	ir?-ə-t clothing-E-3ptABS	mən-ə-lpuur ² et-ə-net 1piiNT-E-swap-E-3pi	
	katege va	m amnon	ena m.a.coiu		

Kateqe temporaniy	yəm 1sgABS	amnoŋ-epə tundra-ABL	m-ə-cejw-ə-tku-y?e-k≕?m lsgINT-E-roam-E-ITER-TH-1sg=EMPH
yət≃?m 2sgABS=EM		<u>nn-ə-Ilep-yi</u> NT-fish-E-watch-TH	
The duck watch fis		et's swap clothe	s for a while, I'll roam about the tundra, you [10064]

The situation is from a folktale: a magical duck is proposing to a magical wolf that they exchange skins. The incorporated noun gennellepyi you watch fish is a slightly poetic way of suggesting to the wolf that he join the amphibious world; there is no mention of any particular fish before or after this.

[10064]

Example 007 shows incorporation motivated solely by the fact that the underlying O is non-specific/uninteresting, as there is no evidence that *closing the door* is a nameworthy activity in Chukchi culture. In the story where this sentence was used there was no previous mention of the incorporated noun tatl- door, nor was there any mention of it subsequently.

007	tətl-ə-nnəmat-y?a-t	
	door-E-close-TH-3pl	
	They closed the door	[cy395]

The sentence total nennamaty? an they closed the door would imply that the door had discourse salience, and it would be expected that there was something more said about the door.

If O incorporation tends to be used to denote an action on an object as a unitary and nameworthy event, it is unsurprising that complex stems formed through Oincorporation are frequently lexicalised (further discussed §12.5). Examples 008 and 009 show the complex root new-a-nju-cqiw-, which comes from the stems new- woman, roju-/-nju- stand watch by night over [smth] and the purposive -cqiw. The complex root new-ə-nju-cqiw- has the meaning, unpredictable from the syntactic point of view, of be a suitor. This word can be compared to qaa-wjatunharness reindeer (example 009), which is the expected meaning for a word formed from a combination of gaa- reindeer and wjat unharness.

008	wenqora-	iw-nin say-3sgA.3sgO	1	Cəkwaŋaqaj personal.name.3sgABS	1
	eryatək tomorrow	<u>nju-cqik</u> -wi I-be.on.watch-PURP	TH		
	The big h yourself a	said to him: C	okwa	aŋaqaj , tomorrow yu	ou go off to find [cy162]

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009	j! n-ə- <u>ŋew-ə-nju-cqiw</u> -iyət e HAB-E-wife-E-be.on.watch-PURP-2sg INTJ q-ə- <u>gaa-wjat</u> -ye=?m / [] IN ^{T F} -reindeer-unhamess-TH=EMPH 'ou're looking for a wife! Well unharness your reindeer! [cy190]

12.2.2 Applicativising verbs

As described above (§12.2), there are two groups of transitive verbs distinguished by their behaviour with the ine- transitivity reducing prefix and incorporation. The applicativising verb stems preserve absolute transitivity (i.e. number of core arguments cross-referenced) with incorporation of a nominal object. Thus only semantic transitivity is reduced; there is a change in case frames from a highly transitive one (O representing a highly affected undergoer role) to semewhat less transitive one (O representing a less affected role such as beneficiary), e.g.

010 rewik-w?e-t=?m / ta-ra-y-nenat=?m make.camp-TH-3pl=EMPH MAKE-house-MAKE-3sgA.3plO=EMPH <u>utt-a-n-ejmew-jaw-a-ninet</u>=?m wood-E-CAUS-approach-COLL-E-3sgA.3plO=EMPH They made camp, he put up the house for them, brought them wood. [ot090]

The causative -nejmew- *bring* has an incorporated patient, but is still syntactically transitive, with the beneficiary in the O role. This can be considered reduction in semantic transitivity, as, in the terms of Hopper and Thomson (1980), a beneficiary is a less prototypically transitive undergoer than a patient.

This is a rare process, but can be productively applied to what would otherwise be antipassivising incorporations:

011	алә	ləyen	n·ena- <u>qora</u>	<u>nm</u> -:	ə-qen	ŋew?en	1	е	ləyen=?m		
	SO	really	HAB-TR-reindee	er•kill•E	E-3sg	wife.ABS		INTJ	really=EMPH		
	ənkə	n-ə-qan	ne-twa-qen	1	cinit	ation	n-u	wi-qin	1		
	there	HAB-E-ea	I-RESULT-3sg		self	3sg.ABS	HAB	-cook-3sg			
	kənwet	epte	ya-ro-ŋŋo	-len							
	finally	also	PERF-eat-IN	ICH-3	sgO						
	Well, he	Well, he slaughtered reindeer for the wife, there he ate, she herself cooked it,									
			started to eat						[ke0		

Compare n-ena:qora-nm:a-qen (HAB-TR-reindeer-kill-E-3sg) he killed reindeer for her in the above to the intransitive ya-qora-nm-at-len (PF-reindeer-kill-TH-3sg) he killed reindeer in example 001.

The stem *tojo *put* is unusual in that it only occurs with (i) the applicative prefix ine-^{VH}, or (ii) an incorporated nominal argument. The destination of the 'putting' is marked as O, and the object manipulated is either incorporated or (with applicatives) oblique in the instrumental (see also §11.6.1).

Cha	pter 12	VERB	al Incorporation	227.
Арр	LICATIVE			
012	kojŋ-ə-n	ena-təjo-nen	uun?-e	
	cup-E-3sgABS	APPL-put-3sgA.3sgO	berry-INST	
	She filled th	e cup with berries.		[nb076.1]
INC	ORPORATED O			
013	tejucy-ə-n	taq?a-təjo-nen		
	sack-E-3sgABS	supplies-put-3sgA.3sg	0	
	She put food	l for the road in th	e sack	[nb075.4]

The morpheme tojo- is a suppletive form of the verb jo- *put*; the latter is used word initially and word internally in all contexts other than those given in (i-ii) above.

The jo- form of the stem even occurs with the ine- prefix where it is part of the transitive verb paradigm (§10.2.2). The two uses are contrasted in the following example:

014	anə n-ə-r?ejwet-qin so HAB-E-dismantie.house-3sgS				er-pətw-ə-jeŋkə erker-inside.layer-E-SL		
	<u>n-ena-ly-ena</u> HAB-APPL-INTS			tekic ү-е meat-INST	ceq-e something-INST	1	ləyen really
	wala-qaj knife-DIM.3sgAB	ənkə S there		<u>jo-qen</u> put-3sgO			
	Wall chadie	montled th	a house	under the	inner laver of hi	a kaal	ing (hara "

Well she dismantled the house, under the inner layer of his kerker (here, "baby suit") she filled [it] with meat, other stuff, she put a little knife there too. [jo013]

Note the two forms of *put* in the preceding example: the first instance of the verb has the applicativised stem ena-tajo- (the ine- prefix is usually doubled before the l_{Y} - intensifier prefix as in this example), whereas the unapplicativised form of the verb stem with ine- prefix (functions as a transitive marker in the habitual aspect) is ena-jo-. This is the only example of suppletion sensitive to the morphological parameters of applicativisation attested in the data.

12.2.3 Possessor raising

A possessed noun in the absolutive case can be incorporated without reduction of valency, with the possessor filling the S/O slot of the verb (intransitive verbs seem to have to be undergoer subject intransitives, i.e. S_o verbs, not S_a). This type of incorporation only occurs when the possessed noun is inalienably possessed. Note however that 'inalienable possession' is not otherwise indicated as a grammatical category in Chukchi; usually the inalienably possessed noun is a body part (see 019 for a possible exception). In Evans' (1996) terms raising of inalienable possessions is an instance of *syntactic apposition*; the incorporated noun and the possessor noun are in a part-whole relationship, so incorporation of the part does not change the valency. The following examples show this process occurring with transitive (examples 015-017) and intransitive (018) stems.

228.		VER	≀BS		Chapter 12
20552550 015 []	R RAISING, TR təm-nen kill-3sqA.3sqO	ANSITIVE VERB (po: ?inə=?m wolf.3sgABS=EMPH	sses /	sor ?inə <i>wolf</i> , possessed y pily-ə-lwi-nin=?m throat-E-cut-3sqA.3sqO=EMPH	pily- <i>throat</i>)
He k	cilled the wolf,	•		unoar	[kr151]

Example 016 shows a transitive verb stem yətka-mla- break legs, with the O role referring to the possessor of the incorporated noun leg (here zero pronominal, but absolutive gora-t reindeer could be added). Example 017 shows the same thing: the transitive verb root lawt-a-male- stroke the head has a zero pronominal O (Cəkwaŋaqaj, the name of the wife's husband and possessor of the body part in question. can be substituted).

016	cama and	ləyen really	n-ena- <u>yətk</u> HAB-TR-leq-bi		-	-	at			
	And sin	nply broke	their legs.						[ot136]	
017	luur suddenly	waj DEICT	ənqen DEM.3sgABS	neme again	i	[?]	pəker-ə-ı approach-E-	jijo-γ?a-t INCH∙TH•3pl		
	ewən INTS	new?en-e wile-ERG	néme again	n-ena-lav HAB-TR-hea			-	nəra-tkən leg-TOP-E-L(
	And so	they agair.	approache	d, and th	ere l	the wil	fe [of Cəkw	ayaqaj] is s	troking	

[his] head on her lap. [cy373] The following example shows an intransitive verb root rann-a-kwa horns get stuck

018	rak-wəry-ə-k=?m pierce-NMZR-E-LOC=EMPH	ya- <u>rənn-ə-kwa</u> -len PF-hom-E-be.stuck-3sgS	ənqen this.3sgABS
	ənan-jaale-ŋ qora-	ijð	
	SUPER-last-ADV reindee	r-3sgABS	
	In the hole the very las	t reindeer got its horn	caught

which has the possessor of the horns (i.e. gora-na reindeer) as S:

[cy419]

Occurrence of these two phenomena (syntactic apposition of incorporated PARTS with WHOLES in S/O role) is governed in texts by the same discourse conditions. A body part noun is incorporated by a transitive or intransitive verb without change of argument structure when the salient effect of the action is on the whole rather than the part. Note that this would predict that only So intransitives (i.e. where S is in an UNDERGOER semantic role) would be subject to part-whole apposition by incorporation, which seems to be the case with all the available data.

The following example is possessor raising from the intransitive stem tane-/-nnegrow.

019	okkoko!	Cəkwaŋaqaj	enmec	<u>y-ekwew-a-nŋe-jyat</u> i	
	LTNI	personal.name.3sgABS	already	PF-deer.type-E-grow-2sg	
	Oh-ho! Ca	okwanjaqaj you've alre	eady acqu	Ired a leftside harness deer!	[cy155]

The possessed noun ekwew- leftside harness deer is the least semantically plausible example of inalienable possession in my data. However, it could be argued that is the possessive relationship in example 019 is in fact a part-whole relationship which could be treated by speakers as inalienable. This is not so far Chapter 12

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fetched-reindeer are culturally extremely important to the tundra Chukchi, and reindeer terms are grammatically singled out in other parts of the language (e.g. they can be used as address terms, making them possible recipients of the high animate class of inflectional suffixes). Alternatively, it is possible that the restriction of possessor raising to noun in a relationship of inalienable possession is a chimera; the preponderance of examples which do have inalienable possession might be motivated by the discourse conditions which lead to the use of possessor raising. When a nominal argument underlyingly includes a possessor which is very much more topical than it is itself it may also be likely that these nominals are in a part-whole relationship.

12.3 Incorporation by intransitives

Syntactic incorporation (i.e. incorporation leading to a rearrangement of valency) by intransitive stems is rare but possible, leading to derived zero-intransitive stems (§11.2.1). Although it can be freely elicited, this morphosyntactic device is almost never used in texts. Example 020 is one of the few spontaneous instances that I have observed. It occurs in some quoted speech, when a father is haranguing his three lazy sons:

620	eqalpe quickly	ra-yt-ö-y?e home-golo-E-TH	ənqen that	?etkiij bad	ənjiw uncle	11		
	ekke-t son-3plABS	iw-ninet say-3sgA.3plO	"kakome INTJ	-	wanaqaj onal.name.3		enmec already	
	ya-ŋawtə: PF-be.mame		ya- <u>nan</u> PF-child-e	ana-nto- xit-3sgS	len //			
	turi∷?m 2pIABS=EMI		joro-cəko sleeping.cham	ber-INESS	ərikə there			
	ləyen wa-l?at-ə-l?-ə-tore!" realiy be-DUR-E-NMZR-E-2pl.ABS							
	Cəkwaya	uncle quickly qaj is already i	narried, a c	child's ev	en been l	orn. E	But you lot are	

always in the sleeping chamber, you're only ever there! [cy326-328]

In this speech the father is unfavourably comparing his sons to their step-brother Cakwagaqaj. The birth of Cakwagaqaj's son is one of the events which shows that Cokwanaqaj has been spending his time more profitably than his step-brothers. Syntactic incorporation here is motivated by the fact that the event of childbirth is of greater interest than the participant (note that the 3sgS suffix of the verb is dummy agreement demanded by the verb form; §11.2.1).

Other authors have also reported S-incorporation in Chukchi. Muravyova (1992) gives the following contrasting examples:

021 w?ey-ti inini-y?e-t grass-3pIABS appear-TH-SpIS The grass appeared

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231.

022 w?ej-inini-y?i

grass-appear-TH [It] grass-appeared.

peared. [Muravyova 1992:210, my glosses and transliteration]

As a syntactic phenomenon, S-incorporation is freely elicitable, but its nearabsence from spontaneously produced texts suggests that it is a marginal functional type. Subject of an intransitive verb is a discourse prominent position, and there are relatively few possible candidates for generic S. Example 022 shows S incorporation in a word describing a natural phenomenon. Such 'cognate subjects' are extremely rare; most natural phenomena are expressed by a verb or a verbalised noun, as in the following, rather than by a noun subject and verb.

NOUN STEM	VERB STEM
?əl?əl (stem ?əl-) 'snow' <i>n</i>	<pre>?əlet- 'to snow' vi (verbalised by -et suffix)</pre>
kətəjy- 'wind' <i>n</i>	kətəjyat- 'wind to blow' <i>vi</i>

S-incorporation is obligatory when the entire intransitive clause is incorporated as a modifier of something else, e.g.:

023 emc?acoka-tke-mely-ə-tanŋ-ə-t ermine-smell-fire-E-stranger-E-3plABS Musk-stinking westerners.

People of European origin (usually Russians or Americans) are melyətanŋət *lit.* 'fire strangers' (for reasons mentioned in §1.2), and emc?acoka-tke- 'smelling of ermine/musk' refers to the typical revulsion that older Chukchis feel at the smell of musk, an ingredient in many Western perfumes. Although this word is syntactically well-formed, it would normally raise a laugh, as much for the number of lexical morphemes it contains as for its subversive sentiments (§12.5.1).

Noun incorporation by intransitives resulting in an intransitive with unchanged argument structure is not nearly so uncommon. This is part of the phenomenon of part-whole syntactic apposition discussed in §12.2.3, which is applicable to transitive verb stems as well. In a situation where a body part is affected, but the affectedness of the possessor of the body part is more salient, then the possessor-whole goes into the prominent core nominal position marked by the absolutive case, and the possessed part is incorporated. For examples, see 018 and below:

024	lubt	<u>cən-tewla-r?o-y?e</u>	ənqen
•	suddekly	hom-shake-COLL-TH	DEM.3sgABS
	jaal-kei	n-enaga-jər?-ə-ken	cəmŋa-jŋ-ə-n
	first-REL-cargo-container-REL3sgABS		steer-AUG-E-3sgABS
	Sudden	ly that ໂລst big castra	ited bull load carrying randee: shook its horns[cy422]

Intransitive verbs can also incorporate nouns non-syntactic. By to form compounds (discussed in §12.4; see for example 034).

12.4 Verbal compounds

Incorporation of a verb by another verb stem makes a compound predicate with no change of valency from that of the stem verb. Only intransitive verb stems are incorporated, but they can be incorporated by both transitive and intransitive verbs. These compounded verb stems act as modifiers to the main verb. As in all other forms of morphological incorporation, the order of stems is structly MODIFIER \rightarrow HEAD.

The most common verb stems involved as the heads of verb-verb compounds are motion verbs. Motion verbs commonly incorporate verb stems indicating manner or purpose of motion. This occurs with intransitive, labile, and transitive motion verbs. The following examples use the intransitive motion verb lqət- *set off*.

Example 025 shows the stem -lqət- without incorporation:

025	jara-ytə house-ALL	<u>ye-lqət-linet</u> PF-setoff-3pl	?orawet1?a-(person-3pIABS=		n-?ejŋew-ə-n INV-call.out-E-3sgO	
		?oratceq-c S youth-DIM-E-I				
	The people	set off home, i	they called out to	o the youth	i's woman.	[ot119]
In O	26 the stem	-lqət- has an i	incorporated ve	showing	g manner (?ire gal	llop):
026	ekwew-u reindeer.type-E		en jara-ŋ sgA.3sgO house-S		/ <u>layi-?ire-lqa</u> INTS-gallop-set.	
		t-frat-	la raindaan thau		off homewards	1
	Fie put it o	n as the iertsio	e remueer; mey	ganopea d	ni nomewarus	[CY152]
The			•		th indicate purpos	
The 027	following tw qənwet	vo examplés sh ənqen (•	l verbs wi <u>rəju-lqət</u>	th indicate purpos <u>-y?i</u> =?m	
	following tw qənwet finally	vo examplés sh ənqen (DEM.3sgABS g	iow incorporated	l verbs wi <u>rəju-lqət</u> stand.watch	th indicate purpos <u>-y?i</u> =?m	
	following tw qənwet finally	vo examples sh ənqen (DEM.3sgABS g e good uncle wa ke ept-eyəm	iow incorporated eg-ənjiw pod-uncle.3sgABS	i verbs wi <u>rəju-lqət</u> stand.watch <i>ch</i> . ytə-rkən	th indicate purpos <u>-y?i</u> =?m -set.o#-TH=EMPH	e:

Within the semantic constraints given, this process seems very productive. It is common in narratives (despite an almost complete absence in elicited language). Other motion verb stems observed with incorporated manner and/or purpose verbs include the following:

FIGURE 12.2. Verb compounds.

ekwet ^{.VH} go away <i>vi</i>	kətyənt-akwat racwəŋ-akwat	run away go off to race	MANNER	kətyənt racwəŋ	run 12ce
lqət ^{.vn}			······································		
set off vi	r?ile-lqət	gallop off	MANNER	r?ile	gallop
	?ire-lqət	set off to race	PURPOSE	7ire	race
	nju-lqət	set off on watch	PURPOSE	nju	be on watch

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Yt ^{+VH} go to <i>vt</i>	r?ela-yt məŋe-yt	gallup to go to dance	MANNER PURPOSE	r?ile məŋe	gallop dance
γala go past <i>vlab</i>	r ⁷ ela-yala rəjo-yala	gallop past stand a whole watch period	MANNER PURPOSE	r?ile rəju	gallop be on watch

This type of compounding corresponds to the unified treatment of verb serialisation and verb compounding given by Durie (Durie 1997:291; note that Foley and Olsen state that motion verbs are far more likely to serialise; Foley and Olsen 1985). Verb-verb compounds are complex predicates which describe a single event which shares tense, aspect, modality and polarity, and which also appear to share an argument. When both stems are intransitive this shared argument is clearly in underlying S role of both verbs. When one verb is intransitive and the other is transitive, the syntactic role of the underlying argument is A and S_a (actor S, but not undergoer S). The case of the nominal representing this argument is determined by the head verb (i.e. the second verb stem of the compound). This type of compounding is similar to the 'associated motion' described by Australianists (e.g. in Arrente, Wilkins 1991, Koch and Simpson 1995; in Yidiny 'going and coming' Dixon 1977).

The following pair of examples show compounding with a labile yala- pass. In example 029 yala- is intransitive, in 030 it is transitive:

029	?era-γala-γ?e	tətl-ə-k	qaca	nəwil-y?i	Cəkwaŋaqaj	
	gallop-pass-TH	door-E-LOC	NEAR	stop-TH	personal.name.3sgABS	
	He galloped pa	nst, next to th	ne door (Gkwaŋaqaj :	stopped	[cy310]

030 nutkete mraŋ-qac=⁹m ?era-yala-nenat layen ta-y?e really come-TH right-SIDE=EMPH gallop-pass-3sgA.3plO through.here pecacqew-nenat ramk-etə nan leave.behind-3sgA.3plO DEICT (olk-ALL He came through here on the right, he quickly passed them (and came) to

another encampment, he left them all behind.

Compounding is very occasionally observed with verbs that do not indicate motion or purpose. Example 031 shows compounding of a phasa! verb:

iw-nin	ee	waj	γəmo	m-ə- <u>myo-janot</u> -y?a-k=?m		
say-3sgA.3sg(LTMI C	INTJ	1sg.ABS	1sg.INT-E-begin-be.first-TH-1sg=EMPH		
yəto a	nqen	kear	a-ken			
2sg.ABS #	his.3sgABS	nursery	sled-REL.3s	gABS		
muuril q-ə-jaa-y-ə-n cərəvən.ABS 2sg.INT-E-use-TH-E-3sgO						
He said to her, "So, I'll start off first, you guide the nursery sled in the caravan"					[cy272]	
	say-3sgA.3sgf yəto a 2sg.ABS muuril cəravan.ABS He said to	say-3sgA.3sgO INT.J yəto ənqen 2sg.ABS his.3sgABS muuril q-ə-jaa cərəvən.ABS 2sg.INT-E He said to her, "So,	say-3sgA.3sgO INT.J INTJ yəto ənqen kaara 2sg.ABS his.3sgABS nursery muuril q-ə-jaa-y-ə-n cərəvan.ABS 2sg.INT-E-use-TH He said to her, "So, I'll stat	say-3sgA.3sgO INT.J INTJ 1sg.ABS yəto ənqen kaara-iten 2sg.ABS #his.3sgABS nursery.sled-REL.3s muuril q-ə-jaa-y-ə-n caravan.ABS 2sg.INT-E-use-TH-E-3sgO He said to her, "So, I'll start off first	say-3sgA.3sgO INT.I INTJ 1sg.ABS 1sg.INT-E-begin-be.first-TH-1sg=EMPH yəto ənqen kaara-iten 2sg.ABS ⁱ his.3sgABS nursery.sled-REL.3sgABS muuril q-ə-jaa-y-ə-n caravan.ABS 2sg.INT-E-use-TH-E-3sgO He said to her, "So, I'll start off first, you guide the nursery sled in the	

Apart from verb-verb compounds, verbs form compounds with modifiers from other word classes, including adjectives, adverbs and (semantically non-core) nouns:

Chapter	12	VERBAL INCORPOR	ATION	233.
032 n+ HA or slee		<u>aanrat</u> -ə-rkəni" Nd.on-E-PROG <u>rai</u> -qen Nn-3so3	ll ongly to the sled	[cy99-100]
	rom the adjective s and a derived verb ro		is a derived adverbial <i>me strong.</i>	?omr-etə
033 qu one n-a HA	IND WITH ADVERB with t-ti joro-cəko-jp -3plABS sleep.chamber-lN 1jəlyaw-ə-1?at-qenat 3-fear-E-INTS-3pl a. othom sacartly pools	э п-ә- <u>ж</u> ESS-ABL HAB-Е- []	<u>'inw-ə-llep</u> -qinet secrel-E-kok-3pl	
11	e otners secretiy peeke	a out of the sieeph	ng chámber, they were afr	aid. [cy420]
	n myu- <i>caravan</i> is us of motion:	ed with the intra	nsitive stem təle- <i>go</i> to ir	ndicate the
034 ote long jai hou	! PF-caravan-go-3pl a-k se-LOC	t qeluq=?m because=EMPH		
	ey travelled by carava house.	n for a long time,	because they started appr	oaching [cy299]

The verb tale- go is an intransitive, but the noun joined to it is not an underlying S. Thus, this is an example of compounding, not of syntactic incorporation.

12.5 Incorporation/compounding and the lexicon

Certain collocations of words which are structurally like compounding or syntactic incorporation have also got non-systematic, unpredictable morphological or semantic features, which show that these collocations are part of the lexicon (§12.5.2).

12.5.1 Metalinguistic attitudes

Even implication that there are metalinguistic attitudes towards incorporation and compounding might seem strange, as there is no claim that Chukchi speakers have any particular special attitudes towards other grammatical phenomena. However, incorporation and compounding do have the notable feature that they can produce word of quite unusual length. There is a whole genre of humour/oral virtuosity based on this, sometimes called yaylawetyaw tongue twister hurry-word.3sgABS (this name may be a calque of Russian skorogovorka). A few tongue twisters include:

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035	yəmo 1sgABS	three-fork-stick-	e-keŋu-neŋe-l?-iyəm' TOOL-NMZR-1sgABS	[nowket/o]
	I have a	a three-pointe	ed walking stick.	[Ŋawkəke]
036	qaa-jŋ-a reindeer-A	o-n JUG-E-3sgABS	ŋacyæ-kemce-rp?o-corm-ə-jaal-kena-l?-ə-n leti-curty-[fur?]-EDGE-E-rear-REL-NMZR-E-3sgABS	
	Big reir	ndeer with th	e leftside curly back fringe.	[Kromo]

The tradition is old, and many tongue twisters are handed down through the generations, but new ones are also created.

12.5.2 Lexicalisation

Instances of lexicalised incorporation (i.e. incorporations which existed as diachronic rather than synchronic processes) have more complex semantics than simple incorporation. Such multiple stem roots are semantically more than the sum of their parts, and need to be treated as separate lexical entries. Syntactic incorporation is no less subject to lexicalisation than compounding. Many of the common instances of syntactic incorporation (particularly those involving the stem **gora-/qaa-** *reindeer*, see below) are actually lexicalised.

The two basic criteria used here to determine that a complex root results from a non-productive (i.e. lexicalised) process are semantic and morphological. The semantic test is a test of predictability of meaning. If the meaning of a complex root is unpredictable on the basis of its parts then it constitutes a separate lexical entry. The morphological test refers to predictability of form: an unpredictable form is diagnostic of lexicalisation. The form of a complex root can be unpredictable in two ways. It may contain elements in addition to those lexical morphemes which constitute the complex root syntactically and semantically, such as thematic suffixes, or it may contain 'fossilised' lexical morphemes which are separable, but which do not rate their own lexical entry as they do not occur as the lone lexical head of a morphologically simple word.

In the following example, the word owemeyletamyoy?e she worked cooking is a lexicalised compound by the morphological criterion. The word uwi- cook is a normal intransitive verb, but *miylit- (assuming the +VH comes from the inchoative suffix -myo) seems to be an unusual form of miyciret- work.

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037 qol=?m gan <u>owe-meylet</u>-a-myo-y?e caj-koka-t one=EMPH DEICT cook-work-E-INCH-TH tea-pot-3pIABS y-ltit-linet n-uwi-l?et-qin cama PF-boil-3pIS HAB-cook-DUR-3sgS and The other started doing the cooking, the kettles boiled, and she cooked away.

and she cooked away. [cy291]

235.

The source of the form *miylit- is obscure. The c-l alternation is common, although usually the c form has the more lexicalised, less general meaning, and the form in example 037 seems to show the reverse. The missing -et is diachronically a suffix (see §14.3 and below), so its absence is not overly remarkable, particularly since it is often omitted in the presence of the inchoative - myo/-yyo, as well as a few other suffixes. However the final t where we would expect r is remarkable; the Chukchi language does not show such an alternation. Further reseach might show that it is a cross-dialect loan form.

The complex root new-a-nju- to seek a wife is a lexicalised instance of syntactic incorporation according to the semantic test. As mentioned in the discussion of examples 008 and 009, raju-/-nju- in isolation means be on night watch over reindeer (see example 038; there is a different word, qora-nt-at- pasture reindeer, used for standing watch over reindeer during the day). In this complex root the incorporated nominal new- woman and the intransitive verb stem raju-/nju-together have a special, unpredictable meaning of be in search of a wife. Compare unlexicalised use of raju-/-nju- in 038 to the lexicalised complex root in 039.

038	pətk-ə- <u>nju</u> repeat-E-be.or	-lqət-y?i n.watch-sel.off-TH	
	He went ba	ack once again on [night] herding duty	[nb036.5]
039	cam?am unable.MOD	t-ə-re- <u>ŋew-ə-nju</u> -γ?e 1sg-E-FUT-wile-E-be.on.watch-TH	
	I can't go l	looking for a wife	[cy164]

The complex intransitive root qora-nm-at- to slaughter reindeer is formed from the two nouns qora- reindeer and the transitive verb stem tam-/-nm- kill. It counts as lexicalised according to both semantic and morphological criteria. Semantically, this word only applies to the killing of domesticated reindeer for food and materials, and most likely it would be in the traditionally prescribed manner and carried out by someone who was culturally licensed to do it (i.e. someone who makes their living from reindeer husbandry). It could not apply to a wolf which killed a reindeer (except a personified wolf in a fairy tale), or to non-Chukchis shouting a reindeer which they fancied was wild.

LEXICALISED SYNTACTIC INCORPORATION

040 anə janot ya-<u>qora-nm-at</u>-ə-l?at-lenat so lirst PF-reindeer-kill-TH-E-DUR-3piS

But first they slaughtered lots of reindeer.

[ot095]

¹ This tonque twister does not obey the phonological rule of the vowel harmony word prosody (ŋər?ow?are- is +VH and -keŋuneŋel?iyəm is -VH). Several other tongue twisters in my collection have vowel harmony violations; perhaps tongue twisters are so grammatically extreme for some speakers that they cannot apply their phonology in the regular manner.

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Furthermore, the root includes the thematic element -et-VH, which is characteristic of many lexicalised complex roots, and as such is a morphological diagnostic of lexicalisation. This suffix is discussed in its wider functions in §14.3. Many other complex roots with incorporation of the noun qora-/qaa- *reindeer* have this suffix, e.g. qoraytat- in the following:

 041
 penr-a-tko-1?-a-jŋ-a-n
 qora-jŋ-a-n

 go.after-E-AP-NMZR-E-AUG-E-ABS
 reindeer-AUG-E-ABS

 anqen
 n-a-<u>qora-yt-at</u>-qen

 that
 HAB-E-reindeer-go.to-TH-3sgS

 That attacking reindeer drove the others.

[cy247]

The verb stem here is -yt- go to, but the complex root can only mean *drive reindeer*, not go to reindeer as would be predicted from the individual morphemes.

Two more examples of lexical incorporation are 042 qora-penr-at *go after reindeer*, and 043 qora-nt-at- *pasture reindeer*.

042	ya-qora-penr-at-len	Cəkwaŋaqaj	remk-ə-k	
	PF-reindeer-go.after-TH-3sgS	personal.name.3sgABS	folk-E-LOC	
	Cəkwaŋaqaj went after	the reindeer in the o	ther encampment	[cy117]

In isolation the stem **penr-** go after is usually used in the sense of attack (see example 041), however the meaning attack reindeer would be very unusual for the root with incorporated **qora**.

043	q-ə-qora-nt-aa-rkən	
	INT-E-reindeer-pasture-TH-PROG	
	Pasture the reindeer!	[cy003]

The stem **-nt-** in isolation means *have*, but is usually used as an auxiliary with verb bases (see §13.5 and §17.3.2).

12.5.3 Productivity

At least some instances of incorporation in Chukchi are non-productive lexicalisations, and so the productivity of incorporation as a whole could be questioned. In *Languages of the Soviet Union* Comrie gives a dim view of the future of incorporation as a productive device in Chukchi:

[...] it should be noted that while this syntactic device [noun incorporation by verbs] is very common in traditional tales, it is much less frequent in current writing, and virtually absault in translations from Russian, i.e. incorporation seems to be on the wane in the modern language. (Comrie 1981:250)

However, this is not necessarily true; in my experience modern Chukchi writing and translation from Russian is the output of tertiary educated bilingual Chukchis. These people have quite low levels of spontaneous native language use (for reasons discussed in §1.2). The language used by monolinguals and people engaged in more traditional enterprise (e.g. associated with reindeer herding) does not give any indication that incorporation is 'on the wane'.

12.6 Grammaticalisation: stems \rightarrow affixes

When Chukchi is examined from a diachronic perspective, it is apparent that processes of incorporation are the source for many derivational affixes. There is a grammaticalisation cline with incorporated stems on one extreme and derivational affixes on the other. In her typology of noun incorporation, Mithun (1984) notes that:

A number of languages have affixes which correspond to incorporating V[erb]'s in other languages. The Chukotko-Kamchatkan languages [...] also have small sets of derivational suffixes which, when added to N[oun]'s, function much like incorporating V's (Bogoras 1922). They supply meanings such as 'to fetch', 'to take off (clothing)', 'to put on (clothing)', 'to search for', and 'to consume, eat'. Suffixed to N's, they derive V stems denoting unitary activities, as in Koryak (044) and Chukchi (045):

044. *pcai-tIvái* boot-take.off 'He took off his boots'

045. kulté-ilí-rkÍt

thong.seal.sole.hide-look.for-they 'they are looking for thong-seal sole-hide.'

Bogoras never justifies his distinction between these 'derivational suffixes' and incorporating V stems. It is likely that these suffixes are simply city V roots which, in the modern language, never occur without an IN [incorporated noun].

(Mithun 1984:887; example numbers changed)

Further investigation of the suffixes in question bears this out. For example, the suffix -u *CONSUME* mentioned could be related to the verb ru-*l*-nu- *eat (vt)* which has the initial alternation \mathbf{r} - \mathbf{n} - which is usually a transitiviser (§11.1).

The inchoative and completive suffixes -myo and -plətku are formally identical to the verbs meaning 'start' and 'finish'. The -myo suffix is in free variation with a phonological variant -ŋŋo; the verb stem can not have this form. These suffixes are similar to verb compounds (and are presumably historically denved from them), however, in the synchronic language these element can be shown to be suffixes not stems due to their behaviour when combined with other derivational morphology (see §14.4.1).

Other derivational suffixes look like they come from old intransitive verbs. As was shown in §12.4, motions verbs are commonly the heads of verbal compounds. Some grammatical suffixes look like they are the results of grammaticalisation of verb

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compound heads. The purposive suffix -cqiw seems to be cognate with the verb lqət- set off (see examples 025-027). The verb lqət- can incorporate a verb indicating purpose of motion (see 027) to form a compound verb, and can also incorporate stems to do with manner. The suffix -cqiw is restricted to purposive function only.

046 ik-w?i: kitaqun q-ə-yite-<u>cqik-w-ə-n</u> // say-TH HORT INT-E-look.at-PURP-TH-E-3sg yite-<u>cqiw</u>-nin // look.at-PURP-3sgA.3sgO He said, "How about you go have a look". She went to look.

[ka20-21]

The alternation between c and l is a common derivation, where the variant with c indicates a more lexicalised or grammaticalised form. In verb endings and verb derivational suffixes an alternation between -(e)t and -(e)w is common (the e only appears in the absence of other vowels; see §14.3). For this to be compelling we would require evidence that lqət- came historically from *lqi-t.

13

Non-finite deverbal forms

13.1 Introduction

Chapters §§10-12 have dealt with the properties of inflecting (FINITE) verbs. As a word class, verbs have been defined according to their morphosyntactic properties, e.g. person-number cross-reference of arguments and systematic marking of tense, aspect and mood (§4.5). VERB STEMS are simply considered those stems which can be appropriately inflected to form verbs. However, this stem class can be morphologically marked to function in other ways, i.e. to produce words of other word classes. The other verb stem derivations include:

(i) ACTION NOUNS
(ii) PARTICIPLES
(iii) INFINITIVES
(iv) CONVERBS
(v) DERIVED (DEVERBAL) VERB BASES

Action nouns and participles are described in §8.2, §8.4. These forms, although having some verbal features, are functionally closest to other nominals. The remaining classes are more verblike. The infinitive forms a compound predicate with a main verb; the converb forms an adverbial subordinate clause, and the derived verb base acts as the lexical head of an analytic verb. Verb bases and converbs can also act as adverbs within clauses.

There are two converb suffixes which uniquely mark converbs. Another converb suffix also marks the infinitive. The affixes for the derived verb bases are the same as certain case markers and deadjectival adverbialisers. Derived verb bases often appear in certain speech styles with ellipsis of their auxiliaries; in such cases they can be difficult to distinguish distributionally from converbs.

13.2 Definitions

Chukchi converbs are a verbal subclass derived from verb stems, encoding tense/aspect, but not inflecting for person and number. Converbs either function to modify a clause in the same way as an adverb does, or to act as the heads of adverbial subordinate clauses (Nedjalkov 1995; Haspelmath 1995). While

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arguments may be shared between main clause and converb clause, it is not obligatory, and identity relationships can only be determined pragmatically.

The infinitive is syntactically dependent on a main verb and has one or two obligatory shared core arguments. The Chukchi infinitive is homophonous with a converb, i.e. the suffix -k is a bifunctional converb/infinitive marker (Nedjalkov 1995:104).

The deverbal verb bases function as the lexical heads of analytic verb complexes. Within the analytic verb complex the verb base marks polarity and (to a limited extent) tense-aspect properties. All the regular tense-aspect-mood and personnumber cross reference categories are marked by the auxiliary verb (§17.1.3).

The formal criteria for distinguishing infinitives, converbs, and verb bases in Chukchi are:

INFINITIVE:

- non-inflecting (no argument cross-reference)
- no tense or aspect specification
- · obligatory shared argument/s with matrix verb

CONVERB:

- non-inflecting (no argument cross-reference).
- dependent but distinct tense and aspect (i.e. relative tense-aspect)
- no obligatory shared argument/s

VERB BASE:

- non-inflecting (no argument cross-reference)
- independent tense, aspect and mood (marked by auxiliary)
- no obligatory shared argument/s

Thus, verb bases form (at least part of) the head of a main clause, converbs form a separate predicate which is subordinate to a main clause, and infinitives form part of a lexically compound predicate. Converbs and verb bases each have distinctive morphological marking: the infinitive is marked by the same suffix as one of the converb functions. Stems forming converbs and infinitives combine with verb derivational affixes.

The converbs distinguish a number of relative tense categories, which are marked by means of suffixes:

-k anterior clause (simple temporal sequence)
 -(i)negu anterior clause (causally connected; consequence)
 -ma simultaneous clause

The derived verb base forms can be divided into those showing positive and negative polarity. The negative polarity forms are frequent in the language, as they are one of the main ways of forming a negative clause (§§18.2.3-4):

e-___-ke negative universal/habitual lun-___-(t)e negative perfect

The non-negative forms use the suffix $-\gamma t = 0$ for forms which indicate something which is semantically a property (note that this suffix is also used to form deadjectival adverbs/verb bases). All other non-negative verb bases are derived by means of the suffix -(t)e, which is frequently combined with prefixes which mark further aspectual specification:

ye-____-(t)e comitative
em-____-(t)e restrictive
telwe-____-(t)e intensifier (counter to expectation)
mec-____-(t)e approximative

Conspicuously absent from this corpus are converbs of cause and purpose, which appear in the literature (e.g supine -nwə, causal -jpə; Skorik 1977:138, 153) but did not occur spontaneously in any texts. Skorik's causal and purposive converb examples were not recognised in elicitation sessions with native speakers, suggesting that these forms are not used in the Telqep variety. In the texts which make up the database for this description clauses of reason and purpose are introduced by conjunctive particles (cf. **qeluq**; §5.5.2). Other conjunctive particles (with finite clauses) also have functional overlap with converb clauses, particularly coordinating conjunctions like ənk?am and, ənqorə then which provide the temporal organisation of the text (§5.5.2).

13.3 Infinitive

The infinitive is a verb form which is syntactically dependent on a main verb in the same clause, forming a compound predicate with a single valency. The infinitive combines with main verbs with phasal meaning (start, stop) and with predicates enabling or inhibiting the action of the verb in the infinitive.

The most common compound predicate with an infinitive has an intransitive main verb and an intransitive infinitive, which share an S. If the transitivity of the main verb and the infinitive is different, the common argument is in the S=O absolutive case role, i.e. the argument which can be represented by a nominal in the absolutive case. If both main verb and infinitive are transitive the shared argument is the A. Thus, the four possibilities are:

(i) Smain=Sinfinitive

- (ii) Smain=Oiafinitive
- (iii) Omain=Sinfinitive
- (iv) Amain=Ainfinitive

Example 001 shows an inflecting phasal verb qəpaaye finish (2sgS) with an intransitive infinitive complement lejwəl?etək wander sharing its subject:

242.				>	VERBS			Chapter 13
001	"anou INTJ <u>q-ə-paa-</u> INT-E-finis					w-qin ≀say-3sg	"anou INTJ	ŋinqej! boy.3sgABS
				to him, "F	ley boy, s	top wand	ering!"	[ot041]
(§19), and the	ere is no	syntact		ce betwe			ed prägmatically constituent örder
002	_	<u>-at-ə-1?at</u> II-TH-E-DUR			<u>re-?e</u> ≃?m eedy∙TH=EN	/ Aph		
	na-ra-ni 3A-FUT-kil	m-ə-γət l·E-2sġO	petle quickly		jeynek-w hoot-2sgO	ət		
		-	• •		-	kill you q	quick, they	'll shoot you [jo033]
003	qeeqən ther		-	jw-ə-yət in-AUG-E-2sg	/ an 50	ə ŋan DEICI	r r	
	FUT-INTS-	?-ə-twi-y? fast-E-run-Ti		?amən≠ INTJ=EMP		v?inre-?e		
	nelwal?- herd-E-LO			<u>n-at-ə-l?at-</u> M-TH-E-DUR-				
	Further	on I'll ex	plain i		: [how] ye			dy, and [how] [jo032]
Less	common	ly the in	finitive	and main	verb ar	e both tra	ansitive, s	sharing an A, as
						_		etermined to be
-	-		-	BsgS form			-	
004	ləyen really	<u>n-ə-lyi-te</u> HAB-E-INT			taŋ-əməl? EMPH-all-??	-	<u>rə-ra-yt-</u> CS-house-q	<u>at-ə-k</u> o.to-TH-E-INF
	qeluq	ujŋe	ənqei	n MJ.		•n²el-qiñ	-	
	because		DEM.3s	-		E-become-	•	
	•	-						eat ran out.[ke179]
lsgS				e main ver ear that th				be 3plA.3sgO or preferred.
005	<u>n-ə-lwav</u> HAB-E-be.i	<u>w-qen</u> unable-3sgÖ	ŋelv herd	-	<u>ə-rayt-at-</u> S-gö.home-1			
		•		herd home	-			[ke176]
With	an intra	nsitive a	nain ve	rb and a ti	ansitive	infinitive	e. the S of	the intransitive
								rare example of
					•		-	ase, as would be

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1.1

expected):

Υ.

Chap	oter 13 NON-FINITE DEVERBAL FORMS	243.
006	ik-w?e-t / <u>yət</u> / <u>moryənan</u> <u>ləŋ-kə</u> <u>n?-enqet-ə-n?</u> say-TH-3pl 2sg.ABS 1pl.ERG take.as-INF 2sg.COND-desire-E-2	sg
	ya-yalwəl?-ə-ma ya-jara-ma mən?-ə-n-raytat-yət ASS-herd-E-ASS ASS-house-ASS 1plA.COND-E-CS-go.home-2sgO	-
	They said, "Do you desire us to take you [in]? We would bring you hon with house and herc'	ce along (jo008)
the s the <i>i</i> she i sterr	xample 007 the identity of the shared argument is ambiguous. Sem subject of the intransitive infinitive qorayənretək could be thought to A and the O of the transitive verb ninewinretqin . The verb ninewi <i>helped him</i> is unambiguously transitive because of the ine- prefix, and a qorayənret - is unambiguously intransitive, because of O-incorporation is stem qora - <i>reindeer</i> by the transitive verb stem yənret - <i>guard</i> .	be both nretqin the verb
007	ləyen <u>n-ine-winret-qin qora-yənret-ə-k</u> really HAB-TR-help-3sgO reindeer-guard-E-INF	
	She helped him herding the reindeer	[be025]
008	eeqaramwatku/ra-lw-a-tko-y?apojy-a-l?at-a-kINTJNEG.FUTonly.thenFUT-deleat-E-INV-THspear-E-DUR-E-INFwatkuankara-n-rayt-an-g-anonly.thenhereFUT-CS-go.home-CS-TH-E-3sgONo, only once you defeat us in spear duelling, only then will you take here	
The	subject of pojyal?atak <i>cluel with spears</i> could be any or all of the partic	<i>[ot071]</i> inants.
İnfin	itives can take verbal derivational morphology, such as the dura ples 001 and 002, and the desiderative in 009:	•
009	Scc-ena-cemy?o-ta y-ujél-é orŵ-s-qaj-s-tkan-a la Spl-TH-think-VBase CONV-collect.firewood-CONV sled-E-DIM-E-TOP-INST reading cinit n-s-yjulet-qinet ganut ewan ce-miyciren-p-s-k self HAB-E-learn-SplS like INTS DESID-work-DESID-E-INF On their provide flative collecting firewood on top of little siduls, by then they learn for (a want) to work. self little siduls, by then they learn for (a want) to work.	•
only Insta usua Infin <i>they</i> betw	y usually occur adjacent to their head verbs (examples 001-002, 0.4) separated by one or two words (examples 004-005, 009). The oc- nce of an infinitive occurring in isolation or widely separated from lly appear to be cases of ellipsis of the main verb. For example, in itive makatək <i>to make nappy</i> is part of a compound predicate with na- use [it]; however, the equative complement makaj?ər?o as a napp een the main verb and the infinitive seems to complete the main ng makatək looking like an afterthought or rephrasing:	casional its head 010 the ojaaqen y filling

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010	teg-em-wit?-ə-wit <u>n-ə-jaa-qen</u> ənqen əmə INTS-REST-moss-E-REDUP.3sgABS HAB-E-use-3sgO this.3sgABS only maka-j?ər?-o ceq-u leen makat-ə-k /	
	nappy-filling-EQU something-EQU really make.nappy-E-INF	
	ujne e-kəmli-ke / ten-cm-wit?-e NEG.EXI PRIV-Aulf-PRIV INTS-REST-moss-INST	
	They only use moss as nappy filling, to make napples, not cotton it] with moss only.	wool, [they do [ch09]

13.4 Converbs

Telgep Chukchi has three converb affixes. The form -ma indicates a clause concurrent with the main clause, and the forms -k and -inegu indicate a clause which temporally precedes the main clause. The distinction between the latter two forms is that -k indicates simple precedence in temporal sequence, whereas -inequ is resultative, indicating a prior action/state which has relevance to the main. clause. These types are illustrated in examples 011-014.

