

FINAL STARDUST CAMERA FLIGHT IMAGE LOG

Date*	Image Name	Image#	Filter#	Expos	Lamp	Mirror	Target	Size	Comp	Image
3/19/99	n0001c131.IMG	1	3	0	Off		Bias	Full	Off	
3/19/99	n0002c131.IMG	2	3	100	On	91.8 deg	Cal Lamp	Full	Off	No image visible
3/19/99	n0003c141.IMG	3	4	100	On	91.8 deg	Cal Lamp	Full	Off	No image visible
10/21/99	n0100c131.IMG	100	3	0	Off		Bias	Full	Off	
10/21/99	n0101c131.IMG	101	3	500	Off	98.8 deg	o Oph	Full	Off	No images visible
10/21/99	n0102c141.IMG	102	4	500	Off	98.8 deg	o Oph	Full	Off	No images visible
10/21/99	n0103c151.IMG	103	5	500	Off	98.8 deg	o Oph	Full	Off	No images visible
10/21/99	n0104c161.IMG	104	6	500	Off	98.8 deg	o Oph	Full	Off	No images visible
10/21/99	n0105c171.IMG	105	7	500	Off	98.8 deg	o Oph	Full	Off	Two diffuse images; limiting mag ~6.0
10/21/99	n0106c101.IMG	106	0	500	Off	98.8 deg	o Oph	Full	Off	Two diffuse images; limiting mag ~6.0
10/21/99	n0107c111.IMG	107	1	500	Off	98.8 deg	o Oph	Full	Off	No images visible
10/21/99	n0108c121.IMG	108	2	500	Off	98.8 deg	o Oph	Full	Off	No images visible
2/22/00	n0110c101.IMG	110	0	200	On	0 deg	Cal Lamp	Full	Off	Saturated (overexposed)
2/22/00	n0111c101.IMG	111	0	200	On	0 deg	Cal Lamp	Top Half	Off	Saturated (overexposed)
2/29/00	n0112c101.IMG	112	0	20	On	0 deg	Cal Lamp	Full	Off	Diffused lamp in heavily contaminated field
2/29/00	n0113c101.IMG	113	0	20	On	0 deg	Cal Lamp	Full	Off	Diffused lamp in heavily contaminated field
5/30/00	n0114c171.IMG	114	7	0	Off		Bias	W 351x351	Off	
5/30/00	n0115c171.IMG	115	7	10	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0116c171.IMG	116	7	35	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0117c171.IMG	117	7	100	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0118c171.IMG	118	7	350	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0119c171.IMG	119	7	1000	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0120c101.IMG	120	0	0	Off		Bias	W 351x351	Off	
5/30/00	n0121c101.IMG	121	0	10	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0122c101.IMG	122	0	50	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0123c101.IMG	123	0	200	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0124c101.IMG	124	0	1000	Off	30 deg	Vega	W 351x351	Off	Large diffuse image of Vega
5/30/00	n0125c101.IMG	125	0	0	Off		Bias	W 351x351	Off	
5/30/00	n0126c101.IMG	126	0	10	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0127c101.IMG	127	0	50	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0128c101.IMG	128	0	200	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0129c101.IMG	129	0	1000	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0130c171.IMG	130	7	0	Off		Bias	W 351x351	Off	
5/30/00	n0131c171.IMG	131	7	10	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0132c171.IMG	132	7	35	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0133c171.IMG	133	7	100	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0134c171.IMG	134	7	350	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0135c171.IMG	135	7	1000	Off	0 deg	Vega	W 351x351	Off	No images; much scattered light
5/30/00	n0136c171.IMG	136	7	0	Off		Bias	W 351x351	Off	
5/30/00	n0137c171.IMG	137	7	30	Off	0 deg	Cal Lamp	W 351x351	Off	Diffuse illumination over mottled field
5/30/00	n0138c131.IMG	138	3	20000	On	0 deg	Cal Lamp	W 351x351	Off	Diffuse illumination over mottled field
5/30/00	n0139c151.IMG	139	5	2000	On	0 deg	Cal Lamp	W 351x351	Off	Diffuse illumination over mottled field
5/30/00	n0140c101.IMG	140	0	20	On	0 deg	Cal Lamp	W 351x351	Off	Diffused lamp in heavily contaminated field
5/30/00	n0141c101.IMG	141	0	0	Off		Bias	W 351x351	Off	
8/8/00	n0142c131.IMG	142	3	0	Off		Bias	W 351x351	Off	Solar flare effects test - no obvious change
8/16/00	n0143c101.IMG	143	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- 0 hr. (pre-test)
8/16/00	n0144c171.IMG	144	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- 0 hr. (pre-test)
8/16/00	n0145c101.IMG	145	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 1 hr.
8/16/00	n0146c171.IMG	146	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 1 hr.
8/16/00	n0147c101.IMG	147	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 2 hr.
8/16/00	n0148c171.IMG	148	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 2 hr.
8/16/00	n0149c101.IMG	149	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 4 hr.
8/16/00	n0150c171.IMG	150	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 4 hr.
8/16/00	n0151c101.IMG	151	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 8 hr.
8/16/00	n0152c171.IMG	152	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 8 hr.
8/16/00	n0153c101.IMG	153	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 16 hr.
8/16/00	n0154c171.IMG	154	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 16 hr.
8/16/00	n0155c101.IMG	155	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 32 hr.
8/16/00	n0156c171.IMG	156	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 32 hr.
8/16/00	n0157c101.IMG	157	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 56 hr.
8/16/00	n0158c171.IMG	158	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 56 hr.
8/16/00	n0159c101.IMG	159	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 100hr.
8/16/00	n0160c171.IMG	160	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 100hr.
8/16/00	n0161c101.IMG	161	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after 143 hr.
8/16/00	n0162c171.IMG	162	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after 143 hr.
8/30/00	n0163c101.IMG	163	0	10	On	0 deg	Cal Lamp	Full	Off	Heating Test -- after cold again
8/30/00	n0164c171.IMG	164	7	150	On	0 deg	Cal Lamp	W 351x351	Off	Heating Test -- after cold again
9/12/00	n0165c101.IMG	165	0	2000	Off	14.8 deg	□ Aqr	Full	Off	18.8 pixels smear; scattered light; split image
9/12/00	n0166c101.IMG	166	0	1000	Off	77.3 deg	45&46 Ari	Full	Off	Field in Aries
9/12/00	n0167c101.IMG	167	0	1000	Off	99.8 deg	67&69 Tau	Full	Off	Field in Taurus
9/12/00	n0168c101.IMG	168	0	1000	Off	124.8 deg	□ Gem	Full	Off	Field in Gemini
9/12/00	n0169c101.IMG	169	0	1000	Off	157.3 deg	31 Cnc	Full	Off	Field in Cancer. Considerable scattered light
9/26/00	n0170c101.IMG	170	0	2000	Off	9.8 deg	□ Aqr	Full	Off	Tremendous scattered light
9/26/00	n0171c101.IMG	171	0	1000	Off	94.8 deg	67&69 Tau	Full	Off	Same field as 167; less drift
9/26/00	n0172c101.IMG	172	0	1000	Off	119.8 deg	□ Gem	Full	Off	Same field as 168; less drift
9/26/00	n0173c101.IMG	173	0	1000	Off	137.3 deg	□ Gem	Full	Off	New field in Gemini
9/26/00	n0174c101.IMG	174	0	1000	Off	177.3 deg	Regulus	Full	Off	Field in Leo. Considerable scattered light
10/17/00	n0175c101.IMG	175	0	1000	Off	28.0 deg	Pleiades	Full	Off	3.89 pixels smear; Some scattered light
10/17/00	n0176c101.IMG	176	0	1000	Off	28.8 deg	Pleiades	Full	Off	3.30 pixels smear; Some scattered light
10/17/00	n0177c171.IMG	177	7	1000	Off	28.8 deg	Pleiades	Full	Off	2.36 pixels smear; Some scattered light
10/17/00	n0178c101.IMG	178	0	1000	Off	29.8 deg	Pleiades	Full	Off	0.72 pixels smear; Some scattered light
10/17/00	n0179c101.IMG	179	0	1000	Off	30.7 deg	Pleiades	Full	Off	0.39 pixels smear; Some scattered light
10/17/00	n0180c101.IMG	180	0	1000	Off	28.5 deg	Pleiades	Full	Off	7.50 pixels smear; Some scattered light
10/17/00	n0181c101.IMG	181	0	1000	Off	28.6 deg	Pleiades	Full	Off	0.56 pixels smear; Some scattered light
10/17/00	n0182c171.IMG	182	7	1000	Off	28.6 deg	Pleiades	Full	Off	6.08 pixels smear; Some scattered light

