

GOMOS Daily Report 21-JUN-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	24JUN2009 04:36:03
Data source version	GOMOS/5.00
Start time of products	21JUN2009 00:16:44
Stop time of products	21JUN2009 05:58:13
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

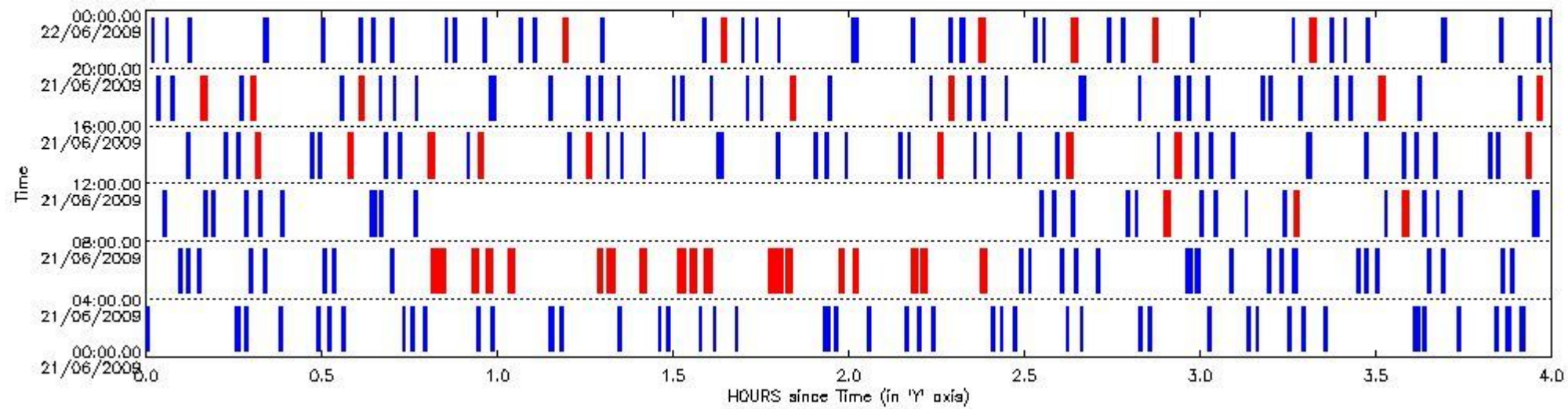
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
21-JUN-2009 04:48:33	11BetCas	74	38206
21-JUN-2009 04:50:02	18AlpCas	68	38206
21-JUN-2009 04:55:34	57Gam1And	73	38206
21-JUN-2009 04:57:58	43BetAnd	53	38206
21-JUN-2009 05:01:42	13AlpAri	50	38206
21-JUN-2009 05:16:55	DSA1068	0	38206
21-JUN-2009 05:18:34	16BetCet	52	38206
21-JUN-2009 05:24:23	AlpPhe	84	38206
21-JUN-2009 05:30:48	BetGru	63	38207
21-JUN-2009 05:32:51	AlpGru	31	38207
21-JUN-2009 05:35:11	GamGru	172	38207
21-JUN-2009 05:46:07	38ZetSgr	103	38207
21-JUN-2009 05:47:29	34SigSgr	57	38207
21-JUN-2009 05:49:10	41PiSgr	155	38207
21-JUN-2009 05:58:11	60BetOph	126	38207

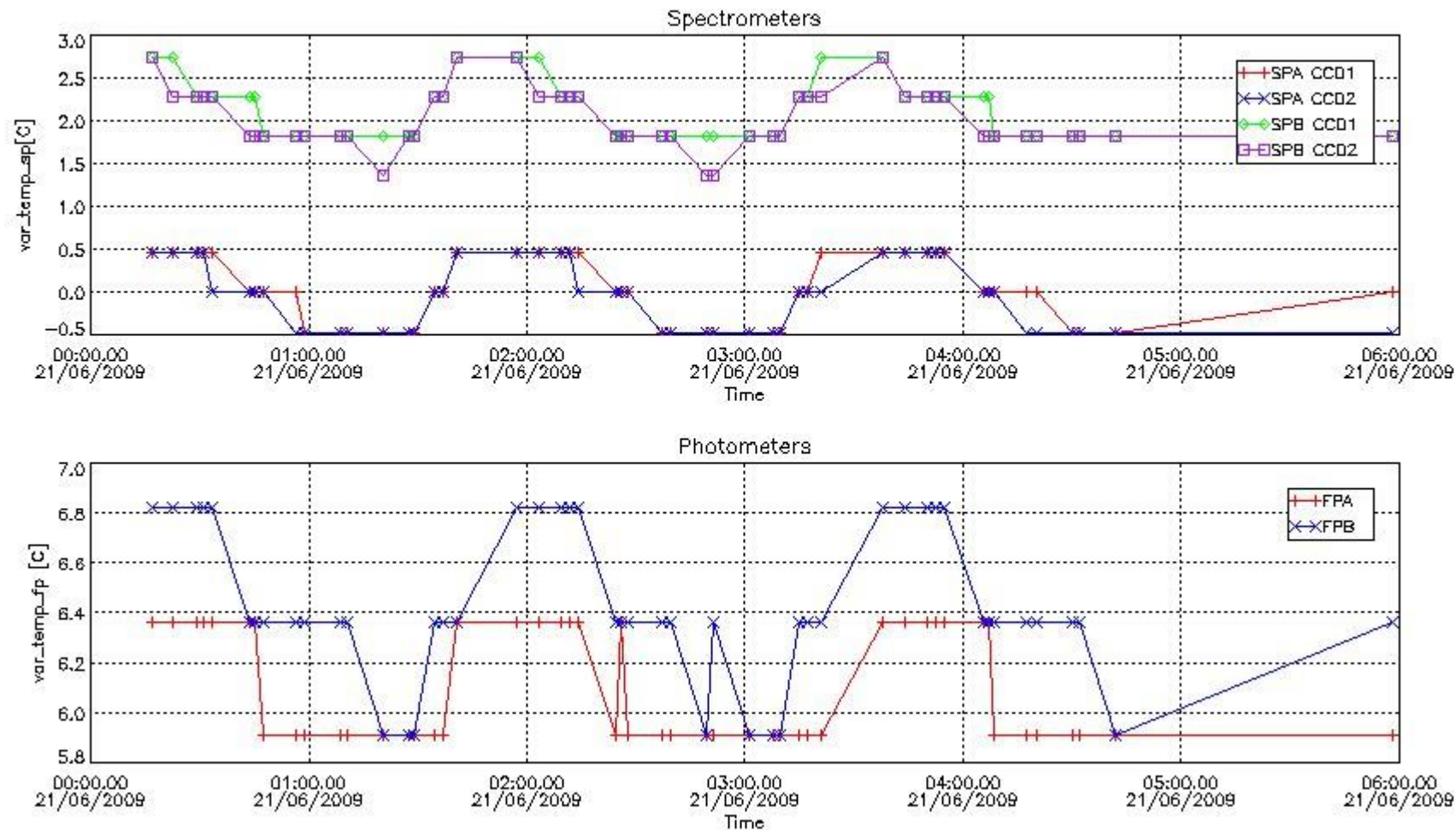
21-JUN-2009 06:00:37	55AlpOph	59	38207
21-JUN-2009 06:10:36	3AlpLyr	5	38207
21-JUN-2009 06:12:20	23BetDra	130	38207
21-JUN-2009 06:22:18	5AlpCep	89	38207
21-JUN-2009 10:53:50	35EtaOph	86	38210
21-JUN-2009 11:16:00	14EtaDra	119	38210
21-JUN-2009 11:34:31	23GamPer	160	38210
21-JUN-2009 12:18:36	AlpPav	45	38211
