

Maneuver	Description/ Location	Maneuver Time (UTC SCET)	Burn Time (sec)	Burn Type
				MEA = Main Engine Assembly RCS = Reaction Control System
TCM-01	L+25d	11/9/97 20:00	34.346	MEA
TCM-02	V1-60d	2/25/98 20:00	292.000	RCS
TCM-03	V1-18d	4/8/98 20:00		CANCELLED
TCM-04	V1+18d	5/14/98 20:00		CANCELLED
TCM-05	Deep Space Maneuver	12/3/98 6:00	5254.884	MEA
TCM-06	V2-140d	2/4/99 20:00	120.016	MEA
TCM-07	V2-37d	5/18/99 17:00	335.500	RCS
TCM-08	V2-14d	6/10/99 18:00		CANCELLED
TCM-09	V2+12d	7/6/99 17:00	459.326	MEA
TCM-10	E-29d	7/19/99 16:00	54.461	MEA
TCM-11	E-15d	8/2/99 21:30	391.322	MEA
TCM-12	E-6d	8/11/99 15:30	133.268	MEA
TCM-13	E+14d	8/31/99 16:00	72.100	MEA
TCM-14	J-199d	6/14/00 17:00	5.909	MEA
TCM-15	J-80d	10/11/00 0:00		CANCELLED
TCM-16	J-23d	12/7/00 0:00		CANCELLED
TCM-17	J+60d	2/28/01 17:29	5.311	MEA
TCM-18	S-819d	4/3/02 18:00	9.720	MEA
TCM-19	S-426d	5/1/03 20:00	17.407	MEA
TCM-19a	S-294d	9/10/03 20:00	197.625	RCS
TCM-19b	S-273d	10/2/03 4:00	21.625	MEA
TCM-20	Ph-15d	5/27/04 22:26	361.896	MEA
TCM-21	S-14d	6/16/04 21:07	38.260	MEA
TCM-22	S-9d	6/21/04 20:52		REMOVED
SOI	Saturn Orbit Insertion	7/1/04 1:12	5780.250	MEA
OTM-001	SOI+2d	7/3/04 20:06		CANCELLED
OTM-001a	SOI+16d	7/17/04 19:21		CONTINGENCY
OTM-002	Periapse Raise Maneuver	8/23/04 15:53	3068.000	MEA
OTM-003	PRM-Clean Up	9/7/04 16:30	3.475	MEA
OTM-004	Ta-3d	10/23/04 6:16	464.375	RCS
OTM-005	Ta+3d	10/29/04 6:15	4.600	MEA
OTM-006	Ta~apo	11/21/04 5:00	3.080	MEA
OTM-007	Tb-3d	12/10/04 3:06		CANCELLED
OTM-008	Probe Targeting Maneuver	12/17/04 1:22	84.814	MEA
OTM-009	PTM-Clean Up	12/23/04 0:52	18.875	RCS
OTM-010	Orbiter Deflection Maneuver	12/28/04 0:37	153.413	MEA
OTM-010a	ODM-Clean Up	1/3/05 23:38	147.625	RCS
OTM-011	Tc+2d	1/16/05 9:20	140.330	MEA
OTM-012	Tc~apo	1/28/05 7:08	119.171	MEA
OTM-013	T3-3d	2/12/05 6:07	220.500	RCS
OTM-014	T3+2d	2/18/05 6:00	4.458	MEA
OTM-015	T3~apo	3/2/05 4:50	40.165	MEA
OTM-016	E1-3d	3/6/05 4:35		CANCELLED
OTM-017	E1+3d	3/12/05 3:20	2.697	MEA
OTM-018	E1~apo	3/19/05 18:19	10.262	MEA

OTM-019	T4-3d	3/28/05 2:00		CANCELLED
OTM-020	T4+3d	4/4/05 2:22	5.789	MEA
OTM-021	T4~apo	4/10/05 2:00	37.350	MEA
OTM-022	T5-3d	4/14/05 2:40	67.625	RCS
OTM-023	T5+3d	4/20/05 0:59		CANCELLED
OTM-024	T5~apo	4/29/05 0:58	131.534	MEA
OTM-025	E2-6d	7/8/05 20:37	2.100	MEA
OTM-026	E2~per	8/3/05 11:50	16.570	MEA
OTM-027	E2~apo	8/10/05 13:21	15.386	MEA
OTM-028	T6-3d	8/18/05 11:00		CANCELLED
OTM-029	T6+3d	8/25/05 17:08	9.173	MEA
OTM-030	T6~apo	8/30/05 18:43	91.350	MEA
OTM-031	T7-3d	9/3/05 17:30	66.875	RCS