10/17/00	n0183c101.img	183	0	1000	Off	29.8 deg	Pleiades	Full	Off	1.22 pixels smear; Some scattered light
10/17/00	n0184c101.img	184	0	1000	Off	30.7 deg	Pleiades	Full	Off	0.85 pixels smear; Some scattered light
10/17/00	n0185c101.img	185	0	1000	Off	28.5 deg	Pleiades	Full	Off	1.56 pixels smear; Some scattered light
10/17/00	n0186c101.img	186	0	1000	Off	28.5 deg	Pleiades	Full	Off	0.52 pixels smear; Some scattered light
10/17/00	n0187c171.img	187	7	1000	Off	28.5 deg	Pleiades	Full	Off	6.37 pixels smear; Some scattered light
10/17/00	n0188c101.img	188	0	1000	Off	29.8 deg	Pleiades	Full	Off	1.55 pixels smear; Some scattered light
10/17/00	n0189c101.img	189	0	1000	Off	30.7 deg	Pleiades	Full	Off	1.57 pixels smear; Some scattered light
10/17/00	n0190c101.img	190	0	1000	Off	30.7 deg	Pleiades	Full	On	2.21 pixels smear; Some scattered light
11/27/00	n0191ee01.img	191	0	10	On	0 deg	CalLamp	Full	Off	Baseline for new heating cycle
1/5/01	n0192ee01.img	192	0	10	On	89.6 deg	CalLamp	Full	Off	Image after 2nd. heating cycle
1/5/01	n0193ee01.img	193	0	1000	Off	89.6 deg	Star field	Full	Off	1.01 pixels smear; random Taurus star field
1/5/01	n0194ee01.img	194	0	1000	Off	89.6 deg	Star field	Full	Off	1.27 pixels smear; random Taurus star field
1/5/01	n0195ee01.img	195	0	1000	Off	89.6 deg	Star field	Full	Off	0.57 pixels smear; random Taurus star field
1/5/01	n0196ee01.img	196	0	1000	Off	89.6 deg	Star field	Full	Off	0.14 pixels smear; random Taurus star field
1/16/01	n0197ee01.img	197	0	0	Off	119.95 deg	bias	Full	Off	
1/16/01	n0198ee01.img	198	0	5	Off	119.95 deg	Moon	Full	Off	Moon centered; partially saturated
1/16/01	n0199ee21.img	199	2	25	Off	119.95 deg	Moon	Full	Off	Moon centered
1/16/01	n0200ee31.img	200	3	45	Off	119.95 deg	Moon	Full	Off	Moon centered
1/16/01	n0201ee51.img	201	5	60	Off	119.95 deg	Moon	Full	Off	Moon centered
1/16/01	n0202ee71.img	202	7	5	Off	119.95 deg	Moon	Full	Off	Moon centered; partially saturated
1/16/01	n0203ee01.img	203	0	0	Off	119.95 deg	bias	Full	Off	
1/16/01	n0204ee01.img	204	0	0	Off	119.95 deg	bias	Full	On	
1/16/01	n0205ee01.img	205	0	5	Off	119.95 deg	Moon	Full	On	Moon centered; partially saturated
1/16/01	n0206ee11.img	206	1	25	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0207ee21.img	207	2	25	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0208ee31.img	208	3	45	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0209ee41.img	209	4	75	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0210ee51.img	210	5	60	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0211ee61.img	211	6	100	Off	119.95 deg	Moon	Full	On	Moon centered
1/16/01	n0212ee71.img	212	7	5	Off	119.95 deg	Moon	Full	On	Moon centered; partially saturated
1/16/01	n0213ee71.img	213	7	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; almost OK
1/16/01	n0214ee01.img	214	0	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0215ee01.img	215	0	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0216ee71.img	216	7	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0217ee71.img	217	7	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; almost OK
1/16/01	n0218ee01.img	218	0	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0219ee01.img	219	0	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0220ee71.img	220	7	5	Off	119.95 deg	Moon	Full	On	Moon in quadrant; partially saturated
1/16/01	n0221ee71.img	221	7	0	Off	119.95 deg	bias	Full	On	
2/26/01	n0222c201.img	222	0	1000	Off	0 deg	Star field	Full	On	Geometric Calibration; smear 0.44 pixels
2/26/01	n0223c201.img	223	0	1000	Off	10 deg	Star field	Full	On	Geometric Calibration; smear 0.16 pixels
2/26/01	n0224c201.img	224	0	1000	Off	20 deg	Star field	Full	On	Geometric Calibration; smear 0.76 pixels
2/26/01	n0225c201.img	225	0	1000	Off	30 deg	Star field	Full	On	Geometric Calibration; smear 0.47 pixels
2/26/01	n0226c201.img	226	0	1000	Off	40 deg	Star field	Full	On	Geometric Calibration; smear 0.58 pixels
2/26/01	n0227c201.img	227	0	1000	Off	50 deg	Star field	Full	On	Geometric Calibration; smear 0.79 pixels
2/26/01	n0228c201.img	228	0	1000	Off	60 deg	Star field	Full	On	Geometric Calibration; smear 0.69 pixels
2/26/01	n0229c201.img	229	0	1000	Off	70 deg	Star field	Full	On	Geometric Calibration; smear 0.60 pixels
2/26/01	n0230c201.img	230	0	1000	Off	80 deg	Star field	Full	On	Geometric Calibration; smear 0.84 pixels
2/26/01	n0231c271.img	231	7	1000	Off	80 deg	Star field	Full	On	Geometric Calibration; smear 0.79 pixels
2/26/01	n0232c271.img	232	7	1000	Off	90 deg	Star field	Full	On	Geometric Calibration; smear 1.04 pixels
2/26/01	n0233c201.img	233	0	1000	Off	90 deg	Star field	Full	On	Geometric Calibration; smear 1.06 pixels
2/26/01	n0234c201.img	234	0	1000	Off	100 deg	Star field	Full	On	Geometric Calibration; smear 0.75 pixels
2/26/01	n0235c201.img	235	0	1000	Off	110 deg	Star field	Full	On	Geometric Calibration; smear 1.20 pixels
2/26/01	n0236c201.img	236	0	1000	Off	120 deg	Star field	Full	On	Geometric Calibration; smear 0.63 pixels
2/26/01	n0237c201.img	237	0	1000	Off	130 deg	Star field	Full	On	Geometric Calibration; smear 0.72 pixels
2/26/01	n0238c201.img	238	0	1000	Off	140 deg	Star field	Full	On	Geometric Calibration; smear 0.61 pixels
2/26/01	n0239c201.img	239	0	1000	Off	150 deg	Star field	Full	On	Geometric Calibration; smear 0.29 pixels
2/26/01	n0240c201.img	240	0	1000	Off	160 deg	Star field	Full	On	Geometric Calibration; smear 0.13 pixels
2/26/01	n0241c201.img	241	0	1000	Off	170 deg	Star field	Full	On	Geometric Calibration; smear 0.68 pixels
2/26/01	n0242c201.img	242	0	1000	Off	180 deg	Star field	Full	On	Geometric Calibration; smear 0.45 pixels
3/1/01	n0243c201.img	243	0	10	On	0 deg	Cal Lamp	Full	Off	Check Filter Position
3/1/01	n0244c201.img	244	0	1000	Off	90 deg	Star field	Full	Off	Contamination Check; smear 0.54 pixels
3/1/01	n0245c201.img	245	0	1000	Off	90 deg	Star field	Full	On	Contamination Check; smear 0.43 pixels
3/13/01	n0246c201.img	246	0	10	On	0 deg	Cal Lamp	Full	Off	Filter Position Check
3/13/01	n0247c201.img	247	0	100	Off	0 deg	Spica	Full	Off	Periscope Calibration; smear 0.03 pixels
3/13/01	n0248c201.img	248	0	2000	Off	0 deg	Spica	Full	Off	Periscope Calibration; smear 1.13 pixels
3/13/01	n0249c201.img	249	0	1000	Off	0 deg	Spica	Full	Off	Periscope Calibration; smear 0.19 pixels
3/13/01	n0250c201.img	250	0	1000	Off	5 deg	Star Field	Full	Off	Periscope Calibration; smear 0.38 pixels
3/13/01	n0251c201.img	251	0	1000	Off	10 deg	Star Field	Full	Off	Periscope Calibration; smear 0.45 pixels
3/13/01	n0252c201.img	252	0	1000	Off	15 deg	Star Field	Full	Off	Periscope Calibration; smear 0.21 pixels
3/13/01	n0253c201.img	253	0	1000	Off	20 deg	Star Field	Full	Off	Periscope Calibration; smear 0.25 pixels
3/13/01	n0254c201.img	254	0	1000	Off	30 deg	Spica	Full	Off	Periscope Calibration; smear 0.26 pixels
3/13/01	n0255c201.img	255	0	100	Off	30 deg	Spica	Full	Off	Periscope Calibration; smear 0.03 pixels
3/22/01	n0256c201.img	256	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
3/22/01	n0257c201.img	257	0	1000	Off	120 deg	□Boo	Full	Off	Contamination Check; smear 0.15 pixels
3/27/01	n0258c201.img	258	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
3/27/01	n0259c201.img	259	0	1000	Off	120 deg	Star Field	Full	Off	Contamination Check; smear 0.55 pixels
3/27/01	n0260c201.img	260	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
3/27/01	n0261c201.img	261	0	1000	Off	120 deg	Star Field	Full	Off	Contamination Check; smear 2.49 pixels
3/27/01	n0262c201.img	262	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
3/27/01	n0263c201.img	263	0	1000	Off	120 deg	Star Field	Full	Off	Contamination Check; smear 0.69 pixels
4/2/01	n0264c201.img	264	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
4/2/01	n0265c201.img	265	0	1000	Off	120 deg	□CVn	Full	Off	Contamination Check; smear 1.02 pixels
4/10/01	n0266c201.img	266	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
4/10/01	n0267c201.img	267	0	1000	Off	120 deg	Star Field	Full	Off	Contamination Check; smear 0.32 pixels
4/18/01	n0268c201.img	268	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check