21-JUN-2009 12:34:26	35EtaOph	86	38211
21-JUN-2009 12:48:11	40ZetHer	133	38211
21-JUN-2009 12:56:36	14EtaDra	119	38211
21-JUN-2009 13:15:07	23GamPer	160	38211
21-JUN-2009 14:15:02	35EtaOph	86	38212
21-JUN-2009 14:37:12	14EtaDra	119	38212
21-JUN-2009 14:55:43	23GamPer	160	38212
21-JUN-2009 15:55:38	35EtaOph	86	38213
21-JUN-2009 16:09:23	40ZetHer	133	38213
21-JUN-2009 16:17:48	14EtaDra	119	38213
21-JUN-2009 16:36:19	23GamPer	160	38213
21-JUN-2009 17:49:59	40ZetHer	133	38214
21-JUN-2009 18:16:55	23GamPer	160	38214
21-JUN-2009 19:30:34	40ZetHer	133	38215
21-JUN-2009 19:57:31	23GamPer	160	38215
21-JUN-2009 21:11:10	40ZetHer	133	38216
21-JUN-2009 21:38:07	23GamPer	160	38216
21-JUN-2009 22:22:15	AlpPav	45	38217
21-JUN-2009 22:38:03	35EtaOph	86	38217
21-JUN-2009 22:51:46	40ZetHer	133	38217
21-JUN-2009 23:18:43	23GamPer	160	38217

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090621_001644_000000382080_00073_38203_5822.N1	21-JUN-2009 00:16:44	Dark	38.000	52	16Bet Cet	2.0370	4500.0	76	38203	No
2	GOM_TRA_1PNPDE20090621_002235_000000322080_00073_38203_5823.N1	21-JUN-2009 00:22:35	Dark	31.500	84	Alp Phe	2.3970	4500.0	63	38203	No
3	GOM_TRA_1PNPDE20090621_002859_000000352080_00074_38204_5824.N1	21-JUN-2009 00:28:59	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38204	No
