

## AMSR-E EVENTS LIST

As of Aug. 19, 2013

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Aug. 17, 2013	0:30	Aug. 17, 2013	1:00	0:30	MODIS Lunar Calibration Roll Maneuver #106	Roll Angle:-19.8433deg
Jul. 24, 2013	14:25	Jul. 24, 2013	16:24	1:59	Drag Makeup(DMU) Maneuver #73	
Jul. 18, 2013	20:04	Jul. 18, 2013	20:34	0:30	MODIS Lunar Calibration Roll Maneuver #105	Roll Angle:-19.154deg
Jun. 20, 2013	13:45	Jun. 20, 2013	15:44	1:59	Drag Makeup(DMU) Maneuver #72	
Jun. 19, 2013	12:20	Jun. 19, 2013	12:48	0:28	MODIS Lunar Calibration Roll Maneuver #104	Roll Angle:-14.2568deg
May. 21, 2013	2:54	May. 21, 2013	3:19	0:25	MODIS Lunar Calibration Roll Maneuver #103	Roll Angle:-7.9715deg
May. 15, 2013	14:13	May. 15, 2013	15:19	1:06	Drag Makeup(DMU) Maneuver #71	
May. 07, 2013	15:43	May. 07, 2013	16:14	0:31	Inclination Adjust Maneuver(Delta-I) #38	
Apr. 30, 2013	15:36	Apr. 30, 2013	16:07	0:31	Inclination Adjust Maneuver(Delta-I) #37	
Apr. 21, 2013	14:06	Apr. 21, 2013	14:27	0:21	MODIS Lunar Calibration Roll Maneuver #102	Roll Angle:-4.182deg
Apr. 16, 2013	15:22	Apr. 16, 2013	15:54	0:32	Inclination Adjust Maneuver(Delta-I) #36	
Apr. 09, 2013	15:15	Apr. 09, 2013	15:47	0:32	Inclination Adjust Maneuver(Delta-I) #35	
Mar. 23, 2013	20:26	Mar. 23, 2013	20:28	0:02	Drag Makeup(DMU) Maneuver #70	
Mar. 22, 2013	21:57	Mar. 22, 2013	22:20	0:23	MODIS Lunar Calibration Roll Maneuver #101	Roll Angle:-5.6636deg
Mar. 10, 2013	16:29	Mar. 10, 2013	16:32	0:03	Drag Makeup(DMU) Maneuver #69	
Feb. 21, 2013	2:34	Feb. 21, 2013	2:59	0:25	MODIS Lunar Calibration Roll Maneuver #100	Roll Angle:-7.7579deg
Feb. 14, 2013	16:29	Feb. 14, 2013	16:31	0:02	Drag Makeup(DMU) Maneuver #68	
Jan. 25, 2013	16:01	Jan. 25, 2013	16:03	0:02	Drag Makeup(DMU) Maneuver #67	
Dec. 19, 2012	15:09	Dec. 19, 2012	15:11	0:02	Drag Makeup(DMU) Maneuver #66	
Nov. 28, 2012	14:05	Nov. 28, 2012	15:12	1:07	Drag Makeup(DMU) Maneuver #65	
Nov. 23, 2012	18:46	Nov. 23, 2012	18:58	0:12	MODIS Lunar Calibration Roll Maneuver #99	Roll Angle:-0.4121deg
Nov. 08, 2012	14:36	Nov. 08, 2012	15:31	0:55	Drag Makeup(DMU) Maneuver #64	
Oct. 25, 2012	1:17	Oct. 25, 2012	1:38	0:21	MODIS Lunar Calibration Roll Maneuver #98	Roll Angle:-6.1841deg
Sep. 27, 2012	15:25	Sep. 27, 2012	16:34	1:09	Drag Makeup(DMU) Maneuver #63	
Sep. 25, 2012	14:16	Sep. 25, 2012	14:44	0:28	MODIS Lunar Calibration Roll Maneuver #97	Roll Angle:-14.8716deg
Sep. 13, 2012	15:20	Sep. 13, 2012	16:21	1:01	Drag Makeup(DMU) Maneuver #62	
Aug. 09, 2012	14:50	Aug. 09, 2012	15:51	1:01	Drag Makeup(DMU) Maneuver #61	
Jun. 29, 2012	18:26	Jun. 29, 2012	18:54	0:28	MODIS Lunar Calibration Roll Maneuver #96	Roll Angle:-17.6473deg
Jun. 21, 2012	15:45	Jun. 21, 2012	17:34	1:49	Drag Makeup(DMU) Maneuver #60	
May. 31, 2012	12:21	May. 31, 2012	12:45	0:24	MODIS Lunar Calibration Roll Maneuver #95	Roll Angle:-10.73deg
