SXI readme (updated on Aug 2024)

The Solar X-ray Imager (SXI) telescope observed the Sun in wavelengths ranging from soft X-rays to extreme ultraviolet (see the specific filters for each GOES satellite in the DATA NOTES section below). SXI collected an image once per minute and the exposure settings followed a sequence that was optimized to observe three primary phenomena as they are reflected in the Solar atmosphere: coronal structures, active regions, and solar flares. Each image was a 512 x 512 array with 5 arc sec pixels.

FITS files at https://www.ncei.noaa.gov/data/goes-solar-xray-imager/access/fits:
First data: 2003-01-22 (from GOES-12)
Last data: 2020-03-02 (from GOES-15)

PNG files at https://www.ncei.noaa.gov/data/goes-solar-xray-imager/access/browse:
First image: 2001-08-13 (from GOES-12)
Last image: 2020-03-02 (from GOES-15)

File Naming Convention: SXI_yyyymmdd_hhmmssfff_pv_nn.[FTS or PNG] (29 characters)

- 'yyyymmdd_hhmmssfff' UTC date (DATE_OBS). 'fff' represents fraction of a second.

- 'p' data product code, i.e.,
  p = 'A' => Level-0 (Unprocessed. Images are raw and uncalibrated)
  p = 'B' => Level-1 (Processed. Images have been calibrated, rotated, etc.)
  The remainder of the alphabet is available for special processed Level-2 product codes.

- 'v' processing version code, i.e., Reprocessed data will be differentiated by incrementing the version code.

- 'nn' satellite ID (i.e., GOES-nn. SXI was an instrument available at GOES-12 to GOES-15)

Each FITS files daily directory also includes two INDEX files that contain a few useful keywords from each file in the directory, their filenames look like this: INDEX_yyyymmdd_p_nn.FTS

For a description of the SXI FITS header content, see the Level-0 and Level-1 keyword descriptions here.

DATA NOTES

- **GOES-12 SXI Filters:**

[#, wavelength in angstroms, filter name, (Metadata entry)]

- 01, 6-65, Poly thin (P_THN_A)
- 02, UV, UV diffuser
- 03, 6-65, Poly thin (P_THN_B)
- 04, 6-60, Poly medium (P_MED_B)
- 05, 6-20, Be thin (B_THN_B)
- 06, 6-16, Be medium (B_MED)
- 07, 6-12, Be thick (B_THK)
- 08, 0-0, Radiation shield (RDSH)
- 09, 6-80, Open (OPEN)
- 10, 6-20, Be thin (B_THN_A)
- 11, 6-50, Poly thick (P_THK)
- 12, 6-60, Poly medium (P_MED_A)

- **GOES-NOP (-13, -14 and -15) SXI filters:**

Filter		Position		FW Hex		GOES-13	GOES-14/15	
FW1	FW2	FW1	FW2	FW1	FW2	WAVELNTH		COLOR
Open	Be50	1	1	1D	1D	BE50	BE50	blue
Open	Al12	1	2	1D	3B	AL12	AL12	blue
Open	Pi_3b	1	3	1D	59	PTHNb	PTHNb	green
Open	Open	1	4	1D	77	OPEN	OPEN	red
Open	Sn_2b/Ag	1	5	1D	95	TINb	SILVER	yellow
Open	Be12b	1	6	1D	B3	BE12b	BE12b	blue
Be12a	Be50	2	1	3B	1D	BE62	BE62	blue
Be12a	Al12	2	2	3B	3B	BE12AL	BE12AL	grey
Be12a	Pi_3b	2	3	3B	59	BE12P3	BE12P3	grey
Be12a	Open	2	4	3B	77	BE12a	BE12a	blue
Be12a	Sn_2b/Ag	2	5	3B	95	BE12SN	BE12AG	grey
Be12a	Be12b	2	6	3B	B3	BE25	BE25	blue
Sn_2a/TinMesh	Be50	3	1	59	1D	SNBE50	TMBE50	grey
Sn_2a/TinMesh	Al12	3	2	59	3B	SNAL	TMAL	grey
Sn_2a/TinMesh	Pi_3b	3	3	59	59	SNP3	TMP3	grey
Sn_2a/TinMesh	Open	3	4	59	77	TINa	TM	yellow
Sn_2a/TinMesh	Sn_2b/Ag	3	5	59	95	TIN2	TMAG	yellow
Sn_2a/TinMesh	Be12b	3	6	59	B3	SNBE12	TMBE12	grey
Glass	Be50	4	1	77	1D	GLBE50	GLBE50	grey
Glass	Al12	4	2	77	3B	GLAL	GLAL	grey
Glass	Pi_3b	4	3	77	59	GLPTHN	GLPTHN	grey
Glass	Open	4	4	77	77	GLASS	GLASS	red
Glass	Sn_2b/Ag	4	5	77	95	GLTIN	GLAG	grey
Glass	Be12b	4	6	77	B3	GLBE12	GLBE12	grey
Pi_3a	Be50	5	1	95	1D	P3BE50	P3BE50	grey
Pi_3a	Al12	5	2	95	3B	P3AL	P3AL	blue
Pi_3a	Pi_3b	5	3	95	59	PTHN2	PTHN2	green
Pi_3a	Open	5	4	95	77	PTHNa	PTHNa	green
Pi_3a	Sn_2b/Ag	5	5	95	95	P3SN	P3AG	grey
Pi_3a	Be12b	5	6	95	B3	P3BE12	P3BE12	grey
Pi_8	Be50	6	1	B3	1D	P8BE50	P8BE50	grey
Pi_8	Al12	6	2	B3	3B	P8AL	P8AL	grey
Pi_8	Pi_3b	6	3	B3	59	PTHK2	PTHK2	green
Pi_8	Open	6	4	B3	77	PTHK	PTHK	green
Pi_8	Sn_2b/Ag	6	5	B3	95	P8SN	P8AG	grey
Pi_8	Be12b	6	6	B3	B3	P8BE12	P8BE12	grey

- **GOES-12 coronal hole product announcement:** Beginning on Dec 15, 2004, NOAA/SWPC started routine production of a coronal hole image product. This product was created 4 times per day (01:00, 07:00, 13:00, and 19:00 UT), for the purpose of identifying coronal holes, and they became available at approximately 08:00, 14:00, 20:00, and 02:00 UT. Each coronal hole image was created from a sum of 12 hours of images (corrected for solar rotation), spanning the period 6 hours prior to the nominal coronal hole image time to 6 hours after. The coronal hole image is composited from 3-second integration, Level-1 (calibrated) images taken through the Thin Polyimide (PTHN) filter. The need to create this new product was driven by the loss of the ability to use the SXI Open Filter position and by anomalous high voltage power supply (HVPS) behavior. The inability to use the Open Filter was caused by the failure of at least 1 of the 6 entrance filters that normally shield the SXI optics from visible and ultraviolet light. The HVPS behavior has forced imaging to be conducted at a lower than desired gain.

- **GOES-12 image sequencies (2001-2004):** The following summary lists the first image in each sequence change and provides a brief description of what was done in the sequence (eg., 3-filter patrol, UV-bulb test images, MCP-gain testing, etc.). This information was provided by Vic.Pizzo@noaa.gov

Count	First Image File	CUR_ICT	IMAGE_ID	EXP_INDX	SEQ_ID	Seq Content	Remarks
1	SXI_20010816_185954090_AA_12	47	1	901	ETE4s	VF2402; LV BG,UV,Open series, bulb off	
2	UVBI_20010816_200454028_AA_12	47	1	901	"	VF2402; LV BG,UV,Open series, bulb "on"	bulb didn't work
3	SXI_20010816_220353914_AA_12	47	1	901	"	VF2402; LV BG,UV,Open series, bulb off	proton storm
4	SXI_20010816_230253865_AA_12	47	1	901	"	"	
5	SXI_20010817_144253011_AA_12	48	1	908	DRK(mod)*	VF2402; LV BGs only	
6	SXI_20010821_135247869_AA_12	48	1	908	"	LV BGs to test diurnal variation	
7	SXI_20010821_200147505_AA_12	48	1	908	"	"	
8	SXI_20010822_020247178_AA_12	48	1	908	"	"	
9	SXI_20010822_080146870_AA_12	48	1	908	"	"	
10	SXI_20010822_193107592_AA_12	5	31	245	ALN	pointing	header only files
11	SXI_20010822_201306649_AA_12	12	1	754	DRK	LV BG window test (functional)	HV settings, but HV off
12	SXI_20010825_170250681_AA_12	48	3	910	DRK(mod)**	VF2406; vac door open; add 1000ms open	X4 flare "first blob"
13	SXI_20010827_143418274_AA_12	48	1	908	"	"	no flare, no img for opens
14	SXI_20010827_151418235_AA_12	48	1	908	"	"	"
15	MCPSI_20010827_161118197_AA_12	39	1	100	MCPL	VF2407; long startup	**HV ON**
16	MCPSI_20010827_193618017_AA_12	39	1	100	"	"	
17	MCPSI_20010827_195918001_AA_12	39	69	168	"	"	
18	SXI_20010828_144316985_AA_12	49	1	901	ETE4y*	VF2408a; LV BGs and open, Phos ON	header only files
19	SXI_20010828_145116459_AA_12	49	1	901	"	"	"
20	SXI_20010828_165916869_AA_12	49	1	901	"	"	"ghost" sun img in opens
21	SXI_20010828_185316775_AA_12	47	24	848	DRK(mod)***	VF2408b; HV BGs, Phos ON	
22	SXI_20010828_202916687_AA_12	47	24	848	"	"	
23	SXI_20010828_203616679_AA_12	47	24	848	"	"	
24	SXI_20010828_223316573_AA_12	47	24	848	"	"	**rotate img orientation**
25	SXI_20010828_224016571_AA_12	47	24	848	"	"	
26	SXI_20010828_224816556_AA_12	47	24	848	"	"	
27	SXI_20010828_230732917_AA_12	50	97	441	VL(mod)	VF2427a; HV sun imgs, short survey	**first real imgs**
28	SXI_20010829_145431005_AA_12	50	115	493	"	"	continue VF2427a
29	SXI_20010829_151919386_AA_12	50	115	493	"	"	"
30	SXI_20010829_153121642_AA_12	50	121	516	"	"	finish VF2427a
31	SXI_20010829_203129855_AA_12	51	16	483	PHOS(mod)*	VF2427b; partial short phos test	assess need for PHOS test
32	SXI_20010829_223828474_AA_12	52	23	73	OFF(mod)*	VF2427c; partial short sada offset test	assess need for OFF test
33	MCPSI_20010830_150634499_AA_12	7	1	100	MCP	VF2419; short MCP startup	start of eclipse season
34	SXI_20010830_171248996_AA_12	46	1	901	new	VF2408f; all filter seq at 650V, 1000ms	initial survey
35	SXI_20010830_181847868_AA_12	46	1	901	"	"	
36	SXI_20010830_185847485_AA_12	46	1	901	"	"	
37	SXI_20010830_191147104_AA_12	46	1	901	"	"	
38	SXI_20010830_192947097_AA_12	46	1	901	"	"	
39	SXI_20010830_194448217_AA_12	46	1	901	"	"	
40	SXI_20010830_215549221_AA_12	46	1	901	new*	VF2408gh; all filter, 700V, var int_time	proto-patrol #1
41	SXI_20010831_143147090_AA_12	46	1	901	"	VF2408i; 750V, var int_time	loop ~ 2hrs
42	SXI_20010831_161648312_AA_12	46	1	901	"	VF2408i; 800V, var int_time	single-phot prelim
43	SXI_20010831_181848703_AA_12	46	1	901	"	VF2408j; 850V, var int_time	"
44	SXI_20010831_200749136_AA_12	46	1	901	"	VF2408k; 700V, var int_time	proto-patrol #1