OTM-032	T7+3d	9/10/05 17:09		CANCELLED
OTM-033	T7~apo	9/19/05 16:40	176.177	MEA
OTM-034	H1-3d	9/23/05 7:45		CANCELLED
OTM-035	H1+3d	9/28/05 16:11	321.250	RCS
OTM-036	H1~apo	10/1/05 14:26		CANCELLED
OTM-037	D1-3d	10/8/05 9:30		CANCELLED
OTM-038	D1+1d	10/12/05 5:57	92.725	MEA
OTM-039	D1~apo	10/21/05 14:58	96.625	RCS
OTM-040	T8-3d	10/25/05 7:14		CANCELLED
OTM-041	T8+3d	10/31/05 13:59	77.649	MEA
OTM-042	T8~apo	11/13/05 14:02	13.171	MEA
OTM-043	R1-3d	11/23/05 13:03	63.125	RCS
OTM-044	R1+1d	11/28/05 4:15	262.625	RCS
OTM-045	R1~apo	12/11/05 11:35		CANCELLED
OTM-046	T9-3d	12/23/05 12:25		CANCELLED
OTM-047	T9+3d	12/30/05 2:47	198.750	RCS
OTM-048	T9~apo	1/3/06 2:22		DELETED
OTM-049	T10-3d	1/12/06 9:23		CANCELLED
OTM-050	T10+3d	1/18/06 8:37		CANCELLED
OTM-051	T10~apo	2/2/06 7:53	203.125	RCS
OTM-052	T11-3d	2/24/06 6:26		CANCELLED
OTM-053	T11+3d	3/2/06 5:51	291.500	RCS
OTM-054	T11~apo	3/6/06 5:36		DELETED
OTM-055	T12-3d	3/16/06 4:50		CANCELLED
OTM-056	T12+3d	3/22/06 4:19	2.715	MEA
OTM-057	T12~apo	4/6/06 3:32	2.206	MEA
OTM-058	T13-3d	4/27/06 1:59	53.125	RCS
OTM-059	T13+3d	5/4/06 1:28	2.973	MEA
OTM-060	T13~apo	5/8/06 1:13		DELETED
OTM-061	T14-3d	5/18/06 0:41	85.125	RCS
OTM-062	T14+3d	5/23/06 16:41		CANCELLED
OTM-063	T14~apo	6/7/06 23:24	11.975	MEA
OTM-064	T15-3d	6/28/06 22:07	47.750	RCS
OTM-065	T15+3d	7/5/06 21:36	96.875	RCS
OTM-066	T15~apo	7/10/06 21:21		DELETED

OTM-067	T16-3d	7/18/06 20:51		CANCELLED
OTM-068	T16+3d	7/24/06 20:30		CANCELLED
OTM-069	T16~apo	8/1/06 20:05	33.804	MEA
OTM-070	T17-3d	9/4/06 18:21	164.125	RCS
OTM-071	T17+3d	9/10/06 18:00	40.887	MEA
OTM-072	T17~apo	9/14/06 10:07	50.806	MEA
OTM-073	T18-3d	9/20/06 16:32		CANCELLED
OTM-074	T18+3d	9/26/06 17:30		CANCELLED
OTM-075	T18~apo	10/1/06 9:08	40.250	MEA
OTM-076	T19-3d	10/6/06 16:24	26.500	RCS
OTM-077	T19+3d	10/12/06 16:10		CANCELLED
OTM-078	T19~apo	10/17/06 15:40	5.225	MEA
OTM-079	T20-3d	10/22/06 15:26	44.250	RCS
OTM-080	T20~per	11/9/06 14:28	22.703	MEA
OTM-081-BU	T20~apo	11/27/06 13:15	160.125	RCS
OTM-082	T21-3d	12/9/06 12:32		CANCELLED
OTM-083	T21+3d	12/15/06 12:03	4.758	MEA
OTM-084	T21~apo	12/20/06 11:48	42.725	MEA
OTM-085	T22-3d	12/25/06 11:34		CANCELLED
OTM-086	T22+3d	12/31/06 11:05	2.823	MEA
OTM-087	T22~apo	1/5/07 10:50	10.172	MEA
OTM-088	T23-3d	1/10/07 10:20	27.625	RCS
OTM-089	T23+3d	1/16/07 2:36	158.500	RCS
OTM-090	T23~apo	1/21/07 9:36	14.694	MEA
OTM-091	T24-3d	1/26/07 9:21	7.625	RCS
OTM-092	T24+3d	2/1/07 8:52		CANCELLED
OTM-093	T24~apo	2/7/07 8:37	1.523	MEA
OTM-094	T25-3d	2/19/07 7:37	28.000	RCS
OTM-095	T25+3d	2/25/07 7:22		CANCELLED
