

Month	Day	Year 1999	Day of Year	Flight Day	Time (UT)	Event
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

Month	Day	Year	Day of	Flight	Time	Event
		1999	Year	Day	(UT)	
AUG	26	1999	238	1364		MDI Continuous Coverage, planned until Sep1, 02:45
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: 27.9/28.4/11.3 sec on-time
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