

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
DEC	2	1995	336	1	8:08	Launch
DEC	2	1995	336	1	10:10	Separation from Centaur
DEC	2	1995	336	1	10:14	Telemetry acquired (delayed by ~ 3 min.)
DEC	2	1995	336	1	10:19	Solar Array deployed
DEC	2	1995	336	1	16:48	Fail-over to Gyro Mode
DEC	2	1995	336	1	18:30	High Gain Antenna deployed
DEC	3	1995	337	2	2:04	Thermal Reconfiguration (GOLF Sub.Htr.)
DEC	4	1995	338	3	0:10	MCC1 X-1 Burn
DEC	4	1995	338	3	2:05	ESR-1 (Emergency Sun Reorientation), by roll rate; failure was ACU Reset
DEC	4	1995	338	3	18:00	MCC1 X-2 Burn
DEC	4	1995	338	3	19:18	Fail-over to Gyro Mode
DEC	14	1995	348	13	0:27	Momentum Management; +3500/+600/+1000
DEC	14	1995	348	13	5:50	Roll to nominal attitude complete
DEC	14	1995	348	13	16:15	Fail-over to Gyro Mode
DEC	15	1995	349	14	4:34	Fail-over to Gyro Mode
DEC	17	1995	351	16	6:46	Fail-over to Gyro Mode
DEC	18	1995	352	17	16:41	Tape Recorder Maintenance
DEC	23	1995	357	22	13:37	Onboard Time Frequency Adjustment
DEC	26	1995	360	25	23:33	Onboard Time Frequency Adjustment

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JAN	5	1996	5	35	5:40	MCC2 X-1 Burn
JAN	13	1996	13	43	14:31	Onboard Time Frequency Adjustment
JAN	16	1996	16	46	18:25	Momentum Management; -1200/+1000/+3200
FEB	1	1996	32	62	10:16	Fail-over to Gyro Mode
FEB	14	1996	45	75	17:00	Halo Orbit Insertion Manoeuvre (HOI)
FEB	14	1996	45	75	19:01	Reaction Wheel 4 Commissioning
FEB	16	1996	47	77	16:11	GOLF power cycle for re-boot (4 minutes)
FEB	17	1996	48	78	14:45	Offset Tests:FPSS Pi&Ya; Golf: Ro,Pi,Ya (PCPG)
FEB	21	1996	52	82	5:52	J2 - Golf Oscillation Tests - Yaw (PCPG)
FEB	22	1996	53	83	2:30	J2 - Golf Oscillation Tests - Pitch (PCPG)
FEB	24	1996	55	85	9:52	Fail-over to Gyro Mode
FEB	26	1996	57	87	21:56	Telemetry Submodes 2,3,4 tested
MAR	2	1996	62	92	14:52	Tape Recorder Maintenance
MAR	5	1996	65	95	21:02	Fail-over to Gyro Mode
MAR	7	1996	67	97	13:32	FPSS Pitch reference updated to -810 arcsec
MAR	11	1996	71	101	18:50	COBS patch for ACU Reset Monitoring (via "troubleshoot" function)
MAR	14	1996	74	104	16:13	ACU Patch 5 uplinked (SEU's are screened by "staircase filter"); name:CSEA003
MAR	15	1996	75	105	8:00	GOLF Roll Oscillations +/-45 arcsec for 16 hrs (PCPG)
MAR	18	1996	78	108	21:56	Momentum Management; +2350/-3010/+958
MAR	19	1996	79	109	16:58	J1 Test - 360 degree roll, steps of 30,45 and 90 degrees
MAR	20	1996	80	110	16:45	Wheels Test and MMM: -1200/+1000/+3000
MAR	20	1996	80	110	22:45	Halo Orbit Insertion Manoeuvre (HOI) - Trim
MAR	21	1996	81	111	18:18	GOLF commissions redundant channel
MAR	26	1996	86	116	15:46	VIRGO LOI Door opened with COBS Patch
APR	3	1996	94	124	17:10	J3 - FPSS Trim -10 arcmin North (in 50 min) 20 moves
APR	4	1996	95	125	12:20	J3 - FPSS Trim - 20 arcmin East (in 55 min) 40 moves
APR	13	1996	104	134	16:55	Fail-over to Gyro Mode
APR	16	1996	107	137	23:13	FPSS Pitch Bias set 3.3 arcmin
APR	19	1996	110	140	19:21	Onboard Time Frequency Adjustment
APR	21	1996	112	142	17:11	Fail-over to Gyro Mode
APR	24	1996	115	145		MDI Continuous Coverage, 3 days until 119/08:30
APR	26	1996	117	147	15:32	Fail-over to Gyro Mode
MAY	16	1996	137	167	20:45	Tape Recorder Maintenance
MAY	17	1996	138	168	22:56	Momentum Management; -2000/+1000/-1000
MAY	20	1996	141	171	23:30	Roll 90 degrees for CDS, SUMER (JOP2)
MAY	22	1996	143	173	19:40	Momentum Management; -800/+1000/-800
MAY	23	1996	144	174	0:02	SK-1; X-1; (141 sec)
MAY	23	1996	144	174		MDI Continuous Coverage, 2 months until 206/04:30
MAY	26	1996	147	177	18:18	Fail-over to Gyro Mode
JUN	25	1996	177	207	13:46	Onboard Time Frequency Adjustment
JUN	27	1996	179	209	18:05	Momentum Management; -1200/+1000/+3000
JUL	24	1996	206	236	16:52	Fail-over to Gyro Mode
JUL	26	1996	208	238	19:31	Fail-over to Gyro Mode
JUL	27	1996	209	239	20:39	SWAN powered off until July 29 at 15:01
JUL	30	1996	212	242	18:41	Fail-over to Gyro Mode
AUG	18	1996	231	261		MDI Continuous Coverage, 3 days until 235/03:10
AUG	18	1996	231	261	19:06	CTOF (CELIAS) power -off until Nov 29,96
SEP	3	1996	247	277	17:55	Fail-over to Gyro Mode
SEP	9	1996	253	283	15:48	VIRGO "safe " mode (low power) until Sept.12, 19:50
SEP	11	1996	255	285	19:59	Reaction Wheel 4 maintenance
SEP	11	1996	255	285	20:42	Momentum Management; -1200/+1000/+3000
SEP	11	1996	255	285	23:15	SK-2; X-1; (210 sec)
SEP	12	1996	256	286	15:15	ACU Patch 6 uplinked ("star jump filter"); name: CSEA004
SEP	17	1996	261	291		MDI Continuous Coverage, 3 days until 265/01:35
OCT	1	1996	275	305	15:49	Tape Recorder Maintenance
OCT	4	1996	278	308	14:50	Onboard Time Frequency Adjustment
OCT	13	1996	287	317	2:28	Fail-over to Gyro Mode
OCT	13	1996	287	317	18:32	Fail-over to Gyro Mode

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OCT	17	1996	291	321		MDI Continuous Coverage, 3 days until 295/07:30
OCT	20	1996	294	324	21:26	Fail-over to Gyro Mode
NOV	9	1996	314	344	21:53	Momentum Management; +1800/+800/+3000
NOV	10	1996	315	345	15:41	Fail-over to Gyro Mode
NOV	16	1996	321	351		MDI Continuous Coverage, 3 days until 325/00:30
NOV	20	1996	325	355	21:05	FPSS Off-pointing by 10 arcsec Pitch and Yaw
NOV	21	1996	326	356	16:29	Roll to 45 and 90 degrees
NOV	22	1996	327	357	7:15	Roll back from 90 to 0 degrees
NOV	22	1996	327	357	17:07	Momentum Management; +500/+1000/+2500
NOV	30	1996	335	365	16:22	Fail-over to Gyro Mode
DEC	2	1996	337	367	15:23	Tape Recorder Maintenance
DEC	4	1996	339	369	18:30	Telemetry Submode 2 tested for 4 hrs
DEC	5	1996	340	370	13:00	Telemetry Submode 3 tested for 3 hrs
DEC	15	1996	350	380		MDI Continuous Coverage, 3 days until 354/01:50

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JAN	14	1997	14	410	16:39	SK-3; (X 1=16sec, X 2=3.6sec)
JAN	14	1997	14	410	23:53	Fail-over to Gyro Mode
JAN	15	1997	15	411		MDI Continuous Coverage, 3 days (until 018/21:50)
JAN	21	1997	21	417	21:55	Fail-over to Gyro Mode
JAN	30	1997	30	426	14:44	SSU staircase threshold for fail-over to gyro: increased from 5 to 30
FEB	1	1997	32	428	17:30	Tape Recorder Maintenance
FEB	10	1997	41	437	17:00	Telemetry Submode 5 (new) replaces submode 1
FEB	11	1997	42	438	17:01	Telemetry Submode 6 (new) tested for 4 hrs
FEB	13	1997	44	440		MDI Continuous Coverage, 3 days (until 048/05:30)
FEB	13	1997	44	440	19:41	SEU counter trace with COBS min/max channels 15,16
FEB	15	1997	46	442	10:26	Thermal Reconfiguration (CEPAC/ESU hot)
MAR	6	1997	65	461	9:08	Fail-over to Gyro Mode (2hrs in RMW)
MAR	12	1997	71	467		MDI Continuous Coverage, 3 days (until 075/04:20)
MAR	18	1997	77	473	17:50	Wheel 4 maint. & Momentum Mgmt: 2517/-3103/1615 (till 22:40)
MAR	20	1997	79	475	12:02	Two Rolls for MDI&SWAN; 12 *30 deg.& 4*90 deg. (till 02:33)
MAR	21	1997	80	476	5:37	HGA points to center of earth, not to station D16 from now on
APR	2	1997	92	488	17:45	Tape Recorder Maintenance
APR	10	1997	100	496	10:10	Fail-over to Gyro Mode (6.1 hrs in RMW)
APR	11	1997	101	497	17:09	Mom. Mgmt. (-501/512/1589)
APR	11	1997	101	497		SK-4; Delta-V = - 0.19 m/s, burn time 1.5 min, fuel used 0.21 kg; NM at 22:50
APR	13	1997	103	499		MDI Continuous Coverage, 3 months (until 195/04:20)
APR	23	1997	113	509	3:20	Spacecraft Receiver 1 lost lock
APR	28	1997	118	514	19:51	Spacecraft Receiver 1 lock frequency found @ 2066.86 Mhz
MAY	2	1997	122	518	14:59	OBT Frequency Adjustment
MAY	19	1997	139	535		Medoc Campaign #1, run for 3 weeks until June 6,1997
MAY	29	1997	149	545	9:28	Fail-over to Gyro Mode (3 hrs in RMW)
JUN	1	1997	152	548	21:00	Tape Recorder Maintenance
JUN	13	1997	164	560		SSU Staircase Filter changed from 30 to 60 in AOCSS Software
AUG	1	1997	213	609	16:00	Tape Recorder Maintenance
AUG	1	1997	213	609	20:26	Fail-over to Gyro Mode (52 min in RMW)
AUG	10	1997	222	618		MDI Continuous Coverage, 3 days (until 226/03:50)
SEP	1	1997	244	640	15:33	Momentum Management preparing for roll; fuel 53 gr.;done 18:36
SEP	2	1997	245	641	14:50	Fail-over to Gyro Mode (75 min in RMW)
SEP	3	1997	246	642	8:32	Roll;dwll: @ 45 deg. 1.5 hrs, @ 90 deg. 12 hrs; done 247/00:09
SEP	3	1997	246	642	16:06	Fail-over to Gyro Mode (114 min in RMW) during dwell @ 90 deg
SEP	4	1997	247	643	1:00	Switch to Communications Back-up (TM low rate), recovered: 7:39
SEP	4	1997	247	643	16:51	Wheel 4 Maintenance & Mom. Mgmt. (-500/500/1600); done 19:00
SEP	4	1997	247	643	21:49	SK-5; Delta-V = - 1.9 m/s, burn time 15.5 min, fuel used 2 kg; done 00:18
SEP	11	1997	254	650		MDI Continuous Coverage, 3 days (until 258/05:20)
SEP	25	1997	268	664	19:07	Test of new TM submode 3, until 24:00
SEP	26	1997	268	664	15:10	Test of new TM submode 2, until 19:05
OCT	7	1997	280	676		MDI Continuous Coverage, 3 days (until Oct.11, 04:35)
OCT	8	1997	281	677	13:30	CDS processor swap (to remedy the watch dog triggering)
OCT	13	1997	286	682	22:14	Fail-over to Gyro Mode (2 hrs in RMW)
OCT	27	1997	300	696		Medoc Campaign #2, run for 3 weeks until Nov.9,1997
OCT	30	1997	303	699	15:02	Fail-over to Gyro Mode (50 min in RMW)
NOV	5	1997	309	705		MDI Continuous Coverage, until Nov. 9 at 06:00)
NOV	6	1997	310	706	17:31	Fail-over to Gyro Mode (76 min in RMW) due to X9.4 flare in AR8100
NOV	7	1997	311	707	0:51	Fail-over to Gyro Mode, 3 times (4 hrs, 41 min total in RMW)
NOV	19	1997	323	719	14:40	ESR-2 , by off-pointing (ACU power failure), recovered Nov.20 at 15:43
NOV	20	1997	324	720	10:20	Switch to Communications Back-up (TM low rate), recovered:12:33
NOV	29	1997	333	729	14:05	Wheel 4 Maint.,Mom. Mgmt. (3000/500/1800)
NOV	29	1997	333	729	20:45	SK-6, Delta -V = + 0.04 m/s, 15 sec burn, fuel 0.03 kg
DEC	11	1997	345	741		MDI Continuous Coverage, (until Dec.15, 07:00)
DEC	15	1997	349	745	14:45	OBT Frequency Adjustment
DEC	19	1997	353	749	18:00	Mom. Mgmt. (3000/500/1800) & SK 07; done 20:38 (result of ESR)
DEC	19	1997	353	749	20:30	SK-7, Delta -V = - 0.4 m/s, 3min burn, fuel 0.42 kg