May. 24, 2012	13:42	May. 24, 2012	14:49	1:07	Drag Makeup(DMU) Maneuver #59	
May. 08, 2012	15:18	May. 08, 2012	15:49	0:31	Inclination Adjust Maneuver(Delta-I) #34	
May. 02, 2012	6:10	May. 02, 2012	6:30	0:20	MODIS Lunar Calibration Roll Maneuver #94	Roll Angle:-5.5191deg
May. 01, 2012	15:11	May. 01, 2012	15:42	0:31	Inclination Adjust Maneuver(Delta-I) #33	
Apr. 24, 2012	15:04	Apr. 24, 2012	15:36	0:32	Inclination Adjust Maneuver(Delta-I) #32	
Apr. 17, 2012	14:57	Apr. 17, 2012	15:29	0:32	Inclination Adjust Maneuver(Delta-I) #31	
Apr. 02, 2012	19:05	Apr. 02, 2012	19:12	0:07	MODIS Lunar Calibration Roll Maneuver #93	Roll Angle:-5.1001deg
Mar. 14, 2012	15:15	Mar. 14, 2012	16:13	0:58	Drag Makeup(DMU) Maneuver #58	
Mar. 04, 2012	2:58	Mar. 04, 2012	3:05	0:07	MODIS Lunar Calibration Roll Maneuver #92	Roll Angle:-7.7522deg
Feb. 03, 2012	9:18	Feb. 03, 2012	9:24	0:06	MODIS Lunar Calibration Roll Maneuver #91	Roll Angle:-8.6196deg
Jan. 25, 2012	14:30	Jan. 25, 2012	15:24	0:56	Drag Makeup(DMU) Maneuver #57	
Jan. 04, 2012	12:22	Jan. 04, 2012	12:29	0:07	MODIS Lunar Calibration Roll Maneuver #90	Roll Angle:-4.5895deg
Dec. 20, 2011	14:55	Dec. 20, 2011	15:54	0:59	Drag Makeup(DMU) Maneuver #56	
Dec. 06, 2011	14:45	Dec. 06, 2011	15:41	0:56	Drag Makeup(DMU) Maneuver #55	
Dec. 05, 2011	18:54	Dec. 05, 2011	19:01	0:07	MODIS Lunar Calibration Roll Maneuver #89	Roll Angle:-0.3267deg
Nov. 17, 2011	14:11	Nov. 17, 2011	15:09	0:58	Drag Makeup(DMU) Maneuver #54	
Nov. 05, 2011	18:54	Nov. 05, 2011	19:10	0:16	MODIS Lunar Calibration Roll Maneuver #88	Roll Angle:-2.415deg

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Oct. 27, 2011	13:55	Oct. 27, 2011	14:54	0:59	Drag Makeup(DMU) Maneuver #53	
Oct. 07, 2011	11:08	Oct. 07, 2011	11:34	0:26	MODIS Lunar Calibration Roll Maneuver #87	Roll Angle:-13.3063deg
Sep. 29, 2011	14:30	Sep. 29, 2011	16:10	1:40	Drag Makeup(DMU) Maneuver #52	
Sep. 08, 2011	0:45	Sep. 08, 2011	1:05	0:20	No Data due to power-off/on of the AMSR-E for recovery operations	
Aug. 31, 2011	15:45	Aug. 31, 2011	16:44	0:59	Drag Makeup(DMU) Maneuver #51	
Jul. 10, 2011	21:12	Jul. 10, 2011	21:43	0:31	MODIS Lunar Calibration Roll Maneuver #86	Roll Angle:-20deg
Jun. 22, 2011	13:50	Jun. 22, 2011	15:39	1:49	Drag Makeup(DMU) Maneuver #50	
Jun. 11, 2011	16:47	Jun. 11, 2011	17:14	0:27	MODIS Lunar Calibration Roll Maneuver #85	Roll Angle:-14.2849deg
Jun. 08, 2011	13:40	Jun. 08, 2011	15:24	1:44	Drag Makeup(DMU) Maneuver #49	
May. 13, 2011	12:18	May. 13, 2011	12:39	0:21	MODIS Lunar Calibration Roll Maneuver #84	Roll Angle:-6.9895deg
Apr. 20, 2011	14:30	Apr. 20, 2011	15:39	1:09	Drag Makeup(DMU) Maneuver #48	
Apr. 14, 2011	6:02	Apr. 14, 2011	6:21	0:19	MODIS Lunar Calibration Roll Maneuver #83	Roll Angle:-4.5903deg
Apr. 05, 2011	15:58	Apr. 05, 2011	16:29	0:31	Inclination Adjust Maneuver(Delta-I) #30	