4	GOM_TRA_1PNPDE20090621_003102_000000352080_00074_38204_5825.N1	21-JUN-2009 00:31:02	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	38204	No
5	GOM_TRA_1PNPDE20090621_003321_000000422080_00074_38204_5826.N1	21-JUN-2009 00:33:21	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38204	No
6	GOM_TRA_1PNPDE20090621_004344_000000282080_00074_38204_5827.N1	21-JUN-2009 00:43:44	Twilight	28.000	38	20Eps Sgr	1.8360	11000.	56	38204	No
7	GOM_TRA_1PNPDE20090621_004511_000000292080_00074_38204_5828.N1	21-JUN-2009 00:45:11	Twilight	28.500	116	19Del Sgr	2.7000	4100.0	57	38204	No
8	GOM_TRA_1PNPDE20090621_004723_000000352080_00074_38204_5829.N1	21-JUN-2009 00:47:23	Twilight	34.500	155	41Pi Sgr	2.9000	6600.0	69	38204	No
9	GOM_TRA_1PNPDE20090621_005626_000000302080_00074_38204_5830.N1	21-JUN-2009 00:56:26	Bright	29.500	126	60Bet Oph	2.7700	4250.0	59	38204	No
10	GOM_TRA_1PNPDE20090621_005852_000000292080_00074_38204_5831.N1	21-JUN-2009 00:58:52	Bright	29.000	59	55Alp Oph	2.0800	8900.0	58	38204	No
11	GOM_TRA_1PNPDE20090621_010852_000000352080_00074_38204_5832.N1	21-JUN-2009 01:08:52	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	38204	No
12	GOM_TRA_1PNPDE20090621_011034_000000292080_00074_38204_5833.N1	21-JUN-2009 01:10:34	Bright	28.500	130	23Bet Dra	2.7990	5800.0	57	38204	No