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JAN	30	1998	30	791	1:54	Fail-over to Gyro Mode (2 hours in RMW)
FEB	27	1998	58	819	23:49	Fail-over to Gyro Mode (1 hr, 42 min in RMW)
MAR	2	1998	61	822	14:00	New Telemetry Subformat 3 test, ran until Warm Start-up
MAR	3	1998	62	823	9:02	DHSS Warm Start-Up
MAR	3	1998	62	823	19:03	ESR-3 by off-pointing
MAR	3	1998	62	823	22:53	ESR-4 by roll rate; back to Normal Mode: March 5 at 00:04 UT
MAR	14	1998	73	834		OBT Frequency Adjustment.
MAR	25	1998	85	846	2:40	VIRGO "safe" mode (low power) until Mar. 26, @00:00
APR	8	1998	98	859		OBT Frequency Adjustment.
APR	10	1998	100	861	11:13	Fail-over to Gyro Mode (2 hrs 26 min in RMW)
APR	17	1998	107	868	18:52	SK-8, Delta V = 1.4 m/sec, 11 min burn, 1.5kg fuel
APR	20	1998	110	871	3:58	Fail-over to Gyro Mode (2 hrs in RMW)
MAY	1	1998	121	882	17:35	Fail-over to Gyro-Mode (1 hr, 20 min in RMW)
MAY	1	1998	121	882		MDI Continuous Coverage (until May 7, 21:30 UT)
JUN	11	1998	162	923		MDI Continuous Coverage (until June 18, 05:30 UT)
JUN	24	1998	175	936	23:16	ESR-5 by (false) roll rate
JUN	25	1998	176	937	2:35	ESR-6 by roll rate
JUN	25	1998	176	937	4:38	ESR-7 by off-pointing
JUN	25	1998	176	937	4:43	Loss of Telemetry
JUL	23	1998	204	965	10:00	RADAR from DSN & Arecibo determine SOHO position and Spin Rate
AUG	3	1998	215	976	22:51	SOHO Telemetry carrier signal received by DSN
AUG	8	1998	220	981	23:14	Reception of Telemetry, Batteries charging
AUG	9	1998	221	982		Payload RTU switched ON
AUG	12	1998	224	985	23:39	Begin of hydrazine tank thawing
AUG	28	1998	240	1001	23:02	Completion of hydrazine tank thawing;
AUG	30	1998	242	1003		Begin of hydrazine lines thawing
SEP	16	1998	259	1020	5:45	Begin of Attitude Recovery
SEP	16	1998	259	1020	18:29	ESR-8 (Commanded as part of the recovery)
SEP	16	1998	259	1020	18:30	SOHO locks onto the sun
SEP	22	1998	265	1026	19:35	ESR-9 by (false) off-pointing
SEP	22	1998	265	1026	21:32	DHSS Warm start-up
SEP	23	1998	266	1027	16:58	Attitude Control in Roll Maneuver Wheels Mode
SEP	25	1998	268	1029	18:00	SK-9, Delta - V = - 6.21 m/sec, 45.5 min burn, 6.7 kg fuel (in 2 segments)
SEP	25	1998	268	1029	19:52	Attitude Control in Normal Mode
OCT	1	1998	274	1035	12:15	SSU Patch, repeated on Oct.2
OCT	4	1998	277	1038	13:15	Fail-over to Gyro Mode (0.5 hrs in RMW)
OCT	5	1998	278	1039	18:20	SUMER power ON post recovery
OCT	6	1998	279	1040	17:53	VIRGO power ON post recovery
OCT	7	1998	280	1041	18:52	Offset -198 arcsec
OCT	7	1998	280	1041	13:55	Fail-over to Gyro Mode (0.5 hrs in RMW)
OCT	8	1998	281	1042	17:38	GOLF power ON post recovery
OCT	9	1998	282	1043	10:35	CEPAC power ON post recovery
OCT	10	1998	283	1044	17:28	UVCS power ON post recovery
OCT	12	1998	285	1046	19:42	MDI power ON post recovery
OCT	13	1998	286	1047	17:22	LASCO power ON post recovery
OCT	12	1998	286	1047	17:26	Fail-over to Gyro Mode (0.5 hrs in RMW)
OCT	13	1998	287	1048	15:46	OSR & FPSS duty cycle to 20%, to zero Oct 14
OCT	16	1998	289	1050	21:42	Mom. Mgmt. (-666/602/2357) & roll from 53 to 3 deg
OCT	16	1998	289	1050		SK-10, Delta - V = 2.4 m/sec
OCT	17	1998	290	1051	8:17	Fail-over to Gyro Mode (1.7 hrs in RMW)
OCT	17	1998	290	1051	18:52	Fail-over to Gyro Mode (0.4 hrs in RMW)
OCT	17	1998	290	1051	19:51	CDS power ON post recovery
OCT	17	1998	290	1051	21:11	Fail-over to Gyro Mode (0.6 hrs in RMW)
OCT	18	1998	291	1052	17:23	SWAN power ON post recovery
OCT	19	1998	292	1053	18:17	Close LV-B
OCT	23	1998	296	1057	15:35	X-Panel duty cycle decreased by 20% (TCS2, TCS3)
OCT	24	1998	297	1058	17:59	CELIAS power ON post recovery
NOV	4	1998	308	1069		Instrument Recommissioning Ends

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NOV	12	1998	316	1077		Instrument Prep. for Leonids Begins
NOV	13	1998	317	1078	19:46	Mom. Mgmt (-719/911/1173) & SK-11 (2m/sec)
NOV	15	1998	319	1080	18:30	Roll to -120 degrees (protect for Leonids)
NOV	20	1998	324	1085		SSU Patch; this time successful
NOV	22	1998	326	1087		Instrument Recovery from Leonids Ends
DEC	21	1998	355	1116	17:49	ESR-10 by off-pointing (loss of the last gyro)
DEC	21	1998	355	1116	23:30	Started with roll rate braking (thruster 5B)

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JAN	7	1999	7	1133	22:40	SK-12 (in ESR), Delta-V = -8.1 m/s, segment 1/2/3/4 = 5/15/28/15 min, fuel 8.6 kg
JAN	8	1999	8	1134	15:47	Gyro B Test
JAN	8	1999	8	1134	19:58	Start reduction of yaw rate
JAN	19	1999	19	1145	18:30	SK-13 (in ESR), Delta-V = - 8.6 m/s, segment 1/2/3: 20/30/20 min, fuel 9.2 kg
JAN	20	1999	20	1146		Reaction wheels spinning and wheel 4 maintenance
JAN	26	1999	26	1152	19:00	SK-14 (in ESR), Delta-V =-3.9m/s ; segment 1/2/3 = 5/21/1 min, fuel 4.27 kg
JAN	28	1999	28	1154		Flight test of FPSS raw data processing
JAN	29	1999	29	1155		Preparation of ESR exit maneuver (ACU & SSU patches)
JAN	30	1999	30	1156		ESR exit maneuver
JAN	30	1999	30	1156	17:45	In RMW (Roll Angle -63 deg); mom mgt 21:10
JAN	30	1999	30	1156	22:57	DHS Reconfiguration
FEB	1	1999	32	1158	19:15	SK-15 (in RMW), Delta-V = +0.32 m/s, segment 1/2 = 10/25 min; fuel: 0.27 kg
FEB	1	1999	32	1158	22:12	DHS Reconfiguration
FEB	2	1999	33	1159	16:11	Transition Tests RMW/NM
FEB	2	1999	33	1159	19:12	Back to Normal Mode
FEB	5	1999	36	1162	15:59	Tape Recorder Maintenance
FEB	14	1999	45	1171	13:53	ESR-11 , by off-pointing
FEB	18	1999	49	1175	18:52	Back to Normal Mode (Roll Angle -120 deg), mom mgt 15:20
MAR	3	1999	62	1188	16:05	Mom.Mgmt, 4 segments: yaw/roll/pitch/yaw;final speeds: 600/-750/600 rpm
MAR	4	1999	63	1189	16:18	Roll by 120 degrees to 0.653; roll trim to - 0.109 degrees; 198 arcsec yaw off-set 23:03
MAR	4	1999	63	1189		Loss of SSU Patch during S/C roll.
MAR	5	1999	64	1190	17:35	Mom.Mgmt, 3 segments: pitch/yaw/roll;final speeds: 2000/2000/-2000 rpm; 20:05 done
MAR	5	1999	64	1190	20:30	SK-16, Delta V = -11.87 cm/sec; 4 segments: jets 1/2/4/6: 52/52/2/2 sec on-time
MAR	5	1999	64	1190	21:30	Mom.Mgmt, 3 segments: roll/yaw/pitch;final speeds: 3000/500/-1700 rpm, 22:30 done
MAR	6	1999	65	1191	19:25	SSU SEU Flag (Fail-over to no roll control); back to Normal Mode 20:00
MAR	8	1999	67	1193	16:00	Roll trim by 1645 arcsec (0.45 degrees) for RSL activation at 17:25
MAR	13	1999	72	1198		MDI Continuous Coverage, planned until June 14 at 01:50
MAR	15	1999	74	1200	16:48	Roll trim by 378.86 arcsec (RSL correction)
MAR	18	1999	77	1203		SSU-A: heater for startracker head switched off
APR	9	1999	99	1225		RSL preparation on ground changed to skip pixel boundaries
APR	29	1999	119	1245	19:09	SSU SEU Flag (Fail-over to no roll control); back to Normal Mode 20:26
MAY	10	1999	130	1256		Medoc Campaign #3, run for 3 weeks until May 31,1999
MAY	11	1999	131	1257	17:37	Gyro B power off (all 3 gyros are off)
MAY	18	1999	138	1264	14:00	Mom.Mgmt, 3 segments: roll/pitch/yaw; final speeds: -581/762/1877 rpm; 17:00 done
MAY	20	1999	140	1266	17:07	SSU SEU Flag (Fail-over to no roll control); back to Normal Mode 18:31
JUN	11	1999	162	1288	19:49	SSU Staircase Filter changed from 60 to 600 in AOCS Software
JUN	14	1999	165	1291	13:10	Tape Recorder Maintenance
JUN	17	1999	168	1294	20:30	SK-17, Delta V = 0.46m/sec; 3 segments: jets 2/3/4: 3.5/155/151 sec on-time
JUN	17	1999	168	1294	23:00	Mom.Mgmt, 3 segments: roll/yaw/pitch;final speeds: -520/520/1900 rpm, 00:00 done
AUG	27	1999	239	1365	12:33	SSU SEU Flag (Fail-over to no roll control); back to Normal Mode 12:42
SEP	24	1999	267	1393		Gyroless Flight Comm.: AOCS Software part 1 upload
SEP	27	1999	270	1396		Gyroless Flight Comm.: AOCS Software part 2 and COBS upload; test of CRP,RMW,NM
SEP	28	1999	271	1397		Gyroless Flight Comm.: star swap, P/Y/R profiles in NM, protection functions, Mom mgt
SEP	29	1999	272	1398	14:55	Gyroless Flight Comm.: P/Y profiles in CRP, 1st part of 360 deg. roll: 8, 10 and 54 deg.
SEP	30	1999	273	1399	10:30	Gyroless Flight Comm.: final part of 360 deg.roll: 90, 105 and 90 deg.
OCT	1	1999	274	1400		Gyroless Flight Comm.: SSU patch, profiles P/Y/R in RMW, fallback to CRP & recovery
OCT	2	1999	275	1401		Gyroless Flight Comm.: Mom.Mgt, RW4 maint., Mom.Mgt, SK-18 (delta V=0.05m/sec)
OCT	4	1999	277	1403		Gyroless Flight Comm.: test of routine ops (release guide star, RSL uplink, recover star
OCT	6	1999	279	1405		Medoc Campaign #4, run until Oct.17,1999
OCT	13	1999	286	1412		MDI Continuous Coverage, planned until Oct.19 at 12:45 UT
OCT	21	1999	294	1420		Tape Recorder Maintenance
NOV	8	1999	312	1438		Instruments Prep. for Leonides begins
NOV	9	1999	313	1439	20:34	Mom.Mgmt, 3 segments: jets 5/4/1;final speeds: -600/800/1500 rpm, done 21:48
NOV	9	1999	313	1439		MDI Continuous Coverage, planned until Nov.16,13:30 UT
NOV	16	1999	320	1446	17:20	Leonides roll in CRP: -113.42 deg. to position -120.992 deg.; TM in MR; SSR, SSU off
NOV	19	1999	323	1449	14:39	Leonides roll back in CRP: -114 deg. to position -6.12 deg.; TM in MR; done 18:30
NOV	19	1999	323	1449	22:16	Mom.Mgmt, 1 segment : jet 4; final speeds: 2106/1439/-2127 rpm, done 23:40
NOV	20	1999	324	1450	0:20	SK-19, Delta V = 6.8 cm/sec; jets 1/2/4/6: 27.9/28.4/1/1.3 sec on-time

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
NOV	20	1999	324	1450	1:00	Mom.Mgmt, 2 segm.:jets 1/5; speeds: 2986/511/-1285 rpm, Hx=10.52 Nms; done 1:45
NOV	22	1999	326	1452		Instruments Recovery from Leonides Ends
NOV	28	1999	332	1458	11:55	ESR-12 , triggered by ACU Reset Monitoring
NOV	29	1999	333	1459	18:35	Recovery to CRP, roll angle -125 deg
NOV	30	1999	334	1460	1:13	Mom.Mgmt, 2 segments : jets 5/2; final speeds: 2021/-2389/1967 rpm, done 15:40
NOV	30	1999	334	1460	16:20	roll-back by 117.22 deg; to -7.219 deg; done 20:16
DEC	1	1999	335	1461	15:00	Mom.Mgmt, 3 segments : jets 4/2/5; final speeds: 1750/1750/-1750 rpm, done 16:40
DEC	1	1999	335	1461	18:00	SK-20, Delta V = 0.364 m/sec; jets 1/2/4/6; 148/151/5/6 sec. on-time
DEC	1	1999	335	1461	18:09	Guide star loss during station keeping; CRP mode fails to control the roll
DEC	1	1999	335	1461	18:43	ESR-13 , triggered from ground; no roll control in CRP due to ACU TM buffer overrun
DEC	2	1999	336	1462	19:42	Recovery to CRP, roll angle -67.67 deg
DEC	8	1999	342	1468		MDI Continuous Coverage, planned until Dec.13 at 14:00 UT
DEC	8	1999	342	1468	15:12	AOCS patch 11 uploaded (preliminary fix of the ACU S/W to clear ACU errors in TM)
DEC	8	1999	342	1468	16:45	Mom.Mgmt, 3 segments : jets 5/1/3; final speeds: 730/-1615/2485 rpm, done 17:42
DEC	8	1999	342	1468	19:52	roll-back by 69.0 deg; to -6.565 deg; done 21:32
DEC	9	1999	343	1469	12:25	Mom.Mgmt, 2 segments : jets 4/2; final speeds: 1624/1622/-1690 rpm, done 13:48
DEC	9	1999	343	1469	14:05	SK-21, delta v = 0.73 m/s; in 4 segm.; jets 1/2/4/6; final speeds: 1680/1357/-1493 rpm
DEC	9	1999	343	1469	21:25	Mom.Mgmt, 3 segm.: jets 4/1/5; final rpm's: 2790/609/-1292, done 23:12; Hx=10.1Nms
DEC	10	1999	344	1470	1:00	Back in Normal Mode
DEC	29	1999	363	1489	17:32	UVCS closed door in anticipation of Y2K problems

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	7	2000	7	1498	0:28	ESR-14, triggered by FSPAAD
JAN	10	2000	10	1501	15:15	roll-back to -6 deg; Mom.Mgmt (19:00 UT), jets 5/1/4, to 1741/-1744/1764 rpm;
JAN	10	2000	10	1501	20:20	SK-22, 3 segm., jets 1/2/4/6, deltaV=0.52 m/sec
JAN	11	2000	11	1502	15:10	Mom.Mgmt, jets 2/4, to 2565/867/-1539 rpm; Hx=9.0 Nms
JAN	11	2000	11	1502	18:54	Normal Mode
JAN	19	2000	19	1510	11:42	Automatic star swap #1
FEB	8	2000	39	1530	14:39	Fall-back to CRP, back to Normal Mode 20:11
FEB	10	2000	41	1532		MDI Continuous, planned until February 15 at 07:50 UT
MAR	7	2000	67	1558		Uplink/ flight commissioning of ACU patch 9, patch 10, patch 12, patch 13 (until Mar.9)
MAR	23	2000	83	1574	15:36	Reaction Wheel 4 maintenance, 21:25: SK-23, jets 1/2/4/6, deltaV=0.23 m/sec
MAR	23	2000	83	1574	22:30	Mom.Mgmt, 7 burns, final speeds: -517/511/1512 rpm; Hx=7.4 Nms, in NM at 00:50
APR	3	2000	94	1585		MDI continuous 3 month contact. First month best effort; prime from May 9-July 11
MAY	1	2000	122	1613		Medoc Campaign #5; until May 21
JUL	14	2000	196	1687	10:15	Proton Flare X.5.7 in AR 9077; 24000 particle flux units; UVCS, CDS& CTOFcmd'd to safe status
JUL	14	2000	196	1687	14:09	3 Starswaps by AOCS due to the flare (at 14:09, 17:21 and 197/10:03)
JUL	18	2000	200	1691	14:00	Mom.Mgmt, burn 1 jet 5, 30 min, speeds: -1518/1169/2020 rpm;
JUL	18	2000	200	1691	15:00	SK-24, jets 1,2,4,6; two burns: 74&14 min, delta V: 0.52 & 0.09 m/sec
JUL	18	2000	200	1691	18:30	Mom.Mgmt, burn 2 jet 4, 18 min, speeds: -903/1284/1237rpm;
JUL	18	2000	200	1691	19:00	Mom.Mgmt, burn 3 jet 1, 19 min, speeds: -515/530/1614 rpm; overall fuel use: 0.68 kg
AUG	15	2000	228	1719		MDI continuous until Aug. 29 at 05:50
AUG	26	2000	239	1730	1:06	Starswap by AOCS from star 4 (mv 6.6) to star 1
SEP	20	2000	264	1755		MDI continuous until Sept.26 at 8:45
OCT	18	2000	292	1783		MDI continuous until Oct.23 at 16:00
OCT	27	2000	301	1792	17:07	Mom.Mgmt, jets 5&4, speeds from: -2483/871/1142 rpm to 2491/1429/-2224 rpm;
OCT	27	2000	301	1792	19:50	Pros Clear burn: (2523/1407/-2212); SK-25, jets 1,2,4,6; one burn: 82 min, delta V:- 0.566 m/sec
OCT	27	2000	301	1792	23:05	Mom.Mgmt, jets 3&1; final speeds:2973/530/-1807 rpm, overall fuel use: 0.68 kg
OCT	30	2000	304	1795		MEDOC Campaign #6, until Nov.13
NOV	9	2000	314	1805	0:00	Proton Flare, lasted until Nov 10
NOV	29	2000	334	1825	0:19	ESR-15, due to ACU reset; in CRP @ 10:58; Mom.Mgmt: 3 burns 19:10; start roll 20:58
NOV	30	2000	335	1826	1:55	roll back (142 deg) done; Mom.Mgmt burn 1: 16:15; SK-26: 17:15; Mom.Mgmt burn 2&3: 18:05
NOV	30	2000	335	1826	19:21	back to Normal Mode from ESR