4/18/01	n0269c201.img	269	0	1000	Off	32.5 deg	□ Lib	Full	Off	Contamination Check; smear 0.97 pixels
4/25/01	n0270c201.img	270	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
4/25/01	n0271c201.img	271	0	1000	Off	32.5 deg	Star Field	Full	Off	Contamination Check; smear 0.70 pixels
4/30/01	n0272c201.img	272	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check; Heater Now Off
4/30/01	n0273c201.img	273	0	100	Off	32.5 deg	□ Lib	Full	Off	Contamination Check; smear 0.04 pixels
5/7/01	n0274c201.img	274	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
5/7/01	n0275c201.img	275	0	1000	Off	32.5 deg	49 Lib	Full	Off	Contamination Check; smear 0.56 pixels
5/17/01	n0276c201.img	276	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
5/17/01	n0277c201.img	277	0	1000	Off	32.5 deg	□ Sco	Full	Off	Contamination Check; smear 0.62 pixels
5/25/01	n0278c201.img	278	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
5/25/01	n0279c201.img	279	0	1000	Off	80.0 deg	51 vir	Full	Off	Contamination Check; smear 0.52 pixels
5/31/01	n0280c201.img	280	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination Check
5/31/01	n0281c201.img	281	0	1000	Off	67.5 deg	95 Vir	Full	Off	Contamination Check; smear 0.49 pixels
6/8/01	n0282c201.img	282	0	3000	Off	0 deg	Guide stars	Full	Off	smear 2.89 pixels; scattered light
6/8/01	n0283c201.img	283	0	3000	Off	0 deg	Guide stars	Full	Off	smear 2.05 pixels; scattered light
6/8/01	n0284c201.img	284	0	3000	Off	0 deg	Guide stars	Full	Off	smear 2.96 pixels; scattered light
6/8/01	n0285c201.img	285	0	1000	Off	0 deg	Guide stars	Full	Off	smear 0.10 pixels; scattered light
6/8/01	n0286c201.img	286	0	1000	Off	10 deg		Full	Off	smear 0.02 pixels; scattered light
6/8/01	n0287c201.img	287	0	1000	Off	20 deg		Full	Off	smear 0.70 pixels; off periscope
6/8/01	n0288c201.img	288	0	1000	Off	39.8 deg		Full	Off	smear 0.31 pixels; some mirror motion
6/8/01	n0289c201.img	289	0	1000	Off	59.8 deg		Full	Off	smear 0.69 pixels; some mirror motion
6/8/01	n0290c201.img	290	0	1000	Off	79.8 deg		Full	Off	smear 0.79 pixels; some mirror motion
6/8/01	n0291c201.img	291	0	1000	Off	99.8 deg		Full	Off	smear 0.04 pixels; some mirror motion
6/8/01	n0292c201.img	292	0	1000	Off	119.8 deg		Full	Off	smear 0.19 pixels; some mirror motion
6/8/01	n0293c201.img	293	0	1000	Off	30.0 deg	Guide stars	Full	Off	smear 0.60 pixels; same field as 282 - 285
6/8/01	n0294c201.img	294	0	3000	Off	30.0 deg	Guide stars	Full	Off	smear 1.99 pixels; same field as 282 - 285
6/8/01	n0295c201.img	295	0	3000	Off	30.0 deg	Guide stars	Full	Off	smear 0.84 pixels; same field as 282 - 285
6/8/01	n0296c201.img	296	0	3000	Off	30.0 deg	Guide stars	Full	Off	smear 1.12 pixels; same field as 282 - 285
6/8/01	n0297c201.img	297	0	5000	Off	30.0 deg	Guide stars	Full	Off	smear 0.14 pixels!!!; same field as 282 - 285
8/29/01	n0298c201.img	298	0	1000	Off	30.0 deg		Full	Off	Contamination check; smear 0.44 pixels
8/29/01	n0299c201.img	299	0	3000	Off	60.0 deg	24 Oph	Full	Off	Contamination check; smear 0.88 pixels
10/29/01	n0300c201.img	300	0	1000	Off	20.0 deg	65 Cet	Full	Off	Scattered light check; smear 0.41 pixels
9/3/02	n0301c201.img	301	0	10	On	0 deg	Cal Lamp	Full	Off	Contamination check
9/3/02	n0302c201.img	302	0	1000	Off	0 deg	Star Field	Full	Off	PMW; geometry; & calibration; smear 0.27 pixels
9/3/02	n0303c201.img	303	0	1000	Off	0 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.17 pixels
9/3/02	n0304c201.img	304	0	1000	Off	10 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.11 pixels
9/3/02	n0305c201.img	305	0	1000	Off	20 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.29 pixels
9/3/02	n0306c201.img	306	0	1000	Off	30 deg	Star Field	Full	Off	PMW; geometry; & calibration; smear 0.57 pixels
9/3/02	n0307c201.img	307	0	5000	Off	30 deg	Star Field	Full	Off	PMW; geometry; & calibration; smear 1.05 pixels
9/3/02	n0308c201.img	308	0	1000	Off	30 deg	Star Field	Full	On	PMW; geometry; & calibration; smear 0.30 pixels
9/3/02	n0309c201.img	309	0	1000	Off	30 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.29 pixels
9/3/02	n0310c201.img	310	0	1000	Off	40 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.27 pixels
9/3/02	n0311c201.img	311	0	1000	Off	50 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.41 pixels
9/3/02	n0312c201.img	312	0	1000	Off	60 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.13 pixels
9/3/02	n0313c201.img	313	0	1000	Off	70 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.32 pixels
9/3/02	n0314c201.img	314	0	1000	Off	80 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.28 pixels
9/3/02	n0315c201.img	315	0	1000	Off	90 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.14 pixels
9/3/02	n0316c201.img	316	0	1000	Off	100 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.39 pixels
9/3/02	n0317c201.img	317	0	1000	Off	110 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.36 pixels
9/3/02	n0318c201.img	318	0	1000	Off	120 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.15 pixels
9/3/02	n0319c201.img	319	0	1000	Off	130 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.15 pixels
9/3/02	n0320c201.img	320	0	1000	Off	140 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.31 pixels
9/3/02	n0321c201.img	321	0	1000	Off	150 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.76 pixels
9/3/02	n0322c201.img	322	0	1000	Off	160 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.60 pixels
9/3/02	n0323c201.img	323	0	1000	Off	170 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.64 pixels
9/3/02	n0324c201.img	324	0	1000	Off	180 deg	Star Field	Windows 6x21	Off	PMW; geometry; & calibration; smear 0.52 pixels
10/9/02	n0325c201.img	325	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.93 pixels
10/9/02	n0326c201.img	326	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; failed; smear 0.44 pixels
10/9/02	n0327c201.img	327	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; failed; smear 0.44 pixels
10/9/02	n0328c201.img	328	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; failed; smear 0.22 pixels
10/9/02	n0329c201.img	329	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; failed; smear 0.53 pixels
10/9/02	n0330c201.img	330	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; failed; smear 0.60 pixels
10/9/02	n0331c201.img	331	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.64 pixels
10/9/02	n0332c201.img	332	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.51 pixels
10/9/02	n0333c201.img	333	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.27 pixels
10/9/02	n0334c201.img	334	0	1000	Off	47.8 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.57 pixels
10/9/02	n0335c201.img	335	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.87 pixels
10/9/02	n0336c201.img	336	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.90 pixels
10/9/02	n0337c201.img	337	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.85 pixels
10/9/02	n0338c201.img	338	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.95 pixels
10/9/02	n0339c201.img	339	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.58 pixels
10/9/02	n0340c201.img	340	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.80 pixels
10/9/02	n0341c201.img	341	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.81 pixels
10/9/02	n0342c201.img	342	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 1.06 pixels
10/9/02	n0343c201.img	343	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.78 pixels
10/9/02	n0344c201.img	344	0	1000	Off	64.0 deg	Star Field	Windows 4x41	Off	PMW; locked up; smear 0.33 pixels
10/9/02	n0345c201.img	345	0	3000	Off	15.0 deg	Star Field	Full	Off	Split image study; smear 0.56 pixels
10/31/02	n0346ae01.img	346	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-38h; smear 4.36 pixels
10/31/02	n0347ae01.img	347	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-38h; smear 2.40 pixels
10/31/02	n0348ae01.img	348	0	2000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-38h; smear 5.40 pixels
10/31/02	n0349ae01.img	349	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-38h; smear 2.96 pixels
10/31/02	n0350ae01.img	350	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-38h; smear 5.88 pixels
10/31/02	n0351ae01.img	351	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-32h; smear 8.22 pixels
10/31/02	n0352ae01.img	352	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-32h; smear 7.79 pixels

