

Terra Spacecraft Loss of Accurate Orbit Data Record

MISR Data for any orbit listed in these tables will most likely suffer from very poor registration. Losses of attitude knowledge occur infrequently as the result of scheduled spacecraft maneuvers. If other events, such as temporary communication failures, result in the loss of attitude data, such events will be reported here as well.

Select a year to view

2018

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 06, 2018	2018/006/00:16:56 2018/006/01:16:56 2018/006/01:39:00	Loss of Pointing Accuracy MODIS Roll Maneuver #182 Regain Pointing Accuracy	96020 96020 96021	095 095 111	-1.2122	00:07:34
Jan 26, 2018	2018/026/16:07:19 2018/026/17:07:19 2018/026/18:42:00	Loss of Pointing Accuracy Drag Makeup Maneuver #105 Regain Pointing Accuracy	96321 96321 96322	018 018 034	0.00	00:00:05
Feb 04, 2018	2018/035/16:00:55 2018/035/17:00:55 2018/035/17:47:54	Loss of Pointing Accuracy MODIS Roll Maneuver #183 Regain Pointing Accuracy	96452 96452 96453	017 017 033	-4.1472	00:09:36
Feb 22, 2018	2018/053/14:00:12 2018/053/15:06:14 2018/053/17:54:50	Loss of Pointing Accuracy Inclination Maneuver #51 Regain Pointing Accuracy	96713 96713 96715	232 232 031	0.00	00:05:20
Mar 06, 2018	2018/065/04:34:10 2018/065/05:34:10 2018/065/06:59:30	Loss of Pointing Accuracy MODIS Roll Maneuver #184 Regain Pointing Accuracy	96882 96882 96883	140 140 156	-12.8256	00:15:23
Mar 16, 2018	2018/075/12:30:00 2018/075/13:30:00 2018/075/15:45:00	Loss of Pointing Accuracy DMU #106 / Debris Avoidance #12 Regain Pointing Accuracy	97032 97033 97034	210 226 009	0.00	00:00:03
Apr 05, 2018	2018/095/02:23:36	MODIS Roll #185 CANCELLED	97317	110		00:00:00
Jun 04, 2018	2018/155/00:06:48 2018/155/01:06:48 2018/155/03:14:00	Loss of Pointing Accuracy MODIS Roll Maneuver #186 Regain Pointing Accuracy	98190 98190 98191	098 098 114	-16.5376	00:17:52
Jul 03, 2018	2018/184/04:38:39 2018/184/05:38:39 2018/184/06:40:00	Loss of Pointing Accuracy MODIS Roll Maneuver #187 Regain Pointing Accuracy	98615 98615 98616	141 141 157	-12.928	00:15:27
Aug 01, 2018	2018/213/17:27:10 2018/213/18:27:10 2018/213/19:24:29	Loss of Pointing Accuracy MODIS Roll Maneuver #188 Regain Pointing Accuracy	99045 99045 99046	031 031 047	-7.1168	00:11:34
Aug 10, 2018	2018/222/18:59:49 2018/222/19:59:39 2018/222/22:29:49	Loss of Pointing Accuracy DMU #107 / Debris Avoidance #13 Regain Pointing Accuracy	99177 99177 99179	046 046 078	0.00	00:00:03.24
Aug 31, 2018	2018/243/03:36:22 2018/243/03:59:56 2018/243/04:28:00	Loss of Pointing Accuracy MODIS Roll Maneuver #189 Regain Pointing Accuracy	99473 99473 99474	122 122 138	-6.3232	00:11:03
Sep 29, 2018	2018/272/14:08:51 2018/272/15:08:51 2018/272/15:45:00	Loss of Pointing Accuracy MODIS Roll Maneuver #190 Regain Pointing Accuracy	99902 99903 99903	229 012 012	-8.064	00:12:12
Oct 25, 2018	2018/298/14:24:02 2018/298/15:25:32 2018/298/18:40:00	Loss of Pointing Accuracy Inclination Maneuver #52 Regain Pointing Accuracy	100281 100281 100283	002 002 034	0.00	00:05:20
Oct 28, 2018	2018/301/23:35:07	Loss of Pointing Accuracy	100330	087		
Oct 29, 2018	2018/302/00:35:07 2018/302/01:15:00	MODIS Roll Maneuver #191 Regain Pointing Accuracy	100331 100331	103 103	-9.1648	00:12:56
Nov 01, 2018	2018/305/14:30:02 2018/305/15:31:36 2018/305/18:45:50	Loss of Pointing Accuracy Inclination Maneuver #53 Regain Pointing Accuracy	100383 100383 100385	003 003 035	0.00	00:05:20

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 16, 2017	2017/016/21:03:02 2017/016/22:03:02 2017/016/22:32:32	Loss of Pointing Accuracy MODIS Roll Maneuver #171 Regain Pointing Accuracy	90863 90863 90864	065 065 081	-1.0404	00:07:26
Jan 19, 2017	2017/019/14:53:10 2017/019/15:53:10 2017/019/17:17:58	Loss of Pointing Accuracy Drag Makeup Maneuver #99 Regain Pointing Accuracy	90903 90903 90904	006 006 022	0.00	00:00:03.963
Feb 15, 2017	2017/046/09:34:44 2017/046/10:34:44 2017/046/11:35:49	Loss of Pointing Accuracy MODIS Roll Maneuver #172 Regain Pointing Accuracy	91293 91293 91294	188 188 204	-8.8576	00:12:44
Feb 16, 2017	2017/047/13:35:09 2017/047/14:35:09 2017/047/17:18:51	Loss of Pointing Accuracy Inclination Maneuver #47 Regain Pointing Accuracy	91310 91310 91312	227 227 026	0.00	00:05:20
Feb 23, 2017	2017/054/13:41:20 2017/054/14:41:22 2017/054/16:52:17	Loss of Pointing Accuracy Inclination Maneuver #48 Regain Pointing Accuracy	91412 91412 91414	228 228 027	0.00	00:05:20
Mar 17, 2017	2017/076/04:44:25 2017/076/05:44:25 2017/076/06:25:52	Loss of Pointing Accuracy MODIS Roll Maneuver #173 Regain Pointing Accuracy	91727 91727 91728	142 142 158	-15.8464	00:16:33
Apr 12, 2017	2017/102/14:16:28 2017/102/15:16:29 2017/102/16:25:10	Loss of Pointing Accuracy Drag Makeup Maneuver #100 Regain Pointing Accuracy	92111 92112 92112	228 011 011	0.00	00:00:05
Apr 16, 2017	2017/106/04:52:21 2017/106/05:52:21 2017/106/06:52:37	Loss of Pointing Accuracy MODIS Roll Maneuver #174 Regain Pointing Accuracy	92164 92164 92165	144 144 160	-19.4304	00:19:47
May 25, 2017	2017/145/15:05:38 2017/145/16:05:38 2017/145/19:07:55	Loss of Pointing Accuracy Drag Makeup Maneuver #101 Regain Pointing Accuracy	92738 92738 92740	008 008 040	0.00	00:00:05.57
Jun 14, 2017	2017/165/11:11:01 2017/165/12:11:01 2017/165/13:20:47	Loss of Pointing Accuracy MODIS Roll Maneuver #175 Regain Pointing Accuracy	93027 93027 93028	205 205 221	-15.4405	00:17:08
Jun 29, 2017	2017/180/13:39:34 2017/180/14:39:34 2017/180/15:20:56	Loss of Pointing Accuracy Drag Makeup Maneuver #102 Regain Pointing Accuracy	93247 93247 93248	230 230 013	0.00	00:00:03
Jul 05, 2017	2017/186/15:57:00 2017/186/16:57:00 2017/186/17:32:51	Loss of Pointing Accuracy Drag Makeup Maneuver #103 Regain Pointing Accuracy	93335 93336 93336	007 023 023	0.00	00:00:04.61
Jul 13, 2017	2017/194/22:17:56 2017/194/23:17:56 2017/195/00:11:14	Loss of Pointing Accuracy MODIS Roll Maneuver #176 Regain Pointing Accuracy	93456 93456 93457	079 079 095	-9.4222	00:13:06
Aug 05, 2017	2017/217/19:44:20 2017/217/23:15:45 2017/218/00:47:20	Loss of Pointing Accuracy Lunar Deep Space Cal #2 (DSC 3) Regain Pointing Accuracy	93789 93791 93792	048 080 096	360 (Pitch)	00:35:54
Aug 12, 2017	2017/224/06:11:16 2017/224/07:11:16 2017/224/07:41:27	Loss of Pointing Accuracy MODIS Roll Maneuver #177 Regain Pointing Accuracy	93883 93883 93884	154 154 170	-5.5296	00:10:31
Sep 10, 2017	2017/253/12:25:04 2017/253/13:25:04 2017/253/13:54:40	Loss of Pointing Accuracy MODIS Roll Maneuver #178 Regain Pointing Accuracy	94309 94309 94310	213 213 229	-6.3744	00:11:04
Oct 19, 2017	2017/292/13:54:03 2017/292/14:54:03 2017/292/16:59:50	Loss of Pointing Accuracy Inclination Maneuver #49 Regain Pointing Accuracy	94878 94878 94880	230 230 029	0.00	00:05:20
Oct 26, 2017	2017/299/14:00:12 2017/299/15:00:12 2017/299/16:40:19	Loss of Pointing Accuracy Inclination Maneuver #50 Regain Pointing Accuracy	94980 94980 94981	231 231 014	0.00	00:05:20
Nov 8, 2017	2017/312/02:20:51 2017/312/03:20:51 2017/312/04:40:40	Loss of Pointing Accuracy MODIS Roll Maneuver #180 Regain Pointing Accuracy	95162 95163 95163	114 130 130	-8.5248	00:12:31
Dec 07, 2017	2017/341/10:03:51 2017/341/11:03:51 2017/341/11:36:38	Loss of Pointing Accuracy MODIS Roll Maneuver #181 Regain Pointing Accuracy	95589 95590 95590	189 205 205	-6.0928	00:10:54
Dec 14, 2017	2017/348/13:35:35 2017/348/14:39:36 2017/348/15:38:33	Loss of Pointing Accuracy Drag Makeup Maneuver #104 Regain Pointing Accuracy	95693 95694 95694	222 005 005	0.00	00:00:06.5