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	14	2001	14	1871	21:02	ESR-16 , caused by ACU Reset
JAN	16	2001	16	1873	0:30	roll back from -55 to -5.6 deg., completed 02:20
JAN	16	2001	16	1873	16:45	Mom.Mgmt burn 1 with jet 4; wheels from 277/-960/1124 to 587/-910/762
JAN	16	2001	16	1873	17:05	Mom.Mgmt burn 2 with jet 5; wheels go to 854/-921/1029
JAN	16	2001	16	1873	17:50	SK-27: thrusters 1,2,4,and 6; delta V: 0.154 m/s, fuel:0.168 kg
JAN	16	2001	16	1873	18:50	Mom.Mgmt burn 1 with jet 3; wheels go from 865/-919/1038 to 390/1049/1644
JAN	16	2001	16	1873	19:15	Mom.Mgmt burn 2 with jet 2; wheels go to 309/351/991; Hx: 5.04 NMS
JAN	16	2001	16	1873	20:35	Roll Profile to trim the final roll attitude (- 5.5 degrees); back in Normal Mode @ 20:49
FEB	8	2001	39	1896	18:26	Offptg. for EIT (arcsec): Yaw: -225,-100,0,68,383,0; Pitch: -225,-100,0,68,383,30,0; done 21:00
FEB	22	2001	53	1910	17:00	SK -28: delta V: 2 mm/s; fuel 1.8 gram
FEB	22	2001	53	1910	17:30	Mom.Mgmt; jets 1 & 3, final speeds: -977; 501; 1023 rpm ;
FEB	28	2001	59	1916		MDI continuous until May 31 at 1:50
APR	2	2001	92	1949	21:51	Proton event - X20 flare with elevated proton counts for 6 days
APR	15	2001	105	1962	14:27	Proton event - X14 flare
APR	18	2001	108	1965	3:00	Proton event
MAY	14	2001	134	1991	0:00	Medoc Campaign #7, until May 28
JUN	28	2001	179	2036	14:10	SK-29: thrusters 2,3,4; delta V: 0.659 m/s, fuel: 0.55 kg; 76 min
JUN	28	2001	179	2036	15:55	Mom.Mgmt; 3 segments: jets 5,4,1; final speeds: -335/327/1092 rpm
JUL	28	2001	209	2066	20:16	ESR-17 , caused by ACU reset; recovery to CRP 3:20
JUL	29	2001	210	2067	17:06	roll back (by 158°) from 162° to 4 °, completed 22:46
JUL	30	2001	211	2068	0:14	Mom.Mgmt; 3 segments: jets 3,1,5; final speeds: -522/585/1024 rpm
JUL	31	2001	212	2069	15:30	SK-30: thrusters 1,2,4,and 6; delta V: 0.185 m/s, fuel: 0.202 kg
AUG	8	2001	220	2077	19:48	ACU Patch 15 uplinked (fixing RAM corruption by selfcheck); name: CSEA015
AUG	16	2001	228	2085	0:30	Proton event; intensity dropping fast, so no instrument needed to be saved
AUG	29	2001	241	2098		MDI continuous until Sept.4 at 8:32
SEP	24	2001	267	2124	9:36	CME; X-ray flare (X2.6), peak @10:38; energetic particle event @12:00, lasting until 269/12:00
OCT	15	2001	288	2145		Medoc Campaign #8, until Oct.26
OCT	24	2001	297	2154		MDI continuous until Oct.30 at 9:25
NOV	3	2001	307	2164	20:09	Start of X-panel heater switch-down in 10% steps; completed Nov. 19 at 18:51
NOV	4	2001	308	2165	16:00	proton event, X1 flare at 16:03; CTOF powered off after limit violation until Nov 19 @ 19:17
NOV	7	2001	311	2168	7:20	SK-31: jets 1,2,4,5; delta V: 0.02 m/s, fuel: 0.02 kg; Mom.Mgmt: 3 segm.; speeds: -487/215/2477
NOV	7	2001	311	2168	16:20	Mom.Mgmt; 3 segm.; speeds: -487/215/2477
NOV	14	2001	318	2175	12:00	Science roll: from 6.5 ° to 330° in 30°steps; back to 270° overnight stay; back to 6.5° next day
NOV	20	2001	324	2181	14:45	Tank heating thresholds changed from 18-23° to 20-21°
NOV	22	2001	327	2184	21:00	Proton event; M9.9 flare, lasting until Nov.24 @ 13:00; CDS safed Nov.24
DEC	26	2001	360	2217	5:00	Proton event, went on until 15:00

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	15	2002	15	2237	16:30	SK-32: jets 1,2,4,6; dV: 0.048m/s; fuel 0.053 kg Mom.Mgmt: 3 segm.; speeds: -322/328/1824
FEB	5	2002	36	2258	2:39	ESR-18: main bus voltage drop. Probable cause: "Tin Wiskers"
FEB	8	2002	39	2261	14:00	SK-33: jets 1,2,4,6; dV: 0.26m/s; Mom.Mgmt: 3 segm.; speeds: -1006/629/898; done 17:05
MAR	13	2002	72	2294	23:06	Both battery1 BDRs configured OFF, since battery 1 lost
MAR	24	2002	83	2305		MDI 60-Day Continuous until 05:00 UT, June 3
APR	21	2002	111	2333	1:30	Proton event - X1 flare
JUN	3	2002	154	2376	13:30	SK-34: jets 2,3,4,5; dV: 0.87m/s; Mom.Mgmt: 3 segm.; speeds: --404/483/1639 rpm; done 17:01
JUN	19	2002	170	2392		MDI 5-Day Continuous until 4:20 June 23
JUN	20	2002	171	2393	10:07	Kevlar Cutter electronics switched ON (to STBY) to reduce batt2 charge current by 20/40 mA
JUL	17	2002	198	2420		MDI 5-Day Continuous until 7:00 July 22
AUG	20	2002	232	2454	11:00	EIT Off-pointing (in NM&HR); 19 steps; max absolute off-pntg (arcsec): yaw: 720; pitch: 798
AUG	28	2002	240	2462		MDI Continuous until 8:30 on September 2
SEP	4	2002	247	2469	17:00	Tank heating limits changed to 25.5/26.5 °C
SEP	26	2002	269	2491		MDI 5-Day Continuous until 17:10 on September 30
OCT	7	2002	280	2502	20:18	Pros ring heater ON with duty cycle 100%
OCT	10	2002	283	2505	15:10	SK-35: jets 2,3,4,5; dV: 0.245m/s; Mom.Mgmt: 3 segm.; speeds: --318/386/1168 rpm; done 17:50
OCT	16	2002	289	2511	13:12	CAE B switched ON to monitor branch B pressure
OCT	21	2002	294	2516	0:00	Medoc Campaign # 10, until Nov.3
NOV	19	2002	323	2545		CAE telemetry swap between CAE A and CAE B once a week for branch press.survey

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	20	2003	20	2607		MDI Best Effort Continuous until February 16
FEB	25	2003	56	2643	15:00	SK-36: jets 2,3,4,5; dV: 0.623m/s; Mom.Mgmt: 3 segm.
FEB	27	2003	58	2645		MDI 5-Day Continuous until 7:55 on March 3
MAR	26	2003	85	2672		MDI 5-Day Continuous until 7:25 on March 31
APR	26	2003	116	2703		MDI Continuous until 6:30 on Apr.27 (original plan was to start Apr.23)
MAY	5	2003	125	2712	0:00	Comms Backup triggered by HGA monitoring on antenna Z-axis, Anomaly S3-0017
MAY	14	2003	134	2721	11:10	GOLF switch-off by itself; turned back ON May 19, 2003
MAY	19	2003	139	2726	0:00	Medoc Campaign # 11, until June 1
MAY	25	2003	145	2732	8:00	Stop HGA movements after 2003/05/25 08:00 (investigation of HGA anomaly; OCD 1779)
JUN	4	2003	155	2742	16:25	HGA pattern/pointing test
JUN	11	2003	162	2749	15:10	SK-37: jets 2,3,4,5; dV: 0.41m/s; Mom.Mgmt: 3 segm.; speeds: --555/402/1417 rpm; done 17:51
JUN	18	2003	169	2756	15:30	HGA pattern/pointing test
JUN	18	2003	169	2756		MDI 5-Day Continuous until 14:45 on June 23
JUN	19	2003	170	2757	18:05	HGA moves ok with APME-A and APME-B motor currents used in parallel
JUN	25	2003	176	2763	18:35	SSR Memory Unit 15 switched back ON
JUN	27	2003	178	2765		Beginning of June keyhole period
JUL	1	2003	182	2769	10:00	HR downlink on 34 m station lost as expected (HGA off-point from LOS to earth: 12.75 °)
JUL	8	2003	189	2776	0:15	ESR-19 caused by FSPAAD
JUL	8	2003	189	2776	17:40	SK-38: jets 1,2,4,6; dV: -0.12 m/s; Mom.Mgmt: 2 segm.; speeds: 1154/-722/-1982 rpm
JUL	8	2003	189	2776	13:24	Roll 180 ° to prepare for next HGA "sweet spot" speeds : --2704/722/432. Position = inverted
JUL	14	2003	195	2782		End of June keyhole period
JUL	14	2003	195	2782	15:47	Warm start-up due to too tightly spaced mode 3 commands (for APME dual coil commands)
JUL	23	2003	204	2791		MDI 5-day continuous til June 28, 14:05
AUG	7	2003	219	2806	14:25	degrees
AUG	27	2003	239	2826		MDI 5-Day Continuous until September 1
SEP	2	2003	245	2832	18:10	Test in Low Rate by 26m station.
SEP	10	2003	253	2840		MDI 60-Day Continuous until November 23
SEP	23	2003	266	2853		Beginning of September keyhole period
SEP	29	2003	272	2859		Transponder Swap (1->2)
OCT	7	2003	280	2867	8:45	SK-39: jets 2,3,4; dV : 0.14m/s
OCT	7	2003	280	2867	9:15	Momentum Management 3 segments. Final speeds --1330/--308/1860 rpm
OCT	7	2003	280	2867	11:10	180 ° Roll, satellite back to regular position. Final speeds : 1561/312/--1630 rpm
OCT	11	2003	284	2871		Transponder Swap (2->1)
OCT	19	2003	292	2879		End of September keyhole period
OCT	20	2003	293	2880		Increase Ground Limits for QTR26 : FPSS temp going up due to aging
OCT	28	2003	301	2888		Proton storm (one guide star swap and one star declared ineligible)
NOV	3	2003	307	2894	20:08	Beginning of Z axis movements for a ten day period as per OCD #1860
NOV	17	2003	321	2908	0:00	MEDOC Campaign #12, until November 30
NOV	17	2003	321	2908	6:05	End of Z axis improvement (OCD#1860)
NOV	17	2003	321	2908	19:30	OCD #1865 Single coil Z axis movement try (post OCD#1860) : failed
DEC	1	2003	335	2922	20:00	Beginning of Z axis movements for a ten day period as per OCD #1873
DEC	11	2003	345	2932	19:00	OCD #1875 Single coil Z axis movement try (post OCD#1873) : failed
DEC	18	2003	352	2939	13:00	OCD#1877 Test to operate SSR and TR simultaneously
DEC	23	2003	357	2944		Beginning of December keyhole period
DEC	26	2003	360	2947		Transponder Swap (1->2)
DEC	30	2003	364	2951	17:00	SK-40: jets 2,3,4; dV : 0.007349 m/s
DEC	30	2003	364	2951	17:45	Momentum Management 3 segments. Final speeds 1200/400/--800 rpm
DEC	30	2003	364	2951	19:00	180 ° Roll, satellite in inverted position. Final speeds : --400/--400/1600 rpm

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	6	2004	6	2958		Transponder Swap (2->1)
JAN	9	2004	9	2961		End of December keyhole period
JAN	28	2004	28	2980		MDI 5-Day Continuous until February 2
JAN	31	2004	31	2983	11:20	First day of telemetry outage (2 minutes duration per day) from Madrid D66 station. RFI with MSG after it has been moved from 10 deg west to 3.6 deg west.
FEB	11	2004	42	2994		MDI 5-Day Continuous until February 16
FEB	22	2004	53	3005	14:22	Last day of telemetry outage (2 minutes duration per day) from Madrid D66 station. RFI with MSG.
FEB	23	2004	54	3006	16:00	GSFC/JPL teleconference about receivers sweep times. Major conclusions: - DSN will do its best to perform only one sweep cycle to lock onto the receivers - SOHO project has agreed that it may take more than one cycle to lock since this longer duration should not harm the spacecraft receivers.
MAR	16	2004	76	3028		Beginning of March keyhole period
MAR	19	2004	79	3031		Transponder Swap (1->2)
MAR	30	2004	90	3042		SK-41: jets 2,3,4; dV : 0.008567 m/s
MAR	30	2004	90	3042		Momentum Management 3 segments. Final speeds --1185/--520/2245 rpm
MAR	30	2004	90	3042		180 ° Roll, satellite back to regular position. Final speeds : 1735/520/--1700 rpm
APR	2	2004	93	3045		VIRGO switched-off by itself; turned back ON Apr 3, 2004
APR	3	2004	94	3046		Transponder Swap (2->1)
APR	7	2004	98	3050		End of March keyhole period
APR	21	2004	112	3064	5:37	ESR 20 triggered by FSPAAD
APR	22	2004	113	3065	7:27	ESR 21 triggered by FSPAAD
APR	22	2004	113	3065	16:12	ESR 22 triggered by FSPAAD
APR	23	2004	114	3066	23:37	ESR 23 triggered by FPSS Sun Presence monitoring
APR	27	2004	118	3070	17:05	SK-42: jets 1,2,4,6; dV: 0.7349 m/s
APR	27	2004	118	3070	19:20	Momentum Management 3 segments. Final speeds: --1275/340/1205 rpm
MAY	24	2004	145	3097		MDI 5-Day Continuous until June 6
JUN	3	2004	155	3107	0:00	MEDOC Campaign #13, until June 17
JUN	16	2004	168	3120		Beginning of June keyhole period
JUN	19	2004	171	3123	18:24	Transponder Swap (1->2)
JUN	22	2004	174	3126		SK-43: jets 2,3,4; dV : 0.476 m/s
JUN	22	2004	174	3126		180 ° Roll, satellite in inverted position. Final speeds : 2250/--665/--1085 rpm
JUN	30	2004	182	3134		Transponder Swap (2->1)
JUL	3	2004	185	3137		End of June keyhole period
JUL	4	2004	186	3138		MDI 60-Day Continuous until September 5
SEP	5	2004	249	3201	6:34	Spacecraft transitioned to CRP mode due to SSU reset. Tracking windows of two stars became too close to each other leading the SSU software into an endless loop.
SEP	11	2004	255	3207		Beginning of September keyhole period
SEP	17	2004	261	3213		Transponder Swap (1->2)
SEP	21	2004	265	3217		180 ° Roll, satellite back to regular position. Final speeds : --1285/430/870 rpm
SEP	21	2004	265	3217		SK-44: jets 1,2,4,6; dV : 0.01516 m/s
SEP	21	2004	265	3217		Momentum Management 3 segments. Final speeds: --435/395/495 rpm
SEP	21	2004	265	3217		"Intermittent recording" patch upload
SEP	22	2004	266	3218		Patch "intermittent recording" test; subset #3
SEP	24	2004	268	3220		Patch "intermittent recording" activation; subset #6
SEP	29	2004	273	3225		SSR dump with "intermittent recording" data. Successful session
OCT	1	2004	275	3227		Transponder Swap (2->1)
OCT	8	2004	282	3234		End of September keyhole period
OCT	22	2004	296	3248		First day of telemetry outage from Madrid D66 station. Suspected RFI with P92-3 USAF satellite.
NOV	3	2004	308	3260		MDI 5-Day Continuous until November 7
NOV	8	2004	313	3265		MEDOC Campaign #14, until November 21
NOV	12	2004	317	3269		Last day of telemetry outage from Madrid D66 station. Suspected RFI with P92-3 USAF satellite. RFI durations of a couple of minutes around 10:45 UT occurred on: Oct 22 & 24; Nov 1,2,3,6,7,10 & 12
DEC	1	2004	336	3288		MDI 5-Day Continuous until December 5
DEC	8	2004	343	3295	21:59	ESR-24 triggered by CSPAAD (false trigger)
DEC	9	2004	344	3296	16:20	--162.346 deg roll + Momentum Management 3 segments as part of the ESR-24 recovery. Final speeds: --600/3400/--1510 rpm