10/31/02	n0353ae01.img	353	0	2000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-32h; smear 13.45 pixels
10/31/02	n0354ae01.img	354	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-32h; smear 23.32 pixels
10/31/02	n0355ae01.img	355	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-32h; smear 16.98 pixels
10/31/02	n0356ae01.img	356	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-26h; smear 3.79 pixels
10/31/02	n0357ae01.img	357	0	1000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-26h; smear 1.00 pixels
10/31/02	n0358ae01.img	358	0	2000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-26h; smear 1.05 pixels
10/31/02	n0359ae01.img	359	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-26h; smear 3.35 pixels
10/31/02	n0360ae01.img	360	0	5000	Off	20.0 deg	Annefrank	Windows 3x151	Off	AF Approach E-26h; smear 2.11 pixels
11/1/02	n0361ae01.img	361	0	5000	Off	20.0 deg	Annefrank	Windows 3x181	Off	AF Approach E-18h; smear 33.46 pixels
11/1/02	n0362ae01.img	362	0	5000	Off	20.0 deg	Annefrank	Windows 3x181	Off	AF Approach E-18h; smear 25.67 pixels
11/1/02	n0363ae01.img	363	0	5000	Off	20.0 deg	Annefrank	Windows 3x181	Off	AF Approach E-18h; smear 17.98 pixels
11/1/02	n0364ae01.img	364	0	5000	Off	20.0 deg	Annefrank	Windows 3x181	Off	AF Approach E-18h; smear 25.32 pixels
11/1/02	n0365ae01.img	365	0	5000	Off	20.0 deg	Annefrank	Windows 3x181	Off	AF Approach E-18h; smear 17.18 pixels
11/1/02	n0366ae01.img	366	0	5000	Off	20.0 deg	Annefrank	Window 3x3	Off	AF Approach E-12h; smear 47.54 pixels
11/1/02	n0367ae01.img	367	0	5000	Off	20.0 deg	Annefrank	Window 3x3	Off	AF Approach E-12h; smear 33.23 pixels
11/1/02	n0368ae01.img	368	0	5000	Off	20.0 deg	Annefrank	Window 701x701	Off	AF Approach E-12h; smear 21.71 pixels
11/1/02	n0369ae01.img	369	0	5000	Off	20.0 deg	Annefrank	Window 3x3	Off	AF Approach E-12h; smear 13.41 pixels
11/1/02	n0370ae01.img	370	0	5000	Off	20.0 deg	Annefrank	Window 3x3	Off	AF Approach E-12h; smear 16.21 pixels
11/1/02	n0371ae01.img	371	0	65	Off	17.7 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; ~33% on periscope
11/1/02	n0372ae01.img	372	0	65	Off	18.0 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; ~24% on periscope; smear
11/1/02	n0373ae01.img	373	0	65	Off	18.9 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; perhaps 2-3% on periscope
11/1/02	n0374ae01.img	374	0	65	Off	20.6 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation
11/1/02	n0377ae01.img	377	0	65	Off	21.4 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; severe smear
11/1/02	n0380ae01.img	380	0	65	Off	22.5 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; nucleus near edge
11/1/02	n0383ae01.img	383	0	65	Off	23.8 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation
11/1/02	n0386ae01.img	386	0	65	Off	25.0 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; severe smear
11/1/02	n0389ae01.img	389	0	65	Off	26.5 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; severe smear
11/1/02	n0392ae01.img	392	0	65	Off	28.2 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation
11/1/02	n0395ae01.img	395	0	65	Off	30.0 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation
11/1/02	n0398ae01.img	398	0	65	Off	32.0 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; image near edge
11/1/02	n0401ae01.img	401	0	65	Off	34.2 deg	Annefrank	Full	On	AF - Nucleus Tracking Initiation; image near edge
11/1/02	n0404ae01.img	404	0	65	Off	36.9 deg	Annefrank	Full	On	image blank except 1 cosmic ray hit; software filter working
11/1/02	n0407ae01.img	407	0	65	Off	37.2 deg	Annefrank	Full	On	AF - Tracking Locked; severe smear
11/1/02	n0410ae01.img	410	0	25	Off	40.6 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0413ae01.img	413	0	25	Off	44.4 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0416ae01.img	416	0	25	Off	48.6 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0417ae01.img	417	0	25	Off	53.6 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0420ae01.img	420	0	25	Off	59.3 deg	Annefrank	Full	On	AF - Tracking Locked; some saturation
11/1/02	n0423ae01.img	423	0	25	Off	65.7 deg	Annefrank	Full	On	AF - Tracking Locked; some saturation
11/1/02	n0426ae01.img	426	0	25	Off	72.7 deg	Annefrank	Full	On	AF - Tracking Locked; considerable saturation
11/1/02	n0427ae01.img	427	0	25	Off	73.1 deg	Annefrank	Full	On	AF - Tracking Locked; 80% saturated
11/1/02	n0428ae01.img	428	0	25	Off	74.1 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0429ae01.img	429	0	25	Off	74.9 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0430ae01.img	430	0	25	Off	75.7 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0431ae01.img	431	0	25	Off	74.1 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0432ae01.img	432	0	25	Off	76.4 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0433ae01.img	433	0	25	Off	77.9 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0434ae01.img	434	0	25	Off	78.6 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0435ae01.img	435	0	25	Off	79.5 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0436ae01.img	436	0	25	Off	80.3 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0437ae01.img	437	0	25	Off	80.9 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0438ae01.img	438	0	25	Off	81.8 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0439ae01.img	439	0	25	Off	82.7 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0440ae01.img	440	0	25	Off	83.5 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0441ae01.img	441	0	25	Off	84.0 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0442ae01.img	442	0	25	Off	84.9 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0443ae01.img	443	0	25	Off	85.7 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0444ae01.img	444	0	25	Off	86.5 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0445ae01.img	445	0	25	Off	87.4 deg	Annefrank	Full	On	AF - Tracking Locked; 80%+ saturated
11/1/02	n0446ae01.img	446	0	5 (3.5)	Off	88.2 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0447ae01.img	447	0	5	Off	89.0 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0448ae01.img	448	0	5 (3.5)	Off	89.8 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0449ae01.img	449	0	5	Off	90.5 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0450ae01.img	450	0	5 (3.5)	Off	91.4 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0451ae01.img	451	0	5	Off	92.1 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0452ae01.img	452	0	5 (3.5)	Off	93.0 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0453ae01.img	453	0	5	Off	93.7 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0454ae01.img	454	0	5 (3.5)	Off	94.6 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0455ae01.img	455	0	5	Off	95.5 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0456ae01.img	456	0	5 (3.5)	Off	96.2 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0457ae01.img	457	0	5	Off	97.0 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0458ae01.img	458	0	5 (3.5)	Off	97.9 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0459ae01.img	459	0	5	Off	98.7 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0460ae01.img	460	0	5 (3.5)	Off	99.5 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0461ae01.img	461	0	5	Off	100.3 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0462ae01.img	462	0	5 (3.5)	Off	101.0 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0463ae01.img	463	0	5	Off	101.8 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0464ae01.img	464	0	5 (3.5)	Off	102.5 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0465ae01.img	465	0	5	Off	103.3 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0466ae01.img	466	0	5 (3.5)	Off	104.0 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0467ae01.img	467	0	5	Off	104.7 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0468ae01.img	468	0	5 (3.5)	Off	105.5 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0469ae01.img	469	0	5	Off	106.5 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0470ae01.img	470	0	5 (3.5)	Off	107.0 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0471ae01.img	471	0	5	Off	107.7 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0472ae01.img	472	0	5 (3.5)	Off	108.5 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0473ae01.img	473	0	5	Off	109.3 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0474ae01.img	474	0	5 (3.5)	Off	110.0 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)
11/1/02	n0475ae01.img	475	0	5	Off	110.6 deg	Annefrank	Full	On	AF - Tracking Locked
11/1/02	n0476ae01.img	476	0	5 (3.5)	Off	111.3 deg	Annefrank	Full	On	AF - Tracking Locked (alternate images 3.5 ms exposure)