Mar. 29, 2011	15:51	Mar. 29, 2011	16:22	0:31	Inclination Adjust Maneuver(Delta-I) #29	
Mar. 22, 2011	15:44	Mar. 22, 2011	16:15	0:31	Inclination Adjust Maneuver(Delta-I) #28	
Mar. 15, 2011	18:49	Mar. 15, 2011	19:11	0:22	MODIS Lunar Calibration Roll Maneuver #82	Roll Angle:-7.3407deg
Mar. 01, 2011	13:40	Mar. 01, 2011	14:39	0:59	Drag Makeup(DMU) Maneuver #47	
Feb. 14, 2011	6:03	Feb. 14, 2011	6:27	0:24	MODIS Lunar Calibration Roll Maneuver #81	Roll Angle:-9.9616deg
Feb. 08, 2011	1:10	Feb. 08, 2011	3:59	2:49	Drag Makeup(DMU) Maneuver #46	
Jan. 15, 2011	14:04	Jan. 15, 2011	14:26	0:22	MODIS Lunar Calibration Roll Maneuver #80	Roll Angle:-7.7223deg
Jan. 02, 2011	14:40	Jan. 02, 2011	16:04	1:24	Drag Makeup(DMU) Maneuver #45	
Dec. 16, 2010	19:00	Dec. 16, 2010	19:07	0:07	MODIS Lunar Calibration Roll Maneuver #79	Roll Angle:-0.9294deg
Nov. 17, 2010	16:20	Nov. 17, 2010	17:29	1:09	Drag Makeup(DMU) Maneuver #44	
Nov. 17, 2010	1:41	Nov. 17, 2010	1:48	0:07	MODIS Lunar Calibration Roll Maneuver #78	Roll Angle:-0.2456deg
Oct. 18, 2010	6:26	Oct. 18, 2010	6:50	0:24	MODIS Lunar Calibration Roll Maneuver #77	Roll Angle:-9.7508deg
Sep. 29, 2010	14:00	Sep. 29, 2010	15:04	1:04	Drag Makeup(DMU) Maneuver #43	
Sep. 18, 2010	9:32	Sep. 18, 2010	10:02	0:30	MODIS Lunar Calibration Roll Maneuver #76	Roll Angle:-19.3639deg
Jul. 28, 2010	0:40	Jul. 28, 2010	1:02	0:22	No Data due to power-off/on of the AMSR-E for recovery operations	
Jul. 27, 2010	14:45	Jul. 27, 2010	15:54	1:09	Drag Makeup(DMU) Maneuver #42	
Jun. 21, 2010	21:14	Jun. 21, 2010	21:43	0:29	MODIS Lunar Calibration Roll Maneuver #75	Roll Angle:-17.5721deg
Jun. 16, 2010	0:04	Jun. 16, 2010	1:20	1:16	Data Loss due to on-board system maintenance to change parameter	
Jun. 10, 2010	23:45	Jun. 11, 2010	0:06	0:21	Data Loss due to on-board system maintenance to change parameter	
May. 23, 2010	15:09	May. 23, 2010	15:32	0:23	MODIS Lunar Calibration Roll Maneuver #74	Roll Angle:-8.9085deg
Apr. 24, 2010	10:34	Apr. 24, 2010	10:52	0:18	MODIS Lunar Calibration Roll Maneuver #73	Roll Angle:-4.1773deg
Apr. 15, 2010	14:50	Apr. 15, 2010	16:29	1:39	Drag Makeup(DMU) Maneuver #41	
Mar. 26, 2010	2:36	Mar. 26, 2010	2:57	0:21	MODIS Lunar Calibration Roll Maneuver #72	Roll Angle:-6.4816deg
Mar. 23, 2010	15:21	Mar. 23, 2010	15:52	0:31	Inclination Adjust Maneuver(Delta-I) #27	
Mar. 16, 2010	15:14	Mar. 16, 2010	15:45	0:31	Inclination Adjust Maneuver(Delta-I) #26	
Mar. 09, 2010	15:07	Mar. 09, 2010	15:38	0:31	Inclination Adjust Maneuver(Delta-I) #25	
Feb. 24, 2010	17:06	Feb. 24, 2010	17:30	0:24	MODIS Lunar Calibration Roll Maneuver #71	Roll Angle:-10.3562deg
Feb. 02, 2010	8:06:00	Feb. 05, 2010	7:07:12	71:01:12	Antenna Drive Electronics (ADE) Control Unit of AMSR-E was swapped to its redundant unit (ADE-B) due to the anomaly detection by AMSR-E onboard Fault Management system.	
