

ISS Mission 67P (Progress MS-06, No.436) Launch, 34-Orbit Rendezvous, and Docking to SM aft

Event	PET	MET	GMT	Houston	DMT	Baikonur
	d/hh:mm:ss	d/hh:mm:ss	ddd/hh:mm:ss	day(mm/dd) hh:mm:ss	d/hh:mm:ss	d/hh:mm:ss
Sunrise at launch site	-2/11:48:30	-0/09:26:13	164/23:54:00	Tue(06/13) 18:54:00	165/02:54:00	165/05:54:00
CATS inhibit NLT (launch)	-2/02:22:17	0/00:00:00	165/09:20:13	Wed(06/14) 04:20:13	165/12:20:13	
Launch	-2/02:22:17	0/00:00:00	165/09:20:13	Wed(06/14) 04:20:13	165/12:20:13	165/15:20:13
Third stage shutdown / orbital insertion	-2/02:13:32	0/00:08:45	165/09:28:58	Wed(06/14) 04:28:58	165/12:28:58	
DV1 (33.75 m/s)	-1/22:49:27	0/03:32:50	165/12:53:03	Wed(06/14) 07:53:03	165/15:53:03	
DV2 (28.28 m/s)	-1/22:11:00	0/04:11:17	165/13:31:30	Wed(06/14) 08:31:30	165/16:31:30	
Sunset at launch site	-1/20:04:30	0/06:17:47	165/15:38:00	Wed(06/14) 10:38:00	165/18:38:00	165/21:38:00
DV3 (4.00 m/s)	-1/00:47:21	1/01:34:56	166/10:55:09	Thu(06/15) 05:55:09	166/13:55:09	
SCAN S-bd / C2V2 / HTV PROX / Cygnus PROX / Cygnus S-bd GS / Dragon S-bd GS inhibit NLT (range = 2700 km)	-0/06:22:30	1/19:59:47	167/05:20:00	Fri(06/16) 00:20:00	167/08:20:00	
Sunrise	-0/02:31:48	1/23:50:29	167/09:10:42	Fri(06/16) 04:10:42	167/12:10:42	
Automated rendezvous start	-0/02:23:24	1/23:58:53	167/09:19:06	Fri(06/16) 04:19:06	167/12:19:06	
Daily Orbit 2 RGS AOS	-0/02:02:47	2/00:19:30	167/09:39:43	Fri(06/16) 04:39:43	167/12:39:43	
Impulse 1 (15.147 m/s)	-0/01:59:46	2/00:22:31	167/09:42:44	Fri(06/16) 04:42:44	167/12:42:44	
USOS to RS MCS Handover: LVLH(356.0,359.8,0.7)	-0/01:48:30	2/00:33:47	167/09:54:00	Fri(06/16) 04:54:00	167/12:54:00	
Daily Orbit 2 RGS LOS	-0/01:39:24	2/00:42:53	167/10:03:06	Fri(06/16) 05:03:06	167/13:03:06	
Impulse 2 (1.575 m/s)	-0/01:38:17	2/00:44:00	167/10:04:13	Fri(06/16) 05:04:13	167/13:04:13	
Sunset	-0/01:36:28	2/00:45:49	167/10:06:02	Fri(06/16) 05:06:02	167/13:06:02	
SM Kurs-P activation	-0/01:35:05	2/00:47:12	167/10:07:25	Fri(06/16) 05:07:25	167/13:07:25	
Progress Kurs-NA activation	-0/01:34:05	2/00:48:12	167/10:08:25	Fri(06/16) 05:08:25	167/13:08:25	
Impulse 3 (25.010 m/s)	-0/01:15:19	2/01:06:58	167/10:27:11	Fri(06/16) 05:27:11	167/13:27:11	
Valid SM Kurs-P range data; Kurs-NA [AO] antenna activated (range = 45 km)	-0/01:05:14	2/01:17:03	167/10:37:16	Fri(06/16) 05:37:16	167/13:37:16	
Sunrise	-0/01:01:18	2/01:20:59	167/10:41:12	Fri(06/16) 05:41:12	167/13:41:12	
Kurs test (range = 15 km)	-0/00:52:14	2/01:30:03	167/10:50:16	Fri(06/16) 05:50:16	167/13:50:16	
Ham radio deactivate NLT (SM TORU VHF-2 activation)	-0/00:46:44	2/01:35:33	167/10:55:46	Fri(06/16) 05:55:46	167/13:55:46	