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
DEC	12	2004	347	3299		<i>Beginning of December keyhole period</i>
DEC	16	2004	351	3303		Transponder Swap (1->2)
DEC	21	2004	356	3308		SK-45: jets 1,2,4,6; dV: 0.3358 m/s
DEC	21	2004	356	3308		Momentum Management 3 segments. Final speeds: 1165/455/--835 rpm
DEC	21	2004	356	3308		180 ° Roll, satellite in inverted position. Final speeds: --380/--455/1615 rpm
DEC	26	2004	361	3313		Transponder Swap (2->1)
DEC	26	2004	361	3313	20:00	SSR Memory Unit #11 switched off by itself
DEC	30	2004	365	3317		<i>End of December keyhole period</i>

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	20	2005	20	3338		Major flare (18-21 Jan). Led to many anomalies, in particular multiple star swaps on Jan 20.
JAN	24	2005	24	3342	19:15	SSR Memory Unit #11 switched back ON
FEB	3	2005	34	3352		MDI 4-Day Continuous until February 6
FEB	18	2005	49	3367		FSPAAD state indicated "detected"
MAR	3	2005	62	3380		Beginning of March keyhole period
MAR	10	2005	69	3387		Transponder Swap (1->2)
MAR	22	2005	81	3399		SK-46: jets 2,3,4; dV: 0.1137 m/s
MAR	22	2005	81	3399		Momentum Management 3 segments. Final speeds: --974/--400/2272 rpm
MAR	22	2005	81	3399		180 ° Roll, satellite back to regular position. Final speeds: 1885/400/--1370 rpm
MAR	24	2005	83	3401		Transponder Swap (2->1)
MAR	31	2005	90	3408		End of March keyhole period
MAR	31	2005	90	3408		MDI 5-Day Continuous until April 4
APR	8 & 9	2005	98	3416		GOLF polarizer and quarter wave electronics switched off, substitution heaters (68 & 69) to 30 %
APR	20	2005	110	3428	4:14-14:2	HGA Moved around Z axis by -70 steps (dual coil) to -18.553 deg to eliminate mini-keyholes
APR	27	2005	117	3435		MDI 6-Day Continuous until May 2
MAY	16	2005	136	3454		MEDOC Campaign #15, until June 05
MAY	16	2005	136	3454	22:27	APME A switched OFF (spurious LCL OFF)
MAY	26	2005	146	3464	18:58	APME A switched back ON
JUN	2	2005	153	3471	15:00	HGA moved thru APME A around Y axis by -35 steps to get a fine pulse (whole APME A loop control)
JUN	5	2005	156	3474		Beginning of June keyhole period
JUN	9	2005	160	3478		Transponder Swap (1->2)
JUN	17	2005	168	3486		SK-47: jets 2,3,4; dV: 0.030 m/s
JUN	17	2005	168	3486		Momentum Management 3 segments. Final speeds: 610/390/--1000 rpm
JUN	17	2005	168	3486		180 ° Roll, satellite in inverted position. Final speeds: --615/--385/990 rpm
JUN	17	2005	168	3486		Upload of SSU Patch 2B (One Word Patch)
JUN	17	2005	168	3486		Determine exact fine pulse position vs step counter + move antenna (Y axis) to -4.06875 deg (June 20 16:00)
JUN	18	2005	169	3487	7:54	Star swap from star 1 to star 2
JUN	20	2005	171	3489		Transponder Swap (2->1)
JUN	25	2005	176	3494		End of June keyhole period
JUN	25	2005	176	3494		MDI 60-Day Continuous period until August 30
JUN	27	2005	178	3496	4:00-10:0	Telemetry and Telecommand test with New Norcia Station
JUL	12	2005	193	3511	14:30	FPSS-B comparison with FPSS-A (OCD # 2045)
AUG	30	2005	242	3560		Beginning of September keyhole period
SEP	1	2005	244	3562	18:15	Tape Recorder maintenance
SEP	6	2005	249	3567		Transponder Swap (1->2)
SEP	8	2005	250	3568		SK-48: jets 2,3,4; dV: 0.089 m/s
SEP	8	2005	250	3568		Momentum Management 3 segments. Final speeds: --1495/--425/1500 rpm
SEP	8	2005	250	3568		180 ° Roll, satellite back to regular position. Final speeds: 1080/425/--1910 rpm
SEP	9	2005	252	3570		Star swap
SEP	22	2005	265	3583		Transponder Swap (2->1)
SEP	30	2005	273	3591		End of September keyhole period
OCT	12	2005	285	3603		MDI 5-Day Continuous until October 16
OCT	23	2005	286	3604		Star swap
NOV	9	2005	313	3631		MDI 5-Day Continuous until November 13
NOV	11	2005	315	3633		HGA Y axis movements down from 3/day (@ 00:00, 08:00 and 16:00) to 1/day (@ 00:00) - OCD 2088
DEC	3	2005	337	3655		Beginning of December keyhole period
DEC	6	2005	340	3658		Transponder Swap (1->2)
DEC	14	2005	348	3666		Upload of SSR patch . Software version has been updated from version 2.02 to version 2.03.0 (SEF/DEF + IT2)
DEC	15	2005	349	3667		SK-49: jets 2,3,4; dV: 0.076 m/s
DEC	15	2005	349	3667		Momentum Management 3 segments. Final speeds: 1230/390/--810 rpm
DEC	15	2005	349	3667		180 ° Roll, satellite in inverted position. Final speeds: --430/--380/1605 rpm
DEC	17	2005	351	3669		Transponder Swap (2->1)
DEC	21	2005	355	3673		End of December keyhole period

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	5	2006	5	3688		MDI 3-Day Continuous until January 07
FEB	3	2006	34	3717		MDI 4-Day Continuous until February 06
FEB	3	2006	34	3717		SSR Program Memory Cleanup (OCD 2104)
FEB	22	2006	53	3736		Beginning of "March" keyhole period
FEB	28	2006	59	3742		Transponder Swap (1->2)
MAR	7	2006	66	3749		SK-50: jets 2,3,4; dV: 0.0155 m/s
MAR	7	2006	66	3749		Momentum Management 3 segments. Final speeds: --997/--403/2287 rpm
MAR	13	2006	72	3755		180 ° Roll, satellite back to regular position. Final speeds: 1925/395/--1445 rpm
MAR	16	2006	75	3758		Transponder Swap (2->1)
MAR	22	2006	81	3764		End of March keyhole period
MAR	22	2006	81	3764		MDI 60-Day Continuous period until May 21
MAR	23	2006	82	3765		MEDOC Campaign #16, until April 02
MAR	27	2006	86	3769		Investigations using oversampling facility begin (OCD 2120)
APR	29	2006	119	3802	11:42	SSR Memory Units 0 to F switched off by themselves
MAY	4	2006	124	3807		SSR Memory Units 0 to F switched back ON (OCD 2126)
MAY	27	2006	147	3830		Beginning of "June" keyhole period
MAY	31	2006	151	3834		Transponder Swap (1->2)
JUN	2	2006	153	3836		Tank and branch B PROS pressures equalization (OCD 2130)
JUN	6	2006	157	3840		SK-51: jets 2,3,4; dV: 0.1042 m/s
JUN	6	2006	157	3840		Momentum Management 3 segments. Final speeds: 705/370/--770 rpm
JUN	6	2006	157	3840		180 ° Roll, satellite in inverted position. Final speeds: --405/--370/1070 rpm
JUN	6	2006	157	3840		Back to SSU Patch 2A + Change magnitude check limit (OCD 2129)
JUN	8	2006	159	3842		HGA moved to end of keyhole position
JUN	11	2006	162	3845		Transponder Swap (2->1)
JUN	15	2006	166	3849		End of June keyhole period
JUL	12	2006	193	3876		MDI 4-Day Continuous until July 15
JUL	24	2006	205	3888		Switched MDI TM/TC to redundant side after anomaly S06-0045
AUG	21	2006	233	3916		Beginning of "September" keyhole period
AUG	28	2006	240	3923		Transponder Swap (1->2)
SEP	6	2006	249	3932		SK-52: jets 1,2,4,6; dV: -0.1688 m/s
SEP	6	2006	249	3932		Momentum Management 3 segments. Final speeds: --1505/--395/1695 rpm
SEP	11	2006	254	3937		180 ° Roll, satellite back to regular position. Final speeds: 1315/415/--1935 rpm
SEP	11	2006	254	3937		HGA moved to end of keyhole position
SEP	13	2006	256	3939		Transponder Swap (2->1)
SEP	20	2006	263	3946		End of September keyhole period
OCT	12	2006	285	3968		MDI 4-Day Continuous until October 15
NOV	10	2006	314	3997		MDI 4-Day Continuous until November 13
NOV	24	2006	328	4011		Beginning of "December" keyhole period
NOV	27	2006	331	4014		Transponder Swap (1->2)
DEC	5	2006	339	4022		SK-53: jets 1,2,4,6; dV: -0.0967 m/s
DEC	5	2006	339	4022		Momentum Management 3 segments. Final speeds: 1200/400/--805 rpm
DEC	5	2006	339	4022		180 ° Roll, satellite in inverted position. Final speeds: --410/--395/1585 rpm
DEC	7	2006	341	4024		HGA moved to end of keyhole position
DEC	8	2006	342	4025		Transponder Swap (2->1)
DEC	11	2006	345	4028		End of December keyhole period

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	6	2007	6	4054		MDI 3-Day Continuous until January 08
JAN	27	2007	27	4075		SUMER redundant LCL spuriously switched ON. As corrective action, all instruments LCL's switched OFF
FEB	1	2007	32	4080		MDI 5-Day Continuous until February 05
FEB	13	2007	44	4092		Beginning of "February/March" keyhole period
FEB	19	2007	50	4098		Transponder Swap (1->2)
FEB	27	2007	58	4106		SK-54: jets 2,3,4; dV: 0.123 m/s
FEB	27	2007	58	4106		Momentum Management 3 segments. Final speeds: --980/--405/2270 rpm
MAR	5	2007	64	4112		180 ° Roll, satellite in normal position. Final speeds: 1910/410/-1430 rpm
MAR	5	2007	64	4112		HGA moved to end of keyhole position
MAR	6	2007	65	4113		Transponder Swap (2->1)
MAR	12	2007	71	4119		End of "February/March" keyhole period
MAR	28	2007	87	4135		OCD 2229 executed: Existing macro space compacted in preparation for the TCM-in-Macros patch
MAR	29	2007	88	4136		OCD 2225 executed: ACU mapping data cleared before a star mapping
MAR	30	2007	89	4137		MDI 4-Day Continuous until April 2
APR	16	2007	106	4154		MEDOC Campaign #17, until April 22
APR	17	2007	107	4155		OCD 2232 executed: Upload of COBS Patches for Automated Operations (TCM in Macros and RW Speed Limits Updating)
APR	26	2007	116	4164		MDI 4-Day Continuous until April 29
MAY	15	2007	135	4183		Upload of new standard monitorings 30-32 and associated macros 15-17 for automation (TCM in macros)
MAY	18	2007	138	4186		Beginning of "May/June" keyhole period
MAY	21	2007	141	4189		Transponder Swap (1->2)
MAY	29	2007	149	4197		SK-55: jets 1,2,4,6; dV: -0.058 m/s
MAY	29	2007	149	4197		Momentum Management 3 segments. Final speeds: 680/390/--775 rpm
MAY	29	2007	149	4197		180 ° Roll, satellite in inverted position. Final speeds: --400/--375/1060 rpm
MAY	31	2007	151	4199		HGA moved to end of keyhole position
JUN	1	2007	152	4200		Transponder Swap (2->1)
JUN	6	2007	157	4205		End of "May/June" keyhole period
JUL	19	2007	200	4248		MDI 4-Day Continuous until July 23
AUG	11	2007	223	4271		Beginning of "Aug/Sep" keyhole period
AUG	18	2007	230	4278		Transponder Swap (1->2)
AUG	30	2007	242	4290		SK-56: jets 1,2,3,6; dV -0.195 m/s
AUG	30	2007	242	4290		Momentum Management 3 segments. Final speeds: --1454/--497/1726 rpm
AUG	31	2007	243	4291		180 ° Roll, satellite in normal position. Final speeds: 1234/505/--1954
SEP	3	2007	246	4294		Transponder Swap (2->1)
SEP	4	2007	247	4295		Power cycle APME-A
SEP	9	2007	253	4301		End of "Aug/Sep" keyhole period
OCT	26	2007	299	4347		MDI 3-day Continuous until Oct 28
NOV	15	2007	319	4367		Beginning of "November" keyhole period
NOV	18	2007	322	4370		Transponder Swap (1->2)
NOV	20	2007	324	4372		180 ° Roll, satellite in inverted position. Final speeds: -1045/-560/840 rpm. HGA moved to end of keyhole position.
NOV	27	2007	331	4379		SK-57: jets 2,3,4; dV: 0.045 m/s. Momentum management 3 segments. Final speeds: -360/-410/1595
NOV	29	2007	333	4381		Transponder Swap (2->1)
DEC	2	2007	336	4384		End of "November" keyhole period
DEC	3	2007	337	4385		MDI 60-day Continuous until Feb 3 2008
DEC	9	2007	343	4391	6:31	SWAN LCL switched off, Experiment LCL monitoring triggered at 06:34
DEC	17	2007	351	4399		FPSS Standard Monitoring channels 20, 21 changed to filter value 6 and trigger macro 14 (ESR)