45	SXI_20010831_204647990_AA_12	46	1	901	"	VF2408k; 700V, var int_time, log scl	proto-patrol #1a
46	MCPSI_20010904_195325358_AA_12	7	2	101	MCP		
47	SXI_20010904_211424195_AA_12	50	1	920	new**	VF2408l; var V, var int_time, 7 filts	proto-patrol #2
48	MCPSI_20010905_150237743_AA_12	7	1	100	MCP		
49	SXI_20010905_155937565_AA_12	50	1	920	new**	VF2408l; var V, var int_time, 7 filts	proto-patrol #2, bad BG reps
50	SXI_20010905_164547518_AA_12	50	1	920	"	"	" , reps corrected
51	SXI_20010905_185147423_AA_12	50	1	920	"	" , log scaling	"
52	SXI_20010905_222049485_AA_12	55	1	871	1st Img	First official image	test only
53	MCPSI_20010906_150420383_AA_12	7	1	100	MCP		
54	SXI_20010906_172534037_AA_12	55	1	871	1st Img	First official image	run while await other tests
55	SXI_20010906_174424661_AA_12	55	2	872	"	"	", but sun centered
56	SXI_20010906_203829958_AA_12	51	3	940	CCD*	VF2424b; charge advance test	600V opens
57	SXI_20010906_212529921_AA_12	51	3	940	"	" , log scaling	
58	MCPSI_20010907_151124251_AA_12	7	2	101	MCP		
59	SXI_20010907_162035717_AA_12	55	1	871	1st Img	VF2427; First official image	test centering
60	SXI_20010907_163526719_AA_12	55	1	871	"	"	adj centering
61	SXI_20010907_210425894_AA_12	55	1	871	"	"	**First official image**
62	MCPSI_20010910_172540362_AA_12	7	1	100	MCP		
63	SXI_20010910_191045482_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
64	SXI_20010910_221149975_AA_12	51	42	940	ADD	VF2424a; add short imgs vs 1 long img	
65	SXI_20010910_223739960_AA_12	51	42	940	"	" , log scaling	
66	MCPSI_20010911_130717756_AA_12	7	1	100	MCP		
67	MCPSI_20010912_131807062_AA_12	7	1	100	MCP		
68	SXI_20010912_141120393_AA_12	51	46	943	ALN	VF2424c; alignment of CCD rows	sun off center
69	SXI_20010912_142319275_AA_12	51	46	943	"	"	repeat w sun centered
70	SXI_20010912_143320027_AA_12	51	46	943	"	" , log scaling	
71	SXI_20010912_145811450_AA_12	60	113	950	new	VF2420; 3-filter patrol	
72	MCPSI_20010913_151757239_AA_12	7	1	100	MCP		
73	SXI_20010913_193101105_AA_12	52	1	489	CH	VF2415; long CH exposure	
74	SXI_20010913_195102594_AA_12	52	2	263	"	"	
75	SXI_20010913_195901839_AA_12	52	3	695	"	"	
76	SXI_20010913_200402208_AA_12	52	4	801	"	"	
77	SXI_20010913_201302214_AA_12	52	6	697	"	"	
78	SXI_20010913_202202212_AA_12	52	5	802	"	"	
79	SXI_20010913_202702572_AA_12	52	7	295	"	"	
80	SXI_20010913_203202956_AA_12	52	8	682	"	"	
81	SXI_20010913_210500680_AA_12	52	10	285	"	"	
82	SXI_20010913_210903684_AA_12	52	11	703	"	"	
83	SXI_20010913_211501422_AA_12	52	13	951	"	"	
84	SXI_20010913_211901053_AA_12	52	14	952	CH	VF2415; long CH exposure	
85	SXI_20010913_212300674_AA_12	52	15	953	"	"	
86	SXI_20010913_220102153_AA_12	52	1	489	"	" , log scaling	
87	SXI_20010913_220501768_AA_12	52	2	263	"	"	
88	SXI_20010913_220901398_AA_12	52	3	695	"	"	
89	SXI_20010913_221301013_AA_12	52	5	802	"	"	

90	SXI_20010913_221700642_AA_12	52	6	697	"	"	
91	SXI_20010913_222103624_AA_12	52	7	295	"	"	
92	SXI_20010913_222701384_AA_12	52	8	682	"	"	
93	MCPSI_20010914_131257502_AA_12	7	1	100	MCP		
94	SXI_20010914_141802443_AA_12	52	10	285	CH	VF2415; long CH exposure, log scaling	
95	SXI_20010914_142202053_AA_12	52	11	703	"	"	
96	SXI_20010914_142601687_AA_12	52	13	951	"	"	
97	SXI_20010914_143001304_AA_12	52	14	952	"	"	
98	SXI_20010914_143400938_AA_12	52	15	953	"	"	
99	SXI_20010914_214005770_AA_12	53	8	490	EXT	VF2416a; extended corona, log scaling	~1/3 of sun at left edge
100	SXI_20010914_220903874_AA_12	53	8	490	"	"	limb of sun just off left edge
101	SXI_20010914_222106115_AA_12	53	8	490	"	**"** , lin scaling	
102	MCPSI_20010917_184935767_AA_12	7	1	100	MCP		
103	SXI_20010917_204845490_AA_12	53	13	871	PSF(new)	VF2416b; psf test, alt lin-log scaling	drift imgs, sada & ccd adv off
104	SXI_20010917_211735456_AA_12	53	13	871	"	**"** , log only scaling	**"**
105	MCPSI_20010918_140425263_AA_12	7	1	100	MCP		
106	SXI_20010918_151935033_AA_12	53	11	873	FF(new)	VF2416c; Kuhn flat field test, log scaling	drift imgs, sada & ccd adv off
107	SXI_20010918_154237066_AA_12	53	12	609	"	"	dark only for above
108	UVBI_20010918_192824932_AA_12	51	1	901	ETE4z	VF2408c; UV bulb w HV, log scaling	sxi stowed, bulb doesn't light
109	UVBI_20010918_200034913_AA_12	51	1	901	"	"	restart, 2007 **BULB ON**
110	UVBI_20010918_204834899_AA_12	51	1	901	"	"	sxi unstow, offpoint, ict fixed
111	UVBI_20010918_212634889_AA_12	51	1	901	"	**"** , lin scaling	
112	UVBI_20010919_015034770_AA_12	51	1	901	"	"	
113	UVBI_20010919_022914746_AA_12	51	3	903	"	**"** , 650V	
114	UVBI_20010919_031734717_AA_12	51	1	901	"	**"** , 550V	
115	UVBI_20010919_041024686_AA_12	51	1	901	"	**"** , 600V	
116	MCPSI_20010919_175554240_AA_12	7	13	112	MCP		
117	SXI_20010919_184800465_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
118	MCPSI_20010921_131242208_AA_12	7	13	112	MCP		
119	SXI_20010921_151247354_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
120	MCPSI_20010924_140529007_AA_12	7	1	100	MCP		
121	SXI_20010924_150105139_AA_12	54	20	255	LOG	VF2418; Log response	
122	SXI_20010924_174533280_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
123	MCPSI_20010925_132605292_AA_12	7	2	101	MCP		
124	SXI_20010925_150309501_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
125	MCPSI_20010926_141455178_AA_12	7	1	100	MCP		
126	SXI_20010926_155900703_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
127	MCPSI_20010927_132508370_AA_12	7	1	100	MCP		
128	MCPSI_20010927_181545151_AA_12	7	2	101	MCP		
129	SXI_20010927_195747398_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
130	SXI_20010927_203800521_AA_12	60	113	950	"	VF2409A; windowing, single, 1 min delay	uses **"**
131	SXI_20010927_205258267_AA_12	60	113	950	"	"	change location
132	MCPSI_20010928_133628606_AA_12	7	1	100	MCP		
133	SXI_20010928_144734162_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
134	MCPSI_20011002_134927679_AA_12	7	1	100	MCP		