Jan. 28, 2010	14:30	Jan. 28, 2010	15:34	1:04	Drag Makeup(DMU) Maneuver #40	
Jan. 26, 2010	6:02	Jan. 26, 2010	6:26	0:24	MODIS Lunar Calibration Roll Maneuver #70	Roll Angle:-9.8288deg

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Dec. 27, 2009	17:26	Dec. 27, 2009	17:44	0:18	MODIS Lunar Calibration Roll Maneuver #69	Roll Angle:-4.1484deg
Nov. 25, 2009	14:25	Nov. 25, 2009	16:14	1:49	Debris Avoidance Maneuver(DAM) #1 Drag Makeup(DMU) Maneuver #39	
Nov. 18, 2009	16:00	Nov. 18, 2009	17:04	1:04	Drag Makeup(DMU) Maneuver #38	
Oct. 29, 2009	8:20	Oct. 29, 2009	8:41	0:21	MODIS Lunar Calibration Roll Maneuver #67	Roll Angle:-6.1353deg
Oct. 22, 2009	01:30	Oct. 22, 2009	01:50	0:20	No Data due to power-off/on of the AMSR-E for recovery operations	
Sep. 29, 2009	14:43	Sep. 29, 2009	15:12	0:29	MODIS Lunar Calibration Roll Maneuver #66	Roll Angle:-17.377deg
Aug. 06, 2009	15:10	Aug. 06, 2009	16:09	0:59	Drag Makeup(DMU) Maneuver #37	
Jul. 02, 2009	5:02	Jul. 02, 2009	5:32	0:30	MODIS Lunar Calibration Roll Maneuver #65	Roll Angle:-19.7496deg
Jun. 02, 2009	22:57	Jun. 02, 2009	23:22	0:25	MODIS Lunar Calibration Roll Maneuver #64	Roll Angle:-11.6067deg
May. 04, 2009	15:07	May. 04, 2009	15:25	0:18	MODIS Lunar Calibration Roll Maneuver #63	Roll Angle:-4.0351deg
Apr. 29, 2009	14:38	Apr. 29, 2009	15:09	0:31	Inclination Adjust Maneuver(Delta-I) #24	
Apr. 23, 2009	15:15	Apr. 23, 2009	15:46	0:31	Inclination Adjust Maneuver(Delta-I) #23	
Apr. 21, 2009	15:27	Apr. 21, 2009	15:58	0:31	Inclination Adjust Maneuver(Delta-I) #22	
Apr. 08, 2009	15:57	Apr. 08, 2009	16:28	0:31	Inclination Adjust Maneuver(Delta-I) #21	
Apr. 05, 2009	7:08	Apr. 05, 2009	7:28	0:20	MODIS Lunar Calibration Roll Maneuver #62	Roll Angle:-5.2059deg
Apr. 02, 2009	14:54	Apr. 02, 2009	15:25	0:31	Inclination Adjust Maneuver(Delta-I) #20	
Mar. 31, 2009	15:06	Mar. 31, 2009	15:38	0:32	Inclination Adjust Maneuver(Delta-I) #19	
Mar. 18, 2009	15:36	Mar. 18, 2009	16:07	0:31	Inclination Adjust Maneuver(Delta-I) #18	
Mar. 12, 2009	14:33	Mar. 12, 2009	15:04	0:31	Inclination Adjust Maneuver(Delta-I) #17	
Mar. 10, 2009	14:45	Mar. 10, 2009	15:16	0:31	Inclination Adjust Maneuver(Delta-I) #16	
Mar. 06, 2009	23:14	Mar. 06, 2009	23:38	0:24	MODIS Lunar Calibration Roll Maneuver #61	Roll Angle:-10.4940deg
Feb. 05, 2009	15:26	Feb. 05, 2009	15:51	0:25	MODIS Lunar Calibration Roll Maneuver #60	Roll Angle:-11.9153deg
Jan. 07, 2009	4:25	Jan. 07, 2009	4:46	0:21	MODIS Lunar Calibration Roll Maneuver #59	Roll Angle:-6.5716deg
Dec. 08, 2008	22:32	Dec. 08, 2008	22:46	0:14	MODIS Lunar Calibration Roll Maneuver #58	Roll Angle:-1.0354deg
Dec. 04, 2008	14:52	Dec. 04, 2008	15:54	1:02	Drag Makeup(DMU) Maneuver #36	
Nov. 09, 2008	3:37	Nov. 09, 2008	3:53	0:16	MODIS Lunar Calibration Roll Maneuver #57	Roll Angle:-2.517deg
Oct. 15, 2008	15:00	Oct. 15, 2008	15:59	0:59	Drag Makeup(DMU) Maneuver #35	
Oct. 10, 2008	19:49	Oct. 10, 2008	20:17	0:28	MODIS Lunar Calibration Roll Maneuver #56	Roll Angle:-15.3835deg
Jul. 24, 2008	14:30	Jul. 24, 2008	15:39	1:09	Drag Makeup(DMU) Maneuver #34	
Jun. 25, 2008	23:44	Jun. 26, 2008	0:30	0:46	No Data due to power-off/on of the AMSR-E for recovery operations	
Jun. 13, 2008	16:29	Jun. 13, 2008	16:56	0:27	MODIS Lunar Calibration Roll Maneuver #55	Roll Angle:-15.2785deg
May. 15, 2008	3:44	May. 15, 2008	4:05	0:21	MODIS Lunar Calibration Roll Maneuver #54	Roll Angle:-6.6824deg
Apr. 23, 2008	15:45	Apr. 23, 2008	16:49	1:04	Drag Makeup(DMU) Maneuver #33	
Apr. 15, 2008	14:49	Apr. 15, 2008	15:09	0:20	MODIS Lunar Calibration Roll Maneuver #53	Roll Angle:-5.5221deg
Mar. 17, 2008	3:36	Mar. 17, 2008	4:01	0:25	MODIS Lunar Calibration Roll Maneuver #52	Roll Angle:-10.9007deg
Feb. 16, 2008	19:48	Feb. 16, 2008	20:14	0:26	MODIS Lunar Calibration Roll Maneuver #51	Roll Angle:-13.7743deg
Jan. 18, 2008	10:24	Jan. 18, 2008	10:48	0:24	MODIS Lunar Calibration Roll Maneuver #50	Roll Angle:-9.782deg.