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 28, 2016	2016/028/21:10:00 2016/028/22:10:20 2016/028/23:13:34	Loss of Pointing Accuracy MODIS Roll Maneuver #160 Regain Pointing Accuracy	85708 85708 85709	067 067 083	-5.0084	00:10:10
Mar 03, 2016	2016/063/13:20:00 2016/063/14:26:42 2016/063/18:31:47	Loss of Pointing Accuracy Inclination Maneuver #44 Regain Pointing Accuracy	86213 86213 86216	225 225 040	0.00	00:05:20
Mar 11, 2016	2016/071/14:15:00 2016/071/15:15:14 2016/071/17:15:50	Loss of Pointing Accuracy Inclination Maneuver #45 Regain Pointing Accuracy	86330 86330 86332	233 233 032	0.00	00:05:20
Mar 28, 2016	2016/088/13:08:13 2016/088/14:08:13 2016/088/15:12:21	Loss of Pointing Accuracy MODIS Roll Maneuver #161 Regain Pointing Accuracy	86577 86577 86578	224 224 007	-17.3056	00:18:22
Apr 14, 2016	2016/105/13:15:39 2016/105/14:15:39 2016/105/16:37:45	Loss of Pointing Accuracy Drag Makeup Maneuver #96 Regain Pointing Accuracy	86824 86825 86826	215 231 014	0.00	00:00:08
Apr 27, 2016	2016/118/08:21:39 2016/118/09:21:39 2016/118/10:30:53	Loss of Pointing Accuracy MODIS Roll Maneuver #162 Regain Pointing Accuracy	87011 87011 87012	178 178 194	-18.4403	00:19:08
May 26, 2016	2016/147/17:45:53 2016/147/18:45:53 2016/147/20:13:59	Loss of Pointing Accuracy MODIS Roll Maneuver #163 Regain Pointing Accuracy	87439 87439 87440	036 036 052	-16.3584	00:17:44
Jun 24, 2016	2016/176/22:16:15 2016/176/23:16:15 2016/177/00:29:30	Loss of Pointing Accuracy MODIS Roll Maneuver #164 Regain Pointing Accuracy	87864 87864 87865	079 079 095	-12.544	00:15:12
Jul 24, 2016	2016/206/04:23:03 2016/206/05:28:03 2016/206/05:58:56	Loss of Pointing Accuracy MODIS Roll Maneuver #165 Regain Pointing Accuracy	88290 88290 88291	138 138 154	-7.6614	00:11:56
Aug 22, 2016	2016/235/10:41:52 2016/235/11:41:52 2016/235/12:24:44	Loss of Pointing Accuracy MODIS Roll Maneuver #166 Regain Pointing Accuracy	88716 88716 88717	197 197 213	-5.5808	00:10:34
Sep 15, 2016	2016/259/14:46:02 2016/259/15:53:02 2016/259/17:11:35	Loss of Pointing Accuracy Drag Makeup Maneuver #97 Regain Pointing Accuracy	89068 89068 89069	004 004 020	0.00	00:00:25
Sep 20, 2016	2016/264/15:13:33 2016/264/16:13:33 2016/264/16:57:29	Loss of Pointing Accuracy MODIS Roll Maneuver #167 Regain Pointing Accuracy	89141 89141 89142	007 007 023	-7.9616	00:12:08
Oct 19, 2016	2016/293/17:55:00 2016/293/19:01:59 2016/293/19:32:55	Loss of Pointing Accuracy MODIS Roll Maneuver #168 Regain Pointing Accuracy	89565 89565 89566	034 034 050	-11.4432	00:14:28
Oct 20, 2016	2016/294/13:26:00 2016/294/14:29:16 2016/294/16:26:00	Loss of Pointing Accuracy Inclination Maneuver #46 Regain Pointing Accuracy	89577 89577 89578	226 226 009	0.00	00:05:20
Nov 10, 2016	2016/315/15:16:03 2016/315/16:16:01 2016/315/16:44:36	Loss of Pointing Accuracy Drag Makeup Maneuver #98 Regain Pointing Accuracy	89884 89884 89884	012 012 012	0.00	00:00:25
Nov 18, 2016	2016/323/11:43:00 2016/323/12:43:20 2016/323/13:16:28	Loss of Pointing Accuracy MODIS Roll Maneuver #169 Regain Pointing Accuracy	89998 89999 89999	205 221 221	-6.3971	00:11:06
Dec 18, 2016	2016/353/00:20:30 2016/353/01:20:30 2016/353/02:42:46	Loss of Pointing Accuracy MODIS Roll Maneuver #170 Regain Pointing Accuracy	90428 90429 90429	095 111 111	-3.2256	00:08:59

2015

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 10, 2015	2015/010/03:47:00 2015/010/04:50:52 2015/010/05:10:25	Loss of Pointing Accuracy MODIS Roll Maneuver #147 Regain Pointing Accuracy	80120 80120 80121	131 131 147	-3.29	00:03:30
Feb 04, 2015	2015/035/14:58:40 2015/035/15:58:42 2015/035/17:45:10	Loss of Pointing Accuracy Drag Makeup Maneuver #89 Regain Pointing Accuracy	80491 80491 80492	009 009 025	0.00	00:00:08.64
Feb 08, 2015	2015/039/22:50:00	Loss of Pointing Accuracy	80554	085		
Feb 09, 2015	2015/040/00:02:39 2015/040/00:21:27	MODIS Roll Maneuver #148 Regain Pointing Accuracy	80554 80555	085 101	-9.33	00:03:30



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Feb 19, 2015	2015/050/14:23:00 2015/050/15:41:07 2015/050/17:26:08	Loss of Pointing Accuracy Inclination Maneuver #40 Regain Pointing Accuracy	80709 80709 80711	002 002 034	0.00	00:05:20
Feb 25, 2015	2015/056/13:35:00 2015/056/15:04:15 2015/056/17:32:31	Loss of Pointing Accuracy Inclination Maneuver #41 Regain Pointing Accuracy	80796 80796 80798	229 229 028	0.00	00:05:20
Mar 4, 2015	2015/063/13:26:01 2015/063/14:26:03 2015/063/15:54:54	Loss of Pointing Accuracy Drag Makeup Maneuver #90 Regain Pointing Accuracy	80897 80898 80899	214 230 013	0.00	00:00:25
Mar 10, 2015	2015/069/16:35:44 2015/069/17:35:44 2015/069/18:23:00	Loss of Pointing Accuracy MODIS Roll Maneuver #149 Regain Pointing Accuracy	80987 80987 80988	023 023 039	-15.61	00:03:30
Apr 9, 2015	2015/099/01:33:00 2015/099/02:57:41 2015/099/03:27:22	Loss of Pointing Accuracy MODIS Roll Maneuver #150 Regain Pointing Accuracy	81414 81415 81416	098 114 130	-19.85	00:03:30
Apr 22, 2015	2015/112/13:01:48 2015/112/14:01:50 2015/112/15:36:47	Loss of Pointing Accuracy Drag Makeup Maneuver #91 Regain Pointing Accuracy	81611 81611 81612	221 221 004	0.00	00:00:25
May 08, 2015	2015/128/15:40:00 2015/128/17:15:04 2015/128/18:13:10	Loss of Pointing Accuracy MODIS Roll Maneuver #151 Regain Pointing Accuracy	81845 81846 81847	004 020 036	-18.46	00:03:30
May 27, 2015	2015/147/21:21:58 2015/147/22:22:00	Loss of Pointing Accuracy DMU #92 / Debris Avoidance #9	82125 82126	057 073	0.00	00:00:25
May 28, 2015	2015/148/00:35:15	Regain Pointing Accuracy	82127	089		
June 6, 2015	2015/157/22:09:00 2015/157/23:21:10 2015/157/23:50:55	Loss of Pointing Accuracy MODIS Roll Maneuver #152 Regain Pointing Accuracy	82272 82272 82273	079 079 095	-14.73	00:03:30
Jun 16, 2015	2015/167/00:10:00 2015/167/01:10:00 2015/167/02:31:16	Loss of Pointing Accuracy DMU #93 / Debris Avoidance #10 Regain Pointing Accuracy	82404 82404 82405	094 094 110	0.00	00:00:25
Jul 06, 2015	2015/187/02:45:00 2015/187/03:51:26 2015/187/04:23:24	Loss of Pointing Accuracy MODIS Roll Maneuver #153 Regain Pointing Accuracy	82697 82697 82698	122 122 138	-9.79	00:03:30
Aug 04, 2015	2015/216/08:50:00 2015/216/09:59:16 2015/216/11:38:15	Loss of Pointing Accuracy MODIS Roll Maneuver #154 Regain Pointing Accuracy	83123 83123 83124	181 181 197	-5.84	00:03:30
Sep 02, 2015	2015/245/15:11:50 2015/245/16:11:50 2015/245/16:53:59	Loss of Pointing Accuracy MODIS Roll Maneuver #155 Regain Pointing Accuracy	83549 83549 83550	007 007 023	-6.45	00:03:30
Oct 01, 2015	2015/274/14:35:19 2015/274/15:35:19 2015/274/16:24:46	Loss of Pointing Accuracy Drag Makeup Maneuver #94 Regain Pointing Accuracy	83971 83971 83972	002 002 018	0.00	00:01:12
Oct 02, 2015	2015/275/00:40:00 2015/275/01:38:37 2015/275/03:03:50	Loss of Pointing Accuracy MODIS Roll Maneuver #156 Regain Pointing Accuracy	83977 83977 83978	098 098 114	-7.93	00:12:08
Oct 28, 2015	2015/301/13:32:00 2015/301/15:10:42 2015/301/18:16:36	Loss of Pointing Accuracy Inclination Maneuver #42 Regain Pointing Accuracy	84363 84364 84366	216 232 031	0.00	00:05:20
Oct 31, 2015	2015/304/11:40:00 2015/304/12:42:11 2015/304/13:17:20	Loss of Pointing Accuracy MODIS Roll Maneuver #157 Regain Pointing Accuracy	84406 84407 84407	205 221 221	-8.18	00:12:17
Nov 30, 2015	2015/334/03:20:00 2015/334/04:39:48 2015/334/05:49:20	Loss of Pointing Accuracy MODIS Roll Maneuver #158 Regain Pointing Accuracy	84838 84839 84839	127 143 143	-5.19	00:10:18
Dec 17, 2015	2015/351/15:20:00 2015/351/16:49:00 2015/351/18:28:38	Loss of Pointing Accuracy Drag Makeup Maneuver #95 Regain Pointing Accuracy	85093 85093 85094	013 013 029	0.00	00:00:56
Dec 29, 2015	2015/363/22:55:00 2015/363/23:48:42 2015/364/00:22:46	Loss of Pointing Accuracy MODIS Roll Maneuver #159 Regain Pointing Accuracy	85272 85272 85273	081 081 097	-2.3862	00:08:25