OTM-096	T25~apo	3/2/07 6:51	4.079	MEA
OTM-097	T26-3d	3/6/07 23:06		CANCELLED
OTM-098	T26+3d	3/13/07 6:06	6.639	MEA
OTM-099	T26~apo	3/18/07 5:50	9.955	MEA
OTM-100	T27-3d	3/22/07 20:30	49.750	RCS
OTM-101	T27+3d	3/28/07 20:49	3.221	MEA
OTM-102	T27~apo	4/3/07 4:34	16.712	MEA
OTM-103	T28-3d	4/7/07 20:48	25.875	RCS
OTM-104	T28+3d	4/14/07 3:47		CANCELLED
OTM-105	T28~apo	4/19/07 3:32	21.888	MEA
OTM-106	T29-3d	4/24/07 3:16	8.875	RCS
OTM-107	T29+3d	4/30/07 2:45		CANCELLED
OTM-108	T29~apo	5/4/07 19:00	34.508	MEA
OTM-109	T30-3d	5/9/07 2:14	14.500	RCS
OTM-110	T30+3d	5/16/07 1:43		CANCELLED
OTM-111	T30~apo	5/21/07 1:27	34.257	MEA
OTM-112-BU	T31-2d	5/26/07 15:57		CANCELLED
OTM-113	T31+3d	6/1/07 0:41	4.303	MEA
OTM-114	T31~apo	6/5/07 16:55	75.567	MEA

OTM-115	T32-3d	6/11/07 0:10	25.500	RCS
OTM-116	T32+3d	6/16/07 23:39	4.585	MEA
OTM-117	T32~apo	6/21/07 23:23	49.037	MEA
OTM-118	T33-3d	6/26/07 23:08	6.875	RCS
OTM-119	T33+3d	7/3/07 22:37	13.875	RCS
OTM-120	T33~apo	7/8/07 22:22		DELETED
OTM-121	T34-3d	7/15/07 22:06	7.000	RCS
OTM-122	T34+3d	7/21/07 21:36		CANCELLED
OTM-123-BU	T34~apo	8/6/07 20:35	2.598	MEA
OTM-124	T35-3d	8/27/07 19:20		CANCELLED
OTM-125	T35+2d	9/2/07 11:35	2.975	MEA
OTM-126	T35+5d	9/5/07 18:50		DELETED
OTM-127	I1-2d	9/8/07 18:50		CANCELLED
OTM-128	I1+3d	9/13/07 18:20	83.415	MEA
OTM-129	I1+6d	9/17/07 18:21	79.000	RCS
OTM-130	T36-3d	9/28/07 17:36	14.375	RCS
OTM-131	T36+3d	10/5/07 17:22	8.168	MEA
OTM-132	T36~apo	11/1/07 15:40	6.013	MEA
OTM-133	T37-3d	11/15/07 14:56	50.750	RCS
OTM-134	T37+3d	11/22/07 6:57	7.207	MEA
OTM-135	T37~apo	11/27/07 6:43	96.475	MEA
OTM-136	T38-3d	12/2/07 13:44	10.625	RCS
OTM-137	T38+3d	12/8/07 6:00	4.178	MEA
OTM-138	T38~apo	12/13/07 7:10	59.073	MEA
OTM-139	T39-3d	12/18/07 5:16	7.125	RCS
OTM-140	T39+3d	12/24/07 5:02		CANCELLED
OTM-141	T39~apo	12/29/07 12:02	12.551	MEA
OTM-142	T40-3d	1/3/08 4:18		CANCELLED
OTM-143	T40~per	1/16/08 4:15	17.638	MEA
OTM-144	T40~apo	2/6/08 2:06	227.845	MEA
OTM-145	T41-3d	2/19/08 8:36	1.725	MEA
OTM-146	T41~per	3/1/08 22:56	42.600	MEA
OTM-147	T41~apo	3/7/08 7:21	6.798	MEA
OTM-148-BU	E3-2d	3/11/08 7:06		CANCELLED
OTM-149	E3+1d	3/13/08 23:21	16.673	MEA
OTM-150	E3~apo	3/18/08 6:35	40.500	RCS
OTM-151	T42-3d	3/22/08 22:50		CANCELLED
OTM-152	T42~per	4/11/08 1:04	20.163	MEA
OTM-153	T42~apo	4/26/08 3:47	3.062	MEA
OTM-154	T43-3d	5/9/08 3:00		CANCELLED
OTM-155	T43+5d	5/17/08 1:20	7.100	MEA
OTM-156	T43~apo	5/22/08 2:13	155.125	RCS
OTM-157	T44-3d	5/25/08 1:58		CANCELLED
OTM-158	T44+4d	6/1/08 0:27		CANCELLED
OTM-159	T44~per	6/23/08 6:24	73.547	MEA