SIMULTANEOUS CONVERB CLAUSE: -ma

011	ənk?am / kolqocat-ə-tki and join.kolxoz-E-ITER-	•	4	/ []
	qənut ləmalja-n=?m / like obedicnt-ABS=EMPH	ənqorə=?m then=EMPH	nan kolqo DEICT kolxoz-l	
		remk-ə•n=?m lolk-E-ABS=EMPH	·	<u>r?ec=?m ŋan</u> ally=EMPH DEICT
	<u>majn-ə-maravv=?m</u> <u>nan</u> big-E-light.3sgABS=EMPH DEICT	<u>wa;ma</u> / be·SIM	remk-ə-n folk-E-3sgABS	/ kolqucat-y [*] e join.kolxoz-TH
	And, the people entered the co obedient. Then people began <u>war</u> [lit. <u>while the big war wa</u>	to be in the colle	ective farm, <u>oni</u>	ly during the big
A 8 1777				

ANTERIOR CONVERB CLAUSE (TEMPORAL SEQUENCE): -k

012	<u>caj-o-mo-k</u>		nəyjew-?e-n	mal-?ataw	
	tea-CONSUME-INC	H-SEQ INV-	wake-TH-3sgO	APPR-??	
	iyət-qej now-DIM.3sgABS	atc?at-y?e sleep-TH			
	<u>After starting</u> sleep.	<u>to drink tea t</u>	hey woke him,	several times, he'd only just j	gone to [ot058]
Ant	ERIOR CONVERB	CLAUSE (CON	SEQUENCE): -i	nenu	
013	ləyen <u>?ire-p</u>	<u>lətku-neŋu</u>	y-ekwet-lin	jara yta	
	really race-Fil	NISH-CONSEQ	PF-leave-3sg	home-ALL	
	Since [he] finis	<u>shed racing</u> h	e set off homev	vards.	[cy154]

014	[] / ewar SO		ewar SO	<u>in?etw-inenu</u> manage-CONSEQ	ləyen-o really-so	ewər n-ena-pecacqew-qen HAB-TR-leave-3sg
	cene self-to		ann-a Base	n-ə-n ^{>} el-qin HAB-E-become-3sg	cinit self	n-ə-qame-twa-ŋŋo-qen HAB-E-eat-RESULT-INCH-3sg
	00	ich ti	hev can	manage they leav	a tham	when they we get their and trath

 onc: they can manage they leave them, [when] they've got their own toeth, [and] they begin to eat by themselves. [aa4.04] NON-FINITE DEV2RBAL FORMS

In example 012 the attempt to wake the sleeper follows without any necessary causal connection to the prior event of 'beginning to drink tea'. Example 014 is from a description of how a reindeer weans her calf; once the calf can manage by itself then she leaves it. Thus, the -inegu converb form marks an event which is a precondition for the event of the main verb. Likewise, in example 013 'finishing the race' was a necessary condition for the racers to set off home.

There is no requirement that arguments of converbs be coreferent with those of the main predicate. In the example 015 the converb eryatak the next day [lit. after it dawned] is formed from a zero-intransitive. The converb rewiwka after making camp has no syntactically unambiguous S, but from context the S is clearly 3pl 'they' (all the people of the encampment)

015	<u>rewiw-kə</u> =?m / make.camp-SEC;=EMPH	<u>eryat-a-k</u> dawn-E-SEQ				
	enaral?-ə-yawəcqat-etə neighbour-E-girl-ALL	/ n-ə-lewlicet-qin HAB-E-tease-3sg		n-ə-r?e-qin HAB-E-do.something-3sg		
	The next day after they made camp that little boy teased one of the neighbouring girls, did something or other.					

It is unusual for there to be two converbs in a sentence; if there are two they seem to be limited to the -k converb; the causal/implicational relationship implied by -inegu may make this form semantically inappropriate for use in series. Converbs of anteriority usually precede the main verb (iconicity in consultuent ordering); however, the other order does also occur:

016	n-iw-qin HAB-say-3sg	"itək∙ewən so∙INTS	ləyen really	cəmqək remainder	əməl? o əll	t-ə-tku-net" 1sgA-E-annihilate-3plO	1
	jara-k	<u>pəkir-ə-k</u>					
	house-LOC	arrive-E-SEQ					
	Hasaid "A	s it honnone L	cimply w	ined out all	the rest"	The could offer orriv	

He said "As it happens I simply wiped out all the rest", [he said] after arriving home. [ot1231

Subordinate clauses do not seem to occur in the middle of the main clause.

While there is no syntactic pivot (Foley and Van Valin 1984:108), there is a strong tendency for an argument of the subordinate verb to be coreferent with an argument of the main verb. There is however no particular preference for these coreferent arguments to mark fixed syntactic roles. The following examples show some of the patterns observed:

COREFERENCE: Saub = Smain

017	n-iw-qinet	təla-ma	"mət-ra-r?ela-myo-y?a=?m	mən-racwəy-mək"
	HAB-say-3pl	walk-SIM	1plA-FUT-race-start-TH=EMPH	1pl.INT-be.in.race-1pl
	They said wh	ile they were	walking "We'll start racing,	we'll be in the race [cy357]

Note that out of context it would also be possible to interpret this as ...while I/we/you/he/she/it was walking ...)

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In the following example S of the subordinate clause is coreferent with A of the main clause. The coreferent argument ?eqenjiw bad uncle is explicitly mentioned once, and even though it fills two syntactic roles it is only marked for its role with resper: in the main verb (in the ergative case, A function of a transitive verb). Thus, a converh seems to be less likely to govern case agreement than a main verb.

018 Peac-njiw-e pakir-inenu n-in-iw-gin "okoko koji hose the e-ERG approach-CONSEQ HAB-TR-say-3sg INTJ INTJ narath n-a-reg-iyat eqeluq n-omr?o-l?at-eyət?" HAB-E-do.what?-1sq ÖÜt because HAB-sweat-DUR-2sg The bad uncle having approached said to him "Okokoj, what are you doing that you are sweating so much?" [cy011]

Taken out of context this example could also be interpreted as not having coreferent arouments: He approached then the bad uncle said ...

COREFERENCE: $A_{sub} = S_{main}$

In this example S of the main verb is coreferent with A of the subordinate verb.

019	piri-neŋ take-CONS	-	q-ə-rayt-ə-ye INT-E-go.home-E-TH		
	Once yo	u've got the floui	come (straight) home		[nb035.3]
COR	EFERENCI	E: $S_{sub} = O_{main}$:			
020	luur suddenly		nqen jəlq-ə-ma 1at.3sğABS sleep-E-SIM	ejwel-ge-e orphan-DIM-ERG	
	n-in-iw- HAB-TR-sa	• •	/ e-tëngatku-l?e IT NËG-laugh-DUR-N		
	Suddeni Iaugh".	ly quietly while t	hey are sleeping the or	phan says to them,	"Don't [ke010]
Cor	EFERENCE	E: Omain = Asub:			
021	?inə wolf.ABS	t-ə-lqəynew-ə-r 1sg-E-shoot-E-3sg		nan pere-ma sg.ERG grasp-SIM	
	I shot th	e wolf while it w	as grasping the reinde	er.	[nb035.2]

13.5 Verb bases derived from verb stems

The distinctive grammatical feature of verb bases is the ability to combine with auxiliaries to form analytic verb heads. While like converbs these forms are structurally a kind of 'deverbal adverb', they do not form heads of adverbial clauses, and thus they must be distinguished from converbs. There are three basic suffixes, the -yta+VH suffix (which is formally identical to the allative case; this suffix also derives verb bases from adjectives, §16.5), the -ŋ adverbialiser suffix, and the -(t)e-VH suffix (which is formally identical to the ergative/instrumental case). The -(t)e suffix occurs both in isolation, and also along with various prefixes, including ye-, telwe-, mec-,

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There also exist underived verb bases (e.g. layi know); this word class is discussed in §4.6; combination with auxiliaries is discussed in §17.3.2.

• MORPHOLOGICAL FORM. The adverbialiser suffix -n*VH makes a deverbal verb base in combination with the prefix ?eqe- (otherwise an adjective stem meaning bad) to form the IMPOSSIBILITIVE CIRCUMFIX ?aqa-___-n*VH, which encodes the notion of impossibility. It ofter occurs with auxiliaries:

022	<u>?aqa-no-ŋ</u> IMPOSS-eat-VBase <i>[Later] I'll beco</i>	t-ə-re-n [?] el-ə 1SG-E-FUT-become-E			[ke110]
023	qərəm-ewən NEG-INTS	itək so	ənqena-t this-3plABS	<u> 2aqa-tamien-ə-n</u> IMPOSS-deceive-E-VBase	wa-1?-ə-t be-NMZR-E-3pIABS
	No way, they're	untricl	kable		[an021]
The	following examp	le show	s the imposs	ibilitive without an au	xiliary:

024	neekke-qej=?m gid-DIM.3sgABS=EMPH	qeluq≈?m because=EMPH	taŋ-ə-nm-ə-nen INTS-E-kill-E-3sgA.3sgO	qeluq= ?m because=EMPH				
	<u>2aqa-n-malaw-at-ə-ŋ</u> IMPOSS-CS-recover-CS-E-VBase							
	The girl though he killed alas, because [she] was impossible to cure. [kr15.							

However, the auxiliary is here retrievable (i.e. wa-17-a-n, as in 023).

Nedjalkov (1994) reports that there is also an ABILITIVE CIRCUMFIX tan-___-n, but this is not attested in my data. This form is morphologically analogous to the impossibilitive (the prefix tan- apparently comes from the stem ten good), but it should be noted that the functional load of forms of ten-VH in Telgep Chukchi is already very high; in its intensifer function it even occurs with the impossibilitive, e.g. tan-?aga-tw-a-n really impossible to translate (INTS-IMPOSS-say-E-VBase, [kr057]). The suffix -n^{+VH} also occurs with deadjectival adverbs in comparative constructions (§16.6).

The verb base suffixes $-(t)e^{-VH}$ and $-eta/-yta^{+VH}$ share morphological irregularities with case suffixes. The suffix -(t)e has the same allophony as the ergative and instrumental cases (compare §6.2):

$\{VERB BASE\} \rightarrow \circ$	-e ^{.vH} elsewhere

The suffix -yto shares the same allophony as the allative case (compare §15.2.2):

 $\{VERB BASE\} \rightarrow \begin{cases} -eta^{+VH} / C_\\ -\gamma ta^{+VH} elsewhere \end{cases}$

This suffix forms adverbs from adjective stems; these deadjectival adverbs also combine with auxiliaries to make predicative adjective constructions with tenseaspect-mood different from the grammatically unmarked predicate adjective forms with n-___-qin(et) (see also §16.4). Example 025 shows identical constructions with a deadjectival verb base (arojweta yen?ellin become healthy < arojw- ADJ

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CONTRASTING γe(t)e AND γama 027 ewət <u>ye-rewiw-e</u> =?m mec-mejŋet-ə-1?-ə-t:					
so COM-make.camp-VBase=EMPH APPR-be.big-E-PCPL-E-3					
	<u>vəlpa-tko-ma</u> -shovel-UTIL-VBase?				
While making camp the somewhat grown up ones clean scratch) at the campsite, using a shovel.	the snow away (lit. [ch24]				
•MODIFIER FUNCTION. There are very few examples of t auxiliaries; all involve simultaneous associated motion, (semantic agent) of the main clause. These act as clause mod	coreferent with A/S				
	iw-qinet \B-say-3pl				
"iik ləyi-mik-ə-ne re-piri-y-nin					
INTJ EMPH-who-E-ERG FUT-take-TH-3sgA.3sgO					
Cəkwaŋaqaj-ə-n ŋew?ən? " personal.name-E-POSS.3sgABS wile					
They just cruelly killed him, running away they said "W who'll take Cəkwaŋaqaj's wife?"	/ell then, who'll it be [cy363]				
Example 029 shows an adverb mecyanunete by halves formed from the verb yanunet- split into two and the -(t)e suffix:					
	1 1-9 - 4				

029	iee excelient	qonay-te trouser-3pIABS	ləyen really	əməl?o all.3sgABS	plek.a shoe.E.3		· ir?-ə-t clothing-E-3plABS
	ləy-ewli AUTH-kuxl	r?-ə-t lanka-E-3pIABS	-	ŋə≐?m ABS≠ÉMPH	əmə also	kaara-n nursery.sled-/	ABS
	narta-q sled-DIM.3		ləyen really	neməqej also	•	jelwal ierd.3sgABS	ləyen really
	<u>mec-yər</u> APPR-halv		<u>-cwi-y?e-n</u> cut-TH-3sgO	ənqen this		lqət-y?e-t i-set.off-TH-PL	
	jaraŋə, e	were] fine tro even a nurser in half, and	y sled, a li	ttle sled, th			itional costume, a ne herd was [cy244]

The -(t)e form also occurs as an adverb modifier. The morphological similarity of this form to the instrumental case is closely paralleled by its semantic similarities:

030	ləyen	cinit	lep-e	n-ə-yjulet-qinet	
	really	self	watch-VBase	HAB-E-learn-3pIS	
	All by I	themselv	es [by] watch	ing they learn.	[ch26]

The stem **cimy**?**u** can be a verb *think* or a noun *thought*, in the following example accenacemy?ota could be interpreted as instrumental case noun or as a deverbal verb base. If this word is a noun the pronoun is an incorporated possessor, but if analysed as a verb it would be an incorporated actant in the experiencer role (syntactic subjects are not usually incorporated, but incorporation of semantic experiencer is much less unlikely than incorporation of semantic agent; §12.3).

healthy) and a deverbal verb base (getpeta yen?ellin become determined < getpvi. be determined):

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025	ŋan DEICT	ənqorə then	ŋan DEICT	kimit?-ə-n trade.goods-E-3sg	qənwer ABS finally	1	
	qənwer finally	wa-ŋŋo be-INCH-1	•	ŋalwəl?-et ə herd-ALL	remk-ə·n / folk-E-3sgABS	ləγen= really=El	
		c?-ə-ŋŋo-len II-E-INCH-3sg		k-ə-n ləγen 3sgABS really=		i <u>w-eta</u> 1y-VBase	<u>ye-n?el-lin</u> PF-become-3sg
	• •	nret-a-k uard-E-INF	cmto further	<u>qetp-eta</u> determined-Vbase	<u>ye-n?el-lin=?r</u> PF-become-3sg=E		
					g at the herds, so herding, became n		

[he056]

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The -(t)e verb base suffix frequently occurs with verbal and adverbial stem derivational affixes. The verbal derivational prefixes found in the data are em-RESTRICTIVE and mec- APPROXIMATIVE; these do not function with verb bases in any way differently than they do with other deverbal word classes (§14.5.3). A wide range of aspectual and other verb stem derivational suffixes also occur (e.g. -17et DURATIVE in example 026 below).

There are also two special derivational prefixes which only occur with adverbs and verb bases. These are telwe- INTENSIFIER (always translated by bilinguals as the Russian counter-expectation/exclamatory particle ažl) and ye-. The ye- prefix seems to be a historical comitative (it occurs with the homophonous $ye_{--}(t)e$ comitative case and with the associative case ya-___ma). As a verb base it is used as an alternative universal/habitual aspect form, and is generally not accompanied by an auxiliary. Example 026 shows two forms, with the intensifier prefix telwemejnete (< mejnet grow up) and with the 'comitative' prefix yelejwal?ete (< the durative derivation of the stem lejw roam).

026	ənk?am	leen	ŋan	<u>telwe-mejnet-e</u>	leen	qonpõ	ənnin	1
	and	really	DEICT	INTS-grow.up-Vbase	really	always	thus	
	[ŋaryən]	ŋaryəno-jpə		<u>ye-lejw-5-l?et-e</u>		ŋinqeγ-ti		
		outsi	de-ABL	COM-roam-E-DUR-VI	oase	child-PL		

And so right up to adulthood children are always thus going about outdoors. [ch21]

There is also evidence of a verb base form ya-___ma, which seems to be functionally identical to the verb base ye-___-(t)e. These are also the forms for the associative and the comitative cases, which are functionally extremely similar (\$\$6.5.1-2); the verb base function of ya-___-ma is very rare, and may be the result of grammatical interference from the nominal case marking subsystem.

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031	ŋan DEICT	galwəl?-etə herd-ALL	cinit self	ewən INTJ	n-ə-lajw-ə-ŋŋo-qenat=?m HAB-E-roam-E-INCH-3pl=EMPH	cinit self	
	leen really	n-ə-lqət-qen HAB-E-set.off-3p		wəl?-etə I-ALL	<u>əcc-ena-cemy?o-ta</u> 3pl-TH-think-VBase	leen really	
		themselves beg nitiative.	in to go	to the h	erd, themselves go off to the	e herd on	their [ch22]

•TRANSITIVITY. It is most usual for the deverbal verb base form to occur with an auxiliary verb, such as in 032-035. This inflectional affixation of this auxiliary carries the overt marking of transitivity. The -etə verb base is always intransitive, and combines with the wa- and -n?el auxiliaries (*be* and *become* respectively; see §17.3.1). There are no examples of the -etə verb base occut. ing with transitive or intransitivised stems.

Example 025 above shows an analytic verb with the auxiliary n?el-; example 032 shows a participle form of the analytic verb formed with the auxiliary wa-:

032	ənqen this.3sgABS	n-ə-tejk-ə-qi HAB-E-make-E-	•	va] ləγeri≂?m really=EMPH		
	<u>kəkwat-etə</u>	ewən	<u>wa-l?-ə-n</u>	n-ə-mit?enumkew-qin		
	dry.out-ADV	LTAI	be-PCPL-E-3sgABS	6 HAB-E-hide-3sg		
	kəmniyet-kin jaa-jo-lqəl birth-REI3sgABS use-PASS.PCPL-NMZR.3sgABS					
	That is done with a really dry one use for births.			ed out one put aside [hidden] earlier to [ch04]		

The -(t)e verb base suffix can added to a transitive or intransitive stem. The transitivity of the auxiliary agrees with the transitivity of the stem:

INTRANSITIVE pelgete ity?i he died (of neglect/exposure)

033	ne•n•pelq-ew-ə•n	<u>pelqet-e</u>	<u>it-y?i</u>	ne-n-jalyət-ət-ə-n	nangen
	INV-CS•die-TH•E•3sa	die-VBase	be-TH	INV-CS-move.camp-TH-E-3sg	DEM.3sgABS
	They left him to die	[jo122]			

TRANSITIVE tawa qantay?en tell it out loud

034	<u>tow-a</u> tell.about-VBase	<u>q-ə-nt-ə-y?e-n</u> INT-E-AUX-E-TH-3sgO		
	Tell It out loud	d.	(nb93	0.6]

TRANSITIVE waloma nantaqin they've heard about it

035	taŋ-yen EMPH-nol	10 I.know.VBase	w?e-tko-ya die-ITER-NMZ	•	nangen that.3sgABS	ŋan DEICT	1	
	ətr?ec finish	<u>walom-a</u> hear-VBase	et?əm apparently	<u>n-ə-nt-ə-c</u> HAB-E-AUX				
	[they] apparei		a thing abo	out death, t	hey've only l	neard ab	out it	[hc006]

The different auxiliary verbs are discussed in §17.3.

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13.6 Negative verb bases

There are two deverbal negative derivations which differ aspectually. According to formal criteria (§13.2) they are verb bases, since they combine with auxiliaries to form the lexical heads of analytic verb heads. The verb base formed by lug-___-(t)e has perfect aspect (example 037) and the verb base formed by e-___-ke has habitual/universal aspect (example 036). The habitual/universal converb is also used for negative imperatives.

In the following example the imperfective is used with the auxiliary n?el become to show inception of a state:

036 ana waj layen j?a-naly-a-jŋ-a-n layen qonpa so DEICT really raw-hide-E-AUG-E-ABS really always n-a-ŋatwa-qen / qanwet a-qetakwat-ka ye-n?el-lin HAB-E-sit.on.sled-3sg finally NEG-freeze-REVERS PF-become-3sg naly-a-jŋ-a-n ya-kakwat-len hide-E-AUG-E-ABS PF-dry.out-3sg Well that Rawhide simply sat on the sled the whole time. Finally the Rawhide stopped freezing, she dried out [cy300]					
As with other verb bases, there can be ellipsis of the auxiliary where it is retrievable:					
037 <u>lun-iw-e</u> "waj eryatək ənan m-ə-lqət-y'e-k" NEG-say-NEG DEICT tomorrow FUT 1sg.INT-E-set.off-TH-1sg [He] didn't say [to himself, i.e. 'he didn't think']: Well tomorrow I'll set off. [cy302]					
Example 038 shows the negative imperfective form used as an imperative:					
038 "ana <u>e-lejw-a-tku-l?et-ke</u> " atl?a-ta n-in-iw-qin so NEG-roam-E-ITER-DUR-NEG mother-ERG HAB-TF tay-3sg "ana <u>e-lejw-a-tku-l?et-ke::</u> " so NEG-roam-E-ITER-DUR-NEG "Don't wander off all the time", his mother said to him, "Don't wander off" [ot023]					

See §§18.2.3-4 for details.

14

Verbal derivation

14.1 Introduction

This chapter describes the residue of stem derivational morphology not already covered in the discussion of valency changing and converb/verb base derivation. These markers include word-class changing affixes and non-word class changing affixes. Derived verb stems can be used to form words of a number of other classes, particularly converbs (§13.4) and participles (§8.2). Derived verb stems do not act differently to underived stems for the purposes of nominalisation (for examples, see 008-011 and 034 below; §8.5).

Chukchi stem derivational morphology can be classified according to a number of different functional types. A description of the rules for morphological combination is given in §14.2.

•VERB DERIVER (§14.0). The suffixes -et-VH and -ew-VH (which mostly act like allomorphs; see below) perform a range of generally unpredictable morphological functions, including derivation of verbs from other the theorem of classes, acting as thematic suffixes with other derivational prefixes, and marking the tertain forms as having unpredictable semantic or syntactic features.

•ASPECTUAL (§14.4). These include affixes concerned with the endpoints of verbal actions/events (the inchoative -ŋŋo/-myo, the completive -plətku, the resultative -twa) and their duration (the durative -l?et, iterative -tku, punctual -cqəcet).

•VERBAL QUANTIFIERS (§14.5). There are two verbal quantifiers which indicate that the verbal action is by or on a collective entity: -jw indicates collective O and -r?u indicates collective S. There are also verbal intensifiers (ten-, lyi-) and approximative (mec-) which quantify the event as a whole.

•MODAL (§14.6). Includes desiderative re-____n- and purposive -cqiw. Diminutive -qeet and sugmentative -cyat are also considered with the modal suffixes as their main function is also as a registered about the relation of the attitude of the speaker to reality.

•MISCELLANEOUS L¹ (\tilde{c}_{A}) (§14.7). The suffix \cdot u derives a verb with the meaning 'consume' or 'process' (for example, 'processing animal hides to make clothing'). The

suffix -tku derives a verb from a noun meaning 'to use [noun] as a tool, to work with [noun]' (for the possible relation of this to other instances of the -tku suffix see §14.7.2). The reversative -tw derives a verb from another verb meaning 'to reverse the process of [verb]'.

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14.2 Morphological behaviour

Derived verb stems occur in most word class changing derivations that underived verb stems can enter into. Derived verb stems do form converbs, but do not seem to form verb bases (§4.6, §13.5).

Most verbal derivational suffixes can combine with most others, and it is quite usual for a verb stem to have several derivational prefixes and suffixes:

I reme	mber them	well			[kr075]
002 ənk?ari ənd qənut like	n waj DEICT nemaqej also	ənqen DEM.3sgABS yelwəl?-ə-t herd-E-3plABS	w ² i- <u>tku-12et</u> -y ² i die-ITER-DUR-TH / []	remk-ə-n=?m folk-E-3sgABS=EMPH	1

In multiple derivations morpheme order is constrained as shown in figure 14.1.

FIGURE 14.1 Morpheme order for derivational affixes.

teŋ.	lyi-	re-	ine-	n-		-et -ew	-tku	-ŋ	-tku	-r [?] u -jw		-myo -ŋŋo -plətku
INTS	INTS	DESID	AP	CS	stem	ТH	AP	DESID	ITER	COLL	DUR	INCH COMPL

The verb deriving suffixes -et and -ew are multifunctional in a very unsystematic, lexicalised way (§14.0). They occur inside all other derivational suffixes. The forms -cqəcet (punctual), mec- (approximative), -qeet (dominutive) and -cyat (augmentative) are not attested with other derivational suffixes (possibly due to their rarity, possibly due to semantic incompatibility; see §14.4.4, §§14.5.3-6). The resultative -twa, the reversative -tw and the purposive -cqiw are attached directly to the underlying verb stem, as are the lexical verb deriving suffixes -u (consume) and -tku (utilitive). The ine- prefix (antipassive/applicative), the antipassive function of the -tku suffix, and the causative/applicative circumfix -n-___-et/-ew (word initial form r-___--et/-ew) are discussed in §§11.5-6.

In verb compounds derivational morphology is added to the compound as a whole; there are no derivational suffixes added to the first verb of a compound, nor derivational prefixes added to the second verb. That is, the position of derivational suffixes on verbal compounds is always [stem1]-[stem2]-[DER], and never [stem1]-[DER]-[stem2]. The inchoative (-myo/-ŋjn) and completive (-platku) derivational suffixes (§14.4.1) are formally identical to verbs with the same meaning (i.e. *start*,

finish), and it might be possible to analyse them as verb stem heads of compounds rather than derivations. However, since all other derivational morphology is conveniently ordered before these forms (see figure 14.1), it is possible to show that these are distinct derivational suffixes, and are not just compounded verb stems. This is a good example of grammaticalisation. Compare the behaviour of the derived verb stem r?ela-myo- start to gallop with the verb compound r?ile-lqət- set off galloping when each is combined with the collective suffix -r?u:

r?ela-r?o-myo- (gallop-COLL-INCH) start to gallop as a group r?ile-lqət-r?u- (gallop-set.off-COLL) set off galloping as a group

If -myo was to be considered an example of the verb stem *start*, the predicted form would be ***r?ela-myo-r?o-** (i.e. [stem1]-[stem2]-[DER]), which is ungrammatical.

Derivational morphology occurs closer to the stem than inflectional morphology; this is in agreement with general typological norms (Payne 1990, Anderson 1992; see also §10). In example 003 verbal inflectional morphology has a single underline and verbal derivational morphology has a double underline:

003	cake- sister-D	qaj IM.3sgABS	<u>t-ə-re</u> -piri- <u>cqivy-ŋ-ə-n</u> 1sg-E-FUT-take-PURP-FUT-E-3sg	1	ŋelwəl herd.3sgABS		
	əmə also		<u>t-ə-ra-n-1?at-en-ŋ-ə-n</u> Isg-E-FUT-CS-go-CS-FUT-E-3sg				
	I'll go	[ot087]					

14.3 Verb deriver -et and -ew

The semi-allomorphic (see below) forms -(e)t^{-VH} and -(e)w^{-VH} are ubiquitous verb derivational suffixes (the vowel in the suffix only appears after a consonant). They have a number of functions, first among which is to derive verbs from stems of other word classes. The derived verb can be transitive, intransitive or labile. There is no rule determining which of the two suffixes is used for derivation of verbs from other parts of speech.

VERB	SOURCE
cawcəwa-w (vi) become ā rich herder	cawcəwa- (n) rich reindeer herder
jər?-et (vt) <i>fill</i>	jər?- ^{-vH} (n) <i>contents</i>
kətəjy-at (vi) be windy	kətəjγ-⁺ ^{νн} (n) <i>wind</i>
tumy-ew (vt) befriend	tumy- (n) friend
ut?am-et (vi) erect tentpoles	ut?əm (n) <i>tentpole</i>
win-ew (vt) train, break (to harness)	win- (adj) tame, broken (to harness)
ənp-ew (vi) be(come) old	ənp ^{vH} (adj) <i>elderly</i>
?əl-et (vi) snow	?alVH (n) snow
-	

Other verbs exist which can be shown to have one of these suffixes which can't be shown to be derived, at least in the contemporary language, for example:

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VERB kəly-et (vlab) *harness* təmne-w^{+VH} (vi) *get lost*

RELATED FORM (without -et/-ew) kəly-ə-tw- (vt) *unharness* təmŋe-twa- *be lost (RESULTATIVE)*

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Although kəly- and təmŋe- do occur without the -et/-ew suffix (example forms shown in the second column, above), the bare stems do not occur without some sort of derivation.

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There are extremely rare instances of these two forms distinguishing different words, e.g. ?ur-et- (vi) be born and ?ur-ew- (vi) poke head out (e.g. person peeking out of the sleeping chamber, seal poking head out of breathing hole in the ice). While this ought to be enough to declare the two suffixes differerent morphemes, there are other factors make them look like lexically conditioned (irregular) allomorphs.

The main evidence the r these forms are allomorphs occurs with addition of the transitivising r-*l*-n- prefix (causative §11.5.1, applicative §11.6.1); in most (but not all) instances, addition of the causative prefix to a root with -et is accompanied by replacement of -et by -ew, e.g.:

INTRANSITIVE FORM	TRANSITIVISED FORM				
cimir?-et break, tear	-n-cimir?-ew break, tear.				
tomy-at- come into being	-n-tomy-aw- create				
me:	-11-mejŋ-ew- bring up				

An exception to the above rule is:

kəlw-et- be tied up n-kəlw-et- tie up

This alternation between -et and -ew does not seem to occur in the direction -ew \rightarrow -et.

INTRANSITIVE FORM	
tenm-aw- <i>be ready</i>	
ny-ew- wake	
ajəly-aw- <i>be afraid</i>	

TRANSITIVISED FORM -n-tenm-aw- prepare -n-ə-ny-ew- wake

m-ajəly-aw- frighten

Forms without either -et or -ew when intransitive almost always add one or the other when transitivised by the r-/-n- prefix:

NTRANSITIVE FORM	TRANSITIVISED FORM
əlw-/-lw- burn	-n-ə-lw-et- burn smth.
nu- be left over	-n-ynu-w- leave over
cajo- drink tea	-n-cajo-w- give tea to

There are occasional verbs which have the -et or -ew suffixes apparently just to indicate that the verb is somehow derived. It indicates a number of non-systematic valency changes, e.g.

 pela-t- (vi) remain < pela- (vt) leave (anticausative: S of pelat- corresponds to O of pela-, but pelat- has no underlying A) lw-aw- (vlab) be unable < lw- (vt) defeat, be victorious over (S/A of lwawcorresponds to O of lw-; the argument structure of lwaw- does not have an element corresponding to A of lw-; O of lwaw- corresponds with O of a transitive infinitive complement)

Likewise, certain verbs with an incorporated argument must take the -et suffix (apparently never -ew). The verbs which do this are all verbs referring to traditional activities, and the suffix seems to show that they have special, unpredictable meanings. For example, when the transitive verb təm-/-nm- *kill* incorporates the O function noun stem **qora**- *reindeer*, the resultant complex stem has the form **qoranmat**- (with -et^{-VH}), and refers to the slaughtering of a domestic reindeer in the traditional manner for domestic purposes; if discourse required an incorporated verb referring to *moose-killing* (an elaborate context would have to be set up, since moose are killed on an ad hoc basis without particular cultural/ritual significance), the verb would be wopqanm- (<wopqa- moose) and never *wopqanmat- (this phenomenon is discussed further in §12.5.2).

Note that not all instances of the phonemes et or ew at the end of verbs are necessarily separable morphemes; the verb ekwet- (vi) *set off* forms the causative as -n-ekwet-ew- (vt) *drive off*, which shows that in the intransitive stem the et is part of the underlying stem.

The suffixes -et and -ew can sometimes be deleted without any change in meaning when combined with other derivational suffixes; however, even where it can occur this deletion is not obligatory. The following example shows two forms of the inchoative of mixcir-et- work:

004	n·ə·meycer-ə·myo-qen	n-ə-meycer-et-ə-myo-qen	
	HAB-E-work-E-INCH-3sg	HAP E-work-VB-E-INCH-3sg	
	Both: 'S/he began worki	ingʻ	(nb024.1)

14.4 Aspectual derivations

Chukchi her a large number of aspectual derivations which occur in addition to inflection of ease-aspect.

14.4.1 Inchoative -jgo/-myo and completive -platku

The inchoative has two forms, -ŋŋo and -myo, which are in free variation Examples 005 and 006 show both forms used with the same verb by the same speaker at different times in a single narrative.

005	qeylənanye truly	t eryat-ə-k=?m sunrise-E-SEQ=EMPH	qora-yərke-ŋŋo-y?a-t reindeer-collect-INCH-PF-3pl	
	Truly the n	ext day they started c	ollecting together the reindeer	[cy081]
006	ŋelwəl	rə-pkir-en-nin	qora-yərke-myo-y?a-t	
	herd.3sgABS	CS-return-CS-3sgA.3sgO	reindeer-collect-INCH-PF-3pl	

He brought the herd in, they started to collect together the reindeer. [cy118]

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The -myo suffix is formally identical to the verb myo- *begin*, shown in the following example:

007 internat-o-k t-o-myo-?a-k keli-tku-k boarding.school-E-LOC 1sg-E-begin-TH-1sg write-ITER-INF In the Internat I began to study.

[na086:1]

In Standard Literary Chukchi (Skorik 1977:193) only the -myo form of the inchoative suffix is attested. Formal criteria showing that -myo is a derivational suffix as well as a word stem are discussed §14.2. The free variation between the -myo and -myo allomorphs of the derivational suffix (as opposed to the invariant myo- verb stem) is additional evidence that the derivational suffix and verb stem are distinct morphemes.

Inchoatives and completives occur with inflecting verbs and with all other deverbal word classes, e.g.:

INFLECTING VERB

008	ecyi no.sooner	<u>nm-at-ə-plətko-y?a-t</u> r-kill-TH-E-COMPL-TH-3pl	ərir?a then	ijalwəl?-etə herd-ALL	ən-in 3sg POSS.3sgABS
	ŋelwəl?-ə- herd∙DIM.3sg	 r-ejmew-nin CS-approach-3sgA.3sgO	ewət sö	tang-en stranger-POSS	.3sgABS
	ŋalwəl?-ə- herd-E-AUG-			-	-

As soon as they finished reindeer slaughtering now off to the herd, he drove his little herd, likewise the strangers' big herd. [ot097]

CONVERB

C09	<u>caj-o-platko-k</u> =?m	ŋəto-γ?e	ənpənacy-a	iw-nin	/ []
	tea-CONS-COMPL-SEQ≖EMPH	exit-TH	old.man-ERG	say-3sgA.3sgO	
	He finished drinking tea a	and went out	tside, the old m	an said to him	, ""
					[cy201]

VERB BASE

010	ewət	[yat]	<u>ya-teu</u>	<u>/-ə-tkc</u>	<u>-110-1</u>	ta	ŋa	m j	jalyət-l	ken		
	so COM		COM-bea	at.snow-	EITER	-INCH-VBAS	E DE	ĪĊĪ	nomadise			
	inene-t cargo.sled	-3plABS	ye-tiw-e CÓM-beat.s		BASE	ewət so	cinit self	leer really				
	<u>ya-tew-</u>	<u>ə-tko-m</u>	<u>vo-ta</u>		γe∙w	incet-e	əmə	l?o	leen	remk-ə-n		
	COM-beat	.snow-E-IT	ER-INCH-VB	ASE	COM-	help-VBASE	ali.3A	BS	really	Inlk-E-3sgABS		
	ewət	ŋeekke	-qey-ti	ya-ra	ı-tew-	ə-l?at-a						
	S 0	girl-DIM-3	piabs	COM-1	house∙b	eat.snow-E-I) UR-VBA	\\$E				
	Them (have har	In headla	67 -		C						

Then (they) begin beating off snow, from the cargo sleds used in nomadising they beat off snow, themselves beginning to beat off snow, helping the whole camp, the girls beating snow from the houses. [ch25]

PARTICIPLE

011	əməŋ	⁷ emi	a-pecqəjo-mo-kə-l?-ena-t		
	and	INTER	NEG-have.diarrhoea-INCH-NEG-PCPL-TH-3pl.ABS		
	And th	ey don't j	get diarrhoea 🦳 🦯	•	[ch19]

The completive suffix has exactly the same type of grammaticalisation as the inchoative discussed about. The completive suffix -plətku is formally identical to the verb pələtku-/-plətku- finish. They can be distinguished morphologically; if a sequence VERB STEM + plətku was to be considered the head of a compound verb, it would be expected that the compounded verb stem could not have any derivational suffixes, i.e. there could be no verb derivational affixes between the compounded verb stem and plətku. This is, however, not the case, as example 012 shows:

012	kawratl-ə-l?at-y?e	kawratl-ə-l?at-ə-plətko-y?e	
	roll-E-DUR-TH	roll-E-DUX-E-COMPL-TH	
	He rolled, he finish	ed rolling.	[10044]

This can be contrasted to the inchoative marked verb **plətku-** in example 013, which is clearly a verb stem, since in addition to the inchoative suffix it is marked with the verb derivational prefix lyi-.

Derivational suffixes with phasal meaning are not incompatible with phasal verbs expressing seemingly contradictory meanings. There are a number of examples in the texts of inchoatives suffixed to the verb platku- *finish*, as in the following:

013	ənk?am	-	nenenə	railery The cry-F		n	1	ne-r-iv -ə-rkən-iyət	
	and "waj INTJ	waj INTJ	baby.3sgABS q-o-n-lowat- INT-E-CS-breas	-ү-ә-п		anə and		3A-FUT-say-E-PROG-2sg tery-a-l?at-a-rkan " cry-E-INTS-E-PROG	1
	ləyen really	•	• -rkə-net •E•PROG•3plO	"eej yes	waj DEIĈŤ		_	<u>platko-mo-y?a-k</u> NTS-finish-INCH-PF-1sgS	
	janot first	waj DEICT	qeme-jər?-a dish-contents-E		m-ə-t INT.1s	•	•	e-n!" -E-PF-3sgO	
	crying"	you ju		m "Yes, I	've just	stari	ted	hey, breastfeed him, doing [lit. finishing hts]!"	

14.4.2 Lexically specific inchoatives -r⁷u and -twi

The meterological inchoative $-r^2u$ derives zero-intransitive verbs from nouns referring to meterological phenomena (discussed in §11.2.1). This suffix might be cognate with the formally identical collective suffix $-r^2u$ (§14.5.1) although there is only a tenuous semantic link. It is impossible to show that there are distributional differences between the two functions of the form. While the meteorological inchoative only ever occurs immediately adjacent to the stem, this does not show that it is in a different morphological slot than the collective. The only morphemes which could intervene between the verb stem and the collective suffix, and which therefore could be diagnostic, do not occur for semantic reasons: the desiderative and purposive are incompatible with meterological verbs (since meterological verbs are agentless), and the iterative is a semantically unlikely aspectual combination (since meteorological verbs with $-r^2u$ refer to the inception of states).

The deadjectival inchoative **-twi** (see also §16.5.1) derives an intransitive verb from an adjective meaning 'to become [adjective]', e.g. from the adjective in''- fast.

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014	naqam but	ləyen INTS	ye-qupqet-lin PF-starve-3sg	<u>y-in?-ə-twi-lin</u> PF-iası-E-INCH-3sg	
	But (the	bear] wa	s starved and had	l become very fast	[an080]

The temporal adverb wulqətwik *in the evening* is morphologically a converb formed with this derivation of the adjective stem wulq- *dark*, i.e. wulq-ə-twi-k (dark-E-INCH-SEQ), literally *after it became dark*.

14.4.3 Durative -17et

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The durative aspect indicates an intensively prolonged action/event within the tense-aspect frame of the verbal inflection.

015	[] / muu carava	-té qit-ənn n-ADV freezé-fish		pə muu-te caravan ADV	
	<u>n-ə-riwl-ə-l?et-o</u> HAB-E-transport-E-D		<u>•myu-təle-1?et-qinet</u> I-E-caravan-go-DUR-3pl	nalwəl?-etə=?m herd-ALL=EMPH	[]
	by caravan t went in carava		frozen fish from Qyrge		nys] [he058]

The category of durative as $p \in t$ over $p \in t$ addition to any aspectual inflection; it is common with the statively inflected verbs, which overlap semantically (duratives focus on the length of a process, stative verbs indicate permanent or unbounded processes), but it also occurs with the non-stative verbs in any tense-aspect-mood combination. Examples 016 and 017 show the habitual and perfect forms of the stative paradigms; examples 018 and 019 show non-future and future declarative forms of the non-stative paradigms:

016	ŋanqen there.3sgABS	neme again	ekwet-y?i set.olf-TH	ləyen really	<u>n-ə-lejw-ə-l?et-qin</u> HAB-E-walk-E-DUR-3sg	meŋqo why?
	Once again	he went	off there, war	dered off	for some reason.	[ot032]
017	•	-	<u>-uwintet-a-l?</u> F-make.fire-E-DU			
	So there the	ey inade a	big cooking .	fire		[0t094]
018	ce ee INTJ INTJ <u>gora-nm-at</u> reindeer-kill-TH-	DEICT .ə.1?at-γ?;		PH home	t-ə-y?a-t .go.to-E-TH-3pl	
	So anyway,	they wen	t home, and s	slaughter	ed a lot of reindeer of	course. [ke244]
019	ik-w?i / say-TH	ŋutkete along.here		÷	wolka-ta wolf-ERG	
	<u>r-ine-rkale-</u> FUT-INV-follow-					
	He said, *W	'e'll run a	way along he	re, the wo	olf will follow me"	[ke094]

The punctual aspect suffix -cqəcet-VH indicates an action which occurs in an instant.

Cha	pter 14	VERBAL DERIVA	TION	261.
020	<u>2ire-piri-cqəcen-nin</u> race-take-PUNCT-3sgA.3sgO He grabbed the goad ly		wa-1?-ə-n be-PCPL-E-3sgABS <i>hile racing by</i>	ti-nə goad-3sgABS <i>[nb035.5]</i>
It n		-		•
	ever occurs with the pro cate a punctual event re	•		al stative forms to
021	-	ine-rkəceciw-ə-qin		
	Ū.	B-TR-chase-E-3sg	other-3plABS	
	<u>n-ine-piri-cqəcet-qinet</u> HAB-TR-take-PUNCT-3pl	•	n-ine-np-ə-qinet HAB-TR-knock-E-3pi	?əl?əl-ə-k snow-E-LOC
			yra-r⁹o-qenat gled-COLL-3pl	
	Well he chased the hero the snow, there they sin			horns down onto [ot053-54]
14.4	4.5 Iterative -tku			
	suffix -tku has a numb speech act participants a	cting on each othe	er when there is a	
desc with colle 023, augr mak Itera	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominali mentative suffix; §8.9.2), tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus "j?u j?u j?u"	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems:	ivational suffix for nominal suffix -tl cojŋən <i>a terrible µ</i> erative-derived ve rord class changing e [noun] as a tool' (<u>Pet-qin</u> ŋan	ming the iterative ku which forms a <i>plague</i> in example erb stem by the suffix -tku which
desc with colle 023, augr mak	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominali mentative suffix; §8.9.2). tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems: n <u>n-a-j?u-tku-1?</u> HAB-E-say.j?u-IT	ivational suffix for nominal suffix -tl cojŋən <i>a terrible µ</i> erative-derived ve rord class changing e [noun] as a tool' (<u>Pet-qin</u> ŋan	ming the iterative ku which forms a <i>plague</i> in example erb stem by the suffix -tku which
desc with colle 023, augr mak Itera	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominalise mentative suffix; §8.9.2). tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus "j?u j?u j?u" iNTJ INTJ INTJ He [laughed] like this: ank?am / angora and then <u>w?e-tko-jp-a-n</u> y die-ITER-AUG-E-3sgABS t	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems: n <u>n-a-j2u-tku-17</u> HAB-E-say.j2u-ITI <i>Tj? u j? u j? u</i> 	ivational suffix for nominal suffix -tl cojŋən <i>a terrible p</i> erative-derived ve ord class changing e (noun) as a tool' (<u>Pet-qin</u> ŋan ER-DUR-3sg DEICT <u>-y?i</u> remk-ə-n TH folk-E-3sgABS	ming the iterative ku which forms a <i>blague</i> in example erb stem by the suffix -tku which (§14.7.2).
desc with colle 023, augr mak Itera 022	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominali mentative suffix; §8.9.2). tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus "j?u j?u j?u" iNTJ INTJ INTJ He [laughed] like this: ank?am / angora and then <u>w?e-tko-ig-a-n</u> y die-ITER-AUG-E-3sgABS to And then many people	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems: n <u>n-a-j?u-tku-l?</u> HAB-E-say.j?u-ITI <i>"J?u j?u j?u"</i> gan <u>w?i-tku</u> DEICT die-ITER-T wa-y?e=?m we-TH=EMPH <i>Te died, there was a</i>	ivational suffix for nominal suffix -tl cojŋən <i>a terrible p</i> erative-derived ve vord class changing e [noun] as a tool' (<u>Pet-qin</u> ŋan ER-DUR-3sg DEICT <u>-y?i</u> remk-ə-n [H folk-E-3sgABS a terrible plague.	ming the iterative ku which forms a <i>blague</i> in example erb stem by the suffix -tku which §14.7.2). <i>[ke007]</i>
desc with colle 023, aug mak Itera 022 023	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominalise mentative suffix; §8.9.2). tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus "j?u j?u j?u" iNTJ INTJ INTJ He [laughed] like this: ank?am / angora and then <u>w?e-tko-ig-a-n</u> die-ITER-AUG-E-3sgABS then And then many people -antipassivising iterative jily-a-n t?er	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems: n <u>n-a-j?u-tku-l?</u> HAB-E-say.j?u-ITI "J? u j? u j? u" gan <u>w?i-tku</u> DEICT die-ITER-T wa-y?e=?m be-TH=EMPH le died, there was a e suffix on a transi yala-y?e=?m /	ivational suffix for nominal suffix -tl cojŋən <i>a terrible p</i> erative-derived ve vord class changing e (noun) as a tool' (<u>Pet-qin</u> ŋan ER-DUR-3sg DEICT <u>-y2i</u> remk-ə-n TH folk-E-3sgABS a terrible plague. itive verb:	ming the iterative ku which forms a <i>plague</i> in example erb stem by the suffix -tku which §14.7.2). <i>[ke007]</i>
desc with colle 023, aug mak Itera 022	ribed in §11.6.2). It can nout antipassive (below) ective noun (§8.10.1; alt , which is a nominalise mentative suffix; §8.9.2). tes a denominal verb wit ative suffix on intranstiv angen=?m angi DEM.3sgABS=EMPH thus "j?u j?u j?u" iNTJ INTJ INTJ He [laughed] like this: ank?am / angora and then <u>w?e-tko-ig-a-n</u> die-ITER-AUG-E-3sgABS then And then many people -antipassivising iterative jily-a-n t?er	also act as a deri . There is also a though not w?etk isation of the it . There is also a w h the meaning 'use re verb stems: n <u>n-a-j?u-tku-l?</u> HAB-E-say.j?u-ITI <i>"J?u j?u j?u"</i> gan <u>w?i-tku</u> DEICT die-ITER-T wa-y?e=?m be-TH=EMPH <i>de died, there was a</i> e suffix on a transi yala-y?e=?m / pass-TH=EMPH g / OLENI Q	ivational suffix for nominal suffix -ti cojŋən <i>a terrible p</i> erative-derived ve ord class changing e [noun] as a tool' (<u>Pet-qin</u> ŋan ER-DUR-3sg DEICT <u>-y?i</u> remk-ə-n FH folk-E-3sgABS a terrible plague. itive verb: kamlelə jara-l around.ADV house-l gora-ŋə <u>ya-</u>	ming the iterative ku which forms a <i>plague</i> in example erb stem by the suffix -tku which §14.7.2). <i>[ke007]</i>

VERBAL DEPIVATION

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262.	VERBS Chapter 14
025	caj-o-y?e=?m qame-twa-y?e=?m ekwet-y?i neme ŋəlwəl?-etə tea-CONSUME-TH=EMPH eat-RESULT-TH=EMPH set.off-TH again herd-ALL
	poc?a-ka-yəry-ə-t <u>ye-nni-tku-jıv-ə-linet</u> ləyen əməl?o sleeve-pierce-NMZR-E-3plABS PF-sew-ITÉR-COLL-E-3plO realiy all.3ABS
	ka-yəry-ə-t / əməl?o ləyen ye-nni-jw-ə-linet / pierce-NMZR-E-3pIABS all.3ABS really PF-sew-COLL-E-3pIO
	ekwet-y?i galwəl?-etə seLoff-TH herd-ALL
	He had tea, ate, and again set off to the herd. She had mended all the sleeve holes, all the holes. She had mended them all. He set off to the herd. [cy040]

14.4.6 Resultative -twa

The resultative derivation forms a stem which indicates a state which is the result of an action (Nedjalkov & Jaxontov 1988:6). Resultative-derived stems most often occur with verbs in the stative inflections, but can also occur with other forms to indicate non-current or superceded states (see example 029).