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JAN	24	2008	24	4437		Tank and branch B PROS pressures equalization (OCD 2130 repeated)
FEB	3	2008	34	4447		End of MDI 60-day continuous campaign
FEB	4	2008	35	4448		Beginning of "February" keyhole period
FEB	11	2008	42	4455		Transponder Swap (1->2)
FEB	19	2008	50	4463		SK-58: jets 2,3,4; dV: 0.096 m/s.
FEB	22	2008	53	4466		Momentum management 3 segments (jets 5,2,3). 180° Roll, satellite in normal position. Final wheels speeds: 1906/400/-1397
FEB	25	2008	56	4469		Transponder Swap (2->1)
MAR	2	2008	62	4475		End of "February" keyhole period
MAR	3	2008	63	4476		MDI 60-day continuous until May 4 2008
APR	9	2008	100	4513		Add new COBS macro (OCD2311) for SSR almost full
MAY	7	2008	128	4541		Beginning of "May" keyhole period
MAY	10	2008	131	4544		Transponder Swap (1->2)
MAY	19	2008	140	4553	15:55	SK-59: jets 1,2,4,6; dV -0.08 m/s
MAY	19	2008	140	4553		Momentum management 3 segments (jets 3,5,1). 180° Roll, satellite in inverted position. Final wheels speeds: -440/-315/1070. Start using "extended HGA table" (covers the whole period between two Key Holes).
MAY	22	2008	143	4556		Transponder Swap (2->1). TC Watchdog set to 48 hours (as per UB55).
MAY	25	2008	145	4558		End of "May" keyhole period
JUN	23	2008	175	4588		SUMER campaign until July 3
JUL	2	2008	184	4597		Correction of COBS Scheduler bug
JUL	9	2008	191	4604		MDI 4-day continuous until July 13
AUG	1	2008	212	4625		Beginning of "August" keyhole period
AUG	7	2008	220	4633		Transponder Swap (1->2)
AUG	21	2008	234	4647	15:05	SK-60: jets 2,3,4; dV +0.065 m/s
AUG	21	2008	234	4647	16:00	Momentum management 2 segments (jets 3,5). 180° Roll, satellite back in normal position. Final wheels speeds: 1260/415/-1905.
AUG	23	2008	236	4649		Transponder Swap (2->1)
AUG	30	2008	243	4656		End of "August" keyhole period
SEP	20	2008	264	4677		SUMER campaign until Oct 6
SEP	26	2008	270	4683		MDI 4-day continuous until Sept 29
OCT	16	2008	290	4703		MDI 4-day continuous until Oct 19
NOV	5	2008	310	4723		Beginning of "November" keyhole period
NOV	8	2008	313	4726		Transponder Swap (1->2)
NOV	18	2008	323	4736	11:50	SK-61: jets 2,3,4; dV +0.054 m/s.
NOV	18	2008	323	4736	12:35	Momentum management 3 segments (jets 5,4,1). 180° Roll, satellite in inverted position. Final wheels speeds: -425/-404/1600.
NOV	19	2008	324	4737		Transponder Swap (2->1)
NOV	22	2008	328	4741		End of "November" keyhole period
DEC	9	2008	344	4757	14:57	PLM heaters reduction (upper panels and SSU-B, -15.7W)
DEC	12	2008	344	4757		MDI 4-day continuous until Dec 15

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	9	2009	9	4788		GOLF electronics substitution heater switched OFF (circuit 69)
JAN	25	2009	25	4804		Beginning of keyhole period
JAN	31	2009	31	4810		Transponder Swap (1->2)
FEB	12	2009	43	4822	17:50	SK-62: jets 2,3,4; dV +0.036 m/s
FEB	12	2009	43	4822	18:35	Momentum management 3 segments (jets 2,5,4).
FEB	14	2009	45	4824	18:23	180° Roll, satellite in normal position. Final wheels speeds: 1875/420/-1430
FEB	15	2009	46	4825		Transponder Swap (2->1)
FEB	21	2009	52	4831		End of "February" keyhole period
MAR	3	2009	62	4841		SVM heaters reduction (battery 1 and gyros boxes)
MAR	28	2009	87	4866		MDI 3-day continuous until Mar 30
APR	15	2009	105	4884		SUMER campaign until Apr 29
APR	28	2009	118	4897		Beginning of keyhole period
MAY	1	2009	121	4900	17:20	Transponder Swap (1->2)
MAY	12	2009	132	4911	15:20	SK-63: jets 2,3,4; dV +0.028 m/s.
MAY	12	2009	132	4911	15:55	Momentum management 3 segments (jets 3, 5, 1).
MAY	12	2009	132	4911	17:23	180° Roll, satellite in inverted position. Final wheels speeds: -400/-410/1085
MAY	13	2009	133	4912		Transponder Swap (2->1)
MAY	16	2009	136	4915		End of keyhole period
MAY	18	2009	138	4917		MDI 60-day continuous campaign until July 20
JUN	3	2009	157	4936		SUMER test and campaign until June 17
JUL	12	2009	193	4972	4:13	ESR-25 triggered by CSPAAD (false trigger)
JUL	14	2009	195	4974	15:35	Momentum management 3 segments (jets 3,2,5).
JUL	19	2009	200	4979	14:00	SK-64: jets 1,2,4,6; dV -0.294 m/s.
JUL	22	2009	203	4982		Beginning of keyhole period
JUL	28	2009	209	4988		Transponder Swap (1->2)
AUG	11	2009	223	5002	15:25	SK-65: jets 3,4; dV 0.0047 m/s.
AUG	11	2009	223	5002	15:37	Momentum management 3 segments (jets 5,2,3).
AUG	13	2009	225	5004	14:44	180° Roll, satellite in normal position. Final wheels speeds: 1295/405/-1920
AUG	14	2009	226	5005	13:25	Transponder Swap (2->1)
AUG	14	2009	226	5005	13:56	HGA Z-axis moved +197 steps (dual coil) to -16.7 degrees to reduce Keyhole (old 26m stations not used anymore)
AUG	16	2009	232	5011		End of keyhole period for D27
SEP	25	2009	268	5047		MDI 3-day continuous campaign until Sept 27
OCT	22	2009	295	5074	13:00	ACU SW patch 16 uploaded. Tank and RWL heaters in mode 2.
OCT	26	2009	299	5078	14:43	Science ROLL maneuver (360 degrees)
OCT	30	2009	303	5082	2:00	Beginning of keyhole period for D27
NOV	1	2009	305	5084		Transponder Swap (1->2)
NOV	5	2009	309	5088	14:15	PLM heaters tuning (overall reduction of 7.6W)
NOV	7	2009	311	5090		SK-66: jets 2,3,4; dV +0.038m/s.
NOV	7	2009	311	5090		Momentum management 3 segments (jets 5,4,1).
NOV	7	2009	311	5090		180° Roll, satellite in inverted position. Final wheels speeds: -430/-390/1620
NOV	7	2009	311	5090		Transponder Swap (2->1)
NOV	10	2009	314	5093	10:00	End of keyhole period for D27
DEC	10	2009	344	5123		MDI 3-day continuous campaign until Dec 13

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	21	2010	22	5166		Beginning of keyhole period for D27
JAN	22	2010	22	5166	7:49	SSR Memory Unit 9 switched OFF by itself
JAN	23	2010	23	5167	20:32	SSR Memory Unit 9 switched back ON
JAN	25	2010	25	5169		Transponder Swap (1->2)
FEB	3	2010	34	5178		SK-67: jets 1,2,4,6 ; dV -0.023m/s.
FEB	3	2010	34	5178		Momentum management 3 segments (jets 5, 2 and 4).
FEB	3	2010	34	5178		180° Roll, satellite in normal position. Final wheels speeds: 2000/410/-1385
FEB	3	2010	34	5178		Transponder Swap (2->1)
FEB	7	2010	38	5182		End of keyhole period for D27
MAR	25	2010	84	5228		MDI 3-day continuous campaign until March 27
APR	22	2010	112	5256		Beginning of keyhole period for D27
APR	24	2010	114	5258		Transponder Swap (1->2)
APR	30	2010	120	5264	15:45	SK-68: jets 1,2 ; dV -0.023 m/s.
APR	30	2010	120	5264	16:15	Momentum management 3 segments (jets 3, 5 and 1).
APR	30	2010	120	5264	17:32	180° Roll, satellite in inverted position. Final wheels speeds: -500/-490/1375 rpm
APR	30	2010	120	5264		Transponder Swap (2->1)
MAY	3	2010	123	5267		End of keyhole period for D27
MAY	4	2010	124	5268		MDI 2-month continuous campaign until July 17
JUN	18	2010	169	5313		SUMER campaign until June 29
JUL	19	2010	200	5344		Beginning of keyhole period for D27
JUL	21	2010	202	5346		Transponder Swap (1->2)
JUL	29	2010	210	5354	15:15	SK-69: jets 1,2 ; dV -0.041 m/s
JUL	29	2010	210	5354	15:50	Momentum Management 3 segments (jets 5, 1 and 4)
AUG	2	2010	214	5358	14:28	180° Roll, satellite in normal position. Final wheels speeds: 1310/395/-1942 rpm
AUG	2	2010	214	5358	16:25	Transponder Swap (2->1)
AUG	5	2010	217	5361		End of keyhole period for D27
AUG	20	2010	232	5376	13:55	ESR-26 triggered by CSPAAD (false trigger)
AUG	21	2010	233	5377	14:35	Momentum Management 3 segments (jets 2, 3 and 6)
AUG	21	2010	233	5377	20:17	142-degree Roll to put spacecraft to normal position (2.25 degrees). Wheels at 1380/305/-1950 rpm
AUG	27	2010	239	5383	15:00	SK-70: jets 1,2 ; dV -0.185 m/s (as aborted after 27 minutes) . Wheels at 1372/110/-1846 rpm
AUG	27	2010	239	5383	16:25	Momentum Management 3 segments (jets 2, 5 and 4)
SEP	17	2010	260	5404	14:45	SK-71: jets 1,2 ; dV -0.082 m/s. Wheels at 937/647/-1968 rpm
OCT	20	2010	293	5437		Beginning of keyhole period for D27
OCT	22	2010	295	5439		Transponder Swap (1->2)
OCT	29	2010	302	5446	16:30	Momentum Management 3 segments (jets 5, 3 and 1)
OCT	29	2010	302	5446	17:30	PLM heaters reduction (-12.5W per OCD2479)
OCT	29	2010	302	5446	17:57	185.6-degree Roll to put spacecraft to inverted position (180 degrees). Beginning of BOGART phase Wheels at -504/-194/1492 rpm
OCT	29	2010	302	5446	21:00	Transponder Swap (2->1)
NOV	1	2010	305	5449		End of keyhole period for D27
NOV	9	2010	313	5457	17:25	COBS patch to increase number of standard monitoring channels uploaded and tested

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	6	2011	7	5516	20:50	VIRGO switched ON on B-side (was OFF since Jan 2 at ~4UT)
JAN	12	2011	12	5521		Beginning of keyhole period for D27
JAN	14	2011	14	5523		Transponder Swap (1->2)
JAN	19	2011	19	5528	10:45	SK-72: jets 1,2 ; dV -0.011m/s. Wheels at -1235 / -522 / 2182 rpm
JAN	19	2011	19	5528	11:20	Momentum Management 3 segments (jets 5A, 4A and 2A)
JAN	25	2011	25	5534	10:58	180° Roll, satellite in 0-degree position. Final wheels speeds: 1850/ 477 / -1610 rpm
JAN	25	2011	25	5534		ACU SW patch 16 Version 2 uploaded
JAN	25	2011	25	5534		Transponder Swap (2->1)
JAN	30	2011	30	5539		End of keyhole period for D27
MAR	23	2011	82	5591		CELIAS switched OFF and later on turned back ON with CTOF kept OFF
APR	12	2011	102	5611		Beginning of keyhole period for D27
APR	15	2011	105	5614		Transponder Swap (1->2)
APR	22	2011	112	5621	11:00	SK-73: jets 1,2 ; dV -0.092m/s. Wheels at 244 / 810 / -1716 rpm
APR	22	2011	112	5621	11:35	Momentum Management 3 segments (jets 5A, 1A and 3A)
APR	22	2011	112	5621	13:04	180° Roll, satellite in 180-degree position. Final wheels speeds: -493/ -510 / 1394 rpm
APR	22	2011	112	5621	13:10	CTOF substitution heater (circuit 64) reduced from 80% to 60%
APR	22	2011	112	5621		ACU SW patch 17 uploaded
APR	22	2011	112	5621		Transponder Swap (2->1)
APR	24	2011	114	5623		End of keyhole period for D27
JUN	30	2011	181	5690	12:30	SUMER campaign
JUL	9	2011	190	5699		Beginning of keyhole period for D27
JUL	12	2011	193	5702	17:35	Transponder Swap (1->2)
JUL	19	2011	200	5709	15:30	SK-74: jets 3,4 ; dV 0.010m/s. Wheels at -1482 / -423 / 1631 rpm
JUL	19	2011	200	5709		Momentum Management 3 segments (jets 5A, 4A and 1A). Final wheels speeds: -1306 / -509 / 1727 rpm
JUL	22	2011	203	5712	15:08	180° Roll, satellite in 0-degree position. Final wheels speeds: 1243 / 500 / -1833 rpm
JUL	23	2011	204	5713	11:20	Transponder Swap (2->1)
JUL	27	2011	208	5717		End of keyhole period for D27
OCT	11	2011	284	5793		Beginning of keyhole period for D27
OCT	13	2011	287	5796	20:25	Transponder Swap (1->2)
OCT	20	2011	293	5802		SK-75: jets 3,4 ; dV 0.037m/s. Wheels at 290/ 330/ -1270 rpm
OCT	20	2011	293	5802		Momentum Management 3 segments (jets 5A, 4A and 2A). Final wheels speeds: 1210 / 400 / -810 rpm
OCT	20	2011	293	5802	18:23	180° Roll (4 segments), satellite in 180-degree position. Final wheels speeds: -410 / -400 / 1600 rpm
OCT	20	2011	293	5802	21:50	Transponder Swap (2->1)
OCT	22	2011	295	5804		End of keyhole period for D27
NOV	30	2011	334	5843	16:04	PLM thermal reconfiguration caused by CEPAC getting too hot (QTH1A at 53°C)
DEC	1	2011	335	5844	12:02	PLM RTU and PDU switched back to nominal side
DEC	7	2011	341	5850	15:14	CEPAC switched back ON with ESU kept OFF