OTM-160	T45-3d	7/27/08 14:36	139.000	RCS
OTM-162	T45+4d	8/3/08 22:15	15.401	MEA
OTM-163	E4-3d	8/8/08 21:20		CANCELLED

OTM-164	E4+11d	8/23/08 2:49	81.175	MEA
OTM-164a	E4+40d	9/20/08 18:49	5.296	MEA
OTM-165	E4~per	10/2/08 10:19	23.709	MEA
OTM-166	E5-3d	10/6/08 18:05	8.125	RCS
OTM-167	E5+3d	10/12/08 23:51	20.039	MEA
OTM-168	E5~per	10/17/08 9:10	41.725	MEA
OTM-169	T46-5d	10/29/08 16:37	191.000	RCS
OTM-170	T46~per	11/8/08 22:23	54.600	MEA
OTM-171	T46~apo	11/12/08 22:09	30.850	MEA
OTM-172	T47-3d	11/16/08 8:09		CANCELLED
OTM-173	T47+4d	11/23/08 21:25	4.660	MEA
OTM-174	T47~apo	11/27/08 21:10		CANCELLED
OTM-175	T48-4d	12/1/08 20:56	57.500	RCS
OTM-176	T48+4d	12/9/08 20:27	18.225	MEA
OTM-177	T48~apo	12/13/08 20:13	9.725	MEA
OTM-178	T49-4d	12/17/08 19:58	19.625	RCS
OTM-179	T49+3d	12/24/08 19:44		CANCELLED
OTM-180	T49~per	1/24/09 3:48	27.796	MEA
OTM-181	T50-3d	2/4/09 10:34		CANCELLED
OTM-182	T50+3d	2/10/09 10:04	2.100	MEA
OTM-183	T50~per	3/9/09 8:20	29.875	MEA
OTM-183x	T51-9d	3/18/09 0:05	12.750	RCS
OTM-184	T51-3d	3/24/09 7:20		CANCELLED
OTM-186	T51~per	3/29/09 13:05	4.437	MEA
OTM-186a	T52-3d	4/1/09 6:35		CONTINGENCY
OTM-188	T52+3d	4/7/09 6:19		CANCELLED
OTM-189	T52~per	4/12/09 12:04	42.225	MEA
OTM-190	T53-3d	4/17/09 5:33		CANCELLED
OTM-191	T53~per	4/23/09 5:03		CANCELLED
OTM-192	T53~apo	4/28/09 11:02	14.817	MEA
OTM-193	T54-3d	5/2/09 21:02		CANCELLED
OTM-194	T54~per	5/9/09 4:01		CANCELLED
OTM-195	T54~apo	5/14/09 10:00	13.182	MEA
OTM-196	T55-3d	5/18/09 19:45	37.625	RCS
OTM-197	T55~per	5/25/09 2:59		CANCELLED
OTM-198	T55~apo	5/30/09 8:58	8.675	MEA
OTM-199	T56-3d	6/3/09 18:42		CANCELLED
OTM-200	T56+3d	6/10/09 8:12	12.674	MEA
OTM-201	T56~apo	6/15/09 1:26	22.000	RCS
OTM-202	T57-3d	6/19/09 17:40		CANCELLED
OTM-203	T57+4d	6/26/09 7:09	14.335	MEA
OTM-204	T57~apo	7/1/09 0:24	9.125	RCS
OTM-205	T58-3d	7/5/09 16:38		CANCELLED
OTM-206	T58+4d	7/12/09 16:22	20.750	MEA
OTM-207	T58~apo	7/17/09 15:52	24.125	RCS
OTM-208	T59-3d	7/21/09 15:36		CANCELLED
OTM-209	T59+4d	7/28/09 15:21	37.080	MEA
OTM-210	T59~apo	8/1/09 22:35	14.750	RCS

OTM-211	T60-3d	8/6/09 22:05		CANCELLED
OTM-212	T60+4d	8/13/09 21:49		CANCELLED
OTM-213	T60~apo	8/16/09 14:04	76.475	MEA
OTM-214	T61-3d	8/22/09 3:34		CANCELLED
OTM-215	T61+4d	8/29/09 13:19	2.973	MEA
OTM-216	T61~apo	9/5/09 2:48	26.291	MEA
OTM-217	T62-3d	10/9/09 11:04	130.125	RCS
OTM-218	T62+4d	10/16/09 0:34	4.969	MEA
OTM-219	T62~apo	10/21/09 0:04	24.416	MEA
OTM-220	E7-3d	10/29/09 23:35	56.750	RCS
OTM-221	E7+3d	11/5/09 9:20	1.725	MEA
OTM-222	E7~apo	11/12/09 9:06		CANCELLED