Nedjalkov, Inenlikej and Raxtilin (1988:152-166) contains a detailed account of the behaviour of the resultative in Chukchi. The resultative is marked by the suffix -twa, which is the same form as the existential copula (§17.2.1). Combinations of verbs plus this form could be analysed as verb compounding. This issue is addressed by Nedjalkov et al., who consider that the best evidence for the distinction between verb head and suffix is the functional-semantic separation, and that morphosyntactic evidence is in itself inconclusive (Nedjalkov, Inenlikej & Raxtilin 1988:157). However, a better reason for considering this form to be a suffix rather than the head of a compound is found in its morphosyntactic structure. There are two issues: (i) the transitivity of a compound is determined by the compound head (the second stem of the compound; see §12.4), and (ii) the compound modifier (the first verb stem of the compound) has a restriction that it must be intransitive. The forms which we will want to call 'transitive resultatives' violate both these conditions. A transitive resultative has the morphological form [stem_{transitive}]-twa-, which shows that the transitivity of the derived verb is determined by the first element, not the second, and that the first element can be transitive. Transitive resultatives are much less common than intransitive resultatives in Chukchi, but example are still found (see below, 030-031). The relative rarity of transitive resultatives itself may reflect the grammaticalisation path of the resultative from a verb compound with the intransitive existential verb -twa as the head.

The following examples show the use of the resultative derivation with the verb wak?o- *sit*. Without the resultative the verb wak?o- refers to the action of sitting down (examples 026, 027), while wak?o-twa-, the form with the resultative, refers to the state of being seated (example 028):

Chap	oter 14	VERBAL DERIVATION		263.
026	cot-ə-tkən-ə-k <u>wak?o-</u> cushion-E-TOP-E-LOC sit-TH	<u> </u>		
	He sat down on the cushio	מ		[cy196]
Fror 027	•	nother bear weans her n-ə-l yi-peŋ²iwet-qinet łAC-E-INTS-get.tired-3pl		
	anə ətlon n-ə-yəntew so 3sgABS HAB-E-run.aw	•		
	And then it's like only when runs away.	n they get completely t	-	n she [an050]
028	waj notgen enmed DEICT DEM.35:jAU.S already	cot-ə-tkən-ə-k cushion-E-TOP-E-LOC	<u>n-ə-wak?o-twa-qen</u> HAB-E-sit-RESULT-3sg	
	There he is, he's already se	ated on the cushion.		[cy199]
The	verb wak?o- sit is common	both with and witho	ut the resultative der	ivation.

With the intransitive verb qame- *eat* the resultative is so common as to be virtually a lexicalised part of the stem; the derived verb stem qame-twa- *have something to eat* (the transitive verb ru-/-nu- *eat* is formed from a completely different stem):

029 n-iw-?e-n e q-ə-jet-yi ewət / waj / INV-say-TH-3sg INTJ INT-E-come-TH so DEICT <u>mət-ra-qame-twa-y?a=m</u> / mət-ra-maraw-y?a 1pl-FUT-eat-RESULT-TH=EMPH 1pl-FUT-fight-TH

They said to him, "Oh, come in, so now we'll have something to eat, [then] we'll fight" [ot100]

Transitive resultatives are somewhat less common:

030	ŋew?en-e wile-ERG			<u>n-en-ommacajpə-twa-gen</u> [] HAB-TR-embrace-RESULT-3sg							
	His w	vife	e was embracing hir	m			[cy385]				
031	[]	1	ənqen=?ni DEM.3sgABS=EMPH	qora- ŋ <i>э</i> reindeer-3sgABS	ənkə there	n-ə-twa-qen HAB-E-te-3sg	cama and				
	janot <u>n-ə-n-ewl-aw-ə-twa-qen</u>										
	first		HAB-E-CS-be.tied-CS-E-I	RESULT-3sg							
							6				

... that reindeer was there, but first she was tied on a long rope. [ke102]

Resultatives are most common with verbs referring to posture (e.g. 032). This suggests a semantic link to the formally identical existential copula verb -twa-, which is used in locational clauses.

032 ənkə=?m WOLKA-t panra-t n-ə-nməlu-qinet <u>n-apaqatl-ə-twa-qenat</u> there=EMPH wolf-3plABS paw-3plABS HAB-E-lick-3pl HAB-lie.down-RESULT-3pl And there the wolves were licking their paws, lying prone. [ka23]

There are further examples of -twa in the data. The verb nəmətwa- *live, reside* looks like an irregular resultative; nəm- is a noun stem meaning *settlement*, but there is no corresponding verb, so this would be better analysed as S-incorporation:

264.				VE	RBS	<u></u>	Chapter 14
033	•	ləyen realiy cy-ə.qay. DIM-3p1AB	settle-/2-1	<u>-twa-y?a-t</u> be-TH-3pl cakəyet sister,3sgABS	ənqen DEM.3sgABS ewət so	əngin thus əntuulpər wile's.husband	/ atlon DEM.3sgABS
	So they	all lived	well; th	e old people,	the sister, .	and her hu	sband as well. [ot146]

Resultative-derived verb stems can be nominalised. The following example shows derived nominals formed on the basis of the resultatives atc-ə-twa- *be hiding* and **perq-**ə-twa- *be in ambush*:

034	ənqen=?m	<u>atc-ə-twa-nwə-t</u>	1	qəcəmena-t	jara-t					
	DEM.3sgABS=EMPH	hide-E-RESULT-PLACE-3pIABS		NEG.ID-3pl	house-3pIABS					
	<u>atc-ə-twa-nwə-t</u> <u>perq-ə-twa-nwə-t</u>									
	hide-E-RESULT-PLACE-3plABS ambush-E-RESULT-PLACE-3plABS									
	They were hiding places, there weren't houses, [they were] places for hiding,									
	places for ambusi	hes.			[kr119]					

14.5 Verbal quantifiers

1995 (* 75

The verbal quantifiers are a group of derivations which specify the scope of the action/event represented by the verb over its argument. The collective suffixes mark an argument as affected in notable quantity; the intensifier prefixes emphasise more the activity of the verb. The approximative prefix is the reverse of the intensifier prefixes, indicating that the action of the verb is carried out to a less intensively or less completely.

14.5.1 Collective suffixes -jw and -r⁹u

There are two collective suffixes, -jw, which only occurs with transitive verbs and indicates collective O, and $-r^2u$, which only occurs with intransitives and indicates collective S. Note that there is no verbal derivation for collective A.

The collective suffix -jw has the allomorph -jaw produced according to regular schwa epenthesis rules.

035	•	l <u>yi-nin?ejw-ə-iw-ə-qen</u> INTS-teach-E-COLL-E-3sg	<u>n-ena-n-rasskazaw-aw-ja</u> HAB-TR-CS-explain-CS-COLL-3se			
	He taught and expl	ained everything to her.		[ke174]		
036	ewat pipik-a-t so ankle-E-3piAB					
	Likewise he cut all	their ankles apart.		[ot079]		
037						
	I've killed them all. Why did they take my sister?					

	-r?u suffix indicates that the intransitive subject refers to a mass of entitle re don't seem to be any limitations on the semantic role of the S; examples 038
	show actor S, and examples 039-040 show undergoer S:
038	qora-yərke-plətko-y?a-t=?m kəlyet-y?e-t reindeer-catch-COMPL-TH-3pl=EMPH harness-TH-3plABS
	yekeŋ-ə-l?-ə-yiniw=?m / <u>ekwet-r?u-y?e-t</u> drive-E-NMZR-E-COLL.3sgABS=EMPH set.off-COLL-TH-3pl
	They finished catching the reindeer, all the drivers harnessed up and they all set off.
039	<u>jaalat-r?o-y?a-t</u> follow-COLI · TH-3pl
	Everybody else followed. [kc22]
040	<u>aupaet-r?u-y?e-t</u> / UMIRET ¹ -y?e-t OLENI die-COLL-TH-3pl die-TH-3pl reindeer.3pl
	They all died of starvation/exposure, the reindeer died. [kal.
041	ənqen=?m BABAJKA² kelə ye-et-lin DEM.3sgABS=EMPH ghost spirit.3sgABS PF-come-3sg
	jəlqet-r?u-y?e-t=?m n-ena-lwaw-eyəm iw-kə TIXO / e-quli-ke! sleep-COLL-TH-3pl=EMPH HAB-TR-unable-1sgA say-INF quiet NEG-shake-NEG
	There was a ghost, a spirit had come [when] they were all asleep; I couldn't tell them "Quiet! Shut up!" [ke05.

14.5.2 Intensifier prefixes

Chukchi has only a small set of verbal derivational prefixes. The prefixes which do occur are all more common as prefixes to adjectives (§16.3.3) or nominals (§8.10.2), rather than verbs.

The prefixes $1\gamma_i$ (example 042) and ten- (043, 044) are both intensifiers. It is unclear how they differ, and they frequently occur together (045).

042 nelwal kəceciw-ə-nin ləyen ten-ləmənkəri nangen herd.3sqABS follow-E-3sgA.3sgO really INTS-E-thence DEM.3sgABS ŋan n-ə-<u>lyi-lqeynew</u>-qin ²iy-ə-qej ?orawetl?a-n əngen DEICT HAB-E-INTS-shoot-3sg welf-E-DIM.3sqABS DEM.3sqABS person-3sgABS He simply followed the herd, from all sides far off, they shot at that little wolf, that [one who was actually a] person. [ot052]

¹ The stem of the verb UMIRET-y?e-t is Chukchi pronunciation of the Russian infinitive *umeret*' 'die'. In standard Russian this has approximate phonetic form {um/a'ret}] or [um/e'ret], which is closest to the Chukchi phonemic sequence /umjaret/, realised by regular processes as [umiret].

² The word *babajka* is non-standard Russian used by Chukchis; its origin and currency in Chukotka are both somewhat of a mystery (Aikhenvald *pers. comm.*).

266.				VERB	S	Chapter 14
043		e- qej=?m •DIM.3sgABS:	qeh EMPH beca	uq≓²m use=EMPH	<u>taŋ-ə-nm</u> -ə-nen INTS-E-kill-E-3sgA.3sgO	
	• •		iqa-n-malaw POSS-E-CS-reco		v	
	But he	killed the	(horribly inj	jured] girl	, because it was impossi	ible to cure her. [kr152]
044	ləyen really	ənŋin thus	wetca-ta stand-ADV	• -	r-nin=?m A.3sgO=EMPH	
		<u>-peqet-aw</u> S-collapse-Th		WOLKA wolf.ABS		
	Just II.	ke that, sta	anding up he	e shot at ti	he wolf, and made him i	all right down [kc097]
045	· ·	n-iw-qin HAB-say-3sg	-		<u>g-pag?ew-gəto</u> -y?a-k" PH·INTS·rest·exit-TH·1sg	
	she s	says "Ooh!	I'm going t	o go have	a really good rest"	[cy344]

The intensifier lyi- is apparently related to the noun prefix lyi- real, proper (a grammaticalisation path also attested in English 'really'; Bybee & Dahl 1989), and ten-VH likewise is the same as the adjective stem ton-VH good.

14.5.3 Approximative mec-

The prefix mec- indicates that the action/event of the verb occurs slightly or incompletely.

046 ye-mec-ejmew-linet jara-k=?m new?en-ə-k neme PF-APPR-approach-3pt house-LOC=EMPH again wife-E-LOC wak?o-y?e gaca near.PP sit-TH They got a bit closer to the house, again [they saw] he was sitting next to his wife.

A similar meaning can be encoded by the diminutive (§14.6.3); approximative and diminutive cooccur in the following example:

[cy384]

047	ənqen=?m DEM.3sgABS=EMPH	tirkətir Sun.3sgABS	kitkit slightly	<u>ye-mea</u> PF-APPF				
	SOLNUSHKA=?m sun=EMPH	tiver-?ew so.much-ADV	ŋan DEICT	kitkit slightly	yəryola-ta high-ADV			
	ye-n?et-lin [PF-become-3sg	.]						
	The sun came up a tiny wee bit, the sun just showed, became a little bit higher							

The approximative prefix also occurs with nouns (§8.10.3) and adjectives (§16.3.3).

14.6 Modal derivation

The modal derivations are a group of affixes which express notions to do with human attitudes towards the action of the verb. These include derivations

Chap	ter 14	VERBAL DERIVATI	ON	267.
§14.(•	ation of whether th	e action is	of the action (purposive, good or bad (combined .3).
The perse form marl	on (first-person wanting ed by a prefix re-/ce- a	lar way to express is expressed by a nd a suffix -ŋ. This	verb in the is very sim	of wanting for non-first intentional mood). It is ilar to the future tense certain person-number
048	cawcəwa-tko-t reindeer.herder-COLL-3pIABS n-ə- <u>ra-n-kolqoc-aw-</u> ŋ-ə- HAB-E-DESID-CS-kolxoz-TH-DI	tko-qenat=?m ESID-E-ITER-3pl=EMPH	/ []	
	They wanted to put the	reindeer folk into k	olxozes	[he016]

The following example shows the desiderative on a verb base (describing hilltop fortresses of ancient times):

049	ənk?am	cama	qaletlə	em- <u>ce-llem-n</u> -e	
	and	and	downwards	REST-DESID-look-DESID-Vbase	
	And also	[they cou	ld] look do	wn when [they] wanted.	[kr101]

Under elicitation conditions some speakers will allow desiderative derivation on verb stems inflected with the future tense, but this never occurs spontaneously, and it seems possible that this is another instance of overproductive use of morphology by literate speakers.

14.6.2 Purposive -cqiw

The suffix -cqiw derives a form from verb X indicating 'going in order to X'. It rarely occurs with modal or aspectual derivational suffixes (i.e. except for derivational suffixes which derive verb from stems of other classes). In the following example the verb stem koralatko- is derived from the noun koral corral:

050	[]	1	ŋutrilə hither	[#]] <u>n-ə-koral</u> HAB-E-corral			1	ləyen reaily	[#]
	-		t-at-gen eer-go.to-TH-	3sg	reink-ə-n folk-E-3sgABS		onr-at-qe: leer-separate-		[] 5g	
	th	e pec	opia drove	the d	deer hither to	corral the	m, weaned	d off	the trade	herd [he058]
051	[]		iw-qinet B-say-3pl	-	omawaani-et: :e.name-ALL		ol?-o-cqew ve-E-PURP-F			
	th	ey sa	id they w	ill go	o towards C ² 0	mawaam	for the ca	lving	; season	[kr211]
052	1	· .	003		a a lautari	lavan	a.ina.k	umt.	conik-wi	nan

052 iw-nin eqalpe q-ə-lqut-yi ləyen q-ine-kwut-cəqik-wi ŋan DEICT INT-INV-hamess-PURP-TH quickly INT-E-get.up-TH really say-3sgA.3sgO [cy086] He said to him, "Get up quickly and harness me"

268.			V	ERBS	
053	[]	1	q-ə- <u>c</u> a <u>j-o-cqek</u> -we INT-E-leə-CONSUME-PURP-TH	q-ə- <u>recqik</u> -wi INT-E-enter-TH	
	co	ome i	have tea, come inl		x
Шьі	to col	-35.0	now in order to drink too	from avamala 05	3 is a regular

While caj-o-cqew- in order to drink tea from example 053 is a regular purposive, in the variety of Chukchi treated here the verb recqiw- enter cannot be synchronically resolved into a verb stem and a purposive. This is not the case for northern varieties of Chukchi, which have the verb re- meaning enter, but not recgiw-.

054	wəne INTJ	q-ə-jet-yi INT-E-come-TH	q-ə-re-yi INT-E-enter-TH	
	Oh con	iel Enterl		

[Belikov 1961:151]

Chapter 14

[cy190]

This shows that receive enter of Telgen Chukchi is a lexicalised purposive on an independent verb stem *re- which no longer occurs in that dialect.

14.6.3 Diminutive and augmentative

The diminutive and augmentative suffixes for verbs are very similar to those of nominals (§8.9). The diminutive -geet-VH comes from underlying *-gej-et (diminutive + verb derivational suffix) and -cyat from $* cy^{+VH}$ -et-VH (augmentative + verb derivational suffix). There is no augmentative based on -in, the other augmentative suffix which occurs with nouns (§8.9.2). Verbal augmentatives and diminutives are both used to show both fondness and disparagement; these functions are distinguished contextually:

Augmentative showing disparagement:

055	rcq-u jat <u>.e-cyat-y?e</u> ? what-EQU come-E-AUG-TH	
	Why on earth did you come? [nb034.7]
Dim	nutive showing disparagment:	
056	enaral?-ə-ŋawəcqa-ta ivy-nin "ilu-ke <u>d-ə-twa-ç ;at-ə-rkən</u> neighbour-E-woman-ERG say-3sgA.3sgO move-NEG INT-E-be-DIM-E-PROG The neighbour girl said to him, "Stop it you little [idiot]!"	i [ot010]
Dim 057	nutive showing affection: qeylənanyet <u>jəlqet-qeet-y?i</u> puc?e-t ruly sleep-DIM-TH sleeve-3plABS	
	təni-tku-jw-ə-nine-t cimir?et-ə-l?-ə-t ləyen nend-ITER-COLL-E-3sgA.3plO tear-E-PCPL-E-3plABS really	
	(And) truly, he fell asleep the poor little thing, she mended the sleeves w were torn.	vhich [cy035]

In more emotionally neutral contexts augmentative is an emphatic/intensifier and diminutive indicates small amount.

Emotionally neutral augmentative - intensifier/emphatic: 058 ya-cawcawaw-a-cyat-len kolo! PF-be.rich.herder-E-AUG-3sg INTS Oh and they'd become rich herders!

The emotionally neutral diminutive in this limiting function occurs with ye-mecpintaget-geet-lin (PF-APPR-show.itself-DIM-3sg) it showed itself slightly, which is used in example 047.

14.7 Miscellaneous lexical derivations

These derivational affixes indicate meanings which are similar to the meanings indicated by lexical stems, and unlike the grammatical type of meanings indicated by the other affixes described above.

14.7.1 Consume -u

The suffix -u derives intransitive verbs from nouns referring to comestibles meaning to eat/drink/otherwise consume the item in question.

059	eej <u>q-ə-caj-o-ye</u> INTJ INT-E-lea-CONSUME-TH	waj q-ə-qame- DEICT INT-E-eat-RE	• • • • • • • •	ME-TH
	Oh, drink your tea, have so	mething to eat, dri	ink your tea	[cy039]
060	,		t-ə-n²el-ə-k 1sg-E-bccome-E-1sg	
	It's there I stopped smoking	ς, previously I smo!	ked.	[kr172]
061	ya-yt-ə- <u>reig-o</u> -lenat PF-hard-E-porridge-CONSUME-3pl			
	They'd eaten lots of porridg	e		[ke135]

While the form of this suffix is homophonous with the equative case, there do not seem to be any grounds for considering them cognate.

14.7.2 Utilitive -tku and constructive te-___-ŋ

The suffix -tku derives a verb from a noun referring to a tool with the meaning 'use [noun] as a tool', 'work with [noun]'. This affix seems to be productive with any semantically appropriate noun. The derived verbs are usually intransitive, but some are transitive (see 064; the conditioning seems to be lexical).

062	note-nqac there-SIDE	ta-y?e pass-TH	ənpənacy-ə-n old.man-E-3sgABS		j?ily-ə-kin moon-E-REL.3sgABS	
	orw-ə-taraŋ sled-E-build.hou	-	 <u>atya-tko</u> -gen E-adze-UTIL-3sg	1		

He came out of there, an old man of the moon was working in the lee of a sledhouse with an adze ... [cy187]

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[ke145]

270. VERBS		0			Vana in 1			~-
70. VERBS	Chapter 14	Cna	pter 14		VERBALI	DERIVATION	l	27
063 aŋqa-corm-ə-k n-ə- <u>nyine-tku</u> -qinet sea-SIDE-E-LOC HAB-E-net-UTIL-3pl		070	ewət so	thither duc	(wa-jŋ-ə-n k-AUG-E-3sgABS	ləyen really	<u>ləmy-ə-tw-ə-y?i</u> hood-E-REVERS-E-TH	
They are net-fishing beside the sea.	[na107:3]		cakett sister-E-L		oocwetγaw-o-1? onverse-E-DUR-TH			
Working with tools necessarily involves iterated motions, and thus it m case that this suffix is just a special case of the -tku iterative being used class changer (noun \rightarrow verb); §14.4.5.			And th		t away thither	•	oved his hood near the	e sister [JoO9
The verb weyətku- <i>scratch</i> is a transitive:								
064 [] / wey-ə-tku-nin təm-nen cław-E-UTIL-3sgA.3sgO kill-3sgA.3sgO he scratched him, killed him.	[ot138]							
The circumfix teŋ ^{-vH} derives an intransitive verb from a nour meaning 'make a [noun]'.	-							
265 ama anka <u>n-a-ta-ra-:rgen</u> ? and there HAB-E-MAKE-house-MAKE-3sg								
And does it build its house there?	[aa4.13]							
D66 ank?am m?emi-1?-a n qanwer cinit <u>te-m?emi-ŋ-y?i</u> and bullet-NMZR-E-3sgABS finally self MAKE-bullet-MAKE-TH And the Bullet Folk eventually made bullets themselves	[] <i>[kr051]</i>							
14.7.3 Reversative tw								
The reversative derives a verb meaning to reverse the process referred verb stem, thus from inege- <i>load</i> the reversative suffix -tw deriv negetw- meaning <i>unload</i> (compare 067 and 068 below). The re- lerivation does not seem to be used productively.	vēs a verb							
167 man- <u>inene-tw</u> -a-y?e-n 1pl.INT-load-REVERS-E-TH-3sg								
Let's unload it. ¹⁶⁸ orw-ə-jij-ə-n t-in- <u>inene</u> -n utt-e=?m ra-yt-ə-y?e sled-E-AUG-E-3sgABS 1sg-TR-load-3sg wood-INST=EMPH home-go.to-E-TH	[nb064.7]							
He loaded the sled with wood, went home.	[cy215]							
69 neme qol <u>kəly-ə-tw-ə-nin</u> neme tənp-ə again QUANT.3sgABS harness-E-REVERS-E-3sgA.3sgO again stab-E-3 neme təm-nen again kill-3sgA.3sgO	ə-nen 3sgA.3sgO							
Again he unharnessed one, again he stabbed it, again he killed it.	[cy434]							
here are a few instances of this suffix deriving a verb from a nor pllowing example ləmy-ə-tw- (vi) <i>remove hood</i> is derived from the nor mord.								

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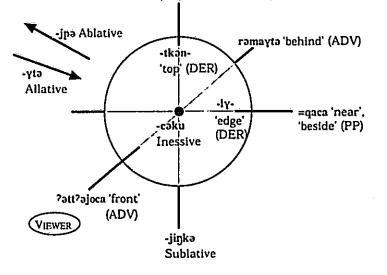
Spatial relationships

15.1 Introduction

Chukchi spatial relationships are expressed by case affixation or phrasally. These morphological and syntactic strategies for indicating spatial relationships to a certain extent interlock; for example, the spatial relation *below* is indicated by a case marker -jiŋkə, but the corresponding relationship *above* is indicated phrasally with the adverb yəryoca. Some spatial adverbs appear to be partially grammaticalised as postpositions (e.g. qaca *near*); arguments for and against positing the postpositional phrase as a syntactic unit are presented in §15.5 (see also discussion of the postposition reën *with/accompanying*; §4.9). Deictic adverbs (and certain demonstrative pronouns in locational cases) indicate spatial meanings referring to entire clauses (§15.6).

Apart from the case markings, there are a number of derivational suffixes (DER) and postpositions (PP) / adverbs (ADV) which indicate spatial relationships. These are outlined in figures 15.1 and 15.2.

FIGURE 15.1. Spatial relationships to a bounded entity (e.g. a person, house, hill). yəryoca 'above' (ADV)



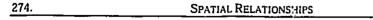
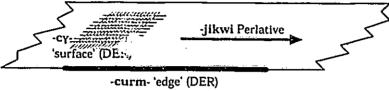


FIGURE 15.2. Spatial relationships with an unbounded or elongated entity (e.g. a road, river, the sea, the land).

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Spatial derivational affixes are discussed in §15.3, spatial adverbs are discussed in §15.4.

There are a small set of transitive verbs which have an object which is semantically a location. These semantically locational objects of transitive verbs are marked by the absolutive case, like any other transitive object.

001	ewan INTS	ərigot at.lhat.limë	1	<u>na-j²o-²a-n</u> INV-go.to-TH-3sg	<u>STARIK</u> old.man.3sgABS	1	<u>ənpənacy-ə-qaj</u> old.man-E-DIM.3sgABS
	At that	time they v	visite	ed the old man.			(ka03)

I am grateful to Steven Levinson, Eric Pederson and David Wilkins from the Max Plank Institute for Psycholinguistics, Nijmegen for generously sharing with me the research materials developed by the Cognitive Anthropology Research Group (Wilkins ed. 1995).

15.2 Locational cases

The different morphological classes of nominals and their marking of the locational cases is discussed in §6.2. What follows focuses on the semantics of spatial relationships expressed by these markers.

15.2.1 Locative -k-VH

The locative has the widest range of application of all the spatial cases. Apart from general location (002, 003) it is also the case used when there is a word in the clause (spatial adverb or postposition; §4.9, §§15.4-5) further specifying location.

002	<u>remk-ə-k</u> Iolk-E-LOC	pəkir-y7i anive-TH	1	ənqo from there	-	iora-jŋ-ə-n doe-AUG-E-3		wəjan-n untie-3sgA.	
	He arrived	In the other	r enc	ampment,	then u	nharnesse	d the d	loe.	[cy103]
003	rak-wary-a-	<u>k</u> =?m	ya-i	rənn-ə-kwa	a-len	əngen	ənan	iaale-n	[#]

pierce-NMZR-E-LOC=EMPH PF-horn-E-catch-3soS SUPER-last-VBase qora-ŋə reindeer-3sgABS [cy419]

In the hole the very last reindeer got its horn caught

15.2.2 Allative -yta+VH

The allative case marks movement towards a referent. It has two allomorphs in the common noun declension:

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 $\text{(allative)} \rightarrow \begin{cases} -\text{eta}^{\vee \text{H}} / \text{C}_{__} \\ -\gamma \text{ta}^{\vee \text{H}} / \text{elsewhere} \end{cases}$

These allomorphs are illustrated by examples 004 and 005:

004	<u>ətl?a-ytə</u> mother-ALL	•	•		notgen?" this.3sgABS	
	[He went	t) to his mother; [she	said) "	Oh my, wha	at is this then?"	[ot142]
005	•	caj-o-tko-y?e lea-CONSUME-ITER-TH	?emi and	ekwet-y?i set.off-TH	i <u>na (wal?-eta</u> herd-ALL	γekeŋ-e drive-VBase
	He dran	[cy159]				

The allative sometimes functions in such a way that it could be interpreted as a dative. Skorik 1961:164 lists this case as 'dative/allative'. The verb 'give' is the prototypical yerb to have an argument in a recipient role, and while the Chukchi verb il- give is indeed a three-place transitive marking both the recipient of the giving and the object given, a 1st or 2nd person pronoun in the allative only appears with this verb in translation from Russian (clearly a gloss of the Russian dative case). In spontaneous Chukchi the verb jl- give has a special argument structure, with the recipient appearing as pronominal cross-reference on the verb in O role and the gift appearing as an un-cross-referenced absolutive case nominal in apposition (see example below and §11.3.1). The allative is not used.

006	ne-jl-ə-tku-jw-ə-mək	acc?et	kante-t	
	3pIA-give-E-ITER-COLL-E-1pIO	only	lolly-3pIABS	
	They just gave us lollies			[nb029.5]

With a third person recipient the argument structure is more difficult to determine, since number marking usually only occurs on absolutive nominals and the unmarked singular is frequently used in place of plural anyway. However, it seems that with 3rd person arguments the verb jl- give agrees with the absolutive case 'gift' nominal and the recipient is indeed marked in the allative.

007 ənqorə jawrena / neme / Kac?ayəry-ə-n neme personal.name-E-3sqABS again then again nextyear / cowgoc-eta jəl-nin nelwəl [#] ənr?o qol collective.farm-ALL give-3sgA.3sgO herd.3sgABS one.3sqABS then Then in the next year again [it was] Kac?ayəryən, again [he] gave a herd to [he041] another collective farm ...

Likewise, in the following example the addressee of the intransitivised (antipassive) verb tw tell about is also given in the allative case (note that the O of this transitive stem is the thing told, not the addressee, and that the specification of the addressee is optional and indeed unusual).

008	wetəqun	əine	ŋaw∙tomy-etə	ena-tw-ə-ka	
	HORT	NEG.HORT	woman-friend-ALL	AP-tell.about-E-NEG	
	Don't you	tell your wil	fel		[ke029]

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Allative case nominals do not act as verbal arguments except with verbs which take any directional complement; there is no evidence that the allative is privileged in any way as the obligatory complement of any verb.

Although there are two possible endings for personal pronouns in the allative, $-ka^{+VH}$ and $-kayta^{+VH}$, these are interchangeable and do not reflect a functional distinction. The $-kayta^{+VH}$ suffix is completely regular, and the $-ka^{+VH}$ suffix seems to be a truncated form of it which retains the vowel harmony value (see note 14 to fig. 2, §6.2). The high animate plural allative suffix $-raka^{+VH}$ is also irregular; the historical source of this form is obscure, but the final schwa and dominant vowel harmony is suggestive of a similar truncation to the $-ka^{+VH}$ form.

HIGH ANIMATE PLURAL

009	ijanqen that.3sgAB	ijan S DEIĈT	<u>äte-rək</u> granddad-	_		-lqət-γ?e UT-sei.oll-T	ij utku H hëre	
	t-ə-re-nt 1sg-E-FUT-	-ə-ŋ-ə-n -have-E-TH-E-3		luur?-ə :w-E-DIM.3		neme again	qol one.3sgABS	[reluur?əqej]
		qol one.3sgABS	neme again	qol one.3sg/	\BS	-	•	
		off there to . ng more to						chew, again [cy398]

The high animate singular allative suffix is $-ne^{-VH}$, which is identical to the ergative/instrumental and locative case suffixes. Unlike the pronominal and high animate plural forms of the allative, the high animate singular doesn't have dominant vowel harmony (in other Chukchi varieties this may differ, see fig. 2 §6.2, note 7). This suggests that the case syncretism between ergative/instrumental, locative and allative in the high animate singular is an old feature of the language, pre-dating the - γ tə allative case form¹.

HIGH ANIMATE SINGULAR

010	"kolo INTJ	kolo! INTJ	<u>mik-ə-</u> who E-Ai		@@@ [laughter]	II .		
	"wəne INTJ <i>"Ho-ho!</i>	waj DEICT <i>Where t</i>	j?ely-et moon-ALL o?{iit. T	•	n?']*—*	Well, to th	ne moon*	[cy170-171]
011	t-ə-ra-qo 1sg-E-FUT-	-	•	<u>ətcaj-q</u> aunt-DIM	<u>aj-ə-na</u> ·E·ALL	janot first	t-ə-re-lqət-y?e 1sg-E-FUT-set.olf-TH	
	yekeg-e = ride-VBase		ənqorə then	jara house		t-ə-r-ekwe Isg-E-FUT-se	•	

I'll catch the reindeer, first I'll go to aunty's on my team, then I'll go from the house. [cy175]

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15.2.3 Ablative -jpa+VH

With verbs indicating motion the ablative expresses motion away from a source, or motion within a boundary. With verbs of manipulation the ablative is used for the part of the manipulated item that the manipulator actually comes in contact with. It has three allomorphs:

$$\{ablative\} \rightarrow \begin{cases} -\gamma \neq p \Rightarrow^{\vee H} / VC_{---} \\ -ep \Rightarrow^{\vee H} / CC_{---} \\ -jp \Rightarrow^{\vee H} / V_{---} \end{cases}$$

Example 012 shows a clause with a series of verbs of directed motion, giving the ablative arguments a reading of 'motion/action directed away from the source':

012	ecyi no.sooner	waj DEICT	anqen this.3sgABS		vary-a-k E-LOC	paker-a-ŋŋo- 'approach-E-INCI	•	ənqorə then
	cot-tayər cusion-boun		jara-ŋə house-3sgABS	1	əriqorə Ihen	<u>renoly-epa</u> wall-ABL	<u>pintəq</u> appear-T	
	Cəkwaŋa personal.nai		<u>tətl-epə</u> door-ABL	· ·	<u>o·y?e</u> xge-TH			
	Soon as the house out the [s	e, then t	hrough the w	ach t vall o	he hole, th f the house	en [reached] th Cokwayaqaj a	ne outer appeared	chamber, 1. He came [cy416]

When the verb does not imply directed motion and the nominal marks something which can be treated as a range which motion occurs within rather than a source which motion originates from, the ablative indicates motion all around the range:

013	anə qot so alwa	npə <u>nota-jp:</u> ays land-ABL	<u>n-ə-lejw-ə-qeet-qin</u> HAB-E-wander-E-DIM-3sg	ənqen that.3sgABS	nin qej-qej boy-DIM.3sgABS
	finally	ləyen mejne really be.big-T <i>little boy was a</i>		, finally he g	rew ир. [ot020]
014	[] iw-1 say-3		onpənacy-ə-qaj STA old.man-E-DIM.3sgABS old.r	RIK /	
		atkat-a-17-a-n ound-E-NMZR-E-3s	<u>naryəno-jpə</u> ? pABS outside-ABL		
	she said snow outs		n: "Could that be the sou	ind of someb	ody walking on [ka18]

This polysemy is shared by deictic adverbs, such as ləmənkəri from everywhere, around everywhere. Example 015 shows an ablative case noun ralkojpə from/around inside the room and ləmənkəri from/around everywhere in a single clause (note that the deictic adverb does not any affix which is etymologically related to the ablative):

015	yəmo	<u>lamankari</u>	n-ə-cejw-ə-tku-jyəm	<u>ralko-jpa</u>
	1sgABS	everywhere	HAB-E-walk-E-ITER-1sg	room-ABL
	I walke	d about evervy	where inside the room	

[nb069.3]

This is further discussed in §15.6.

¹ There is also comparative evidence of similar case syncretism. Stebnickij (1994) shows that the ablative and allative case affixes are recent innovations in Koryako-Chukotian, with the earlier general locational suffix -ŋ (an adverbialiser in Chukchi) fulfilling all these functions.

278. SPATIAL RELATIONSHIPS Chapter 15	Chapter 15 SPATIAL RELATIONSHIPS 279.
When the ablative marks a nominal in a clause with a verb of manipulation, the nominal refers to the part of the manipulated person/object upon which force is applied.	suffix on a physical landmark, whereas example 021 shows it on a deictic stem also indicating a physical landmark. Example 022 shows it in a less concrete function, marking a nominal representing a model or ideal which guides behaviour.
016 angen ?orawetl?a-t ejmew-a-l?-a-t layen that.3sgABS person-3plABS arrive-E-NMZR-E-3plABS really n-ine-piri-gine-t / yatka-jpa n-ine-piri-gine-t / angen HAB-TR-take-3plO leg-ABL HAB-TR-take-3plO that.3sgABS ?iy-o-nely-o-caku alama / yatka-jpa n-ine-piri-gine-t / wolf-E-skin-E-INESS INTJ leg-ABL HAB-TR-take-3plO that.3sgABS n-ena-yatka-mla-genat jaale-jpa HAB-TR-take-3plO n-ena-yatka-mla-genat jaale-jpa HAB-TR-leg-break-3plO behind-ABL Those people coming to the herd, he simply took them by the legs he took them that is he in the wolf skin took them by the legs and broke them from behind.	020jara-yjetq-ə-le-rkənhouse-ORIENTINT-E-go-PROGGo guided by the house/ Go using the house as a landmark.[nb59]The orientative is not inherently directional. In example 020 the noun jarayjetindicates a direction which can be calculated according to the position of the house;this may not be in the direction of the house itself.021021mec-n-erm-?ewn?-ə-twa-y?a-nwit-tkan/n?-ena-nm-ə-y?a-n=?m/yamninaweke-jp-a-nb2-PROGCOND-TR-kil-E-TH-3sg=EMPHtsg-POSS.3sgABSbody-AUG-E-ABS
17 anpanacy-a-qaj j?o-nen <u>pely-epa</u> / wey-a-tku-nin old.man-E-DIM.3sgABS approach-3sgA.3sgO throat-ABL claw-E-UTIL-3sgA.3sgO tam-nen kill-3sgA.3sgO He approached the old man, clawed him by the throat, killcd him. [ot138]	yənan ?ən-cət?iw-ə-n 2sgERG COND-??-E-3sg If he were only a bit stronger, right through here is my heart / you could kill me / you could [skin?] my body. [jo029] 022 ənqorə gan [inutkuy?i?] remk-ə-n [taŋ#] emelke
in example 016 the third instance of the ablative, nenayətkamlaqenat jaalejpə the broke their legs from behind, is another example of 'motion/action directed away from a source'.	then DEICT [] folk-E-ABS [] as.if <u>cimy?u-yjit</u> n-?-ə-twa-?a-n / ənqen kolqocat-ə-tko-y?e thought-ORIENT INV-COND-E-be-TH-COND that.3sgABS collectivise-E-ITER-TH əməl?o=?m all.3ABS=EMPH Then the people would live as if according to their thoughts [i.e. the way they
The perlative case marks a nominal as a path followed:	wanted], they all had joined the collective farm. [he018]
18 wane wanewan wanewan n-a-pönge-?a-n INTJ NEG.NFUT NEG.NFUT INV-E-turn.around-TII-3sg <u>anay-r?et-jekwe</u> layen mat-kawra-mak gan nemaqej gan 3sg-path-PERL really 1pl-circle-1pl DEICT also DEICT Oh no, he didn't turn around halfway, we too did the circle following his tracks. [cv149]	15.2.6 Inessive -cəku The inessive marks location inside a nominal. This may be statill (as in 023) or dynamic (024). 023 ənka-tkən-ə-k n-ə-wak?o-twa-qen <u>rənn-ə-cəko</u> the IOD 5 100 100 5 th 05000 100 100 100 100 100 100 100 100 1
tracks. [cy149] ¹⁹ təle-neŋ-?etw?et <u>waam-jekwe</u> təle-rkən go-TOOL-boat iver-PERL go-PROG <i>The sailboat is going along the river</i> [ja11]	there-TOP-E-LOC HAB-E-sit-RESULT-3sg hom-E-INESS He was sitting there on top amongst the horns. [cy226] 024 qənwet qit-ə-w ² i-l ² et-ə-l ² -ə-n n-in-iw-qin "opopə finally freeze-E-die-INTS-E-NMZR-E-ABS HAB-TR-say-3sgO must
t is very rare as a case marker. Historically it is derived from the derivational uffix -jikwi (see §15.3.4) and the manner adverb suffix -j ^{-VH} (Skorik 1961:317); in	<u>yəm-ə-ke-cəku</u> wiin q-ə-n ⁷ el-γi" 1sg-E-TH-INESS awhile INT-E-become-TH

suffix -jikwi (see §15.3.4) and the manner adverb suffix -ŋ-VH (Skorik 1961:317); in Telqep Chukchi the -ŋ is usually lost, leaving the vowel harmony prosody as the only evidence that it was there. In a synchronic analysis of Telqep Chukchi the suffix -jekwe is an unsegmentable case affix.

15.2.5 Orientative -yjit

The orientative is very uncommon. It marks a nominal as a landmark or model by which the action of the verb is carried out. Example 020 shows the orientative

The sublative case **.jijkə** expresses the notion underneath:

be marked with all cases except the locative (§15.3.5).

15.2.7 Sublative -jiŋkə

Finally to the one who was always freezing she said "(You'd better) come inside me for the moment" [cy005]

There is also a formally identical inessive derivation, which forms stems which can

280.	Spatial Relationships				Chapter 15
025	[]	ləyen really	<u>ker-pətw-ə-jeŋkə</u> kerker-inner.layer-E-SUBLAT	n-ena-ly-enatzjórjw-ə-qen HAB-TR-INTS-put-30G-E-3sg	tekicy-e meat-INST
		ing-INST	[] at, other stuff under the :	inner layer of his kerker	[jo013]
026	qepəl ball		<u>?o-cq-ə-joly-ə-jeŋkə</u> RF-E-CONTAIN-E-SUBLAT		
	The b	oall is ur	nder the chair.		· [lv16]

15.3 Spatial derivations

Chukchi has a number of derivational suffixes which form nouns with spatial meanings from other noun stems. Forms with these derivations generally indicate a particular part of the nominal (top, side etc), rather than a spatial relationship that some separate object could enter into. However, spatially derived nominals frequently occur in locational cases. The derivations -tkan^{+VH} TOP and -gqac(a-) *SIDE* have a zero-derived absolutive form (see example 031, §15.3.2), which can make them look superficially like case markers.

15.3.1 'To' ' tkan-**

The derivational suffix -th:ən-*^{VH} derives a word meaning 'the top of [noun]'. The absolutive case of nouns formed by this derivation has no additional suffix, e.g. orw-ə-tkən (sled-E-TOP.3sgABS) *the top of a sled*. Other case forms are added to -tkən- in the regular manner. Example 027 shows -tkən- with the instrumental case, example 028 with the locative:

027	əcc-ena-ı 3pl-TH-think	cemy?c-ta -VBase	γ-urjel≁e COM-collect.fire	wood-VBase		<u>ə-qaj-ə-tkən-a</u> •DIM•TOP•INST	[]	
	On their	own initiativ	e collecting fi	rewood on	top of	little sleds	[ch23]	
028	ŋaryən outside	<u>?əlm-ə-tkən</u> heaped.snow-E	-TOP-E-LOC	rəm-ne stick-3sg/	A.3sgO	ənkə there		
	Outside .	he stuck it int	o the top of s	ome heaped	d snow	<i>.</i>	[ot038]	

15.3.2 'Side' -ŋqac(a-)

Nouns with the derivational suffix .ngac(a-) have the meaning 'the side of [noun]'.