SOHO Events List

Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	3	2012	3	5877		Beginning of keyhole period for D27
JAN	5	2012	5	5879		CEPAC ESU switched ON (with new COBS monitorings of HIPWA and QTH1A)
JAN	6	2012	6	5880	21:40	Transponder Swap (1->2)
JAN	13	2012	13	5887	17:25	SK-76: jets 1,2 ; dV -0.007m/s. Wheels at -1435/ -642/ 2004 rpm
JAN	13	2012	13	5887	18:05	Momentum Management 3 segments (jets 5A, 4A and 2A). Final wheels speeds: -976 / -380 / 2270 rpm
JAN	17	2012	17	5891	17:49	180° Roll, satellite in 0-degree position. Final wheels speeds: 1914 / 409 / -1407 rpm
JAN	17	2012	17	5891	20:50	Transponder Swap (2->1)
JAN	20	2012	20	5894		End of keyhole period for D27
MAR	23	2012	83	5957		SUMER campaign
APR	3	2012	94	5968		Beginning of keyhole period for D27
APR	5	2012	96	5970	15:22	Transponder Swap (1->2)
APR	11	2012	102	5976	16:20	SK-77: jets 1,2 ; dV -0.015m/s. Wheels at 243/ 873/ -1517rpm
APR	11	2012	102	5976	17:15	Momentum Management 3 segments (jets 5A, 1A and 4A). Final wheels speeds: 900 / 492 / -880 rpm
APR	11	2012	102	5976	19:40	180° Roll, satellite in 180-degree position. Final wheels speeds: -395/ -491/ 1383 rpm
APR	11	2012	102	5976	21:40	Transponder Swap (2->1)
APR	14	2012	105	5979		End of keyhole period for D27
MAY	3	2012	124	5998	22:25	ESR-27 triggered by CSPAAD (false trigger)
MAY	8	2012	129	6003		Roll maneuvers (+10°; -36°and then -57.32°).Roll angle at 180°.
MAY	8	2012	129	6003	20:34	ESR-28 triggered by CSPAAD (false trigger) and warm start-up
MAY	9	2012	130	6004	13:10	Roll maneuvers (+4.2°).Roll angle at 180°.
MAY	9	2012	130	6004	16:05	ESR-29 triggered by CSPAAD (false trigger)
MAY	10	2012	131	6005	18:20	SK-78 (first segment) delta-V -0.3 m/s. Wheels at 1705 / -3693 / 1606 rpm
MAY	10	2012	131	6005	19:15	SK-78 (second segment, aborted) delta-V -0.13 m/s. Wheels at 1809 / -3913 / 1637 rpm
MAY	10	2012	131	6005	20:20	Momentum Management 2 segments (jets 4A and 2A). Final wheels speeds: -705 / -855 / 1055 rpm
MAY	10	2012	131	6005	22:45	SK-78 (third segment) delta-V -0.152 m/s. Wheels at 1364 / -1237 / -558 rpm
MAY	10	2012	131	6005	23:35	Momentum Management 3 segments (jets 5A, 1A and 4A). Final wheels speeds: 1566 / -1066 / -306 rpm
MAY	11	2012	132	6006		Spacecraft rolled to 180° angle.
MAY	30	2012	151	6025	11:56	SK-79 (delta-V -0.33 m/s. Wheels at -703 / -1031 / 1629 rpm
JUN	22	2012	174	6048	9:06	Spacecraft thermal reconfiguration caused by CDS instrument getting too cold
JUN	28	2012	180	6054		Beginning of keyhole period for D27
JUL	2	2012	184	6058		Transponder Swap (1->2)
JUL	6	2012	188	6062	16:50	SK-80: jets 1,2 ; dV -0.024m/s. Wheels at -1526/ -775/ 1422rpm
JUL	6	2012	188	6062	17:20	Momentum Management 3 segments (jets 5A, 3A and 2A). Final wheels speeds: -1331 / -505 / 1775 rpm
JUL	12	2012	194	6068	18:05	180° Roll, satellite in 0-degree position. Final wheels speeds: 1317/ 484/ -1885 rpm
JUL	12	2012	194	6068	21:10	Transponder Swap (2->1)
JUL	17	2012	199	6073		End of keyhole period for D27
SEP	19	2012	263	6137		CDS switched back ON
OCT	1	2012	275	6149		Beginning of keyhole period for D27
OCT	3	2012	277	6151	14:59	Transponder Swap (1->2)
OCT	9	2012	283	6157	17:40	SK-81: jets 1A/2A; dV -0.0627m/s. Wheels at 405 / 372 / -1425 rpm
OCT	9	2012	283	6157	18:15	Momentum Management 3 segments (jets 5A, 4A and 2A). Final wheels speeds: 1209 / 406 / -799 rpm
OCT	9	2012	283	6157	19:52	+180° Roll, satellite in 180-degree position. Final wheels speeds: -396 / -405 / 1605 rpm
OCT	9	2012	283	6157	23:00	Transponder Swap (2->1)
OCT	12	2012	286	6160		End of keyhole period for D27
DEC	24	2012	359	6233		Beginning of keyhole period for D27
DEC	27	2012	362	6236	19:20	Transponder Swap (1->2)

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	3	2013	3	6243	17:20	SK-82: jets 1A/2A; dV -0.206m/s. Wheels at -1495 / -750 / 2040 rpm
JAN	3	2013	3	6243	18:50	Momentum Management 3 segments (jets 5A, 4A and 2A). Final wheels speeds: -1070 / -390 / 2260 rpm
JAN	7	2013	7	6247	17:21	+180° Roll, satellite in 0-degree position. Final wheels speeds: 1900 / 400 / -1400 rpm
JAN	7	2013	7	6247	19:40	Transponder Swap (2->1)
JAN	10	2013	10	6250		End of keyhole period for D27
JAN	23	2013	23	6263	20:28	UVCS instrument turned OFF at LCL level, beginning of UVCS sensor substitution heater ramp down (circuit 84 reduced by 10%-steps, finally set at 0% on Feb 11)
MAR	24	2013	83	6323		Beginning of keyhole period for D27
MAR	26	2013	85	6325	22:45	Transponder Swap (1->2); Tank heater increased from 50% to 60%
APR	2	2013	92	6332	15:50	SK-83: jets 1A/2A; dV -0.246m/s. Wheels at 300 / 770 / -1640 rpm
APR	2	2013	92	6332	16:40	Momentum Management 3 segments (jets 5A, 1A and 4A). Final wheels speeds: 939 / 445 / -1073 rpm
APR	2	2013	92	6332	18:11	+180° Roll, satellite in 180-degree position. Final wheels speeds: -635 / -440 / 1374 rpm
APR	2	2013	92	6332	21:10	Transponder Swap (2->1)
APR	3	2013	93	6333		Tank heater increased from 60% to 80%
APR	5	2013	95	6335		End of keyhole period for D27
JUN	19	2013	170	6410		Beginning of keyhole period for D27
JUN	21	2013	172	6412		Transponder Swap (1->2)
JUN	28	2013	179	6419	11:40	SK-84: jets 1A/2A; dV -0.236m/s. Final wheels speeds: -1544 / -444 / 1905 rpm
JUN	28	2013	179	6419	13:00	Momentum Management 3 segments (jets 5A, 1A and 4A). Final wheels speeds: 939 / 445 / -1073 rpm
JUL	3	2013	184	6424	10:24	+180° Roll (performed in 3 segments: +30, +90 and +60°) with stars mapping thru both SSU-A and SSU-B (only after +60° for the latter), satellite in 0-degree position. Final wheels speeds: 1643 / 381 / -1977 rpm
JUL	3	2013	184	6424	14:15	Test SAS1-B by pitch/yaw offpointing (+/-0.5°)
JUL	3	2013	184	6424		Transponder Swap (2->1)
JUL	7	2013	184	6424		End of keyhole period for D27
SEP	12	2013	255	6495		CDS put into SNOOZE mode
SEP	21	2013	264	6504		Beginning of keyhole period for D27
SEP	27	2013	270	6510		Transponder Swap (1->2)
SEP	30	2013	273	6513	15:40	Momentum Management 1 segment (2A). Wheels at 422 / 766 / -1687 rpm
SEP	30	2013	273	6513		SK-85 part 1: jets 1A/2A; dV -0.38m/s. Wheels at 457 / 738 / -1666 rpm
SEP	30	2013	273	6513	17:10	Momentum Management 3 segments (jets 5A, 1A and 3A). Final wheels speeds: 1222 / 374 / -776 rpm
SEP	30	2013	273	6513		SK-85 part 2: jets 1A/2A; dV -0.05m/s. Wheels at 1245 / 322 / -739 rpm
SEP	30	2013	273	6513	18:45	+180° Roll, satellite in 180-degree position. Final wheels speeds: -421 / -322 / 1559 rpm
SEP	30	2013	273	6513	21:15	Transponder Swap (2->1)
OCT	1	2013	274	6514	15:30	LION switched back ON
OCT	3	2013	276	6516		End of keyhole period for D27
OCT	14	2013	287	6527	13:30	CDS put into normal operating mode
OCT	16	2013	289	6529		SUMER started observing again
OCT	30	2013	303	6543		Upload of new ERNE SW (ERNE in Stand-by)
NOV	16	2013	320	6560	12:25	SK-86: jets 1A/2A; dV -0.078m/s. Wheels at -862 / -520 / 1959 rpm
DEC	18	2013	352	6592		Beginning of keyhole period for 34m
DEC	18	2013	352	6592	3:52	Transponder Swap (1->2)

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JAN	6	2014	6	6611	16:30	SK-87: jets 1A/2A; dV -0.027m/s. Final wheels speeds: -1571 / -530 / 2203 rpm
JAN	6	2014	6	6611	16:45	Momentum Management 3 segments (jets 5A, 4A and 2A). Final wheels speeds: -1308 / -395 / 2299 rpm
JAN	6	2014	6	6611	17:53	+180° Roll, satellite in 0-degree position. Final wheels speeds: 1906 / 402 / -1704 rpm
JAN	6	2014	6	6611	19:30	Test SAS1-B by pitch/yaw offpointing (+-0.5°)
JAN	6	2014	6	6611	21:15	Transponder Swap (2->1)
JAN	6	2014	6	6611		End of keyhole period for 34m
JAN	8	2014	8	6613	16:15	PLM heaters reduction (-11W)
FEB	13	2014	44	6649	13:00	HGA Z-axis moved +167 steps (dual coil) to -15.2 degrees to reduce Keyhole (D27 not used anymore). In addition HGA Y-axis parked at 0.
MAR	18	2014	77	6682	16:20	Transponder Swap (1->2)
MAR	19	2014	78	6683	01:00	Beginning of keyhole period for 34m
MAR	23	2014	82	6687	17:00	End of keyhole period for 34m
MAR	24	2014	83	6688	15:35	SK-88: jets 1A/2A; dV -0.03 m/s. Final wheels speeds: 523 / 776 / -1664 rpm
MAR	24	2014	83	6688	16:00	Momentum Management 3 segments (jets 5A, 4A and 1A). Final wheels speeds: -1003 / 381 / -891 rpm
MAR	24	2014	83	6688	17:30	+180° Roll, satellite in 180-degree position. Final wheels speeds: 1906 / 402 / -1704 rpm
MAR	24	2014	83	6688	19:00	SAS1-B check by +- 0.5 degrees off-pointing
MAR	24	2014	83	6688	20:25	Transponder Swap (2->1)
JUN	6	2014	157	6762		SVM gyros and battery 1 heaters increased
JUN	13	2014	164	6769	15:40	Transponder Swap (1->2). CDS put into snooze mode.
JUN	14	2014	165	6770	17:00	Beginning of keyhole period for 34m
JUN	16	2014	167	6772		PLM +Z lower panel heater from 90% to 100%.
JUN	18	2014	169	6774		MDI telemetry and command interface switched to redundant
JUN	22	2014	173	6778	16:00	End of keyhole period for 34m
JUN	23	2014	174	6779	15:15	SK-89: jets 3A/4A; dV 0.07 m/s. Final wheels speeds: -1470 / 370 / 1950 rpm
JUN	23	2014	174	6779	15:35	Momentum Management 3 segments (jets 3A, 6A and 1A). Final wheels speeds: -1590 / -420 / 2000 rpm
JUN	23	2014	174	6779	16:50	+180° Roll, satellite in 0-degree position. Final wheels speeds: 1600 / 410 / -1990 rpm
JUN	23	2014	174	6779	17:10	Tank and branch B PROS pressures equalization (OCD 2130 repeated)
JUN	23	2014	174	6779	19:00	SAS1-B check by +- 0.5 degrees off-pointing
JUN	23	2014	174	6779	20:25	Transponder Swap (2->1)
AUG	8	2014	220	6825		SUMER instrument switched OFF
SEP	5	2014	248	6853		CDS put into hibernation (snooze mode, circ 62 and 63 at 50%, door open)
SEP	15	2014	258	6863	15:15	Transponder Swap (1->2).
SEP	16	2014	259	6864	0:00	Beginning of keyhole period for 34m
SEP	20	2014	263	6868	14:00	End of keyhole period for 34m
SEP	22	2014	265	6870	15:50	SK-90: jets 3A/4A; dV 0.05 m/s. Final wheels speeds: 539 / 442 / -1551 rpm
SEP	22	2014	265	6870	16:10	Momentum Management 3 segments (jets 5A, 3A and 1A). Final wheels speeds: 1218 / 392 / -815 rpm
SEP	22	2014	265	6870	17:28	+180° Roll, satellite in 180-degree position. Final wheels speeds: -398 / -440 / 1618 rpm
SEP	22	2014	265	6870	18:00	SUMER sensor substitution heater reduced (circ 82: from 100% to 90%)
SEP	22	2014	265	6870	19:00	SAS1-B check by +- 0.5 degrees off-pointing
SEP	22	2014	265	6870	20:55	Transponder Swap (2->1)
OCT	14	2014	287	6892		COBS patch to speed up memorydump uploaded
NOV	23	2014	327	6932	18:09	GOLF Magnetic Modulation switched off (Probably SEU). Switched back on 2014-11-26.
DEC	10	2014	344	6949	12:15	Transponder Swap (1->2).
DEC	10	2014	344	6949	19:00	Beginning of keyhole period for 34m
DEC	18	2014	352	6957	8:00	End of keyhole period for 34m
DEC	18	2014	352	6957	17:45	SK-91: jets 3A/4A; dV 0.05 m/s. Final wheel speeds: -1462 / -517 / 2111 rpm
DEC	18	2014	352	6957	18:05	Momentum Management 3 segments (jets 3A, 5A and 2A). Final wheel speeds: -1430 / -357 / 2344 rpm
DEC	18	2014	352	6957	19:13	+180° Roll, satellite in 0-degree position. Final wheels speeds: 2000 / 358 / -1778 rpm
DEC	18	2014	352	6957	20:20	Transponder Swap (2->1)

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MAR	9	2015	68	7038	16:10	Transponder Swap (1->2)
MAR	9	2015	68	7038	23:00	Beginning of keyhole period for 34m
MAR	14	2015	73	7043	3:00	End of keyhole period for 34m
MAR	16	2015	75	7045	16:15	SK-92: jets 1A/2A: dV -0.034 m/s. Final wheel speeds: 456 / 740 / -1675 rpm
MAR	16	2015	75	7045	16:35	Momentum Management 3 segments (jets 5A, 3A and 2A). Final wheel speeds: 977 / 448 / -850 rpm
MAR	16	2015	75	7045	18:02	+180° Roll, satellite in 180-degree position. Final wheels speeds: -407 / -446 / 1416
MAR	16	2015	75	7045	18:40	SUMER sensor substitution heater reduced (circ 82: from 90% to 80%)
MAR	16	2015	75	7045	20:10	SAS1-B check by +- 0.5 degrees off-pointing
MAR	16	2015	75	7045	21:55	Transponder Swap (2->1)
May	17	2015	137	7107	14:34	VIRGO switched off internally. Restarted May 22.
JUN	4	2015	155	7125	15:15	Transponder Swap (1->2)
JUN	5	2015	156	7126	4:00	Beginning of keyhole period for 34m
JUN	12	2015	163	7133	14:50	SK-93: jets 3A/4A: dV 0.0571 m/s. Final wheel speeds: -1446 / -404 / 1877 rpm
JUN	12	2015	163	7133	15:10	Momentum Management 3 segments (jets 3A, 6A and 2A). Final wheel speeds: -1583 / -405 / 1949 rpm
JUN	12	2015	163	7133	16:23	+180° Roll, satellite in 0-degree position. Final wheel speeds: 1553 / 406 / -1978 rpm
JUN	12	2015	163	7133	16:55	Transponder Swap (2->1)
JUN	12	2015	163	7133	18:10	SAS1-B check by +- 0.5 degrees off-pointing
JUN	13	2015	164	7134	3:00	End of keyhole period for 34m
SEP	4	2015	247	7217	15:15	Transponder Swap (1->2)
SEP	6	2015	249	7219	14:00	Beginning of keyhole period for 34m
SEP	11	2015	254	7224	4:00	End of keyhole period for 34m
SEP	11	2015	254	7224	12:40	SK-94: jets 1A/2A: dV -0.0851 m/s. Final wheels speeds: 480 / 416 / -1478 rpm
SEP	11	2015	254	7224	18:40	Momentum Management 1 segment (jet 5A). Final wheel speeds 1177 / 391 / -783 rpm
SEP	11	2015	254	7224	19:40	+180° Roll, satellite in 180-degree position. Final wheel speeds: -399 / -387 / 1557 rpm
SEP	11	2015	254	7224	21:20	SAS1-B check by +- 0.5 degrees off-pointing
SEP	11	2015	254	7224	23:15	Transponder Swap (2->1)
NOV	30	2015	334	7304	18:30	Transponder Swap (1->2)
DEC	1	2015	335	7305	16:00	Beginning of keyhole period for 34m
DEC	9	2015	343	7313	7:00	End of keyhole period for 34m
DEC	10	2015	344	7314	12:40	SK-95: jets 1A/2A: dV -0.15298 m/s. Final wheels speeds: -1429 / -637 / 2155 rpm
DEC	10	2015	344	7314	13:40	Momentum Management 3 segments (jets 5A, 3A and 2A). Final wheel speeds: -1412 / -354 / 2368 rpm
DEC	10	2015	344	7314	16:16	+180° Roll, satellite in 0-degree position. Final wheel speeds: 1553 / 406 / -1978 rpm
DEC	10	2015	344	7314	17:00	Transponder Swap (2->1)
DEC	10	2015	344	7314	17:58	SAS1-B check by +- 0.5 degrees off-pointing