135	SXI_20011002_145731018_AA_12	60	113	950	new	VF2420; 3-filter patrol	main test patrol seq
136	SXI_20011002_154241138_AA_12	60	113	950	"	VF2409B; windowing, double, 1 min delay	uses "
137	SXI_20011002_155641511_AA_12	60	113	950	"	"	change location
138	SXI_20011002_185843000_AA_12	60	113	950	"	VF2420; 3-filter patrol	main test patrol seq
139	SXI_20011002_201640739_AA_12	60	113	950	"	VF2409C; windowing, double, zero delay	uses "
140	MCPSI_20011003_131838953_AA_12	7	1	100	MCP		
141	SXI_20011003_140142916_AA_12	60	113	950	new	VF2420; 3-filter patrol	
142	MCPSI_20011004_133748768_AA_12	7	1	100	MCP		
143	SXI_20011004_142752184_AA_12	60	113	950	new	VF2420; 3-filter patrol	
144	MCPSI_20011005_132655885_AA_12	7	1	100	MCP		
145	SXI_20011005_144800334_AA_12	60	113	950	new	VF2420; 3-filter patrol	
146	MCPSI_20011009_141323429_AA_12	7	1	100	MCP		
147	SXI_20011009_150428875_AA_12	60	113	950	new	VF2420; 3-filter patrol	
148	MCPSI_20011010_132529561_AA_12	7	1	100	MCP		
149	SXI_20011010_142634054_AA_12	60	113	950	new	VF2420; 3-filter patrol	
150	MCPSI_20011011_141854028_AA_12	7	1	100	MCP		
151	SXI_20011011_150059497_AA_12	60	113	950	new	VF2420; 3-filter patrol	
152	MCPSI_20011012_133817459_AA_12	7	1	100	MCP		
153	SXI_20011012_142721189_AA_12	60	113	950	new	VF2420; 3-filter patrol	
154	MCPSI_20011015_141938237_AA_12	7	1	100	MCP		
155	SXI_20011015_152843188_AA_12	60	113	950	new	VF2420; 3-filter patrol	**Begin 24-hr Ops**
156	SXI_20011018_145944958_AA_12	51	42	940	new	B_thin test; long exp vs multi 3s	error: charge stepping on
157	SXI_20011018_155034926_AA_12	51	42	940	new	B_thin test; long exp vs multi 3s	charge stepping turned off
158	SXI_20011018_172640498_AA_12	60	113	950	new	VF2420; 3-filter patrol	
159	SXI_20011106_221225775_AA_12	61	1	960	new	1st try at 5-filter patrol	**voltage-limit**; 1 short record
160	SXI_20011106_223822127_AA_12	60	1	750	P0F	single-filter patrol, 750V Open	ROM ICT #11 test seq
161	SXI_20011106_224833008_AA_12	60	113	950	new	VF2420; 3-filter patrol	
162	SXI_20011107_223123727_AA_12	60	1	750	P0F	single-filter patrol, 750V Open	cmd err (start wrong ICT)
163	SXI_20011107_223317858_AA_12	61	1	950	new	5-filter patrol	V_02
164	SXI_20011129_195112864_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_03, P_thick
165	SXI_20011130_160312361_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_05, Be_thin
166	SXI_20011130_213312232_AA_12	61	1	950	new	5-filter patrol	V_02 via V_06
167	SXI_20011203_171710586_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_04, P_thin
168	SXI_20011203_215510485_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_07, Be_med
169	SXI_20011203_230410459_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_07, Be_med; exp983,4 corr
170	SXI_20011204_162110040_AA_12	61	1	950	new	5-filter patrol; MCP gain test mod	V_08, Open
171	SXI_20011205_160309481_AA_12	61	1	950	new	5-filter patrol; MCP gain + Sphot test mod	V_09, P_med + 2 Be_thick HV
172	SXI_20011206_155408933_AA_12	61	1	950	new	5-filter patrol; Sphot test mod	V_10, Be_thick 900, 1000V
173	SXI_20011207_165408356_AA_12	61	1	950	new	5-filter patrol; Sphot test mod	V_11, Be & P_thick 1000V
174	SXI_20011207_181008332_AA_12	61	1	950	new	5-filter patrol; Sphot test mod	V_11, chng P_k int_tim=1ms
175	SXI_20011207_225408231_AA_12	61	1	950	new	5-filter patrol; Sphot + log test mod	V_12, log Opens, 1000V B_k
176	SXI_20011210_193606684_AA_12	61	1	950	new	5-filter patrol; fastest cadence test mod	V_13, Open pairs, 0 dly
177	SXI_20011216_225703590_AA_12	61	1	950	new	5-filter patrol; fastest cadence test mod	V_13, restart after s/c tests
178	SXI_20011217_183203236_AA_12	61	1	950	new	5-filter patrol; fastest cadence test mod	"
179	UVBI_20011217_195403213_AA_12	51	1	901	ETE4z**	UV-bulb FF images	V_01, 750V

180	UVBI_20011217_210103191_AA_12	51	1	901	"	"	V_01, reduce to 15s on open
181	UVBI_20011217_220203174_AA_12	51	1	901	"	"	V_02, 650V
182	UVBI_20011217_224703163_AA_12	51	1	901	"	"	V_03, 550V
183	SXI_20011217_234303152_AA_12	61	1	950	new	5-filter patrol; fastest cadence test mod	V_13, restart
184	SXI_20011218_184727763_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, +16 NS, +25 EW
185	SXI_20011218_191948725_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, +16 NS, +10 EW
186	SXI_20011218_194014732_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, +8 NS, +25 EW
187	SXI_20011218_195147708_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, +8 NS, +10 EW
188	SXI_20011218_200710712_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, -8 NS, +25 EW
189	SXI_20011218_201745704_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, -8 NS, +10 EW
190	SXI_20011218_202741686_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, -16 NS, +25 EW
191	SXI_20011218_203746678_AA_12	53	1	891	FF*	Flat-field drift scan images	V_1217_01, -16 NS, +10 EW
192	SXI_20011219_011536660_AA_12	61	1	950	new	5-filter patrol; fastest cadence test mod	V_13, restart
193	SXI_20011219_155446397_AA_12	61	1	950	new	5-filter patrol; flat-field test images	V_14, 0V Open and 750v UV
194	SXI_20011219_165446378_AA_12	61	1	950	new	5-filter patrol; flat-field test images	V_14, reset 3s P_thin V=585
195	**SXI_20011220_024148733_AA_12**	**61**	**14**	**964**			**LAST PLT IMAGE**
196	UVBI_20030116_184536073_AA_12	47	1	855	20030107_01	BG, Open, UV at 0V MCP, 0V Phos	Bulb **ON**; FW off, RDSh only
197	UVBI_20030116_195336022_AA_12	47	1	855	"	"	FW On; UV sat; quit for signature
198	UVBI_20030117_202334999_AA_12	47	1	855	20030107_02	"	UV int time adj; Bulb not starting
199	MCPSI_20030122_165839926_AA_12	7	1	100	MCP	MCP startup (long schedule)	interrupted due to GDS problem
200	MCPSI_20030122_173029775_AA_12	7	13	112	"	"	restart, GDS fixed, RT imgs OK
201	SXI_20030122_193334190_AA_12	61	1	950	20020726_02	(ext)BGs, Open, P_med, B_thin, HV BGs	**HV ON; start PATROL**
202	SXI_20030124_195645096_AA_12	61	1	950	20020726_03	.001 & .5s 550V Opens, ext BGs	PATROL: to gather info re pinhole
203	UVBI_20030127_192636789_AA_12	51	1	891	20030106_04	UV bulb series, 750V	Bulb **ON**; 0, 200V also
204	UVBI_20030127_205226764_AA_12	51	1	891	"	" , 650V	"
205	UVBI_20030127_225436720_AA_12	51	1	891	"	" , 550V	"
206	SXI_20030128_005140808_AA_12	61	1	950	20020726_03	.001 & .5s 550V Opens, ext BGs	PATROL
207	SXI_20030128_204804253_AA_12	53	1	1007	20021007_05	EW fast scan, BG	
208	SXI_20030128_205204238_AA_12	53	2	1008	"	" , P_thin	img out of FOV
209	SXI_20030128_205604252_AA_12	53	3	1009	"	" , BG	
210	SXI_20030128_210504224_AA_12	53	4	1010	"	" , P_thin	img out of FOV
211	SXI_20030128_210954222_AA_12	53	4	1010	"	" , P_thin	img out of FOV
212	SXI_20030128_212453211_AA_12	53	2	1008	"	" , P_thin	img out of FOV
213	SXI_20030128_213803367_AA_12	53	3	1009	"	" , BG	
214	SXI_20030128_214003206_AA_12	53	4	1010	"	" , P_thin	img out of FOV
215	SXI_20030128_215303224_AA_12	53	1	1007	"	" , BG	
216	SXI_20030128_215503179_AA_12	53	2	1008	"	" , P_thin	img out of FOV
217	SXI_20030128_215903232_AA_12	53	3	1009	"	" , BG	
218	SXI_20030128_220203183_AA_12	53	4	1010	"	" , P_thin	partial img in SW corner
219	SXI_20030128_221306833_AA_12	61	1	950	20020726_03	.001 & .5s 550V Opens, ext BGs	PATROL
220	SXI_20030129_210708169_AA_12	61	1	950	20020726_04	.015 & 3s 0V Opens, 550V UVs in test slots	"
221	SXI_20030203_185602397_AA_12	47	1	856	20030110_03	BGs, UV, Open; 0-750V	light leak series, bulb OFF
222	SXI_20030203_200503158_AA_12	61	1	950	20020726_04	.015 & 3s 0V Opens, 550V UVs in test slots	PATROL
223	SXI_20030205_165704234_AA_12	48	1	850	20030131_01	Detector Integration-Time Linearity, 500V	
224	SXI_20030205_185051886_AA_12	48	1	850	"	" , 600V	