Jan. 09, 2008	15:40	Jan. 09, 2008	16:49	1:09	Drag Makeup(DMU) Maneuver #32	
Nov. 09, 2007	14:45	Nov. 09, 2007	15:54	1:09	Drag Makeup(DMU) Maneuver #31	
Jul. 17, 2007	13:23	Jul. 17, 2007	13:34	0:11	On-board system maintenance to change parameter	
Jul. 12, 2007	13:55	Jul. 12, 2007	14:54	0:59	Drag Makeup(DMU) Maneuver #30	
Jun. 26, 2007	13:52	Jun. 26, 2007	14:12	0:20	On-board system maintenance to change parameter	
May. 27, 2007	2:19	May. 27, 2007	2:42	0:23	MODIS Lunar Calibration Roll Maneuver #47	Roll Angle:-8.9926deg.
May. 08, 2007	16:25	May. 08, 2007	16:57	0:22	Inclination Adjust Maneuver (Delta-I) #15	
Apr. 27, 2007	8:30	Apr. 27, 2007	8:49	0:19	MODIS Lunar Calibration Roll Maneuver #46	Roll Angle:-4.8556deg.

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Apr. 25, 2007	15:16	Apr. 25, 2007	15:47	0:31	Inclination Adjust Maneuver (Delta-I) #14	
Apr. 11, 2007	15:02	Apr. 11, 2007	15:34	0:32	Inclination Adjust Maneuver (Delta-I) #13	
Mar. 14, 2007	16:14	Mar. 14, 2007	16:45	0:21	Inclination Adjust Maneuver (Delta-I) #12	
Feb. 27, 2007	3:32	Feb. 27, 2007	3:59	0:27	MODIS Lunar Calibration Roll Maneuver #45	Roll Angle:-14.1269deg.
Jan. 28, 2007	16:29	Jan. 28, 2007	16:55	0:26	MODIS Lunar Calibration Roll Maneuver #44	Roll Angle:-12.0430deg.
Jan. 04, 2007	16:05	Jan. 04, 2007	16:59	0:54	Drag Makeup(DMU) Maneuver #29	
Dec. 30, 2006	7:12	Dec. 30, 2006	7:30	0:18	MODIS Lunar Calibration Roll Maneuver #43	Roll Angle:-4.2394deg.
Dec. 01, 2006	0:28	Dec. 01, 2006	1:30	1:02	No Data due to power-off/on of the AMSR-E for recovery operations	
Nov. 17, 2006	4:36	Nov. 19, 2006	16:55	60:19	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 15, 2006	14:50	Nov. 15, 2006	15:38	0:48	Drag Makeup(DMU) Maneuver #28	
Nov. 09, 2006	1:06	Nov. 09, 2006	2:18	1:12	No Data due to power-off/on of the AMSR-E for recovery operations	
Nov. 01, 2006	19:28	Nov. 01, 2006	19:53	0:25	MODIS Lunar Calibration Roll Maneuver #41	Roll Angle:-10.2152deg.
Sep. 12, 2006	16:09	Sep. 12, 2006	16:40	0:31	Inclination Adjust Maneuver (Delta-I) #11	
Sep. 07, 2006	15:51	Sep. 07, 2006	16:22	0:31	Inclination Adjust Maneuver (Delta-I) #10	
Aug. 29, 2006	15:58	Aug. 29, 2006	16:30	0:32	Inclination Adjust Maneuver (Delta-I) #9	
Aug. 22, 2006	15:52	Aug. 22, 2006	16:30	0:38	Inclination Adjust Maneuver (Delta-I) #8	
Jul. 06, 2006	13:35	Jul. 06, 2006	14:05	0:45	MODIS Lunar Calibration Roll Maneuver #40	Roll Angle:-19.9065deg.
Jun. 14, 2006	13:15	Jun. 14, 2006	15:00	1:45	Drag Makeup(DMU) Maneuver #27	
Jun. 07, 2006	4:09	Jun. 07, 2006	4:34	0:25	MODIS Lunar Calibration Roll Maneuver #39	Roll Angle:-11.6964deg.
May. 08, 2006	10:23	May. 08, 2006	10:43	0:20	MODIS Lunar Calibration Roll Maneuver #38	Roll Angle:-5.5124deg.
Apr. 19, 2006	14:50	Apr. 19, 2006	15:49	0:59	Drag Makeup(DMU) Maneuver #26	
Apr. 08, 2006	16:31	Apr. 08, 2006	16:55	0:24	MODIS Lunar Calibration Roll Maneuver #37	Roll Angle:-9.6591deg.