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
FEB	1	2016	32	7367	11:00	SK-96: jets 1A/2A: dV -0.036978 m/s. Final wheels speeds: 1061 / 729 / -1712 rpm
FEB	26	2016	57	7392	1:20	Warm startup caused by spurious CDMU/PCCS LCL off
FEB	26	2016	57	7392	22:15	Transponder Swap (1->2)
FEB	28	2016	59	7394	21:00	Beginning of keyhole period for 34m
MAR	4	2016	64	7399	9:00	End of keyhole period for 34m
MAR	4	2016	64	7399	18:15	SK-97: jets 1A/2A: dV -0.00421 m/s. Final wheel speeds: 463 / 799 / -1703 rpm
MAR	4	2016	64	7399	18:28	Momentum Managements 3 segments (jets 5A, 3A, 1A). Final wheel speeds: 1045 / 438 / -839 rpm
MAR	4	2016	64	7399	19:54	+180° Roll, satellite in 180-degree position. Final wheel speeds: -404 / -438 / 1472 rpm
MAR	4	2016	64	7399	21:40	SAS1-B check by +- 0.5 degrees off-pointing
MAR	4	2016	64	7399	23:30	Transponder Swap (2->1)
MAY	24	2016	145	7480	17:45	Transponder Swap (1->2)
MAY	25	2016	146	7481	16:00	Beginning of keyhole period for 34m
JUN	2	2016	147	7482	18:00	End of keyhole period for 34m
JUN	3	2016	155	7490	15:40	SK-98: jets 1A/2A: dV -0.00734 m/s. Final wheel speeds: -1517 / -416 / 1977 rpm
JUN	3	2016	155	7490	15:52	Momentum Managements 3 segments (jets 3A, 6A, 2A). Final wheel speeds: -1605 / -392 / 1952 rpm
JUN	3	2016	155	7490	17:05	+180° Roll, satellite in 0-degree position. Final wheel speeds: 1570 / 394 / -1986 rpm
JUN	3	2016	155	7490	19:00	SAS1-B check by +- 0.5 degrees off-pointing
JUN	3	2016	155	7490	20:50	Transponder Swap (2->1)
AUG	26	2016	239	7574	14:50	Transponder Swap (1->2)
AUG	27	2016	240	7575	3:00	Beginning of keyhole period for 34m
AUG	31	2016	241	7576	18:00	End of keyhole period for 34m
SEP	1	2016	245	7580	15:30	SK-99: jets 1A/2A: dV -0.0082708 m/s. Final wheel speeds: 503 / 441 / -1492 rpm
SEP	1	2016	245	7580	15:45	Momentum Management 1 segment (jet 5A). Final wheel speeds: 1191 / 416 / -806 rpm
SEP	1	2016	245	7580	16:43	+180° Roll, satellite in 180-degree position. Final wheel speeds: -395 / -415 / 1597 rpm
SEP	1	2016	245	7580	18:30	SAS1-B check by +- 0.5 degrees off-pointing
SEP	1	2016	245	7580	20:15	Transponder Swap (2->1)
NOV	17	2016	322	7657	18:20	Transponder Swap (1->2)
NOV	21	2016	326	7661	13:00	Beginning of keyhole period for 34m
NOV	29	2016	334	7669	6:00	End of keyhole period for 34m
NOV	29	2016	334	7669	16:45	SK-100: jets 1A/2A: dV -0.005 m/s. Final wheel speeds: -1505 / -496 / 2112 rpm
NOV	29	2016	334	7669	16:56	Momentum Management 3 segment (jets 5A,3A,2A). Final wheel speeds: -1381 / -371 / 2336 rpm
NOV	29	2016	334	7669	18:10	+180° Roll, satellite in 0-degree position. Final wheel speeds: 1978 / 372 / -1742 rpm
NOV	29	2016	334	7669	18:55	Transponder Swap (2->1)
NOV	29	2016	334	7669	20:05	SAS1-B check by +- 0.5 degrees off-pointing

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
FEB	17	2017	48	7749	17:55	Transponder Swap (1->2)
FEB	18	2017	49	7750	18:00	Beginning of keyhole period for 34m
FEB	23	2017	54	7755	3:00	End of keyhole period for 34m
FEB	23	2017	54	7755	18:05	SK-101: jets 1A/2A: dV -0.0616 m/s. Final wheel speeds: 400 / 746 / -1648 rpm
FEB	23	2017	54	7755	18:25	Momentum Management 3 segments (jets 5A,3A,1A). Final wheel speeds: 1056 / 393 / -833 rpm
FEB	23	2017	54	7755	19:46	+180° Roll, satellite in 180-degree position. Final wheel speeds: -448 / -390 / 1440 rpm
FEB	23	2017	54	7755	21:25	Transponder Swap (2->1)
FEB	23	2017	54	7755	21:45	SAS1-B check by +/- 0.5 degrees off-pointing
MAR	20	2017	79	7780		Start of last(?) SUMER campaign.
APR	4	2017	94	7795		End of SUMER campaign. SUMER switched off. Substituion heaters on.
MAY	15	2017	135	7836	20:45	Transponder Swap (1->2)
MAY	16	2017	136	7837	2:00	Beginning of keyhole period for 34m
MAY	24	2017	136	7837	3:00	End of keyhole period for 34m
MAY	24	2017	144	7845	17:10	SK-102: jets 1A/2A: dV -0.0370 m/s. Final wheel speeds: -1478 / -411 / 2027 rpm
MAY	24	2017	144	7845	17:38	Momentum Management 3 segments (jets 3A,6A,2A). Final wheel speeds: -1588 / -435 / 2039 rpm
MAY	24	2017	144	7845	18:29	+180° Roll, satellite in 0-degree position. Final wheel speeds: 1600 / 437 / -2012 rpm
MAY	24	2017	144	7845	19:10	Transponder Swap (2->1)

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
MAY	24	2017	144	7845	20:10	SAS1-B check by +/- 0.5 degrees off-pointing
MAY	24	2017	144	7845	20:40	Tank and branch B PROS pressures equalization (OCD 2130 repeated)
AUG	17	2017	229	7930	16:10	Transponder Swap (1->2)
AUG	17	2017	229	7930	17:00	Beginning of keyhole period for 34m
AUG	22	2017	234	7935	7:00	End of keyhole period for 34m
AUG	22	2017	234	7935	18:45	SK-103: jets 3A/4A: dV 0.01876 m/s. Final wheel speeds:471 / 485 / -1592 rpm
AUG	22	2017	234	7935	19:00	Momentum Management 3 segments (jets 5A,3A,1A). Final wheel speeds:1200 / 400 / -805 rpm
AUG	22	2017	234	7935	20:18	+180° Roll, satellite in 180-degree position. Final wheel speeds: -411 / -395 / 1588 rpm
AUG	22	2017	234	7935	21:05	Transponder Swap (2->1)
AUG	22	2017	234	7935	22:00	SAS1-B check by +/- 0.5 degrees off-pointing
OCT	23	2017	296	7997	18:45	SK-104: jets 1A/2A: dV -0.0411 m/s. Final wheel speeds: -1101 / -551 / 2027 rpm (out of cycle SK)
NOV	10	2017	314	8015	19:35	Transponder Swap (1->2)
NOV	12	2017	316	8017	13:00	Beginning of keyhole period for 34m
NOV	20	2017	324	8025	7:00	End of keyhole period for 34m
NOV	20	2017	324	8025	16:20	SK-105: jets 3A/4A: dV 0.0018 m/s. Final wheel speeds: -1498/-524/2154 rpm
NOV	20	2017	324	8025	16:31	Momentum Management 3 segments (jets 5A/2A/3A) Final wheel speeds:-1371/-357/2350 rpm
NOV	20	2017	324	8025	17:40	+180° Roll, satellite in 0-degree position. Final wheel speeds:2006/358/-1719 rpm
NOV	20	2017	324	8025	19:20	Transponder Swap (2->1)
NOV	20	2017	324	8025	20:00	SAS1-B check by +/- 0.5 degrees off-pointing

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
FEB	8	2018	39	8105	21:48	Transponder Swap (1->2)
FEB	9	2018	40	8106	16:00	Beginning of keyhole period for 34m
FEB	14	2018	45	8111	1:00	End of keyhole period for 34m
FEB	14	2018	45	8111	17:45	SK-106: jets 1A/2A: dV -0.00875 m/s. Final wheel speeds: 380 /818 / -1686 rpm
FEB	14	2018	45	8111	18:01	Momentum Management 3 segments (jets 5A/3A/1A) Final wheel speeds: 1030 / 395 / -799 rpm
FEB	14	2018	45	8111	19:27	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -409 / -392 / 1417 rpm
FEB	14	2018	45	8111	21:00	Transponder Swap (2->1)
FEB	14	2018	45	8111	21:15	SAS1-B check by +/- 0.5 degrees off-pointing
MAY	4	2018	124	8190	15:55	Transponder Swap (1->2)
MAY	6	2018	126	8192	16:00	Beginning of keyhole period for 34m
MAY	14	2018	134	8200	19:00	End of keyhole period for 34m
MAY	15	2018	135	8201	18:05	SK-107: jets 1A/2A: dV -0.00891 m/s. Final wheel speeds: -1457 / -418 / 2029 rpm
MAY	15	2018	135	8201	18:17	Momentum Management 3 segments (jets 3A/6A/2A) Final wheel speeds: -1593 / -410 / 2016 rpm
MAY	15	2018	135	8201	19:21	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1616 / 412 / -1992 rpm
MAY	15	2018	135	8201	21:05	Transponder Swap (2->1)
MAY	15	2018	135	8201	21:25	SAS1-B check by +/- 0.5 degrees off-pointing. Only yaw profile completed.
MAY	15	2018	135	8201	21:50	At start of SAS1-B check pitch profile CRP monitoring triggered caused by SSU reset due to star 3 tracking window bumping into the stationary star 4 window (starr 4 was reporting False Event since the preceding mapping) See also a similar event on Sep 5, 2004
AUG	7	2018	219	8285	15:45	Transponder Swap (1->2)
AUG	8	2018	220	8286	5:00	Beginning of keyhole period for 34m
AUG	12	2018	224	8290	19:00	End of keyhole period for 34m
AUG	13	2018	225	8291	15:25	SK-108: jets 1A/2A: dV -0.01040 m/s. Final wheel speeds: 477 / 489 / -1550 rpm
AUG	13	2018	225	8291	15:38	Momentum Management 3 segments (jets 5A/3A/1A) Final wheel speeds: 1187 / 400 / -804 rpm
AUG	13	2018	225	8291	16:58	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -410 / -399 / 1577 rpm
AUG	13	2018	225	8291	18:40	Transponder Swap (2->1)
AUG	13	2018	225	8291	18:55	SAS1-B check by +/- 0.5 degrees off-pointing
OCT	3	2018	276	8342	10:45	SK-109: jets 1A/2A, dV -0.03366 m/s. Final wheel speeds: -954 / -542 / 1949 rpm
NOV	2	2018	306	8372	18:50	Transponder Swap (1->2)
NOV	3	2018	307	8373	8:00	Beginning of keyhole period for 34m
NOV	11	2018	315	8381	5:00	End of keyhole period for 34m
NOV	14	2018	318	8384	16:15	SK-110: jets 1A/2A: dV -0.0039 m/s. Final wheel speeds: -1550 / -498 / 2146 rpm
NOV	14	2018	318	8384	16:26	Momentum Management 3 segments (jets 5A/2A/4A) Final wheel speeds: -1383 / -375 / 2280 rpm
NOV	14	2018	318	8384	17:33	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1918 / 375 / -1750 rpm
NOV	14	2018	318	8384	19:15	Transponder Swap (2->1)
NOV	14	2018	318	8384	19:30	SAS1-B check by +/- 0.5 degrees off-pointing.
JAN	30	2019	30	8461	15:30	Transponder Swap (1->2)
JAN	31	2019	31	8462	14:00	Beginning of keyhole period for 34m
FEB	4	2019	35	8466	22:00	End of keyhole period for 34m
FEB	5	2019	36	8467	17:20	SK-111: jets 1A/2A: dV -0.0082 m/s. Final wheel speeds: 405 / 772 / -1655 rpm
FEB	5	2019	36	8467	17:32	Momentum Management 3 segments (jets 5A/3A/1A) Final wheel speeds: 1030 / 400 / -806 rpm
FEB	5	2019	36	8467	19:26	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -411 / -398 / 1418 rpm
FEB	5	2019	36	8467	21:52	Transponder Swap (2->1)
APR	15	2019	105	8536		Start SUMER substitution heaters reduction (first circuit 76 , then both 76 and 82)
APR	26	2019	116	8547		SUMER switched ON to OPEN its DOOR, then switched OFF with DOOR left OPEN
APR	26	2019	116	8547		Transponder Swap (1->2)
APR	27	2019	117	8548	6:00	Beginning of keyhole period for 34m
MAY	5	2019	125	8556	10:00	End of keyhole period for 34m
MAY	7	2019	127	8558	14:50	SK-112: jets 3A/4A: dV 0.05623 m/s. Final wheel speeds: -1478 / -418 / 2026 rpm
MAY	7	2019	127	8558	15:07	Momentum Management 3 segments (jets 6A/3A/2A) Final wheel speeds: -1647 / -400 / 1940 rpm
MAY	7	2019	127	8558	16:11	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1541 / 410 / -2048 rpm
MAY	7	2019	127	8558	17:55	Transponder Swap (2->1)
JULY	29	2019	210	8641		Transponder Swap (1->2)
JULY	29	2019	210	8641	16:00	Beginning of keyhole period for 34m
AUG	3	2019	215	8646	8:00	End of keyhole period for 34m

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AUG	7	2019	219	8650	15:35	SK-113: jets 1A/2A: dV -0.04374 m/s. Final wheel speeds: 428 / 425 / -1491 rpm
AUG	7	2019	219	8650	15:52	Momentum Management 3 segments (jets 5A/4A/1A) Final wheel speeds: 1192 / 386 / -785 rpm
AUG	7	2019	219	8650	17:11	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -410 / 380 / 1560 rpm
AUG	7	2019	219	8650	18:55	Transponder Swap (2->1)
OCT	10	2019	283	8714		MDI recovered by power off/on in preparation for Mercury transit
OCT	24	2019	297	8728	17:16	Transponder Swap (1->2)
OCT	25	2019	298	8729	4:00	Beginning of keyhole period for 34m
NOV	2	2019	306	8737	4:00	End of keyhole period for 34m
NOV	5	2019	309	8740	15:50	SK-114: jets 3A/4A: dV 0.00994 m/s. Final wheel speeds: -1465 / -476 / 2155 rpm
NOV	5	2019	309	8740	16:02	Momentum Management 3 segments (jets 5A/2A/3A) Final wheel speeds: -1373 / -389 / 2272 rpm
NOV	5	2019	309	8740	17:36	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1862 / 425 / -1782 rpm
NOV	5	2019	309	8740	19:12	Transponder Swap (2->1)