13	GOM_TRA_1PNPDE20090621_012034_000000322080_00074_38204_5834.N1	21-JUN-2009 01:20:34	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38204	No
14	GOM_TRA_1PNPDE20090621_012723_000000282080_00074_38204_5835.N1	21-JUN-2009 01:27:23	Twilight	27.500	74	11Bet Cas	2.2680	6600.0	55	38204	No
15	GOM_TRA_1PNPDE20090621_012853_000000262080_00074_38204_5836.N1	21-JUN-2009 01:28:53	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38204	No
16	GOM_TRA_1PNPDE20090621_013424_000000232080_00074_38204_5837.N1	21-JUN-2009 01:34:24	Twilight	22.500	73	57Gam1And	2.2600	13100.	45	38204	No
17	GOM_TRA_1PNPDE20090621_013648_000000282080_00074_38204_5838.N1	21-JUN-2009 01:36:48	Twilight	27.500	53	43Bet And	2.0480	3300.0	55	38204	No
18	GOM_TRA_1PNPDE20090621_014031_000000242080_00074_38204_5839.N1	21-JUN-2009 01:40:31	Twilight	23.500	50	13Alp Ari	2.0070	4250.0	47	38204	No
19	GOM_TRA_1PNPDE20090621_015722_000000382080_00074_38204_5963.N1	21-JUN-2009 01:57:22	Dark	37.500	52	16Bet Cet	2.0370	4500.0	75	38204	No
20	GOM_TRA_1PNPDE20090621_020311_000000312080_00074_38204_5964.N1	21-JUN-2009 02:03:11	Dark	31.000	84	Alp Phe	2.3970	4500.0	62	38204	No
21	GOM_TRA_1PNPDE20090621_020936_000000352080_00075_38205_5965.N1	21-JUN-2009 02:09:36	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38205	No