1/28/03	n0477c201.img	477	0	1000	Off	-0.01 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.91 pixels
1/28/03	n0478c201.img	478	0	1000	Off	0.89 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.31 pixels
1/28/03	n0479c201.img	479	0	1000	Off	1.92 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.62 pixels
1/28/03	n0480c201.img	480	0	1000	Off	2.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.33 pixels
1/28/03	n0481c201.img	481	0	1000	Off	3.93 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.81 pixels
1/28/03	n0482c201.img	482	0	1000	Off	4.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.79 pixels
1/28/03	n0483c201.img	483	0	1000	Off	5.93 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.58 pixels
1/28/03	n0484c201.img	484	0	1000	Off	6.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.58 pixels
1/28/03	n0485c201.img	485	0	1000	Off	7.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.26 pixels
1/28/03	n0486c201.img	486	0	1000	Off	8.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.37 pixels
1/28/03	n0487c201.img	487	0	1000	Off	9.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.48 pixels
1/28/03	n0488c201.img	488	0	1000	Off	10.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.47 pixels
1/28/03	n0489c201.img	489	0	1000	Off	10.92 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.295 pixels
1/28/03	n0490c201.img	490	0	1000	Off	11.89 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.63 pixels
1/28/03	n0491c201.img	491	0	1000	Off	11.89 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.19 pixels
1/28/03	n0492c201.img	492	0	1000	Off	12.92 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.41 pixels
1/28/03	n0493c201.img	493	0	1000	Off	12.92 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.19 pixels
1/28/03	n0494c201.img	494	0	1000	Off	13.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.355 pixels
1/28/03	n0495c201.img	495	0	1000	Off	13.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.74 pixels
1/28/03	n0496c201.img	496	0	1000	Off	14.93 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.24 pixels
1/28/03	n0497c201.img	497	0	1000	Off	14.93 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.095 pixels
1/28/03	n0498c201.img	498	0	1000	Off	15.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.35 pixels
1/28/03	n0499c201.img	499	0	1000	Off	15.90 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.375 pixels
1/28/03	n0500c201.img	500	0	1000	Off	16.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.91 pixels
1/28/03	n0501c201.img	501	0	1000	Off	16.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.39 pixels
1/28/03	n0502c201.img	502	0	1000	Off	17.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.60 pixels
1/28/03	n0503c201.img	503	0	1000	Off	17.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.58 pixels
1/28/03	n0504c201.img	504	0	1000	Off	18.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.47 pixels
1/28/03	n0505c201.img	505	0	1000	Off	18.94 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.99 pixels
1/28/03	n0506c201.img	506	0	1000	Off	19.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 0.35 pixels
1/28/03	n0507c201.img	507	0	1000	Off	19.91 deg	M45(Pleiades)	Full	On	Geometric Calibration; smear 1.44 pixels
1/28/03	n0508c201.img	508	0	1000	Off	19.91 deg	M45(Pleiades)	W 151x151	Off	Photometric Calibration; smear 2.62 pixels
1/28/03	n0509c201.img	509	0	1000	On	19.91 deg	Cal Lamp	W 151x151	Off	Photometric Calibration
5/21/03	n0510c201.img	510	0	1250	Off	12.00 deg		Full	Off	Periscope Calibration; smear 0.85 pixels
5/21/03	n0511c201.img	511	0	20	On	12.00 deg	Cal Lamp	Full	Off	Contamination check; camera looks good
5/21/03	n0512c201.img	512	0	1000	Off	25.02 deg	105 Agr	Full	Off	Camera check; smear 0.99 pixels
5/21/03	n0513c201.img	513	0	3000	Off	25.02 deg	105 Agr	Full	Off	Camera check; smear 0.62 pixels
10/8/03	n0514we01.img	514	0	20	On	0 deg	Cal Lamp	Full	Off	Severe Contamination; smear 0.01 pixels
10/8/03	n0515we01.img	515	0	1000	Off	20.03 deg	?	Full	Off	Severe Contamination; smear 0.27 pixels
10/8/03	n0516we01.img	516	0	5000	Off	20.03 deg	?	Full	Off	Severe Contamination; smear 0.99 pixels
10/8/03	n0517we01.img	517	0	5000	Off	20.94 deg	?	Full	Off	Severe Contamination; smear 4.04 pixels
10/11/03	N0518we01.img	518	0	20	On	0 deg	Cal Lamp	Full	Off	Still ~2.5 mag Contamination; smear 0.01 pixels
10/11/03	N0519we01.img	519	0	1000	Off	20.03 deg		Full	Off	Still ~2.5 mag Contamination; smear 0.63 pixels
10/11/03	N0520we01.img	520	0	5000	Off	20.03 deg		Full	Off	Still ~2.5 mag Contamination; smear 2.79 pixels
10/11/03	N0521we01.img	521	0	5000	Off	20.94 deg		Full	Off	Still ~2.5 mag Contamination; smear 2.58 pixels
10/29/03	N0522we01.img	522	0	1000	Off	20.03 deg	EM Leo	Full	Off	~0.5 mag Contamination; smear 0.19 pixels
10/29/03	N0523we01.img	523	0	5000	Off	20.03 deg	EM Leo	Full	Off	~0.5 mag Contamination; smear 1.28 pixels
10/29/03	N0524we01.img	524	0	5000	Off	20.94 deg	EM Leo	Full	Off	~0.5 mag Contamination; smear 0.58 pixels
10/29/03	N0525we01.img	525	0	20	On	20.03 deg	Cal Lamp	Full	Off	Cal Lamp not present??!
11/8/03	n0526we01.img	526	0	5000	Off	20.03 deg	23 LMi	Full	On	Shutter Check - Timer; smear 2.40 pixels
11/8/03	n0527we01.img	527	0	5000	Off	20.03 deg	23 LMi	Full	On	Shutter Check - Bulb; smear ? pixels
11/14/03	n0528we01.img	528	0	3000	Off	31.27 deg		Full	Off	Encounter Field; smear 1.11 pixels
11/14/03	n0529we01.img	529	0	3000	Off	31.27 deg		Full	Off	Encounter Field; smear 2.13 pixels
11/14/03	n0530we01.img	530	0	3000	Off	31.27 deg		Full	Off	Encounter Field; smear 2.23 pixels
11/17/03	n0531we01.img	531	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Pattern not matched; smear 0.72 pixels
11/17/03	n0532we01.img	532								No image sent down (number skipped?)
11/17/03	n0533we01.img	533	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images on edge; smear 1.86 pixels
11/17/03	n0534we01.img	534	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images on edge; smear 0.43 pixels
11/17/03	n0535we01.img	535	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.10 pixels
11/17/03	n0536we01.img	536	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 2.07 pixels
11/17/03	n0537we01.img	537	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.90 pixels
11/17/03	n0538we01.img	538	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.57 pixels
11/17/03	n0539we01.img	539	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.33 pixels
11/17/03	n0540we01.img	540	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.95 pixels
11/17/03	n0541we01.img	541	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 1.57 pixels
11/17/03	n0542we01.img	542	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 1.16 pixels
11/17/03	n0543we01.img	543	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.73 pixels
11/17/03	n0544we01.img	544	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.78 pixels
11/17/03	n0545we01.img	545	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 0.37 pixels
11/17/03	n0546we01.img	546	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.00 pixels
11/17/03	n0547we01.img	547	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.56 pixels
11/17/03	n0548we01.img	548	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.70 pixels
11/17/03	n0549we01.img	549	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.03 pixels
11/17/03	n0550we01.img	550	0	5000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.08 pixels
11/17/03	n0551we01.img	551	0	15000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 2.41 pixels
11/17/03	n0552we01.img	552	0	15000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 1.73 pixels
11/17/03	n0553we01.img	553	0	15000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images slightly off center; smear 1.90 pixels
11/17/03	n0554we01.img	554	0	15000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images near edge; smear 3.21 pixels
11/17/03	n0555we01.img	555	0	15000	Off	28.28 deg	W2 Search	Windows 4x51	Off	Images centered; smear 4.36 pixels
11/20/03	n0556we01.img	556	0	5000	Off	26.21 deg	OpNav Work	Full Frame	Off	Bad Image; missing packets
11/20/03	n0557we01.img	557	0	5000	Off	26.21 deg	OpNav Work	Full Frame	Off	smear 2.01 pixels
11/20/03	n0558we01.img	558	0	15000	Off	26.21 deg	OpNav Work	Full Frame	Off	smear 6.35 pixels
11/24/03	n0559we01.img	559	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	centered; smear 4.78 pixels
11/24/03	n0560we01.img	560	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	centered; smear 3.91 pixels
11/24/03	n0561we01.img	561	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	centered; smear 1.39 pixels
11/24/03	n0562we01.img	562	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	centered; smear 2.95 pixels
11/24/03	n0563we01.img	563	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	No Lock
11/24/03	n0564we01.img	564	0	5000	Off	23.70 deg	OpNav Work	Win. 3x51;1x71	Off	centered; smear 3.07 pixels