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	21	2020	21	8817	17:15	Transponder Swap (1->2)
JAN	22	2020	22	8818	13:00	Beginning of keyhole period for 34m
JAN	26	2020	26	8822	20:00	End of keyhole period for 34m
JAN	29	2020	29	8825	18:35	SK-115: jets 3A/4A: dV 0.00630 m/s. Final wheel speeds: 307 / 804 / -1691 rpm
JAN	29	2020	29	8825	18:46	Momentum Management 3 segments (jets 5A/1A/3A) Final wheel speeds: 1041 / 423 / -817 rpm
JAN	29	2020	29	8825	20:09	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -398 / -413 / 1454 rpm
JAN	29	2020	29	8825	21:58	Transponder Swap (2->1)
APR	16	2020	107	8903	13:05	Transponder Swap (1->2)
APR	16	2020	107	8903	22:00	Beginning of keyhole period for 34m
APR	25	2020	116	8912	0:00	End of keyhole period for 34m
APR	28	2020	119	8915	17:30	SK-116: jets 3A/4A: dV 0.040886 m/s. Final wheel speeds: -1491 / -408 / 2041 rpm
APR	28	2020	119	8915	17:45	Momentum Management 3 segments (jets 6A/3A/2A) Final wheel speeds: -1642 / -394 / 1934 rpm
APR	28	2020	119	8915	18:57	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1550 / 400 / -2021 rpm
APR	28	2020	119	8915	21:00	Transponder Swap (2->1)
JUL	17	2020	199	8995	14:45	Transponder Swap (1->2)
JUL	19	2020	201	8997	5:00	Beginning of keyhole period for 34m
JUL	23	2020	205	9001	22:00	End of keyhole period for 34m
JUL	24	2020	206	9002	15:15	SK-117: jets 1A/2A: dV -0.052437 m/s. Final wheel speeds: 500 / 395 / -1496 rpm
JUL	24	2020	206	9002	15:35	Momentum Management 2 segments (jets 5A/3A) Final wheel speeds: 1201 / 368 / -780 rpm
JUL	24	2020	206	9002	16:42	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -417 / -365 / 1557 rpm
JUL	24	2020	206	9002	18:25	Transponder Swap (2->1)
OCT	14	2020	288	9084	20:00	Transponder Swap (1->2)
OCT	15	2020	289	9085	2:00	Beginning of keyhole period for 34m
OCT	23	2020	297	9093	0:00	End of keyhole period for 34m
OCT	23	2020	297	9093	16:20	SK-118: jets 3A/4A: dV 0.01911 m/s. Final wheel speeds: -1455 / -473 / 2175 rpm
OCT	23	2020	297	9093	16:35	Momentum Management 3 segments (jets 5A/3A/2A) Final wheel speeds: -1437 / -379 / 2273 rpm
OCT	23	2020	297	9093	17:42	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1906 / 381 / -1808 rpm
OCT	23	2020	297	9093	19:45	Transponder Swap (2->1)
JAN	11	2021	11	9173	21:01	Transponder Swap (1->2)
JAN	12	2021	12	9174	12:00	Beginning of keyhole period for 34m
JAN	16	2021	16	9178	20:00	End of keyhole period for 34m
JAN	19	2021	19	9181	16:50	SK-119: jets 1A/2A: dV -0.036467 m/s. Final wheel speeds: 326 / 733 / -1667 rpm
JAN	19	2021	19	9181	17:06	Momentum Management 3 segments (jets 5A/3A/1A) Final wheel speeds: 1059 / 376 / -788 rpm
JAN	19	2021	19	9181	18:28	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -416 / -376 / 1426 rpm
JAN	19	2021	19	9181	20:15	Transponder Swap (2->1)
APR	6	2021	96	9258	15:55	Transponder Swap (1->2)
APR	7	2021	97	9259	16:00	Beginning of keyhole period for 34m
APR	15	2021	105	9267	19:00	End of keyhole period for 34m
APR	16	2021	106	9268	17:00	SK-120: jets 1A/2A: dV -0.014055 m/s. Final wheel speeds: -1428 / -408 / 2084 rpm
APR	16	2021	106	9268	17:13	Momentum Management 3 segments (jets 6A/3A/2A) Final wheel speeds: -1650 / -407 / 1955 rpm
APR	16	2021	106	9268	18:20	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1556 / 410 / -2048 rpm
APR	16	2021	106	9268	20:15	Transponder Swap (2->1)
MAY	11	2021	131	9293	13:05	CDS switched OFF (had been hibernated [in snooze mode] since 2014-09-05)
MAY	17	2021	137	9299	14:30	Start CDS substitution heaters reduction (circuit 62)
MAY	19	2021	139	9301	13:08	APME A and B switched off (were left on after last antenna repositioning February 13, 2014)
JUN	21	2021	172	9334	13:30	CDS substitution heater (circuit 62) off. End of 10% per week reduction.
JUL	8	2021	189	9351	14:15	Transponder Swap (1->2)
JUL	9	2021	190	9352	16:00	Beginning of keyhole period for 34m
JUL	14	2021	195	9357	8:00	End of keyhole period for 34m
JUL	14	2021	195	9357	14:50	SK-121: jets 3A/4A: dV 0.002572 m/s. Final wheel speeds: 436 / 461 / -1545 rpm
JUL	14	2021	195	9357	15:02	Momentum Management 1 segment (jet 5A) Final wheel speeds: 1168 / 436 / -814 rpm
JUL	14	2021	195	9357	15:57	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -383 / -435 / 1594 rpm
JUL	14	2021	195	9357	17:40	Transponder Swap (2->1)
OCT	5	2021	278	9440	16:25	Transponder Swap (1->2)
OCT	5	2021	278	9440	21:00	Beginning of keyhole period for 34m

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OCT	13	2021	286	9448	20:00	<i>End of keyhole period for 34m</i>
OCT	14	2021	287	9449	15:40	SK-122: jets 1A/2A: dV -0.031927 m/s. Final wheel speeds: -1512 / -487 / 2176 rpm
OCT	14	2021	287	9449	15:55	Momentum Management 3 segments (jets 5A/3A/2A,) Final wheel speeds: -1474 / -405 / 2293 rpm
OCT	14	2021	287	9449	17:00	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1902 / 405 / -1868 rpm
OCT	14	2021	287	9449	19:10	Transponder Swap (2->1)
DEC	30	2021	364	9526	21:45	Transponder Swap (1->2)

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Month	Day	Year	Day of Year	Flight Day	Time (UTC)	Event
JAN	3	2022	3	9530	11:00	Beginning of keyhole period for 34m
JAN	7	2022	7	9534	19:00	End of keyhole period for 34m
JAN	10	2022	10	9537	17:22	SK-123: jets 3A/4A: dV 0.005538 m/s. Final wheel speeds: 981 / 754 / -1098 rpm
JAN	10	2022	10	9537	16:55	Momentum Management 3 segments (jets 5A/3A/1A.) Final wheel speeds: 1039 / 416 / -810 rpm. Note: First segment before SK, 2nd and 3rd segment after SK.
JAN	10	2022	10	9537	18:31	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -397 / -416 / 1445 rpm
JAN	10	2022	10	9537	20:40	Transponder Swap (2->1)
MAR	28	2022	87	9614	19:55	Transponder Swap (1->2)
MAR	29	2022	88	9615	11:00	Beginning of keyhole period for 34m
APR	6	2022	96	9623	13:00	End of keyhole period for 34m
APR	6	2022	96	9623	15:35	SK-124: jets 3A/4A: dV 0.041267 m/s. Final wheel speeds: -1432 / -379 / 2038 rpm
APR	6	2022	96	9623	15:55	Momentum Management 2 segments (jets 6A/3A) Final wheel speeds: -1650 / -400 / 1935 rpm.
APR	6	2022	96	9623	16:55	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1543 / 403 / -2039 rpm
APR	6	2022	96	9623	20:40	Transponder Swap (2->1)
JUN	29	2022	180	9707	17:05	Transponder Swap (1->2)
JUN	30	2022	181	9708	3:00	Beginning of keyhole period for 34m
JUL	4	2022	185	9712	21:00	End of keyhole period for 34m
JUL	5	2022	186	9713	17:35	SK-125: jets 1A/2A: dV -0.004974 m/s. Final wheel speeds: 376 / 480 / -1540 rpm
JUL	5	2022	186	9713	17:46	Momentum Management 3 segments (jets 5A/4A/1A.) Final wheel speeds: 1189 / 397 / -802 rpm.
JUL	5	2022	186	9713	19:05	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -400 / -397 / 1575 rpm
JUL	5	2022	186	9713	20:55	Transponder Swap (2->1)
SEP	15	2022	258	9785	18:10	OCD2701 step 1, PLM heaters reduction by 10% for circuits 44, 46, 58, 59
SEP	22	2022	265	9792	15:00	OCD2701 step 2, SM tank heaters increased by 10%
SEP	22	2022	265	9792	19:15	Transponder Swap (1->2)
SEP	26	2022	269	9796	15:00	Beginning of keyhole period for 34m
SEP	29	2022	272	9799	15:10	OCD2701 step 3, PLM heaters reduction by 10% for circuits 44, 58
OCT	4	2022	277	9804	15:00	End of keyhole period for 34m
OCT	4	2022	277	9804	17:00	SK-126: jets 1A/2A: dV -0.115967 m/s. Final wheel speeds: -1424 / -597 / 2243 rpm
OCT	4	2022	277	9804	17:40	Momentum Management 3 segments (jets 5A/3A/1A) Final wheel speeds: -11439 / -530 / 2341 rpm.
OCT	4	2022	277	9804	18:46	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1830 / 581 / -1946 rpm
OCT	4	2022	277	9804	19:46	Transponder Swap (2->1)
DEC	23	2022	357	9884	16:30	Transponder Swap (1->2)
DEC	25	2022	359	9886	9:00	Beginning of keyhole period for 34m
DEC	29	2022	363	9890	18:00	End of keyhole period for 34m
DEC	30	2022	364	9891	17:00	Momentum Management 3 segments (jets 3A/5A/2A) Final wheel speeds: 1057 / 405 / -797 rpm.
DEC	30	2022	364	9891	18:07	SK-127: jets 3A/4A: dV 0.02677 m/s. Final wheel speeds: 1055 / 405 / -797 rpm.
DEC	30	2022	364	9891	18:49	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -396 / -405 / 1451 rpm
DEC	30	2022	364	9891	20:45	Transponder Swap (2->1)

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MAR	17	2023	76	9968	17:15	Transponder Swap (1->2)
MAR	20	2023	79	9971	5:00	Beginning of keyhole period for 34m
MAR	28	2023	87	9979	7:00	End of keyhole period for 34m
MAR	28	2023	87	9979	17:45	SK-128: jets 1A/2A: dV -0.02238 m/s. Final wheel speeds: -1456 / -370 / 2078 rpm
MAR	28	2023	87	9979	18:00	Momentum Management 2 segments (jets 6A/3A) Final wheel speeds: -1674 / -403 / 1941 rpm
MAR	28	2023	87	9979	18:55	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1546 / 407 / -2068 rpm
MAR	28	2023	87	9979	20:50	Transponder Swap (2->1)
JUN	19	2023	170	10062	14:22	Transponder Swap (1->2)
JUN	20	2023	171	10063	13:00	Beginning of keyhole period for 34m
JUN	25	2023	176	10068	8:00	End of keyhole period for 34m
JUN	26	2023	177	10069	14:50	SK-129: jets 1A/2A: dV -0.009265 m/s. Final wheel speeds: 386 / 470 / -1549 rpm
JUN	26	2023	177	10069	15:02	Momentum Management 3 segments (jets 5A/4/1AA) Final wheel speeds: 1200 / 400 / -800pm
JUN	26	2023	177	10069	17:00	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -400 / -400 / 2400 rpm
JUN	26	2023	177	10069	19:00	Transponder Swap (2->1)
JUL	24	2023	205	10097	12:01	Thermal reconfiguration caused by SWAN substitution heater spurious-ON
AUG	10	2023	222	10114		Restore thermal control settings (as before thermal reconfiguration)
SEP	15	2023	258	10150	16:09	Transponder Swap (1->2)
SEP	17	2023	260	10152	7:00	Beginning of keyhole period for 34m
SEP	25	2023	268	10160	7:00	End of keyhole period for 34m
SEP	25	2023	268	10160	15:25	SK-130: jets 1A/2A: dV -0.048969 m/s. Final wheel speeds: -1419 / -583 / 2239 rpm
SEP	25	2023	268	10160	16:05	Momentum Management 1 segment (jet 2) Final wheel speeds: -1510 / -398 / 2154pm
SEP	25	2023	268	10160	16:48	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1772 / 389 / -1896 rpm
SEP	25	2023	268	10160	18:25	Transponder Swap (2->1) (it took 2h25 for D26 to reacquire TM, finally after ground station receiver re-init)
DEC	15	2023	349	10241	15:52	Transponder Swap (1->2)
DEC	16	2023	350	10242	9:03	Beginning of keyhole period for 34m
DEC	20	2023	354	10246	15:56	End of keyhole period for 34m
DEC	21	2023	355	10247	14:20	SK-131: jets 3A/4A: dV 0.003025 m/s. Final wheel speeds: 321 / 675 / -1665 rpm
DEC	21	2023	355	10247	14:31	Momentum Management 3 segment (jet 5/3/1) Final wheel speeds: 1097 / 395 / -795pm
DEC	21	2023	355	10247	16:16	+180° Roll. Satellite in 180-degree position. Final wheel speeds: 1772 / 389 / -1896 rpm
DEC	21	2023	355	10247	18:04	Transponder Swap (2->1)
MAR	8	2024	68	10325	16:20	Transponder Swap (1->2)
MAR	10	2024	70	10327	3:39	Beginning of keyhole period for 34m
MAR	17	2024	77	10334	23:36	End of keyhole period for 34m
MAR	18	2024	78	10335	13:40	SK-132: jets 1A/2A: dV -0.06696 m/s. Final wheel speeds: -149 / -363 / 2111 rpm
MAR	18	2024	78	10335	14:15	Momentum Management 2 segments (jets 6/3). Final wheel speeds -1712 / -378 / 1937 rpm
MAR	18	2024	78	10335	19:05	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1568 / 381 / -2080 rpm
MAR	18	2024	78	10335	17:30	Transponder Swap (2->1)
MAY	9	2024	130	10387	16:00	SK-133: jets 1A/2A: dV -0.009688 m/s. Final wheel speeds: 856 / 525 / -1797 rpm
JUN	7	2024	159	10416	16:27	Transponder Swap (1->2)
JUN	10	2024	162	10419	0:30	Beginning of keyhole period for 34m
JUN	14	2024	166	10423	17:04	End of keyhole period for 34m
JUN	17	2024	169	10426	14:50	SK-134: jets 1A/2A: dV -0.0057 m/s. Final wheel speeds: 352 / 510 / -1572 rpm
JUN	17	2024	169	10426	15:02	Momentum Management 3 segments (jets 5/4/1). Final wheel speeds 1180 / 419 / -817 rpm
JUN	17	2024	169	10426	16:18	+180° Roll. Satellite in 180-degree position. Final wheel speeds: -409 / -427 / 1576 rpm
JUN	17	2024	169	10426	17:55	Transponder Swap (2->1)
SEP	6	2024	250	10507	15:15	Transponder Swap (1->2)
SEP	6	2024	250	10507	23:04	Beginning of keyhole period for 34m
SEP	14	2024	258	10515	19:46	End of keyhole period for 34m
SEP	16	2024	260	10517	15:15	SK-135: jets 1A/2A: dV -0.0639 m/s. Final wheel speeds: -1496 / -440 / 2159 rpm
SEP	16	2024	260	10517	15:40	Momentum Management 2 segments (jets 3/2). Final wheel speeds -1537 / -416 / 2167 rpm
SEP	16	2024	260	10517	16:31	+180° Roll. Satellite in 0-degree position. Final wheel speeds: 1764 / 416 / -1941 rpm
SEP	16	2024	260	10517	18:15	Transponder Swap (2->1)
DEC	5	2024	340	10597	16:25	Transponder Swap (1->2)
DEC	6	2024	341	10598	7:00	Beginning of keyhole period for 34m
DEC	10	2024	345	10602	20:00	End of keyhole period for 34m