OTM-223	E8-3d	11/17/09 22:37		CANCELLED
OTM-224	E8+2d	11/22/09 22:22	14.937	MEA
OTM-225	E8~apo	12/4/09 7:39	180.375	RCS
OTM-226	T63-3d	12/8/09 21:24		CANCELLED
OTM-227	T63+3d	12/15/09 6:55	4.184	MEA
OTM-228	T63~apo	12/20/09 6:41	13.065	MEA
OTM-229	T64-3d	12/24/09 20:26		CANCELLED
OTM-230	T64+3d	12/31/09 5:57		CANCELLED
OTM-231	T64~apo	1/5/10 5:43	47.082	MEA
OTM-232	T65-3d	1/9/10 19:29	28.375	RCS
OTM-233	T65+3d	1/16/10 4:59	13.327	MEA
OTM-234	T65~apo	1/21/10 4:45	35.530	MEA
OTM-235	T66-3d	1/25/10 18:16		CANCELLED
OTM-236	T66+3d	2/1/10 4:01	36.225	MEA
OTM-237	T66~apo	2/23/10 16:33	8.750	RCS
OTM-238	R2-3d	2/27/10 16:19		CANCELLED
OTM-239	R2+8d	3/11/10 1:34		CANCELLED
OTM-240	R2~apo	3/26/10 14:19	17.527	MEA
OTM-241	D2-5d	4/2/10 13:49	26.625	RCS
OTM-242	D2+4d	4/10/10 23:19	52.687	MEA
OTM-243	D2~apo	4/18/10 12:33	38.250	RCS
OTM-244	E9-3d	4/24/10 22:18		CANCELLED
OTM-245	E9+2d	4/29/10 11:47	33.250	MEA
OTM-246	E9~apo	5/11/10 11:01	51.545	MEA
OTM-247	T68-4d	5/16/10 4:31		CANCELLED
OTM-248	T68+3d	5/23/10 10:15	4.944	MEA
OTM-249	T68~apo	5/28/10 9:44	62.428	MEA
OTM-250	T69-3d	6/1/10 19:44	29.250	RCS
OTM-251	T69+3d	6/8/10 2:43		CANCELLED
OTM-252	T69~apo	6/13/10 8:42	7.209	MEA
OTM-253	T70-3d	6/18/10 2:11	18.875	RCS
OTM-254	T70+3d	6/24/10 7:56	5.026	MEA
OTM-255	T70~apo	6/30/10 7:40	36.208	MEA
OTM-256	T71-3d	7/4/10 1:09	14.625	RCS
OTM-257	T71+3d	7/10/10 6:53	4.829	MEA
OTM-258	T71~apo	7/18/10 6:37	39.144	MEA

OTM-259	E11-3d	8/10/10 22:35		CANCELLED
OTM-260	E11+3d	8/17/10 4:49		CANCELLED
OTM-261	E11~per	9/3/10 3:33	14.145	MEA
OTM-261a	E11~apo	9/16/10 2:47	158.750	RCS
OTM-262	T72-3d	9/21/10 12:47		CANCELLED
OTM-263	T72+3d	9/28/10 2:02		CANCELLED
OTM-264	T72~per	10/15/10 1:02	165.125	RCS
OTM-265	T73-3d	11/8/10 9:49	157.500	RCS
OTM-266	T73+3d	11/14/10 23:19		CANCELLED
OTM-267	T73~apo	11/21/10 23:05	13.100	MEA
OTM-268	E12-3d	11/27/10 16:20	55.875	RCS
OTM-269-BU	E12+1d	12/1/10 22:21	146.875	RCS
OTM-270	E12~apo	12/8/10 22:07	9.500	RCS
OTM-271	E13-3d	12/17/10 21:23		CANCELLED
OTM-272	E13+3d	12/24/10 7:09		CANCELLED
OTM-273	E13~apo	1/1/11 6:40	191.250	RCS
OTM-274	R3-3d	1/8/11 6:26	27.875	RCS
OTM-275	R3+3d	1/14/11 13:27	15.969	MEA
OTM-276	R3~per	2/1/11 4:44	13.125	RCS
OTM-277	T74-3d	2/15/11 17:46		CANCELLED
OTM-278	T74+3d	2/22/11 3:31		CANCELLED
OTM-279	T74~apo	3/2/11 10:17	89.250	RCS
OTM-280	T75-3d	4/15/11 23:48	13.125	RCS
OTM-281	T75+3d	4/22/11 6:48	35.500	RCS
OTM-282	T75~apo	4/29/11 6:18		CANCELLED
OTM-283	T76-3d	5/5/11 22:17	8.125	RCS
OTM-284	T76+3d	5/12/11 5:32	109.375	RCS