225	SXI_20030205_195452643_AA_12	48	1	850	"	" , 700V	
226	SXI_20030205_205302410_AA_12	61	1	950	20020726_05	.015 & 3s 0V Opens, ext BGs	PATROL
227	SXI_20030210_194056860_AA_12	49	1	929	20030205_01	Full filter series	
228	SXI_20030210_213000625_AA_12	61	1	950	20020726_05	.015 & 3s 0V Opens, ext BGs	PATROL
229	SXI_20030212_145559019_AA_12	61	1	950	20020726_06	.015 & 3s 0V Opens, ext BGs	PATROL; change #897 sff=0x4000
230	SXI_20030213_165043013_AA_12	55	1	892	20030207_01	MCP voltage response series	
231	SXI_20030213_195259191_AA_12	61	1	950	20020726_06	.015 & 3s 0V Opens, ext BGs	PATROL
232	SXI_20030219_193141173_AA_12	57	1	897	20030211_01	Light-Leak raster, [3.0, 1.11,.334,.001s] Opens	Posn #5 (boresight)
233	SXI_20030219_194041179_AA_12	57	1	897	"	"	#2 (0.0 E, 0.15N)
234	SXI_20030219_194041179_AA_12	57	1	897	"	"	#8 (0.0 E, 0.15S)
235	SXI_20030219_194739671_AA_12	57	1	897	"	"	#7 (0.15 E, 0.15S)
236	SXI_20030219_195139293_AA_12	57	1	897	"	"	#4 (0.15 E, 0.0N)
237	SXI_20030219_195639671_AA_12	57	1	897	"	"	#1 (0.15 E, 0.15N)
238	SXI_20030219_195639671_AA_12	57	1	897	"	"	#3 (0.15 W, 0.15N)
239	SXI_20030219_200741163_AA_12	57	1	897	"	"	#9 (0.15 W, 0.15S)
240	SXI_20030219_201140795_AA_12	57	1	897	"	"	#6 (0.15 W, 0.0N)
241	SXI_20030219_201839295_AA_12	57	1	897	"	"	#5 (boresight)
242	SXI_20030219_202453556_AA_12	61	1	950	20020726_06	.015 & 3s 0V Opens, ext BGs	PATROL
243	SXI_20030220_182038653_AA_12	57	1	897	20030211_01	Light-Leak raster, [3.0, 1.11,.334,.001s] Opens	repeat run; Posn #5 (boresight)
244	SXI_20030220_182038653_AA_12	57	1	897	"	"	#2 (0.0 E, 0.15N)
245	SXI_20030220_182938654_AA_12	57	1	897	"	"	#8 (0.0 E, 0.15S)
246	SXI_20030220_183640526_AA_12	57	1	897	"	"	#7 (0.15 E, 0.15S)
247	SXI_20030220_184040147_AA_12	57	1	897	"	"	#4 (0.15 E, 0.0N)
248	SXI_20030220_184040147_AA_12	57	1	897	"	"	#1 (0.15 E, 0.15N)
249	SXI_20030220_184040147_AA_12	57	1	897	"	"	#3 (0.15 W, 0.15N)
250	SXI_20030220_185638647_AA_12	57	1	897	"	"	#9 (0.15 W, 0.15S)
251	SXI_20030220_190038278_AA_12	57	1	897	"	"	#6 (0.15 W, 0.0N)
252	SXI_20030220_190740148_AA_12	57	1	897	"	"	#5 (boresight)
253	SXI_20030220_191354419_AA_12	61	1	950	20020726_06	.015 & 3s 0V Opens, ext BGs	PATROL
254	SXI_20030220_212451410_AA_12	61	1	950	20020726_07	"	" ; fix JTID#17; EST# 951 BG
255	SXI_20030224_154145080_AA_12	56	1	825	20030210_01	Kuhn-Lin raster; 1.11s 0V BGs	BGs
256	SXI_20030224_155140445_AA_12	56	2	826	"	" ; 1.11s 600V P_thin	Posn #1 (boresight) (pointing errors)
257	SXI_20030224_155637452_AA_12	56	2	826	"	"	"
258	SXI_20030224_155939703_AA_12	56	2	826	"	"	"
259	SXI_20030224_160137828_AA_12	56	2	826	"	"	"
260	SXI_20030224_160940447_AA_12	56	2	826	"	"	"
261	SXI_20030224_161538199_AA_12	56	2	826	"	"	"
262	SXI_20030224_162245056_AA_12	56	1	825	"	"	"
263	SXI_20030224_164451093_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
264	SXI_20030225_145441482_AA_12	56	1	825	20030210_02	Kuhn-Lin raster; 3s 0V BGs	abort seq, HV anomaly, no img
265	SXI_20030225_155334325_AA_12	56	1	825	"	"	restart BGs
266	SXI_20030225_160058869_AA_12	56	2	826	"	" ; 3s 600V P_thin	Posn #1 (boresight)
267	SXI_20030225_160337494_AA_12	56	2	826	"	"	#2 (0.0 W, 0.09 N)
268	SXI_20030225_161036000_AA_12	56	2	826	"	"	#7 (0.21 W, 0.24 N)
269	SXI_20030225_161334882_AA_12	56	2	826	"	"	#5 (0.19 W, 0.27 S)

270	SXI_20030225_161637133_AA_12	56	2	826	"	"	#8 (0.18 W, 0.05 N)
271	SXI_20030225_162335638_AA_12	56	2	826	"	"	#3 (0.05 W, 0.21 N)
272	SXI_20030225_162936763_AA_12	56	2	826	"	"	#6 (boresight)
273	SXI_20030225_163235629_AA_12	56	2	826	"	"	#4 (0.0 W, 0.19 S)
274	SXI_20030225_163937509_AA_12	56	2	826	"	"	#11 (0.19 E, 0.28 N)
275	SXI_20030225_164236384_AA_12	56	2	826	"	"	#10 (0.21 E, 0.25 S)
276	SXI_20030225_164837517_AA_12	56	2	826	"	"	#9 (0.25 E, 0.05 S)
277	SXI_20030225_165644280_AA_12	56	1	825	"	" ; 3s 0V BGs	
278	SXI_20030225_171050275_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
279	SXI_20030225_195845018_AA_12	63	1	831		Eclipse seq, Ingress	Test prior to 1st eclipse
280	SXI_20030225_202145391_AA_12	63	10	831		Eclipse seq, Egress	"
281	SXI_20030225_205439407_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
282	SXI_20030227_055644425_AA_12	63	1	831		Eclipse seq, Ingress	2nd Eclipse test, penumbra only
283	SXI_20030227_062243667_AA_12	63	10	831		Eclipse seq, Egress	"
284	SXI_20030227_065148445_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
285	SXI_20030228_055043323_AA_12	63	1	831		Eclipse seq, Ingress	Partial Eclipse, 40%
286	SXI_20030228_062542576_AA_12	63	10	831		Eclipse seq, Egress	"
287	SXI_20030228_065447355_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
288	SXI_20030228_191702885_AA_12	53	1	1007	20021007_07	650V 30s BG	N/S (XRP) fast scan
289	SXI_20030228_191952894_AA_12	53	3	1009	"	0V 30s BG	
290	SXI_20030228_192203011_AA_12	53	2	1008	"	650V 30s P_Thin	no useful img
291	SXI_20030228_193002886_AA_12	53	1	1007	"	650V 30s BG	
292	SXI_20030228_193252885_AA_12	53	3	1009	"	0V 30s BG	
293	SXI_20030228_193503004_AA_12	53	2	1008	"	650V 30s P_Thin	no useful img, ABORT
294	SXI_20030228_194209105_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
295	SXI_20030228_202902849_AA_12	53	1	1007	20021007_07	650V 30s BG	N/S (XRP) fast scan, RETRY
296	SXI_20030228_203152856_AA_12	53	3	1009	"	0V 30s BG	
297	SXI_20030228_203402955_AA_12	53	2	1008	"	650V 30s P_Thin	no useful img, ABORT
298	SXI_20030228_204206853_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
299	SXI_20030301_054603231_AA_12	63	1	831		Eclipse seq, Ingress	1st full eclipse
300	SXI_20030301_062804357_AA_12	63	10	831		Eclipse seq, Egress	"
301	SXI_20030301_065709138_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
302	SXI_20030302_054203664_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
303	SXI_20030302_062901792_AA_12	63	10	831		Eclipse seq, Egress	"
304	SXI_20030302_065806573_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
305	SXI_20030303_053804097_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
306	SXI_20030303_063002596_AA_12	63	10	831		Eclipse seq, Egress	"
307	SXI_20030303_065907376_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
308	SXI_20030304_053800773_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
309	SXI_20030304_063002653_AA_12	63	10	831		Eclipse seq, Egress	"
310	SXI_20030304_065904053_AA_12	61	1	950	20020726_07	.015 & 3s 0V Opens, ext BGs	PATROL
311	SXI_20030304_202403704_AA_12	61	1	950	20020726_08	"	" , fix SFF in #896
312	SXI_20030305_053159696_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
313	SXI_20030305_063100069_AA_12	63	10	831		Eclipse seq, Egress	"
314	SXI_20030305_070004849_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL

315	SXI_20030306_052900858_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
316	SXI_20030306_063100109_AA_12	63	10	831		Eclipse seq, Egress	"
317	SXI_20030306_070004883_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
318	SXI_20030306_193003442_AA_12	58	1	844	20030305_01	at-voltage BGs and 1000V Be_thick	
319	SXI_20030306_210954399_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
320	SXI_20030307_052558638_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
321	SXI_20030307_063100136_AA_12	63	10	831		Eclipse seq, Egress	"
322	SXI_20030307_070001539_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
323	SXI_20030308_052259786_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
324	SXI_20030308_062959416_AA_12	63	10	831		Eclipse seq, Egress	"
325	SXI_20030308_065900820_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
326	SXI_20030309_052058315_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
327	SXI_20030309_062956062_AA_12	63	10	831		Eclipse seq, Egress	"
328	SXI_20030309_065900841_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
329	SXI_20030310_051756086_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
330	SXI_20030310_062855337_AA_12	63	10	831		Eclipse seq, Egress	"
331	SXI_20030310_065800114_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
332	SXI_20030311_051554594_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
333	SXI_20030311_062855347_AA_12	63	10	831		Eclipse seq, Egress	"
334	SXI_20030311_065800127_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
335	SXI_20030311_151452922_AA_12	53	1	1007	20021007_08	EW fast scan, 40sec 650V BG	
336	SXI_20030311_151752922_AA_12	53	3	1009	"	" , 40sec 0v BG	
337	SXI_20030311_152102880_AA_12	53	2	1008	"	" , 40sec 650V P_thin	+0 arcmin NS
338	SXI_20030311_153402907_AA_12	53	1	1007	"	EW fast scan, 40sec 650V BG	
339	SXI_20030311_153652908_AA_12	53	3	1009	"	" , 40sec 0v BG	
340	SXI_20030311_154002875_AA_12	53	2	1008	"	" , 40sec 650V P_thin	+8 arcmin NS
341	SXI_20030311_155302897_AA_12	53	1	1007	"	EW fast scan, 40sec 650V BG	
342	SXI_20030311_155552900_AA_12	53	3	1009	"	" , 40sec 0v BG	
343	SXI_20030311_155902869_AA_12	53	2	1008	"	" , 40sec 650V P_thin	+16 arcmin NS
344	SXI_20030311_161202882_AA_12	53	1	1007	"	EW fast scan, 40sec 650V BG	
345	SXI_20030311_161452887_AA_12	53	3	1009	"	" , 40sec 0v BG	
346	SXI_20030311_161802863_AA_12	53	2	1008	"	" , 40sec 650V P_thin	-8 arcmin NS
347	SXI_20030311_163102868_AA_12	53	1	1007	"	EW fast scan, 40sec 650V BG	
348	SXI_20030311_163352872_AA_12	53	3	1009	"	" , 40sec 0v BG	
349	SXI_20030311_163702857_AA_12	53	2	1008	"	" , 40sec 650V P_thin	-16 arcmin NS
350	SXI_20030311_164807238_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
351	SXI_20030311_191907993_AA_12	53	4	1010	20021007_08	1.11 sec 650V P_thin full-sun imgs	supplement to fast scan test
352	SXI_20030311_192607608_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
353	SXI_20030312_051403198_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
354	SXI_20030312_062804697_AA_12	63	10	831		Eclipse seq, Egress	"
355	SXI_20030312_065706098_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
356	SXI_20030313_051104275_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
357	SXI_20030313_062703896_AA_12	63	10	831		Eclipse seq, Egress	"
358	SXI_20030313_065605301_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
359	SXI_20030314_050902725_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse

360	SXI_20030314_062603086_AA_12	63	10	831		Eclipse seq, Egress	"
361	SXI_20030314_065504491_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
362	SXI_20030314_190502199_AA_12	59	1	910	20030311_01	Log-scaled imaging test, Open-B_thin, BGs	incl linear imgs for comparison
363	SXI_20030314_214856563_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
364	SXI_20030315_050701149_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
365	SXI_20030315_062502272_AA_12	63	10	831		Eclipse seq, Egress	"
366	SXI_20030315_065403675_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
367	SXI_20030316_050459576_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
368	SXI_20030316_062401442_AA_12	63	10	831		Eclipse seq, Egress	"
369	SXI_20030316_065302845_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
370	SXI_20030317_050301363_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
371	SXI_20030317_062300612_AA_12	63	10	831		Eclipse seq, Egress	"
372	SXI_20030317_065202010_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
373	SXI_20030318_050157153_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
374	SXI_20030318_062159768_AA_12	63	10	831		Eclipse seq, Egress	"
375	SXI_20030318_065101164_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
376	SXI_20030319_045958918_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
377	SXI_20030319_061958167_AA_12	63	10	831		Eclipse seq, Egress	"
378	SXI_20030319_064859571_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
379	SXI_20030320_045757315_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
380	SXI_20030320_061857306_AA_12	63	10	831		Eclipse seq, Egress	"
381	SXI_20030320_064758711_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
382	SXI_20030321_045656449_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
383	SXI_20030321_061655699_AA_12	63	10	831		Eclipse seq, Egress	"
384	SXI_20030321_064600470_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
385	SXI_20030322_045454838_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
386	SXI_20030322_061554828_AA_12	63	10	831		Eclipse seq, Egress	"
387	SXI_20030322_064459607_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
388	SXI_20030323_045353969_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
389	SXI_20030323_061353207_AA_12	63	10	831		Eclipse seq, Egress	"
390	SXI_20030323_064257984_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
391	SXI_20030324_045152341_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
392	SXI_20030324_061252338_AA_12	63	10	831		Eclipse seq, Egress	"
393	SXI_20030324_064157115_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
394	SXI_20030325_045051470_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
395	SXI_20030325_061050716_AA_12	63	10	831		Eclipse seq, Egress	"
396	SXI_20030325_063955493_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
397	SXI_20030326_044950595_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
398	SXI_20030326_060852464_AA_12	63	10	831		Eclipse seq, Egress	"
399	SXI_20030326_063753867_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
400	SXI_20030327_044849722_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
401	SXI_20030327_060650840_AA_12	63	10	831		Eclipse seq, Egress	"
402	SXI_20030327_063552242_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
403	SXI_20030328_044748844_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
404	SXI_20030328_060449211_AA_12	63	10	831		Eclipse seq, Egress	"

405	SXI_20030328_063353989_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
406	SXI_20030329_044647965_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
407	SXI_20030329_060247586_AA_12	63	10	831		Eclipse seq, Egress	"
408	SXI_20030329_063152357_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
409	SXI_20030330_044547084_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
410	SXI_20030330_060049327_AA_12	63	10	831		Eclipse seq, Egress	"
411	SXI_20030330_062950731_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
412	SXI_20030331_044446202_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
413	SXI_20030331_055847699_AA_12	63	10	831		Eclipse seq, Egress	"
414	SXI_20030331_062749098_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
415	SXI_20030401_045446819_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
416	SXI_20030401_055646067_AA_12	63	10	831		Eclipse seq, Egress	"
417	SXI_20030401_062547470_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
418	SXI_20030402_044345190_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
419	SXI_20030402_055444432_AA_12	63	10	831		Eclipse seq, Egress	"
420	SXI_20030402_062349212_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
421	SXI_20030403_044244302_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
422	SXI_20030403_055145422_AA_12	63	10	831		Eclipse seq, Egress	"
423	SXI_20030403_062046825_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
424	SXI_20030403_151647134_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
425	SXI_20030403_180045243_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL (timing test for ICT#62)
426	SXI_20030403_210045153_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	New Patrol, part 2, timing test
427	SXI_20030404_044244169_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
428	SXI_20030404_054943785_AA_12	63	10	831		Eclipse seq, Egress	"
429	SXI_20030404_061845188_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
430	SXI_20030404_125854786_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	New Patrol, part 1, timing test
431	SXI_20030405_044300903_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
432	SXI_20030405_054701646_AA_12	63	10	831		Eclipse seq, Egress	"
433	SXI_20030405_061606426_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
434	SXI_20030406_044200014_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
435	SXI_20030406_054402637_AA_12	63	10	831		Eclipse seq, Egress	"
436	SXI_20030406_061304034_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
437	SXI_20030407_044300627_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
438	SXI_20030407_054100246_AA_12	63	10	831		Eclipse seq, Egress	"
439	SXI_20030407_061005024_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
440	SXI_20030408_044300490_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
441	SXI_20030408_053757855_AA_12	63	10	831		Eclipse seq, Egress	"
442	SXI_20030408_060702633_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
443	SXI_20030409_044256976_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
444	SXI_20030409_053458850_AA_12	63	10	831		Eclipse seq, Egress	"
445	SXI_20030409_060400245_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
446	SXI_20030410_044357589_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse
447	SXI_20030410_053059085_AA_12	63	10	831		Eclipse seq, Egress	"
448	SXI_20030410_060000487_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
449	SXI_20030411_044458205_AA_12	63	1	831		Eclipse seq, Ingress	full eclipse

450	SXI_20030411_052655954_AA_12	63	10	831		Eclipse seq, Egress	"
451	SXI_20030411_055600731_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
452	SXI_20030412_044656200_AA_12	63	1	831		Eclipse seq, Ingress	partial eclipse (almost full)
453	SXI_20030412_052256194_AA_12	63	10	831		Eclipse seq, Egress	"
454	SXI_20030412_055157304_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	New Patrol, part 2
455	SXI_20030412_065856932_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	New Patrol, part 1
456	SXI_20030413_045005064_AA_12	63	1	831		Eclipse seq, Ingress	partial eclipse (end of season)
457	SXI_20030413_051708043_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	new patrol, " , 1st few imgs
458	SXI_20030413_054606461_AA_12	61	1	950	20020726_08	.015 & 3s 0V Opens, ext BGs	PATROL
459	SXI_20030413_065856799_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	New Patrol, part 1
460	SXI_20030426_075255399_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	OPS Patrol, part 2 (**START)**
461	SXI_20030426_085911052_AA_12	62	13	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	OPS Patrol, part 1, adj timing
462	SXI_20030708_125908487_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
463	SXI_20030722_125857488_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
464	SXI_20030729_125857068_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
465	SXI_20030804_223359382_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	
466	SXI_20030805_005906664_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
467	SXI_20030805_125900010_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
468	SXI_20030812_125909686_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
469	SXI_20030819_125904410_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
470	SXI_20030826_125854680_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
471	SXI_20030831_043700107_AA_12	63	1	831		Eclipse seq, Ingress	
472	SXI_20030831_050500850_AA_12	63	10	831		Eclipse seq, Egress	
473	SXI_20030831_053405334_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	
474	SXI_20030831_065904980_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
475	SXI_20030901_043159674_AA_12	63	1	831		Eclipse seq, Ingress	
476	SXI_20030901_050900416_AA_12	63	10	831		Eclipse seq, Egress	
477	SXI_20030901_053801538_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	
478	SXI_20030901_065901542_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	
479	SXI_20030902_042900741_AA_12	63	1	831		Eclipse seq, Ingress	
480	SXI_20030902_051058485_AA_12	63	10	831		Eclipse seq, Egress	
481	SXI_20030902_054002971_AA_12	62	29	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs	
482	SXI_20030902_065851361_AA_12	62	1	953	20030401_01	.015 & 3s 0V Opens, (alt) ext BGs + DEM	**HV Anomaly #1:** 07:05:10UT
483	SXI_20030902_125858341_AA_12	62	1	953	20030401_01	SOCC schedule filler	HV off, FW off; all images RDSH
484	MCPSI_20030902_175453182_AA_12	7	1	100	MCP		fast startup, no imgs; **anomaly #2**
485	MCPSI_20030902_205954011_AA_12	7	1	100	MCP		fast startup, no imgs; **anomaly #3**
486	SXI_20030903_042555328_AA_12	63	1	831		SOCC schedule filler	HV off, FW off; all images RDSH
487	SXI_20030903_051354201_AA_12	63	10	831		SOCC schedule filler	HV off, FW off; all images RDSH
488	SXI_20030903_054258686_AA_12	62	29	953		SOCC schedule filler	HV off, FW off; all images RDSH
489	SXI_20030903_065858310_AA_12	62	1	953		SOCC schedule filler	HV off, FW off; all images RDSH
490	MCPSI_20030903_155439761_AA_12	7	13	112	MCP	short startup	no imgs; **anomaly #4**
491	MCPSI_20030904_175638307_AA_12	53	1	100	20030903_01	short startup	no imgs; to 500V/3500V dwell
492	MCPSI_20030905_155337107_AA_12	53	13	112	20030903_02	short startup	no imgs; to 500V/5000V
493	MCPSI_20030909_150031789_AA_12	53	1	100	20030903_03	long startup	MCPSI imgs; to 500V/5000V
494	SXI_20030923_182113729_AA_12	53	1	1004	20030903_04	BG 15ms	HV off, single-image series