22	GOM_TRA_1PNPDE20090621_021139_000000352080_00075_38205_5966.N1	21-JUN-2009 02:11:39	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	38205	No
23	GOM_TRA_1PNPDE20090621_021358_000000432080_00075_38205_5967.N1	21-JUN-2009 02:13:58	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38205	No
24	GOM_TRA_1PNPDE20090621_022422_000000272080_00075_38205_5968.N1	21-JUN-2009 02:24:22	Twilight	26.500	38	20Eps Sgr	1.8360	11000.	53	38205	No
25	GOM_TRA_1PNPDE20090621_022547_000000282080_00075_38205_5969.N1	21-JUN-2009 02:25:47	Twilight	28.000	116	19Del Sgr	2.7000	4100.0	56	38205	No

26	GOM_TRA_1PNPDE20090621_022759_000000352080_00075_38205_5970.N1	21-JUN-2009 02:27:59	Twilight	34.500	155	41Pi Sgr	2.9000	6600.0	69	38205	No
27	GOM_TRA_1PNPDE20090621_023701_000000292080_00075_38205_5971.N1	21-JUN-2009 02:37:01	Twilight	29.000	126	60Bet Oph	2.7700	4250.0	58	38205	No
28	GOM_TRA_1PNPDE20090621_023928_000000292080_00075_38205_5972.N1	21-JUN-2009 02:39:28	Bright	29.000	59	55Alp Oph	2.0800	8900.0	58	38205	No
29	GOM_TRA_1PNPDE20090621_024927_000000352080_00075_38205_5973.N1	21-JUN-2009 02:49:27	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	38205	No
30	GOM_TRA_1PNPDE20090621_025110_000000282080_00075_38205_5974.N1	21-JUN-2009 02:51:10	Bright	28.000	130	23Bet Dra	2.7990	5800.0	56	38205	No