OTM-285	T76~apo	5/24/11 4:46	30.000	RCS
OTM-286	T77-3d	6/17/11 2:57	8.750	RCS
OTM-287	T77+3d	6/24/11 8:42	133.625	RCS
OTM-288	T77~per	8/22/11 15:04	83.750	RCS
OTM-288a	T77~apo	9/1/11 22:03		CANCELLED
OTM-289	T78-3d	9/9/11 3:48		CANCELLED
OTM-290	T78+3d	9/15/11 13:47		CANCELLED
OTM-291	T78~apo	9/20/11 3:17	29.419	MEA
OTM-292	E14-3d	9/28/11 13:02	26.750	RCS
OTM-294	E14+4d	10/5/11 2:17	66.125	RCS
OTM-295	E14~apo	10/10/11 2:01		CANCELLED
OTM-296	E15+3d	10/21/11 1:31		CANCELLED
OTM-297	E15~apo	10/28/11 11:17	40.250	RCS
OTM-298	E16-3d	11/3/11 0:47		CANCELLED
OTM-299	E16+3d	11/9/11 0:17	12.029	MEA
OTM-300	E16~per	11/24/11 5:18	17.175	MEA
OTM-300a	E16~apo	12/1/11 23:04	13.750	RCS
OTM-301	T79-4d	12/9/11 8:49	11.250	RCS
OTM-303	T79+4d	12/17/11 8:20	2.923	MEA
OTM-304	T79~apo	12/22/11 21:51	10.125	RCS
OTM-306	T80~apo	1/16/12 6:39	44.125	RCS

OTM-308	T81+4d	2/3/12 5:27	124.375	RCS
OTM-309	T81~apo	2/10/12 12:28		CANCELLED
OTM-310-BU	T82-2d	2/17/12 4:29	12.875	RCS
OTM-311	T82+4d	2/23/12 4:14		CANCELLED
OTM-312	T82~per	3/10/12 3:01	20.600	MEA
OTM-312a	T82~apo	3/16/12 2:46	95.625	RCS
OTM-313	E17-3d	3/24/12 16:02	10.000	RCS
OTM-314	E17+4d	3/31/12 1:32	133.750	RCS
OTM-315	E17~apo	4/5/12 8:47		CANCELLED
OTM-316	E18-3d	4/11/12 14:48	25.500	RCS
OTM-317	E18+3d	4/18/12 0:18		CANCELLED
OTM-318	E18~apo	4/24/12 7:33	1.319	MEA
OTM-319	E19-3d	4/29/12 7:17	29.500	RCS
OTM-320	E19+4d	5/6/12 6:47		CANCELLED
OTM-321	E19~apo	5/14/12 6:01	47.600	MEA
OTM-322-BU	T83-2d	5/19/12 22:16	73.500	RCS
OTM-323	T83+3d	5/25/12 5:16		CANCELLED
OTM-324	T83~apo	5/30/12 5:00	21.395	MEA
OTM-325	T84-3d	6/3/12 21:15	31.750	RCS
OTM-326	T84+3d	6/10/12 10:29	2.350	MEA
OTM-327	T84~apo	6/21/12 3:28	58.027	MEA
OTM-328	T85-3d	7/21/12 7:38	161.250	RCS
OTM-329	T85+3d	7/28/12 7:08		CANCELLED
OTM-330	T85~apo	8/7/12 6:36	24.973	MEA
OTM-331	T86-3d	9/23/12 13:47	55.750	RCS
OTM-332	T86+4d	9/30/12 3:16	179.000	RCS
OTM-333	T86~apo	10/9/12 13:01	4.332	MEA
OTM-334	T87-4d	11/9/12 18:46	55.500	RCS
OTM-335	T87+4d	11/17/12 0:31	1.418	MEA
OTM-336	T87~apo	11/22/12 0:16	28.401	MEA
OTM-337	T88-3d	11/26/12 0:01	15.125	RCS
OTM-338	T88+4d	12/2/12 23:32	22.500	RCS
OTM-339	T88~per	1/30/13 20:09	9.528	MEA
OTM-340	T89-4d	2/13/13 5:26	27.375	RCS
OTM-341	T89+7d	2/24/13 12:12	8.310	MEA
OTM-342	T89~apo	3/2/13 4:28	1.451	MEA
OTM-343	R4-3d	3/6/13 17:58		CANCELLED
OTM-344	R4+3d	3/12/13 3:44		CANCELLED
OTM-345	R4~apo	3/17/13 3:30	177.500	RCS
OTM-346	T90-4d	4/1/13 16:16	10.000	RCS
OTM-347	T90+3d	4/9/13 1:46	115.875	RCS
OTM-348	T90~per	4/30/13 8:02	2.817	MEA