029	ən-in 3sg-POSS.3	sgABS	nel:vəl?-ə-qej herd-E-DIM.3sgA		jara-ngaca-y house-SIDE-ALL	<u>tə</u> ənqen DEM.3sg/	/ ABS
	qənwer like	•	nin=?m sgA.3sgO=EMPH		<u>-nqaca-ytə</u> •SIDE•ALL	aytan-nen drive-3sgA.3sgO	
	His little house.	herd ju	ist up to the h	ouse	. finally he too	k it, and drove	e it up to the [ot099]

Although the terms are clearly related, the derivational suffix -nqac(a) differs from the spatial relationship postposition =qaca (§15.5). The postposition indicates a location with respect to an entity, whereas the derivational suffix indicates a part

Chapter 15	Spatial Re	LATIONSHIPS		281.
	http://Thus, jara-ŋqac/indicates	the side part o	of a house, and jarak	qaca
Example	130 shows a relational nominal	derived from th	he same stem as abov	e:
030 itək: so=El	IPH buried.thing-3pIABS house-SIC	DE-REL-3plABS	ləyen n-ena-yto-qe realiy HAB-TR-drag.ou	t-3pl
	[the bear] drags out the buried stores]	things from bes		en 2n036]
In the abs in exampl	olutive case a form derived with 031.	th this suffix ca	an be used like a adve	erb, as
reinde ŋew-	e-nm-at-γ?e / jaale-ŋqac er-kill-TH-TH back-SIDE.3sgA ?ətt?-ə-qej-e ŋewəcqet n	BS and I-ena-j?o-twa-qe		
The	e-dog-E-DIM-ERG woman.3sgABS H slaughtered reindeer out back,<br ed after the woman.	-	ed her with blood—th	e dog ke228]
15.3.3	'Edge' -lan/-ly and 'edge' -	curm-		
	-ləŋ-/-lɣ- förms a word meanin and -curm- indicates the edge 15.2).			
aŋk	m-curm-ə-n <i>the side of a river</i> a-corm-ə-n <i>the side के the sea (</i> -ə-lɣ-ə-n <i>the side of a lake</i> (bou	unbounded enti	•	
	orphy of -ləŋ-/-lɣ- is regular (a d by syllable structure and p	• -	-	

 $\{\text{SIDE}\} \rightarrow \begin{cases} -\log / _CV \text{ (e.g. example 032)} \\ -l\gamma \text{ elsewhere (e.g. example 033)} \end{cases}$

predicable:

The unpredictability arises when it combines with case markers which themselves have syllable-structure changing allomorphs. Example 033 has the -lag- allomorph with the locative suffix -ka^{-VH}, rather than the -lq- allomorph with -k allomorph of the locative; it is unclear why the combination of suffixes is realised -lag-ka rather than -lq-a-k. Likewise example 032 has -lq-eta, when -lag-eta seems an equally grammatical realisation of the underlying form.

h	erd-E-AUG-E-3sgAl	BS this.3sgABS	strange-E-herd-E-AUG-E-3sgABS	here
1	nemeqej also	yəty-ə-ləŋ-kə lake-E-EDGE-LOC		

That big herd, that big stranger-herd there, [was] also on the edge of the lake. [ot093]

282. SPATIAL RELATIONSHIPS Chapter 15	Chapter 15 SPATIAL RELATIONSHIPS 283.
033 yəmn-in neməqej yelwəl waj yutku 1sg-POSS.3sgABS also herd.ABS DEICT here yəty-ə-ly-etə t-ə-ra-n-1?at-en-y-ə-n / [] lake-E-EDGE-ALL 1sg-E-FUT-CS-go-TH-TH-E-3sg	with the locative case; this meaning is already expressed by the inessive case (see §15.2.6, example 023). The inessive derivation does combine with the allative (see below), despite the fact that the inessive case can also be used to indicate motion toward the goal (§15.2.6, example 024).
I'll also bring my herd here to the edge of the lake [ot083] The derivation -curm- on the demonstrative stem an- forms a compound stem ankecurm- that edge (with a thematic ligature affix -ke). Exchaple 034 has the relational derivation of this compound stem; ankecurmakin(e-) one/s from that edge, which in context means those from the other shore. 034 layi=?m know.VBase=EMPH simply and 3pl.ERG	INESSIVE DERIVATION + ALUATIVE CASE ana waj layen yanwer <u>omk-a-ca'a-yta</u> ekwet-y?i [] so DEICT really finally bush-E-INESS-ALL go-TH Well then, simply, finally she went into the bushes [ot133] 039 gew?en-e n-in-iw-qin / "iyat=?m waj yamo / wile-ERG HAB-TR-say-3sg now=EMPH DEICT 1sg.ABS rayjoly-a-cako-yta ne-r-upan?ali-jyam"
<u>on-ke-curm-o-kine-t</u> =?m DEM-TH-EDGE-E-REL-3pIABS=EMPH And they just know those from the far shore. [kr123]	hole-E-INESS-ALL 3pl-FUT-knock-1sg The wife says to him: "Now they'll knock me into the hole". [cy397] INESSIVE DERIVATION + ABLATIVE CASE
15.3.4 Perlative -jikwi- The -jikwi derivational suffix aiways occurs with some other case marking.	040 cə-tayr-at-ə-nw-epə t-ə-pkir-y?e-k ənŋe ŋan CS-edge-CS-E-PLACE-ABL 1sg-E-arrive-TH-1sg NEG.HORT DEICT <u>wenqora-iŋ-ə-cəko-jpə</u> ya-yto-len
usually absolutive (035) or locative (036): ¹³⁵ Jayen=?m tjan remk-ð-n w ² i-tku-r ² u-y ² i kolo really=EMPH DEICT folk-E-ABS die-ITEk-COLL-TH INTS <u>ra-jekwe-in-ð-</u> Jayen tan-ðmðl ² etð ujne n-ð-n ² el-qinet	doe-AUG-E-INESS-ABL PF-emerge-3sg "I have arrived from place where (the reindeer) are brought down"- In fact, he had come out from inside the doe. [cy012] In the following example the inessive + ablative occurs with look, a verb which indicates directed perception: [context]
So then masses of people died, encampments (rows of jaraŋəs) entirely passed away. [he012]	041 qut-ti joro-cəko-jpə n-ə-winw-ə-llep-qinet one-3pIABS sleep.chamber-INESS-ABL HAB-E-secret-E-look-3p! n-ajəlyaw-ə-l?at-qenat []
³⁶ n-in-iw-qin ləγen taŋ-qonpə <u>moo-r?et-jekwe-k</u> q-ə-le-rkən HAB-TR-saw-3sg really INTS-always caravan-path-PERL-LOC INT-E-go-PROG She says to him, "Just always follow along the caravan tracks". [jo018]	HAB-fear-E-INTS-3pl The others secretly looked out of the sleeping chamber, they were afraid [cy420
he perlative case suffix -jekwe^{+VH} is clearly related in form (historically derived form the same source *-jikwi^{-VH}-ŋ^{+VH}), but is synchronically a distinct forphological class (case suffix, not derivation; §15.2.4).	The inessive case suffix -cəku is discussed in §15.2.6.
 25.3.5 Inessive -cəku- The inessive derivational suffix forms a noun derived from a noun stem with the neaning 'the inside of [noun]'. In the following example the noun retem roof has his suffix to form a complex noun retem-cəku-t (here inflected with the bsolutive plural) meaning insides of roofs: 37 ənqena-t ləyen taŋ-wetyərə n-ena-yto-qenat DEM-3pl.ABS really INTS-directly HAB-TR-pull.out-3pl ənqen n-ine-new-qin ləyen retem-cəku-t DEM-3sg.ABS HAB-TR-pierce-3sg really roof-INESS-3pl.ABS 	15.4 Spatial relationship adverbs Chukchi spatial relationship adverbs encode many similar meanings to those encoded by locational case markers. When a spatial adverb modifies a nominal, the nominal is marked in the locative case, as in examples 042 and 043: 042 layen wenwa-jekwe winwa-k yaryoca layen really trail-PERL 15.4 <i>They smell their way] along the trail, above the trail.</i> 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 043 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 044 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 045 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 044 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 045 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 046 an-ka-tkan-a-k cek-yaryol qanut not c?enut / [] 047 an-ka-tkan-a-k cek-yaryol qanut not c?enut / []
They pull them out directly, they pierce the insides of roofs [aa6.21] nessive derivations frequently occur with directional cases, such as the allative [38-039] and the ablative (040-041) cases. The inessive derivation cannot combine	The most usual position for a spatial adverb in this function is immediately following the locative case nominal (see comments on the grammaticalisation o

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82. SPATIAL RELATIONSHIPS Chapter 15	Chapter 15 SPATIAL RELATIONSHIPS 283.
33 yəmn-in neməqej yelwəl waj yutku 1sg-POSS.3sgA3S also herd.ABS DEICT here yəty-ə-ly-etə t-ə-ra-n-1?at-en-ŋ-ə-n / [] lake-E-EDGE-ALL 1sg-E-FUT-CS-go-TH-TH-E-3sg	with the locative case; this meaning is already expressed by the inessive case (see §15.2.6, example 023). The inessive derivation does combine with the allative (see below), despite the fact that the inessive case can also be used to indicate motion toward the goal (§15.2.6, example 024).
I'll also bring my herd here to the edge of the lake [ot083]	INESSIVE DERIVATION + ALLATIVE CASE
he derivation -curm- on the demonstructive stem an- forms a compound stem thecurm - <i>that edge</i> (with a thematic ligature affix -ke). Example 034 has the	038 ano waj loγen gonwer <u>omk-o-coko-yto</u> ekwet-y?i [] so DEICT really finally bush-E-INESS-ALL go-TH
lational derivation of this compound stem; ankecurmakin(e-) one/s from that	Well then, simply, finally she went into the bushes [ot133
<i>lge</i> , which in context means <i>those from the other shore.</i> 4 ləγi≒?m elyuleg cama əcc∂nan	039 ŋew?en-e n-in-iw-qin / "iyət=?m waj yəmo / wife-ERG HAB-TR-say-3sg now=EMPH DEICT 1sg.ABS
4 layi=?m elyuleq cama accanan know.VBase=EMPH simply and 3pl.ERG <u>an-ke-curm-a-kine-t=?m</u>	<u>rəyjoly-ə-cəko-ytə</u> ne-r-upən?əli-jyəm" hole-E-INESS-ALL 3pl-FUT-knock-isg
DEM-TH-EDGE-E-REL-3plABS=EMPH	The wife says to him: "Now they'll knock me into the hole". [cy39]
And they just know those from the far shore. [kr123]	INESSIVE DERIVATION + ABLATIVE CASE
5.3.4 Perlative -jikwi-	040 cə-tayr-at-ə-nw-epə t-ə-pkir-y?e-k ənŋe ŋan CS-edge-CS-E-PLACE-ABL 1sg-E-arrive-TH-1sg NEG.HORT DEICT
e -jikwi derivational suffix always occurs with some other case marking, ually absolutive (035) or locative (036):	wengora-jŋ-ə-cəko-jpə ya-yto-len doe-AUG-E-INESS-ABL PF-emerge-3sg
layen=?m nan remk-a-n w?i-tku-r?u-y?i kolo rea‼y=EMPH DEICT folk-E-ABS • die-ITER-COLL-TH INTS	"I have arrived from place where (the reindeer) are brought down"- In fact, he had come out from inside the doe.
<u>ra-jekwe-jŋ-ə-t</u> ləyen taŋ-əməl?etə ujŋe n-ə-n?el-qinet house-PERL-AUG-E-3pl.ABS really INTS-all.ADV NEG.EXI HAB-E-become-3pl	In the following example the inessive + ablative occurs with <i>look</i> , a verb when indicates directed perception:
So then masses of people died, encampments (rows of jarayas) entirely passed away. [he012]	041 qut-ti joro-cəko-jpə n-ə-winw-ə-llep-qinet one-3pIABS sleep.chamber-INESS-ABL HAB-E-secret-E-look-3pl
n-in-iw-qin ləγen taŋ-qonpə <u>moo-r?et-jēkwe-k</u> q-ə-le-rkən HAB-TR-saw-3sg really INTS-always caravan-path-PERL-LOC INT-E-go-PROĞ	n-ajəlyaw-ə-l?at-qenat [] HAB-fear-E-INTS-3pl
She says to him, "Just always follow along the caravan tracks". [je018]	The others secretly locked out of the sleeping chamber, they were afraid
e perlative case suffix - jekwe^{-vH} is c learly related in form (historically derived m the same source *-jikwi^{-vH}-ŋ^{-vH}), but is synchronically a distinc t	[cy42] The inessive case suffix -cəku is discussed in §15.2.6.
phological class (case suffix, not derivation; §15.2.4).	
	15.4 Spatial relationship adverbs
.3.5 Inessive -coku- e inessive derivational suffix forms a noun derived from a noun stem with the	Chukchi spatial relationship adverbs encode many similar meanings to tho encoded by locational case markers. When a spatial adverb modifies a nominal, th nominal is marked in the locative case, as in examples 042 and 043:
aning 'the inside of [noun]'. In the following example the noun retem roof has	
suffix to form a complex noun retem-cəku-t (here inflected with the plural) meaning <i>insides of roofs</i> :	042 layen wenwa-jekwe <u>winwa-k yaryoca</u> layen really trail-PERL trail-LOC above really
· · ·	[They smell their way] along the trail, above the trail. [ab3.0
ənqena-t ləyen taŋ-wetyərə n-ena-yto-qenat DEM-3pl.ABS really INTS-directly HAB-TR-pull.tr:t-3pl	043 <u>ən-ka-tkən-ə-k</u> <u>cek-yəryol</u> qənut ŋoot c?enut / []
əngen n-Ine-new-gin ləγen retem-cəku-t DEM-3sg.ABS HAB-TR-pierce-3sg really roof-INESS-3pl.ABS	DEICT-TH-TOP-E-LOC INTS-above like DEICT something.3sgABS Right on the top of that yonder there's something [kr09
They pull them out directly, they pierce the insides of roofs [aa6.21]	The most usual position for a spatial adverb in this function is immediate

Inessive derivations frequently occur with directional cases, such as the allative (038-039) and the ablative (040-041) cases. The inessive derivation cannot combine

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The most usual position for a spatial adverb in this function is immediately following the locative case nominal (see comments on the grammaticalisation of

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postpositions, §15.5). Example 044 shows a cluster of spatial adverbs modifying a locative case nominal, both preceding and following it:

044	[]	1	<u>kamlela</u> around	<u>jara-k</u> house-LOC	<u>camce-qej</u> close-DIM	<u>kamlelə-ŋ</u> around-ADV	1		
	oleni		qora-ŋə	•••	•nm•ə•tko-le	n			
	reindeer		reindeer-3sgABS	PF-INTS	-kill-E-ITER-3sg				
	all around the house close up they killed reindeer								

[ka07]

Spatial adverbs are not always modifiers of nominals; they can modify entire clauses (045), or act as locative complements (046, 047).

G45	ewər 50		alqag-ə-nxvə-k site-E-PLACE-1.00		<u>ten-em-camce</u> INTS-REST-close		
		rewik-w?e JT-make.camp	layen TH really	-	<mark>iw-ə-rkən-et</mark> FUT-say-E-PROG-3	ee pl INTJ	mən-rewiw 1pl.INT-make.camp
	And a make		psite I'll make	ust say to ti	hem, "Hey, let's [jo019]		
046	ewən INTS	ŋelwəl herd.3sgAB	<u>kamlela</u> S around	1	is-ə-twa-qen HAB-E-be-3sg	STADO herd	
	It turn	ed out the l	herd was all a		[ka22]		
047	[]	/ ləyen really	•	ləye-tarj-kovvlokā <u>šamlela</u> INTS-INTS-circularly around			q-ə-£²-ə+n SE-E-NMZR-E-3sgABS
	[the	re were] sto	nes all aroun	d the e	edge.		[kr097]

Adverbs encoding spatial relationships include yaryol, yaryoca above, ?att?ajoca in front of, ramayta behind, beyond, kamlela(ŋ) around, and camce(qej) close to.

The forms yaryol and yaryoca seem to be used interchangeably. The form yaryol also has a final a when the form is suffixed, which suggests that the two forms are a lexical pair formed by the c-l alternation, and not words formed by two different suffixes. Both these forms can take ablative and allative suffixes to derive the adverbs yaryola-jpa/yaryoca-jpa from above and yaryola-yta/yaryoca-yta upwards.

Spatial adverbs can take various case markers as derivational suffixes; most common are the ablative suffix -jpp and allative suffix -ytp, indicating direction of motion. Spatial adverbs can be nominalised, usually by the relational suffix -kin(e-), or by a nominal spatial derivational suffix (§15.3). The following example shows these strategies combined:

048	ənkə	<u>rəmaytə-nqat-ken</u>	r?enut	janr-omk-oom	ənkə
	there	BEYOND-SIDE-REL.3sgABS	something	separate-forest-REDUP.3sgABS	thère
	ənqen	ya-taran-len	?inə		
	DEM.3sgAl	BS PF-build.house 3:-1	wolf.3sgABS		

There on the opposite shore in the scrub there a wolf built its house. [an136]

The word rəmaytəŋqatken has the morphological source rəmaytə beyond, -ŋqac SIDE (nominal derivational suffix), and -kin(e) relational suffix.

15.5 Postposition qaca 'near'

The postposition qaca *beside* is problematic for analysis. It usually occurs as a free word immediately preceded by a locative case nominal: this is the behaviour of a postposition. There is also a derivational suffix -ŋqac(a-), which has a very similar meaning (see §15.3.2). Words with this derivational suffix occasionally seems to act like a clause adjunct with locational meaning, i.e. it sometimes seems to be a locational adverb.

Examples 049 and 050 show the pure postpositional form of gaca:

049	?era∙yala•y?e gallop-pass•TH	<u>tətl-ə-k</u> door-E-LOC	<u>gaca</u> beside.PP	nəwil-y?i stop-TH	Cəkwaŋaqaj personal.name.3sgABS	
	He galloped pa	ist, next to ti	he door Cak	wayaqaj sto	pped	[cy310]
050	ye-mec-ejmew PF-APPROX-approa neme <u>new?e</u> again wife-E-L	nch-3pl hous n-a-k gao	a-k=?m ;e-LOC=EMPH <u>ca</u> wal de.PP sit-T	k²ò-γ?e		
	They started g	etting close l	o the house	e, again he w	vas sitting next to his	s wife. [cy384]
In e	xample 051 the	nostonsitio	nal nhrase	occurs with	h a nominalised for	m of the

In example 051 the postpositional phrase occurs with a nominalised form of the existential copula/auxiliary verb to form the complex nominal kantorak quea wal? at the ones beside the office.

051 Kejŋ-ə-wilu=?m wakw-a-t iyət-kine-t kantora-k office-LOC bear-E-ear-EMPH now-REL-3pl DEICT stone-E-3pl <u>wa-l?-ə-t</u> wəkw-ə-jŋ-ə-t ənŋin mejŋ-ə-l?-ə-t qaca beside.PP be-PCPL-E-3pIABS stone-E-AUG-E-3pl thus big-E-NMZR-E-3pl Bear Ears, the stones, like the big ones now which are beside the office [of Sovxoz Kanchalan], they're that big [be035]

The postposition can sometime be marked with a nominal case marker like a spatial adverb, particularly the allative ending - γ tə. The lexical complement of the postposition must still occur in the locative case², e.g.:

² The relational-derived form qacaken in the following example seems to be functioning as a nominal. It is unusual in that it does not have an associated locative nominal.

056	ənŋatal INŤJ	⁷ атэл INTJ	qel?u because	waj DEICT	ujne NEG.EXI	qetew ??	<u>rəly-ə-ly-ə-n</u> toe-E-SING-E-ABS
	<u>gaca-ken</u> beside-REL.3			ku•jw-ə• ŀINTS•E•SI		int-ə-tku-j row-E-ITER-I	jw-ə-k NTS-E-CONV
	So that's l of the cho				s missing	, one toe f	rom one side, because [cy442]

The intention here seems to be 'because when they disposed of the rest of his remains they missed the toe, Cəkwaŋaqaj was able to return from the dead'. It seems that qacaken one from beside and rəlyəlyən finger/toe are both independent nominals in a noun phrase, rather than together forming a postpositional phrase.

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052	orw-ə-t sled-E-3plABS rə-1?at-en-ne CS-steer-TH-3s <u>c</u>		wajənrelə thither	<u>ajmak-ə-k</u> carcass-E-LOC	<u>gaca-ytə</u> beside-ALL			
	_		ds there to th	e corcasses.		[cy437]		

15.6 Deictic adverbs

As well as the demonstrative pronouns, there are two indeclinable groups of deictic words. The deictic adverbs are formed from the same stems as the demonstrative pronouns, but are derived with non-nominal derivational suffixes and function as sentence adjuncts. The deictic clitic-particles are also invariant, but have no morphological structure and usually have syntactic scope over a single word only.

The morphological structure of deictic adverbs is partially regular, but there is no evidence that these forms are productive. Most of the deictic adverbs are formed on the basis of the same stems as the demonstrative pronouns (§7.4); the one exception is the interrogative/indefinite (pronoun stem is mik-, deictic adverb stem is mig-). The roots of the deictic adverbs are:

- jut- near
- ŋen-^{-vn} far
- ŋaan-, ŋoon- *very far*
- mig- where?, somewhere (interrogative/indefinite)

There are also deictic adverbs derived from the root an-VH, which is also root of 3rd person singular personal pronouns and of the discourse-specialised, non-distance graded demonstrative. Deictic adverbs formed from an are partially interchangeable with the nut- here adverbs, but an- forms are also used in organising discourse, acting as conjunctions, etc.

The least morphological'	rular of the deictic adverbs indicate the same spatial
relationships as the non	ocational cases LOCATIVE, ALLATIVE and ABI ATIVE.

FIGURE 15.3.	Deictic au	- locative, allative, ablative.					
······	ən- ^{-vn} unspec.	ijut- near	ŋen- ^{-vn} far	ijaan-, ijoon- <i>very far</i>	miŋ- (some)where?		
Locative -kə, -ku	ən-kə	ŋut-ku	ŋen-ku	jjaan-kə jjoon-kə	miŋ-kə		
Allative -kəri, -ri(lə)	(waj·ən·re, waj·ən·relə)³	ŋut-kəri ŋut-ri ŋut-rilə	ŋen-ri ŋen-rilə	ŋaan-re naan-rela	miŋ-kəri		
Ablative -qo(rə)	ən-qo(rə)	ŋot-qo(rə)	nan-qo(rə)	ŋaan-qo(rə) ŋoon-qo	meŋ-qo(rə)		

³ These two forms only occur with waj, otherwise a deictle particle. The vowel harmony on the final morpheme shows that these are entire words, not phrases.

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The various alternative forms (for example <code>jutkəri-jutri-jutrilə hither</code>) seem to be in free variation. The gaps in the paradigm have been thoroughly checked and seem to be real gaps in the language, not just in the data.

The locatives yutku here and yenku there have a suffix unique to these deictic adverbs. The other locative types anka here/there, yaanka/yoonka yonder and migka where?/somewhere have endings which are formally identical to one of the allomorphs of the locative case (but note that the locative case form of the 3sg personal pronoun is anak, not anka; §7.2).

The allative and ablative adverbs are formed by suffixes which are completely unrelated to the case forms with these meanings. Interestingly, the ablative deictic adverb forms have the same polysemy as the ablative case; apart from (i) 'motion from a source', ablative also indicates (ii) 'motion around inside an area', and also (iii) 'attachment from a point', e.g.

i) qəty?i (jarajpə/ŋotqorə) he set off (from the house/from there).
ii) nəlejwəqin (notajpə/ŋotqorə) he roamed (around the land/around there)
iii) pirinin (yətkajpə/ŋotqorə) he grabbed it (by the legs/there)

Example 053 shows a deictic adverb with the $-qo(r_{\theta})$ indicating 'motion around an area'. The collapse of this meaning with meaning 'motion from a source' is a characteristic feature of Chukchi.

053	apaapay-ləŋ-ə-n	anqora	n-ə-lejw-ə-qin	
	spider-SING-E-3sgABS	ABL.DEICT.ADV	HAB-E-roam-E-3sg	
	There was a spider	walking there.		[cy208]

See also the discussion of the ablative case, §15.2.3.

The demonstrative pronouns gangen that there and gaangen that yonder are also sed as directional adverbs indicating 'motion towards':

054	[]	1	<u>nangen</u> thither	-		ye-Iqən-muri PF-sei.olf-1pi	
	เห	e we	nt there to	the spirit	ts		[cy:126]

Other deictic adverbs are formed by a thematic suffix -ke (which also occurs with personal pronouns) and a derivational suffix; INESSIVE -cəku, e.g. ŋankacəko *inside there*, ORIENTATIVE -yjit, e.g. ŋutkeyjit according to this, and PERLATIVE -te, e.g. ŋoonkata along there yonder.

FIGURE 15.4. Deictic adverbs - inessive, perlative, orientative.

	จก- unspec.	ŋut- near	ŋen- far	ŋaan-, ŋoon- <i>veгy far</i>	min- (some)where?
INESS	(ən-ke-cəku)	ŋut-ke-cəku	ŋan-ka-cəko		
PERL	ən-ke-te	ŋut-ke-te		ŋoon-ka-ta	miŋ-ke-te
ORIENT	(ən-ke-yjit)	ŋut-ke-yjit			<u> </u>

Note that the inessive and orientative suffixes are the same as the case suffixes (and therefore the predicted adverb forms $\partial nkec\partial ku$ and $\partial nkecjit$ are

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indistinguishable from third person singular personal pronouns). The -te suffix of the perlative is not a nominal suffix. It is formally identical to the postvocalic allomorph of the ergative/instrumental, but does not have any functional link to this. Nominals have a perlative case indicated by the suffix -jekwe^{•VH} (§15.2.4).

There is also a form migkemil how many?, how much?, which would seem to be a derivation from the indefinite/interrogative locational stem with the manner adverb suffix -mil. However, the meaning how many?, how much? for migkemil is not what would be predicted from this morphological source.

Adverbs may form the heads of compounds, but in such a function are difficult to distinguish from locational case suffixes and locational derivational suffixes. The following example shows a deictic adverbial genri *thither* with an incorporated adjective ure *long distance, long time.*

 055
 manne
 n-in-?emet-qinet
 menku
 layen
 n-ine-tril-qinet
 ure-menri

 yonder
 HAB-TR-drag-3pl
 there
 really
 HAB-TR-put-3pl
 far-thilter

 He dragged them far away, put them there over that way
 [cy436]

There are three deictic particles, ŋan, ŋoot and waj/raj. These have deictic meanings, usually with scope over an adjacent word. They can be phonologically joined to an adjacent particle, with word internal phonological processes attested at the juncture (e.g. cin-ŋān < cit ŋan). The conditions for determining the ordering of the particles are unclear (see example 058, which has both orders, ŋanqəyite and qəyiteŋan).

The clitic/particle nan is also clearly related to the deictic adverb stem nen- there.

		-	-			5
056	kejŋ-ə-t bear-E-3plABS	<u>nan</u> DEICT	jəlqat-ə-ŋŋo-k sleep-E-INCH-SEQ	r ⁷ enut something	<u>ņan</u> DEICT	n-ə-nu-jw-ə-qin HAB-E-eat-COLL-E-3sq
	Bears on sta	rting to	hibernate eat son	nething		[an056]

In spontaneous texts nan is very frequently used with deictic adverbs, where it seems to be emphatic:

Ù57	ŋanqen DEM.3sgABS	<u>nan</u> DEICT	?ire-Iqət-y?i gallop-set.olf-TH	
	So that one	there ra	ced off.	[cy140]

The word gan can cliticise to any word. Examples 056 and 057 show it with nouns and pronouns, example 058 shows it with verbs, and example 059 shows it with a temporal adverb and an intensifier particle.

058	luut suddenly Atej! grandfather	Cakwaŋaq personal.name // .VOC	-	qolento-y⁷e speak.up-TH	"okkakoji INTJ	ŋan-qəyite DEICT-look!
	qəyite-na look!-DEIC Sudden there con	r alı	nmec leady g <i>aj spo</i> r wife! "	new?en.qej wile-DIM.3sgABS ke up "Goodness	n-ə-le-qin!" HAB-E-go-3sg :/ Look at thai	t! Grandfather! Look [cy411-412]

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059 ənk?am ənd	i ləyen really n-ə-mk-ə-cy	<u>nan-cit</u> DEICT-firs		<u>kolo-ŋan</u> INTS-DEICT			
	E-COLL-E-AU	·	• •				
		•		lots of setti	lements [th	ere]	[he009]
	ajənrelə d nən-jalyən- pl.INT-move.ca	mək e	eryatək		•	-	uu <i>i)</i> .
mən-jal	pi.iwi-move.ca Iyən-mək ove.camp-1pl	ənqorə	mən-	r?ile-mək -race-1pl	Sagnuy	UKU.24	
Тот		move car	np, tomo	orrow we'll i	move camp	a little over	• that [cy346]
Note that the without waj)		•	-	-	adverb *ə	nre or *ən	relə (i.e.
061 waj-ənd DEICT-DE	-	waj DEICT					
04.01 04	:w.227402	DEICI					

The particle waj is also an emphatic interjection, which seems to express surprise or that something is counter to expectation:

062	n-iw-qin HAB-say-3sg	Cəkwar personal.n		n-iw-qin HAB∙say-3sg	atca aunt-	j•qaj DIM		
	waj-waj EMPH-EMPH	muri IplABS	waj! EMPH	mət-jen-m 1pl-come-1pl	ək	waj EMPH	1	[]
	He says, Ca	okwayaqa	j says:	"Aunty, hey, i	it's us	:! We're	e cor	ning back now*

[cy426]

There is also a deictic particle goot *this here*, which has the same sort of locative meaning as the -kə/-ku suffix adverbs. This form is frequently used in place of the demonstrative gotgen *this* in absolutive noun phrases, and seems to have the same modifier-head relationship with it that gotgen would:

063	ii	itək-ewən	<u>ŋoot</u>	milyer	t-ə-piri-γ ⁹ e-n	
	yes	so-INTS	DEICT	gun.3sgABS	1sg-E-lake-TH-3sg	
	Yes	, well it's like	I've taken	the gun here.		[ke093]

Apart from the interrogative/indefinite stem mig- where?, somewhere, there exists a spatial interrogative particle ?emi where?.

064	əmmemejl Mummy,VOC!		ŋely-ā-n? hide-E-3sgABS	
	Mummy, wh	ere's the	hide?	[ot042]

Unusually for an interrogative, this word does not also have indefinite meaning (but see ?emitri/?emicci somewhere, below). There also exist several forms of ?emi fused with 3sg personal pronouns. The form ?emitlon (<*?emi-ətlon; the use of

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	n 3sgABS as stion:	s an empha	itic particle	is discussed ir	n §7.2) makes	an emphatic	
065	iw-nin say-3sgA.3sg0 <i>He said to h</i>	"naqam ^{but}	<u>emition</u> where? on-earth's th	qol QUANT.3sgABS ne other boy?"	ŋinqej?" boy.3sgABS	[ke045]	
The adve		/?emicci (<	ətri/əcci 3 _l	pIABS) somewh	<i>here</i> is an inde	finite spatial	
066	?emitri y	ekeŋ·ə·l?-ə-t	y-an	ecat-lenat			

somewhere race-E-PCPL-E-3pIABS PF-disappear-3pl
The sled drivers disappeared from view somewhere [cy097]

Unlike the other words formed with ?emi, ?emitri/?emicci cannot be used interrogatively.

16

Adjectives & numerals

16.1 Introduction

Adjectives and numerals are two minor word classes which occur as free words in the same syntactic contexts as absolutive case nominals; they can act as S/O arguments of verbs, and can appear in absolutive NPs as modifiers. They do not however take any other cases. The class of numerals is closed: new words representing numerical concepts enter the nominal class. The adjective class is large (perhaps several hundred stems), but probably also closed; there is no evidence of adjectives being borrowed, whereas nouns and verbs are borrowed freely.

16.2 Adjectives

Adjective stems are an intermediate class between nouns and verbs indicating nominal properties. Adjective stems can be incorporated into nouns as modifiers, or may be marked as one of several different word classes in different functions, as summarised below:

FIGURE 16.1. Adjective functions.

	Attributive function	Predicative function
Incorporated Adjective	yes	no
Free Adjective	absolutive NP only	unmarked TAM only
Deädjectival Verb Base	no	marked TAM only

•Incorporated Adjectives. Adjective stems must be incorporated when functioning as modifiers of non-absolutive case nouns. They are also incorporated by absolutive nouns when referring to entities of low discourse salience. Incorporation of adjectives in discussed in §9.4.

•Free Adjectives. Free adjectives have distinctive morphological marking, consisting of the prefix n-^{VH} and a person-number suffix (§16.3). Free adjectives can function attributively in absolutive case NPs, and function predicatively with unmarked tense-aspect-mood reference (realis, positive polarity, universal stative

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[ot002]

type tense-aspect). Only deadjectival verb bases can function predicatively with marked TAM (§16.4).

•Deädjectival Verb Base. Deädjectival verb bases are marked with the circumfix n-___-?ew-VH or the suffix -ytə. They form the lexical heads of analytic verbs, with an auxiliary encoding TAM categories. Like other members of the verb base class, deädjectival verb bases can also act as sentence adverbs (§13.5, §16.5).

Apart from these three main derivatives of adjective stems there are also the following types:

•Negative Verb Base. Adjective stems can be negated by the negative circumfix e-___-ke to make negative verb bases. Deadjectival negative verb bases form analytic verbs with the auxiliary -twa- (see §17.3.1). Negated attributive adjectives are nominalised by the affixes e-___-ko-1?-in(e-) (§18.7.2).

•Comparative Verb Base. Adjective stems can form comparative predicates. The adjective stem forms a verb base with the suffix -ŋ (§16.6).

The adjective stem class is large (hundreds of members), but may not be open. I have never observed a borrowing being used as an adjective, even though Russian words are frequently used as nouns and verbs with full Chukchi inflectional and derivational affixation (§1.2.2).

16.3 Free adjectives

The Chukchi *adjective* is a word class distinguished by a distinctive set of morphological markings which occur in a limited syntactic environment. These morphological markings are similar, but not identical, to the habitual verb markings, and both adjective and habitual verb markings encode habitual or universal tense.

The free (habitual/universal tense) person-number paradigm for adjectives (compare §10.3.2) is shown in fig. 16.2:

FIGURE 16.2. Free adjective paradigm: mein- big

	singular	plural
1st person	n-ə-mejŋ-iyəm	n-ə-mejŋ-ə-muri
2nd person	n-ə-mejŋ-iyət	n-ə-mejŋ-ə-turi
3rd person	n-ə-mejəŋ-qin	n-ə-mejəŋ-qine-t

Free adjectives function as attributes in absolutive case noun phrases (001), and as TAM-unmarked predicates (002):

001	cakəyet=?m	ətlenju-qej	<u>n-ə-ppəlu-qin</u>				
	sister=EMPH	younger.brother-DIM.3sgABS	ADJ-E-small-3sg				
	[There was] a sister and a small younger brother.						

002 wacaq layen ok kako aləmə=?m ?inə n-ə-ml<u>-ə-qe</u>n INTJ really INTJ INTS INTJ=but wolf,3sqABS ADJ-E-agile-E-3sg Oh look, oh, but the wolf is agilel [kr155] In short sentences it can be difficult to distinguish attribution from predication, since a lone noun phrase can be used in a zero-copula existential construction (see also §17.2.4):

003	<u>n-ə-mejəŋ-qin</u>	pcecem	
	ADJ-E-big-3sg	sausage.3sgABS	
	[They were] big s	[ke268]	

Free adjectives very occasionally seem to function as absolutive case nominals (substantive adjectives), as in the following example, where the adjective namkaqin *many* is in the O role of the verb anmaka *don't kill*:

004	ə∴qen=?ı this=EMPH	n qənur / like	ratanŋawŋən enough		ənŋe NEG.HORT	
	lərniye repeat	<u>n-ə-mk-ə-qin</u> ADJ-E-many-E-3sg	<u>a•nm-ə-ka</u> NEG-kill•E•NEG			
	That's li	ke, enough, don'i	t repeat it, don't k	ill lot	<i>s</i> .	[jo070]

However, it is not possible to show that this is true substantivisation. It is impossible to produce non-absolutive adjectives, which better supports a hypothesis that examples like 004 are just ellipsis of a noun head.

Adjectives do not occur as the heads of compounds (§12.3). However, the nominal collective suffix -mk COLL (§8.10.1) is formally identical to the adjective stem mkmany.

NOMINAL DERIVATIONAL SUFFIX -mk COLL

005	cin≂ŋan	ŋotqen	jara-	<u>mk-</u> ə·qaj		1		
	first=DEICT	DEM.3sgABS	house	COLL-E-DIM.3sgA	BŚ			
	atr?ec	am-aŋqa-corn	n-ə-k	wa-l?-ə-t	1	jara-tko-qay-te		
	only	REST-sea-EDGE-	E-LOC	be-NMZR-E-PL		house-COLL-DIM-3pIABS		
	t?er-kine	t [?] er-kine-qey-ti jara-t= [?] m						
	few-GEN-Di	M-3pIABS house	e-3piABS	=EMPH				
	In the be	In the beginning there was only that little group of houses on the seashore, a						
	little bunch of houses, a few little houses. [he048							

The word jara-mk group of houses cannot be considered to be a compound with an adjective head because the .-qej^{-VH} diminutive suffix: shows that this word is morphologically a noun (word class and other syntactic features are determined by the head of the compound).

16.3.1 Derivation

Verbs and adjectives share a number of superficially identical derivational alfixes. However, derivational affixes attach directly to verb stems, whereas derivational affixes on adjectives attach *cutsice* the adjective markers. This is illustrated with adjectival and verbal diminutives and augmentatives in fig. 16.3 below. The derivational affixes follow the person number agreement suffix of an adjective, but they precede the agreement suffix of a verb (verbal diminutives and augmentatives also have the thematic verbal suffix -et attached to the morpheme). If adjective

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markers are considered to be inflections then this would be an instance ci derivational morphology ordered outside inflectional morphology, which would be typologically very unusual. The forms are tabulated below. See also the examples: 006 for diminutive adjective and 007 augmentative adjective.

FIGURE 16.3. Adjectives and habitual verbs with derivational suffixes.

	PREDICATE ADJECTIVE	HABITUAL INTRANSITIVE
DIM	nqine-qej	nqeet-qin (-qeet < *-qej-et)
AUG	nqena-cy-ə-n nqena-jŋ-ə-n	ncyat-qen (-cyat < * -cy+ ^{VH} -et)

006 -	[]	qeluq=?m because=EMPH	-	pəlu-qine-qej -littlê-3sg-DIM	ројү-ә-qај spear-E-DIM.3sgABS	
	because of his spear is a tiny little one.					[ot108]
007	ut?əm-?etjiw-et-ə-l?et-y?i eqəlpe=?m tay-n-ə-qewre-qena-jŋ-ə-n tentpole-bundle-TH-E-DUR-TH quickly=EMPH INTS-ADJ-E-agile-3sg-AUG-E-3sg She bundled up the tentpoles quickly, she was pretty agile.				INTS-ADJ-E-agile-35g-AUG-E-3sg	ləyen really <i>[cy271]</i>

My text corpus contains no spontaneous examples of non-third person free adjectives with derivational morphology, and it is unclear how derivational morphology might interact with the pronominal suffixes.

16.3.2 Diminutives and augmentatives

The diminutive and augmentative derivational suffixes are the same as nominal diminutives (-qej-VH) and augmentatives (- c_{Y} -VH and - j_{Y} -VH). These affixes attach to the adjective after the suffix -qin(e-). As with nominals, the diminutive can be a word final affix, but the augmentatives can not. With the augmentative suffixes adjectives take nominal-type endings, -n for 3sg and -t for 3pl. While these word-final affixes are all formally identical with absolutive case forms of nominals, they cannot be considered so, as no other case forms can occur with adjectives¹.

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008	pojy-ott-ə-ly-ə-qaj	ləyen	<u>n-ə-ciwm-ə-qine-qej</u>	
	spear-wood-E-SING-E-DIM	really	ADJ-E-short-E-3-DIM	
	The spearshaft was a	short lit	tle one.	

[ot037]

¹ Such forms are exist in closely related languages, e.g. Zhukova (1980:65) reports 'extremely rare' occurrences of case-marked adjectives in Palana Koryak. These only occur in the locative, instrumental and dative cases, and have special pragmatic effect (possibly 'contrast', but the description is unclear), e.g.:

n-tor-lag-k rara-k jənet-ə-tkən ADJ-new-ADJ-LOC house-LOC live-E-PRCG He lives in a new house for It's a new house he lives inj [Zhukova 1980:65].

Char	nter 16		ADJECTIV	VES AND I	NUMERALS	295.
009	INTS-ADJ	erme-qine-qej -strong-3-DIM.3sg Ily pretty strong				[aa4.18]
	n-a-lye-	WITH AUGMENTA <u>n-ekw-ə-qema-jŋ</u> IS-ADJ-high-E-3-AUG	<u>-ə-n</u>	[] <u>ta</u>	NS a <u>y-n-ekw-ə-qena-cy-ə-n</u> TS-ADJ-high-E-3-AUG-E-3sg	
	It's rea.	lly very high I	's extren	nely higi	h	[ab2.10]
011	neme also	r?ejwet-y?e-t dismantle-TH-3pl	ləyen really	kolo INTS	n-ut?əm-ŋət-et-ə-l?et- HAB-tentpole-??-TH-3sg	qin
		- <u>qewre-qena-jŋ-a</u> DJ-E-skillul-ADJ-AUG-		orw-ə-k led-E-LOC	J - J - J	ut?əm-ə-t tentpole-E-3plABS
					and she took down all very skilful - and tied ti	

Derivational prefixes also occur outside the adjective marking prefix; see §16.3.3.

16.3.3 Intensifier prefixes

The intensifier prefixes teg- and nalyi- attach to the beginning of the entire adjective, i.e. prior to the n- prefix. This is different to the behaviour of the formally identical intensifier prefixes which occur with verbs, where they are attached directly to the stem, inside the verbal inflections. Thus, even though adjectives and verbs in the habitual form may be formally identical when they are underived, with derivations they are distinguishable:

FIGURE 16.4. Adjectives and habitu	al verbs with derivational prefixes.

	ADJECTIVE (-mk- many)	HABITUAL VERB (-lejw- roam)
underived:	n-ə-mk-ə-qin (ADJ-E-many-E-3sg)	n-ə-lejw-ə-qin (HAB-E-roam-E-3sg)
teg- intensifier:	tey-n-ə-mk-ə-qin (INTS-ADJ-E-many-E-3sg)	n-ə-teŋ-lejw-ə-qin (HAB-E-INTS-roam-E-3sg)
lyi- intensifier:	nəlyi-n-ə-mk-ə-qin (INTS-ADJ-E-many-E-3sg)	n-ə-lyi-lejw-ə-qin (HAB-E-INTS-roam-E-3sg)
mel- approximative:	mel-n-ə-mk-ə-qi (APPR-ADJ-E-many-E-3sg)	n-ə-mec-lejw-ə-qin (HAB-E-APPR-roam-E-3sg)

Intensifier ten-

012	ləyen	<u>tey-n-ə-mk-ə-qin</u>	ətr?ec	yəmnan	cəmqək	[]	
	reatly	INTS-ADJ-E-many-E-3sg	all	1sgABS	partially		
	There's a real lot, but I [know them] partially						[kr088]

The intensifier teg- also occurs with words from a wide range of word classes, e.g. nouns (§8.10.2) and verbs (§14.5.2).

294.

0

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•In	tensifi	ler r	ıəlyi-				
013	[]	1	<u>nəlyi-n-ə-mk-ə-qin</u> INTS-AD I-F-many-F-3so	new-ə-nju-1?-ə-n woman-E-seek-PCPL-E-3soABS	n-in-iw-qin HAB-TR-sav-3so		,

e g-ə-ra-yt-ə-tək / DOMOJ

INTJ INT-E-house-go.to-E-2pt homewards

... to many potential husbands she said, "Go home, go home" [ke175]

The intensifier prefix nalyi- seems to be derived historically from the intensifier prefix lyi-, which accurs with nouns and verbs, and repetition of the adjective prefix. With habitual verbs the lyi- prefix attaches directly to the stem, e.g. n-a-lyi-lejw-a-qin (HAB-E-INTS-walk-E-3sg) he walked a lot (see §14.5.2). Deadjectival adverbs formed by n-__-?ew also take the nalyi- form of the intensifier prefix, not lyi-. Note that other deadjectival adverbs do not; see example 023, which has the form laye-tag-a-g INTS-good-E-ADV.

•Approximative. The approximative prefix mel- is formally identical to the nominal approximative (§8.10.3). This prefix can have evidential meaning ('apparently') or can show that the property indicated by the adjective is incompletely evident:

014	VIDNO one.can.see	Čто that	mal-n-?omr-ə-qen ÁPPR-ADJ-ströng-E-3sg	
	You can se	e that it's	rather strong	[kr247]

The related mec- form of the approximative is not attested with free adjectives.

16.4 Free adjective predication

Most adjectival predications in texts refer to a property which exists concurrently to the reference frame. Such modally and aspectually unmarked adjectives occur in the special free adjective form. Adjective stems in the free form have morphology which is formally very similar to the morphological markers of the habitual tense aspect, as noted above (§16.3).

Most predicate adjectives in narrative texts are third person. Exceptions are either from quoted speech or incidental conversation. Example 015 comes from conversation between several speakers at a story-telling session discussing what they have already told and what more they will tell.

[ka31]

NON-THIRD PERSON ADJECTIVE

015	<u>n-in?-iyət</u> ADJ-quick-2sg	itək so	yət 2sg.ABS	ek-wəry-a=?m say-NMZR-INST=EMPH	wenlayi nevenheless
	n-ə-teleŋkin	e-tku-j	yət		
	HAP-E-tell.about	t.olden.da	/s-ITER-2sgS	5	
	You were qu	iick, bu	t neverthe	less remembered tales	s of the olden days.

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16.5 Deädjectival verb bases

When a predicate adjective is marked for aspectual or modal categories an analytic construction with deadjectival verb base and intransitive auxiliary verb (-twa- or $n^{2}e^{-1}$) is used. The usual deadjectival verb base derivation has the circumfix $n^{-2}e^{-2}e^{-VH}$, as illustrated by the following two examples:

016		<u>n-erm-?ew</u> •ADV-strong-ADV		<u>wa-y?a-n</u> AUX-TH-2/3s] g]			
	If yo	u were only a	bit stro	nger					[jo029]
017	[]	/ ənqorə then		era-yəry-ə d-NMZR-E-3:		wa-k=?r be·INF=EN		ləyen really	<u>n-ə-mel-?ew</u> ADV-E-well-ADV
	[#]	<u>n?-a-twa-rka</u> COND-E-be-3pl.1		wec?əm mäybe		ena-ytə ear-ALL	~	vəl?-ə-t= E-3plABS=	
	an	nd if all is suc	cessful,	all goes w	ell, th	ere would	be h	erds in	the next year. [he110]

Deädjectival verb bases can also act as sentence adverbs:

018	ənqen DEM.3sgABS	ləyen really		ənnin thus	[nənqer	ן [ləγen really	
	5	<u>əlyi-n-ə-</u> TS-ADV-na			u-lqəl-mi x-UT:L-ADV		ləle-mic eye-ADV	
	wətəcy-ə-n tunic-E-3sgABS		•	ənnu-qi oqether-3s				
	He just dre	w his ov	ertunic	togetne	er narrów	vly for	his eyes like this.	[kr139]
019		ben nqorə	et?o ?		leed au Voig	[#]	n <u>-Itc-?ew</u> MOD-determined-VBase	1
	n-ə-miycire	•	remk					
	ADJ-E-work-3sg)	folk-E-3	sgABS				
	And then th	ie people	e starte	d to wo	rk even n	iore de	eterminedly	[he057]

The suffix $-\gamma t \bar{\sigma}$ can also form deadjectival verb bases. This suffix has the same allomorphy as the allative case, and also forms verb bases from verb stems (see §13.5). The semantic difference is unclear.

16.5.1 Deädjectival verbs

Certain predicated properties indicated by adjective stems require word-class changing derivation to make the adjective stem into a verb. The most common of these is the suffix -twi, which derives an intransitive verb with inchoative meaning from an adjective (see also §14.4.2):

020	ii yes	q-ə-j?o-y-ə-n INT-E-go.to-TH-E-3sg	qənwer finally	<u>re-wulq-ə-twi-y?e</u> FUT-dark-E-INCH-TH	ənc?aq and				
	caj-ənqen DEICT-DEM.3sgABS								
	Yes, visit her now, for it will get dark soon								

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021 <u>jury-ə-twi-l?-i</u>		
crazy-E-INCH-PCP Rabid wolves	L-woll-E-3plABS [lit. wolves which had become crazy]	[kr137]

16.6 Comparative construction

The comparative construction is another deadjectival analytic verb construction using the auxiliaries -twa- (stative) and n?el- (inchoative). The verb base in a comparative construction is marked by the suffix - \mathfrak{y}^{+VH} (§13.5). The standard of comparison is not stated where it is clear from context:

022	caj-əŋqen DEICT-DEM.3sgS	nem also	-1-3 - 4	o-ə-ŋew E-woman	ar?ala quile	n-ə-pəcwetyaw-qen HAB-E-converse-3sgS
	ətlon=?m 3sgABS=EMPH	kitkit slightly	<u>ənp-ə-</u> ğ old-E-ADV	<u>wa-1?-</u> be-PCPI	<u>ə-ri</u> L-E-3sğABS	
	There's that o older [than m		an over th	ere too, s	she's quite	talkative. She's a little bit [kr177]

When an overt standard of comparison is given it is marked in the locative case, as in the following example (from a discussion of the culinary merits of ground squirrel meat compared to dog):

•	023	ZHIRNEN'KIE fat	<u>?att?-a-kine-k</u> dog-E-REL-LOC	<u>ləye-tağ-ə-ŋ</u> INTS-good-E-ADV	<u>wa-1?-a-t</u> be-NMZR-E-PL	
		They're fat. They	3	5		[kr160]

Example 023 also shows that adjectival/adverbial derivational prefixes can occur with comparative verb bases. Verb bases formed with -ŋ do not take derivational suffixes.