Mar. 09, 2006	21:08	Mar. 09, 2006	21:34	0:26	MODIS Lunar Calibration Roll Maneuver #36	Roll Angle:-14.2597deg.
Feb. 08, 2006	5:07	Feb. 08, 2006	5:33	0:26	MODIS Lunar Calibration Roll Maneuver #35	Roll Angle:-13.7904deg.
Feb. 01, 2006	15:20	Feb. 01, 2006	16:14	0:54	Drag Makeup(DMU) Maneuver #25	
Jan. 09, 2006	14:50	Jan. 09, 2006	15:12	0:22	MODIS Lunar Calibration Roll Maneuver #34	Roll Angle:-6.9631deg.
Dec. 11, 2005	4:09	Dec. 11, 2005	4:16	0:07	MODIS Lunar Calibration Roll Maneuver #33	
Dec. 08, 2005	14:21	Dec. 08, 2005	16:09	1:48	Drag Makeup(DMU) Maneuver #24	
Nov. 20, 2005	12:11	Nov. 21, 2005	13:48	25:37	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 17, 2005	0:51	Nov. 18, 2005	2:44	25:52	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 11, 2005	20:32	Nov. 11, 2005	20:54	0:21	MODIS Lunar Calibration Roll Maneuver #32	Roll Angle:-7.6621deg.
Oct. 13, 2005	16:06	Oct. 13, 2005	16:41	0:34	MODIS Lunar Calibration Roll Maneuver #31	Roll Angle:-19.6645deg.
Oct. 06, 2005	15:05	Oct. 06, 2005	17:07	2:02	Drag Makeup(DMU) Maneuver #23	
Aug. 03, 2005	15:55	Aug. 03, 2005	17:04	1:09	Drag Makeup(DMU) Maneuver #22	
Jun. 18, 2005	1:03	Jun. 18, 2005	1:21	0:18	MODIS Lunar Calibration Roll Maneuver #30	Roll Angle-14.3051deg.
May. 19, 2005	12:16	May. 19, 2005	12:31	0:15	MODIS Lunar Calibration Roll Maneuver #29	Roll Angle:-7.0831deg.
May. 13, 2005	15:53	May. 13, 2005	17:05	1:12	Drag Makeup(DMU) Maneuver #21	
Apr. 19, 2005	18:25	Apr. 19, 2005	18:47	0:22	MODIS Lunar Calibration Roll Maneuver #28	Roll Angle:-8.1412deg.
Mar. 21, 2005	0:39	Mar. 21, 2005	1:06	0:27	MODIS Lunar Calibration Roll Maneuver #27	Roll Angle:-13.7498deg.
Mar. 02, 2005	17:00	Mar. 02, 2005	18:32	1:32	Drag Makeup(DMU) Maneuver #20	
Feb. 19, 2005	3:41	Feb. 19, 2005	4:08	0:27	MODIS Lunar Calibration Roll Maneuver #26	Roll Angle:-14.4239deg.
Jan. 20, 2005	8:26	Jan. 20, 2005	8:50	0:24	MODIS Lunar Calibration Roll Maneuver #25	Roll Angle:-9.0663deg.
Jan. 12, 2005	17:49	Jan. 12, 2005	19:28	1:39	Drag Makeup(DMU) Maneuver #19	
Dec. 21, 2004	16:41	Dec. 21, 2004	16:56	0:15	MODIS Lunar Calibration Roll Maneuver #24	Roll Angle:-1.4013deg.
Nov. 22, 2004	1:00	Nov. 22, 2004	1:19	0:19	MODIS Lunar Calibration Roll Maneuver #23	Roll Angle:-4.1991deg.

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Nov. 18, 2004	20:09	Nov. 20, 2004	14:22	42:13	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 18, 2004	14:27	Nov. 18, 2004	16:32	2:05	Drag Makeup(DMU) Maneuver #18	
Nov. 05, 2004	15:47	Nov. 05, 2004	16:39	0:52	No Data due to power-off/on of the AMSR-E for recovery operations	
Nov. 04, 2004	16:47				Data Deficit of AMSR-E 89GHz receiver A. (Not available yet)	
Oct. 23, 2004	22:13	Oct. 23, 2004	22:41	0:28	MODIS Lunar Calibration Roll Maneuver #22	Roll Angle:-16.6865deg.
Oct. 12, 2004	15:39	Oct. 12, 2004	16:11	0:32	Inclination Adjust Maneuver (Delta-I) #7	
Oct. 05, 2004	15:34	Oct. 05, 2004	16:00	0:26	Inclination Adjust Maneuver (Delta-I) #6	
Sep. 28, 2004	15:29	Sep. 28, 2004	16:00	0:31	Inclination Adjust Maneuver (Delta-I) #5	
Sep. 21, 2004	15:23	Sep. 21, 2004	15:55	0:32	Inclination Adjust Maneuver (Delta-I) #4	
Sep. 14, 2004	15:18	Sep. 14, 2004	15:49	0:31	Inclination Adjust Maneuver (Delta-I) #3	
Aug. 05, 2004	9:46	Aug. 05, 2004	11:31	1:45	Drag Makeup(DMU) Maneuver #17	
Jun. 30, 2004	12:56				89GHz AV Receiver Gain Change (GAIN=x23)	
Jun. 28, 2004	12:06	Jun. 28, 2004	12:34	0:28	MODIS Lunar Calibration Roll Maneuver #21	Roll Angle:-16.0286deg.