495	SXI_20030923_182423719_AA_12	53	2	1005	"	UV 15ms	"
496	SXI_20030923_184713705_AA_12	53	3	1006	"	BG 3sec	"
497	SXI_20030923_185023701_AA_12	53	4	1007	"	UV 3sec	"
498	SXI_20030923_185613697_AA_12	53	5	1008	"	BG 60sec	"
499	SXI_20030923_192223673_AA_12	53	6	1009	"	UV 60sec	"
500	SXI_20030923_194823611_AA_12	53	7	1010	"	OPEN 15ms	"
501	SXI_20030923_195223610_AA_12	53	8	1011	"	OPEN 3sec	"
502	SXI_20030923_195623604_AA_12	53	9	1012	"	OPEN 15sec	"
503	MCPSI_20030926_135110148_AA_12	53	1	100	20030903_05	long startup	HV on, MCP to 500V, Phos=4K
504	SXI_20030926_171610100_AA_12	53	73	1013	"	15ms BG	system shutdown due to overcurrent
505	MCPSI_20030929_185206103_AA_12	53	1	100	20030903_05	long startup, cycle HV on completion	HV on, MCP to 500V, Phos=4K
506	SXI_20030929_194205932_AA_12	53	73	1013	"	15ms BG	MCP=0V
507	SXI_20030929_194815885_AA_12	53	75	1014	"	15ms OPEN	"
508	SXI_20030929_195305929_AA_12	53	77	1015	"	3sec BG	"
509	SXI_20030929_195715882_AA_12	53	79	1016	"	3sec OPEN	"
510	MCPSI_20030930_182504843_AA_12	53	1	100	20030903_06	long startup, cycle HV on completion	HV on, MCP to 500V, Phos=4K
511	SXI_20030930_192304646_AA_12	53	79	854	"	3sec BG	MCP=200V
512	SXI_20030930_193314604_AA_12	53	81	855	"	3sec P_Thin_A	"
513	SXI_20030930_194714585_AA_12	53	83	856	"	15sec P_thin_A	"
514	SXI_20030930_195104636_AA_12	53	85	857	"	3sec BG	MCP=300V
515	SXI_20030930_195414582_AA_12	53	87	858	"	3sec P_Thin_A	"
516	SXI_20030930_201614553_AA_12	53	89	859	"	15sec P_thin_A	"
517	SXI_20030930_202404611_AA_12	53	91	860	"	3sec BG	MCP=400V
518	SXI_20030930_202714539_AA_12	53	93	861	"	3sec P_Thin_A	"
519	SXI_20030930_203514526_AA_12	53	95	862	"	15sec P_thin_A	"
520	SXI_20030930_204404583_AA_12	53	97	863	"	3sec BG	MCP=500V
521	SXI_20030930_204814509_AA_12	53	99	864	"	3sec P_Thin_A	"
522	SXI_20030930_205114498_AA_12	53	101	865	"	15sec P_thin_A	"
523	MCPSI_20031008_142354644_AA_12	53	1	100	20030903_07	short startup, cycle HV on completion	MCP to 500V, Phos=4K
524	SXI_20031008_145006417_AA_12	53	75	870	"	3sec OPEN	MCP=500V
525	SXI_20031008_150044292_AA_12	53	77	872	"	3sec imgs, full-filter_A set + BG	"
526	MCPSI_20031015_151945698_AA_12	53	1	100	20030903_08	short startup, cycle HV on completion	MCP to 500V, Phos=4K
527	SXI_20031015_153955537_AA_12	53	75	880	"	15sec P_thin_A	MCP=500V
528	SXI_20031015_154355533_AA_12	53	76	888	"	3sec full-filter_A set, incl OPEN (9sec)	"
529	SXI_20031015_173345471_AA_12	53	77	881	"	15sec full-filter_A set, NO OPEN	"
530	MCPSI_20031028_153430127_AA_12	53	1	100	20030903_09	short startup, cycle HV on completion	MCP to 500V, Phos=4K
531	SXI_20031028_163245148_AA_12	62	29	890	20030401_02	.015 & 3s 0V Opens, (alt) ext BGs	**new MCP=500V patrol**
532	SXI_20031029_145808582_AA_12	62	13	890	20030401_02	.015 & 3s 0V Opens, (alt) ext BGs + DEM	**shutdown for img timing error**
533	MCPSI_20031030_185352111_AA_12	53	1	100	20030903_09	short startup, cycle HV on completion	MCP to 500V, Phos=4K
534	SXI_20031030_192308468_AA_12	62	29	890	20030401_02	.015 & 3s 0V Opens, (alt) ext BGs	resume 500V patrol,clock offset
535	SXI_20031030_205832432_AA_12	62	1	890	20030401_02	.015 & 3s 0V Opens, (alt) ext BGs + DEM	"
536	SXI_20031030_210131316_AA_12	62	13	890	20030401_02	.015 & 3s 0V Opens, (alt) ext BGs + DEM	**shutdown, entrance filter failure**
537	SXI_20031107_184300857_AA_12	53	3	903	20031105_01	full filter series, 1ms to 60sec	LV only, light-leak test
538	MCPSI_20031112_211013368_AA_12	53	1	100	20030903_09	short startup, cycle HV on completion	MCP to 500V, Phos=4K
539	SXI_20031112_214829652_AA_12	62	1	904	20030401_04	short/long/XL "B" filters only	**prelim 500V patrol, bad entr. filt.**

540	SXI_20031210_175600790_AA_12	62	29	904	20030401_05	std BGs in test slots, 3s P_thin LL_BG in DEM	new 500V patrol w bad entr filter
541	SXI_20031210_190058909_AA_12	62	1	904	"	synch DEM to UT interval	
542	SXI_20031216_190541526_AA_12	62	1	904	"	reset synch DEM to UT interval	
543	SXI_20031223_034048591_AA_12	62	29	904	"		
544	SXI_20031223_150039259_AA_12	62	13	904	"		
545	SXI_20040203_175911100_AA_12	62	29	904	"		
546	SXI_20040203_210011699_AA_12	62	13	904	"		
547	SXI_20040227_052802585_AA_12	62	29	904	"	enter eclipse w/o DEM block	start of eclipse season
548	SXI_20040227_065853225_AA_12	62	1	904	"	exit eclipse, restore DEM block	
549	SXI_20040228_053252972_AA_12	62	29	904	"	enter eclipse w/o DEM block	
550	SXI_20040228_065849985_AA_12	62	1	904	"	exit eclipse, restore DEM block	
551	SXI_20040229_053551979_AA_12	62	29	904	"	enter eclipse w/o DEM block	
552	SXI_20040229_065850112_AA_12	62	1	904	"	exit eclipse, restore DEM block	
553	SXI_20040301_053850958_AA_12	62	29	904	"	enter eclipse w/o DEM block	
554	SXI_20040301_065900346_AA_12	62	1	904	"	exit eclipse, restore DEM block	
555	SXI_20040302_054059298_AA_12	62	29	904	"	enter eclipse w/o DEM block	
556	SXI_20040302_065846950_AA_12	62	1	904	"	exit eclipse, restore DEM block	
557	SXI_20040303_054247393_AA_12	62	29	904	"	enter eclipse w/o DEM block	
558	SXI_20040303_065857159_AA_12	62	1	904	"	exit eclipse, restore DEM block	
559	SXI_20040304_054344861_AA_12	62	29	904	"	enter eclipse w/o DEM block	
560	SXI_20040304_065847115_AA_12	62	1	904	"	exit eclipse, restore DEM block	
561	SXI_20040305_054546443_AA_12	62	29	904	"	enter eclipse w/o DEM block	
562	SXI_20040305_065843836_AA_12	62	1	904	"	exit eclipse, restore DEM block	
563	SXI_20040306_054654022_AA_12	62	29	904	"	enter eclipse w/o DEM block	
564	SXI_20040306_065854026_AA_12	62	1	904	"	exit eclipse, restore DEM block	
565	SXI_20040307_054744718_AA_12	62	29	904	"	enter eclipse w/o DEM block	
566	SXI_20040307_065843974_AA_12	62	1	904	"	exit eclipse, restore DEM block	
567	SXI_20040308_054842145_AA_12	62	29	904	"	enter eclipse w/o DEM block	
568	SXI_20040308_065844030_AA_12	62	1	904	"	exit eclipse, restore DEM block	
569	SXI_20040309_054842198_AA_12	62	29	904	"	enter eclipse w/o DEM block	
570	SXI_20040309_065840711_AA_12	62	1	904	"	exit eclipse, restore DEM block	
571	SXI_20040310_054939635_AA_12	62	29	904	"	enter eclipse w/o DEM block	
572	SXI_20040310_065840755_AA_12	62	1	904	"	exit eclipse, restore DEM block	
573	SXI_20040311_055040419_AA_12	62	29	904	"	enter eclipse w/o DEM block	
574	SXI_20040311_065850927_AA_12	62	1	904	"	exit eclipse, restore DEM block	
575	SXI_20040312_055037074_AA_12	62	29	904	"	enter eclipse w/o DEM block	
576	SXI_20040312_065847595_AA_12	62	1	904	"	exit eclipse, restore DEM block	
577	SXI_20040313_055037106_AA_12	62	29	904	"	enter eclipse w/o DEM block	
578	SXI_20040313_065847618_AA_12	62	1	904	"	exit eclipse, restore DEM block	
579	SXI_20040314_055144619_AA_12	62	29	904	"	enter eclipse w/o DEM block	
580	SXI_20040314_065837508_AA_12	62	1	904	"	exit eclipse, restore DEM block	
581	SXI_20040315_055144628_AA_12	62	29	904	"	enter eclipse w/o DEM block	
582	SXI_20040315_065834142_AA_12	62	1	904	"	exit eclipse, restore DEM block	
583	SXI_20040316_055339814_AA_12	62	31	900	"	enter eclipse w/o DEM block	
584	SXI_20040316_065834138_AA_12	62	1	904	"	exit eclipse, restore DEM block	