16.7 Numerals

The indigenous Chukchi numerical system is a base 20 system with elements of base 5. The numeral system includes *simple numerals* (single morphemes), *compound numerals* (numerals formed by compounding two simple numerals), and *analytic numerals* (numerals formed by phrasal combinations of simple and compound numerals). With numerals above 20 the system quickly becomes unwieldy, and the Russian decimal system is today widely used in its place; none of my texts include spontaneous usages of compound or analytic numerals².

² In the 1920s, and possibly earlier, there was a base 10 tallying system used by Chukchis and Koryaks (Stebnickij 1994:107). This may be an innovation from after Russian contact. The symbols are:

- l units
- × tens
- O hundreds

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Cardinal and collective numerals are similar to absolutive case nominals. They frequently act as modifiers in absolutive noun phrases, but can also act as absolutive case arguments. They cannot however be marked with any other cases or other nominal inflectional categories, and so are not nominals. The Chukchi cardinal numerals are used for counting and for general enumeration of entities. There are also derived series of words (numerals, denumeric nouns, and denumeric adverbs) which indicate number in particular functions:

- COLLECTIVE (number of entities in a group; divided into 'human' and 'nonhuman types, §16.11.1)
- ORDINAL (position in a sequence; §16.11.2)
- MULTIPLICATIVE (number of instances; §16.11.3)
- DISTRIBUTIVE (number of entities at a time; §16.11.4)

The collective derivations are numerals (they can function as absolutive case nominals, but not as other cases). The ordinal series are regular nominals, and the multiplicative and distributive series are denumeric adverbs.

16.8 Simple numerals

The simple numerals are shown in fig. 16.5:

FIGURE 16.5. Simple numerals.

one
two
three
four
five
ten
fifteen
twenty
how many?/so many

The numeral *two* has the **r~c** alternation between men's and women's forms, but the numerals *three* and *four* and the interrogative/indefinite do not. The bracketed endings only appear in the free rardinal numeral form, and disappear under incorporation of suffixal derivation. The forms for *ten*, *fifteen* and *twenty* have the cnding **-kin~-ken**, which is formally identical to the absolutive singular form of the nominal relational suffix (§8.7.2). The numeral *five* has the ending **-en**, which is formally identical forms of the possessive suffix (§8.7.1). While the numerals themselves are not nominals (they don't have case forms or number marking) they presumably are etymologically related to nominals³.

³ The numeral qlik-kin *twenty* is related to a stem *qlik meaning *man, male* (cf. qliket*marry a man*). Skorik relates both numeral stems mətləŋ- *five* and mənyət- *ten* to the stem məny-*^{vH} which means *hand* (Skorik 1961:387). This is unquestionably the case for

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16.8.2 Pronumeral t'er

The pronumeral t?er has interrogative (example 026) and indefinite (027) functions:

026	t?er how.many?	?əloŋet day.ABS		aa-y?a-n? se-TH-3sgO			
	How man	y days di	d It	take (lit. "use")	?		[na081:9]
027	l?eleŋit winter.ABS	əngin thus	1	əm-1?alaŋet REST-winter	t?er so.much	MESJAC month	jily-ə-n month-E-3sgABS
	Thus [in	the] winte	[ka06]				

Interrogative/indefinite pronumeral t?er can take normal numeral derivation, for example, the ordinal numeral deriving suffix -qew (see example 037, §16.11.2).

16.9 Compound numerals

Compound numerals are formed by a combination of simple numerals and/or other derivational morphology. *Six* and *seven* are formed by compounding the simple numerals *one-five* and *two-five*.

FIGURE 16.6. Compound numerals, 6 – 9.

ənnan-mətləy-en	six
ŋer?a-mətləŋ-en	seven
amŋəroot-ken	eight
qon?acyən-ken	піпе

The numeral amporootken *eight* (*em-ŋəro-jut-kin) is formed from the numeral ŋəro- *three* with the restrictive prefix em-, numeral distributive derivation -jut (§17.0) and the relational suffix -kin, indicating 'only the third', i.e. five plus three, a hand and three more fingers.

The numeral qon?acyanken nine is also morphologically complex. It includes the pronominal element qun-/qon- which indicates one (§7.5). Skorik (1961:388 note 276) states that middle element of qon-?acyan-ken means in a row, next to, related to the noun acyat line, row (plural acyat-te) and thus the entire word could be glossed one beside [the others], i.e. all the fingers except one. This would be a sensible semantic source for the word, but it is unclear why the word acyat should gain an initial glottal stop and exchange the final t for an n.

028	wanewan NEG.NFUT	ləyen / really	ləyen really	miŋkemil how.much	• •	ə-twa-len=?m E-RESULT-3sg=EMPH
	əry-in 3pl-POSS.3sgA		yən-ken l	j?ily-ə-n=?m month-E-3sgABS	ewər if	<u>gon?acyan-ken</u> nine-NUM
	ləyen=?m really=EMPH	ele-y summer-LOC	•	to-qen=?m / ear-3sg=EMPH	[]	
	No when t	hav'ya haan n	roanant s	o long when th	eir nine n	onths, if Ithey've

No, when they've been pregnant so long, when their nine months, if [they've had] nine months then in the summer they bear them [aa4.04]

Multiples of twenty are also formed by compounding:

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16.8.1 Loan numerals

Loan words with numeric meaning are all simple numerals or nominals. The most common is ticəc(u) thousand (< Russian 'tislačá'):

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024	• •	n-ə-qaa-nm-a HAB-E-reindeer-ki	-	ənqen DEM.3sgABS	ŋalwəl?-ə-cy-ə-n herd-E-AUG-E-3sgABS	1
	n-ə-tku-qin HAB-E-destroy-3sg	əməl?etə all.ADV	ticəcu thousand	ya-parol-ler POSS.PRED-ex		
	If they slaught more.	tered reindeer	, that hug	e herd, they v	viped out all thousai	nd and [he050]

Compare the absolutive plural form in example 036. Northern variants of Chukchi use tawcən *thousand*, which is an old loan from the period of English-language contact (§1.2).

In my experience numerals were most commonly used by Chukchi speakers with reference to sums of money. During the period of research the rouble had sufficient so much from inflation that it was necessary on a daily basis to talk of sums of money in the thousands and millions—this is only possible with borrowing of the Russian terms.

According to Soviet naming practices many entities were named with (Russian) ordinal numerals (especially herding brigades, settlements, schools). These terms are commonly used as unanalysed names. Russian gender agreement is usually ignored, and the form is used in the masculine, as in the following (Rus. ⁴pervij' *first*, 'vto'roj' *second*, ⁴tret^jij' *third*):

025	emelke seems	[#] /		-ə•1?-ə•n≈?m ZR•E•3sgABS=EMPH	vTOROJ∙∂-1?∙∂-n=?m second∙E•NMZR-E-3sgABS=EMPH
	Teyrənkee personal.name		// •Emph		TRETE-17-a-n gABS third-NMZR-E-3sgABS
	ənqen DEM.3sgABS	noro three		l²-ə-t=?m IpIABS=EMPH	
		-	The First', " the three		The Second'. ?Eqerulan had The [he031&032]

the numeral *ten*, although the details of the derivation are unclear. The numeral stem is manyat-, which looks like the plural form, but 'plural' is an inflection, and cannot act as part of a stem for the purposes of derivation. Probably the stem is synchronically unanalysable (and may be related to the dual number found in most Koryak dialects). There is no suggestion made of why the stem matlag-*VH should be considered cognate to this same stem, although Skorik makes a lot of the semantic basis of the lexical elements of numerical system, which are frequently related to counting on the fingers (Skorik 1961:386-388, esp. notes 273, 275, 276). It is conceivable that the lag element of the stem is related to the singulative (§6.3.3). The numeral kalyanken *fifteen* is also a relational form, but the stem kalyan- has no obvious etymological relationship to other stems, nominal or otherwise.

2	2	2
- 3	u	υ

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FIGURE 16.7. Compound nume	erals, 40 - 400.	
ŋireq-qlik-kin	40	
ŋəroq-qlek-ken	60	
ŋəraq-qlek-ken	80	
mətləŋ-qəlek-ken	100 .	
ənnan-mətləŋ-qəlek-ke	n <i>120</i>	
neraq-mətlən-qəlek-kei	n <i>140</i>	
amgeroot-qəlek-ken	160	
qon?acyan-qalek-ken	180	
mənyət-qəlek-ken	200	
kəlyən-qəlek-ken	300	
qliq-qəlik-kin	400 .	

It is possible that higher multiples of twenty can also be formed, but speakers disagree on the details of the system, particularly with respect to multiples of twenty by numbers represented by analytic numerals (see below, §16.10).

16.10 Analytic numerals

Numerals from 11 to 14 and 16 to 19 are formed analytically, with a phrase consisting of (i) either manyatken ten or kalyanken *fifteen*, (ii) a numeral from one to five representing the remainder, and (iii) the noun parol/pacol extra, remainder.

FIGURE 16.8. Analytic numerals.

mənyətken ənnen parol	eleven (ten, one remaining)
mənyətken gireq parol	twelve
mənyətken yəroq parol	thirteen
mənyətken gəraq parol	fourteen
kəlyənken ənnen parol	sixteen
kəlyənken jireq parol	seventeer
kəlyənken nəroq parol	eighteen
kəlyənken gəraq parol	nineteen

Likewise the factors of twenty from 220-280 and 320-380 are broken down into analytic complexes made up of (i) the numeral manyatqlekken 200 or kalyanqlekken 300, (ii) a compound numeral 20, 40, 60 or 80, and (iii) the noun parol.

All other numerals are formed by giving a factor of twenty and then the remainder (a simple, compound or analytic numeral from 1 to 19) as above. For example:

029	ŋər?a-qlek-ken	kəlyən-ken	ŋireq	parol		
	four-twenty-NUM	fifteen-NUM	two.NUM	extra		
	Ninety seven					

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030	kətlən-qlek-ken filteen-twenty-NUM	qlik-kin twenty-NUM	amgəroot-ken eight-NUM	parol extra	
	Three hundred ar	nd twenty elg	ht		

16.11 Numeral-specific derivation

There are a number of derivational affixes which only combine with numerals (including t?er *how much?/so much*). These forms are all suffixes; if they combine with an analytic numeral they go on the last word in the complex (usually parol/pacol).

16.11.1 Collectives: inanimate -jono and animate -ryeri/-ryeci

There are two derivational suffixes which form collective numerals, the suffix -jono which indicates a non-human collective, and -ryeri/-ryeci, which indicates a human collective. The collective numerals can act as absolutive case verbal arguments, but cannot take other case markings.

Non-human collective suffix -jono

031	ləyeri really	amnər?oot eight-COLL		qəmey-luu even-suddenly		<u>et-jono</u> L	?amən INTJ	
	qənut	muu-l?-ə-		ləmənk				
	like	caravan-NMZ	•	•				
	They (m	ooses] go Ir	n eights o	r even tens,	like carav	vans baci	k and fortl	n [kr026]
Hun	an collec	tive suffix -	ryeri/-r	yeci				
Ö32	panèna	neme	ətr ⁹ ec	<u> ŋәг?о-гүа</u>	<u>ce</u> / 1	ŋiceq	rə-ynu-w	
	Still	also	all	three-COLL	1	wo.NUM	CS-remain-T	H-3sgA.3plO
	Once ag	ain he only	left a tri	o, two.	·			[ot139]
033	lejw-ə-1² walk-E-PC	'-ə-t PL-E-3pIABS	jet-y?e- come-TH-		•	<u>°o-ryace</u> e-COLL		jiw-in -POSS.3ABS
	ekke-t son-3pIABS	5						
	Those w	alkers cam	e, the tric	o, the bad u	ncle's son	\$		[cy353]
034	cot-taya cushion-ED	n)GE.3sgABS	ləyen really	ləyi-cimin INTS-be.kno	· · · · · ·	ənk: H there	- •	
	taŋ-əmə INTS-all-Al		<u>mətləŋ-</u> five-E-CO	o-ryace LL	əməl?o all	ləyen really	ənkə there	1.
		e :t-y?e:-t J.about-TH-3p!	ləyen really					
		er chamber Ip there.	was all l	knocked ab	out, there	all the fi	vesome we	re all [cy423]

16.11.2 Ordinal -qew

Ordinals are formed by the suffix -qew-^{VH}. The ordinal form of the numeral is a noun; examples include forms in the absolutive plural (036) and the locative case (037). In example 035 an ordinal numeral appears in an absolutive noun phrase:

304.				AD.	JECTIVES AN	ND NUMERALS	Cha	pter 16
035	ənraq and	1	[?uri]	ipe in.fac	[?aat]	ənqen DEM.3sgABS	CETWERT-a-1?-a-n founh-E-NMZR-E-3sgABS	1
	?aa INTER	wa-y be-TH	7ë em seer	elke ns	qənur like	1		
	<u>nər?a-c</u> lour-ORD		<u>nelwal</u> herd.3sgA		omyat-ə-k be.created-E-S			
	Then t formed		ah, that's	s right	- there wa	s The Fourth,	it seems like, the four	th one he036]

Note that the Chukchi phrase nar?agaw nelwal fourth herd is a Chukchi language gloss of the meaning of the nativised Russian name CETWERTal?an (from Russian 'čet'vertaja bri'gada' Fourth Brigade).

Example 036 shows a plural marked ordinal in a noun phrase with plural noun ticacti thousands:

036	qənur like	ənqorə then	/ et? som	o Iewhat	remk-; folk-E-3s	 1	njelwal herd-E-3		
		-tāle-qinet me.big-go-3pl		qənwe: like=EMP			cy-ə-t E-3plABS	nər ?o-ot three-DIST	1
	<u>nər?a-qav</u> four-ORD-E-		icəc-ti iousand-3p		cəwipə half-3plAl	qəri like	wet	n?el-y?e-t become-TH-3pl	[#]
	• •	ə-mk-ee-n CS-become.bi		J .	al?-ə-t=? 3plABS=E				

Then it's like, people, the herds went on growing, [they were] huge herds, by threes, [when their numbers reached] the fourth thousand they became halves *li.e. the herds were split into twol, they really increased the herds.* [he070]

Example 037 shows two ordinal numerals, both in the locative case: nir?eqewsk upon the second and t?erqewak upon some number of times (<t?er, the indefinite/interrogative pronumeral).

037	• •	<u>?er-qew-ə-k</u> icw.many-ORD-E-LC	jalyət OC nomadıs			<u>pireq-qew-ə-k</u> two-ORD-E-LOC		
•	jalγət-ə-k nomadise-E-SE(qənwer Q finally	luut suddenly	1	ŋinqej boy.3sgABS	jəto-nen pull.out-3sgA.3sgÖ		
	Finally seve birth to a bo		r, on the se	cond	move, final	ly she suddenly g	ave [cy250]	

16.11.3 Multiplicative -ce

.

The multiplicative -ce-VH forms a series of denumeric adverbs indicating the number of iterations of an event, e.g. nire-ce twice, motion-ca five times, monyotca ten times.

Cha	oter 16		ADJECTIVES A	ND NUMERALS	305.
038	ənk?am and	ənqorə=?m then=EMPH	leen / really	t?ec-ce how.many-MULT	
	n-ə-tkiw- HAB-E-spen	qin=?m d.night-3sg=EMPH	/ ŋər?a- four-MiJ	•	ewət so
	n-ə-meyc HAB-E-work	er-ə-myo-qen -E-INCH-3sg	newacqet woman.3sgA		
				ple of times (i.e. rests in bed a ne night, then the woman begi	

Analytic numerals take the derivational suffix on the final element, e.g. glikken annen pacol-ca twenty one times (this type of thing does not occur very frequently).

The word qunece once also seems to be derived from this suffix, although it is not a regular formation (the stem is apparently the quantifier pronoun stem qut- one, other).

039 layen qunece ?era-kawra-nce-y?e=?m r?ile-lgət-y?i nenri gallop-circle-run-TH=EMPH race-set.off-TH really there once Only once she galloped in a circle, (and then) she quickly raced off thither. [cy098]

16.11.4 Distributive jut

The distributive suffix -jut forms an adverb indicating the size of group that an action takes place over:

040 em-camce nelwəl?-ə-t yala-17-ə-t camc-épa REST-close close-ABL herd-E-3pIABS pass-PCPL-E-3pIABS ewar n-a-penra-tko-genat ank?am ənqorə annen-jut HAB-E-attack-ITER-3pl then one-DIST and təm-ə-plətko-k=?m / [...] kill-E-COMPL-SEQ=EMPH Only close up, from close around the passing herd if it attacks them, and then finishes killing [them] one-at-a-time ... 041 angora nan / remk-ə-n ənqen DEICT DEM.3sqABS folk-E-3sgABS then mənyət-jot / ənnan-?orawetl?a-ta n-a-tamyongaan-a-l?at-gen=?m HAB-E-train.hamess.deer-E-DUR-3sg=EMPH ten-DIST one-person-ERG

n-ə-n-win-ew-qin DECJAT OLENI mooqor-o enmec reindeer HAB-E-CS-be.tame-TH-3sg harness.deer-EQU ten aiready n-ə-tejk-ə-qin=?m annan-?orawetl?a-ta=?m HAB-E-make-E-3sg=EMPH one-person-ERG=EMPH

Then the people gradually got the harness reindeer ready, one person trained harness reindeer in tens [i.e. each person trained ten deer], one person made [he061] harness deer.

[aa8.04]

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[jo034]

16.12 General derivation of numerals

Most derivational affixes which combine with nominals and adjectives can also combine with numerals, e.g. the diminutive (042), the intensifier (043) and the approximative (044) (\$ 8.9-10, \$ 16.3).

•DIMINUTIVE -qej. The diminutive attaches to the numeral after the suffix -ine, which is a thematic 'ligature' suffix. The diminutive suffix also acts as a nominaliser; in the following example the diminutive form appears in the plural absolutive:

042	luur suddenly	waj DEICT	qepe wolveri	r ne.3sgABS	ŋə to-y?e appear-TH	wakw-a-c stone-E-INE:		1
	qətələyi seems	ənqen DEM.3sg	ABS	ənkə there	caj-o-ma=?m tea-CONSUME-S		luur suddenly	
	njireq-ine- two-TH-DIM-3		-	ə qet-y⁹e- ı self-TH-3pl	<u>t</u>			

Suddenly a wolverine appeared from inside some rocks, right there while we were drinking tea, suddenly two little ones showed themselves. [aa4.10]

INTENSIFIER ten-

043	[]	<u>ten-annen</u> INTS-one	qora-ŋə reindeer-3sgABS	q-ə-nəntəyet-ə-rkən=?m INT-E-separate-E-PROĞ	[]
	sep	separate out only one reindeer			

APPROXIMATIVE mel-

044	wanewan NEG.NFUT	<u>mal-amŋəroot</u> APPR-eight-NUM	<u>ken</u> je	•	e•jəl•ke NEC•give•i√SG	
	jara-k	n-ə-twa-qenat				
	house-LOC	HAB-E-be-3pl				
	No it was	more like eight t	hov haven	't hoo	n aiven vet the	

No, it was more like eight, they haven't been given yet they're at home [kr004]

Numerals are occasionally observed with other nominal markings such as this person-number-affixed form:

045	n-in-iw-qin HAB-TR-say-3sg	cakəyet sister.3sgABS	"iyət≂?m now=EMPH	waj EMPH	1	
	mət-ra-ra-yt-ə- 1pi-FUT-house-go.to					
	He said to his :	ome"	[ot104]			

Example 045 might also be considered a nominalisation, or even an incorporation of a numeral by a personal pronoun.

17 *Copulas & Auxiliaries*

17.1 Introduction

Chukchi has a verbal subclass which combines (for most of its members) both copula and auxiliary functions. The copula verbs are the main way of forming nominal predicates. The auxiliaries form analytic verbs with the addition of some kind of invariant lexical head (verb base), which may be of verbal, adverb/particle, or adjectival origin.

From a syntactic point of view the copula/auxiliary functions to mark verbal inflectional categories in predicates containing no other element which marks these categories.

	subject	predicate		
copula function:	ABS nominal	copula	÷	copula complement
auxiliary function:	ABS nominal	auxiliary	+	invariant lexical head

he prototypical copula clause has a nominal subject and a complement. These complements can be inflected forms (e.g. nominals in particular oblique cases) or an underived form, such as an adverb. Existential clauses are made with the same verbs as used in copula clauses, but without any kind of complement. Existential clauses, will be classified as a peripheral type of copula clause because of this tarteal similarity, even though there are no morphosyntactic grounds for otherwise dist aiguishing them from intransitive verbal clauses. An argument can be made for classifying one of the functions of the transitive auxiliary verbs as that of a copula. This is discussed below in §17.1.2.

Adjectival predicates form a class on their own, which has significant stuctural differences to the copula/auxiliary clause. They have their own special non-verbal predicate morphology (formally identical to verbs with habitual tense-aspect) in forms unmarked for tense-aspect-mood, but formally converging with copula/auxiliary clauses in more marked TAM categories.

COPULAS AND AUXILIARIES

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The subject of copula and non-verbal predicates is always in the absolutive case. There are some transitive auxiliaries which show normal ergative-absolutive case agreement for transitives, but these do not normally have copula functions. Copula complements are marked in various ways: locational copula clauses have complements in any of the locational cases, and equative copula clauses have a special equative case for the complement. Copula complements are never in the absolutive case of the (copula) subject except in appositional (zero-copula) constructions (discussed in §17.2.4). Aspectually neutral identity and locational clauses can sometimes be made appositionally, but these constructions are difficult if not impossible to distinguish from appositional noun phrases.

17.1.1 Copulas

From a typological perspective, to say that a word is a copula it should be a member of a formally distinguishable word-class which fulfils most or all of the typical copula functions, such as forming a nominal predicate and forming existential clauses; which of these functions are realised by copulas and how the other functions are carried out is discussed in §17.2. It would be expected to have minimal lexical and grammatical meanings apart from this, although this would have to be determined on a language by language basis. In the languages of the world copulas may or may not be a subclass of verbs, although in Chukchi all candidates definitely are. The three clear candidates for copulahood in Chukchi are:

it- 'be something' (identity complement)

twa- 'be in a place, exist' (locative complement or one-place existential)

n?el- 'become'

These copula verbs are distinguished by the following language specific criteria:

(i) a copula verb requires a complement which is different from a transitive object,

(ii) a copula has the possibility of alternation with zero in some contexts.

Condition (i) holds for all copulas except the one-place existential. Identity copulas it-have a complement in the equative case, which is not an obligatory argument of any other sort of verb (cf. functions of the equative case §6.3.6). The locational copula twa- has a complement in any of a number of spatial forms. The copulas it-and twa- can be omitted in unmarked tense-aspect-mood contexts (condition ii). The verb n?el- has the functions of identity, locative and existential copulas, but with additional aspectual meaning: 'become something', 'come to be in a place', 'come to exist'. Unlike the other two copulas, the form n?el- cannot be ommitted. The basic function of a copula is to form some kind of stative predicate, but n?el-also indicates achievement/beginning of the state, and so must always be present when these more complex semantics are intended.

COPULAS AND AUXILIARIES

These copula verbs have the additional features:

(iii) Chukchi copula verbs also function as verbal auxiliaries (this is typologically common correlate function of copulas; Hengeveld 1992:257-290),

(iv) Chukchi copula verbs are *morphologically defective*, which suggests that they are something more like a grammatical function word (e.g. no causative, limited derivation—note problems with tomyat-, below).

There is another verb which shows a number of copula-like features:

tomyat- 'come to be' (existential only)

The verb tomyat- is difficult to classify, since it only has the existential copula function (examples 014 and 015 are possible exceptions, the first has a privative complement and the second has an equative complement; see §17.2.1). In the scheme used here tomyat- can at most be a marginal copula since it (i) does not allow the possibility of a complement and (ii) can't be omitted. The best grounds for considering it a copula are distributional; it seems to be the inchoative correlate of the existential copula -twa-. In such a function it is much more common than n²el-, which does however also occur. However tomyat- differs from the copulas discussed above in that it does not also function as an auxiliary, and is not morphologically defective. It participates in grammatical derivations that are impossible with the other copulas. For instance, unlike with the other copulas, it is possible to make a causative from tomyat-:

001	ii ənan ves 3so.ERG		<u>ya-n-tomy-aw-len</u> PF-CS-become-TH-3sgO	angen DEM.3soARS	<u>wa-yəry-ə-n</u> be-NMZR-E-3sö.ABS	
		3	ed that life[style]			[ke23:

This is not strong evidence, as there is etymological evidence that the verb rətwat-/-ntəwat- is also a causative; the locative copula *be (in a place)* has the form -twa-.

002	yine-nyin	<u>mən-ə-ntəwat-ə-n</u>	
	net-REDUP.3sgABS	1ptA.INT-E-put.in.place-E-3sgO	• ,
	We'll set nets.		[na107:4]

However, this is lexicalised to mean putting some kind of culturally relevar. Sbject in its appropriate place, e.g. setting a net or a trap. Note that it does not require a locative complement (unlike the copula -twa- in locational function), as part of the lexicalised meaning of this word is the assumption that the O is something which is supposed to be put in a particular sort of place. Thus I would argue that rətwat-/-ntəwat- is not the causative of -twa- in the comtemporary language, even though (for historical reasons) it has the morphological form which would be expected for such a causative (§11.5.1).

Derivation of copulas seems to be quite restricted. Nominalisation is common, and (verbal) diminutives and augmentatives do occur, but otherwise the copulas it- and n?el- do not seem to have any derived forms. Apart from the marginal examples of

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-twa- and tomyat- forming causatives (examples 001 and 002), nominalisations (001) and nominalisation/relativisation (003) are the most usual derivations.

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003	Kejŋ-ə-w bear-E-ear=		waltw- stone-E-3		iyət-kine-t now-REL-3plABS	ŋan DEICT	<u>kantora-k</u> office-LOC	
	<u>qaca</u> beside.PP	wa-12-a- be-NMZR	<u>t</u>	wək	w-ə-jŋ-ə-t -E-AUG-E-3plABS	ənŋin thus	mejŋ-ə-1?-a big-E-NMZR-I	
	Bear Ea	rs, [he wa	s able to	llft] ti	he stones, like ti ng, they were b	he big or	es now whic	•

17.1.2 A transitive copula?

The transitive auxiliary verb $\log/-1\gamma$ - (discussed §17.3.2) has a second function which, if the criterion of intransitivity for copulas was relaxed, could be analysed as a type of transitive copula. As discussed above, one of the key functions of copulas is that they provide a method for making predicates from nominals (or other less verb-like classes). The verb $\log/-1\gamma$ - has a similar function. It can act as an extended (three place) transitive with the following argument structure:

Verb agreement type	Case marking of nominal	Function
A	ERGative	'dative'
0	ABSolutive	copula subject
	EQUative	copula complement

To paraphrase this: In Its relation to A, O is an OBL.

This is a kind of secondary predication with the copula-like function of equating the G argument with the equative case OBL argument. The oblique argument is marked in the equative case, which is the case used for equational copula complements.

Examples 004-006 show how this occurs in texts:

SECONDARY EQUATIONAL PREDICATION WITH 1011-11

004	əñr?aq	ənqen	<u>əntuulpəre-n-u</u>	/ <u>ləy-nir</u>	ų ar	iqen 👘 /
	then	DEM.3sgABS	brother.in.law-TH-EQU	TR.COP	3sgA.3sgO DÉ	M.3sgABS
		S-PASS.PCPL.	<u>Poratceq-g</u> BsgABS youth-DIM.3sg It remaining youth a	ABS	(n.law	[ot116]
005			2.7			[01110]
003	qəmel≃?n so.then=EMI		remk-ə-n əngi folk-E-3sgABS thus	•	inmaa-rkən laughter.reindeer-f	PROG
	<u>wil-u</u> tradegood-E		·ly-ə-rkeet D-E-TR.COP-E-PROG-3p	·	.y-a-t=?m -3piABS=EMPH	naqam but
	ceŋet all.the.same	ewan [# so	<pre>#] wilwiI-ti tradegood-3plABS</pre>	tekicy-ə-t=" meat-E-3plABS	• •	
			be able to slaughte d, all the same mea			vould have [he114]

Example 005 shows both transitive and intransitive copula structures: wilu (OBL:EQU) nen?əlyərkeet tekicyət (O:ABS) they would have meat as a tradegood,

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for them meat would be the tradegood contrasts with the zero copula clause wilwilti tekicyət meat is the tradegood. Example 006 also has the transitive copula ləŋ-/-lɣ-, but here the O is indicated only by the verbal cross-reference.

006	ənqom then	iw∙nin say-3sgA.3sgO	/ caket-tomy-a sister-friend-ERG	n-ik-w?e-n 3A-say-TH-3sgO		DO NTJ
	อาาgen this	moryənan 1pl.ERG	<u>mən-ə-ly-ə-?e-n</u> 1pl.INT-E-COP-E-TH-3sgO	qlawəl-o man-EQU		
	Then she as a husb		r(s?) said to her, "Oh, s	we'll take that	one as a	n man [ì.e. [ke208]

The main argument against considering the verb lag-/-ly- to be functioning as a copula in this type of construction is that the equative case can also mark secondary predicates in other types of clauses as well, e.g.

007	e waj q-ə-myu-lq INTJ DEICT INT-E-caravan		t-y-ə-tək el.off-TH-E-2pl		q-ə-jalyət-y-ə-tək INT-nomadise-E-TH-E-2pl		
	<u>qora-yt-at-a</u> reindeer-drive-Tl		q-ə-piri-y- INT-E-take-Th		ənqen DET.3sgABS	1	
	yən-in 2sg∙POSS.3sgA		eŋ-ə-jŋ-ə-л -AUG-E-ABS	qora-ij a reindeer-AB	S		
	Make a cara [to goad the		madising, ta	ake that ba	ad reindeer o	f yours as a driver [cy235]	

Here the equative case marked nominal **goraytatal?o** as a reindeer-driver makes a secondary predication with the clause *you take your bad reindeer*. This is similar to the function of the equative marked nominal in examples 004-006, but in these examples the equative nominal in an obligatory argument of the three place verb lag-/-ly-, whereas in example 007 the verb **piri**- *take* does not usually have an equative nominal argument.

17.1.3 Auxiliaries

Auxiliaries combine with uninflecting derived or underived verb bases to form analytic verbs. The derived verb bases can come from a number of word classes, including verb bases proper and various adverbialised stems (particularly adjectives, see §16.5). The transitivity of an analytic verb, along with all other obligatory verbal categories, is shown by the auxiliary. There is a class of labile mental verbs in which the intransitive form is a full inflecting verb and the transitive form is an analytic verb.

The intranstive auxiliaries are the same verbs as the copula verbs. The form of the non-inchoative auxiliary (it- or wa-/-twa-) is selected according to the morphological origin of the verb base.

it- AUX (stative, deverbal verb bases) wa-/twa- AUX (stative, deädjectival verb bases) n?el- AUX (inchoative)

The transitive auxiliaries are:

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ləŋ-/-ly- AUX (non-resultative mental predicates) rətc-/-tc- AUX (resultative mental predicates) rət-/-nt- AUX (non-mental predicates)

As discussed in \$17.1.2, the verb lag-/-ly- also has a copula-like function. The auxiliary function of these verbs is discussed in \$17.3.2.

17.1.4 Other non-verbal predicates

Copula auxiliary verbs are the main syntactic means for making predicates of less verb-like stems (of course, copula auxiliaries are themselves fully verb-like), such as converbs, adverbs, and oblique nominals. There are also a few kinds of non-verbal predicates which are marked without copula/auxiliary verbs, such as universal/habitual aspect adjectives (§16.3), and possessed predicates (§17.4).

Predicates with equational and locative function can enter into zero-copula clauses in certain circumstances. These are discussed in §17.2.4.

17.2 Copula clauses

Copula clauses consist of a SUBJECT and a COPULA PREDICATE. The copula predicate has a COPULA VERB (obligatory for existence clauses) and a COPULA COMPLEMENT (obligatory for location and identity clauses). Note that there do not seem to be any formal grounds for treating the copula subject differently to any other S. Dixon and Aikhenver (RCLT Internal document) list ten typical copula meanings:

- 1. Attribution, e.g. he is tau
- 2. Identity, e.g. he is a doctor
- 3. Equation, e.g. that man/John is my father
- 4. Naming (including citation and pointing)
- 5. Similarity
- 6. Possession, e.g. the car is to me (=the car is mine)
- 7. Location, e.g. the baby/table is in the garden
- 8. Existence, e.g. God is (=exists)
- 9. Happening, e.g. many accidents are (=happen)
- 10. Becoming

Most of these meanings are usually expressed by copula constructions in Chukchi, with the exception of *similarity*, and the partial exceptions of *attribution* and *possession*. These different meanings cluster together into the following syntactic types:

Attribution and possession have special (non-copula) non-verbal predicate forms in unmarked TAM contexts, and form copula/auxiliary constructions with -twa- in marked TAM contexts (such as imperatives, negatives).

Identity, equation and *naming* are marked with the copula it- and a complement in the equative case. Occasionally these constructions are made appositionally (zero-copula) with the complement in the equative or in the absolutive.

Location is marked with the copula -twa- and a complement in any locational case form or locational adverbial. Occasionally these constructions are made appositionally.

Existence and happening are marked by -twa- without a complement.

Becoming needs to be considered an inchoative subtype of all the above. The complement remains the same as the non-inchoative construction but the copula n?el- is used instead. Inchoative *existence* clauses (i.e. 'come to exist') can also be made with the verb tomyat-, which may or may not be a copula (see below)

Similarity is not marked by a particular type of copula clause. Instead an identity/equation clause is formed with a nominal derived by the suffix mel- apparently an X (§8.10.3) or -Iqəl acts like an X (§8.11)

The typical copula meanings listed above are encoded by the Chukchi copula verbs in the following types of copula constructions:

FIGURE 17.1. Copula construction types.

CLAUSE TYPE	stative	inchoative
<i>existence</i> "exist, start to exist"	-twa-	tömyat- n?el-
<i>location</i> "be in a place, come to be in a place"	-twa- + locational (Ø + locational)	n?el- + locational
<i>identity, equation</i> "be X, start to be X"	it- + EQU (Ø + ABS, EQU)	n?el- + EQU

17.2.1 Existential clauses

Existential copulas are the only one-place copulas (see below for various two-place copulas). Like all copulas there are forms for stative ('to exist) and inchoative ('to come into existence) meanings.

The stative existential copula is -twa- (word initial form wa-; see 009)

800	[]	qeluq=?m because=EMPH	ənqen that.3sgABS	tejnet food.3sgABS	n-ə-twa-qen=?m HAB-E-exist-3sg=EMPH
	bec	cause there was	that food.		

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[he065]

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009	w?e-tko-ja-n die-ITER-NMZR-ABS	<u>ya-twa-len</u> ŋanqen // PF-exist-3sg there.3sgABS	
	ənkə rətha-yt there across-ALI		
	•	ləyen=?m mal-kəlyən-ken yiwiŋi-t / eally=EMPH PERHAPS-fikteen-NUM year-3pIABS	
	t-ə-jaa-?a-n / 1sgA-E-use-3sgO	dənur / yenqay-tayn-epə ənqën like boy-EDGE-ABL this.3sgABS	1
	w?e-tko-ja-n die-ITER-??-3sgABS	<u>wa-v⁷e</u> exist-TH	
	There was la tim	a off death When I was a how a few years, well-	nerhans I

There was [a time of] death. When I was a boy, a lew years- well- perhaps I had gone 15 years in my childhood, there was an epidemic. [he007-008]

The stative verb inflections occur more frequently with existential copulas than active inflections. In existential copula function non-declarative TAM inflectional forms are rare. This is probably not a syntactic restriction: states of existence are not generally subject to commands/desires (but see the copula -twa- in locational function; §17.2.2). Example 010 is a rare example of an existential copula in conditional mood (the conditional occurs rarely in general; cf. §10.2.7).

010	ləγen tāŋ-ā-p? really INTS-NEG		n-ə-tv HAB-E-	vä-qenat= be-3piS	?m	laring-ev further-so			ləγen≃?m really=EMPH
	atqaw-ka (nən Iame-NEĞ	?e]	n-ə-twa HAB-E-be	l-qenat=?ı ⊶3plS		qəmel sö.then	1	ənqo then	Ċə
	ecwera-yəry-ə-n succeed-NMZR-E-ABS		•				[n-ə-twa-qenat] HAB-E-be-3piS		
	<u>n?-ə-twa-rkənat</u> COND-E-be-3plS	wec? probab		vrena-ytə xt.year-ALL		elwəl?-ə- erd-E-3pIAB			
	They are never th there would be he				and	if all is s	suci	cessful,	all goes well, [hė110]

The irrealis copula predicate in the example above is n²otwarkonat gelwol²ot there would be herds.

There are two stems which function as inchoative existential copulas. The stem tomyat- is rarely used in any other function than the existential (two exceptions; example 014, tomyat- + PRIV, and example 015, tomyat- + EQU), whereas n^{7} el can function as any form of inchoative copula, locational and identity as well as existential.

011	neme aiso	qol one.3sgABS	1	?əlet-ə-k snow.fall-E-SEQ	jawren-a⊭?m next.year-INST=EMPH	neme also
	ənnan-) one-five-C	mətləŋ-qaw IRD	-	<u>1?el-y?i</u> =?m ecome-TH=EMPH		

Also another, when the snow fell, the next year again a sixth [herd] came to be. [he038]

Chap	iter 17	Сори	AS AND AUXILIARIES	i	315.
012	then DE məkat-ə-myc	· · · · ·	qənwer-ewər finally-so wer /	ŋelwəl?-ə-t herd-E-3plABS	
	multiply-E-INCH- ரசாa-qaw four-ORD	tomyat-y?e ŋel	y lwəl=?m ä.3sgABS=EMPH		
	Then gradua be.	ally people, the he	rds started to Incre	ease like, a fourth herc	l came to [he033]
013	ŋ ew?en woman.3sgABS	n-in-lw-qin HAB-TR-say-3sgO	"iyət=?m waj now=EMPH DEICT	yenku there	
	na-ra-nm-ə- 3pl-FUT-kill-E-1s	•	cci-tku-jw-ə-yəm IT-cut-ITER-COLL-E-1sg	-	
	t-ə-re-mec-k 1sg-E-FUT-DIM-		omyan-ma" come-SIM		
		is wife "They'll kil a little later, resto		op me up into bits, bu	t I'll [cy366]
	-	vo examples sho id equative (015) d		on-existential function	ons with
014	NEG.EXI PR	IV-rear-digit-E-PRIV	<u>t-ə-ra-tomyat-ə</u> 1sg-E-FUT-become-E		
015		ed without any too			[cy378]
015	and th	ien young.bull-ser	barate-TH-E-SEQ th	nr?aq mətləŋ-qaw en five-ORD	1
			nr?a / 1en		
	Puqet personal.namë.3	prikatir-(IsgABS brigade.leade		<u>e</u>	
	mətləŋen	÷ -	l-γ²e-t=²m ä	eme ənqorə= ⁹ m sö then=EMPH	
			n a fifth brigade c ame to be also the	ame to be, then Puget n.	came to [he037]
	-	-	the inchoative cop	ula n?el- would be m	ore likely
in bo	oth the above	contexts.			
		ion clauses			
				ula verb stems twa- Locative complement	
				group. They include:	

• locative case nominal -k

• nominal in another spatial case, including:

INESSIVE -cəku SUBLATIVE -jiŋkə

• spatial adverb, e.g. miŋkə 'where?', yenku 'here', wajənqac 'nearby'

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016 (i	TIVE -k enmec already At home I	<u>jara-k</u> house-LOC there's airc	<u>wa-rkən</u> be-PROG ady a child a	nenenə=?n child.ABS=EM nd mother	-		[cy316]
017 ; t <u>s</u>	ənqorə then <u>SOVXOZ-2-</u> state.farm-E-	qənwer finally <u>k n²e</u> LOC beco	/ kracne	e na-1?-ə-t ne-NMZR-E-3pî H	·	LOC	
018 1 (1 [DEICT ba	ənqen DEM.3sgABS enenə ıby.3sgABS	yew?en-qa wife:DIM.3sg/ <u>kaara-cəko</u> nursery.sled-INL unted, she sa	ABS dismou <u>wa.rk</u> SS be.PRO	nt-TH say-Ti <u>táth</u> q-ə IG INT-	H •piri-y-ə-ı E-take-TH-E	-3sg
019 <u>1</u> V	AL ADVER <u>miŋkə</u> where? Where is j	RB <u>n-ə-twa-qe</u> HAB-E-be-3sg <i>your house</i>	S 2sg-POSS	-	ira-gə? buse-3sgABS		[na081:2]
	-		ave quite a l referential f	-	inal load, a	nd are fr	equently used
020 t 1 2 1 1 1 1	RATIVE CO tag-qonpa INTS-always anqen hat.3sgABS gelwal?-a- herd-E-LOC <i>He alway</i>	a laγen really ?eqe-nji bad-uncle-F <u>k q-a-tw</u> INT-E-be	RG HAB-TR- <u>a-rken</u> PROG	OC HAB-E v-qin ŋ say-3sg h	wa-qen=?m .be-3sg=EMPH alwəl?-etə erd-ALL uncle alway	IN q-ə-lqət INT-E-set.	ng-qonpə TS-always -y-i off-TH-TH <i>him, "Go to</i>

Chukchi identity and equation copula clauses form a single syntactic class. The stative identity/equation copula is it-, and the inchoative (becoming) copula is n^{el} . The complements of identity/equation copulas are usually in the equative case (but see 024 below). In some restricted syntactic contexts, identity/equation clauses can also be formed by a zero-copula construction (§17.2.4).

EXAMPLES OF STATIVE AND INCHOATIVE it-, n?el-

ζ.

021	ə nqen that.3sgABS	emelke additionally	1	ənqen that.3sgABS	<u>mejŋ-ə-wil-u</u> big-E-price-EQU	<u>n-it-qin</u> =?m HAB-be-3sgS=EMPH	
	That, I mig	(he047)					

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022	angen jokwajo ipe <u>?iy-u</u> @ <u>n-it-qin</u> @@ DEM.3sgABS eider.duck.3sgABS truly wolf-EQU HAB-be-3sgS	
		010
023	[] / SEDMOJ-ə-1?-ə-n qənwet n?el-y?i=?m / seventh-E-NMZR-E-3sgABS eventually become-TH=EMPH	
	Tayən <u>n²el-y²i briyadir-o=²m</u>	
	personal.name.3sgABS become-TH brigade.leader-EQU=EMPH the Seventh [brigade] eventually came to be, Tayan became the brigadia	ar
	he Sevenur for igadej eventuariy came to be, i ayan became the origada [he]	
A m	vative case nominal can also be the complement of an identity/equ	
copu		
024	nəki-r?u-y?i / enmec waj ləyi-teŋ-ujŋe t-ə-n?el-ə-k night-INCH-TH already DEICT INTS-EMPH-NEG.EXI 1sg-E-become-E-1sg	
	iml-ə-ke / m-ajm-ə-y?a-k	
	water-E-PRIV 1sg.INT-getwater-E-TH-1sg	
	Night fell. "I've already completely run out of water, I'll go for some more" [lit. I'm already become waterless] []	1009
	ity/equation copulas are not limited to stative/realis non-future forms. ring example shows an imperative copula:	. т
025	iw-nin "eryatək waj muri mət-ra-r ² ela-yt-ə-y ² a say-3sgA.3sgO next.day DEICT 1pl.ABS 1pl-FUT-race-gö.tö-E-TH	
	turi ətcaj-qaj <u>jara-12-0 q-it-y-ə-tək</u> " 2pl.ABS aunt-DIM house-NMZR-EQU INT-be-TH-E-ZplS	
	He said to him: Tomorrow we are going racing. You and aunty remain at	y0t
	home. [C	<i>y</i> 00
17.2	4 Zero-copula	
	tional and locational copula functions are also expressed by apposition of	oft
	nominal arguments. This construction coexists with verbal mear	
	ssing copula meanings, but is usually used in unemphatic and inton	
•	final contexts. It is usually very difficult to distinguish zero-copula cla	
from	noun phrases, which are also appositional in their structure (§9). Ther	e a
	onal exceptions, such as in example 026 where a zero-copula comple	
	rs once in the absolutive ('eqenjiw 'att'ajotral'an the bad uncle wa	
	house-holder) and once in the equative (jaatral?o tenonjiw the last h	hou
hold	r was the good uncle).	
026	ləγen jara-k ŋenku pəkir-γ ² i teŋ-ənjiw-ə-k / really house-LOC there arrive-TH good-uncle-E-LOC	

really	nouse-luc	inere	amve-1H	good-uncle-E-LOC	
[?] eqe-nji	w <u>?att?a</u>	o <u>iot-ra-l?-a</u>	<u>.n</u> nı	utku	
bad-uncle	first-ho	use-NMZR-E-	3sgABS her	re	
jaat-ra-	7-0	teŋ-ənjiv	v		
last-house-	NMZR-EQU	good-uncle.	3sgABS		
So there	he approa	ched the p	ood uncle's	s house, the bad un	cle had ti

So there he approached the good uncle's house, the bad uncle had the first house, here in the last house was the good uncle. [cy309]

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This shows us (i) that there are zero-copula clauses as distinct from appositional noun phrases, and (ii) that apposition of two absolutive nominals can be semantically equivalent to a copula clause. This zero-copula construction is an alternative to the varbal copula construction. It is used occasionally by all speakers, including elderly monolinguals, which suggests that it is not simply a result of structural interference from Russian (which has zero-copula constructions in the present tense).