OTM-349	T91-4d	5/19/13 12:46	10.250	RCS
OTM-350	T91+4d	5/27/13 6:01	44.875	RCS
OTM-351	T91~per	6/11/13 21:14	4.675	MEA
OTM-352	T92-3d	7/7/13 9:26	53.750	RCS
OTM-353-BU	T92+5d	7/15/13 2:40	1.350	MEA
OTM-354	T92~per	7/19/13 2:25	12.942	MEA

OTM-355	T93-3d	7/23/13 8:24	66.875	RCS
OTM-356	T93+4d	7/30/13 7:53		CANCELLED
OTM-357	T93~apo	8/7/13 7:22	20.625	MEA
OTM-358	T94-3d	9/9/13 5:18	30.250	RCS
OTM-359	T94+4d	9/16/13 4:47	28.625	RCS
OTM-360	T94~apo	9/30/13 4:01	66.000	RCS
OTM-361	T95-3d	10/11/13 3:15	11.875	RCS
OTM-362	T95+3d	10/17/13 13:15		CANCELLED
OTM-363	T95~apo	11/2/13 12:15	2.000	MEA
OTM-364	T96-3d	11/28/13 0:45	7.750	RCS
OTM-365	T96+4d	12/4/13 18:00		CANCELLED
OTM-366	T96~apo	12/17/13 23:32	2.142	MEA
OTM-367	T97-3d	12/29/13 22:48	110.000	RCS
OTM-368	T97+4d	1/5/14 16:03	99.375	RCS
OTM-369	T97~apo	1/25/14 14:51		CANCELLED
OTM-370	T98-3d	1/30/14 20:51	51.000	RCS
OTM-371	T98+3d	2/5/14 14:07	85.625	RCS
OTM-372	T98~apo	2/17/14 13:24	9.591	MEA
OTM-373	T99-3d	3/3/14 18:56	19.750	RCS
OTM-374	T99+4d	3/10/14 12:12		CANCELLED
OTM-375	T99~apo	3/20/14 11:28	3.046	MEA
OTM-376	T100-3d	4/4/14 10:29	50.500	RCS
OTM-377	T100+4d	4/11/14 10:00	33.375	RCS
OTM-378	T100~apo	4/24/14 9:01	32.375	RCS
OTM-379	T101-3d	5/14/14 7:46	17.250	RCS
OTM-380	T101+4d	5/21/14 7:16	13.375	RCS
OTM-381	T101~apo	6/3/14 6:15		CANCELLED
OTM-382	T102-3d	6/15/14 11:44	23.000	RCS
OTM-383	T102+4d	6/22/14 4:59	41.250	RCS
OTM-384	T102~apo	7/5/14 3:58		CANCELLED
OTM-385	T103-3d	7/17/14 9:40	29.000	RCS
OTM-386	T103+4d	7/24/14 2:40		CANCELLED
OTM-387	T103~apo	8/9/14 8:08	71.019	MEA
OTM-388	T104-3d	8/18/14 7:37	29.000	RCS
OTM-389	T104+4d	8/25/14 7:06		CANCELLED
OTM-390	T104~apo	9/7/14 6:19	7.225	MEA
OTM-391	T105-3d	9/19/14 5:33	78.875	RCS
OTM-392	T105+4d	9/26/14 5:02	63.250	RCS
OTM-393	T105~apo	10/9/14 4:16	6.034	MEA
OTM-394	T106-3d	10/21/14 3:30	32.125	RCS
OTM-395	T106+4d	10/27/14 20:44	59.750	RCS
OTM-396	T106~apo	11/22/14 1:44	200.625	RCS
OTM-397	T107-3d	12/7/14 18:30	33.750	RCS
OTM-398	T107+3d	12/14/14 0:15	164.375	RCS
OTM-399	T107~apo	12/29/14 23:31	5.473	MEA
OTM-400-BU	T108-2d	1/9/15 22:47	51.250	RCS
OTM-401	T108+3d	1/14/15 22:32	231.500	RCS
OTM-402	T108~apo	1/31/15 21:34	7.214	MEA

OTM-403	T109-3d	2/9/15 21:06	25.375	RCS
OTM-404	T109+3d	2/15/15 20:36	2.812	MEA
OTM-405	T109~apo	3/4/15 19:39	100.250	RCS
OTM-406	T110-3d	3/13/15 19:10	17.625	RCS
OTM-407	T110+3d	3/19/15 18:41		CANCELLED
OTM-408	T110~apo	4/20/15 16:29	44.000	RCS
OTM-409	T111-3d	5/4/15 15:30	11.875	RCS
OTM-410	T111+4d	5/11/15 15:00	60.250	RCS