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Jan 21, 2014	2014/021/03:57:27 2014/021/04:57:27 2014/021/05:17:46	Loss of Pointing Accuracy MODIS Roll Maneuver #135 Regain Pointing Accuracy	74965 74965 74966	133 133 149	-6.43	00:11:07
Jan 31, 2014	2014/031/14:05:00 2014/031/15:05:00 2014/031/16:58:39	Loss of Pointing Accuracy Drag Makeup Maneuver #79 Regain Pointing Accuracy	75116 75117 75118	219 002 018	0.00	00:00:18.000
Feb 09, 2014	2014/040/11:00:00 2014/040/12:00:00 2014/040/13:07:25	Loss of Pointing Accuracy DMU #80 / Debris Avoidance #6 Regain Pointing Accuracy	75246 75246 75247	202 202 218	0.00	00:00:05.376
Feb 12, 2014	2014/043/13:13:00 2014/043/14:57:49 2014/043/16:10:11	Loss of Pointing Accuracy Inclination Maneuver #37 Regain Pointing Accuracy	75291 75291 75293	223 223 022	0.00	00:05:20
Feb 19, 2014	2014/050/09:57:00 2014/050/10:57:00 2014/050/11:22:57	Loss of Pointing Accuracy MODIS Roll Maneuver #136 Regain Pointing Accuracy	75391 75391 75392	192 192 208	-15.08	00:11:07
Feb 21, 2014	2014/052/13:02:00 2014/052/14:20:58 2014/052/14:49:24	Loss of Pointing Accuracy Inclination #38 CANCELLED Regain Pointing Accuracy	75422 75422 75423	222 222 005	0.00	00:00:00
Feb 26, 2014	2014/057/13:15:00 2014/057/14:39:31 2014/057/17:00:51	Loss of Pointing Accuracy Inclination Maneuver #38 Regain Pointing Accuracy	75495 75495 75497	225 225 024	0.00	00:05:20
Mar 14, 2014	2014/073/15:05:10 2014/073/16:05:10 2014/073/17:40:43	Loss of Pointing Accuracy Drag Makeup Maneuver #81 Regain Pointing Accuracy	75729 75729 75730	008 008 024	0.00	00:00:23.512
Mar 21, 2014	2014/080/06:45:08 2014/080/07:45:08 2014/080/08:14:30	Loss of Pointing Accuracy MODIS Roll Maneuver #137 Regain Pointing Accuracy	75826 75826 75827	162 162 178	-18.51	00:19:10
Mar 21, 2014	2014/080/12:45:00 2014/080/13:45:00 2014/080/14:59:55	Loss of Pointing Accuracy DMU #82 / Debris Avoidance #7 Regain Pointing Accuracy	75829 75830 75831	210 226 009	0.00	00:00:02.144
Apr 19, 2014	2014/109/16:05:37 2014/109/17:05:37 2014/109/17:39:17	Loss of Pointing Accuracy MODIS Roll Maneuver #138 Regain Pointing Accuracy	76254 76254 76255	020 020 036	-19.61	00:19:54
Apr 25, 2014	2014/115/14:12:00 2014/115/15:12:00 2014/115/16:42:30	Loss of Pointing Accuracy Drag Makeup Maneuver #83 Regain Pointing Accuracy	76340 76340 76341	231 231 014	0.00	00:00:22.712
May 18, 2014	2014/138/17:15:58 2014/138/18:15:58 2014/138/18:49:00	Loss of Pointing Accuracy MODIS Roll Maneuver #139 Regain Pointing Accuracy	76677 76677 76678	031 031 047	-18.41	00:19:06
June 17, 2014	2014/168/01:03:14 2014/168/02:03:29 2014/168/02:31:07	Loss of Pointing Accuracy MODIS Roll Maneuver #140 Regain Pointing Accuracy	77104 77104 77105	106 106 122	-12.47	00:15:09
July 16, 2014	2014/197/07:14:55 2014/197/08:14:59 2014/197/08:38:29	Loss of Pointing Accuracy MODIS Roll Maneuver #141 Regain Pointing Accuracy	77530 77530 77531	165 165 181	-7.53	00:11:51
July 22, 2014	2014/203/14:36:00 2014/203/15:36:00 2014/203/18:00:08	Loss of Pointing Accuracy Drag Makeup Maneuver #84 Regain Pointing Accuracy	77622 77622 77624	006 006 038	0.00	00:00:19
Aug 14, 2014	2014/226/14:55:30 2014/226/16:07:56 2014/226/17:06:20	Loss of Pointing Accuracy MODIS Roll Maneuver #142 Regain Pointing Accuracy	77957 77957 77958	007 007 023	-6.1897	00:10:58
Sep 13, 2014	2014/256/02:15:00 2014/256/03:15:58 2014/256/03:39:30	Loss of Pointing Accuracy MODIS Roll Maneuver #143 Regain Pointing Accuracy	78386 78386 78387	114 114 130	-7.7056	00:11:58
Sep 24, 2014	2014/267/14:53:20 2014/267/15:53:20 2014/267/17:25:26	Loss of Pointing Accuracy Drag Makeup Maneuver #85 Regain Pointing Accuracy	78554 78554 78555	006 006 022	0.00	00:00:25
Oct 12, 2014	2014/285/16:30:00 2014/285/17:38:25 2014/285/18:16:06	Loss of Pointing Accuracy MODIS Roll Maneuver #144 Regain Pointing Accuracy	78817 78817 78818	020 020 036	-8.5521	00:03:30
Oct 29, 2014	2014/302/13:27:00 2014/302/14:58:16 2014/302/17:56:15	Loss of Pointing Accuracy Inclination Maneuver #39 Regain Pointing Accuracy	79063 79063 79065	228 228 027	0.00	00:05:20
Nov 11, 2014	2014/315/08:30:00 2014/315/09:36:35	Loss of Pointing Accuracy MODIS Roll Maneuver #145	79249 79249	175 175	-7.37	00:03:30

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
	2014/315/10:11:15	Regain Pointing Accuracy	79250	191		
Nov 13, 2014	2014/317/14:30:00 2014/317/15:56:45 2014/317/17:25:22	Loss of Pointing Accuracy Drag Makeup Maneuver #86 Regain Pointing Accuracy	79282 79282 79283	004 004 020	0.00	00:00:25.128
Dec 11, 2014	2014/345/05:17:00 2014/345/06:27:56 2014/345/06:51:32	Loss of Pointing Accuracy MODIS Roll Maneuver #146 Regain Pointing Accuracy	79684 79684 79685	145 145 161	-3.63	00:03:30
Dec 12, 2014	2014/346/14:54:00 2014/346/15:54:00 2014/346/17:48:22	Loss of Pointing Accuracy Drag Makeup Maneuver #87 Regain Pointing Accuracy	79704 79704 79706	232 232 031	0.00	00:00:13
Dec 31, 2014	2014/365/20:25:00 2014/365/21:25:00 2014/365/22:22:17	Loss of Pointing Accuracy DMU #88 / Debris Avoidance #8 Regain Pointing Accuracy	79984 79985 79985	052 068 068	0.00	00:00:12.4

2013

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 02, 2013	2013/002/05:35:00 2013/002/06:41:16 2013/002/07:02:55	Loss of Pointing Accuracy MODIS Roll Maneuver #123 Regain Pointing Accuracy	69374 69374 69375	149 149 165	-3.76	00:12:21
Jan 31, 2013	2013/031/14:27:00 2013/031/15:54:24 2013/031/16:23:28	Loss of Pointing Accuracy MODIS Roll Maneuver #124 Regain Pointing Accuracy	69801 69802 69803	224 007 023	-10.98	00:17:09
Feb 13, 2013	2013/044/12:51:00 2013/044/14:05:24 2013/044/15:24:00	Loss of Pointing Accuracy Drag Makeup Maneuver #71 Regain Pointing Accuracy	69990 69991 69991	219 002 002	0.00	00:00:15
Feb 26, 2013	2013/057/13:53:00 2013/057/15:10:19 2013/057/17:05:25	Loss of Pointing Accuracy Inclination Maneuver #34 Regain Pointing Accuracy	70180 70180 70182	230 230 029	0.00	00:05:20
Mar 01, 2013	2013/060/14:16:00 2013/060/15:19:37 2013/060/15:53:38	Loss of Pointing Accuracy MODIS Roll Maneuver #125 Regain Pointing Accuracy	70224 70224 70225	002 002 018	-20.02	00:23:10
Mar 24, 2013	2013/083/21:29:00 2013/083/22:30:00 2013/083/23:46:40	Loss of Pointing Accuracy DMU #72 / Debris Avoidance #3 Regain Pointing Accuracy	70563 70564 70564	067 083 083	0.00	00:00:03.248
Apr 29, 2013	2013/119/20:50:00 2013/119/21:31:19 2013/119/22:02:12	Loss of Pointing Accuracy MODIS Roll Maneuver #126 Regain Pointing Accuracy	71087 71087 71088	063 063 079	-19.69	00:21:24
May 16, 2013	2013/136/14:12:00 2013/136/15:37:34 2013/136/16:59:45	Loss of Pointing Accuracy Drag Makeup Maneuver #73 Regain Pointing Accuracy	71330 71331 71332	223 006 022	0.00	00:00:18.536
May 29, 2013	2013/149/00:58:00 2013/149/01:58:22 2013/149/02:39:35	Loss of Pointing Accuracy MODIS Roll Maneuver #127 Regain Pointing Accuracy	71512 71512 71513	106 106 122	-15.67	00:20:17
Jun 27, 2013	2013/178/08:51:00 2013/178/09:49:35 2013/178/10:11:11	Loss of Pointing Accuracy MODIS Roll Maneuver #128 Regain Pointing Accuracy	71939 71939 71940	181 181 197	-9.57	00:13:13
Jul 18, 2013	2013/199/13:47:00 2013/199/14:47:00 2013/199/16:10:29	Loss of Pointing Accuracy Drag Makeup Maneuver #74 Regain Pointing Accuracy	72248 72248 72249	232 232 015	0.00	00:00:13.128
Jul 26, 2013	2013/207/18:21:00 2013/207/19:21:23 2013/207/19:42:48	Loss of Pointing Accuracy MODIS Roll Maneuver #129 Regain Pointing Accuracy	72367 72367 72368	039 039 055	-6.09	00:10:54
Aug 18, 2013	2013/230/10:06:00 2013/230/11:06:00 2013/230/12:45:01	Loss of Pointing Accuracy DMU #75 / Debris Avoidance #4 Regain Pointing Accuracy	72697 72697 72698	193 193 209	0.00	00:00:02.248
Aug 25, 2013	2013/237/07:10:29 2013/237/08:10:29 2013/237/08:32:23	Loss of Pointing Accuracy MODIS Roll Maneuver #130 Regain Pointing Accuracy	72797 72797 72798	162 162 178	-6.96	00:11:29
Sep 23, 2013	2013/266/23:13:03	Loss of Pointing Accuracy	73229	084		
Sep 24, 2013	2013/267/00:13:06 2013/267/00:36:15	MODIS Roll Maneuver #131 Regain Pointing Accuracy	73230 73230	100 100	-8.96	00:12:48
Oct 10, 2013	2013/283/13:29:00 2013/283/14:57:49	Loss of Pointing Accuracy Inclination Maneuver #35	73471 73471	228 228	0.00	00:02:02

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
	2013/283/16:34:21	Regain Pointing Accuracy	73472	011		
Oct 17, 2013	2013/290/13:20:00 2013/290/15:03:51 2013/290/17:12:54	Loss of Pointing Accuracy Inclination Maneuver #36 Regain Pointing Accuracy	73572 73573 73575	213 229 028	0.00	00:05:20
Oct 23, 2013	2013/296/16:51:15 2013/296/17:51:26 2013/296/18:13:56	Loss of Pointing Accuracy MODIS Roll Maneuver #132 Regain Pointing Accuracy	73662 73663 73663	022 038 038	-8.88	00:12:46
Oct 24, 2013	2013/297/15:27:53 2013/297/16:27:53 2013/297/18:01:37	Loss of Pointing Accuracy Drag Makeup Maneuver #76 Regain Pointing Accuracy	73676 73676 73677	013 013 029	0.00	00:00:10.608
Nov 17, 2013	2013/321/21:19:00 2013/321/22:19:00 2013/321/23:49:43	Loss of Pointing Accuracy DMU #77 / Debris Avoidance #5 Regain Pointing Accuracy	74029 74029 74030	069 069 085	0.00	00:00:09.648
Nov 22, 2013	2013/326/12:06:10 2013/326/13:06:10 2013/326/13:27:19	Loss of Pointing Accuracy MODIS Roll Maneuver #133 Regain Pointing Accuracy	74096 74097 74097	209 225 225	-5.99	00:10:50
Dec 11, 2013	2013/345/14:23:00 2013/345/15:23:00 2013/345/17:16:54	Loss of Pointing Accuracy Drag Makeup Maneuver #78 Regain Pointing Accuracy	74374 74375 74376	230 013 029	0.00	00:00:11.336
Dec 22, 2013	2013/356/08:53:47 2013/356/09:53:47 2013/356/10:36:12	Loss of Pointing Accuracy MODIS Roll Maneuver #134 Regain Pointing Accuracy	74531 74531 74532	179 179 195	-3.10	00:08:54