The only instance where there is no verbal copula alternative to the zero-copula construction occurs in the NAMING PREDICATE construction. Copula verbs never occur in naming clauses with a first or second person predicate. Predicate nominals with first or second person referent have special pronominal endings which fust absolutive case marking with person-number marking, see below and §6.2).

These person-marked nominal forms are usually only used as predicates; in the non-predicative vocative function the person-marked nominal endings are not used. Example 027 shows a minimal pair. The speaker names the addressee in the non-person marked, non-predicative form, but refers to himself, predicatively, with the pronominal suffix. This contrasts to the use of the second person predicative form in 028.

027	"ətcaj-qaj unclē-DIM.3sgABS		Cəkwaŋaqaj-eyəm!" personal.name-1sg.ABS	
	Uncle, it's me Ca	kwaŋaq	naj!	l

[cy312]

The following quoted exchange is part of the polite introduction routine. Personnumber marked nominals are used thoughout.

028	qun=waj DEICT=DEICT	enmen sö	Cəkwaŋaqaj-eyəm personal.name-1sg.ABS	11	·	
		vanaqaj•eya al.name•2sg.Al				
	(Cəkwaŋaqa	aj:] <i>Well th</i>				
	[The wome	n:] Ooh, yo	u're Cəkwayaqaj.			[cy109-110]

These zero-copula existentials are structually distinctive in examples 027-028 due to the person-marking suffixes. Third person nominals cannot be morphologically distinguished in this way; however, it does seem that third person nominals can be used in zero-copula existential constructions too, as in 029-030:

029	yəty-ə-j:: lake-E-AUG	E-3sgABS		
	it was a	huuuge lake.		[ot092]
030	qətləyi actually	kelə spirit.3sgABS	BABAJKA ghost	
	It was a	ctually a spiri	t, a ghost	[ke017]

17.3 Clauses with auxiliaries

Auxiliaries serve to add verbal agreement and TAM categories to verbs of the invariant *verbal base* class, as well as to allow certain adverbs and converbs to act as verbal bases. Auxiliaries are also used to allow forms derived from adjective stems to be predicates outside non-future neutral/habitual aspect. Auxiliaries can be transitive or intransitive.

Sometimes there are pairs of verbs which have inflecting and analytic variants. The meaning difference is not always clear, such as in the following example, where the verb nəqər?acetqen they [the folk SG] are competing occurs alongside qəra?aceta nitqin, which apparently has the same meaning.

031	ləyen teally	remk·ə·n íolk·E·3sgABS	qənur like	ləyen=? really=EM	•	remk-ə-n folk-E-3sgABS
	ləyen really	<u> </u>	or?acet-qen compete-3sgS	İəyen really	<u>qər7acet-a</u> compete-VBase	<u>n-it-qin</u> HAB-be-3sgS
	n-ə-miγciret-qin≈²m HAB-E-work-3sgS=EMPH					

So it's like people, people tried really hard, competing as they work. [he028]

There is one lexical-grammatical domain where the meaning difference between inflecting and analytic verb pairs is clear. There is a class of mental predicates which have intranstive variants as inflecting intransitive verbs (usually with the thematic -et suffix) and transitive analytic variants with the -Iy- auxiliary.

17.3.1 Intransitive

The intransitive auxiliary verbs are it, -twa- and n⁷el-, the same as the copulas. These auxiliaries cooccur with an invariant lexical head to make an analytic verb. The lexical heads of intranstive analytic verbs can be words of many different classes intermediate between core nominals and inflecting verbs on the nominal-verbal cline. The include deverbal verb bases, oblique nominals (e.g. privative, comitative), adverbs/particles (neither verb nor noun), and deädjectival verb bases (for adjectives in marked tense-aspect configurations; see [16.5].

VERB BASE: -(t)e^{.VH} (with auxiliary it-)

032	əməl?o	remk-ə-n	1	pal-	<u>teyjen-cit-e</u>	<u>n-it-qin</u>	
	all.3ABS	folk-E-3sgABS	5	mutua	al-desire-ADVER-VBase	HAB-AUX-3sgS	
	qənur like	qər?acet-w compete-RECI	•	1	ya-nəm-takocy-a= ASS-settlement-pair-AS		
All the people were living the way they wanted [?], like they were competing with their neighbours. [hel							peting [he067]
VERE	BASE: IM	POSSIBILITI	VE: ?a	qa	ŋ (with auxiliary	n [?] el-)	
033	7aqa-no-r) <u>t-ə-</u>	re•n?e	<u>l-ə</u>			
	IMPOSS-eat	-VBase 1sg-	E-FUT-b	ecome-	8		
	"[Later]]	"II become i	nedible	•			[ke110]

318.

. . .

320.	COPULAS AND AUXILIARIES	Chapter 17
NEG)34	ATIVE VERB BASE: luŋ(t)e (with auxiliary it-) [] ənqen ŋew-ə-nju-l?-ə-n qeluq DEM.3sqABS wife-E-look.out.for-NMZR-E-ABS because	
	ott-ə-ly-ə-n rə-cimir?-ew-nin ləmŋe / wood-E-SING-E-ABS CS-chop-CS-3sgA.3sgO further	
	<u>luŋ-ə-lw-e</u> <u>it-y?i</u> recqik-w?i NEG-E-be.defeated-NEG be-TH enter-TH	
	This is the sultor [for you], because he's chopped up the tree, he defeated, he's come in.	wasn't [cy218]
)35	i] ənk?am remk-ə-n=?m qəmel and folk-E-ABS=EMPH so.then	
	<u>log-ə-cye-qaanmat-a n-it-qin=?m</u> [] NEG-E-INTS-slaughter.reindeer-NEG HAB-be-3sg=EMPH	
	and so then the people hardly slaughtered reindeer	[he065]
OBL 036	IQUE NOMINAL—PRIVATIVE <u>a-qora-ka <u>i-ə-re-n²el-y²e</u> / cam?am t-ə-re-jmit-yət PRIV-reindeer-PRIV 1sq-E-become-TH unable.MOD 1sg-E-FUT-slaughte</u>	r•2sg
	I'll be left without a reindeer, I can't slaughter you	[ke108]
OBL 037	IQUE NOMINAL—COMITATIVE ənqorə / ŋotqen Roclow-ə-na ləye-taŋ-əməl?o then that.3sgABS personal.name-E-ERG INTS-EMPH-all.3sgABS	qənut like
	nelwəl?-ə-kin ?orawetl?a-n / [#] r-ə-ra-nija-w-jəw-nen herd-E-REL.3sgABS person-3sgABS CS-E-house-acquire-CS-CO	
	əməl?o / jara-ŋə / <u>ya-ppəlo-ra-ta</u> <u>n²el-y²i</u> all.3ABS house-3sgABS COM-little-house-COM become-TH	
	remk-ə-n taŋ-əməl?-etə=?m folk-ABS INTS-all-ADV=EMPH	
	Then that Roslov resettled absolutely all the herding people into h houses, the people came to be entirely with little houses.	ouses, all [he055]
	TIAL ADVERB	
038	ənqen=?m tirk-ə-tir kitkit ye-mec-pintəqet-q DEM.3sgABS=EMPH sun-E-REDUP.3sgABS slightly PF-APPR-show.itself-Dil	-
	SOLNYŠKA=?m t?er-?ew ŋan kitkit <u>yəryola-ta</u> sun=EMPH so.much-ADV DEICT slightly high-ADV	
	<u>ye-n?et-lin</u> / n-ə-j?u-tku-l?et-qinet PF-become-3sgS HAB-E-laugh-ITER-DUR-3plS	
	The sun came up a little bit, the sun just showed, became a little l	bit higher.
	They laughed.	[kc009]

Chapter 17	Co	PULAS AND AU	KILIA DES		321	<u>.</u>
039 [] 1.	L/DEVERBAL VERB E oyen=?m ya-taŋəc aliy=EMPH PF-live.wel	?-ə-ŋŋo-len	remk-ə-rı	ləγen=?m really=EMPH	1	
<u>arojw-e</u> healthy-V8	<u>tə ye-n?el-lin</u> ase PF-become-3sg					
emto further	qetp-etayedetermined-VbasePF-	• <mark>n?el-lin=?m</mark> become•3sg=EMf	ж			
	e began living alrig more determined.	ht, the people	became fitter	'in reindeer i	herding, [he056	<i>3]</i>
ADJECTIVE						
040 ənraq then	ləγen=?m am-q really=EMPH DIST-?	-				
<u>maka</u> many-E						
And the	en with every year th	ne herds beca	me bigger		[he040	1

17.3.2 Transitive

The transitive auxiliaries are distinguished distributionally and functionally. The auxiliaries l_{99} -/ly- and rətc/-tc- form a semantically distinguished pair which occur with underived verbal bases indicating mental predicates (such as l_{99} know) and verb bases derived with the -u suffix (e.g. yem-o be unaware of), and also occurs with equative case (-u ending) nominals (§17.1.2). The other auxiliary, rət-/-nt-occurs with underived adverbial heads (such as migkəri how, see 041, and əngin thus; see 042), with verb bases formed with the -(t)e suffix (043-044), and with negative verb bases (045 and §18.2.5).

041	ko:lo mejl <u>ləyi-miŋkəri mən-ə-nt-ə-y?e-n</u> INTJ INTJ INTS-how 1pl-E-AUX-E-TH-3sğ əngatal mən-ə-nm-ə-y?a-n iwke	
	INTJ 1pl-E-kill-E-TH-3sg then	
	Oh my! what are we to do with him? How can we kill him?	[cy374]
042	<u>ənŋin g-ə-nt-ə-y?e-n</u> thus INT-E-AUX-E-TH-3sgO	
	Do it like that.	[nb030.7]
043	<u>təw-a q-ə-nt-ə-y²e-n</u> tell-VBase INT-E-AUX-E-TH-3sgO	
	Tell it out loud.	[nb030.6]
044	[] / ətr?ec <u>walom-a</u> et?əm <u>n-ə-nt-ə-qin</u> all hear-VBase apparently HAB-E-AUX-3sgO	
	apparently they've only heard about it.	[he006]
045	awn-a-j1jo-ka ən?-ə-nt-ə-n ?ətt?-e tejkəcy-ə-n just-NEG-snilf-NEG 3A.INT-E-AUX-E-30 dog-ERG meat-E-ABS	
	Don't let the dogs sniff the meat [Let the dogs not sniff the meat]	[nb045.3]
ጥኩል	numilian not lint also functions as a lovical work with the meaning	o 'have use'

The auxiliary rət-/-nt- also functions as a lexical verb with the meaning 'have, use' (note that the grammatical function of possession is usually morphologically

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marked in other ways, such as with the -l?- suffix). The following example shows a typical instance of this verb in its non-auxiliary function:

046	nanqen DEM.3sgABS	ŋan DEICT	ate-rəkə grandfather-			lqət-y UT-sel.o		ŋut) here	(U	
	<u>t-ə-re-nt-ə-ŋ</u> 1sg-E-FUT-have			iur?+ə-qe	•	gABS	nem again		q ol one.3sgABS	
	[reluur?age [chewing.tobacc		•	sgABS	neme again	qol one.3s	gABS			
	I'll set off th some more o							ewin	g tobacco	, again [cy398]

The auxiliaries lag-/-ly- and rate-/-te- occur with verbal bases belonging to the semantic domain of emotions and other transtive mental states. The auxiliary rate-/-te- indicates a resultative meaning, whereas lag-/-ly- indicates a non-resultative, stative meaning, e.g. yemo lag- not know smth. and yemo rate- forget smth., layi lag- know smth. (047) and layi rate- learn (048). These verb bases may be underived (047 and 048), or derived with the -u verb base deriver (049).

017		a te-tku-t iñg•COLL-3pIABS	yənan 2sgERG	
	<u>ləyi</u> <u>ləŋ-ə-rkənet</u> know.VBase AUX-E-3plPROG	[]		
	you probably also know .	lots of things		[ab5.11]
048	əryənan <u>ten-ləyi</u> 3plERG INTS-know.VBASE	<u>ye-tc-ə-linet</u> PF-AUX-E-3pi	ijelwəl?-ə-t / herd-E-3plABS	
	<u>ləyi</u> qənur <u>ye-tc-ə-lee</u> know realiy PF-AUX-E-3p			
	they learnt [the habits of] the herds well,	they really learnt them .	[he115]
049	ten-emkum?-u g-a-ly-a- INTS-louk.alter-VBase INT-E-AUX		k s.3sgABS	
	Really look after [my] carca	ass!		[jo036]

Other verbal bases of this type include ajəly-o *fear*, wenn-u *envy*, cimy?-u *think*, yiciw-u *enjoy*, yem-o *not know*, kory-o *delight in*, lewlew-u *tease/trick*, ləmal-o *believe*, peyciŋ-u *be curious about*, teyjeŋ-u *desire*, tenŋə *laugh at*. All the forms ending in -u or -o (the two vowel harmony variants of the -u suffix) also have intransitive forms which act as fully inflecting roots, which are derived with the addition of the derivational suffix -et^{-VH}; ajəly-o - ajəly-at-, wenn-u - wenn-et-, cimy?-u - cimy?-et- etc. The underived form tenŋə *laugh at* can make a derived intransitive root tenŋə-tku- *laugh*. The underived verbal base ləyi *know* seems to have no intransitive counterpart, although some speakers link it to the discourse particle ləyen (which is sometimes glossed as the tag question *y'know*, Rus. *znaeš*)

¹ In this example of quoted speech the speaker is giving an indication of the distance he has to go, measured in rest breaks.

17.4 Possessed predicate

This form allows a nominal to function as a possessed predicate. It is structurally identical to the form of intransitive verbs in the perfect, i.e. the ye- prefix and a pronominal suffix. The ye- prefix in this form recollects the ye- in the associative and comitative case forms γ_2 -___(t)e^{-VH} and γ_2 -___ma, all of which can function in the same way (§6.2).

FIGURE 17.2. Possessed predicate.

-	Singular	Plural
1st person	yeiyəm	yenuri
2nd person	yeiyət	γeturi
3rd person	yelin	γelinet

The possessed predicate is extremely rare in my texts, although speakers do understand and produce them quite easily in elicitation. The following spontaneous examples almost exhaust my corpus:

050	² aman ana INTS so		wopqa-le SS.PRED-m		ngen ET.3sgABS	umku-um forest-REDUP.3s	-405		
	101.5 20	INTS PU.	55.PRED-III	oose-ssg D	E1.320482	INIESI-KEDOP.33	gabo		
	So that fore	st has moose i	in it				[kr029]		
051	DOCTOR-a	n-ik-wəm	<u>y?ett?-i</u>	yət?²	/ 11				
	doctor-ERG	HAB-say-1sgO	POSS.PR	ËD.dog-2sg	yus.				
	The doctor sa	id to me "Do y	ou have	a dog?" - "}	es"		[kr164]		
052	апдога /	· ləyen=?m	ŋan	nalwəl?-ə-	·ċɣ-ə-t	n-ə-mk-ə-qine	t=?m		
	then	really=EMPH	DEICT	herd-E-AUG-	E-3pIABS	ADJ-E-many-E-3pl	=ÉMPH		
	ijan ləyen	= ⁷ m tic∂cu	<u>ya-pa</u>	rol·lenat	towarr	10			
	DEICT really=E	MPH thousand	POSS.F	PRED-extra-3pl	l trade.her	t			
	n-ə-capoj-qen=?m								
	here	HAB-E-slaughter-3	sg2=£мрн						
	So then the g were slaughte		reased, a	thousand a	and more [lit. with extra	s] here [he046]		
	0								

People don't seem to use the possessed predicate form with diminutives and augmentatives, so I can't say whether speakers would normally produce, for example, yawopqajŋəlen (augmentative suffixed directly to the stem) or yawopqalenajŋən (augmentative suffixed to the whole form, in the same way that it does with predicate adjective form). They accept either as meaningful.

18 Negation

18.1 Introduction

The functional domain of negation in Chukchi is represented by a well elaborated set of grammatical subsystems. These divide broadly into two main structural types:

- i) negated clauses with inflecting verb (formed by a negative particle + verb in the intentional mood);
- ii) uninflecting negative derivations (formed with the circumfixes lug-___-(t)e and e-___-ke^{-VH}); these include verb bases, participles, privative case nominals and predicative adjectives.

Some of the negative forms in (ii) can be combined with an auxiliary to produce inflected verb forms. These forms differ aspectually from negated inflecting verbs (§18.2). There also exist several negated copula structures, aithough these make a formally less — berent group than either of the two above (§§18.3-5).

There are a number of negative particles corresponding to a range of TAM distinctions, such as future/non-future and declarative/imperative (§18.8; modal marking of negative particles is typologically not uncommon). Each type of negation has a corresponding negative particle. In the inflecting verb construction and some of the negated copula constructions this particle is obligatory; in other forms it is optional.

In Chukchi only predicates and clause adjuncts can be negated directly. Nominalisations of negated forms can occur in modifier or (rarely) argument roles, but these have special semantics (see §§18.7.2-3). Negative adjuncts are discussed in §18.9.

18.2 Stative and non-stative negatives

There are two structural types of negated verb which can form independent clauses. These types have similar semantic distinctions to those shown by the stative-non-stative verbal inflections of positive polarity verbs (discussed in §10). Note that with both positive and negative polarity the stative-non-stative 326.

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distinction is one which is made pr gmatically, so that any verb stem can be inflected according to either pattern.

The non-stative negatives are formed by a particle, which encodes tense and negative polarity, and a verb in the intentional inflection, which marks the person and number of core participant/s. The stative negatives are formed by a negative verb base which specifies some aspectual information, and can optionally be accompanied by an auxiliary (see §17.3 for discussion of auxiliary verbs). Negative polarity verbs in general mark fewer tense-aspect-mood categories than positive polarity verbs. For both positive and negative verbs, the stative verbs mark fewer categories than the non-stative. Negative non-stative verbs have obligatory markings for the same person, number and syntactic role categories that are marked by non-stative positives. In contrast, stative negatives do not themselves mark any of these categories, although they can optionally be expressed by an auxiliary.

The semantics of the stative-non-stative distinction in Chukchi is not always very clear: many occurrences of the stative perfect can be substituted by the non-stative non-future (aorist) form, and vice versa. Likewise the stative universal/habitual aspect is often interchangeable with the non-stative progressive form. There is further discussion of functional similarities and differences of the stative and non-stative for positive polarity verbs in §10.3.

18.2.1 Non-future negative (non-stative)

Non-stative negated verbs are formed with a verb in the intentional mood form (§10.2.6) and a particle marking tense (non-future or future; see below and §18.2.2). The non-future negative particle is wanewan. The particle usually precedes the verb, often with intervening words (as in 002) or clitics/particles (003). Examples 001 and 002 are intransitive, example 003 is transitive.

001	?eqe-njiw bad∙uncle	γ-iw-lin PF-say-3sg	"ee INTJ	ənqen that		bonije-len ike.shortcut-3s	<u>wanewan</u> g NEG.NFUT	
	<u>n-ə-janot-</u> 3.INT-E-be.fi							
	The bad u	uncle said "H	a, that	one took a	a shor	tcut, he di	dn't come first"	[cy147]
002	<u>wanewan</u> NEG.NFUT	ningkari anywhere		<u>-lqət-ə-k</u> NT-E-set.off-	E-1sğ	ij utku here	n-ə-jəlqet-iyən HAB-E-sleep-1sğ	n
	No, I didi	n't go anywhe	re, I w	as here sl	eeping	, .		[ot060]
003		<u>wanewan</u> =?n NEG.NFUT=EMPI		<u>-ra-rkəpl</u> INT-E-DESIC		-		
	Oh, I did	n't mean io h	it you [lit. <i>'didn'</i>	t wani	t to hit you	1	[nb074.1]

The particle etlə is occasionally used where wanewan would be expected.

004	<u>etlə</u> NEG	qejuu call		<u>1-junr-ə-y?e-n</u> =?m IT-select-E-TH-3sg=EMPH	1	
	taŋ-a	m-majŋ-ə	-ja-n	n-ine-junr-ə-muri	[]	
	INTS-F	REST-big-E-?	?•ABS	HAB-TR-select-E-1pt		
	We d	lidn't seled	ct calv	ull grown ones	[heJ97]	

This particle is usually used without a complement (§18.8) as the negative answer to polar questions, in which context it doesn't show any tense information. Presumably etlə is only interchangeable with wanewan in the context of example 004 since wanewan and etlə are the least grammatically marked forms (wanewan is non-stative, non-future, and etlə does not normally indicate any such categories at all).

18.2.2 Future negative (non-stative)

Similarly to the non-future, the negative future is formed with a verb in the intentional accompanied (usually preceded) by a negative particle encoding tense and negation. The negative future particle is qərəm-qəcəm (men's and women's variants). Example 005 is intransitive, example 006 is transitive.

00		<u>m-ekwet-y?e-k</u>	t-ə-re-jəlqet-y?i	
	NEG.FUT	1sg.INT-go.out-TH-1sg	1sg-E-FUT-sleep-TH	
	I'm not g	going out, I'm going i	to sleep	[ot045]
00	6 <u>qərəm</u>	<u>?ən-ə-nm-ə-yəm</u>		
	NEG.FUŤ	3pIA.INT-E-kill-E-1sgO		
	They wo	n't kill me.		[ot106]

The negative identity construction uses a marker which is transparently related to the qaram-qacam particle, but which marks certain agreement categories as well (§18.3).

18.2.3 Perfect negative (stative)

Stative negatives are formed by verb bases (see also §13.5). Stative verbs (negative and positive) show two aspectual distinctions, perfect and universal/habitual. The perfect negative verb base is lug-___-(t)e. This form is often accompanied by an auxiliary verb to make a full analytic verb which overtly marks its participants (§17.3.1), for example:

007	ləyen=?m really=EMPH	lug-keli-zku-te NEG-write-ITER-NEG	t-it-∀?e-k 1sg-bê-TH-1sg	teŋ-em-ŋelwəl?-ə-k INTS-REST-herd-E-LOC	1				
	t-ə-miyciret-y?e-k								
	1sg-E-work-TH-1sg								
	But I didn	[he004]							

The following example shows a general, common-sense statement, expressed impersonally. In such a function it is unnecessary to have an auxiliary showing verbal TAM categories or cross-reference to a particular argument.

<u>328.</u>			Chapter 18			
008	em-?eqe-yjulet-ke-te <u>lom-wetyaw-joly-a-tko-ta</u> REST-IMPOSS-know-NEG-VBase NEG-speak-CONTAINER-UTIL-NEG [People who] don't know how shouldn't use the two-way radio [nb25.0					
The	ere is a nominalised/partici					ee §18.7.1
18.						
The	universal habitual aspect	-			^{/H} , for exar	nple:
009	qəmel ənqorə≓?m / so.then then≈EMPH	remk-ə-n folk-E-3soABS	ləyen=?m really=EMPH	1	<u>a-ŋ?o-ka</u> NEG-be.hur	iqry-NEG

PF-become-3sgS food-ABL=EMPH And then from the food the people came to live without hunger... [he065]

[...]

tajŋat-yəpə≤?m

<u>ye-n?el-lin</u>

In texts this verb base often occurs along with the special negative emphatic prefix ewn-VH. The ewn-VH prefix does not cooccur with any other forms, negative or otherwise, although is presumably cognate with the intensifier particle ewan.

010	neme	qanwer	"anə	wajl	?etki	öpopə		
	again	finally	50	DEICT	bad	must		
	anow	ewn-e-r?i	le-ke"					
	INTJ	EMPH-NEG-	race-NEG					
	Once ag	erin it ende	ed up, "C	Dh dearl	This is	terrible, not ra	acing"	[cy131]
011	qənur like	ənqorə then		ten-?ew E-good-AC	•	°o-k=?m / ∙INF±EMPH	ənqorə then	
	ijan DEIĈT	/ qənur like		əmij-ewa Inthér-só	5	ron-yewe-ytə e-year-ALL	/ qejw truly	/ë
	remk-ə- folk-E-ABS		wn-a-qa APH-NEG-		ca eindeer-NE(it-á-k≐?m G be-É-INF≖EM	/ (. :PH]
		o that they ter reindeer		vell, the	y like, u	ntil the third y	vear folk die	dn't [hc086]
-	•.•	Ė.					and co or	o discussed

The universal/habitual negative is also the form used to make imperatives. It is usually accompanied by the negative imperative particle ange, as in 012, but also occurs without it.

012	iyət now	<u>ənŋe</u> NEG.HORT	<u>ekwet-ke</u> go.out-NEG	
	Now	don't go out.	-	[ot044]

Like the other negative particles, the particle angle can also be used proclausally (§18.8). Where there is no overt imperative marking, as in 013 and 014, the imperative sense of the utterance is determined by intonation and context.

Cha	pter 18		NECATION				
013	ənqen=?m that=EMPH	BABAJKA ghost	kelə spirit.3sgABS	γe-et-lin PF-come-3sg	jəlqet-r?u-y?e-t=?m sleep-COLL-TH-3pl=EMPH		
	n-ena-lway HAB-TR-unable	•	w-kə "TIXO ay-INF quiet		<u>ce</u> !" e.noise·NEG		
			irit had come make a noise		were all asleep; I couldn't [ke055]		
014	so NEG-	iw-ə-tku-l?et walk-E-ITER-DU	R NEG moth	a-ta n-in- er-ERG HAB-sa	iw-qin ay-3sg		
		<u>iw-a-tku-l?et</u> walk-E-ITER-DU					
	"Don't wan	der off all th	e time", his n	nother sald to	him, "Don't wander oft" ot023		

The phrase ane elejwetkul?etke from example 014 could also be read without the imperative sense, as 'he doesn't wander off all the time'.

When there is no negative imperative particle, an imperative reading of an utterance can also be forced by using an imperative auxiliary. In example 015 the auxiliary expresses the imperative with the intentional mood marker, and also allows expression of derision with the derisory verbal diminutive (prior to this retort by the neighbour the boy had been teasing or annoying her somehow).

015		?-ə-ŋawəcqat r-E-woman-ERG	a iw-nin say-3sgA.3sgO	" <u>ilu-ke</u> shake-NEC		<u>q-ə-twa-qaat-ə-rkən</u> INT-E-be-DIM-E-PROG		
	anə! So	ənqen DEM.3sgABS	yənin 2sg-POSS.3sgABS	plewət ??	1	cakəyet sister.3sgABS	ij an DEICT	
	tanij-a stranger-l	•	ri-7e-n" •TH-3sgO					
	The neighbour girl said to him "Don't do It you little so-ard-so; you've a sister who the strangers kidnapped!" [ot010]							

In this example the negative imperative is expressed without the auxiliary:

18.2.5 Transitivity

Non-stative negative verbs (those formed by a negative particle and intentional verb) do not differ in their argument-taking behaviour from the positive verb forms; see 003, 006 and the following (the verb -iw- *say* has an obligatory clause of quoted speech as a complement):

016 anne ik-we "cam?am" j?ely-etə q-ə-lqət-yi wajanre NEG.HORT say-NEG unable.MOD moon-ALL 2sg.INT-E-set.off-TH yonder nəlyi-n-ə-teŋ-qinet newəcqet-ti nenku wa-rkət there INTS-ADJ-E-good-3pl woman-3plABS be-PROG.3pl

Don't say "I can't"; you set off yonder to the moon, there are really good women there. [cy165]

This is unsurprising, as these verb forms are based on normal intentional inflecting verbal morphology. Non-inflecting deverbal forms, however, typically act somewhat erratically with transitive stems; this is apparently related to their less-than-fully-

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verbal nature. There is a preference for negative verb bases (like non-finite deverbal adverbs in general, see §13) to have no more than one overt core argument. There is a tendency for transitive stems in negative verb bases to be antipassivised, as in 017 and 018. Di7 waj cakej! notgena-jyam! anne ena-j2o-ka DEICT sister.VOC there-1sgABS NEG.HORT AP-approach-NEG q-a-rayia-y?e!	023 i7am a-n-caj-o-w-ka gewacqet why? NEG-CS-tea-CONSUME-TH-NEG girl Why [do you/they etc.] not give the girl tea? [nb071.3] Note that this data may not be very reliable. The educated speakers who assisted as consultants in elicitation sessions were unable to report the uses of the ine-prefix in a way that corresponded with spontaneous usage by non-formally-educated monolingual and near monolingual speakers.
INT-E-go.home-TH Hey sisteri I'm here! Don't approach, go home! [ot134] 018 tanp-ə-nen ləyen / anə janot tey-n?ine-jw-ə-nin su:b-F-3sgA.3sg0 really so first EMPH-explain-COLL-E-3sgA.3sgO iw-nin ten-ənne / ena-nekwat?olyat-ka ləyen say-3sgA.3sg0 EMPH-NEG.HORT AP-spread.sheet-NEG really ?əl-ə-tkən-ə-k q-ine-n-qit-et-y?i [] snow-E-SURF-E-LOC INT-INV-CS-freeze-CS-TH He just stabbed him, but first he explained to him, he said to him, "You absolutely mustn't spread out a groundsheet for me; freeze me on the snow" [ke130]	18.3 Negation of identity Relationships of non-identity are marked using a particle which agrees for number and person. The stem is qərəmena-* ^{VH} – qəcəmena-* ^{VH} (men's and women's varieties; compare 025 and 026), which occurs as qərəmen – qəcəmen in the third person singular; see 024 and 027. This is the same morphological alternation as the possessive ending (and which also occurs with negative participles/nominalisations, §18.7, and with demonstratives, §7.4). Note that the absolutive complement of this form is a predicate nominal and that qəcəmen(a-) + ABS is not an NP, and cannot act as an argument of a verb.
This is no more than a tendency—spontaneous examples of wholly transitive negative verb bases do also occur freely; see 019 to 021. 019 ənk?am [#] qora-yənret-ə-l?-a=?m / ləyen=?m ənnen and reindeer-herd-E-NMZR-ERG really=EMPH one qora-ŋə loŋ-ə-n-təmŋew-a n-ə-nt-ə-qin / n-ine-nt-ə-muri=?m reindeer-3sgABS NEG-E-CS-be.lost-NEG HAB-E-AUX-E-3sg HAB-E-AUX-E-1pl=EMPH And the herders didn't lose a single reindeer, we didn't. [he066]	Third person plural: 024 ank?am m?emi-1?-a-n qanwer cinit te-m?emi-ŋ-y?i and bullet-NMZR-E-ABS finally self MAKE-bullet-MAKE-TH gacamen cit m?emi-1?-a-n / te-tiŋur-m?emi-ŋ-a-1?et-y?i [] NEG.ID.3sg first bullet-NMZR-E-ABS MAKE-bow-bullet-MAKE-E-DUR-TH And the Bullet Folk eventually made bullets themselves, at the beginning they did not have bullets, they made bullets for bows (i.e. arrows). [kr051]
 piri-nin nenenə loŋ-ə-nləwat-a ləyen / take-3sgA.3sgO child.ABS NEG-E-breastfeed-NEG really ənka-cəko-ytə kuwlətku-y²e-t there-INESS-ALL fall-TH-3pl She took the child, without breastfeeding him, and simply fell inside (the hole) [cy406] anə anje a-nm-ə-ka ənan ce-qupqet-ə so NEG.HORT MEG-kill-E-NEG FUT FUT-starve-E "Don't kill him, he'll starve [by himself]!" [jo011] 	Many examples in the text are contrastive: 025 angen=?m atc-a-twa-nwa-t / gacamena_t jara-t DEM.3sgABS=EMPH hide-E-RESULT-PLACE-3pIABS NEG.ID-3pl house-3pIABS atc-a-twa-nwa-t perq-a-twa-nwa-t hide-E-RESULT-PLACE-3pIABS ambush-E-RESULT-PLACE-3pIABS They were hiding places, they weren't houses, [they were] places for hiding, places for ambushes. [kri19] 026 Iay-?orawetl?a-tang-a-t qaramena-t arucil?-a-t AUTH-person-stranger-E-3pIABS NEG.ID-3pl Russian-E-3pIABS
In spontaneous examples antipassivised negatives occur when there is a first person O (e.g. 017 and 018), whereas when there is a third person O (e.g. 019 to 021) there $>$ no antipassivisation. However, in elicitation sessions speakers will	[They were] ordinary-people strangers (i.e. Koryaks), not Russians. [ot049] Third person singular: V27 Kromo Qaa-ramk-ə-ŋaw qəcəmen Ləy-?orawetl?a-n

[nb040.9]

.

happily produce both the third person O forms (with and without antipassive), as

ye-n-ekwet-ew-lin

PF-CS-depart-11-3sg

They took him away without giving him (a chance to drink) tea.

in the following examples:

<u>ena-n-caj-o-w-ka</u>

AP-CS-tea-CONSUME-TH-NEG

022

etl?a-n personal.name.3sgABS reindeer-folk-E-woman.3sgABS NEG.ID.3sg AUTH-person-3sgABS Kromo is a Lamut woman [name], not a Chukchi [kr032a]

Examples of negative identity which are not in the third person are rarer, but do occur. These have the same pronominal endings that are found on person marked nominal forms, stative verbs, and free adjectives (§6.2, §10.3, §16.3). Example 028 shows this in the second person singular.

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Seco	ond pers	on sing	ular:			
028	anə	ləyen	ənnatal	l ya-k?ale-ma	kələle-k?eli-te /	
	50	really	of.course	ASS-hat-ASS	bead-hat-INST	
	rəpet	n-iw-	qinet '	<u>'qərəmena-iyət</u>	<u>Cəkwaŋaqaj-eyət</u> !"	
	ечел			NEG.ID-2sg personal.name-2sgABS		
	Well v	eads. They				
	even s	[cy314]				

The full set of negative identity forms are (in the pronunciation of the woman's variety-for men's variety substitute qacam with qaram):

FIGURE 18.1. Negative identity particles.

	singular	plural
1st person	qəcəmena-jyəm	qəcəmena-more
2nd person	qəcəmena-jyət	qəcəmena-tore
3rd person	qəcəmen	qəcəmena-t

If qərəm-qəcəm+VH is taken as the stem, the endings are the same as those of demonstratives (e.g. notgen+VH / notgena-VH; §7.4) and negative O-focus participles (e-___-kəl?in-VH / e-___-kəl?ine--VH; §8.2).

This agreeing negative 'particle' belongs to a word class all of its own (§4.8.5). The closest morphological similarities are to demonstratives (which also have endings with the -in# ~ -ine- alternation), but the syntactic distribution differs in many ways; most importantly, gacamen(a-) + ABS forms a predicate, not a noun phrase, and cannot act as an argument.

18.4 Negative existential

Negative existentials ('there is no...', 'there aren't any...') are usually formed by the particle ujne with a complement in the privative case (§6.5.3), as in examples 029 and 030. The privative case has the form e-__-ke-VH, which is the same as the stative negative verb base (§18.2.4).

029	NEG.EXI=EMPH PRIV-doctor-PRIV INTS-INTS-self-3pl						
	n-ə-n-miycir-ew-qinet im-ə-c HAB-E-CS-work-CS-3pl REST-E- There was no doctor, they did ex			nething	by tilems	elves.	[ch01]
030	ənqo iw-ni then say-3s	in "na gA.3sgO but	•		e-milyer PRIV-gun-P		
	ləγen=?m realy=EMPH	moo-qor caravan-deer.3s	/ IgABS	qora-ŋ: reindeer-3		n-iw-qin HAB-say-3sg	

q-ine-piri-yi" "үәто 1saABS INT-INV-take-TH

Then she said to him, "But there's no gun", and the harness deer said, "Take [ke084] me"

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		-		ry also occurs wit as a verbal base (§1	•	nent. In this
031	ləγen≃?m really=EMPH	ŋan DEICT	remk-ə-n íoik-E-ABS	w?i-tku-r?u-y?i die-ITER-COLL-TH	kolo INTS	

really=EMPH [DEICT folk	-E-ABS	die-ITER-COLL-TH	INTS		
ra-jekwe-jŋ-ə	-t	ləyen	taŋ-əməl?-etə	ujŋe	n-ə-n?el-qinet	
house-ROW-AUG	-E-3plABS	really	EMPH-all-ADV	NEG.EXIST	HAB-E-become-3pl	
So then mass	ses of peop	le died,	households in the	eir entirety p	bassed away /lit.	
became non•e	existent].				[he01	2]

The negative existential is structurally related to a negative possession construction discussed in §18.5. Nominals in the privative case with negative existential meaning can also be nominalised with the -l'- suffix to make an argument rather than a predicate (§18.7.3).

18.5 Non-possession ('lacking')

There are two constructions which express negative (non-)possession. The first of these is a nominalised, person-marked form of the negative existential particle with a privative case complement, as in 032 and 033.

032	<u>ujŋəl?-iyəm</u> NEG.POSS-1sg	<u>orw-ə-ka</u> sled-E-PRIV	ujŋəl?-iyən NEG.POSS-19		<u>a-qora-ka</u> PRIV-reindeer-P	RIV	
	I don't have a	a sled, I don't l	have reindee	r		[cy048]	
033	?ə-lyi-req-ə-?d 2/3.COND-INTS-d	ərijatal of.course		r <u>inal?-iyat</u> -NEG.POSS-2sg	<u>á-gora-ka</u> PRIV-reindeer-PRIV		
	<u>uiŋəl?-iyət</u> NEG.POSS-2sg	əmə and	<u>orw-ə-ka</u> sled-E-PRIV	ləyen really	/ req-ə-rk do.what-E-	ən= [?] m PROG=EMPH	
	req-e q-ə-r ⁷ ela-ytə-ye? what-INST INT-E-race-go.to-TH						
		you do there?l ither. What wi				ou don't even [cy056]	

This construction is usually only used with first or second person. The construction is syntactically a type of copula clause, and cannot function as an argument of a verb. The form ujgal?- seems like a -l?- nominalisation of the particle ujge. It is, however, formed irregularly (with a instead of e), which can be taken as evidence that this form is synchronically distinct from the negative existential.

The second construction showing negative possession is made by a nominalisation of a negative property; see for example 034. Nominalisations of privatives and negative verb bases have wider functions than just showing non-possession; these functions are discussed in §18.7. Unlike the construction above, the nominalised negative possessive can function as a modifier within an appositional noun phrase, and thus as an argument of a verb. The reason for this apparent exception is semantic; a nominalised negative possessive argument is actually a positive/existent referent, e.g.:

1

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034	anə 50	qənwet finally	<u>te:ŋ-u:jə:ŋ</u> EMPH-NEG.i		<u>a-rənn-ə-kə-17-en</u> PRIV-tooth-E-PRIV-NMZR-3sgABS	
	?ey-ə-jŋ-ə-n wolf-E-AUG-E-3sgABS		ənnen one.NUM	ha	Iəp-rətən ck-loolh.3sgABS	
	And	once [there a	ppeared] a	too	thiess wolf, with one fang	(jo022)

A negated argument would be something like *no tooth was out of place;* in this example the referent is *the toothless one.*

18.6 Negative adjectives

Adjective stems are negated using the circumfix e-___-ke^{-VH}. This represents yet another function of the circumfix which marks the privative case and one of the kinds of negative verb base. When predicative, negative adjective stems are accompanied by the auxiliary -twa-. This is the same analytic structure that nonnegative adjectives have in contexts with marked tense-aspect-mood. Note that negative adjectives have no equivalent to the TAM-unmarked free adjective structure; the closes: semantic equivalent would be an auxiliary in the stative habitual inflection, as in the following example:

035	ləγen <u>taŋ-a-p?a-ka</u> really EMPH-NEG-thirsty-NEG			<u>n-ə-twa-qenat</u> =?m HAB-E-be-3pl=EMPH	ləmŋ-ewər=?m further-so=EMPH	
	ləyen=?m really=EMPH	<u>atqaw-ka</u> Iame-NEG	[#]	<u>in-a-twa-qenat</u> =?m HAB-E-be-3pl=EMPH	[]	
	They are n	ever thirsty, t	hey do	on't go lame		[he110]

The aspectually marked and unmarked predicative adjective forms are discussed in §§16.4-5.

Negated adjectives can also occur in a nominalised form; see §18.7.2.

There is no evidence in spontaneous data for incorporated negative adjectives, that is, for negative adjective in attributive function. These most likely do not occur productively, as adjectival attribution in general is quite rare in oblique cases. In the absolutive case nominalisations of negated adjectives can enter into a nounphrase to make what is in effect negative adjectival attribution.

18.7 Nominalisations

Nominalisations of negative forms are all made with the nominalising suffix -l?-(§§8.2-3). These nominalisation can be deverbal, in which case they constitute negative participles. Negative participles have at least the possibility of syntactically dependent nominals. There are also nominalisations formed from negated adjectives and from nominals in the privative case.

Nominalisations of negative forms act as TAM-unmarked predicates, or are arguments of other verbs. They frequently occur in the absolutive case in apposition with other absolutive nouns (§9.2). Nominalised and non-nominalised

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forms are to some exten	: interchangeable, as the followin	g example shows (from a
text on traditional child	aising practices):	
		• - //

020	•	n-ə-jn-ə-n NG-E-3sgABS	11	really		NEG-be.ill-E-INCH-NEG	11	əməŋ and
	?emi	a-pecqajo-	<u>110-1</u>	ka-l?-en	<u>a-t</u>			•
	INTER	NEG-diarhoea	-INCH	-NEG-NM	ZR-TH-3pl			
	When	there is extr	eme	cold the	ey didn't	fall III, and they don'	t get d	diarrhoea
								[ch17-19]

In this example the negative form of one intransitive verb (logt'alaggota didn't fall ill) and the negative participle form of another intransitive verb (apecqajoggokal'enat don't get diarrhoea) occur in much the same syntactic environment in adjacent clauses.

18.7.1 Deverbal (participle)

There are two negative participle forms, e-__-kə-l?--^{VH} and luŋ-__-l?--^{VH}, which are clearly related to the negative verb bases e-__-ke-^{VH} and luŋ-__-(t)e-^{VH} respectively. Negative participles are most commonly formed from intransitive verb stems, as in the following:

037	n-ilu-l?et-qin HAB-move-DUR-3sg	<u>lon-kətəjyat-</u> NEG-wind.blow-E		ləyen really	
	spear-E-DIM HAI	o-req-a-l?et-qin B-E-do.something-E	-DUR-3sgS	ar was doing this.	[ot039]
D38	ran ləyen DEICT really ləyen <u>luŋ-ulw</u>	ətr?et-teyən end-LIMIT <u>vew-ə-1?-ə-n</u> :E-NMZR-E-3sgABS	remk-ə-n folk-E-3sgABS remk-ə-n	rewa-nwa-k=?m night.herd-PLACE-LOC=EMPH Jaye-ceq-qonpa	[01000]
	n-ə-cejw-ə-təle-q HAB-E-roam-E-waik-3:	in	-		
	And in those day always walked a		n night duty d.	idn't rest in one place, the	people [he026]
T 1					1

There are occasional examples of a negative participle of a transitive, such as the following:

039	ənr?a tien	ləyen really	•	a-pat-kə-l?-en rilq-ə-ril NEG-cook-NEG-PCPL-3sgABS gut.contents-E-REDUP.3sgABS				
	yaryən-ken outside:REL.3sgABS wa-1?-ə-n be-PCPL-E-3sgABS			gora-nm-at-ə-nwə-k təq-ə-nwə-k reindeer-kill-TH-E-PLACE-LOC pour-E-PLACE-LOC				
			[] n-ik-w?e-n / 3sg.INT-say-TH-3sg			"waj DEICT	ŋotqen DEM.3sgABS	
		al-TH-E-3sg	2.IN	qut-ə-rilq-u-yi" T-E-frozen-E-gut.contents-				

And so [there was] only raw [reindeer] gut contents poured out on the reindeerslaughtering place, on the pouring-out place. They would say, "Eat this, eat frozen gut contents!" [cy016]

336.	NEGATION	Chapter 18	Chapter 18	NEGATION	
verb -wjat- <i>untle</i> is However, the existe	isitive examples like this are very rate transitive, as it is in all verbal ex nce of a form wəjat-qora-t unharn at the stem is actually labile, since trans noun heads.	xamples in the corpus. nessed reindeers [cy052]	participles in ekəl?i	rms from adjective stems are morph n(e-). There are very few examples in neməqej <u>e-wəlt-ə-kə-l?-in</u>	n the corpus.
040 ləyen qora-t really reindeer-	ye-kwut-linet əngin ləye		Those ones were These forms are no long	also not peaceful. ger in the adjective word class, and	[kr051] they act syntactically

lon-a-wjat-a-1?-a-t NEG-E-untie-E-NMZR-E-3pIABS He harnessed the reindeer, as they weren't completely untied. [cy267]

Example 041 shows a participle of the labile verb -llep- look. The suffix -tku is either an iterative marker, or iterative fused with antipassive. However, it is clear that in this example the verbal stem complex -llepətku- is intransitive, since the argument r?eteta at the road (the object/source of perception) is in an oblique case.

041	<u>e-llep-ə-tku-kə-l?-ə-turi</u>	r?et-etə	rəpet	1	
	NEG-look-ITER-NEG-NMZR-E-2plABS	road-ALL	even		
	em-?eqe-r-in?eten-ŋ-e REST-bad-DESID-win-DESID-VBase	yeken-ə-1?et-ə-k race-E-DUR-E-INF			
		-			

You (pl) don't even look at all at the road, you're all out to win in the race [and [cy150] nothing more]

Third person negative participles formed from e-__-ka-l?- have an additional Ing -in(e-), giving an overall form of e-__-ka-l?-ine-. The -ine ending suggests the possessive suffix (which is not itself a case, but which cooccurs with other cases: §8.7.1). However participles in the lun-___-1?- form do not share this morphological behaviour, which suggests that this suffix isn't a semantically motivated possessive marker. Interestingly, when a negative participle is lexicalised it loses this suffix. Thus, aalomkal?en is a participle meaning '(the one) who didn't listen' (plural is aalomkal?enat; underlying morphological composition *a-walom-k-al?-ena-t). The corresponding personal name is Aalomkal?an (plural Aalomkal?at), which does not have the suffix.

042	"okkoj EXCL	mej! EXCL	1	ləyi-req-?in iNTS-what?-wo			taŋ-wen?əm INTS-INTS
	ənan FUT	<u>a-alom-k</u> NEG-listen-N		<u>en</u> VMZR-3sgABS	naqam but		pətkew-kə" .target-INF
		at kind of ng]_target!		f is this? It's	too much	Bu	t what a disobedient [lit. not- [ot056]

The -in(e-) ending also has something in common with the demonstrative (§7.4) endings and the ending of the negative identity particle (see §18.3), in that the absolutive singular form in made by truncation (to -in), while all other forms are made with suffixes attached to -ine-.

18.7.3 Denominal (privative)

like other -1?- nominalisations (§8.3).

Nominalisations of the privative case are morphologically identical to participles of the form e-___-kəl?-, including the mysterious -in(e-).VH suffix which occurs in the third person (§8.2).