31	GOM_TRA_1PNPDE20090621_030109_000000312080_00075_38205_5975.N1	21-JUN-2009 03:01:09	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38205	No
32	GOM_TRA_1PNPDE20090621_030759_000000282080_00075_38205_6138.N1	21-JUN-2009 03:07:59	Twilight	27.500	74	11Bet Cas	2.2680	6600.0	55	38205	No
33	GOM_TRA_1PNPDE20090621_030928_000000262080_00075_38205_6139.N1	21-JUN-2009 03:09:28	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38205	No
34	GOM_TRA_1PNPDE20090621_031459_000000232080_00075_38205_6140.N1	21-JUN-2009 03:14:59	Twilight	22.500	73	57Gam1And	2.2600	13100.	45	38205	No
35	GOM_TRA_1PNPDE20090621_031724_000000282080_00075_38205_6141.N1	21-JUN-2009 03:17:24	Twilight	27.500	53	43Bet And	2.0480	3300.0	55	38205	No
36	GOM_TRA_1PNPDE20090621_032107_000000242080_00075_38205_6142.N1	21-JUN-2009 03:21:07	Twilight	24.000	50	13Alp Ari	2.0070	4250.0	48	38205	No
37	GOM_TRA_1PNPDE20090621_033759_000000382080_00075_38205_6143.N1	21-JUN-2009 03:37:59	Dark	37.500	52	16Bet Cet	2.0370	4500.0	75	38205	No
38	GOM_TRA_1PNPDE20090621_034348_000000312080_00075_38205_6144.N1	21-JUN-2009 03:43:48	Dark	31.000	84	Alp Phe	2.3970	4500.0	62	38205	No
39	GOM_TRA_1PNPDE20090621_035013_000000352080_00076_38206_6145.N1	21-JUN-2009 03:50:13	Dark	35.000	63	Bet Gru	2.1500	2800.0	70	38206	No