2012

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 13, 2012	2012/013/14:53:00 2012/013/15:59:00 2012/013/16:23:45	Loss of Pointing Accuracy MODIS Roll Maneuver #113 Regain Pointing Accuracy	64210 64210 64211	007 007 023	-6.144	00:13:56
Feb 01, 2012	2012/032/13:26:00 2012/032/14:55:00 2012/032/16:52:01	Loss of Pointing Accuracy Drag Makeup Maneuver #65 Regain Pointing Accuracy	64485 64486 64488	213 229 028	0.00	00:00:30
Feb 11, 2012	2012/042/20:45:00 2012/042/21:55:36 2012/042/22:25:16	Loss of Pointing Accuracy MODIS Roll Maneuver #114 Regain Pointing Accuracy	64636 64636 64637	066 066 082	-14.75	00:19:10
Feb 23, 2012	2012/054/14:28:00 2012/054/16:05:46 2012/054/17:44:29	Loss of Pointing Accuracy Inclination Maneuver #31 Regain Pointing Accuracy	64806 64807 64808	223 006 022	0.00	00:05:20
Apr 05, 2012	2012/096/13:35:00 2012/096/15:00:00 2012/096/16:19:44	Loss of Pointing Accuracy Drag Makeup Maneuver #66 Regain Pointing Accuracy	65418 65418 65419	229 229 012	0.00	00:00:30
May 10, 2012	2012/131/00:42:00 2012/131/01:56:00 2012/131/02:30:27	Loss of Pointing Accuracy MODIS Roll Maneuver #115 Regain Pointing Accuracy	65919 65920 65921	090 106 122	-20.02	00:23:24
Jun 06, 2012	2012/158/13:46:00 2012/158/15:03:00 2012/158/16:40:49	Loss of Pointing Accuracy Drag Makeup Maneuver #67 Regain Pointing Accuracy	66321 66321 66322	231 231 014	0.00	00:00:15
Jun 08, 2012	2012/160/11:40:00 2012/160/13:00:44 2012/160/13:39:42	Loss of Pointing Accuracy MODIS Roll Maneuver #116 Regain Pointing Accuracy	66348 66349 66350	197 213 229	-13.46	00:18:48
Jul 07, 2012	2012/189/22:47:00	Loss of Pointing Accuracy	66777	071		
Jul 08, 2012	2012/190/00:10:34 2012/190/00:38:40	MODIS Roll Maneuver #117 Regain Pointing Accuracy	66778 66779	087 103	-7.81	00:15:02
Aug 06, 2012	2012/219/13:36:00 2012/219/14:40:03 2012/219/15:20:21	Loss of Pointing Accuracy MODIS Roll Maneuver #118 Regain Pointing Accuracy	67209 67209 67210	226 226 009	-6.47	00:14:09
Aug 09, 2012	2012/222/13:47:00 2012/222/15:02:00 2012/222/16:00:22	Loss of Pointing Accuracy Drag Makeup Maneuver #68 Regain Pointing Accuracy	67253 67253 67254	231 231 014	0.00	00:00:15
Sep 05, 2012	2012/249/07:36:00 2012/249/08:24:07 2012/249/09:10:35	Loss of Pointing Accuracy MODIS Roll Maneuver #11 Regain Pointing Accuracy	67642 67642 67643	164 164 180	-8.78	00:15:42
Oct 05, 2012	2012/279/01:00:43 2012/279/02:03:47	Loss of Pointing Accuracy MODIS Roll Maneuver #120	68075 68076	102 118	-10.52	00:17:50



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
	2012/279/02:45:48	Regain Pointing Accuracy	68076	118		
Oct 05, 2012	2012/279/13:46:00 2012/279/15:09:46 2012/279/16:45:56	Loss of Pointing Accuracy Inclination Maneuver #32 Regain Pointing Accuracy	68083 68083 68084	230 230 013	0.00	00:05:20
Oct 12, 2012	2012/286/13:56:00 2012/286/15:15:53 2012/286/17:10:24	Loss of Pointing Accuracy Inclination Maneuver #33 Regain Pointing Accuracy	68185 68185 68187	231 231 030	0.00	00:05:20
Nov 03, 2012	2012/308/20:15:00 2012/308/21:20:52 2012/308/21:47:59	Loss of Pointing Accuracy MODIS Roll Maneuver #121 Regain Pointing Accuracy	68509 68510 68510	056 072 072	-8.24	00:15:20
Nov 09, 2012	2012/314/13:10:00 2012/314/14:18:34 2012/314/15:53:20	Loss of Pointing Accuracy Drag Makeup Maneuver #69 Regain Pointing Accuracy	68592 68593 68594	219 002 018	0.00	00:00:11.592
Dec 03, 2012	2012/338/13:53:00 2012/338/14:54:46 2012/338/15:17:12	Loss of Pointing Accuracy MODIS Roll Maneuver #122 Regain Pointing Accuracy	68942 68943 68943	227 010 010	-4.10	00:12:34
Dec 19, 2012	2012/354/17:06:00 2012/354/18:19:42 2012/354/19:25:26	Loss of Pointing Accuracy Drag Makeup Maneuver #70 Regain Pointing Accuracy	69177 69178 69178	026 042 042	0.00	00:00:11

2011

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 19, 2011	2011/019/16:10:00 2011/019/17:39:00 2011/019/19:03:22	Loss of Pointing Accuracy Drag Makeup Maneuver #60 Regain Pointing Accuracy	58983 58983 58984	022 022 038	0.00	00:00:08.2
Jan 23, 2011	2011/023/20:42:00 2011/023/21:58:55 2011/023/22:24:59	Loss of Pointing Accuracy MODIS Roll Maneuver #104 Regain Pointing Accuracy	59044 59044 59045	066 066 082	-8.8467	00:15:44
Feb 17, 2011	2011/048/14:12:00 2011/048/15:34:37 2011/048/17:31:31	Loss of Pointing Accuracy Inclination Maneuver #28 Regain Pointing Accuracy	59404 59404 59406	001 001 033	0.00	00:05:20
Apr 06, 2011	2011/096/14:00:00 2011/096/15:30:00 2011/096/17:05:06	Loss of Pointing Accuracy Drag Makeup Maneuver #61 Regain Pointing Accuracy	60103 60103 60104	001 001 017	0.00	00:00:05
May 21, 2011	2011/141/16:30:50 2011/141/17:53:28 2011/141/18:28:29	Loss of Pointing Accuracy MODIS Roll Maneuver #105 Regain Pointing Accuracy	60759 60760 60761	012 028 044	-18.7904	00:22:22
Jun 15, 2011	2011/166/14:55:00 2011/166/16:15:00 2011/166/17:59:04	Loss of Pointing Accuracy Drag Makeup Maneuver #62 Regain Pointing Accuracy	61122 61123 61124	228 011 027	0.00	00:00:05
Jun 20, 2011	2011/171/06:48:22 2011/171/08:18:32 2011/171/08:44:45	Loss of Pointing Accuracy MODIS Roll Maneuver #106 Regain Pointing Accuracy	61190 61191 61192	151 167 183	-17.37	00:17:24
Jul 19, 2011	2011/200/21:27:00 2011/200/22:48:13 2011/200/23:11:26	Loss of Pointing Accuracy MODIS Roll Maneuver #107 Regain Pointing Accuracy	61622 61622 61623	073 073 089	-6.96	00:14:28
Aug 18, 2011	2011/230/15:35:00 2011/230/16:35:08 2011/230/16:59:37	Loss of Pointing Accuracy MODIS Roll Maneuver #108 Regain Pointing Accuracy	62055 62055 62056	011 011 027	-7.93	00:14:37
Sep 17, 2011	2011/260/09:16:00 2011/260/10:16:52 2011/260/10:55:51	Loss of Pointing Accuracy MODIS Roll Maneuver #109 Regain Pointing Accuracy	62488 62489 62489	182 198 198	-11.05	00:17:12
Sep 22, 2011	2011/265/14:06:00 2011/265/15:16:00 2011/265/17:00:31	Loss of Pointing Accuracy Drag Makeup Maneuver #63 Regain Pointing Accuracy	62564 62564 62565	233 233 016	0.00	00:00:13
Oct 17, 2011	2011/290/00:55:00 2011/290/02:17:02 2011/290/02:55:05	Loss of Pointing Accuracy MODIS Roll Maneuver #110 Regain Pointing Accuracy	62920 62921 62921	104 120 120	-11.34	00:18:30
Oct 19, 2011	2011/292/13:24:00 2011/292/15:09:53 2011/292/16:50:00	Loss of Pointing Accuracy Inclination Maneuver #29 Regain Pointing Accuracy	62956 62957 62958	214 230 013	0.00	00:05:20
Oct 26, 2011	2011/299/13:56:00 2011/299/15:16:06 2011/299/16:55:38	Loss of Pointing Accuracy Inclination Maneuver #30 Regain Pointing Accuracy	63059 63059 63060	231 231 014	0.00	00:05:20



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Nov 15, 2011	2011/319/15:07:00 2011/319/16:35:07 2011/319/17:25:09	Loss of Pointing Accuracy MODIS Roll Maneuver #111 Regain Pointing Accuracy	63351 63352 63352	010 026 026	-7.66	00:18:30
Nov 22, 2011	2011/326/13:21:00 2011/326/14:50:00 2011/326/16:33:41	Loss of Pointing Accuracy Drag Makeup Maneuver #64 Regain Pointing Accuracy	63451 63452 63453	212 228 011	0.00	00:00:30
Dec 15, 2011	2011/349/03:53:00 2011/349/05:10:51 2011/349/05:54:31	Loss of Pointing Accuracy MODIS Roll Maneuver #112 Regain Pointing Accuracy	63781 63781 63782	133 133 149	-3.33	00:11:34