044	wəne INTJ	/ naqam but	ujne NEG.EXI		nə•kə•l?-in me•PRIV•NMZF	R-3sg/	ABS	
	ətrec only	Nəylo-1?-ə-qa work.kuxlanka-Ni	-	igABS				
	"Well	້ [she says,] bເ	it she does	n't even	have a nàn	në, 0	nly "Work Ku	xlanka [ke159]
045	ənqen this	n-ommacaj HAB-embrace-3	•	ləyen really	pojy-a spear-INST	1	cit≓?m first=EMPH	
	ujne NÉG.EXI	e-milyer. PRIV-gun-PR	kə- <mark>1</mark> ?-inet IV-NMZR-3pl		igur-e ow-INST			
	He just	embraced a sp	bear, there	weren't	guns yet, b	ows	only.	[jo:01]

18.8 Negative particles without complement

Negative particles also occur in a 'proclausal' function, that is, without any syntactic dependency relationships with other elements. Proclausal megatives can be the answers to polar questions (046) or independent propositions (e.g. 047). Note that almost all the following are quoted speech, and the exception (047) is from conversation rather than narrative.

046	"wəne INTJ		ejwe qol Ily one.3s		neniri omeone.35gABS	•	y to-len?" giva.birth.to-3	sg	
	" <u>wane</u> NEG.N								
	"Is that really true, year bore no-one else?" "No I don't, there's no-one" [ot016								
047	ii yes	ətr ?ec-teyə r all-LIMIT	n noroq=?m three=EMPH	waj DEICT	t-ə-Lw-ə-nat 1sg-E-tell-E-3pl	1	<u>ujne</u> NEG.EXI	ətr?ec all	
	Yes, tl	hat's the end	, I've told thre	e (storie	s], no more			[ka29]	

Ail the negative particles can occur in proclausal function. Each particle retains its basic tense-mood meaning, roughly translated as follows:

38. NEGATION	Chapter 18	Chapter 18 NEGATION
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wanewan <i>no</i> , <i>I/it didn't</i> (negative non-futu qərəm~qəcəm <i>no</i> , <i>I/it won't</i> (negative futu ənŋe <i>don't!</i> (negative imperative) ujŋe <i>there isn't any</i> (negative existential)		The negative particle etlə is sometimes used to answer yes-no questions instea wanewan or qərəm-qəcəm. Unlike these, it doesn't encode any to information, and rarely occurs in analytic constructions with inflecting verbs. the following:
<pre>qərəmen(at)~qəcəmen(at) it isn't, there're etlə (general negative; polar questions and le the general negative particle etlə can</pre>	Imperative)	053 iw-nin qejwe atcaj-qaj ik-w?e-n anqen / say-3sgA.3sgO truly aunt-DIM.3sgABS say-TH-3sgO this.3sgABS raj-anka atcaj-qaj-a-na t-a-re-tkiw-a-cqak-w?e? // DEIOT these guit DIM 5 All All are 5 EUX stansisty 5 DUDD 711
mation question, it is far more normal to especified forms.	ise one of the other semantically	DEICT-there aunt-DIM-E-AN.ALL 1sg-E-FUT-stay.night-E-PURP-TH <u>et1a</u> // no
ative non-future particle wanewan: ik-w?i n-ə-req-iyət? // <u>wanewan</u> say-TH HAB-E-do.what?-2sg NEG.NFUT <i>He said, "What are you doing?"</i> — "Nothing	- [ke165]	a q-iw-ə-cqik-w-ə-n // INTJ INT-say-E-PURP-TH-E-3sg He said to him, "Did you truly tell your aunty 'I'm going to stay there at my (other) auntie's'?" "No"
ative future particle qərəm-qəcəm:		"Well go and tell her" [cy028
anə <u>qərəm</u> petle-qej t-ə-re-jet-ə so NEG.FUT soon-DIM 1sg-E-FUT-come-E "No I won't, İ'li be back soon"	[cy182]	The etlə particle also intermittently occurs in the function of the nega imperative particle ənŋe (054).
		18.9 Negative adjuncts The most common negative adjunct is an oblique nominal in the privative case negative verb base. There are very occasional sentences which could be analyse having an adjunct which is negated by a particle. Example 054 shows what m be analysed as a negated locative adjunct:
INTJ INTJ INTER whence re	en(a-): ora-ytə n-ajəl· aw-qen indeer-ALL HAB-lear-3sg leŋ-yəry-ə-jŋ-ə-n" //	054 <u>etla nutku etla lewt-a-k</u> etla e-lqeynew-ke NEG here NEG head-E-LOC NEG NEG-shoot-NEG [You] don't shoot it here in the head. [and
INTJ reindeer-3sgABS bad bad-he n-iw-qin "anə qərəmena-t" HAB-say-3sg so NEG.ID-3pl "Oh dear me! Where are they from?" - She h	irt-NMZR-E-AUG-E-ABS	However, this may be better treated as multiple marking of clausal nega rather than negation of the individual constituent. It does not seem to be poss to have negation of a peripheral constituent alone, such as *etlə lew qəlqeynewən '* shoot it not in the head [but rather somewhere else]'.
reindeer, it's [they're] terrifying!" He says "No they're not"	[cy431-432]	18 10 Éduical pagativas
netimes it is unclear which negative partic shows an exclamation made by a boy who e he had a sister. The mother claims that t who died. The narrator points out that she	is traumatised by the rumour that here was never a sister, except for	18.10 Lexical negatives There is also an assortment of inherently negative stems. These do not have systematic relationship with each other. The four listed below are representat They include a modal particle, a 'transitive particle', an inflecting verb stem. ar verb base.
clamation:		The form cam ² am is an inherently regative model particle with impossibili

 052
 n-iw-qin
 "wəne
 wanewan!
 qərəm
 waj!
 cakəyet

 HAB-say-3sg
 INTJ
 !!F.G.NFUT
 NEG.FUT
 DEICT
 sister.3sgABS

 yəmn-in
 ?emitlon?"

 1sg-POSS.3sgABS
 INTER.EMPH

 He said "Oh no! No! Where is my sister?"
 [ot019]

• .

1

6

: 1

꼝

 055
 cam?am
 gutku
 ra-twa-y?a
 / gaanre
 racyoly-eto
 q-o-lqot-y?i

 unable.MOD
 here
 FUT-be-TH
 there
 valley-ALL
 2.INT-E-set.off-TH

 You can't be here, go there to the valley!
 [ke070]

The form cam?am is an inherently negative modal particle with impossibilitive

meaning (§4.8.9). It always combines with a verb in the future tense (as does its

opposite mecanka, which indicates ability or possibility).

r

340.

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The form **qoo** *I* don't know is a 'transitive particle'. It has an understood first person singular subject and optionally governs an argument in the absolutive case. It cannot take an auxiliary or in any other way mark further verbal categories. This is one of only two argument-taking particles in Chukchi (the other is **qoro** gimme; §4.8.7).

NECATION

056 qoo / et?əm anə r-ile-r?u-γ?i I.don't.know probably so FUT-rain-INCH-TH I don't knosv, probably it will rain.

[na087:6]

The inflecting labile verb stem -lwaw- means *be unable*. It combines with another verb in the infinitive (agreeing in transitivity). There is no corresponding verb stem meaning *be able*.

057	n-ə-Iwaw-qen HAB-E-be.unable-3sg	ijelwəl herd.3sqABS	r-ə-rayt-at-ə-k CS-E-go.home-TH-E-INF	
	They couldn't bri		5	

[ke176]

Dee example 013 for a further example.

The form yemo not know is a transitive verb base, which combines with a transitive auxiliary to make an auxiliary verb (§17.3.2). The corresponding positive verb is layi know; neither form is derived from the other.

19

Pragmatics of sentence form

19.1 Introduction

This chapter contains a sketch of some of the larger principles of Chukchi linguistic organisation, which demonstrate the central position of discourse pragmatics in grammatical structure. The main areas to be dealt with here are the principles underlying selection of (i) word order, and (!!) type of specification of discourse referents (noun, free pronoun, bound pronoun/verbal cross-reference). These grammatical features of sentence form are motivated by pragmatic factors involving the notions of focus (§19.1.1) and topic (§19.1.2).

Temporally sequential clauses are generally ordered iconically into sentences; the linear production of a narrative follows the same temporal sequence as the events being represented. Violation of this principle is very rare, and instances can usually be shown to have exceptional pragmatic force or to be simply afterthoughts, e.g.:

001	ləyen	ənkə=?m	a-taaq-o-ka	t-ə-n ⁹ e ¹ -ə-k	
	really	there=EMPH	NEG-tobacco-CONSUME-NEG	1sg-E-become-E-1sg	
	cit=?m	n-ə-taaq	ɔ-jɣəm		
	first=EMPH				
	It's there	[kr172]			

This account of word order and anaphora is based on narrative texts, which are the richest and most coherent genre represented in my corpus. I have not attempted an account of conversational structure—due to the difficulty of collecting data, the sociolinguistic situation of Chukchi speakers (see §1.2, §1.4), and limitations of time and space, I could not do justice to this huge topic. However, I do occasionally make reference to conversational data when it sheds light on significant features of the narrative (for example, in comparing the use of personal pronouns in quoted speech to conversation, and information structure in question and answer pairs, e.g. 002a-d). While narrative conventionally also contains conversational interaction, this interaction is limited, and the roles of the speech act participants within storytelling genres are clearly delineated between narrator and audience.

This description uses the framework for discussing the relationship between information structure and the form of sentences set out by Lambrecht (1994). This

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framework (or elements thereof) has been adopted by many linguists studying the syntax-pragmatics interface with a broadly functional approach (e.g. Van Valin & LaPolla 1997).

The final section of this chapter (§19.5) consists of a comparison of two versions of the same episode of a folktale as told by two different (unacquainted) storytellers.

19.1.1 Definition of 'focus'

For the purpose of description I define 'focus' as the pragmatic category indicating the newly asterted information of a sentence, as opposed to information which is presupposed by virtue of already being known or by being taken for granted (Lambrecht 1994:213). This definition is descriptively useful since it provides a set of canonical examples of focus which can be shown to correlate with Chukchi word order properties. Focussed elements appear earlier in the sentence than nonfocussed elements. The focus of a sentence may be a verb or peripheral element, or a nominal.

Two canonical instances of focus are found in (i) information questions and their answers, and (ii) contrastive sentences. In both these types of utterance the new and important information is easily distinguished from presupposed information.

•EXAMPLE: INFORMATION QUESTIONS

The 'information-seeking' element of a question is focussed, as is the 'informationcarrying' element of the answer. Sentences 002a-d below are a short, episodically self-contained, section of a conversation, and in each sentence the element which would be predicted to be focussed is structurally indicated through word order. In the initial question (002a) the personal name Nina is focussed; as this name hasn't been mentioned before it is introduced as a new topic (discussed §19.1.2). In the second question of the insertion pair (002b) the interrogative particle ?emi (here *which*) is focussed, providing a new sentence element which has to be responded to. This response is forthcoming in 002c with the possessive pronoun $\gamma anin your$; this personal pronoun is focussed because it is the main information-bearing element of the sentence. Likewise, the delayed answer to 002a given in 002d focuses on the negative particle, once again the new information-bearing element.

002a	<u>Nina</u>	wanewan	n-ə-jet-y?e-n			
	personal.name.3sgABS	NÉG.NFUT	3sg.INT-E-come-TH-3sg			
	SPEAKER 1—Nina hasn't come [, has she]?					

- 002b <u>?emi</u> Nina? INTER personal.name.3sgABS SPEAKER 2—What Nina?
- 002c <u>yənin</u> Nina 2sg-POSS.3sgABS personal.name.3sgABS SPEAKER 1—Your Nina.

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002d	<u>wanewan</u> NEG.NFUT	SEJČAS now	EJ to.her	NIKOGDA ¹ "never	

[kr225-228]

SPEAKER 2—No, she doesn't have time.

• EXAMPLE: CONTRAST

The following exclamation illustrates nominals used contrastively; a father is castigating his three sons, whose work ethic contrasts unfavourably with their cousin Cakwaŋaqaj's:

003	[]	kakomeji INTJ		<u>wanaqaj</u> nal.name.3sgABS	enmec already	ya-ŋa PF∙ma	wtən-len 1y-3sg	
	əmə and	ya-nanan PF-child-bea		-len! //				
	wa l?	2 <u>m</u> qo S=EMPH alwa 2at-ə-1?-ə-toro R-E-PCPL-E-2pl/	el /	joro-cəko sleeping.chamber- //	INESŠ	ənkə there	ləyen really	
	Oh myl <u>Cakwaŋaqai</u> is already married, a child's even been born! <u>You lot</u> are always in the sleeping chamber, you're only ever there! [cy327-328]							

Apart from focussed information presented in questions and answers, and contrastive focus, there are also other pragmatic functions which occur in sentenceinitial position. These include new topics (see §19.1.2) and important new information. Taken together, all these pragmatic functions correspond to the parameter of 'newsworthyness', as defined by Mithun 1992 in her account of the principles for determining word order in pragmatic word order languages (Chukchi will be shown to be one of these, §19.2). For Chukchi descriptive purposes 'focality' (according to Lambrecht 1994) and 'newsworthyness' (according to Mithun 1992) should be taken to be synonymous, as the pragmatic category which determines sentence or clause initial word position.

Lambrecht distinguishes three different types of focus structure

(i) argument focus-focus on a nominal, see example 003 and §19.2.1

- (ii) predicate focus—arguments understood (presupposed), focus on predicate (usually a verb and its bound pronominal affixes), see §19.2.2
- (iii) sentence focus—no presupposition, argument/s and predicate all focussed, see §19.2.3

19.1.2 Definition of 'topic'

A 'topic' is an argument which the discourse is construed to be 'about' (the notion of the 'aboutness' of a topic is discussed in Chafe 1976, Lambrecht 1994). The grammatical corollary of this from the Chukchi perspective is that a topic is an

¹ The switch to Russian in 002d is ironic, and refers to Nina's preference for the attractions of (Russian language) social life in the village over Chukchi traditional craft activities with her mother in the tundra.

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element already established in the discourse in such a way that it is retrievable without overt nominal specification; the presence of the topical argument is evident from the bound pronominals of the verbal cross-reference.

A 'new topic' is something of a contradiction in terms; a 'new topic' is really a focussed noun which will become a topic. New topics occur sentence-initially, along with other 'information-heavy' focal elements.

The following polar question establishes a new topic **nenen** baby/s in the sentence initial position:

 004a
 nenena=?m
 ary.in
 atl?a.y
 reen
 n.a.uwa.qen?

 baby.3sgABS=EMPH
 3pl-POSS.3sgABS
 mother-LOC
 with.PP
 HAB-E-be-3sg

 INTERVIEWER
 Does the baby remain with their mother?
 [aa2.26]

It is not in fact possible to answer this particular question with a simple 'yes' or 'no' (the speaker shows himself willing to use single yes/no answers in other sections of the text), and so instead it invokes a certain amount of explanation. This has two contrasting parts; (i) atl?ay reen natwagen it's [they're] with the mother and (ii) ?enqu ninetcaginet she rejects them. The argument nenena the baby/s is now the topic, and so is only ever indicated by verb agreement (S of natwagen and O of ninetcaginet and nenalyerkapcewagen):

0045	ətl?a-y mother-LOC	reen with PP	n-a-twa HAB-E-ba	•	ənnen one	yiik year	ewar then		rena=?m ear=EMPH
	<pre>?enq-u reject-VBase</pre>	n-ine-tc- HAB-TR-Al	-	ləyeri really		1•lγe•rk R-INTS∙te	əpcew-ə at-E-3sg	-qen	ι]
	INTERVIEW. she rejects i					ier one y	vear, the	n after	one year [aa2.27]

The orienting elements ewar jawrena *then next year* occur in between the two clauses, iconically marking the juncture of the two different time periods being discussed (see §19.2.4).

Note that topicality is a pragmatic category which applies to arguments, whereas focus can apply to any element. Narratives are generally about a relatively small and stable set of referents (e.g. people) in a series of actions and events. While an event can recur with a series of different arguments/referents, this is pragmatically marked. An event construed without any of its arguments is highly abstract, and is not the sort of thing that people typically talk about. Thus 'aboutness', and hence topicality, is more naturally a property of a nominal argument/referent, not a verb. This does <u>not</u> apply to focus—new important information is as happily an action or event as it is a referential entity.

19.2 Pragmatic word order

Chukchi is typologically a pragmatic word order language. Words are ranked so that the focussed (or newsworthy) element comes first. An element may be focussed

due to a variety of pragmatic factors: it may represent significant new information, introduce a new topic, or it may be contrasted with something else.

It probably doesn't make descriptive sense to claim that Chukchi has some kind of basic, syntactically defined word order (i.e. a word order typology as discussed by Greenberg 1963 and many others). As shown in figure 5.1 of §5.2, Clukchi does have a statistical preference for certain word orders; however, a much stronger conclusion which can be made from a statistical investigation of relative placement of verbs and nominal arguments is that overt nominal arguments of verbs are in fact slightly dispreferred, and that verb agreement affixial pronominals are frequently the only exponents of an argument. Single overt arguments occur only slightly less frequently, but it is particularly unusual to have two overt nominal arguments in a clause—this happens so rarely that it is impossible to make any statistical claims about preferred order. The frequent use of pronominals bound to the verb in preference to free pronominals is typologically common in pragmatic word-ordering languages. Mithun (1992) discusses a genetically divergent selection of such languages and finds this feature to be the norm:

A crucial feature of purely pragmatically ordering languages may be the nature of the grammatical relationships between the verb and associated constituents. In languages like Cayuga, Ngandi, and Coos, the pronouns bear the primary case relations to the verb. The associated noun phrases function grammatically more as appositives to the pronominal affixes, rather than directly as verbal arguments themselves. (Mithun 1992:58)

Thus the term 'anaphora' is probably inappropriate to refer to an argument of a clause not represented by an overt nominal, since it suggests that nominals are in some way 'left out' or 'deleted', when in fact the argument is always represented pronominally by (explicit or implicit/paradigmatic) cross-reference on the verb.

19.2.1 Argument focus

A focussed argument is placed at the beginning of the sentence. The different pragmatic functions of argument focus are illustrated in the following examples.

Note that discourse particles and conjunctions providing wider contextualisation can precede the syntactically linked elements of the sentence (§19.2.4), for example:

005	qənwer	?inə	pirl-nin	
	finally	wo!f.3sgABS	take-3sgA.3sgO	
	Finally.	he caught a v	wolf.	[ot027]

Examples 006b-c, 007b show contrast and new topics. Examples 006a and 007a show argument focus in information questions.

In the context of an informal interview the interviewer asked the following multipart question:

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006a ənk?am 40ra-ŋa yənnik-e miŋkri n-ə-nm-ə-qeri and reindeer-3sgABS animal-ERG how? HAB-E-kill-E-3sg amalwaŋ ?iy-e=?m ənk?am kejŋ-e=?m ənk?am qeper-e? variously wolf-ERG=EMPH and bear-ERG=EMPH and wolverine-ERG INTERVIEWER And in what different ways do beasts kill reindeer; wolves [an022]	In the next example a magical deer is instructing a boy in the correct manner of slaughtering; the deer and the boy have already been talking, and the fact that a knife should be used (rather than, for instance, an axe) has already been established. The noun rennelyen <i>antler</i> is used for the first and only time at the beginning of 008c. Although this noun is not a new topic (it is never again referred
The focus of this question is the argument qoraŋ ə <i>reindeer</i> , which appears initially, provides the new topic; this referent is not overtly referred to in the subsequent discourse.	to) and it is not contrastive, it is newsworthy information, as it the key piece of information required to get across the correct slaughtering method. 008a wen-campa-jg-a-n alama
The answer to the question in 006a has several parts, which involves listing a series of contrasting elements (006b-c and later 007b). Each of these contrasting elements is also a reactivated topic.	tamed-steer-AUG-E-3sg apparently STORYTELLER — It was a harness steer it seems. [ke127] 008b ii layen=?m wen-campa yes really=EMPH tamed-steer.3sgABS
006b geper-e itək layen cama notqo layen wolverine-ERG so really and from.here really waj notqo renrely-epə // DEICT from.here neck-ABL 006c ?iy-ə-t itək jaal-yətka-t janor n-ə-piri-qinet // wolf-E-3pl so back-leg-3pABSI first HAB-E-take-3plO INTERVIEWEE The wolverine also grabs on from here, from the back of the neck. And wolves, they first take the back legs. [an023-024]	LISTENER I — Yes, [it was] simply a harness steer. [ke128] 008c <u>rənn-ə-ly-ə-n</u> ŋotqo q-ə-piri-y-ə-n q-ine-piri-yi antler-E-SING-E-3sgABS from.here 2.INT-E-take-TH-E-3sg 2.INT-INV-take=TH ənk?am NOZHIK qərəm m-ə-l?u-?e-n and knile NEG.FUT 1sg.INT-5-see-TH-3sg STORYTELLER — "Grab [my] antler here, grab me an: I won't see the knile" [ke129]
Sentence 006b was accompanied by gestures illustrating the motion of a wolverine (his hand demonstrating the jaws) seizing a reindeer by the neck (the speaker's own neck). The pragmatic relationships of the different nominals are clearer in 006c, which is more difficult to physically demonstrate. The most newsworthy item is the new/renewed topic, followed by the new information (where the animal attacks), followed by a verb indicating the event. The fact that the event is an attack upon a reindeer is given; the reindeer itself is not mentioned at all apart from the reference to the body part, and the mode of attack (grabbing/biting/seizing) is fairly obvious from real-world knowledge of wolves.	19.2.2 Predicate focus After 008a-c, the storyteller says: 008d tanp-a-nen stab-E-3sgA.3sg0 really He just stabbed it [ke130] Here the focus is on the action of stabbing; the identity of the one stabbed is presupposed, since the entire episode is a description of how to slaughter a reing.
After 006c the speaker goes into further detail about wolves, and then the questioner nudges him back to the remainder of the initial question (007a):	Predicate focus can occur when the identity of the arguments is already established.
007a anraq kejŋ-a-n miŋkri? and bear-E-3sgABS how? INTERVIEWER — And how about the bear? [lit. And the bear how?] [an027] 007b kejŋ-a-n=?m itak layen LJUBOE MESTO lamge bear-E-3sg=EMPH so really any place further ŋan ŋojŋ-epa layen n-ine-piri-qin DEICT tail-ABL really HAB-TR-take-3sg INTERVIEWEE — The bear, like any place, perhaps by the tail it takes it.[an028]	Example 009 shows predicate focus and argument focus in adjacent clauses with the verb atc?at- go to bed. In this story the boy is roaming the tundra at night disguised as a wolf. His parents are suspicious, and forbid him to go out, but he tricks them, and will get up again as soon as they are asleep. The boy is an already established topic, and so is referred to by verbal cross-reference. Because there is a contrast being made between the behaviour of the boy and his parents, an overt personal pronoun (§7.2) is used rather than just the implicit 3sg agreement of the

verb atc?aty?e:

Once again, the reactivated topic takes the first place in the sentence (kejnon bear), followed by new information which follows logically on from it (nejnensis by the tail), then a minimum of already given information to specify what kind of event (ninepiriqin It seizes It).

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009	neme also	ləyen really	wulqətwi-l evening-SEQ	c ne als	eme 0	ləyen really	<u>atc?at-y?a.t</u> go.to.bed-TH-3pl	<u>əti?a-t</u> molher-PL		
	ewat then •	<u>etlon</u> 3sq.ABS	nemaqej also	ewət then		?at-y?e o.bed-TH				
	Again	~	ening, again .	his pare	ents v	vent to be	ed, and he too w	ent to bed. [ot062]		

The first clause (atc?aty?at atl?at the parents went to bed) is setting the scene for the event of interest in the second clause. The important information that this clause has to impart is that a particular event occurred; the identity of the participants is not as important as the fact that it was bedtime. Thus the first clause has predicate focus. In the second clause (atlon atc?aty?e he went to bed) the argument (he/the boy) is focussed. The fact that the boy also went to bed is counter to what the audience might expect, since we know the boy spends his nights roaming the tundra. Note that the adverb neməqej also, too occurs adjacent to the pronoun, not the verb, i.e. He too went to bed, not He went to bed too.

19.2.3 Sentence focus

Some sentences and clauses contain no formal presupposition. Overt arguments of the predicate are present as well as the verb itself, and all elements are pragmatically focussed; it is not clear what determines word order within focussed sentences.

The beginnings of stories generally have sentence focus, since there can be no presupposition. It is very rare to have two overt core nominals in a clause, since in discourse at least one argument (and often both) of a transitive verb is usually zero-pronominalised. Example 010a-d starts with a discussion of what story to tell next; there is argument focus on neme **qol** that one again (010a), and **penin** the previous [one] (010b-c). However, when the storyteller actually begins the story there is no presupposition, and so there is sentence focus.

010a	and aga	me qol in one.3sgABS And then I'll tell	-	ell-E-TH-E-3sg	ewət then	11	(ke285)
0105	ej penin yes previous SPEAKER 2 — 2	ll Yes, [the one you	told] prev	iously?			[ke286]
010c	penin laye previous really	.	//				
010d	enmen once.upon.a.time	/ <u>?eqe-1?-e</u> bad-NMZR-EF	[] RG	ya•nm•ə•le PF•kill•Ē•3pl	nat		
	<u>ətləy-ə-t</u> falher-E-3plABS	<u>əmmemə</u> molher,35gABS					
	SPEAKER 1 — ' killed the fath	The story [I told] er and mcther.	previous	y Once up	on a tim		ers 87-jo001]

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The word order in example 010d is less significant than the fact that there are two overt nominal arguments (this is very rare for Chukchi, see §19.3).

Example 011a-b comes from an episode of a story where the hero makes a magical helper out of an untreated reindeer hide. He finishes his spell with the words *Hey, work around the house, you are a woman!*

011a	[]	naly-ə-jŋ-ə-n hide-E-AUG-E-3sgABS	ənqen DEM.3sgABS	qut-y⁷i stand.up-TH	ləyen really	
	•••	/at-ə-myo-y?e // xwork-DUR-E-INCH-TH	,			
	The [n	nagical] hide got up	and started s	vorking arou	and the house.	[cy264]

The whole clause in 011a is focussed; this magical event is all so surprising that nothing is treated as a presupposition. A English speaking storyteller would say *the HIDE got UP and started WORKING!* (the capitals indicate the intonation peaks that show focus in English).

The following sentence (011b) also has sentence focus, and for the same reasons.

0116	n-ə-lyi-ypi-l?et-qin	ənqen	j?a-naly-ə-jŋ-ə-n		
	HAB-E-INTS-do.housework-DUR-3sg	DEM.3sgABS	raw-hide-E-AUG-E-3sgABS		
	She worked hard around the h	ouse, that [m	nagical] raw hide!	1	[cy265]

The overt nominal in 011b could be omitted, since is it clearly retrievable, but this would result in predicate focus instead. It is probably present due to the importance of the referent in the discourse and unusualness of having a raw animal hide doing housework. These pragmatic factors suggest that the nominal too is somewhat newsworthy. In both 011a and 011b the noun phrases could have been left out to give sentences would have had predicate focus intead. There would be no loss of (propositional) meaning, but this would result in a dry and matter-of-fact rendition of events².

19.2.4 Spatial and temporal orientation

Words indicating the spatial and temporal c^{*}ientation of clauses are also ordered pragmatically, with more newsworthy elements earlier and less newsworthy elements later.

² The following is an attempt to capture this difference in emotional involvement with an English free translation:

⁽sentence focus, example 011a-b) The man said to the hide, "Hey! Work around the house! You are a woman!". The HIDE got UP and started WORKING. She worked HARD around the house, that RAWHIDE.

⁽predicate focus; 011a-b with overt nominals omitted) The man said to the hide, "Heyl Work around the house! You are a woman!". She got UP and started WORKING. She worked HARD around the house.

	PRAGMATICS OF SENTENCE FORM
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Example 012 shows temporal orientation which is newsworthy by virtue of its importance to the discourse; the adverb layitelenjep very long ago indicates the temporal setting for the facts in all the subsequent discourse.

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012	<u>ləyi-telenjep</u> INTS-long.ago	-	⇔erme-qin ADJ-strong-3sg				
	Long long ago the tribe was strong at first						

Compare non-newsworthy spatial orientation in 013. Filter to this question the other speaker has been describing a stone fortification built on top of a mountain.

013	ətlən	n-ə-req-qinet	<u>ənkə</u> ?	
	INTER	HAB-E-do.what?-?::*	there	
	So wh	at is it they did the	ere?	[kr124]

The location referred to by onko *there* is already established, and thus is non-newsworthy.

Temporal adverbs which advance the flow of the narrative are high in newsworthyness, e.g. luut/luur suddenly in the following:

014 <u>luut</u>=?m waj ŋew?en nemaqej pintaqet-γ?i nemaqej suddenly=EMPH DEICT wife.3sgABS also appear-TH also tatl-epa ŋato-γ?e door-ABL exit-TH

Suddenly the wife also appeared, she also came out from the door [cy/13]

Note that sentence and clause joining elements occur either at the beginning of sentences or at the juncture of clauses. Conjunctions (ank?am and etc.) are most commonly used to introduce new sentences, situating them within the wider discourse, and so more often occur sentence-initially.

Discourse-orienting elements can also occur as sentences on their own, as in the following:

015 jawren-r?o-y?e //

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next.year-INCH-TH

e wane t-a-re-winret-yat=?m / cakayet / man-t?am-rer-y?a-n INTJ INTJ 1sg-E-FUT-help-2sg=EMPH sister.3sgABS 1pl.INT-bone-seek-TH-3sg It was the next year. "Well I'll help you, we'll seek your sister's bones"[jo073-074]

19.3 Overt nominals and zero-pronominals

The basic principles governing the use of free and bound forms to indicate referents have already been established:

- (i) Focussed arguments are indicated by overt nominals (§19.1.1)
- (ii) Topical arguments are indicated solely by the verb's pronominal crossreference affixes (§19.1.2)

These two principles account for the absence of overt nominals, and for the presence of overt nominals in sentence-initial (focussed) position. Principle (i) also

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accounts for non-sentence-initial over nominals where there is sentence focus (§19.2.3). The majority of other instances are accounted for by (iii-iv):

- (iii) Non-core (or syntactically non-obligatory) nominals must be represented by an overt nominal for the simple eason that there is no other way of knowing that they are there;
- (iv) Core arguments which are non-newsworthy (not focussed) can be represented by an overt nominal for the purposes of disambiguation.

These two principles are illustrated in examples 016a-d, extracted from an episode of a story which follows the actions of a boy, who is represented throughout by verbal cross reference only. The sentence preceding 016a is from a distinct episode (this sentence is used as example 009, above).

016a	qelu becaus	q=°m se=EMPH	l?u-ninet see-3sgA.3plO	nenku there	täng-ə-wař stranger-E-tribi				
		mk-ə-jŋ-ə COLL-E-AU		/					
016b	ana so	ənr?aq then	ŋenrilə thither	cejw-e walk-AĐV	ənqen DEM.3sgABS	ott-ə-pojy-ə-qaj wood-E-spear-E-DIM.3sgABS			
	rənr-ə təke-E-3	i-nin IsgA.3sgO	11						
	Because he saw there the stranger-folk, the group of big houses so thus he took that little wooden spear there on foot. [ot063-064]								

Examples 016a-b are sentences which provide background information for the subsequent episode. The neurs tangawarat stranger folk and jaramkajgat group of big houses are not focussed; they are being proposed as the reason for further actions carried out by the boy and as explanations of his destination, which are important to the development of the story. Likewise the NP angen ottapojyagaj that little wooden spear in 016b is mentioned mid-sentence; this magical item is important for the development of the story, and so it must be mentioned that it is present, even though nothing important has been done with it yet.

In Ol6c (see 'ero-pronominal argument of the 3sg verb qəty?i *he/she/it set off* is still 'the back' (see 'the little wooden spear' has not become a topic).

016c	<u> </u>	t•y?i // .o(1-TH								
	He set off to th	nere.				[ot065]				
016d	rəm-nin stick-3sgA.3sgÖ	?əl∙ə∙tkə snow-E•TO		ројү-ә-qaj spear-E-DIM.3sgABS	na-j?o-?a-n INV-approach-TH-3sgO					
-	ənqen / this.3sgABS	-		mk-ə-jŋ-ə-t E-AUG-E-3plABS	•					
	qlawəl-ə-mk-ə-jŋ-ə-t ləyen man-E-COLL-E-AUG-E-3plABS really									
	He stuck his li stranger-peopl	ittle spear i le [i.e. Kory	in the sni vaks], a g	ow, they came up to group of big men.	n him, a group of big	g [ot066]				

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In 016d the noun 'alatkanak into the snow has no possibility of being expressed by verbal cross-reference, since it is not a core argument. The noun pojyaqaj the little spear is made overt for the purposes of disambiguation; it is mentioned again because of its coming importance in the story but still is not a topic. The noun phrase tang'orawetl'amkajgat qlawalamkajgat big Koryak men is like an afterthought, but also disambiguation; it is established that the boy is going to the Koryak camp, but only implied that he arrived. Overt mention of the Koryak men makes it clear that he really has arrived at the Koryak camp.

Very low newsworthyness arguments indicating conceptually unitary events are frequently incorporated (e.g. goranmat- *slaughter reindeer* and tatlannamat *close door*, see example 017d and §12.1).

The following episode (017a-e) illustrates the use of overt nominals for new topics. Sentence 017a introduces a new topic maneytal?at the ritual dancers.

017a	eryat-ə-k dawn-E-SEQ	<u>тәђе-үt-ә-l?-ә-t</u> dance-go.to-E-PCPL-E-ЗрIABS	jet-γ?e-t come-TH-3pl	
	The next day	the ritual dancers came.		[cy392]

In 017b there are three overt nominals. The sentence initial absolutive noun rakwaryajgan the big hole is important information (the protagonist will escape through this magical portal) and a reactivated topic which will occur as verbal cross reference in 017c. The other nominals (nilye with a cord and kamyatte walrus meat parcels) represent non-continuing elements explaining what the hole was like. The agents of the verb (the ritual dancers from 017a) are zero-pronominals:

q		<u>əry-ə-iŋ-ə-n</u> MZR-E-AUG-E-3sgABS	1	<u>nily-e</u> cord-INST	อกิฏิโก๊ thus	ya-nəmyətaw-len PF-close-3sğ	ñ
	qənut	<u>kəmyət-te</u>					
	like	walrus.parcel-3pIABS					
	·						

The big hole they closed up thus with a cord, like a walrus meat parcel. [cy393]

The ritual dancers and the big hole have both already been established as topics, and so in 017c-d, where these are the only verbal arguments, there are no overt nominals.

017c	ecyi when	тәде-ддо-ү ² а-t dance-INCH-TH-3pl	1	ne-n-went-et-y²e-n INV-CS-open-CS-TH-3sgÖ	
	As soor	n as they began rite	ial d	ancing, they opened It [i.e. the hole].	[cy394]
017d		·n-nəm-at-y?a-t CS-close-CS-TH-3pl			
	They cl	losed the door			[cy395]

The additional underlying argument tətl- *door* is only relevant to the story in that it is used to make the room dark (017e); as a non-continuing, non-topical O it is incorporated by the transitive verb.

017e wucq-əm-cəku dark-??-INESS It was dark inside.

[cy396]

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It is uncommon for a transitive verb to have two overt nominal arguments; usually it will have one or no overt nominals. Examples of transitive verbs with two overt nominal arguments usually occur in narrative description and usually correspond to the beginning of an episode. Example 010d is clearly the beginning of an episode, as it is the beginning of a story. Example 018 is at the beginning of an episode in the middle of a text. The translation of the preceding intonation units (ot034-035) is also given.

[ot034-035]:

Those neighbour women said, "Your sister was kidnapped by strangers". "Oh! Could they be telling the truth?', he was really worried. He grew up.

[ot036]:

018	ətləy-e father-ERG	tejk-ə-nin make-E-3sgA.3sgÖ	əngin thus	wa·l?·ə·n be·NMZR·E-ABS.SG	ott-ə-pojy-ə-qaj wood-E-spear-E-DIM					
	ləyen <i>i</i> really	/ w ² are-ytə fork-ALL	naqam but		·					
	[His] father had made a wooden spear, like this, simply [coming] to a fork. [ot088-									

Sometimes it seems that the appropriate amount of disambiguation is quite low. The storyteller may use the verb's bound pronominals as the sole means of reference to an argument in a context where this is ambiguous. In such situations listeners simply disambiguate by questioning. The following exchange is typical:

019a		taŋ-qonpə ye NTS-always PF-	-			
		kwajo ?inə :k.3sgABS wolf.3s	// sgABS			
	STORYTELLE	ER — Yes, and t	he wolf and th	e duck befi	rlended each other i	forever. [jo124]
019Ъ	amən! // INTJ					
	LISTENER 1	— Gosh!				(jo125)
019c	•	vət ir-ə-l ^ə mediately "oump"-		•	n-ine-nli-qin HAB-INV-turn.around-3sg	// 0
	STORYTELLE	ER — If the hero	l took off, he tu	irned it bai	ck.	(jo126)
019d	jokwa-ta? duck-ERG	//				
	LISTENER 2	— The duck?				[jo127]
019e	ii jokwa yes duck-EF	a-ta // RG				
	STORYTELLE	ER — Yes, the di	uck.			[jo128]

However, questions from the audience do not necessarily imply that they do not understand what's going on-the Chukchi politeness convention for listening to

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stories demands frequent verbal responses from the listeners, and it may be preferable to unnecessarily seek information than to seem uninvolved and uninterested in a story.

Quoted speech tends to have more overt nominals than non-quoted narrative; see §19.4.

19.3.1 Overt Pronouns

Personal pronouns are subject to slightly different pragmatic effects to other nominals. While the unmarked way of indicating pronominal reference in a clause is using the pronominal cross-reference affixes on verbs only, and personal pronouns in their free, nominal form have a special pragmatic prominance, the only pragmatic status indicated by free personal pronouns in core syntactic roles is contrastive focus, as shown in examples 020 and 021 (see also §7.2):

020	ii	1	ənqen	<u>ənan</u>	pətqə	taŋəm	ləye	
	yes		3sgABS	3sgERG	more.ADV	INTS	know.VBase	
	Yes,	she	knows ev	en tilen. J	:: 🖓 n me)			[kr092]

The following fragment of quantum prechables is uttered in a folktale when a group of travellers discover an encample with in which everybody except one boy has been murdered. The boy has just explained that they were all killed by a spirit. He had heard it approaching, and had warned his fellows to be quiet, but they ignored him. The travellers don't believe the boy, and cry:

021	yənan 2sg.ERG	təm-ə -tko-nat! kill-E-ITER-3plO	qərəm NEG.FUT	kelə spirit.3sgABS	n-ə-jet-ə-n! 3sğ.INT-E-come-E-3sğ	
	" <u>You</u> kil	led them! No spir	rit camel"			[ke057]

The form of the verb already indicates a 2sgA; the full pronoun has a contrastive pragmatic function.

The other pragmatic function of free nominals is to indicate a new or reactivated topic or important information. This function cannot be conveyed by a free personal pronoun, since pronouns only indicate cross-reference to an already established referent, and these pragmatic functions are used to introduce (or reintroduce) referents which are either hitherto unknown or otherwise non-retrievable from context.

In many non-verbal constructions there is no other way of showing reference than by using overt nominals. In the following example a passive participle rəmajŋawjo brought up has an instrumental pronoun indicating the agents of the underlying transitive verb stem.

Cha	pter 19	PRAGMATICS OF SENTENCE FORM								
022	wanewan NEG.NFUT	rə-majŋ-aw-jo CS-big-CS-PASS.PC	PL.3sgABS	cit first	<u>əccənan</u> 3pl.INST	1	nemaqej also	1		
	macaw∙ma ſight-SIM	a-tl?a-ka NEG-molher-NEG	n?el-y?i become-Th		·					
		s] brought up by i during a war	them to be	gin w	ith also, s	he'd	become	[kr154]		

19.3.2 Discontinuous nominals

Occasionally a phrasal nominal straddles the verb. These discontinuous nominal phrases only occur in S and O functions (see examples 023 and 024), but it is not clear that they truly represent discontinuous constituents (i.e. whether they are discontinuous noun phrases rather than repeated coreferent nominals). The preverbal part of the nominal is usually a pronominal representing something highly discourse salient which has previously been in the background of the discourse, and the postverbal part of the nominal is simply a reminder of what should be considered shared knowledge or an afterthought:

SVS word order

023		<u>'m</u> I.3sgABS=EMP o <i>ther also w</i>		ra-ytə- house-go home, ta	.to-TH	/	<u>ənqen</u> DEM.3sgABS	<u>ningej</u> boy.3sgABS	[ot120]
OVC 024) word eë INJJ	qərəin NEG.FUT	1	?etki bad	waj DEICT	_	<u>nenin</u> omeone.ABS	jəto-y?a-n bear-TH-3sgO	<u>qol</u> one.ABS
	<u>cakay</u> sister.A Oh n	BS 1sg-PC	SS.	BsgABS bore son	neone el	lse,	a sister for	me	[ot025]

The preverbal part of the nominal is usually a quantifier or demonstrative, with the usual discourse functions of a sentence initial nominal; in 023 it has contrastive function, reactivating a previous topic, and in 024 it represents highly important information (the boy's realisation that he had a sister who had been kidnapped long ago, the emotional crux of the story). The identity of the pronouns in both these examples is probably retrievable/shared knowledge, but their relative importance is such that the storyteller has repeated it; as non-newsworthy background information it is ordered at the end of the sentence.

A false start may result in a discontinuous series of coreferent nominals. This is apparently the case in example 025 (note also all the hesitations):

025	<u>tan-əməl?o</u> EMPH-all.3sgABS	ləyen / really	amŋər?oot-qora-ta eight-reindeer-ERG	1
	taŋ-əməl?-etə EMPH-all-ADV	jaale-ytə back-ALL	/ ye-n-ekwet-ew-lin PF-CS-go.back-TH-3sg	ŋalwəl?-ə-jŋ-ə-n herd-E-AUG-E-3sgABS
	They [were] all herd.	simply the	eight reindeer comple	etely turned back the big

[ot098]

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19.4 Quoted speech

A folktale narrative is not centrally concerned with the narrator and audience; in folktales most instances of first and second person reference are in the context of quoted speech, i.e. they refer to fictional speech-act participants. The real speech act participants make an appearance only in asides. In a personal reminiscence there is more reason for reference to first person arguments, since the subject matter is concerned with the speaker's experiences. However, as will be shown, the presence of the speaker is not usually reflected in personal reminiscences by free pronouns. It is likely that the reason for this is the same as the reason for the paucity of free pronouns in face-to-face conversation - the physical presence of the person and the pronominal cross-reference of the verb is enough redundancy without needing free pronouns as well.

The discourse function of quoted speech disrupts the usual rules of narrative structure. In a basic narrative, in which a speaker imparts information to a listener, there is an assumption of a certain relationship of shared/presupposed information versus unpredictable knowledge between the speech act participants. With quoted speech there is a further layer of meta-discourse in which a fictional speaker is communicating with a fictional listener. This stylistic device provokes a number of discourse features different from usual narrative; in particular, ellipsis in quoted speech is much rarer. When quoting an imaginary conversation it is more often necessary to establish referents overtly, since the imaginary discourse context does not make clear which referents are retrievable. Because of the lower contextual involvement that the listener has in a imaginary discouse the presuppositions reasonable to assume of the real speech act participant can conflict with those of the imaginary speech act participant.

19.5 Two episodes

The following two episodes are selected as illustrative material because they deal with the same sequence of events from two versions of the same story. The story follows the adventures of an orphaned boy who rescues his kidnapped sister and takes revenge on her kidnappers. This episode is an emotional high point of the story; it contains the first contact between the boy and his sister since his babyhood. The sister is in the house with her father-in-law, and the boy calls her forth by making a distinctive bird call that contains his sister's name (Jare).

SAMPLE 1-Ottapojyagaj3

026a ənpənacy-ə-qaj kətləyi jara-k qol n-ə-twa-qen old.man-E-DIM.3sgABS it.happened one.3sgABS house-LOC HAB-E-be-3sg It turned out there was an old man [who] was in the house. [ot127] The overt noun anpanacyagaj old man in 026a is focussed because it is new information and a new topic (further specified/discussed in 026b-c).

026b	Jare-n Jare-POSS	uweqəc-in husband-POS	•	
	Jare's husb	and's father.		[ot128]
026c	waj / DEICT		ənqen? that.3sgABS	
	Now what	was he calle	dj?	[ot129]

In sentence 026d the previous topic is abandoned, and the topic (indicated solely by verbal cross-reference) reverts to the main topic of the story, the boy. The oblique nominals ?iyanelyacaku inside the wolf skin and omkacakoyta into the middle of the bushes provide the spatial orientation of the events (the jare u:u:uk interjections are made to sound like the cry of an animal).

026d	•	ıelγ-ə-cəku kin-E-INESS	ŋ²el-ү²i become-TH	neme again	•	ot-y?i t.olf-TH		k-ə-cəko-y E-INESS-AL		
	yaanre thither	/ ango therice	-	ine-qin :ry-3sg	1	n-iw-q HAB-say		"j aré INTJ	u:u:uk INTJ	1
	jare INTJ	u:u:nk" INTJ		•			•			
	He clim	bed Inside ti	he wolf skir	n, again .	set a	off. Into i	the bu	shes thit.	her. from	

there he cried out, he said "jare u-u-k jare u-u-k" [ot130]

In 026e the subject of the intransitive verb niwqin he says is given, along with repitition of the verb, as a disambiguation. In the quoted speech the personal name of the addressee is used to make clear who the speech act participants are supposed to be.

026e	n-iw-qin	ənpənacy-ə-n	in-iw-qin	"okkoj!	Jare		
	HAB-say-3sg	old.man-E-3sgABS	HAB-say-3sg	INTJ	personal.name.3sgABS		
	r?enut	²ejŋe-rkən?!	ənqen	etaanə	palqat-ә-ŋŋo-ү?e?"		
	what?.3sgABS	cry-PROG	DEM.3sgABS	probably	die-E-INCH-TH		
	He said, the old man said "Oh! Jare, what's crying out?! Probably something has started starving" [ot13]						

Sentence 026f is also quoted speech, the response to that in 026e. The identity of the speaker is apparently clear enough from context.

026f	"ee	waj	yəməy-nute-kin	jokwa-qaj	etaanə"
	INTJ	DEICT	1sg-land-REL.3sgABS	eider.duck-DIM	probably

"Oh, it's probably a little eider duck from my [home]land" [she said] lot1321

The storyteller begins 026g assuming that the person just quoted is topical, and the actions described will be understood to be by her. However, the identity of the topic is reiterated sentence-finally in case disambiguation is necessary.