40	GOM_TRA_1PNPDE20090621_035215_000000352080_00076_38206_6146.N1	21-JUN-2009 03:52:15	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	38206	No
41	GOM_TRA_1PNPDE20090621_035435_000000422080_00076_38206_6147.N1	21-JUN-2009 03:54:35	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38206	No
42	GOM_TRA_1PNPDE20090621_040532_000000312080_00076_38206_6148.N1	21-JUN-2009 04:05:32	Twilight	31.000	103	38Zet Sgr	2.6000	9700.0	62	38206	No
43	GOM_TRA_1PNPDE20090621_040655_000000322080_00076_38206_6149.N1	21-JUN-2009 04:06:55	Twilight	31.500	57	34Sig Sgr	2.0660	26000.	63	38206	No
44	GOM_TRA_1PNPDE20090621_040836_000000352080_00076_38206_6150.N1	21-JUN-2009 04:08:36	Twilight	34.500	155	41Pi Sgr	2.9000	6600.0	69	38206	No
45	GOM_TRA_1PNPDE20090621_041737_000000292080_00076_38206_6151.N1	21-JUN-2009 04:17:37	Twilight	29.000	126	60Bet Oph	2.7700	4250.0	58	38206	No
46	GOM_TRA_1PNPDE20090621_042004_000000292080_00076_38206_6152.N1	21-JUN-2009 04:20:04	Bright	29.000	59	55Alp Oph	2.0800	8900.0	58	38206	No
47	GOM_TRA_1PNPDE20090621_043002_000000352080_00076_38206_6153.N1	21-JUN-2009 04:30:02	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	38206	No
48	GOM_TRA_1PNPDE20090621_043146_000000282080_00076_38206_6154.N1	21-JUN-2009 04:31:46	Bright	28.000	130	23Bet Dra	2.7990	5800.0	56	38206	No