2010

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 04, 2010	2010/004/15:57:00 2010/004/17:12:14 2010/004/18:00:31	Loss of Pointing Accuracy MODIS Roll Maneuver #95 Regain Pointing Accuracy	53449 53449 53450	018 018 034	-3.69	00:12:18
Jan 22, 2010	2010/022/14:07:00 2010/022/15:35:00 2010/022/16:51:45	Loss of Pointing Accuracy Drag Makeup Maneuver #57 Regain Pointing Accuracy	53710 53711 53711	233 016 016	0.00	00:00:06.7
Feb 02, 2010	2010/033/20:11:00 2010/033/21:27:58 2010/033/21:58:25	Loss of Pointing Accuracy MODIS Roll Maneuver #96 Regain Pointing Accuracy	53874 53874 53875	061 061 077	-13.85	00:19:04
Feb 24, 2010	2010/055/14:32:00 2010/055/16:12:09 2010/055/17:56:38	Loss of Pointing Accuracy Inclination Maneuver #25 Regain Pointing Accuracy	54190 54191 54193	224 007 039	0.00	00:05:20
Apr 28, 2010	2010/118/12:24:00 2010/118/13:37:10 2010/118/15:13:41	Loss of Pointing Accuracy Drag Makeup Maneuver #58 Regain Pointing Accuracy	55107 55107 55108	217 217 233	0.00	00:00:07.7
Jun 01, 2010	2010/152/15:30:00 2010/152/16:28:08 2010/152/18:03:09	Loss of Pointing Accuracy MODIS Roll Maneuver #97 Regain Pointing Accuracy	55604 55604 55605	014 014 030	-17.54	00:21:32
Jul 30, 2010	2010/211/23:32:00	Loss of Pointing Accuracy	56468	091		
Jul 31, 2010	2010/212/00:43:52 2010/212/01:05:56	MODIS Roll Maneuver #98 Regain Pointing Accuracy	56468 56469	091 107	-6.89	00:14:26
Aug 11, 2010	2010/223/13:37:29 2010/223/15:11:00 2010/223/17:47:07	Loss of Pointing Accuracy Drag Makeup Maneuver #59 Regain Pointing Accuracy	56636 56637 56639	216 232 031	0.00	00:00:05.5
Aug 29, 2010	2010/241/15:47:00 2010/241/16:50:23 2010/241/17:40:44	Loss of Pointing Accuracy MODIS Roll Maneuver #99 Regain Pointing Accuracy	56900 56900 56901	013 013 029	-9.86	00:15:04
Sep 28, 2010	2010/271/05:54:00 2010/271/07:13:39 2010/271/07:42:38	Loss of Pointing Accuracy MODIS Roll Maneuver #100 Regain Pointing Accuracy	57331 57332 57332	152 168 168	-12.47	00:18:08
Oct 21, 2010	2010/294/13:45:39 2010/294/15:28:26 2010/294/17:46:18	Loss of Pointing Accuracy Inclination Maneuver #26 Regain Pointing Accuracy	57670 57671 57673	217 233 233	0.00	00:05:20
Oct 27, 2010	2010/300/17:04:00 2010/300/18:16:52 2010/300/19:28:17	Loss of Pointing Accuracy MODIS Roll Maneuver #101 Regain Pointing Accuracy	57760 57761 57761	026 042 042	-11.09	00:15:54
Oct 28, 2010	2010/301/14:03:00 2010/301/15:34:33 2010/301/17:48:29	Loss of Pointing Accuracy Inclination Maneuver #27 Regain Pointing Accuracy	57773 57773 57775	001 001 033	0.00	00:05:20
Nov 26, 2010	2010/330/02:17:00 2010/330/03:38:32 2010/330/04:18:19	Loss of Pointing Accuracy MODIS Roll Maneuver #102 Regain Pointing Accuracy	58188 58189 58189	117 133 133	-5.89	00:13:46
Dec 25, 2010	2010/359/10:04:00 2010/359/11:09:45 2010/359/11:36:13	Loss of Pointing Accuracy MODIS Roll Maneuver #103 Regain Pointing Accuracy	58615 58615 58616	192 192 208	-3.299	00:16:35

2009

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 15, 2009	2009/015/04:22:00 2009/015/05:48:10	Loss of Pointing Accuracy MODIS Roll Maneuver #87	48286 48287	125 141	-5.12	00:13:14



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
	2009/015/06:26:20	Regain Pointing Accuracy	48288	157		
Feb 13, 2009	2009/044/13:54:00 2009/044/15:04:29 2009/044/15:48:56	Loss of Pointing Accuracy MODIS Roll Maneuver #88 Regain Pointing Accuracy	48715 48715 48716	232 232 015	-16.74	00:18:42
Feb 26, 2009	2009/057/16:17:00 2009/057/17:39:04 2009/057/19:20:21	Loss of Pointing Accuracy Drag Makeup Maneuver #55 Regain Pointing Accuracy	48905 48906 48907	010 026 042	0.00	00:00:02.8
Jun 12, 2009	2009/163/17:00:00 2009/163/18:21:22 2009/163/19:32:34	Loss of Pointing Accuracy MODIS Roll Maneuver #89 Regain Pointing Accuracy	50449 50450 50452	016 032 048	-15.54	00:20:12
Jul 09, 2009	2009/190/14:25:00 2009/190/15:46:44 2009/190/17:36:29	Loss of Pointing Accuracy Drag Makeup Maneuver #56 Regain Pointing Accuracy	50841 50842 50843	230 013 029	0.00	00:00:06.7
Jul 12, 2009	2009/193/07:47:00 2009/193/08:50:11 2009/193/09:14:35	Loss of Pointing Accuracy MODIS Roll Maneuver #90 Regain Pointing Accuracy	50881 50881 50882	171 171 187	-7.86	00:15:04
Aug 10, 2009	2009/222/20:20:00 2009/222/21:43:05 2009/222/22:28:12	Loss of Pointing Accuracy MODIS Roll Maneuver #91 Regain Pointing Accuracy	51311 51311 51312	061 061 077	-7.22	00:14:38
Sep 09, 2009	2009/252/05:49:00 2009/252/07:11:32 2009/252/07:49:43	Loss of Pointing Accuracy MODIS Roll Maneuver #92 Regain Pointing Accuracy	51739 51739 51740	152 152 168	-12.06	00:17:53
Oct 07, 2009	2009/280/14:33:00 2009/280/15:47:19 2009/280/17:20:33	Loss of Pointing Accuracy Inclination Maneuver #23 Regain Pointing Accuracy	52152 52152 52153	003 003 019	0.00	00:05:20
Oct 08, 2009	2009/281/15:36:00 2009/281/16:37:14 2009/281/17:17:07	Loss of Pointing Accuracy MODIS Roll Maneuver #93 Regain Pointing Accuracy	52167 52168 52168	010 026 026	-13.82	00:19:02
Oct 13, 2009	2009/286/13:55:00 2009/286/15:10:12 2009/286/17:18:00	Loss of Pointing Accuracy Inclination Maneuver #24 Regain Pointing Accuracy	52239 52239 52241	230 230 029	0.00	00:05:20
Dec 06, 2009	2009/340/07:04:00 2009/340/08:03:58 2009/340/09:07:02	Loss of Pointing Accuracy MODIS Roll Maneuver #94 Regain Pointing Accuracy	53021 53022 53022	160 176 176	-4.51	00:12:50

2008

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 27, 2008	2008/026/23:54:00 2008/027/00:59:40 2008/027/01:33:44	Loss of Pointing Accuracy MODIS Roll Maneuver #77 Regain Pointing Accuracy	43129 43129 43130	095 095 111	-7.96	00:15:08
Feb 25, 2008	2008/056/14:03:00 2008/056/15:11:03 2008/056/15:45:14	Loss of Pointing Accuracy MODIS Roll Maneuver #78 Regain Pointing Accuracy	43560 43560 43561	001 001 017	-19.86	00:23:04
Feb 27, 2008	2008/058/14:00:00 2008/058/15:22:36 2008/058/17:18:49	Loss of Pointing Accuracy Inclination Maneuver #20 Regain Pointing Accuracy	43589 43589 53591	232 232 031	0.00	00:05:20
Mar 24, 2008	2008/084/15:05:00 2008/084/16:06:27 2008/084/17:47:54	Loss of Pointing Accuracy Drag Makeup Maneuver #52 Regain Pointing Accuracy	43968 43969 43969	005 021 021	0.00	~00:00:10
May 25, 2008	2008/146/14:29:00 2008/146/15:39:59 2008/146/16:49:10	Loss of Pointing Accuracy MODIS Roll Maneuver #79 Regain Pointing Accuracy	44870 44871 44872	224 007 023	-19.02	00:22:30
June 23, 2008	2008/175/12:28:00 2008/175/13:38:37 2008/175/14:36:16	Loss of Pointing Accuracy MODIS Roll Maneuver #80 Regain Pointing Accuracy	45292 45292 45293	219 219 002	-13.34	00:18:44
July 22, 2008	2008/204/22:00:00 2008/204/23:12:59 2008/204/23:39:13	Loss of Pointing Accuracy MODIS Roll Maneuver #81 Regain Pointing Accuracy	45720 45720 45721	077 077 077	-6.70	00:14:18
July 31, 2008	2008/213/17:31:00 2008/213/18:35:00 2008/213/19:29:09	Loss of Pointing Accuracy Drag Makeup Maneuver #53 Regain Pointing Accuracy	45848 43969 43969	028 021 044	0.00	00:00:04
Aug 21, 2008	2008/234/05:43:00 2008/234/07:08:10 2008/234/07:52:36	Loss of Pointing Accuracy MODIS Roll Maneuver #82 Regain Pointing Accuracy	46147 46147 46148	077 152 093	-8.68	00:15:38



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Sep 19, 2008	2008/263/10:35:00 2008/263/23:12:59 2008/263/12:17:00	Loss of Pointing Accuracy MODIS Roll Maneuver #83 Regain Pointing Accuracy	46572 46573 46573	195 211 211	-14.31	00:19:22
Oct 16, 2008	2008/290/16:27:00 2008/290/17:51:13 2008/290/20:05:58	Loss of Pointing Accuracy Inclination Maneuver #21 Regain Pointing Accuracy	46969 46969 46972	023 023 071	0.00	00:05:20
Oct 18, 2008	2008/292/18:17:00 2008/292/19:24:48 2008/292/20:04:10	Loss of Pointing Accuracy MODIS Roll Maneuver #84 Regain Pointing Accuracy	46999 46999 47000	037 037 053	-14.90	00:20:16
Oct 23, 2008	2008/297/14:59:00 2008/297/16:18:27 2008/297/18:09:15	Loss of Pointing Accuracy Inclination Maneuver #22 Regain Pointing Accuracy	47070 47070 47072	008 008 040	0.00	00:05:20

2007

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 08, 2007	2007/008/04:38:33 2007/008/06:08:33 2007/008/07:49:27	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	37540 37540 37541	143 143 159	-1.64	00:10:54
Feb 07, 2007	2007/038/01:18:12 2007/038/02:48:12 2007/038/04:35:32	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	37974 37975 37976	097 113 169	-11.24	00:17:20
May 23, 2007	2007/143/13:09:05 2007/143/14:39:05 2007/143/17:09:13	Loss of Pointing Accuracy Drag Makeup Maneuver Regain Pointing Accuracy	39511 39512 39513	224 007 023	0.00	~00:00:08
June 05, 2007	2007/156/18:37:33 2007/156/20:07:33 2007/156/22:00:15	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	39703 39704 39705	034 050 066	-19.30	00:17:16
July 04, 2007	2007/185/21:32:54 2007/185/23:02:54 2007/186/00:50:10	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	40128 40128 40129	077 077 093	-11.14	00:17:16
Aug 03, 2007	2007/215/03:51:18 2007/215/05:21:18 2007/215/07:05:08	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	40553 40554 40555	120 136 152	-6.016	00:13:50
Sept 01, 2007	2007/244/10:06:09 2007/244/11:36:09 2007/244/13:22:35	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	40980 40980 40982	195 195 227	-9.907	00:16:26
Sept 30, 2007	2007/273/16:14:25 2007/273/17:44:25 2007/273/19:34:07	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	41406 41407 41408	021 037 053	-14.796	00:19:42
Oct 10, 2007	2007/283/12:45:26 2007/283/14:45:26 2007/283/17:46:44	Loss of Pointing Accuracy Inclination Maneuver #18 Regain Pointing Accuracy	41549 41550 41552	212 228 027	0.00	00:31:17
Oct 16, 2007	2007/289/13:47:14 2007/289/15:47:14 2007/289/18:49:11	Loss of Pointing Accuracy Inclination Maneuver #19 Regain Pointing Accuracy	41637 41638 41639	222 005 037	0.00	00:31:57
Oct 18, 2007	2007/291/13:34:54 2007/291/15:34:54 2007/291/18:37:05	Loss of Pointing Accuracy Inclination Mnv'r Bkup for 18/19 Regain Pointing Accuracy	41666 41667 41669	220 003 035	0.00	00:32:11
Oct 30, 2007	2007/303/01:46:00 2007/303/03:09:33 2007/303/04:27:06	Loss of Pointing Accuracy MODIS Roll Maneuver #74 Regain Pointing Accuracy	41834 41835 41835	112 128 128	-14.20	00:19:18
Nov 08, 2007	2007/312/16:33:00 2007/312/17:34:00 2007/312/18:50:22	Loss of Pointing Accuracy Drag Make-up Maneuver #51 Regain Pointing Accuracy	41974 41974 41975	022 022 038	0.00	00:00:11.56
Nov 28, 2007	2007/332/12:41:37 2007/332/14:11:37 2007/332/15:57:06	Loss of Pointing Accuracy MODIS Roll Maneuver #75 Regain Pointing Accuracy	42263 42264 42265	219 002 018	-8.47	00:15:29