Jun. 22, 2004	20:21	Jun. 22, 2004	21:57	1:36	Drag Makeup(DMU) Maneuver #16	
Jun. 02, 2004	1:35				Set the MGC Value to GAIN=x40 and OFFSET=x00.	
Jun. 02, 2004	1:34				Switch the AMSR-E 89GHz AV Receiver Mode from the Auto Gain Control(AGC) to the Manual Gain Control(MGC).	
Jun. 02, 2004	0:31	Jun. 02, 2004	1:30	0:59	No Data due to SPS reset	
May. 30, 2004	4:18	May. 30, 2004	4:40	0:22	MODIS Lunar Calibration Roll Maneuver #20	Roll Angle:-7.8218deg.
Apr. 30, 2004	17:04	Apr. 30, 2004	17:26	0:22	MODIS Lunar Calibration Roll Maneuver #19	Roll Angle:-6.9795deg.
Apr. 21, 2004	15:50	Apr. 21, 2004	17:30	1:40	Drag Makeup(DMU) Maneuver #15	
Apr. 01, 2004	2:33	Apr. 01, 2004	2:59	0:26	MODIS Lunar Calibration Roll Maneuver #18	Roll Angle:-12.1168deg.
Mar. 31, 2004	13:30	Mar. 31, 2004	16:45	1:45	Inclination Adjust Maneuver (Delta-I) (Data partly reprocessed with definitive ephemeris for erroneous predictive ephemeris)	
Mar. 12, 2004					AMSR-E High Level Product Data Release(Ver2.00)	
Mar. 04, 2004	2:34				Set the MGC Value to GAIN=x40 and OFFSET=x00.	
Mar. 04, 2004	2:33				Switch the AMSR-E 89GHz AV Receiver Mode from the Auto Gain Control(AGC) to the Manual Gain Control(MGC).	
Mar. 04, 2004	1:35	Mar. 04, 2004	2:31	0:56	No Data due to SPS reset	
Mar. 02, 2004	7:13	Mar. 02, 2004	7:44	0:31	MODIS Lunar Calibration Roll Maneuver #17	Roll Angle:-14.1956deg.
Feb. 01, 2004	11:57	Feb. 01, 2004	12:25	0:28	MODIS Lunar Calibration Roll Maneuver #16	Roll Angle:-11.027deg.
Jan. 29, 2004	13:16				Set the MGC Value to GAIN=x40 and OFFSET=x00. (The corresponding scene is P1AME040129076MD)	
Jan. 29, 2004	13:13				Switch the AMSR-E 89GHz AV Receiver Mode from the Auto Gain Control(AGC) to the Manual Gain Control(MGC).	
Jan. 21, 2004	16:00	Jan. 21, 2004	18:30	2:30	Drag Makeup(DMU) Maneuver #14	
Jan. 02, 2004	15:10	Jan. 02, 2004	15:27	0:17	MODIS Lunar Calibration Roll Maneuver #15	Roll Angle:-3.3968deg.
Dec. 17, 2003	17:10	Dec. 17, 2003	18:08	0:58	Drag Makeup(DMU) Maneuver #13	
Dec. 12, 2003	9:00				AMSR-E CoRegistrationParameterA1&A2 changed (from P1AME031212220MA)	
Dec. 03, 2003	18:34	Dec. 03, 2003	18:50	0:16	MODIS Lunar Calibration Roll Maneuver #14	Roll Angle:-2.26deg.
Nov. 18, 2003	15:33	Nov. 19, 2003	19:03	27:30	No Data due to Sleep Mode to avoid Leonid meteor shower	

From (UT)		To (UT)		Duration	Event	Remarks
date	time	date	time			
Nov. 13, 2003	5:23	Nov. 14, 2003	6:07	24:44	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 05, 2003	15:00	Nov. 05, 2003	17:50	2:50	Drag Makeup(DMU) Maneuver #12	
Nov. 04, 2003	9:12	Nov. 04, 2003	9:39	0:26	MODIS Lunar Calibration Roll Maneuver #13	Roll Angle:-13.73deg.