585	SXI_20040317_055339805_AA_12	62	31	900	"	enter eclipse w/o DEM block	
586	SXI_20040317_065834131_AA_12	62	1	904	"	exit eclipse, restore DEM block	
587	SXI_20040318_055339789_AA_12	62	31	900	"	enter eclipse w/o DEM block	
588	SXI_20040318_065830738_AA_12	62	1	904	"	exit eclipse, restore DEM block	
589	SXI_20040319_055336388_AA_12	62	31	900	"	enter eclipse w/o DEM block	
590	SXI_20040319_065830714_AA_12	62	1	904	"	exit eclipse, restore DEM block	
591	SXI_20040320_055228428_AA_12	62	29	904	"	enter eclipse w/o DEM block	
592	SXI_20040320_065830685_AA_12	62	1	904	"	exit eclipse, restore DEM block	
593	SXI_20040321_055235582_AA_12	62	31	900	"	enter eclipse w/o DEM block	
594	SXI_20040321_065837404_AA_12	62	1	904	"	exit eclipse, restore DEM block	
595	SXI_20040322_055036986_AA_12	62	29	904	"	enter eclipse w/o DEM block	
596	SXI_20040322_065837371_AA_12	62	1	904	"	exit eclipse, restore DEM block	
597	SXI_20040323_055137701_AA_12	62	29	904	"	enter eclipse w/o DEM block	
598	SXI_20040323_070022395_AA_12	62	3	910	"	exit eclipse, restore DEM block	
599	SXI_20040324_055036913_AA_12	62	29	904	"	enter eclipse w/o DEM block	
600	SXI_20040324_065833923_AA_12	62	1	904	"	exit eclipse, restore DEM block	
601	SXI_20040325_055023380_AA_12	62	29	904	"	enter eclipse w/o DEM block	
602	SXI_20040325_065833888_AA_12	62	1	904	"	exit eclipse, restore DEM block	
603	SXI_20040326_054932719_AA_12	62	29	904	"	enter eclipse w/o DEM block	
604	SXI_20040326_065924477_AA_12	62	1	904	"	exit eclipse, restore DEM block	
605	SXI_20040327_054932682_AA_12	62	29	904	"	enter eclipse w/o DEM block	
606	SXI_20040327_070018873_AA_12	62	3	910	"	exit eclipse, restore DEM block	
607	SXI_20040328_054821766_AA_12	62	29	904	"	enter eclipse w/o DEM block	
608	SXI_20040328_065921026_AA_12	62	1	904	"	exit eclipse, restore DEM block	
609	SXI_20040329_054720977_AA_12	62	29	904	"	enter eclipse w/o DEM block	
610	SXI_20040329_065920987_AA_12	62	1	904	"	exit eclipse, restore DEM block	
611	SXI_20040330_054620189_AA_12	62	29	904	"	enter eclipse w/o DEM block	
612	SXI_20040330_065927702_AA_12	62	1	904	"	exit eclipse, restore DEM block	
613	SXI_20040331_054516023_AA_12	62	29	904	"	enter eclipse w/o DEM block	
614	SXI_20040331_065917538_AA_12	62	1	904	"	exit eclipse, restore DEM block	
615	SXI_20040401_054415235_AA_12	62	29	904	"	enter eclipse w/o DEM block	
616	SXI_20040401_065917495_AA_12	62	1	904	"	exit eclipse, restore DEM block	
617	SXI_20040402_054314446_AA_12	62	29	904	"	enter eclipse w/o DEM block	
618	SXI_20040402_065914080_AA_12	62	1	904	"	exit eclipse, restore DEM block	
619	SXI_20040403_054223781_AA_12	62	29	904	"	enter eclipse w/o DEM block	
620	SXI_20040403_065924170_AA_12	62	1	904	"	exit eclipse, restore DEM block	
621	SXI_20040404_054012117_AA_12	62	29	904	"	enter eclipse w/o DEM block	
622	SXI_20040404_065914004_AA_12	62	1	904	"	exit eclipse, restore DEM block	
623	SXI_20040405_053911332_AA_12	62	29	904	"	enter eclipse w/o DEM block	
624	SXI_20040405_065910591_AA_12	62	1	904	"	exit eclipse, restore DEM block	
625	SXI_20040406_053719918_AA_12	62	29	904	"	enter eclipse w/o DEM block	
626	SXI_20040406_065910556_AA_12	62	1	904	"	exit eclipse, restore DEM block	
627	SXI_20040407_053609008_AA_12	62	29	904	"	enter eclipse w/o DEM block	
628	SXI_20040407_065910520_AA_12	62	1	904	"	exit eclipse, restore DEM block	
629	SXI_20040408_053417596_AA_12	62	29	904	"	enter eclipse w/o DEM block	

630	SXI_20040408_065907111_AA_12	62	1	904	"	exit eclipse, restore DEM block	
631	SXI_20040409_053108561_AA_12	62	29	904	"	enter eclipse w/o DEM block	
632	SXI_20040409_065917203_AA_12	62	1	904	"	exit eclipse, restore DEM block	
633	SXI_20040410_052907028_AA_12	62	29	904	"	enter eclipse w/o DEM block	
634	SXI_20040410_065907040_AA_12	62	1	904	"	exit eclipse, restore DEM block	
635	SXI_20040411_052503994_AA_12	62	29	904	"	enter eclipse w/o DEM block	
636	SXI_20040411_065907004_AA_12	62	1	904	"	exit eclipse, restore DEM block	
637	SXI_20040412_052104334_AA_12	62	29	904	"	enter eclipse w/o DEM block	
638	SXI_20040412_065903598_AA_12	62	1	904	"	exit eclipse, restore DEM block	end of eclipse season
639	SXI_20040415_215803479_AA_12	62	31	900	"		
640	SXI_20040415_230412072_AA_12	62	21	894	"		
641	SXI_20040708_193531344_AA_12	62	29	904	"		
642	SXI_20040708_205933552_AA_12	62	13	904	"		
643	SXI_20040826_181239849_AA_12	62	29	904	"		
644	SXI_20040826_185941336_AA_12	62	1	904	"		
645	SXI_20040830_051836093_AA_12	62	29	904	"	enter eclipse w/o DEM block	start of eclipse season
646	SXI_20040830_065846983_AA_12	62	1	904	"	exit eclipse, restore DEM block	
647	SXI_20040831_052235689_AA_12	62	29	904	"	enter eclipse w/o DEM block	
648	SXI_20040831_065846951_AA_12	62	1	904	"	exit eclipse, restore DEM block	
649	SXI_20040901_052534527_AA_12	62	29	904	"	enter eclipse w/o DEM block	
650	SXI_20040902_052732615_AA_12	62	29	904	"	enter eclipse w/o DEM block	exit eclipse was skipped for cmd time
651	SXI_20040902_065833383_AA_12	62	1	904	"	exit eclipse, restore DEM block	
652	SXI_20040903_052934078_AA_12	62	29	904	"	enter eclipse w/o DEM block	
653	SXI_20040903_070028529_AA_12	62	3	910	"	exit eclipse, restore DEM block	
654	SXI_20040904_053240106_AA_12	62	31	900	"	enter eclipse w/o DEM block	
655	SXI_20040904_065840057_AA_12	62	1	904	"	exit eclipse, restore DEM block	
656	SXI_20040905_053138888_AA_12	62	29	904	"	enter eclipse w/o DEM block	
657	SXI_20040905_065829897_AA_12	62	1	904	"	exit eclipse, restore DEM block	
658	SXI_20040906_053330231_AA_12	62	29	904	"	enter eclipse w/o DEM block	
659	SXI_20040906_070025053_AA_12	62	3	910	"	exit eclipse, restore DEM block	
660	SXI_20040907_053336947_AA_12	62	29	904	"	enter eclipse w/o DEM block	
661	SXI_20040907_070025022_AA_12	62	3	910	"	exit eclipse, restore DEM block	
662	SXI_20040908_053632844_AA_12	62	31	900	"	enter eclipse w/o DEM block	
663	SXI_20040908_065836547_AA_12	62	1	904	"	exit eclipse, restore DEM block	
664	SXI_20040909_053524872_AA_12	62	29	904	"	enter eclipse w/o DEM block	
665	SXI_20040909_070021573_AA_12	62	3	910	"	exit eclipse, restore DEM block	
666	SXI_20040910_053534959_AA_12	62	29	904	"	enter eclipse w/o DEM block	
667	SXI_20040910_065923726_AA_12	62	1	904	"	exit eclipse, restore DEM block	
668	SXI_20040911_053622178_AA_12	62	29	904	"	enter eclipse w/o DEM block	
669	SXI_20040911_070021497_AA_12	62	3	910	"	exit eclipse, restore DEM block	
670	SXI_20040912_053733019_AA_12	62	29	904	"	enter eclipse w/o DEM block	
671	SXI_20040912_070018091_AA_12	62	3	910	"	exit eclipse, restore DEM block	
672	SXI_20040913_053722859_AA_12	62	29	904	"	enter eclipse w/o DEM block	
673	SXI_20040913_065920248_AA_12	62	1	904	"	exit eclipse, restore DEM block	
674	SXI_20040914_053719448_AA_12	62	29	904	"	enter eclipse w/o DEM block	