2006

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 18, 2006	2006/018/21:29:10 2006/018/22:52:10 2006/018/01:29:10	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	32380 32381 32382	065 081 097		~12 seconds



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 19, 2006	2006/019/11:18:18 2006/019/12:48:18 2006/019/14:29:25	Loss of Pointing Accuracy Roll Maneuver Regain of Pointing Accuracy	32388 32389 32390	193 209 225	-1.939	11:07 mm:ss
Feb 17, 2006	2006/048/22:10:04 2006/048/23:40:04 2006/048/01:29:38	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	32817 32818 32819	067 083 099		19:34 mm:ss
May 24, 2006	2006/144/16:13:48 2006/144/17:36:48 2006/144/20:13:16	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	34212 34213 34214	019 035 051		~7.9 seconds
Jul 15, 2006	2006/196/02:00:52 2006/196/03:30:52 2006/196/05:15:56	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	34960 34961 34962	104 120 136		15:04 mm:ss
Aug 13, 2006	2006/225/06:40:36 2006/225/08:10:36 2006/225/09:54:50	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	35386 35386 35387	163 163 179	-6.579	14:14 mm:ss
Sep 11, 2006	2006/254/16:50:00 2006/254/17:41:48 2006/254/19:29:06	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	35814 35815 35816	021 037 053	-11.10	17:18 mm:ss
Oct 11, 2006	2006/284/01:36:54 2006/284/03:06:54 2006/284/04:57:02	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	36242 36243 36244	112 128 144		20:08 mm:ss
Oct 12, 2006	2006/285/16:02:28 2006/285/17:06:16 2006/285/19:43:25	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	36265 36266 36267	014 030 046		~9 seconds
Oct 17, 2006	2006/290/14:20:00 2006/290/15:50:00 2006/290/18:20:09	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	36337 36338 36339	001 017 033		~9 seconds
Nov 14, 2006	2006/318/13:40:37 2006/318/15:46:37 2006/318/18:51:18	Loss of Pointing Accuracy Inclination Maneuver #16 Regain of Pointing Accuracy	36744 36745 36747	222 005 037		
Nov 21, 2006	2006/325/13:46:51 2006/325/15:52:51 2006/325/18:58:00	Loss of Pointing Accuracy Inclination Maneuver #17 Regain of Pointing Accuracy	36846 36847 36848	223 006 038		
Dec 06, 2006	2006/340/17:01:00 2006/340/18:24:00 2006/340/17:01:00	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	37066 37067 37069	015 031 063		~00:08 mm:ss
Dec 09, 2006	2006/343/08:33:00 2006/343/09:26:48 2006/343/11:10:53	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	37105 37106 37107	173 189 205	-6.37	14:05 mm:ss

2005

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 30, 2005	2005/030/06:31:14 2005/030/08:01:14 2005/030/09:44:22	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	27230 27231 27232	147 163 179	-4.94	
Cancelled	2005/046/17:55:00 2005/046/19:43:18 2005/046/21:30:00	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	27470 27471 27473	026 042 074		
Feb 22, 2005	2005/053/19:49:30 2005/053/21:19:29 2005/053/23:49:30	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	27573 27574 27576	043 059 091		
Feb 28, 2005	2005/059/17:23:17 2005/059/18:40:00 2005/059/20:44:27	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Of Pointing Accuracy	27659 27660 27661	021 037 053	-16.99	
Jun 09, 2005	2005/160/17:45:11 2005/160/19:30:11 2005/160/22:20:30	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	29130 29131 29133	024 040 072		
Jun 26, 2005	2005/177/00:13:52 2005/177/01:43:52 2005/177/03:34:08	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	29367 29368 29369	088 104 120	-15.67	
Jul 25, 2005	2005/206/06:39:24 2005/206/07:59:24 2005/206/09:44:04	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	29793 29794 29795	147 163 179	-7.24	



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Aug 23, 2005	2005/235/16:05:45 2005/235/17:35:45 2005/235/19:20:07	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	30222 30222 30224	021 021 053		
Nov 20, 2005	2005/324/14:33:01 2005/324/16:03:01 2005/324/17:50:41	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	31517 31518 31519	004 020 036	-11.75	
Dec 07, 2005	2005/341/12:45:42 2005/341/14:58:13 2005/341/17:50:24	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	31763 31764 31766	226 228 027		
Dec 13, 2005	2005/347/12:47:33 2005/347/16:00:04 2005/347/18:53:13	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	31851 31852 31854	222 005 037		
Dec 15, 2005	2005/349/13:35:09 2005/349/15:47:40 2005/349/18:39:49	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	31880 31881 31883	220 003 035		
Dec 20, 2005	2005/354/11:28:00 2005/354/12:55:44 2005/354/13:49:55	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	31952 31953 31953	207 223 223	-3.43	

2004

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 28, 2004	2004/028/16:34:02 2004/028/18:11:02 2004/028/20:41:17	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	21877 21878 21880	010 026 058		15 secs
Feb 10, 2004	2004/041/19:09:00 2004/041/20:39:00 2004/041/22:23:52	Loss of Pointing Accuracy MODIS Roll Maneuver, NOTE: The Feb.10th maneuver was during s/c day Regain of Pointing Accuracy	22068 22069 22070	037 053 069	-7.552	14:52mm:ss
Mar 10, 2004	2004/077/21:49:12 2004/077/21:49:12 2004/077/21:49:12	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	22492 22493 22495	064 080 112	-19.43	22:48mm:ss
Cancelled	2004/084/17:47:43 2004/084/19:17:43 2004/084/21:47:58	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	22694 22695 22696	034 050 066		15 secs
Apr 06, 2004	2004/097/17:00:34 2004/097/18:30:34 2004/097/21:00:34	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	22883 22884 22885	029 045 061		
Jun 24, 2004	2004/176/18:23:xx 2004/176/19:24:18 2004/176/20:07:xx	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	24034 24034 24036	038 038 070		6 secs
Jul 06, 2004	2004/188/10:08:50 2004/188/11:08:50 2004/188/12:27:05	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	24204 24204 24205	175 175 211	-12.576	
Aug 04, 2004	2004/217/19:13:33 2004/217/20:43:33 2004/217/22:24:33	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	24631 24632 24633	037 053 069	-6.016	
Aug 25, 2004	2004/238/19:50:00 2004/238/21:20:00 2004/238/23:50:00	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	24938 24939 24940	056 072 088		
Cancelled	2004/239/17:09:27 2004/239/18:45:27 2004/239/21:09:27	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	24951 24952 24953	031 047 063		
Sep 03, 2004	2004/247/09:44:52 2004/247/11:14:52 2004/247/12:59:58	Loss Of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	25063 25063 25065	192 192 224	-7.885	
Oct 03, 2004	2004/277/01:47:46 2004/277/03:17:46 2004/277/05:06:38	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	25495 25496 25497	114 130 146	-13.568	
Oct 26, 2004	2004/300/12:24:27 2004/300/14:24:27 2004/300/16:54:27	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	25836 25837 25839	211 227 026		
Oct 28, 2004	2004/302/12:12:13 2004/302/14:12:13 2004/302/16:42:13	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	25865 25866 25868	209 225 024		

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Nov 02, 2004	2004/307/22:45:40 2004/307/00:15:40 2004/307/02:08:14	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	25930 25930 25932	084 084 116	-14.157	
Nov 04, 2004	2004/309/12:18:18 2004/309/14:31:47 2004/309/17:41:21	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	25967 25968 25970	210 226 025		
Nov 23, 2004	2004/328/17:45:23 2004/328/19:15:23 2004/328/21:45:40	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	26247 26248 26249	030 046 062		
Dec 01, 2004	2004/336/19:48:43 2004/336/21:12:43 2004/336/22:58:21	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	26365 26366 26367	054 070 086	-8.704	
Dec 31, 2004	2004/366/13:13:58 2004/366/14:43:58 2004/366/16:24:41	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	26798 26799 26800	225 008 024	-1.397	