Oct. 29, 2003	15:58	Nov. 06, 2003	11:59	188:01	No Data due to Sleep mode to avoid electro-magnetic storm caused by high solar activities	
Oct. 07, 2003	15:03	Oct. 07, 2003	16:45	1:42	Inclination Adjust Maneuver (Delta-I) (Data partly reprocessed with definitive ephemeris for erroneous predictive ephemeris)	
Sep. 19, 2003					AMSR-E High Level Product Data Release(Ver.1.00 WV,AP,SSW,SST,IC)	
Aug. 12, 2003	12:44	Aug. 12, 2003	13:23	0:39	Test Delta-I Maneuver (Data partly reprocessed with definitive ephemeris for erroneous predictive ephemeris)	
Jul. 09, 2003	18:09	Jul. 09, 2003	18:38	0:29	MODIS Lunar Calibration Roll Maneuver #12	Roll Angle:-18.4876deg.
Jun. 18, 2003					AMSR-E Level1 Product Data Release	
Jun. 12, 2003	14:59	Jun. 12, 2003	16:41	1:42	Drag Makeup(DMU) Maneuver #11	
Jun. 10, 2003	12:02	Jun. 10, 2003	12:25	0:23	MODIS Lunar Calibration Roll Maneuver #11	Roll Angle:-9.6692deg.
May. 12, 2003	5:47	May. 12, 2003	6:08	0:21	MODIS Lunar Calibration Roll Maneuver #10	Roll Angle:-6.7176deg.
Apr. 24, 2003	16:03	Apr. 24, 2003	18:19	2:16	Drag Makeup(DMU) Maneuver #10	
Apr. 12, 2003	20:13	Apr. 12, 2003	20:37	0:24	MODIS Lunar Calibration Roll Maneuver #9	Roll Angle:-10.4528deg.
Mar. 19, 2003	15:33	Mar. 19, 2003	17:07	1:34	Drag Makeup(DMU) Maneuver #9	
Mar. 14, 2003	7:16	Mar. 14, 2003	7:58	0:42	MODIS Lunar Calibration Roll Maneuver #8	Roll Angle:-13.7657deg.
Feb. 12, 2003	13:48	Feb. 12, 2003	14:13	0:25	MODIS Lunar Calibration Roll Maneuver #7	Roll Angle:-11.6949deg.
Jan. 30, 2003	19:33	Jan. 30, 2003	22:08	2:35	Drag Makeup(DMU) Maneuver #8	
Jan. 13, 2003	18:37	Jan. 13, 2003	18:59	0:22	MODIS Lunar Calibration Roll Maneuver #6	Roll Angle:-5.3215deg.
Jan. 03, 2003	15:06	Jan. 03, 2003	16:44	1:38	Drag Makeup(DMU) Maneuver #7	
Dec. 14, 2002	21:59	Dec. 14, 2002	22:14	0:15	MODIS Lunar Calibration Roll Maneuver #5	Roll Angle:-1.4207deg.
Dec. 12, 2002	14:49	Dec. 12, 2002	16:29	1:40	Drag Makeup(DMU) Maneuver #6	
Nov. 19, 2002	0:14	Nov. 19, 2002	13:29	13:15	No Data due to Sleep Mode to avoid Leonid meteor shower	
Nov. 15, 2002	4:29	Nov. 15, 2002	4:53	0:24	MODIS Lunar Calibration Roll Maneuver #4	Roll Angle:-9.8076deg.
Nov. 13, 2002	14:37	Nov. 13, 2002	16:18	1:41	Drag Makeup(DMU) Maneuver #5	
Oct. 17, 2002	14:49	Oct. 17, 2002	16:40	1:51	Drag Makeup(DMU) Maneuver #4	
Oct. 16, 2002	14:11	Oct. 16, 2002	14:45	0:34	MODIS Lunar Calibration Roll Maneuver #3	Roll Angle:-20.0509deg.
Sep. 24, 2002	1:41	Sep. 24, 2002	1:51	0:10	No Data due to SPS reset, unstable AGC level for the following 100 mintues	
Sep. 12, 2002	1:31	Sep. 20, 2002	1:41	192:10	No data due to LLM	
Aug. 22, 2002	14:54	Aug. 22, 2002	16:40	1:46	Drag Makeup(DMU) Maneuver #3	
Jul. 29, 2002	20:18	Aug. 08, 2002	0:24	220:06	No data due to LLM	
Jul. 19, 2002	21:00	Jul. 19, 2002	21:34	0:34	MODIS Lunar Calibration Roll Maneuver #2	Roll Angle:-19.3543deg.
Jun. 28, 2002	23:02	Jun. 29, 2002	18:25	19:23	HTS (High Temperature Noise Source) temperature out of range for LLM recovery	
Jun. 27, 2002	15:40	Jun. 28, 2002	23:02	31:22	No data due to LLM (Light Load Mode)	
Jun. 20, 2002	16:42	Jun. 20, 2002	16:49	6:46	MODIS Lunar Calibration Roll Maneuver #1	Roll Angle:-11.6745deg.
May. 18, 2002					AMSR-E science data transmission start	
May. 14, 2002					AMSR-E telemetry processing device(IST) operation start	
May. 11, 2002					Orbital data (GBAD) transmission start	
May. 04, 2002					Aqua Launch	