³ The storyteller is an elderly woman; the audience consists of two adult native speakers who she has been telling stories to since childhood and me. The story is new to one of the native speaker listeners.

<u>358.</u>	PRAGMATICS OF SENTENCE FORM	Chapter 19
026g	anə waj ləyen qənwer omk-ə-cəko-ytə ekwet-y²i so DEICT really finally bush-E-INESS-ALL go-TH	
	tiwəcy-ə-qej n-ine-nr-ə-qin ənqen Jare-na snow.beater-DIM.3sgABS HAB-TR-hold-E-3sgO that.3sgABS Jare-ERG	
	Well then, simply, finally she went into the bushes holding a little sn that Jare.	ow-beater, [ot133]
excla	entence 026h the topic again switches back to 'the boy'. In the amation the fact that the boy is speaking, not the sister, is made	-
appa 026h	arent by the use of the (lexical) vocative cakej! <i>O sister!</i> . "waj cakej! notgena-jyəm! ənne ena-j?o-ka hey sister! here-1sg.ABS NEG.HORT AP-approach-NEG	
	q-ə-ra-yt-ə-y?e! INT-E-home-go.to-E-TH	
	"Hey sister! I'm here! Don't approach, go home!" [said the disguised y brother]	ounger (ot134)
	PLE 2—Jokwajo ⁴	ee e16
	version of the story has the boy shape-shifting into a duck as well lies to the Koryak encampment.	as a woll.
027a	•	
	STORYTELLER — And there he landed.	[jo077]
027Ъ	yəty-ə-k? lake-E-LOC	
	LISTENER — On the lake?	[jo078]
Sent	елсеs 027с-d have zero-place intransitive verbs.	
027c	ej ewən ləyen ye-nki-r ² u-lin yes INTS really PF-night-iNCH-3sg	
027d	STORYTELLER — Yes. And it had just become dark. yənməjep y-ajwecy-ə-r?o-len	[jo079]
	some.time.ago PF-evening-E-INCH-3sg Evening was some time ago.	[]0080]
In 02	27e the sister appears 'in person' in the discourse for the first time.	•••
027e	ənqen≕?m Jareŋŋə cakəyet DEICT.3sgABS=EMPH personal.name.3sgABS sister.3sgABS	
	There was that sister - Jareyyə	(jo081)
027f	elamye? futher?	

⁴ The storyteller and the audience (apart from me) are elderly contemporaries taking turns telling stories. This story is apparently familiar to all of them. Note that in this version of the story the sister has a slightly different name than in the previous (Jarenna, not Jare)

Chapter 19	PRACMATICS OF SENTENCE FORM	359
like in sentence 026 throughout, or it i	umes that the topic is still the boy/duck. This od in the other version of this story, the boy is may be that the audience interaction in (up, since the details are familiar.	the assumed topic
027g jare jare	yu:u:uki /	
INTJ INTJ elk-ənpənacy-:	INTJ ə-qaj ləyen teŋ-ilk-ə-l?-ə-n	
blind-old.man-E-DIN	M.3sgABS really INTS-blind-E-NMZR-E-3sgABS	
STORYTELLER man, complete	— "Jare-jare γu-u-uk!" [cried the duck]. There ly blind.	e was a blind old [jo083]
is the main topic, a possible topics. Sen identity is suggester pragmatically 'the b	plABS orphan-DIM-3plABS land-LOC HAB-TR-leave- r?a-yatle ?ajŋa-ŋŋo-?e?	lso established as lind old man. His evious clause, but speaker's identity what he actually tore:e?
	hans have you left in the tundra? What kind o	f bird is that [jo084]
027i olomej! INTJ		
LISTENER - N	ly goodness!	(jo085)
followed by a pause comfortable not over the identity of the s getting difficult to tr	kəyet <i>that sister</i> in 027j has an ellipsed v e and then a quote of what she said. The s rtly specifying many of the speakers in his d speaker is perhaps given for disambiguation, rack the three participants.	peaker has been irect quotes; here since it could be
027j anə ənqen so DEM.3sg Jareŋŋa-jyəm personal.name-1sgA	gABS=EMPH sister.3sgABS 1sgABS=EMPH Di nutlu-nute-k t-ə-n?el-ə-k	an EICT

my land (027k) have incorporated rather than phrasal modifiers since they are not the heads of NPs (the former because it in non-absolutive, and the latter because the complex nominal is itself a modifier within an NP).

360.		PRACMATICS OF SENTENCE FORM					Chapter 19
027k	and	yəmn-ine-t 1sg-POSS-3plABS	ewən INTS	γəməy-nut Isg-land-REL:		yalya-t bird-3plABS	
	÷	n-?ejŋe-qinet HAB-cry-3əl					
		and birds from n	ny home	land cry like	that"		[Jo087]
0271	ləyen really	?omr-ə-təŋew-a strong-E-send.off-VBase		e-ly-ə-qin TR-AUX-E-3sg	əlleği younger	.brother.3sgABS	5
	She firml	y [sent off?] the littl	e brothe	er.		-	[jo088]
027m) ənqeri DEM.3sgA	"yəm≃?m NBS 1sgABS=EMPH	ijan DEICT	Jarenija-jya			
	•	ne, Jarezyz		•	•		[Jo08£]

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Appendix: Text

The following story was told by 'Ejgewgewat, an elderly Telqep Chukchi woman of Tawajwaam village, in October 1995. She learnt the story in her childhood from her own grandmother.

001	cawcəwa-t=?m ewət ŋ²oc²-ə-qay-te enaral?-ə-t rich.herder-3pIABS=EMPH likewise poor-E-DIM-3pIABS neighbour-E-3pIABS [There were] rich and poor neighbours,	[ot001]
002	cakəyet=?m ətlenju-qej n-ə-ppəlu-qin sister=EMPH younger.brother-DIM.3sgABS ADJ-E-small-3sg	,
	[There was] a sister and a small younger brother.	[ot002]
003	haqam g?oc?-ə-qay-te əhpənacy-ə-qay-te ətl?a-t but poor-E-DIM-3pIABS old.man-E-DIM-3pIABS mother-3pIABS	
	But the old people were poor, the parents.	[ot003]
004	ye-r?e-lin y-uŋet-liñ əñqen cal.əyet PF-do.something-3sg PF-collect.firewood-3sg DEM.3sg girl.3sgABS ənpənacyə-qaj-ə-ry-en / mik-ə-n-ti ətlon? old.man-DIM-E-PL-POSS.3sg who?-E-TH-3pIABS INTER	
	The sister was doing something, going for firewood; the old people's [aside] What were they called?	(girl). [ot004]
00ia	cawcəwa-ken ewət enaral?-ə-t ninqey-ti / rich.herder-REL.3sgABS so neighbour-E-3pIABS child-3pIABS	
	n-ə-twa-qenat əmə HAB-E-be-3pl also	
	The rich herder-neighbours had children too.	[ot004a]
005	jewəcqet y-uŋet-lin / איז איז איז איז איז איז איז איז איז איז	
	req-e ye-piri-lin tang-e qənut INDEF.PRON-ERG PF-take-3sg stranger-ERG like	
	waj-əŋqena-t Wareeŋ-ə-I?-ə-t DEICT-DEM-3piABS place.name-E-NMZR-E-3piABS	
	The girl was going for firewood, and there she was kidnapped ('take someone, evil-doers, by strangers/enemies, like those who live in Vae	n') by gi. [ot005]

362.	APPENDIX			Text Ottəpojyəqaj
	ənqen-ə-cək remk-e ye-piri-lin / uŋet-l?-ə-n that-E-ANpl.ERG tolk-ERG PF-take-3sgO collect.firewood-NMZR-E-3sgJ ya-n-ra-yt-at-len PF-CS-house-go.to-CS-3sgO		016	INTJ DEICT truly one.3sgABS someone.3sgABS PF-give.birth.to-3sg "wanewan ujne NEG.NFUT NEG.EXI
	Those folk kidnapped the firewood-collector and took her home. enmen ənqen Jare / ənpənacy-ə-qaj-ə-ry-en	<i>[ot006]</i> ŋeekək		"Is that really true, you bore noone else?". "No, there's noone [0
	anyway this.3sgABS Jare.3sgABS old.person-E-DIM-E-3pl-POSS.3sgABS Anyway, this was Jare, the old people's daughter.	daughter [ot007]	017	amənan ye-w ² l-lin ənqen cakəyet yən-in" only PERF-dig-3:g that.3:gABS sister.3:sgABS 2:sg-POSS.3:sgABS Only one that died, that sister of yours".
	ya-jalyət-lenat ənp-ə-ŋew-qey-ti ənpənacy-ə-qay-te әтә PF-nomadize-3plS old-E-woman-DiM-3plABS old.man-E-DIM-3plABS too ŋinqej-qej		018	n-ine-temjuŋ-qin ənqen ŋinqej-qej HAB-INV-lie.to-3sg DEM.3sgABS boy-DIM.3sgABS
	boy-DIM.3sgABS			She is lying to that boy. [c
09	The old women, the old men and the little boy continued nomadizing rewiw-kə≃?m / eryat-ə•k ŋinqej-qej ənqen make.camp-SEQ=EMPH dawn-E-SEQ boy-DIM.3sgABS DEM.3sgABS	z. [ot008]	019	n-iw-qin "wəne wanewan! qərəm waj! cakəyet HAB-say-3sg INTJ NEG.NFUT NEG.FUT DEICT sister.3sgA&S yəmn-in ?emi=tlon?" 1sg-POSS.3sgABS where?=INTER
	enaral?-ə-ŋawəcqat-etə / n-ə-lewlicet-qin n-ə-r?e-qin neighbour-E-girl-ALL HAB-E-lease-3sg HAB-E-do.somethinğ-3:	sá		
	The next day after they made camp that little boy teased one of the neighbouring girls, did something or other.	[ot009]	020	Fie said, "Oh no! No! Where is my sister?". [o ana qonpa nota-jpa n-a-lejw-a-qeet-qin anqen ninqej-qej so always land-ABL HAB-E-wañder-E-DIM-3sg that.3sgABS boy-DIM.3sgA
	enarál?-ə-ŋawəcqat-a iw-nin "ilu-ke q-ə-twa-qaat-ə-r neighbour-E-woman-ERG say-3sgA.3sgÖ shake-NEG INT-E-be-DIM-E-PRÖ			qənwet ləyen mejnet-y?i finally really be.big-TH
		jan DEICT	0.51	Well that little boy was always roaming the land, finally he grew up. [o
	tang-a ne-piri-?e-n" stranger-ERG SA-take-TH-3sgO		021	ətləy-ə-n iv-nin / "atej! yəmn-in father-E-ABS səy-3sgA.3sgO Dad.VOC! 1sg-POSS.3sgABS
	The neighbour girl said to him, "Don't do it you little so-and-so; you' who the strangers kidnapped!".	ve a sister [ot010]		pojy-ə-qaj q-ə-tejk-ə-y-ə-n" spear-E-DIM.3sgABS INT-E-make-E-TH-E-3sgO He said to his father, "Daddy! Make mc a little spear". [o
	ra-yt-ə-y?e ye-pənnew-lin		022	"eej"
	house-go.to-TH PF-be.despondent-3sg	6+011Ì		yes
	He went home, he had become despondent	[ot01!]		"Yes". [0
12	"əmmemeji" mummiyi	[ot012]	023	"anə e-lejw-ə-tku-1?et-ke" ətl?a-ta n-in-iw-qin so NEG-roam-E-ITER-DUR-NEG mother-ERG HAB-TR-say-3sg
13	<i>"Mummy!"</i> "aa?" INTJ	[0(012]		"ana e-lejw-a-tku-l?et-ke:: so NEG-roam-E-ITER-DUR-NEG
	"Hm?	[ot013]		"Don't wander off all the time", his mother said to him, "Don't wander off [0]
14	"yəmo amənan yənan ena-yto-y?e?" 1sgABS only 2sgERG INV-pull.out-TH		024	ənqen tang-a ne-re-piri-yət neməqej" this stranger-ERG INV-FUT-take-2sgO also
	"Did you bear only me?" [i.e. "Am I your only child?"]	[ot014]		Those enemies will kidnap you too". [ot
15	"ii ləyen taŋ-amyənan" yes really INTJ-only.2sg		025	"ee qərəm / ?etki waj meŋin jəto-γ?a-n qol INTJ NEG.FUT bad DEICT someone.3sgABS bear-PF-3sg one.3sgAB
	"Yes, you're the only one".	[ot015]		zakəyet yəmn-in" sister.3sgABS 1sg-POSS.3sgABS

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364.	APPENDIX	
26	qənwet ko:l:o anə ŋinqej ənqen finally INTJ so boy.3sgABS DEM.3sgABS	
	lejw-ə-l?et-ə-rkən tağ-qonpə ləyen walk-E-DUR-E-PROG INTS-always really	
	Finally, ooh! but that boy is always wandering.	[ot026]
027	qənwer [→] inə piri-nin finally wolf.3sgABS take-3sgA.3sgO	
	Finally, he caught a wolf.	[ot027]
028	təm-nen ləyen / ənkə taŋ-am-[ŋötgen] təm-nen kill-3sgA.3sgÖ really there EMPH-REST-[that] kill-3sgA.3sgÖ f fa hilling i a sigli a alagan (2) ha hilling i a	[ot028]
029	He killed it, right there [?], he killed it. r-ə-ra-yt-an-nen ?inə CS-E-house-go.to-CS-3sgA.3sgO wolf.3sgABS	[01020]
	He brought the wolf home.	[ot029]
030	iw-nin ətla "əmmemej! say-3sgA.3sgO mother.3sgABS mummy	
	He said to his mother "Mummy!	[ot030]
)31	taŋ-əməl?-etə q-ə-nwenŋ-ə-y-ə-n ənqen / wey-ə-t EMPH-all-ADV INT-E-skin-E-TH-E-3sgO DEM claw-E-PL	
	ənkə q-ə-nt-ə-y-ə-net gely-ə-k" DEM IMP-E-AUX-E-TH-E-3plO hide-E-LOC	
	Skin/butcher this all, but leave the claws attached to the hide".	[ot031]
032	janqen neme ekwet-y?i ləyen n-ə-lejw-ə-l?et-qin me there.3sgABS again set.olf-TH really HAB-E-walk-E-DUR-3sg why?	
	Once again he went off there, wandered off for some reason.	[ot032]
033	miŋkə tanŋ-ə-t n-ə-twa-qenat n-iw-qin somewhere stranger-E-3plABS HAB-E-be-3plS HAB-say-3sgS "jurcq m-ə-l?u-?e-n miŋkə" maybe 1sgA.INT-E-see-TH-3sgO somewhere [He went off to] Where the strangers lived, he said, "Maybe I'll find here	
	somewhere".	[ot033]
034	njewəcqet-ti waj enaral?-ə-t n-iw-qine-t "yən-in woman-PL DEM neighbour-E-PL HAB-say-3pl 2sg-POSS.3sgABS	
	cakəyet tanıy-a ye-piri-lin" sister.ABS stranger-ERG PF-take-3sg Those neighbour women say, "Your sister was kidnapped by strangers	= lot034
035	kə:kel ipe ?ən-iw-?e-n ənŋatal wec-ə-r?ō-yəry-ə-jŋ-ə-n	
	INTJ truly NE.INT-say-TH-3sgO after.all worry-E-COLL-NMZR-E-AUG-I / qənwer mejnet-y?i	
	after.all become.big-1H	-الحديد مغر
	Ohl Could they be telling the truth? - after all he had grown up, he w	as really ot035]

	TEXT Ottəpojyəqaj	365.
036	ətləy-e tejk-ə-nin ənŋin wa-1?-ə-n ott-ə-pojy-ə-qa fati:er-ERG make-E-3sgA.3sgO thus be-NMZR-E-ABS.SG wood-E-spear-E-DI ləyen / w?are-ytə naqam really fork-ALL but	-
	[His] father had made a wooden spear, like this, simply [coming] to a to	ork. [ot036]
037	pojy-ott-ə-ly-ə-qaj ləyen n-ə-ciwm-ə-qine-qej spear-wood-E-END-E-DIM.3sgABS really ADJ-E-short-Cisg-DIM	
038	The spearshaft was really a short little one. ŋaryən [?] əlm-ə-tkən-ə-k rəm-nen ənkə outside heaped.snow-E-TOP-E-LOC stick-3sgA.3sgO there	[ot037]
039	Outside he stuck it into the top of some heaped snow.n-ilu-l?et-qinloŋ-kətəjyat-ə-l?-ə-nləyenpojy-ə-qajHAB-shake-INTENS-3sgNEG.wind.blow-E-NMZR-E-3sgABSréallyspear-E-DIM.3sn-ə-req-ə-l?et-qin#HAB-E-do.something-E-INTS-3sg#	<i>[ot038]</i> gABS
040	It was shaking, there was no wind but the little spear was doing this. neme pakir-y?i again approach-TH	[ot039]
041	Again he approached. "anou "jinqej!" / ətl?a-ta n-in-iw-qin "anou "jinqej! INTJ boy3sgABS mother-ERG HAB-TR-säy-3sğ INTJ boy.3sgAB q-ə-paa-γe lejw-ə-l?et-ə-k! " INT-E-finish-TH wander-E-DUR-E-INF	<i>[ot040]</i> S
042	"Hey boy!", mother says to him, "Hey boy, stop wandering!." ammemejl ?emi yely-a-n? Mummy.VOC! where hide-E-3sgABS	[ot041]
043	"Mummy, where's the hide?". waj-ənqen waj DEICT-DEM.3sgABS DEICT	[ot042]
044	"Here [there] it is." "iyət ənge ekwet-ke now NEG.HCRT go.out-NEG	[ot043]
D45	"Now don't go out." qərəm m-ekwet-y'e-k t-ə-re-jəlqet-y'i	[ot044]
046	NEG.FUT 1sg.INT-go.out-TH-1sg 1sg-E-FUT-sleep-TH "I'm not going out, I'm going to sleep." layen jalget-y?e-t. atl?a-t	[ot045]
	really sleep-TH-3pl mother-3, ශ්රීම්ප්	[ot045]
047	ənr ² aq ² iy-nely-ə-n jəm-nen / ŋanqen ŋan ekwet then woll-hide-E-3sgABS don-3sgA.3sgD yonder DEICT set.off-Ti	y ⁷ i

56. APPENDIX	TEXT Ottapojyaqaj 367.
18 ana yenku tany-en yalwəl?-ə-jy-ə-n naqam so there stranger-POSS.3sg herd-E-AUG-E-3sgABS and jara-mk-ə-jy-ə-n kol:o jara-j::>-t house-COLL-E-AUG-E-3sgABS INTS house-AUG-E-3pIABS	057 ləyen kəjaw-ə-myo-y?a-t əti?a-t ra-yt-ə-y?e / really wake.up-E-INCH-TH-3pl parent-3pIABS house-go.to-E-TH ?iy-ə-ŋely-ə-n jən-nen wenw-atc?at-y?e wolf-E-hide-E-3sgABS take.olf-3sgA.3sgO secretly-go.to.bed-TH
And there is the strangers' big herd, and a group of big houses, very big houses. [ot048]	When the parents were starting to wake up he went home, took off the wolf skin, secretly went to bed. [ot057]
9 Jəy-?orawetl?a-tanŋ-ə-t qərəmena-t əruci-l?-ə-t AUTH-person-stranger-E-3pIABS NEG.ID-3pIABS Russian-NMZR-E-3pIABS	058 caj-o-ŋŋo-k ne-nəyjew-?e-n mal-?ataw tea-CONSUME-INCH-SEQ INV-wake-TH-3sgO APPR-it.happens
[They were] ordinary stranger people [i.e. Koryaks] , not Russians. [ot049]	iyət-qej atc?at-y?e now-DIM.3sgABS sleep-TH
i0 ənqena-t raj Wareen-tann-ə-naw-ə-t DEM-3pl.ABS DEICT place.name-stranger-E-female-E-3plABS	After starting to drink tea they woke him, several times, he'd only just gone to sleep. [ot058]
l: γen teŋ-?etki-jŋ-ə-t really INTS-bad-AUG-E-3pIABS Those there stranger women from Vaegi are very, very bad. [ot050]	059 "okkoj! eme megqorə ye-jët-qeet-iyət?" INTJ again whence PF-come-DIM-2sg
il Jare cakayet≓²m ñeñku y-²eliket-lin	"Oh! Where have you come from this time?" [ot059]
personal.name.3sgABS sister.3sgABS=EMPH there PF-matry-3sg Jare, the sister, had got married there. [ot051]	060 "wanewan miŋkəri m-ə-lqət-ə-k ŋutku n-ə-jəlqet-iyəm" NEG.NFUT anywhere 1sg.lNT-E-set.off-E-1sg here HAB-E-sleep-1sg
2 yelwəl kəceciw-ə-nin ləyen ten-ləmənkəri yanqen herd.3sgABS föllow-E-3sgA.3sgÖ really INTS-around.about DEM.3sgABS	"No, İ didn't go anywhere, I was here sleeping." [ot060] 061 neme ənŋin ?əloŋet-y?e jara-k [?] n-uurkilet-qin
ŋan 11-ə-İyi-İqeynew-qin ?iy-ə-qej ənqen ?orawetl?a-n DEICT HAB-E-INTS-shoot-3sğ wólf-Ē-DIM.3sgABS DEM.3sgABS person-3sgABS	again thus spend.day-TH house-LOC HAB-collect.firewood-3sg n-orw-a-tko-1?at-gen n-on-ott-a-zi-natw-ew-a-genat
He simply followed the herd, from all sides far off, they shot at that little wolf, that [one who was actually a] person. [ot052]	HAB-slèd-E-USE-DUR-3sg HAB-TR=wood-E-CS-cairy.home-TH-E-3pl ət1?a-qay-te ənpənacy-ə-qay-te mother-DIM-3pIABS old.man-E-DIM-3pIABS
53-054 and gelwal n-ine-rkačečiw-a-qin qut-ti so herd.3sgABS HAB-TR-chase-E-3sg other-3pIABS	Again he spent such a day at home, collecting firewood, sledding, carrying the firewood in for his dear elderly parents. [ot061]
n-ine-piri-cqəcet-qinet ?əl?əl-ə-k n-ine-np-ə-qinet ?əl?əl-ə-k HAB-TR-take-PUNCT-3pl snow-E-LOC HAB-TR-knock-E-3pl snow-E-LOC	062 neme ləyen wulqətwik neme ləyen atc²at-y²a-t ətl?a-t
rənn-ə-t ənkə ləyen n-ə-kamayra-r ^ə o-qenat hom-E-3pIABS ühere realiy HAB-E-strüggled-COLL-3pi	also really become.evening again really go.to.bed-TH-3pl mother-3plABS ewat attion nemagej ewat atc?at-y?e
Well he chased the herd, quickly took some, knocked [their] horns down onto the snow, there they simply struggled/kicked. [ot053-54]	likewise 3sgABS also likewise go.to.bed-TH Again evening fell, again his parents went to bed, and he too went to bed.
55 anə n-ə-rkəceciw-ə-qin n-ə-rkəceciw-qin ujne ləyen cam?am	[ot762]
well HAB-E-chase-E-3sg HAB-E-chase-3sg NEG.EXI really unable.MOD Well he chased and chased, but they simply couldn't manage [to catch him].	063 qeluq=?m 1?u-ninet ŋenku tanŋ-ə-warat because=EMPH see-3sgA.3plO there stranger-E-tribe.3sgABS
i6 "okkoj mejl / ləyi-req-?inə ənŋatāl tāŋ-wen?əm	jara-mk-ə-jŋ-ə-t house-COLL-E-AUG-E-3piABS
EXCL EXCL INTS-what?-wolf of.course INTS-INTS	Because he saw there the stranger-folk, the group of big houses. [ot063]
ənan a-alom-kə-l?-en naqam rəpətkew-kə" FUT NEG-listen-NEG-NMZR-3sgABS but hit.target-INF	064 and anrag genrile cejw-e engen so then thither walk-ADV DEM.3sgABS
"Oh, what kind of wolf is this? It's too much! But what a disobedient [lit. not- listening] target!" [ot056]	ott-ə-pojy-ə-qaj rənr-ə-nin wood-E-spear-E-DIM.3sgABS take-E-3sgA.3sgO
	So then he took the wooden spear (while) walking there. [ot064] 065 genrila qət-y ² i
	thither set.off-TH
	He set off to there. [ot065]

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<u>58.</u>	APPENDIX	
6	rəm-nin ?əl-ə-tkən-ə-k pojy-ə-qaj na-j?o-?a-n stick-3sgÅ.3sgO snow-E-TOP-E-LOC spear-E-DIM.3sgABS INV-approach-TH-3sgO ənqen / tang-?orawetl?a-mk-ə-jŋ-ə-t this.3sgABS stranger-person-COLL-E-AUG-E-3pIABS qlawəl-ə-mk-ə-jŋ-ə-t ;əyen man-E-COLL-E-AUG-E-3pIABS really	
	He stuck his little spear in the snow, they came up to him, a group of bi stranger-people [i.e. Koryaks], a group of big men.	lg [ot066]
067	"olo kolo mejl n-ə-req-iyət ətlon?" INTJ INTS INTJ HAB-E-do.what?-2sg EMPH	1 0691
068	"Oh-ho! What are you doing?" "yəmn•in cakəyet Jare n•ena-j?o-jyəm"	[ot067]
	1sg-POSS.3sgABS sister.3sgABS personal.name.3sgABS HAB-TH-go.for-1sg "I've come for my sister Jare."	[ot068]
069	"eej!" yes <i>"Yes. "</i>	[ot069]
070	"n-ena-yt-eyəm waj t-ə-ra-n-ra-yt-an-ŋ-ə-n" HAB-TR-go.to-1sğ DEICT 1sg-E-FUT-CS-house-go.to-CS-TH-E-3sg	[ot070]
071	"Î've come for her and Î'll take her home." ee qərəm wətku / ra-lw-ə-tko-y?a pöjyl?at-ə-k INTJ NEG.FUT only.then FUT-defeat-E-INV-TH spear.duel-E-INF	[01070]
	wətku ənkə ra-ri-ra-yt-an-ŋ-ə-n only.then here FUT-CS-house-go.to-CS-TH-E-3sgÖ	
072	"No, only once you defeat us in spear duelling, only then will you take home." "ana layen man-pojyal?an-mak nekem	her [ot071]
	so really 1pl.!NT-spear.duel-1pl same.time Iuut q-ena-nm-a-tak" suddenly INT-INV-kill-E-2pl	
	"Well then, let's fight, you can all kill me at the same time".	[ot072]
073	anə əngen pojyəl?at-y?a-t ən-in pöjy-ə-qaj sö DEM.3sgABS spear.duel-TH-3pl 3sg-POSS.3sgABS spear-E-DIM.3sgABS ləyen utt-ə-qej	
	really wood-E-DIM.3sgABS So they started spear fighting, his little spear was simply a little stick.	[ot073]
074	camalayencamqakn-ine-pipk-a-lwi-qinetpojy-a-qa-aandreallyotherHAB-TR-ankle-E-cut-3plOspear-E-DIM-INSTAnd he just cut the others' ankles with his little spear.tang-a-tn-iw-qinet"oktang-a-tn-iw-qinet"okanatang-a-t	[ot074]
	stranger-E-3plABS HAB-say-3pl INTJ so DEICT 1sg-POSS.3sgABS plak-a-ly-a-n parantet-y?i" shoe-E-SING-E-ABS rip-TH	
	The strangers said, "Oh, it seems my shoe's ripped"	[ot075]

370.	APPENDIX	
085	moo-qora-t ənnan-mətləŋen / ŋireq weŋ-qora-t caravan-reindeer-3pIABS one-five two trained-reindeer-3p amŋər?ootken qora-ŋə ənqen eight reindeer-3sgABS DEM.3sgABS	/ DIABS
	Six harness reindeer, two lead harness does, eight reindeer in all.	[ot085]
086		ŋan DEICT <i>[ot086]</i>
087	cake-qaj t-ə-re-piri-cqiw-ŋ-ə-n / ŋelwəl sister-DIM.3sgABS 1sg-E-FUT-take-PURP-FUT-E-3sg herd.3sgABS əmə t-ə-ra-n-1?at-en-ŋ-ə-n"	
	also 1sg-E-FUT-CS-go-CS-FUT-E-3sg I'll go to take back [my] sister; I'll lead off a herd too."	[ot087]
088	"k:olo əngatal anə ləye-wec-yəry-eyot" INTS it.happens so INTS-anney-NMZQ-1sg.VOC	t . 000
	"Ooh, you're really being annoying"	[ot088]
089	"any macanan layen" jalyat-y?a-t so enough really nomadize-TH-3pl "Mana ha a to many" Thun manad again	[ot089]
090	"Well let that be as it may". They moved camp. rewik-w?e-t=?m / taray-nenat=?m	[01069]
330	rewik-w?e-t=?m / taray-nenat=?m make.camp-TH-3pl=EMPH build.house-3sgA.3plO=EMPH	
	utt-ə-n-ejmew-jəw-ə-ninet#?m wood-E-CS-approach-INTS-E-3sgA.3plO=EMPH	
	They made camp, he put up the house for them, brought them firewo	od. (ot090)
91	öngen amjör?ootken qora-jö moo-qora-t DEM.3sgABS eight reindeer-3sgABS caravan-reindeer-3plABS	
	njenri aytan-menat thence drive-3sgA.3piO	
	And those eight reindeer, he drove those harness reindeer there	[ot091]
92	үәtү-ә-j::ŋ-ә-n lake-E-AUG-E-3sgABS	
	It was a huuuge lake.	[ot092]
093	herd-E-AUG-E-3sgABS this.3sgABS strange-E-herd-E-AUG-E-3sgABS here	
	/ nemeqej yəty-ə-ləŋ-kə also lake-E-EDGE-LOC	
	That big herd, that big stranger-herd there, [was] also on the edge of	the lake. [ot093]
094	ləyen ənkə y-uwintet-ə-l?et-linet really there.ADV PF-make.fire-E-DUR-3pl	
	So there they made a big cooking fire	[ot094]
095	anə janot ya-qora-nm-at-ə-1?at-lenat so first PF-reindeer-kill-TH-E-DUR-3plS	
	But first they slaughtered lots of reindeer.	[ot095]

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	Техт Оttəpojyəqaj	371.
096	Cəkwaŋaqaj-ə-n qora-t amŋər?ootken ŋelwəl personal.name-E-3sgABS reindeer-3plABS eight herd.3sgABS ŋutku / tanŋ-ə-ŋalwəl?-ə-jŋ-ə-n here stranger-E-herd-E-AUG-E-3sgABS	
	Cakwayaqaj's' eight reindeer herd here and the strangers' big herd.	[ot096]
097	ecyi qora-nm-at-ə-plətko-y?a-t ənr?a ŋalwəl?-etə ən-in no.sooner reindeer-ki- FH-E-COMPL-TH-3pl then herd-ALL 3sg-POSS.3sg	ABS
	ŋeiwəl?-ə-qej r-ejmew-nin ewət tanŋ-en herd-DIM.3sgABS CS-approach-3sgA.3sgO so stranger-POSS.3sgABS	
	ŋalwəl?-ə-jŋ-ə-n herd-E-AUG-E-3sgABS	
	As soon as they finished reindeer slaughtering now off to the herd, he d little herd, likewise the strangers' big herd.	rove his [ot097]
098	taŋ-əməl?o ləyen / amŋər?oot-qora-tu / EMPH-all.3sgABS really eight-reindeer-ERG	
	taŋ-əməl?-etə jaale-ytə / ye-n-ekwet-ew-lin ŋalwəl?-ə-jŋ-ə-n EMPH-all-ADV back-ALL PF-CS-go.back-TH-3sg herd-E-AUG-E-3sg	
	They all simply the eight reindeer completely turned back the big he	rd. [ot098]
099	ən-in yelwəl?-ə-qej jara-yqaca-ytə ənqen / 3sg-POSS.31gABS herd-E-DIM.3sgABS house-SIDE-ALL DEM.3sgABS	
	qənwer piri-nin=?m jara-ŋqaca-ytə aytan-nen like take-3sgA.3sgO=EMPH house-SIDE-ALL drive-3sgA.3sgO	
	His little herd just up to the house finally he took it, and drove it up t house.	o the [ot099]
100	n-iw-?e-n "e q-ə-jet-yi ewət / waj / INV-say-TH-3sg INTJ INT-E-come-TH so DEICT	
	mət-ra-qame-twa-y?a=m / mət-ra-maraw-y?a" 1pl-FUT-eal-RESULT-TH=EMPH 1pl-FUT-fight-TH	
	They said to him, "Oh, come in, so now we'll have something to eat, [the fight".	n] we'll [ot100]
101	"eej! aj t-ə-re-jet-y?e amənan yes DEICT 1sg-E-FUT-TH only	
	nelwəl qeeqənuqej nenri m-aytat-ə-n" herd.3sgABS slightly thence 1sg.INT-drive-E-3sg	
	"Yes, I'll come right away, I've just got to drive the herd a little bit that	t way" [ot101]
102	qora-t əmə y-ermeltet-linet reindeer-3pIABS also PF-be.victorious-3pl	
	[His] reindeer also ended up the strongest.	[ot102]

¹ This name is a mistake; it comes from a different story told by the same storyteller.

2. APPENDIX	ŢΕΧΤ Ottəpojγəqaj
anə ənqen janot ləyen qame-twa-y?a-t=?m so DEM.3sgABS first realiy eat-RESULT-TH-3pl=EMPH cakəyet ənkə sister there Well so first they just ate, the sister [was] there. [ot103]	111 qanwer layen telyet-y?i pojy-a-mal-a-l?-a-n finally really puff-TH spear-E-agile-E-NMZR-E-3sgABS tang-a-tan / pirq-a-y?i w?i-y?i stranger-E-REDUP.3sgABS collapse-E-TH die-TH Finally the agile-spearing stranger started puffing, he collapsed from exhaustion and died.
l n-in-iw-qin cakəyet "iyət=?m waj / l{AB-TR-say-3sg sister.3sgABS now=EMPH EMPH mət-ra-ra-yt-ə-y?a ŋir?e-muri" 1pl-FUT-house-go.to-E-TH two-1plABS	exhaustion and died. ¹¹² e, Iəγen qezqən / Iəγen əməl?o ənŋin INTJ really more really all.3ABS thus And so on, it was all just like that.
He said to his sister "Now the two of us will go home" [ot104] n-in-iw-qin cakett-a "qərəm-ewən q-ə-ra-yt-ə-ye HAB-TR-say-3sg sister-ERG NEG-INTS INT-E-house-go.to-E-TH ənqen na-ra-nm-ə-yət	113 tag-əməl?o mənyətken ?orawetl?a-n qlawəl INTS-all.3ABS ten person-3sgABS man.3sgABS סברדיםו?o teg-ə-tku-nin ביוואא INTS-E-annihilate-3sgA.3sgO
DEM.3sgABS INV-FUT-kill-E-2sg The sister said to him "You won't be going home, they're going to kill you" [ot105]	All ten people, men, he wiped them all out. 114 ?amən əntuulpər=?m ənk?am ənnen ?oratceq-qaj
"qərəm ?ən-ə-nm-ə-yəm" NEG.FUT 3plA.INT-E-kill-E-1sgO "They won't kill me". [ot106]	INTJ brother.in.law=EMPH and one youth-DIM.3sgABS rə-ynu-w-ninet ewət cakəyet CS-stay.behind-CS-3sgA.3piO likewise sister.3sgABS Well he left the brother-in-law and one youth, likewise the sister.
anə ənan-məl-ə-1?-ə-n ənqen pojyəl?at-ə-k so SUPER-agile-E-NMZR-E-?sgABS DEM.3sgABS spear.duel-E-INF ənqen ənan-?ətt?əjöl	115 amal?o qut-ti tam-a-tko-jw-a-nenat all.3ABS other-3pIABS kill-E-INTER-COLL-E-3sgA.3plO He killed all the others.
DEM.3sgABS SUPER-first Well the most agile [at] spearfighting, that one was first of all. [ot107] ano janot layen n-a-pojyal?at-a-l?at-genat / nagam	116 ənr?aq ənqen əntuulpəre-n-u / ləy-nin then that.3sgABS brother.in.law-AN-EQU AUX-3sgA.3sgO ənqen / rə-yno-w-jo ?oratceq-qaj
so first really HAB-E-spear.duel-E-DUR-3pl but an-in annan-many-a gelug=?m 3sg-POSS.3sgABS one-hand-INST because=EMPH	that.3sgABS CS-remain-CS-PASS.PCPL youth-DIM Now then he took that youth who was left as a brother-in-law.
n-ə-ppəlu-qine-qej pojy-ə-qaj ADJ-E-small-3-DIM.3sgABS spear-E-DIM.3sgABS	117 "mən-ra-yt-ə-mək waj" 1pl.INT-house-go.to-E-1pl DEICT "Let's go home"
Well first they simply fought with spears, however [he used] his with one hand, because of his little tiny spear. [ot108] ləyen ewət n-ena-n-raq-aw-ə-myo-qen pojy-ott-a	118 ecyi ra-yt-ə-ŋŋo-y?a-t=?m / qətləyi waj / cəmq no.sooner house-go.to-E-INCH-TH-3pl=EMPH however DEICT other.A
really so HAB-TR-CAUS-do.something-TH-E-INCH-3sg spear-wood-INST n-ine-n-req-ew-qin ?eqe-1?-e / req-e tang-a / HAB-TR-CAUS-do.something-TH-3sg bad-NMZR-ERG something-ERG stranger-ERG	gan migka n-a-twa-qenat anqen ?orawetl?a-t DEICT somewhere AHB-E-be-3pl DEM.3sgABS person-3plABS But as they were preparing to go home, those other people turned out to be somewhere also somewhere also
[nine] n-ena-ponye-qen pojy-ott-ə-ot HAB-TR-block-3sg spear-wood-E-REDIJP.3sgABS	somewhere else. 119 jara-ytə ye-lqət-linet ?orawetl?a-t=?m / n-?ejŋew-ə-n house-ALL PF-set.off-3pl person-3plABS=EMPH INV-cail.out-E-3sqO
n-ə-mle-qin pojy-ə-n HAB-E-break-3sg spear-E-ABS But whenever he started to do anything to him with the spear, the enemy was	ŋewəcqet [?] oratceq-gaj-ə-n woman.3sgABS youth-DIM-E+POSS.3sgABS
doing anything, the stranger whatever, he blocked the spearshaft, the spear broke. [ot109]	The people set off home, they called out to the youth's woman. 120 qol=?m ra-yt-ə-y?e / ənqen ŋinqej QUANT.3sgABS=EMPH house-go.to-E-TH DEM.3sgABS boy.3sgABS
qulle-qej panena n-?atca-qen QUANT-DIM.3sgABS still HAB-wait-3sg	QUANT.3sgABS=EMPH house-go.to-E-TH DEM.3sgABS boy.3sgABS The other also went home, that boy.
The other little one was still waiting [ot110]	

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374. APPENDIX		TEXT Ottəpojyəqaj 37
121 r?enut? what.3sgABS What's that (i.e. how does it go?)	[ot121]	132 "פּ waj אָשָּאָרָאָדער אָנא Jokwa-qaj etaanə" און איז איז איז איז איז איז איז איז איז איז
122 pojy-ə-qaj rənr-ə-nin ra-yt-ə-y?e spear-E-DIM.3sgABS hold-E-2sgA.3sgO house-go.to-E-TH He took the little spear, he went home.	[ot122]	133 anə waj ləyen qənwer omk-ə-cəko-ytə ekwet-y?i so DEICT really finally bush-E-INESS-ALL go-TH tiwəcy-ə-qej n-ine-nr-ә-qin ənqen Jare-na
	-tku-net" / A-E-annihilale-3plO	snow.beater-E-DIM.3sgABS HAB-TR-hold-E-3sgO that.3sgABS Jare-ERG Well then, simply, finally she went into the bushes holding a little snow-beater that Jare. [ot13.
house-LOC aπive-E-SEQ He said "As it happens I simply wiped out all the rest", (he s home.	aid] after arriving [ot123]	134 waj cakej! ŋotqena-jyəm! ənŋe ena-j?o-ka DEICT sister.VOC there-1sgABS NEG.HORT AP-approach-NEG q-ə-ra-yt-ə-y?e!
124 "ana kake! atlon i?am req-a-1?et-a-rko:::n?" so INTJ INTER INTER do.what?-E-DUR-E-PROG.VOC		INT-E-house-go.to-TH Hey sister! I'm here! Don't approach, go home! [ot134
*Oh my! Why, what on earth are you doing?!" 125 ana waj layen	[ot124]	135 anə nelwəl ənir?aq j?o-nen kəceciw-ə-nin ənkə so herd.3sgABS then go.to-3sgA.3sgO follow-E-3sgA.3sgO there Well he went to the herd, followed it there. [ot13]
so DEICT really Just like that.	[ot125]	136 cama layen n-ena-yatka-mla-tko-jw-a-qenat and really HAB-TR-leg-break-ITER-INTS-E-3plO
126 "enmec we' iyət t-ə-rc-lqət-y?e" anyway DEICT now 1sg-E-FUT-set.off-TH	(And simply broke their legs. [ot130
"T'll set off now" 127 anpanacy-a-qaj qatlayi qol jara-k old.man-E-DIM.3sgABS however QUANT.3sgABS house-LOC There was one old man in the house however.	[ot 126] n-ə-twa-qen HAB-E-be-3sg [ot 127]	that.3sgABS person-3plABS arrive-E-NMZR-E-3plABS really n-ine-piri-qinet / vətka-jpə n-ine-piri-qinet / ənqen HAB-TR-take-3plO ieg-ABL HAB-TR-take-3plO that.3sgABS
128 Jare-n uweqəc-in ətləy-ə-n Jare-POSS.3sgABS husband-POSS.3sgABS father-E-3sgABS <i>[He was] Jare's husband's father.</i>	[ot 128]	?iy-ə-nely-ə-cəku aləmə / yətka-jpə n-ine-piri-qinet / wolf-E-skin-E-INESS INTJ leg-ABL HAB-TR-take-3plO n-ena-yətka-mla-qenat jaale-jpə HAB-TR-leg-break-3plO behind-ABL
129 waj / c?enut ənqen? DEICT what?.ABS that.ABS Now what [was he called]?	[ot129]	Those people coming to the herd, he simply took them by the legs he took them that is he in the wolf skin took them by the legs and broke them from behind. [ot137
130 ?iy-ə-nely-ə-cəku ŋ?el-y?i neme qət-y?i omk-ə-cə wolf-E-skin-E-INESS become-TH ağain set.olf-TH bush-E-INE gaanre / ənqorə n-?ejŋe-qin / n-iw-qin "	γko-γta	138 ənpənacy-ə-qaj j?o-nen pely-epə / wey-ə-tku-nin cld.man-E-DIM.3cgABS approach-3sgA.3sgO throat-ABL claw-E-UTIL-3sgA.3sgO təm-nen kill-3sgA.3sgO He approached the old man, clawed his throat, killed him. [ot138
INTJ INTJ He climbed inside the wolf skin, again set off, into the bush there he cried out, he said "jare u-u-k jare u-u-k"	es thither, from [ot130]	139 panena ñeme atr?ec ŋar?o-ryace / ŋiceq ra-ynu-w-ninet ctill also all three-COLL two.NUM CS-remain-TH-3sgA.3plO Once again he only left a trio, two. [ot139
131 n-iw-qin ənpənacy-ə-n n-iw-qin "okkoji Jan HAB-say-3sg old.man-E-3sgABS HAB-say-3sg INTJ pers r?enut ?ejŋe-rkən?l ənqen etaanə pa	sonal.name.3sgABS Iqat-ə-ŋŋo-y?e?"	140 "ee mən-ra-yt-ə-mək ənŋatal iyət" INTJ 1pl.INT-house-go.to-E-1pl of.course now "Well let's go home now of course" [ot140
what?,3sgABS cry-PROG DEM.3sgABS probably die- He said, the old man said "Ohl Jare, what's crying out?! P. has started starving"	E-INCH-TH robably something [ot131]	· · ·

APPENDIX

141	ra-yt-ə-y?a-t / ?ətt?əjol pəkir-y?i qeluq=?m house-go.to-E-TH-3pl first.ADV arrive-TH because=EMPH ?iy-ə-nely-ə-cəku n-ə-twa-qen wolf-E-skin-E-INESS HAB-E-be-3sg	[ot141]			
. :-	They went home. He arrived first because he was inside the wolf skin.	[01141]			
142	ətl?a-ytə "okkoj ənr?aq r?enut gotqen?" mother-ALL INTJ then what?.3sgABS this.3sgABS				
	[He went] to his mother; [she said] "Oh my, what is this then?"	[ot142]			
143	"waj yəmo / cake-qaj [#] / cake-qaj DEICT 1sgABS sister-DIM.3sgABS sister-DIM.3sgABS				
	Jare t-ə-piri-?e-n ewət uwequci-lqəl ən-in personal.name.3sgABS 1sg-E-take-iH-3sg likewise husband-EQUIV 3sg-POSS	.3sgABS			
	neməqej / yelwəl əmə t-ə-piri-?e-n				
	also herd.3sgABS too 1sg-E-take-TH-3sg	lia			
	"It's me. Sister I've taken [my] sister Jare and a fiance for her too; I've taken a herd.	e aiso [ot143]			
144	taŋ-əməl?o t-ə-nm-ə-tko-jw-ə nat i?am yəmn-in INTS-ALL 1sg-E-kill-E-ITER-COLL-E-3pl why? 1sg-PūSS.3sgABS				
	cakəyet ye-piri-lin?" sister.3sgABS PF-take-3sg				
	I've killed them all. Why did they take my sister?"	[ot144]			
145	e ənk?am jalyət-y?a-t ŋalvəl?-ə-jŋ-ə-n ləyen INTJ and move.camp-TH-3pi herd-E-AUG-E-3sgABS really				
	And they moved camp. [with] a big herd.				
146	iee layen nam-a-twa-y?a-t angen angin / excellent really settle-E-be-TH-3pl DEM.3sgABS thus				
	ənpənacy-ə-qay-te / cakəyet ewət əntuulpər ətle	ori 1.3sgABS			
	So they all lived well; the old people, the sister, and her husband as we	ell. [ot146]			
147	iee ləyen tay-nəmətwa-y?a-t excellently really INTS-live-TH-3pl				
	They all lived excellently.	[ot147]			
148	pələtku-γ?e-t ənqen əməl?o qu-jw-ə-ninet / VSJO finish-TH-3pl DEM.3sgABS all.3ABS kill-AUG-E-3sgA.3plÓ all				
	They finished [i.e. they were finished], he killed them all. That's all	[ot148]			
		1			
149	əcc?et ali				

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