12/18/03	n0860we01	860	0	0	Off	23.98 deg	Photo. Calib.	Full frame	Off	Bias Frame
12/18/03	n0861we01	861	0	1000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 0.53 pixels
12/18/03	n0862we01	862	0	5000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 4.10 pixels
12/18/03	n0863we01	863	0	1000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 0.72 pixels
12/18/03	n0864we01	864	0	5000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 2.62 pixels
12/18/03	n0865we01	865	0	1000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 0.42 pixels
12/18/03	n0866we01	866	0	5000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 2.69 pixels
12/18/03	n0867we01	867	0	1000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 0.29 pixels
12/18/03	n0868we01	868	0	5000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 3.12 pixels
12/18/03	n0869we01	869	0	15000	Off	23.98 deg	Photo. Calib.	Full frame	Off	smear 5.92 pixels
12/18/03	n0870we01	870	0	15000	Off	0.20 deg	Photo. Calib.	Full frame	Off	smear 4.253 pixels
12/18/03	n0871we01	871	0	3000	Off	0.20 deg	Photo. Calib.	Full frame	Off	smear 1.83 pixels
12/18/03	n0872we01	872	0	15000	Off	0.20 deg	Photo. Calib.	Full frame	Off	smear 11.78 pixels
12/18/03	n0873we01	873	0	0	Off	1.93 deg	Photo. Calib.	Full frame	Off	bias frame
12/18/03	n0874we01	874	0	300	Off	1.93 deg	Periscope ck.	Full frame	On	smear 0.28 pixels
12/18/03	n0875we01	875	0	300	Off	6.95 deg	Periscope ck.	Full frame	On	Packets missing
12/18/03	n0876we01	876	0	300	Off	11.93 deg	Periscope ck.	Full frame	On	Frame incomplete; smear 0.25 pixels
12/19/03	n0877we01	877	0	15000	Off	28.40 deg	Op Nav Work	Win. 3x201	Off	smear 3.34 pixels
12/19/03	n0878we01	878	0	15000	Off	28.40 deg	Op Nav Work	Win. 3x201	Off	smear 2.52 pixels
12/19/03	n0879we01	879	0	15000	Off	28.40 deg	Op Nav Work	Win. 3x201	Off	smear 5.47 pixels
12/20/03	n0880we01	880	0	15000	Off	27.88 deg	Op Nav Work	Win. 3x201	Off	smear 10.49 pixels
12/20/03	n0881we01	881	0	15000	Off	27.88 deg	Op Nav Work	Win. 3x201	Off	smear 10.93 pixels
12/20/03	n0882we01	882	0	15000	Off	27.88 deg	Op Nav Work	Win. 3x201	Off	smear 7.98 pixels
12/21/03	n0883we01	883	0	15000	Off	27.25 deg	Op Nav Work	Win. 3x201	Off	smear 12.32 pixels
12/21/03	n0884we01	884	0	15000	Off	27.25 deg	Op Nav Work	Win. 3x201	Off	smear 5.72 pixels
12/21/03	n0885we01	885	0	15000	Off	27.25 deg	Op Nav Work	Win. 3x201	Off	smear 8.24 pixels
12/22/03	n0886we01	886	0	15000	Off	26.96 deg	Op Nav Work	Win. 3x201	Off	smear 6.97 pixels
12/22/03	n0887we01	887	0	15000	Off	26.96 deg	Op Nav Work	Win. 3x201	Off	smear 3.85 pixels
12/22/03	n0888we01	888	0	15000	Off	26.96 deg	Op Nav Work	Win. 3x201	Off	smear 6.78 pixels
	no image #889									
12/24/03	n0890we01	890	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 7.95 pixels
12/24/03	n0891we01	891	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 7.72 pixels
12/24/03	n0892we01	892	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 12.81 pixels
12/24/03	n0893we01	893	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 12.58 pixels
12/24/03	n0894we01	894	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 12.31 pixels
12/24/03	n0895we01	895	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 2.90 pixels
12/24/03	n0896we01	896	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 10.71 pixels
12/24/03	n0897we01	897	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 5.50 pixels
12/24/03	n0898we01	898	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 9.91 pixels
12/24/03	n0899we01	899	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 11.99 pixels
12/24/03	n0900we01	900	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 11.58 pixels
12/24/03	n0901we01	901	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 6.17 pixels
12/24/03	n0902we01	902	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 15.42 pixels
12/24/03	n0903we01	903	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 13.07 pixels
12/24/03	n0904we01	904	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 17.10 pixels
12/24/03	n0905we01	905	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 12.15 pixels
12/24/03	n0906we01	906	0	20000	Off	24.67 deg	Op Nav Work	Win.3x301	Off	smear 10.06 pixels
	no image #907									
12/25/03	n0908we01	908	0	20000	Off	24.10 deg	Op Nav Work	Win.1x301;2x0	Off	Image incomplete and with two diff. dn levels
12/25/03	n0909we01	909	0	20000	Off	24.10 deg	Op Nav Work	Win.1x301;2x0	Off	Image incomplete and with two diff. dn levels
12/25/03	n0910we01	910	0	20000	Off	24.10 deg	Op Nav Work	Win.1x301;2x0	Off	Image incomplete and with two diff. dn levels
12/25/03	n0911we01	911	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 7.36 pixels
12/25/03	n0912we01	912	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 7.89 pixels
12/25/03	n0913we01	913	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 7.72 pixels
12/25/03	n0914we01	914	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 8.76 pixels
12/25/03	n0915we01	915	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 16.71 pixels
12/25/03	n0916we01	916	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 5.20 pixels
12/25/03	n0917we01	917	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 5.99 pixels
12/25/03	n0918we01	918	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 8.26 pixels
12/25/03	n0919we01	919	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 11.04 pixels
12/25/03	n0920we01	920	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 9.79 pixels
12/25/03	n0921we01	921	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 3.09 pixels
12/25/03	n0922we01	922	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 5.23 pixels
12/25/03	n0923we01	923	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 3.69 pixels
12/25/03	n0924we01	924	0	20000	Off	24.10 deg	Op Nav Work	Win. 3x301	Off	Good image; smear 0.65 pixels
	no image #925									
12/26/2003 I	n0926we01	926	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	Some packets missing; smear 3.77 pixels
	no images 927-930									
12/26/2003 I	n0931we01	931	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 7.33 pixels
12/26/2003 I	n0932we01	932	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 7.96 pixels
12/26/2003 I	n0933we01	933	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	Some packets missing; smear 8.46 pixels
12/26/2003 I	n0934we01	934	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 6.31 pixels
12/26/2003 I	n0935we01	935	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 9.21 pixels
12/26/2003 I	n0936we01	936	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 10.34 pixels
12/26/2003 I	n0937we01	937	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 2.52 pixels
12/26/2003 I	n0938we01	938	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 11.23 pixels
12/26/2003 I	n0939we01	939	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 0.72 pixels
12/26/2003 I	n0940we01	940	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 7.68 pixels
12/26/2003 I	n0941we01	941	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 2.11 pixels
12/26/2003 I	n0942we01	942	0	20000	Off	23.57 deg	Op Nav Work	Win. 3x301	Off	smear 5.46 pixels
12/26/2003 II	n0943we01	943	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 9.75 pixels
12/26/2003 II	n0944we01	944	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 5.61 pixels
12/26/2003 II	n0945we01	945	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.95 pixels
12/26/2003 II	n0946we01	946	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 10.70 pixels
12/26/2003 II	n0947we01	947	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 12.09 pixels
12/26/2003 II	n0948we01	948	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 2.22 pixels
12/26/2003 II	n0949we01	949	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.75 pixels
12/26/2003 II	n0950we01	950	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.46 pixels
12/26/2003 II	n0951we01	951	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 8.87 pixels
12/26/2003 II	n0952we01	952	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 7.40 pixels
12/26/2003 II	n0953we01	953	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 2.40 pixels
12/26/2003 II	n0954we01	954	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.25 pixels

12/26/2003 II	n0955we01	955	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 10.26 pixels
12/26/2003 II	n0956we01	956	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 9.71 pixels
12/26/2003 II	n0957we01	957	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 17.70 pixels
12/26/2003 II	n0958we01	958	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 14.82 pixels
12/26/2003 II	n0959we01	959	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.58 pixels
12/26/2003 II	n0960we01	960	0	20000	Off	23.30 deg	Op Nav Work	Win. 3x301	Off	smear 4.05 pixels
	no images 961 or 962									
12/28/03	n0963we01	963	0	20000	Off	22.49 deg	Op Nav Work	Win. 1 x 301	Off	Single image with different exposures in different rows
12/28/03	n09634e01	964	0	20000	Off	22.49 deg	Op Nav Work	Win. 1 x 301	Off	Single partial image
12/28/03	n0965we01	965	0	20000	Off	22.49 deg	Op Nav Work	Win. 1 x 301	Off	Single partial image
12/28/03	n0966we01	966	0	20000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 1.17 pixels
12/28/03	n0967we01	967	0	20000	Off	22.49 deg	Op Nav Work	Win. 2 x 301	Off	Two images; one with rows of different exposures
12/28/03	n0968we01	968	0	20000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.12 pixels
12/28/03	n0969we01	969	0	20000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.41 pixels
12/28/03	n0970we01	970	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 1.98 pixels
12/28/03	n0971we01	971	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.62 pixels
12/28/03	n0972we01	972	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 6.16 pixels
12/28/03	n0973we01	973	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.97 pixels
12/28/03	n0974we01	974	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.25 pixels
12/28/03	n0975we01	975	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.04 pixels
12/28/03	n0976we01	976	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.10 pixels
12/28/03	n0977we01	977	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.25 pixels
12/28/03	n0978we01	978	0	10000	Off	22.49 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.13 pixels
12/29/03	n0979we01	979	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 8.84 pixels
12/29/03	n0980we01	980	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.91 pixels
12/29/03	n0981we01	981	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 9.40 pixels
12/29/03	n0982we01	982	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.83 pixels
12/29/03	n0983we01	983					Image missing packets; including those of Wild 2			smear 5.47 pixels
12/29/03	n0984we01	984					Image missing packets; some of Wild 2			smear 8.84 pixels
12/29/03	n0985we01	985	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.49 pixels
12/29/03	n0986we01	986	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.16 pixels
12/29/03	n0987we01	987	0	20000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 8.03 pixels
12/29/03	n0988we01	988	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.39 pixels
12/29/03	n0989we01	989	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 6.21 pixels
12/29/03	n0990we01	990	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 9.53 pixels
12/29/03	n0991we01	991	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 10.38 pixels
12/29/03	n0992we01	992	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.09 pixels
12/29/03	n0993we01	993	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.83 pixels
12/29/03	n0994we01	994	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 9.27 pixels
12/29/03	n0995we01	995	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.86 pixels
12/29/03	n0996we01	996	0	10000	Off	21.87 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.74 pixels
	n0997we01 through n0999we01 are missing first packet: images were not made									
	Image missing most packets; all of Wild 2									
12/30/2003 I	n1000we01	1000								smear 5.22 pixels
12/30/2003 I	n1001we01	1001	0	20000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 1.91 pixels
12/30/2003 I	n1002we01	1002	0	20000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 6.59 pixels
12/30/2003 I	n1003we01	1003	0	20000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.77 pixels
12/30/2003 I	n1004we01	1004	0	20000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.63 pixels
12/30/2003 I	n1005we01	1005	0	20000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 13.53 pixels
12/30/2003 I	n1006we01	1006	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.00 pixels
12/30/2003 I	n1007we01	1007	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.19 pixels
12/30/2003 I	n1008we01	1008	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.04 pixels
12/30/2003 I	n1009we01	1009	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.76 pixels
12/30/2003 I	n1010we01	1010	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 3.51 pixels
12/30/2003 I	n1011we01	1011	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 1.56 pixels
12/30/2003 I	n1012we01	1012	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.45 pixels
12/30/2003 I	n1013we01	1013	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 10.44 pixels
12/30/2003 I	n1014we01	1014	0	10000	Off	21.41 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.58 pixels
	Images 1015 through 1021 are missing									
12/30/2003 II	n1022we01	1022	0	20000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 1.50 pixels
12/30/2003 II	n1023we01	1023	0	20000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 8.55 pixels
12/30/2003 II	n1024we01	1024	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.76 pixels
12/30/2003 II	n1025we01	1025	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.32 pixels
12/30/2003 II	n1026we01	1026	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 0.76 pixels
12/30/2003 II	n1027we01	1027	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.13 pixels
12/30/2003 II	n1028we01	1028	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 0.79 pixels
12/30/2003 II	n1029we01	1029	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.49 pixels
12/30/2003 II	n1030we01	1030	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.90 pixels
12/30/2003 II	n1031we01	1031	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 0.23 pixels
12/30/2003 II	n1032we01	1032	0	10000	Off	21.00 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.71 pixels
12/31/2003 I	n1033we01	1033	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.35 pixels
12/31/2003 I	n1034we01	1034	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.10 pixels
12/31/2003 I	n1035we01	1035	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.37 pixels
12/31/2003 I	n1036we01	1036	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 10.78 pixels
12/31/2003 I	n1037we01	1037	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 8.07 pixels
12/31/2003 I	n1038we01	1038	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 13.26 pixels
12/31/2003 I	n1039we01	1039	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 11.81 pixels
12/31/2003 I	n1040we01	1040	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.18 pixels
12/31/2003 I	n1041we01	1041	0	20000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.94 pixels
12/31/2003 I	n1042we01	1042	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.80 pixels
12/31/2003 I	n1043we01	1043	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.63 pixels
12/31/2003 I	n1044we01	1044	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 7.04 pixels
12/31/2003 I	n1045we01	1045	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 4.73 pixels
12/31/2003 I	n1046we01	1046	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 6.69 pixels
12/31/2003 I	n1047we01	1047	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 5.77 pixels
12/31/2003 I	n1048we01	1048	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 0.28 pixels
12/31/2003 I	n1049we01	1049	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 2.19 pixels
12/31/2003 I	n1050we01	1050	0	10000	Off	20.77 deg	Op Nav Work	Win. 3 x 301	Off	smear 8.26 pixels
12/31/2003 II	n1051we01	1051	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.03 pixels
12/31/2003 II	n1052we01	1052	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.96 pixels
12/31/2003 II	n1053we01	1053	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.48 pixels
12/31/2003 II	n1054we01	1054	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.73 pixels
12/31/2003 II	n1055we01	1055	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.23 pixels
12/31/2003 II	n1056we01	1056	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.02 pixels
12/31/2003 II	n1057we01	1057	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.76 pixels