OTM-411	T111~apo	6/8/15 13:00	58.125	RCS
OTM-412	D4-3d	6/13/15 12:45		CANCELLED
OTM-413	D4+4d	6/20/15 12:14		CANCELLED
OTM-414	D4~apo	6/26/15 11:44	70.500	RCS
OTM-415	T112-3d	7/4/15 11:13		CANCELLED
OTM-416	T112+3d	7/10/15 10:58	97.500	RCS
OTM-417	T112~apo	8/9/15 8:54	11.875	RCS
OTM-418	D5-3d	8/14/15 8:23		CANCELLED
OTM-419	D5+4d	8/21/15 8:07	56.000	RCS
OTM-420	D5~per	9/8/15 6:50		CANCELLED
OTM-421	T113-4d	9/25/15 5:48	16.375	RCS
OTM-422	T113+3d	10/2/15 5:17	1.375	MEA
OTM-423	T113~apo	10/6/15 5:02	14.949	MEA
OTM-424	E20-3d	10/11/15 4:46	32.500	RCS
OTM-426	E20~apo	10/20/15 4:15	69.500	RCS
OTM-427	E21-3d	10/25/15 4:00		CANCELLED
OTM-428	E21+1d	10/29/15 3:45		CANCELLED
OTM-429	E21~apo	11/5/15 3:29	112.125	RCS
OTM-430	T114-3d	11/10/15 2:59		CANCELLED
OTM-431	T114+3d	11/16/15 2:29	105.250	RCS
OTM-432	T114~apo	11/26/15 2:13		CANCELLED
OTM-433	E22-4d	12/16/15 0:44		CANCELLED
OTM-434	E22+3d	12/23/15 0:29		CANCELLED
OTM-435	E22~apo	12/30/15 0:00	16.974	MEA
OTM-436	T115-3d	1/12/16 23:16	34.375	RCS
OTM-437	T115+3d	1/18/16 23:01		CANCELLED
OTM-438	T115~apo	1/23/16 22:47	38.725	MEA
OTM-439-BU	T116-2d	1/29/16 22:17	9.875	RCS
OTM-440	T116+3d	2/3/16 22:03	3.270	MEA
OTM-441	T116~apo	2/8/16 21:49	4.202	MEA
OTM-442	T117-3d	2/13/16 21:34	9.375	RCS
OTM-443-BU	T117+4d	2/20/16 21:05	68.500	RCS
OTM-444	T117~apo	3/25/16 18:55	44.952	MEA
OTM-445	T118-3d	4/1/16 18:26	62.250	RCS
OTM-446	T118+3d	4/7/16 18:11	171.750	RCS
OTM-447	T118~apo	4/22/16 17:13	9.975	MEA
OTM-448-BU	T119-2d	5/4/16 16:29	11.250	RCS
OTM-449	T119+3d	5/9/16 15:59	3.079	MEA
OTM-450	T119~apo	5/22/16 15:00	23.125	RCS
OTM-451	T120-3d	6/4/16 14:15		CANCELLED

OTM-452	T120+4d	6/11/16 13:45	1.375	MEA
OTM-453	T120~apo	7/17/16 11:13	11.466	MEA
OTM-454	T121-3d	7/22/16 10:42	47.875	RCS
OTM-455	T121+3d	7/28/16 10:27	194.750	RCS
OTM-456	T121~apo	8/2/16 10:11	4.461	MEA
OTM-457	T122-3d	8/7/16 9:40		CANCELLED
OTM-458	T122+4d	8/14/16 9:10		CANCELLED
OTM-459-BU	T122~per	8/20/16 8:54	53.125	RCS
OTM-460	T123-4d	9/23/16 6:34	21.500	RCS
OTM-461	T123+3d	9/30/16 6:03		CANCELLED
OTM-462	T123~apo	10/5/16 5:48	181.250	RCS
OTM-463	T124-4d	11/10/16 3:29	12.500	RCS
OTM-464	T124+3d	11/17/16 3:14	151.000	RCS
OTM-465	T124~apo	11/22/16 2:59		CANCELLED
OTM-466	T125-3d	11/27/16 16:15		CANCELLED
OTM-467	T125+5d	12/4/16 11:58	4.461	MEA
OTM-468	T125~apo	12/24/16 0:58	239.250	RCS
OTM-468a	T125~per	2/22/17 15:49	207.375	RCS
OTM-469	T126-4d	4/18/17 18:12	58.000	RCS
OTM-470	T126+2d	4/24/17 17:52	165.250	RCS
OTM-471	Per3+1d	5/10/17 16:58	14.250	RCS
OTM-472	Per13+3d	7/15/17 12:21	153.125	RCS