2003

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 07, 2003	2003/007/17:41:00 2003/007/18:41:00 2003/007/21:11:20	S/C Loss of Pointing Accuracy Drag Makeup Maneuver S/C Regain of Pointing Accuracy	16257 16258 16259	028 044 060		00:20mm:ss
Jan 15, 2003	2003/015/11:26:01 2003/015/12:56:01 2003/015/14:35:58 2003/015/16:14:40 2003/015/17:52:29 2003/015/19:30:18 2003/015/21:08:07 2003/015/22:49:39 2003/015/10:29:53	Loss of Pointing Accuracy MODIS Slew #1 MODIS Slew #2 MODIS Slew #3 MODIS Slew #4 MODIS Slew #5 MODIS Slew #6 Regain of Pointing Accuracy Loss of Pointing Accuracy	16370 16371 16372 16373 16374 16375 16376 16377 16384	205 221 004 020 036 052 068 084 196	N/A +4.51 +1.28 -1.89 -5.12 -8.32 -11.52 N/A N/A	N/A 02:00mm:ss 01:12mm:ss 01:27mm:ss 02:32mm:ss 03:36mm:ss 04:40mm:ss N/A N/A
Jan 16, 2003	2003/016/11:59:53 2003/016/13:39:50 2003/016/15:19:31 2003/016/16:57:20 2003/016/18:35:09 2003/016/20:12:58 2003/016/22:05:24	MODIS Slew #1 MODIS Slew #2 MODIS Slew #3 MODIS Slew #4 MODIS Slew #5 MODIS Slew #6 Regain of Pointing Accuracy	16385 16386 16387 16388 16389 16390 16391	212 228 011 027 043 059 075	+6.02 +2.82 -0.38 -3.58 -6.81 -10.01 N/A	02:50mm:ss 01:46mm:ss 00:39mm:ss 02:02mm:ss 03:06mm:ss 04:10mm:ss N/A
Jan 22, 2003	2003/022/14:24:12 2003/022/15:54:12 2003/022/17:34:38	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	16473 16474 16475	222 005 021	-1.04	10:26mm:ss
Feb 21, 2003	2003/052/23:32:38 2003/052/01:02:38 2003/052/02:49:22	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	16901 16902 16903	080 096 112	-10.37	16:44mm:ss
Mar 06, 2003	2003/065/17:27:00 2003/065/19:17:00 2003/065/21:29:00	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	17102 17103 17104	034 050 066		00:15mm:ss
Mar 22, 2003	2003/081/06:00:53 2003/081/07:00:53 2003/081/08:54:18	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	17328 17328 17329	155 155 171	-19.99	23:25mm:ss
Apr 30, 2003	2003/120/18:15:00 2003/120/19:15:00 2003/120/21:46:00	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	17903 17904 17905	035 051 067		00:20mm:ss
Jun 18, 2003	2003/169/12:52:48 2003/169/14:22:48 2003/169/16:08:02	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	18613 18614 18615	211 227 010	-19.2	15:14mm:ss
Jul 08, 2003	2003/189/13:57:35 2003/189/15:57:35 2003/189/18:57:35	POSTPONED Loss of Pointing Accuracy POSTPONED Inclination Maneuver POSTPONED Regain of Pointing Accuracy	18905 18906 18908	223 006 038		30:00mm:ss
Jul 10, 2003	2003/191/13:15:00 2003/191/15:45:12 2003/191/18:15:12	ABORTED Loss of Pointing Accuracy ABORTED Inclination Maneuver dur ABORTED Regain of Pointing Accuracy	18934 18936 18937	221 020 036		30:00mm:ss
Jul 16, 2003	2003/197/12:36:00 2003/197/12:36:00 2003/197/12:36:00	POSTPONED Loss of Pointing Accuracy POSTPONED Inclination Maneuver POSTPONED Regain of Pointing Accuracy	19021 19022 19024	215 231 030		
Jul 18, 2003	2003/199/01:39:33 2003/199/03:09:33 2003/199/04:56:19	Loss of Pointing Accuracy MODIS Roll Maneuver Regain of Pointing Accuracy	19043 19044 19045	101 117 133	-10.3	



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jul 22, 2003	2003/203/20:00:54 2003/203/21:00:54 2003/203/23:31:14	Loss of Pointing Accuracy Drag Makeup Maneuver Regain of Pointing Accuracy	19113 19113 19115	056 056 088		00:20mm:ss
Jul 29, 2003	2003/210/12:07:00 2003/210/14:37:40 2003/210/17:59:45	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	19210 19211 19213	224 007 039		50:00mm:ss
Jul 31, 2003	2003/212/13:32:00 2003/212/15:46:30 2003/212/18:52:00	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	19240 19241 19243	224 007 039		50:00mm:ss
Aug 06, 2003	2003/218/13:27:00 2003/218/15:27:48 2003/218/17:26:00	Loss of Pointing Accuracy Inclination Maneuver Regain of Pointing Accuracy	19327 19328 19330	218 001 033		50:00mm:ss
Aug 16, 2003	2003/228/17:50:53 2003/228/19:20:53 2003/228/21:01:36	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	19475 19476 19477	023 039 055	-5.15	10:43mm:ss
Sep 10, 2003	2003/253/16:55:00 2003/253/17:55:00 2003/253/20:25:30	Loss of Pointing Accuracy Drag Makeup Maneuver Regain Pointing Accuracy	19839 19840 19841	022 038 054		00:30mm:ss
Oct 15, 2003	2003/288/06:59:08 2003/288/08:29:08 2003/288/10:17:44	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	20343 20344 20345	164 180 196		18:36mm:ss
Oct 31, 2003	2003/304/06:59:08 2003/304/08:29:08 2003/304/10:17:44	Loss of Pointing Accuracy Drag Makeup Maneuver Regain Pointing Accuracy	20582 20582 20584	027 027 059		
Dec 13, 2003	2003/347/16:38:39 2003/347/18:08:39 2003/347/19:52:45	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	21208 21209 21210	024 040 056		

2002

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 03, 2002	2002/003/09:40:44 2002/003/11:10:44 2002/003/12:51:58	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	10879 10880 10881	190 206 222		11 min 14 sec
Jan 09, 2002	2002/009/18:42:40 2002/009/20:12:40 2002/009/21:42:40	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	10971 10972 10973	031 047 063		17 sec
Jan 16, 2002	2002/016/13:31:30 2002/016/15:31:30 2002/016/17:38:00	Postponed to DOY 037 Inclination Maneuver Postponed to DOY 037 Postponed to DOY 037	11070 11071 11073	217 233 032		
Feb 01, 2002	2002/032/18:45:46 2002/032/20:15:46 2002/032/21:57:54	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	11307 11307 11308	048 048 064	-3.43 deg	12 min 08 sec
Feb 06, 2002	2002/037/13:39:00 2002/037/15:39:00 2002/037/18:00:40	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	11376 11376 11379	220 003 035		31 min
Feb 12, 2002	2002/043/17:08:00 2002/043/18:38:00 2002/043/20:08:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	11466 11467 11467	029 045 045		30 sec
Feb 26, 2002	2002/057/13:14:00 2002/057/15:14:00 2002/057/17:37:00	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	11667 11668 11670	216 232 031		21 min
Mar 03, 2002	2002/062/05:35:51 2002/062/07:05:51 2002/062/08:54:21	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	11735 11736 11737	139 155 171		15 min
Mar 05, 2002	2002/064/13:30:00 2002/064/15:30:00 2002/064/17:30:00	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	11769 11770 11772	217 233 032		23 min
Mar 13, 2002	2002/072/18:55:37 2002/072/20:00:37 2002/072/21:30:37	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	11889 11890 11892	040 056 088		30 sec
Mar 19, 2002	2002/078/13:28:00 2002/078/15:28:00 2002/078/18:05:00	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	11973 11974 11976	219 002 034		30 min

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Apr 10, 2002	2002/100/18:51:00 2002/100/20:20:35 2002/100/22:50:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	12297 12298 12299	044 060 076		25 sec
May 08, 2002	2002/128/17:58:00 2002/128/18:58:00 2002/128/21:28:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	12704 12704 12706	032 048 064		25 sec
Jun 19, 2002	2002/170/16:58:00 2002/170/17:58:00 2002/170/20:28:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	13315 13316 13317	022 038 054		25 sec
Jun 29, 2002	2002/180/11:29:00 2002/180/12:59:21 2002/180/14:43:35	S/C pointing accuracy loss Roll maneuver S/C pointing accuracy regain	13457 13458 13459	197 213 229		14 min 14 sec
Jul 29, 2002	2002/210/04:26:57 2002/210/05:21:56 2002/210/06:51:56	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	13890 13890 13891	135 135 151		14 min 59 sec
Aug 07, 2002	2002/219/17:18:00 2002/219/18:18:00 2002/219/21:10:20	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	14029 14029 14031	029 029 061		16 sec
Aug 08, 2002	2002/220/18:05:00 2002/220/19:05:00 2002/220/21:35:20	Drag makeup maneuver Cancelled - replaced with DOY 219	14044 14044 14046	036 036 068		
Aug 27, 2002	2002/239/18:08:33 2002/239/19:38:33 2002/239/21:22:50	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	14320 14321 14322	025 041 057		12 min 22 sec
Sep 04, 2002	2002/247/18:08:00 2002/247/19:08:00 2002/247/21:38:20	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	14437 14438 14439	033 049 065		20 sec
Sep 25, 2002	2002/268/13:42:00 2002/268/15:42:00 2002/268/18:45:00	Postponed - Inclination maneuver	14740 14741-14742 14743	221 004-020 036		30 min 37 sec
Sep 26, 2002	2002/269/13:33:00 2002/269/15:02:51 2002/269/16:50:00	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	14755 14756 14757	228 011 027		16 min 24 sec
Oct 09, 2002	2002/282/16:07:00 2002/282/17:57:00 2002/282/20:27:20	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	14945 14946 14948	006 022 038		20 sec
Oct 22, 2002	2002/295/13:26:00 2002/295/15:26:00 2002/295/18:26:19	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	15133 15134-15135 15136	218 001-017 033		30 min 19 sec
Oct 26, 2002	2002/299/05:34:47 2002/299/07:04:47 2002/299/08:52:54	S/C pointing accuracy loss Roll Maneuver S/C pointing accuracy regain	15187 15188 15189	150 166 192		18 min 07 sec
Nov 14, 2002	2002/318/18:19:00 2002/318/19:19:00 2002/318/21:49:20	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	15471 15472 15473	034 050 066		20 sec
Dec 05, 2002	2002/339/12:02:00 2002/339/13:05:14 2002/339/14:44:07 2002/339/16:23:01 2002/339/18:02:07 2002/339/19:40:47 2002/339/21:19:40 2002/339/23:00:00	Loss of Pointing Accuracy MODIS Slew #1 MODIS Slew #2 MODIS Slew #3 MODIS Slew #4 MODIS Slew #5 MODIS Slew #6 Regain of Pointing Accuracy	15773 15774 15775 15776 15777 15778 15779 15780	206 222 005 021 037 053 069 085		
Dec 06, 2002	2002/340/12:45:00 2002/340/13:48:32 2002/340/15:27:26 2002/340/17:06:19 2002/340/18:45:25 2002/340/20:24:05 2002/340/22:02:58 2002/340/23:49:00	Cancelled - Loss of Pointing Accuracy Cancelled - MODIS Slew #1 Cancelled - MODIS Slew #2 Cancelled - MODIS Slew #3 Cancelled - MODIS Slew #4 Cancelled - MODIS Slew #5 Cancelled - MODIS Slew #6 Cancelled - Regain of Pointing Accuracy	15788 15789 15790 15791 15792 15793 15794 15795	213 229 012 028 044 060 076 092		
Dec 11, 2002	2002/345/11:25:00 2002/345/12:29:42 2002/345/14:08:36 2002/345/15:47:30 2002/345/17:26:34 2002/345/19:05:15 2002/345/20:44:08 2002/345/22:30:00	Loss of Pointing Accuracy MODIS Slew #1 MODIS Slew #2 MODIS Slew #3 MODIS Slew #4 MODIS Slew #5 MODIS Slew #6 Regain of Pointing Accuracy	15860 15861 15862 15863 15864 15865 15866 15867	200 216 232 015 031 047 063 079		

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Dec 24, 2002	2002/358/05:17:37 2002/358/06:47:37 2002/358/08:28:01	Loss of Pointing Accuracy MODIS Roll Maneuver Regain Pointing Accuracy	16046 16047 16048	147 163 179		10:24 mm:ss