12/31/2003 II	n1058we01	1058	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.47 pixels
1/1/2004 I	n1059we01	1059	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.58 pixels
1/1/2004 I	n1060we01	1060	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 0.76 pixels
1/1/2004 I	n1061we01	1061	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.85 pixels
1/1/2004 I	n1062we01	1062	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.77 pixels
1/1/2004 I	n1063we01	1063	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.91 pixels
1/1/2004 I	n1064we01	1064	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.17 pixels
1/1/2004 I	n1065we01	1065	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.04 pixels
1/1/2004 I	n1066we01	1066	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.65 pixels
1/1/2004 II	n1067we01	1067	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.55 pixels
1/1/2004 II	n1068we01	1068	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.94 pixels
1/1/2004 II	n1069we01	1069	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.31 pixels
1/1/2004 II	n1070we01	1070	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.52 pixels
1/1/2004 II	n1071we01	1071	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.15 pixels
1/1/2004 II	n1072we01	1072	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.17 pixels
1/1/2004 II	n1073we01	1073	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.72 pixels
1/1/2004 II	n1074we01	1074	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.15 pixels
1/1/2004 III	n1075we01	1075	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 0.43 pixels
1/1/2004 III	n1076we01	1076	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.00 pixels
1/1/2004 III	n1077we01	1077	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.93 pixels
1/1/2004 III	n1078we01	1078	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.13 pixels
1/1/2004 III	n1079we01	1079	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.00 pixels
1/1/2004 III	n1080we01	1080	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.14 pixels
1/1/2004 III	n1081we01	1081	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.49 pixels
1/1/2004 III	n1082we01	1082	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.85 pixels
1/1/2004 IV	n1083we01	1083	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.88 pixels
1/1/2004 IV	n1084we01	1084	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 10.19 pixels
1/1/2004 IV	n1085we01	1085	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 7.09 pixels
1/1/2004 IV	n1086we01	1086	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.54 pixels
1/1/2004 IV	n1087we01	1087	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.36 pixels
1/1/2004 IV	n1088we01	1088	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.26 pixels
1/1/2004 IV	n1089we01	1089	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.98 pixels
1/1/2004 IV	n1090we01	1090	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.61 pixels
1/1/2004 V	n1091we01	1091	0	15000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 6.54 pixels
1/1/2004 V	n1092we01	1092	0	15000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.69 pixels
1/1/2004 V	n1093we01	1093	0	15000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 10.25 pixels
1/1/2004 V	n1094we01	1094	0	15000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.93 pixels
1/1/2004 V	n1095we01	1095	0	10000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.21 pixels
1/1/2004 V	n1096we01	1096	0	10000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 0.62 pixels
1/1/2004 V	n1097we01	1097	0	10000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.35 pixels
1/1/2004 V	n1098we01	1098	0	10000	Off	24.51 deg	Op Nav Work	Win. 3 x 291	Off	smear 3.01 pixels
Image 1099 is missing										
1/1/2004 VI	n1100we01	1100	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 290	Off	Wild 2 OK; one window incomplete; smear 2.46 pixels
1/1/2004 VI	n1101we01	1101	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.67 pixels
1/1/2004 VI	n1102we01	1102	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.30 pixels
1/1/2004 VI	n1103we01	1103	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.17 pixels
1/1/2004 VI	n1104we01	1104	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 5.00 pixels
1/1/2004 VI	n1105we01	1105	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 4.74 pixels
1/1/2004 VI	n1106we01	1106	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.33 pixels
No Usable Images 1107-1115										
1/2/04	n1116we01	1116	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.08 pixels
1/2/04	n1117we01	1117	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.79 pixels
1/2/04	n1118we01	1118	0	15000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 2.22 pixels
1/2/04	n1119we01	1119	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.75 pixels
1/2/04	n1120we01	1120	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	smear 1.05 pixels
1/2/04	n1121we01	1121	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	Wild 2 OK; packet missing at bottom; smear 1.05 pixels
1/2/04	n1122we02	1122	0	10000	Off	24.49 deg	Op Nav Work	Win. 3 x 291	Off	not available

Encounter Images

Images used to set up the autotracking program were not saved. There was not enough memory to do so; and they were of relatively poor resolution in any case.

All 1/2/2004							Phase Angle	Range		
Start Time UT										
18:54:28	n2005we01	2005	0	100	Off	1.37 deg	72.0 deg	9935.0 km	On	smear 0.245 pixel
19:02:58	n2022we01	2022	0	100	Off	1.93 deg	71.4 deg	6816.4 km	On	smear 0.268 pixel
19:08:58	n2034we01	2034	0	100	Off	2.70 deg	70.5 deg	4616.0 km	On	smear 0.363 pixel
19:12:28	n2041we01	2041	0	100	Off	3.71 deg	69.3 deg	3333.5 km	On	smear 0.162 pixel
19:13:58	n2044we01	2044	0	100	Off	4.29 deg	68.5 deg	2784.7 km	On	smear 0.390 pixel
19:14:58	n2046we.01	2046	0	100	Off	5.62 deg	67.8 deg	2419.2 km	On	smear 0.309 pixel
19:15:58	n2048we.01	2048	0	100	Off	6.54 deg	66.8 deg	2054.2 km	On	smear 0.206 pixel; minor image doubling*
19:16:48	n2050we.01	2050	0	100	Off	7.75 deg	65.6 deg	1750.8 km	On	smear 0.320 pixel; some image doubling*
19:17:58	n2052we.01	2052	0	100	Off	10.13 deg	63.1 deg	1327.7 km	On	smear 0.413 pixel; some image doubling*
19:18:08	n2053we.01	2053	0	10	Off	10.69 deg	62.7 deg	1267.5 km	On	smear 0.035 pixel; some image doubling*
19:18:18	n2054we.01	2054	0	100	Off	11.22 deg	62.1 deg	1207.5 km	On	smear 0.352 pixels; severe image doubling*
19:18:28	n2055we.01	2055	0	10	Off	11.92 deg	61.5 deg	1147.6 km	On	smear 0.037 pixels; severe image doubling*
19:18:38	n2056we.01	2056	0	100	Off	12.59 deg	60.9 deg	1087.8 km	On	smear 0.324 pixels; severe image doubling*
19:18:48	n2057we.01	2057	0	10	Off	13.36 deg	60.1 deg	1028.2 km	On	smear 0.035 pixels; severe image doubling*
19:18:58	n2058we.01	2058	0	100	Off	14.17 deg	59.3 deg	968.8 km	On	smear 0.124 pixel; some image doubling*
19:19:08	n2059we.01	2059	0	10	Off	15.09 deg	58.3 deg	909.5 km	On	smear 0.033 pixel; some image doubling*
19:19:18	n2060we.01	2060	0	100	Off	16.18 deg	57.3 deg	850.6 km	On	smear 0.321 pixel; some image doubling*
19:19:28	n2061we.01	2061	0	10	Off	17.44 deg	56.0 deg	792.1 km	On	smear 0.036 pixel; minor image doubling*
19:19:38	n2062we.01	2062	0	100	Off	18.91 deg	54.6 deg	733.9 km	On	smear 0.291 pixel
19:19:48	n2063we.01	2063	0	10	Off	20.53 deg	52.9 deg	676.3 km	On	smear 0.037 pixel
19:19:58	n2064we.01	2064	0	100	Off	22.66 deg	51.0 deg	619.3 km	On	smear 0.281 pixel
19:20:08	n2065we.01	2065	0	10	Off	25.02 deg	48.6 deg	563.1 km	On	smear 0.025 pixel
19:20:18	n2066we.01	2066	0	100	Off	27.85 deg	45.7 deg	508.4 km	On	smear 0.258 pixel
19:20:28	n2067we.01	2067	0	10	Off	31.58 deg	42.1 deg	455.1 km	On	smear 0.039 pixel
19:20:38	n2068we.01	2068	0	100	Off	36.02 deg	37.6 deg	404.1 km	On	smear 0.439 pixel
19:20:48	n2069we.01	2069	0	10	Off	41.91 deg	31.8 deg	356.3 km	On	smear 0.029 pixel
19:20:58	n2070we.01	2070	0	100	Off	49.41 deg	24.4 deg	313.2 km	On	smear 0.337 pixel; considerable saturation
19:21:08	n2071we.01	2071	0	10	Off	59.01 deg	14.8 deg	276.9 km	On	smear 0.033 pixel