SM VHF-2 transmitter activation for TORU cmd link (range = 9 km)	-0/00:46:44	2/01:35:33	167/10:55:46	Fri(06/16) 05:55:46	167/13:55:46	
SCAN Ka-band inhibit NLT (range = 6 km)	-0/00:42:14	2/01:40:03	167/11:00:16	Fri(06/16) 06:00:16	167/14:00:16	
Progress VHF receiver activation for TORU cmd link (range = 3 km)	-0/00:36:34	2/01:45:43	167/11:05:56	Fri(06/16) 06:05:56	167/14:05:56	
Impulse 4 (5.396 m/s)	-0/00:34:53	2/01:47:24	167/11:07:37	Fri(06/16) 06:07:37	167/14:07:37	
ICS Ka-band inhibit NLT (range = 2 km)	-0/00:34:34	2/01:47:43	167/11:07:56	Fri(06/16) 06:07:56	167/14:07:56	
TORU cmd link test	-0/00:34:34	2/01:47:43	167/11:07:56	Fri(06/16) 06:07:56	167/14:07:56	
Ballistic targeting point activation)	-0/00:33:24	2/01:48:53	167/11:09:06	Fri(06/16) 06:09:06	167/14:09:06	
Progress TV activation (range = 1.5 km)	-0/00:32:30	2/01:49:47	167/11:10:00	Fri(06/16) 06:10:00	167/14:10:00	
Daily Orbit 3 RGS AOS	-0/00:32:30	2/01:49:47	167/11:10:00	Fri(06/16) 06:10:00	167/14:10:00	
Daily Orbit 3 RGS AOS	-0/00:31:17	2/01:51:00	167/11:11:13	Fri(06/16) 06:11:13	167/14:11:13	
Impulse 5 (5.633 m/s)	-0/00:30:31	2/01:51:46	167/11:11:59	Fri(06/16) 06:11:59	167/14:11:59	
Impulse 6 (1.564 m/s)	-0/00:27:32	2/01:54:45	167/11:14:58	Fri(06/16) 06:14:58	167/14:14:58	
Flyaround mode start	-0/00:24:47	2/01:57:30	167/11:17:43	Fri(06/16) 06:17:43	167/14:17:43	
Stationkeeping start	-0/00:15:46	2/02:06:31	167/11:26:44	Fri(06/16) 06:26:44	167/14:26:44	
Final approach start	-0/00:10:09	2/02:12:08	167/11:32:21	Fri(06/16) 06:32:21	167/14:32:21	
Daily Orbit 3 RGS LOS	-0/00:09:02	2/02:13:15	167/11:33:28	Fri(06/16) 06:33:28	167/14:33:28	
Contingency ISS inertial snap-and-hold window open	-0/00:04:19	2/02:17:58	167/11:38:11	Fri(06/16) 06:38:11	167/14:38:11	
Sunset	-0/00:03:44	2/02:18:33	167/11:38:46	Fri(06/16) 06:38:46	167/14:38:46	
Docking	+0/00:00:00	2/02:22:17	167/11:42:30	Fri(06/16) 06:42:30	167/14:42:30	
ISS to free drift at docking	+0/00:00:00	2/02:22:17	167/11:42:30	Fri(06/16) 06:42:30	167/14:42:30	
Contingency ISS inertial snap-and-hold window close	+0/00:05:41	2/02:27:58	167/11:48:11	Fri(06/16) 06:48:11	167/14:48:11	
Progress hooks closed: ISS mnvr to LVLH(356.0,359.6,0.7)	+0/00:13:30	2/02:35:47	167/11:56:00	Fri(06/16) 06:56:00	167/14:56:00	
Sunrise	+0/00:31:34	2/02:53:51	167/12:14:04	Fri(06/16) 07:14:04	167/15:14:04	
RS to USOS MCS Handover	+0/00:52:30	2/03:14:47	167/12:35:00	Fri(06/16) 07:35:00	167/15:35:00	
Daily Orbit 4 RGS AOS	+0/01:04:19	2/03:26:36	167/12:46:49	Fri(06/16) 07:46:49	167/15:46:49	
Daily Orbit 4 RGS LOS	+0/01:22:17	2/03:44:34	167/13:04:47	Fri(06/16) 08:04:47	167/16:04:47	