2001

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jan 13, 2001	2001/013/15:48:00 2001/013/17:17:25 2001/013/18:59:00	Pointing accuracy loss MODIS Roll Pointing accuracy regain	5713 5714 5714	016 032 032	-3.584	12 min 14 sec
Jan 17, 2001	2001/017/18:08:00 2001/017/19:38:00 2001/017/21:08:00	Pointing accuracy loss DRAG MAKEUP Pointing accuracy regain	5772 5773 5774	028 044 060		30 sec
Feb 12, 2001	2001/043/05:53:00 2001/043/07:23:04 2001/043/09:08:00	Pointing accuracy loss MODIS Roll Pointing accuracy regain	6143 6144 6145	139 155 171	-7.68	14 min 58 sec
Mar 13, 2001	2001/072/20:03:00 2001/072/21:32:52 2001/072/23:20:00	S/C pointing accuracy loss MODIS Roll mvr S/C pointing accuracy regain	6574 6574 6576	045 045 079	-16.512	21 min 50 sec
Mar 14, 2001	2001/073/18:10:00 2001/073/19:40:00 2001/073/21:10:00	S/C pointing accuracy loss Drag makeup mvr S/C pointing accuracy regain	6588 6589 6590	036 052 068		18 sec
Apr 05, 2001	2001/095/17:33:00 2001/095/19:03:00 2001/095/20:33:00	S/C pointing accuracy loss Drag makeup mvr S/C pointing accuracy regain	6908 6909 6910	030 046 062		20 sec
May 08, 2001	2001/128/18:50:30 2001/128/20:20:30 2001/128/21:50:30	S/C pointing accuracy loss Drag makeup mvr S/C pointing accuracy regain	7389 7390 7390	037 053 053		18 sec
Jun 10, 2001	2001/161/21:30:00 2001/161/22:58:47 2001/161/00:30:00	S/C pointing accuracy loss MODIS Roll mvr S/C pointing accuracy regain	7871 7872 7873	060 076 092	-20.0192	23 min 11 sec
Jun 27, 2001	2001/178/17:35:00 2001/178/19:05:00 2001/178/20:35:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	8117 8117 8118	035 035 051		16 sec
Jul 10, 2001	2001/191/16:39:48 2001/191/18:19:48 2001/191/20:06:07	S/C pointing accuracy loss MODIS Roll Maneuver S/C pointing accuracy regain	8305 8306 8307	014 030 046	11.75	17 min 30 sec
Aug 09, 2001	2001/221/03:00:14 2001/221/05:30:14 2001/221/07:15:02	S/C pointing accuracy loss MODIS Roll Maneuver S/C pointing accuracy regain	8734 8735 8736	121 137 153	-7.4496	14 min 48 sec
Sep 07, 2001	2001/250/18:29:10 2001/250/19:59:10 2001/250/21:44:00	S/C pointing accuracy loss MODIS Roll Maneuver S/C pointing accuracy regain	9166 9166 9168	043 043 075	-7.5008	14 min 48 sec
Sep 13, 2001	2001/256/17:55:00 2001/256/19:25:00 2001/256/20:55:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	9253 9253 9254	037 037 053		20 sec
Oct 02, 2001	2001/275/17:21:00 2001/275/18:51:00 2001/275/20:21:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	9529 9530 9531	026 042 058		27 sec
Oct 07, 2001	2001/280/05:35:03 2001/280/07:05:03 2001/280/08:52:27	S/C pointing accuracy loss MODIS Roll Maneuver S/C pointing accuracy regain	9595 9596 9597	150 166 182	-11.3408	
Oct 30, 2001	2001/303/17:35:00 2001/303/19:32:00 2001/303/21:15:00	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	9937 9938 9939	030 046 062		23 sec
Nov 15, 2001	2001/319/18:35:35 2001/319/20:20:30 2001/319/21:50:35	S/C pointing accuracy loss Drag Makeup Maneuver S/C pointing accuracy regain	10170 10172 10172	030 062 062		28 sec
Dec 05, 2001	2001/339/02:02:15 2001/339/03:32:15 2001/339/05:17:15	S/C pointing accuracy loss MODIS Roll Maneuver S/C pointing accuracy regain	10452 10453 10454	115 131 147	-7.5568	15 min
Dec 13, 2001	2001/347/13:34:30 2001/347/15:34:30 2001/347/17:34:30	S/C pointing accuracy loss Inclination maneuver S/C pointing accuracy regain	10575 10576 10578	219 002 034		27 sec



Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Dec 18, 2001	2001/352/18:41:00 2001/352/20:11:00 2001/352/21:41:00	S/C pointing accuracy loss DRAG Makeup Maneuver S/C pointing accuracy regain	10651 10652 10653	037 053 069		30 sec

2000

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Mar 14, 2000	2000/074/19:08:00 2000/074/20:38:52 2000/076/23:38:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	1273 1274 1276	041 057 089		19.5 sec
Mar 15, 2000	2000/075/13:22:52 2000/075/16:22:52 2000/075/18:01:44 2000/075/19:38:17 2000/075/21:19:29	S/C pointing accuracy loss CAL SLEW 1st Roll Part 1 CAL SLEW 1st Yaw Part 1 CAL SLEW 2nd Yaw Part 1 CAL SLEW 2st Roll Part 1	1284 1286 1287 1288 1289	217 016 032 048 064	N/A 20.0192 20.0192 -30.0032 -20.0192	N/A 35 min 32 sec 35 min 32 sec 40 min 12 sec 35 min 33 sec
Mar 16, 2000	2000/076/00:55:02 2000/076/14:07:40 2000/076/17:07:40 2000/076/18:45:43 2000/076/22:04:18	S/C pointing accuracy regain S/C pointing accuracy loss CAL SLEW 1st Roll Part 2 CAL SLEW 1st Yaw Part 2 CAL SLEW 2st Roll Part 2	1291 1299 1301 1302 1304	096 224 023 039 071	N/A N/A 9.968 15.0016 -9.968	N/A N/A 32 min 14 sec 33 min 54 sec 32 min 14 sec
Mar 17, 2000	2000/077/01:36:12	S/C pointing accuracy regain	1306	103		
Mar 24, 2000	2000/084/15:22:51 2000/084/16:52:51 2000/084/22:31:09 2000/084/22:31:09	S/C pointing accuracy loss MODIS Roll MODIS Roll S/C pointing accuracy regain	1416 1417 1419 1419	232 015 047 047	N/A -19.5072 -19.0208 N/A	N/A 30 min 13 sec 30 min 30 sec N/A
Apr 13, 2000	2000/103/18:20:00 2000/103/20:20:00 2000/103/22:20:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	1695 1696 1697	036 052 068		21 sec
Apr 13, 2000	2000/104/12:23:00 2000/104/14:55:33 2000/104/16:34:26 2000/104/18:13:19 2000/104/19:52:13 2000/104/22:15:00	S/C pointing accuracy loss IRU CAL 1st Roll IRU CAL 2nd Roll IRU CAL 1st Yaw IRU CAL 2st Yaw S/C pointing accuracy regain	1706 1707 1708 1709 1711 1712	212 228 011 027 059 075	N/A 10.00 -10.00 30.00 -30.00 N/A	N/A 23 min 40 sec 23 min 40 sec 23 min 40 sec 23 min 40 sec N/A
Apr 19, 2000	2000/110/18:31:40 2000/110/21:01:40 2000/110/23:31:40	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	1797 1798 1800	037 053 085		26.846 sec
Apr 25, 2000	2000/116/12:05:42 2000/116/14:05:42 2000/116/15:45:39 2000/116/17:25:36 2000/116/19:05:33 2000/116/20:45:29 2000/116/22:24:53 2000/116/00:40:00	S/C pointing accuracy loss MODIS Yaw MODIS Yaw MODIS Yaw MODIS Yaw MODIS Yaw MODIS Yaw S/C pointing accuracy regain	1880 1882 1883 1884 1885 1886 1887 1888	200 232 015 031 047 063 079 095	N/A 15.1296 11.9552 8.7552 5.5552 2.3658 -0.82208 N/A	N/A 25 min 32 sec 23 min 24 sec 21 min 16 sec 18 min 08 sec 17 min 00 sec 15 min 51 sec N/A
Apr 27, 2000	2000/118/10:30:00 2000/118/12:00:00 2000/118/14:30:00	S/C pointing accuracy loss INCLINATION ADJUST S/C pointing accuracy regain	1908 1909 1911	182 198 230		354 sec
Apr 27, 2000	2000/118/18:13:00 2000/118/20:13:06 2000/118/22:38:00	S/C pointing accuracy loss INCLINATION ADJUST S/C pointing accuracy regain	1913 1914 1915	029 045 061		25 min
Apr 28, 2000	2000/119/17:17:00 2000/119/19:17:27 2000/119/21:42:00	S/C pointing accuracy loss INCLINATION ADJUST S/C pointing accuracy regain	1927 1928 1930	020 036 068		25 min
May 17, 2000	2000/138/17:4?:?? 2000/138/19:00:00 2000/138/21:10:??	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	2204 2205 2206	025 041 057		< 1 min
Jun 15, 2000	2000/167/16:13:14 2000/167/17:43:14 2000/167/21:01:00 2000/167/23:15:24	S/C pointing accuracy loss CERES Yaw 1 CERES Yaw 2 S/C pointing accuracy regain	2626 2626 2629 2629	020 020 068 084	N/A 10.24 10.24 N/A	N/A 44 min 44 min N/A
Jun 20, 2000	2000/172/17:19:00 2000/172/18:49:00 2000/172/20:09:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	2699 2700 2701	023 039 055		30 sec
Jun 21, 2000	2000/173/20:11:30 2000/173/21:41:00 2000/173/23:20:15	S/C pointing accuracy loss MODIS Roll 1 MODIS Roll 2	2715 2716 2717	046 062 078	N/A -17.9968 -17.4592	N/A 21 min 30 sec 20 min 49 sec

Date	Year/DOY/UTC	Maneuver Information	Orbit	Path	Degrees	Duration
Jun 22, 2000	2000/174/00:58:59 2000/174/02:49:37	MODIS Roll 3 S/C pointing accuracy regain	2718 2719	094 110	-11.392 N/A	18 min 12 sec N/A
Aug 02, 2000	2000/215/17:45:00 2000/215/19:30:00 2000/215/21:15:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	3325 3327 3328	020 052 068		22 sec
Sep 18, 2000	2000/262/04:00:00 2000/262/05:29:56 2000/262/07:17:00	S/C pointing accuracy loss MODIS Roll S/C pointing accuracy regain	4001 4002 4004	118 134 166	-11.0848	16 min 44 sec
Oct 04, 2000	2000/278/16:00:00 2000/278/18:00:00 2000/278/19:30:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	4242 4243 4244	013 029 045		22 sec
Oct 17, 2000	2000/291/13:26:00 2000/291/14:56:13 2000/291/14:56:13 2000/291/18:23:00	S/C pointing accuracy loss MODIS Roll 1 MODIS Roll 2 S/C pointing accuracy regain	4430 4431 4432 4433	225 008 024 024	N/A -12.544 -11.8528 N/A	N/A 17 min 42 sec 17 min 14 sec N/A
Nov 01, 2000	2000/306/17:41:00 2000/306/19:41:00 2000/306/21:11:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	4651 4652 4653	033 049 065		25 sec
Nov 15, 2000	2000/320/21:12:00 2000/320/22:41:59 2000/320/00:29:00	S/C pointing accuracy loss MODIS Roll S/C pointing accuracy regain	4857 4858 4859	067 083 099	-11.5456	17 min
Dec 05, 2000	2000/340/17:37:00 2000/340/19:07:00 2000/340/20:27:00	S/C pointing accuracy loss DRAG MAKEUP S/C pointing accuracy regain	5146 5147 5148	031 047 063		30 sec
Dec 15, 2000	2000/350/06:33:00 2000/350/08:03:54 2000/350/09:38:00	S/C pointing accuracy loss MODIS Roll S/C pointing accuracy regain	5285 5286 5286	158 074 174	-6.656	14 min 52 sec