19:21:18	n2072we.01	2072	0	100	Off	70.87 deg	3.1 deg	250.6 km	On	smear 0.520 pixel; saturated with severe bleeding
19:21:28	n2073we.01	2073	0	10	Off	85.07 deg	11.4 deg	237.5 km	On	smear 0.024 pixel
19:21:38	n2074we.01	2074	0	100	Off	99.47 deg	26.1 deg	239.8 km	On	smear 0.305 pixel; considerable saturation
19:21:48	n2075we.01	2075	0	10	Off	112.92 deg	39.7 deg	257.0 km	On	smear 0.029 pixel
19:21:58	n2076we.01	2076	0	100	Off	124.29 deg	51.0 deg	286.5 km	On	smear 0.516 pixel
19:22:08	n2077we.01	2077	0	10	Off	133.13 deg	59.9 deg	325.0 km	On	smear 0.042 pixel
19:22:18	n2078we.01	2078	0	100	Off	140.13 deg	66.8 deg	369.6 km	On	smear 0.295 pixel
19:22:28	n2079we.01	2079	0	10	Off	145.40 deg	72.2 deg	418.5 km	On	smear 0.035 pixel
19:22:38	n2080we.01	2080	0	100	Off	149.72 deg	76.4 deg	470.2 km	On	smear 0.321 pixel
19:22:48	n2081we.01	2081	0	10	Off	153.01 deg	79.8 deg	524.0 km	On	smear 0.034 pixel
19:22:58	n2082we.01	2082	0	100	Off	155.75 deg			On	smear 0.440 pixel
19:23:08	n2083we.01	2083	0	10	Off	158.11 deg	84.8 deg	636.1 km	On	smear 0.042 pixel
19:23:18	n2084we.01	2084	0	100	Off	159.96 deg	86.6 deg	692.7 km	On	smear 0.342 pixel
19:23:28	n2085we.01	2085	0	10	Off	161.65 deg	88.2 deg	750.5 km	On	smear 0.036 pixel
19:23:38	n2086we.01	2086	0	100	Off	162.91 deg	89.6 deg	808.8 km	On	smear 0.410 pixel
19:23:48	n2087we.01	2087	0	10	Off	164.14 deg	90.8 deg	867.5 km	On	smear 0.023 pixel
19:23:58	n2088we.01	2088	0	100	Off	165.18 deg	91.8 deg	926.5 km	On	smear 0.298 pixel
19:24:08	n2089we.01	2089	0	10	Off	166.00 deg	92.7 deg	985.8 km	On	smear 0.054 pixel
19:24:18	n2090we.01	2090	0	100	Off	166.91 deg	93.5 deg	1045.3 km	On	smear 0.245 pixel
19:24:28	n2091we.01	2091	0	10	Off	167.53 deg	94.2 deg	1104.9 km	On	smear 0.034 pixel
19:24:38	n2092we.01	2092	0	100	Off	168.27 deg	94.9 deg	1164.8 km	On	smear 0.313 pixel
19:24:48	n2093we.01	2093	0	10	Off	168.89 deg	95.5 deg	1224.7 km	On	smear 0.030 pixel
19:24:58	n2094we.01	2094	0	100	Off	169.31 deg	96.0 deg	1284.4 km	On	smear 0.290 pixel
19:25:08	n2095we.01	2095	0	10	Off	169.90 deg	96.5 deg	1345.1 km	On	smear 0.031 pixel
19:25:18	n2096we.01	2096	0	100	Off	170.31 deg	96.9 deg	1405.2 km	On	smear 0.418 pixel
19:25:28	n2097we.01	2097	0	10	Off	170.68 deg	97.3 deg	1465.6 km	On	smear 0.041 pixel
19:25:38	n2098we.01	2098	0	100	Off	171.09 deg	97.7 deg	1526.0 km	On	smear 0.324 pixel
19:25:48	n2099we.01	2099	0	10	Off	171.41 deg	98.0 deg	1586.5 km	On	smear 0.036 pixel
19:25:58	n2100we.01	2100	0	100	Off	171.78 deg	98.3 deg	1647.0 km	On	smear 0.407 pixel
19:26:08	n2101we.01	2101	0	10	Off	171.98 deg	98.6 deg	1707.6 km	On	smear 0.037 pixel
19:26:18	n2102we.01	2102	0	100	Off	171.78 deg	98.9 deg	1768.2 km	On	smear 0.394 pixel
19:26:28	n2103we.01	2103	0	10	Off	172.57 deg	99.2 deg	1828.8 km	On	smear 0.057 pixel
19:26:38	n2104we.01	2104	0	35	Off	172.79 deg	99.4 deg	1889.5 km	On	smear 0.407 pixel
19:26:48	n2105we.01	2105	0	10	Off	173.08 deg	99.6 deg	1950.2 km	On	smear 0.073 pixel
19:26:58	n2106we.01	2106	0	35	Off	173.38 deg	99.8 deg	2010.9 km	On	smear 0.089 pixel
19:27:08	n2107we.01	2107	0	10	Off	173.49 deg	100.0 deg	2071.7 km	On	smear 0.029 pixel
19:27:18	n2108we.01	2108	0	35	Off	173.57 deg	100.2 deg	2132.5 km	On	smear 0.171 pixel
19:27:28	n2109we.01	2109	0	10	Off	173.79 deg	100.4 deg	2193.3 km	On	smear 0.016 pixel
19:27:38	n2110we.01	2110	0	35	Off	173.98 deg	100.6 deg	2254.1 km	On	smear 0.037 pixel
19:27:48	n2111we.01	2111	0	10	Off	173.98 deg	100.7 deg	2315.0 km	On	smear 0.011 pixel
19:27:58	n2112we.01	2112	0	35	Off	174.19 deg	100.9 deg	2375.8 km	On	smear 0.032 pixel
19:28:48	n2113we.01	2113	0	100	Off	174.96 deg	101.5 deg	2679.7 km	On	smear 0.415 pixel
19:29:58	n2114we.01	2114	0	100	Off	175.60 deg	102.2 deg	3106.5 km	On	smear 0.177 pixel
19:30:58	n2115we.01	2115	0	100	Off	176.05 deg	102.7 deg	3472.6 km	On	smear 0.044 pixel

*All images taken with mirror angles between about six degrees and 19 degrees show some doubling; with part of the light coming through the periscope and part around the periscope. All images taken with mirror angles greater than about 170 degrees show some scattered light. Those taken with mirror angles greater than 174 degrees show a great deal of scattered light. Column 221 is a hot column; becoming more pronounced with time.

Calibration Images

A set of images taken on December 18, 2003 were intended to be calibration images. They are full of hot pixels caused by a temperature rise when the camera was left on to prevent any possible cycling failure and perhaps by high solar activity. They are of no use for calibration. The images logged here are being used.

All 1/13/04			Filter	Expos.	Cal Lamp	Mirror	Purpose	Size	Comp.	Image Smear
Start time UT				seconds						
2:24:28	n2116we01	2116	0	0	Off	24.45 deg	bias frame	Full Image	Off	none
	n2117we01	2117	0	1	Off	24.12 deg	calibration	Full Image	Off	0.921 pixels
	n2118we01	2118	0	5	Off	24.04 deg	calibration	Full Image	Off	1.084 pixels
	n2119we01	2119	0	1	Off	23.99 deg	calibration	Full Image	Off	0.336 pixels
	n2120we01	2120	0	5	Off	23.99 deg	calibration	Full Image	Off	1.530 pixels
	n2121we01	2121	0	1	Off	23.99 deg	calibration	Full Image	Off	0.222 pixels
	n2122we01	2122	0	5	Off	23.99 deg	calibration	Full Image	Off	1.260 pixels
	n2123we01	2123	0	1	Off	23.99 deg	calibration	Full Image	Off	0.374 pixels
	n2124we01	2124	0	5	Off	23.99 deg	calibration	Full Image	Off	1.655 pixels
	n2125we01	2125	0	15	Off	23.99 deg	calibration	Full Image	Off	3.995 pixels
	n2126we01	2126	0	15	Off	-0.10 deg	Periscope Check	Full Image	Off	3.860 pixels. Severe sand blasting
	n2127we01	2127	0	3	Off	-0.10 deg	Periscope Check	Full Image	Off	4.503 pixels. Severe sand blasting
	n2128we01	2128	0	15	Off	-0.10 deg	Periscope Check	Full Image	Off	0.760 pixels. Severe sand blasting
	n2129we01	2129	0	0	Off	-0.10 deg	bias frame	Full Image	Off	none
	n2130we01	2130	0	1	On	-0.03 deg	Cal Lamp Check	Full Image	Off	The Cal Lamp was fully functional. Image Overexposed.