675	SXI_20040914_065920210_AA_12	62	1	904	"	exit eclipse, restore DEM block	
676	SXI_20040915_053719414_AA_12	62	29	904	"	enter eclipse w/o DEM block	
677	SXI_20040915_065920177_AA_12	62	1	904	"	exit eclipse, restore DEM block	
678	SXI_20040916_053719376_AA_12	62	29	904	"	enter eclipse w/o DEM block	
679	SXI_20040916_065916762_AA_12	62	1	904	"	exit eclipse, restore DEM block	
680	SXI_20040917_053715972_AA_12	62	29	904	"	enter eclipse w/o DEM block	
681	SXI_20040917_065916738_AA_12	62	1	904	"	exit eclipse, restore DEM block	
682	SXI_20040918_053715959_AA_12	62	29	904	"	enter eclipse w/o DEM block	
683	SXI_20040918_065916721_AA_12	62	1	904	"	exit eclipse, restore DEM block	
684	SXI_20040919_053715928_AA_12	62	29	904	"	enter eclipse w/o DEM block	
685	SXI_20040919_065913318_AA_12	62	1	904	"	exit eclipse, restore DEM block	
686	SXI_20040920_053712523_AA_12	62	29	904	"	enter eclipse w/o DEM block	
687	SXI_20040920_065913287_AA_12	62	1	904	"	exit eclipse, restore DEM block	
688	SXI_20040921_053611740_AA_12	62	29	904	"	enter eclipse w/o DEM block	
689	SXI_20040921_065913254_AA_12	62	1	904	"	exit eclipse, restore DEM block	
690	SXI_20040922_053611711_AA_12	62	29	904	"	enter eclipse w/o DEM block	
691	SXI_20040922_065909848_AA_12	62	1	904	"	exit eclipse, restore DEM block	
692	SXI_20040923_053510935_AA_12	62	29	904	"	enter eclipse w/o DEM block	
693	SXI_20040923_065909823_AA_12	62	1	904	"	exit eclipse, restore DEM block	
694	SXI_20040924_053517659_AA_12	62	29	904	"	enter eclipse w/o DEM block	
695	SXI_20040924_065909798_AA_12	62	1	904	"	exit eclipse, restore DEM block	
696	SXI_20040924_180308532_AA_12	62	29	904	20030401_06	enter eclipse w/o DEM block	new patrol ICT62, version 6
697	SXI_20040924_185613948_AA_12	62	3	933	"	exit eclipse, restore DEM block	
698	SXI_20040925_053406768_AA_12	62	29	904	"	enter eclipse w/o DEM block	
699	SXI_20040925_065906840_AA_12	62	1	910	"	exit eclipse, restore DEM block	
700	SXI_20040926_053416878_AA_12	62	29	904	"	enter eclipse w/o DEM block	
701	SXI_20040926_065903457_AA_12	62	1	910	"	exit eclipse, restore DEM block	
702	SXI_20040927_053316130_AA_12	62	29	904	"	enter eclipse w/o DEM block	
703	SXI_20040927_065903456_AA_12	62	1	910	"	exit eclipse, restore DEM block	
704	SXI_20040928_053215384_AA_12	62	29	904	"	enter eclipse w/o DEM block	
705	SXI_20040928_065903461_AA_12	62	1	910	"	exit eclipse, restore DEM block	
706	SXI_20040929_053114646_AA_12	62	29	904	"	enter eclipse w/o DEM block	
707	SXI_20040929_065910226_AA_12	62	1	910	"	exit eclipse, restore DEM block	
708	SXI_20040930_053101170_AA_12	62	29	904	"	enter eclipse w/o DEM block	
709	SXI_20040930_065910249_AA_12	62	1	910	"	exit eclipse, restore DEM block	
710	SXI_20041001_053010573_AA_12	62	29	904	"	enter eclipse w/o DEM block	
711	SXI_20041001_065900152_AA_12	62	1	910	"	exit eclipse, restore DEM block	
712	SXI_20041002_052859734_AA_12	62	29	904	"	enter eclipse w/o DEM block	
713	SXI_20041002_065856816_AA_12	62	1	910	"	exit eclipse, restore DEM block	
714	SXI_20041003_052658275_AA_12	62	29	904	"	enter eclipse w/o DEM block	
715	SXI_20041003_065906978_AA_12	62	1	910	"	exit eclipse, restore DEM block	
716	SXI_20041004_052557570_AA_12	62	29	904	"	enter eclipse w/o DEM block	
717	SXI_20041004_065856894_AA_12	62	1	910	"	exit eclipse, restore DEM block	
718	SXI_20041005_052456870_AA_12	62	29	904	"	enter eclipse w/o DEM block	
719	SXI_20041005_065853577_AA_12	62	1	910	"	exit eclipse, restore DEM block	

720	SXI_20041006_052255428_AA_12	62	29	904	"	enter eclipse w/o DEM block	
721	SXI_20041006_065903755_AA_12	62	1	910	"	exit eclipse, restore DEM block	
722	SXI_20041007_052154746_AA_12	62	29	904	"	enter eclipse w/o DEM block	
723	SXI_20041007_065853700_AA_12	62	1	910	"	exit eclipse, restore DEM block	
724	SXI_20041008_051953309_AA_12	62	29	904	"	enter eclipse w/o DEM block	
725	SXI_20041008_065850398_AA_12	62	1	910	"	exit eclipse, restore DEM block	
726	SXI_20041008_175649413_AA_12	58	1	908	20041004_01	test XL BGs and LLs for rocket cal	
727	SXI_20041008_183059370_AA_12	54	1	907	20040922_01	test of rocket underflight seq	aborted after 1st image
728	SXI_20041008_190451803_AA_12	62	1	910	20030401_06	resume patrol with DEM block	
729	SXI_20041009_051755279_AA_12	62	29	904	"	enter eclipse w/o DEM block	
730	SXI_20041009_065850492_AA_12	62	1	910	"	exit eclipse, restore DEM block	
731	SXI_20041010_051553880_AA_12	62	29	904	"	enter eclipse w/o DEM block	
732	SXI_20041010_065850589_AA_12	62	1	910	"	exit eclipse, restore DEM block	
733	SXI_20041011_051352479_AA_12	62	29	904	"	enter eclipse w/o DEM block	
734	SXI_20041011_065847324_AA_12	62	1	910	"	exit eclipse, restore DEM block	
735	SXI_20041012_051050357_AA_12	62	29	904	"	enter eclipse w/o DEM block	
736	SXI_20041012_065857569_AA_12	62	1	910	"	exit eclipse, restore DEM block	
737	SXI_20041012_182745498_AA_12	54	1	907	20040922_01	test of rocket underflight seq	
738	SXI_20041012_190358238_AA_12	62	1	910	20030401_06	resume patrol with DEM block	
739	SXI_20041013_050748238_AA_12	62	29	904	"	enter eclipse w/o DEM block	
740	SXI_20041013_065847575_AA_12	62	1	910	"	exit eclipse, restore DEM block	
741	SXI_20041014_050358873_AA_12	62	29	904	"	enter eclipse w/o DEM block	
742	SXI_20041014_065844337_AA_12	62	1	910	"	exit eclipse, restore DEM block	
743	SXI_20041015_045546267_AA_12	62	29	904	"	enter eclipse w/o DEM block	
744	SXI_20041015_065844484_AA_12	62	1	910	"	exit eclipse, restore DEM block	end of eclipse season
745	SXI_20041015_145452834_AA_12	58	1	908	20041004_01	XL BGs and LLs for rocket cal	
746	SXI_20041015_155252813_AA_12	54	1	907	20040922_01	Rocket underflight seq	
747	SXI_20041015_175352738_AA_12	58	1	908	20041004_01	XL BGs and LLs for rocket cal	
748	SXI_20041015_185754171_AA_12	62	1	910	20030401_06	resume patrol	
	20041021_1832/1836UT						XRP .5deg N/S for Kuhn setup test
749	SXI_20041027_150342421_AA_12	55	1	935	20030207_02	test 100-500V MCP sweep	**current overlimit @ 100V image**
750	SXI_20041027_185843631_AA_12	62	1	910	20030401_06	resume patrol	
751	SXI_20041101_185838131_AA_12	55	1	935	20030207_04	run 200-500V MCP sweep	
752	SXI_20041101_210229717_AA_12	62	14	905	20030401_06	resume patrol	
753	SXI_20041118_181429900_AA_12	62	29	904	20030401_06	resynch patrol timing	
754	SXI_20041118_190027579_AA_12	62	1	910	20030401_06	restore DEM block	
	SXI_20041119_164915161_AA_12	56	1	908	20030210_03	Kuhn raster	some images lost, SEC power failure
	SXI_20041119_201200830_AA_12	62	30	905	20030401_06	resume patrol	
755	SXI_20041202_165007629_AA_12	56	1	908	20030210_03	Kuhn raster	repeat of Nov 19 test
756	SXI_20041202_181811044_AA_12	62	29	904	20030401_06	resynch patrol timing	
757	SXI_20041202_185811096_AA_12	62	1	910	20030401_06	restore DEM block	
758	SXI_20041207_172515114_AA_12	51	1	834	20041111_01	UV bulb test	bulb OFF images; check for light leak
759	UVBI_20041207_174915109_AA_12	51	1	834	"	"	bulb ON images
760	SXI_20041207_190306800_AA_12	62	1	910	20030401_06	resume patrol, restore DEM block	
761	SXI_20041214_190202435_AA_12	62	1	910	20030401_06	resume patrol, restore DEM block	reset after routine offpoint