49	GOM_TRA_1PNPDE20090621_044145_000000312080_00076_38206_6155.N1	21-JUN-2009 04:41:45	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38206	No
50	GOM_TRA_1PNPDE20090621_055813_000000292080_00077_38207_6727.N1	21-JUN-2009 05:58:13	Bright	29.000	126	60Bet Oph	2.7700	4250.0	58	38207	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

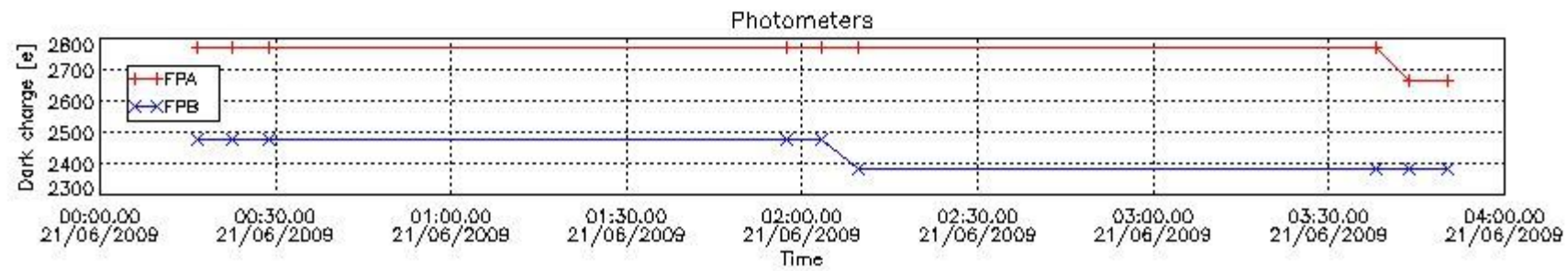
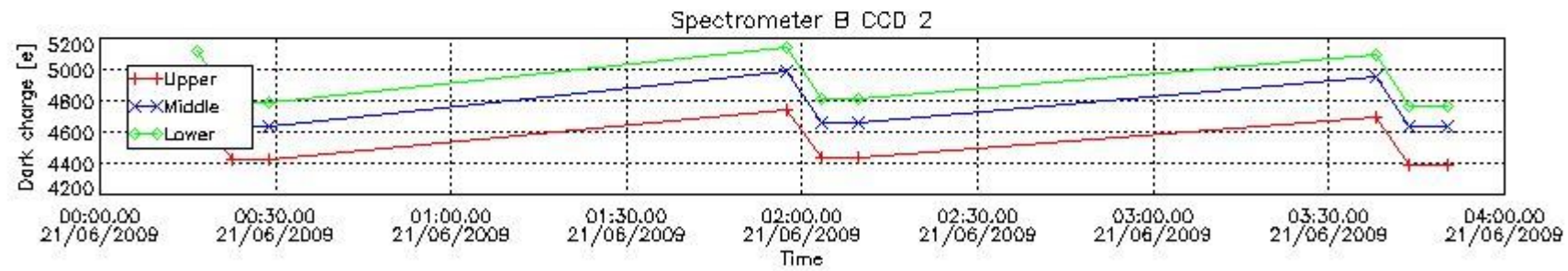
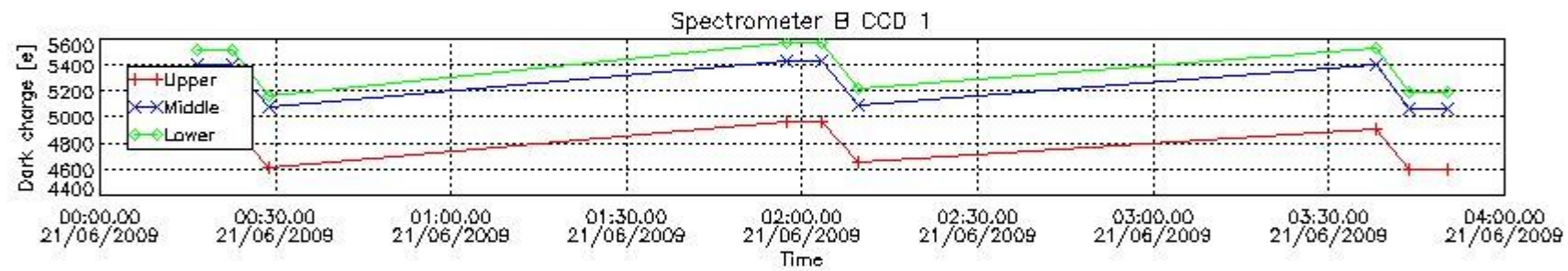
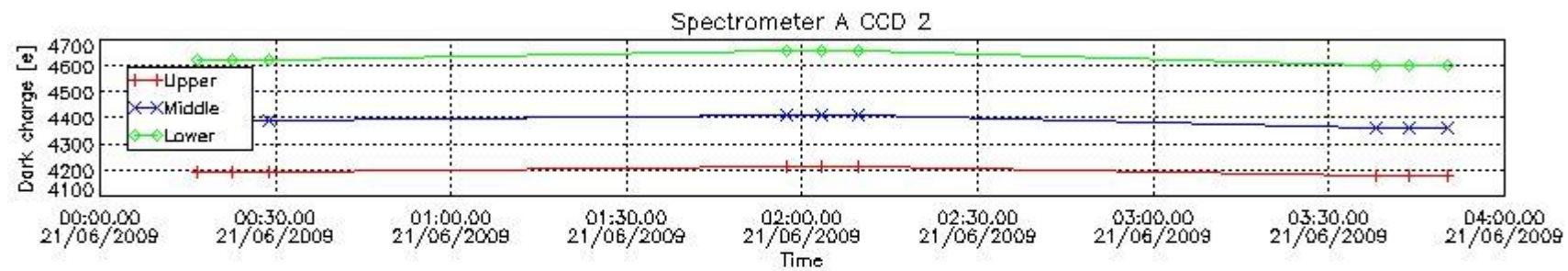
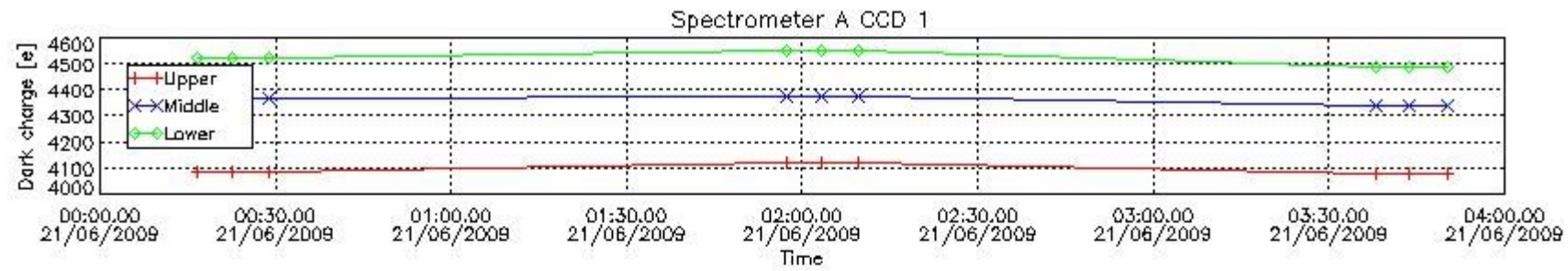
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090621_055813_000000292080_00077_38207_6727.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



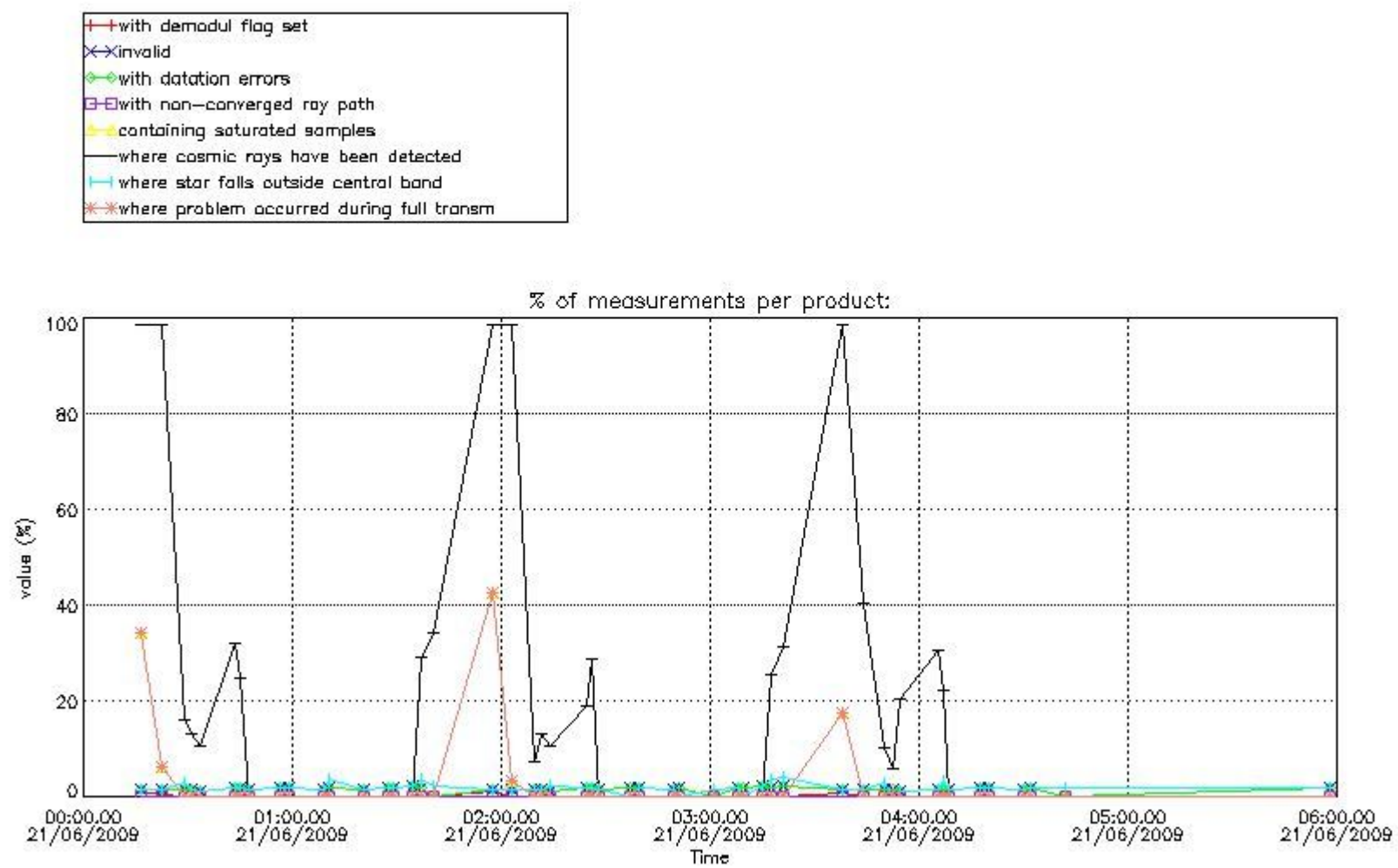
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

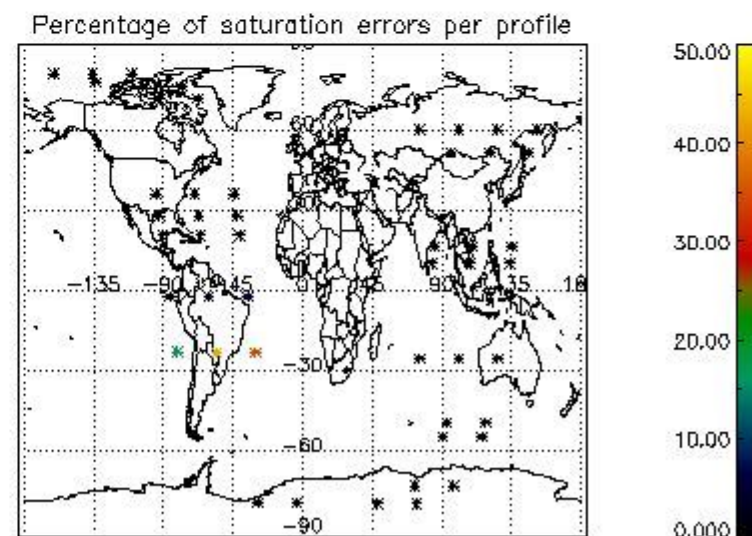
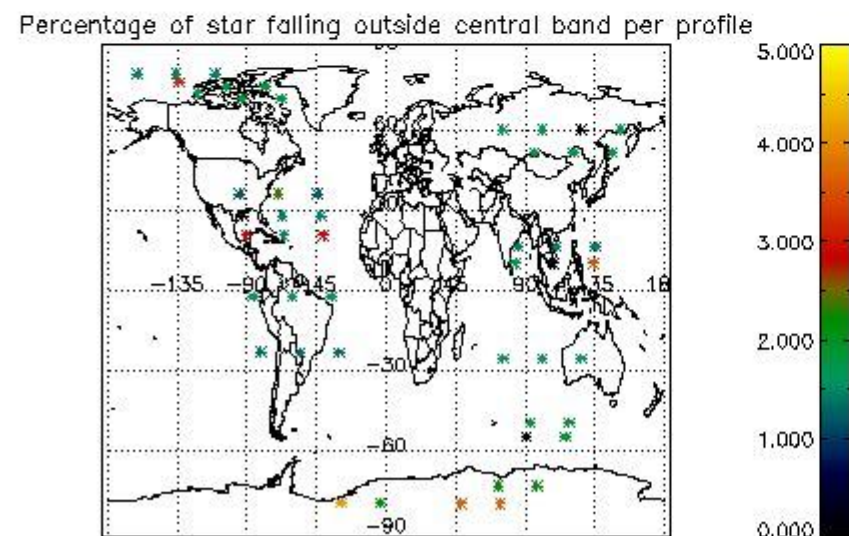
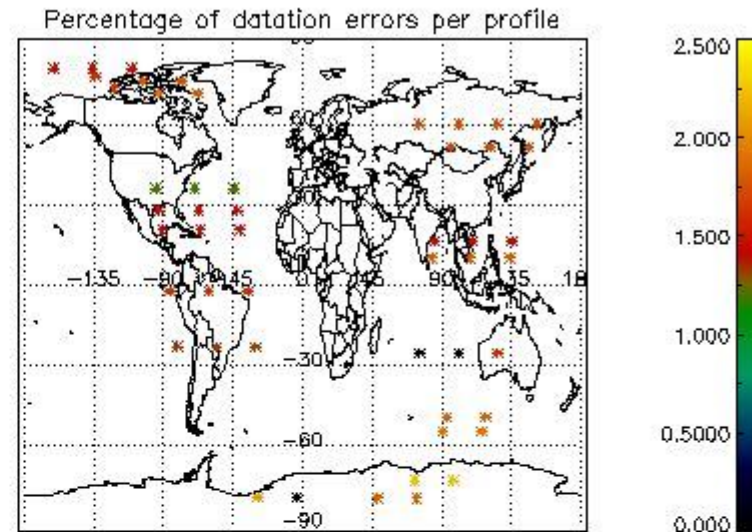
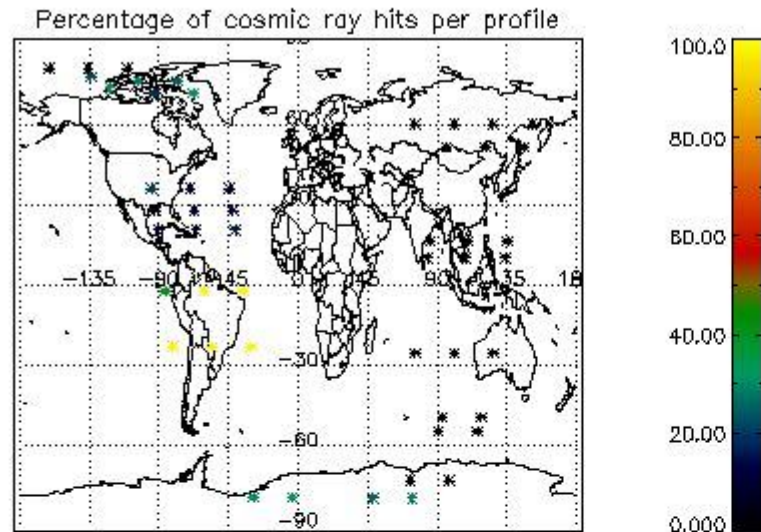
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



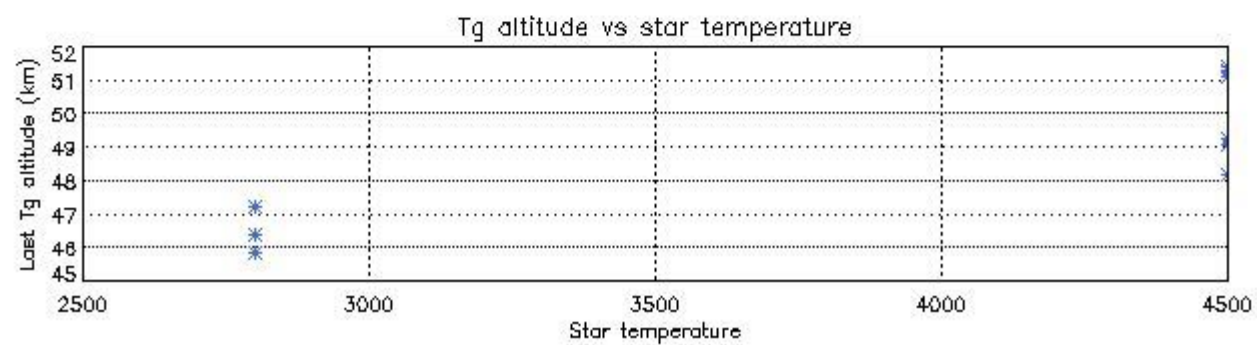
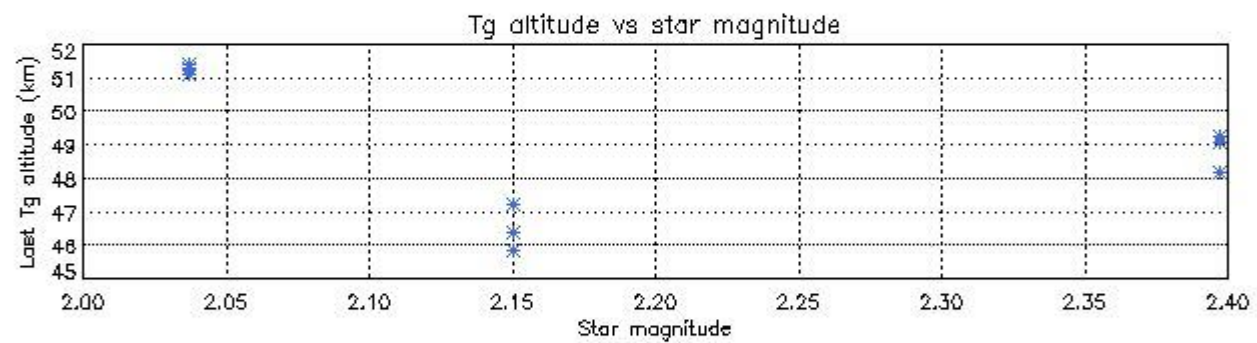
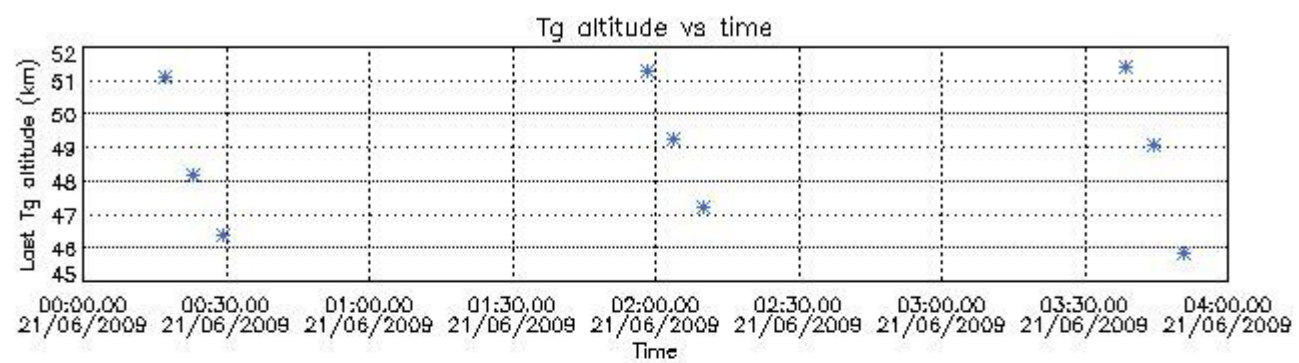
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	48.854	49.098	67.074
St. deviation:	2.1280	1.0328	0.82263
Maximum:	51.422	50.616	67.656
Minimum:	45.820	47.411	66.493
Number of data:	9.0000	11.000	2.0000

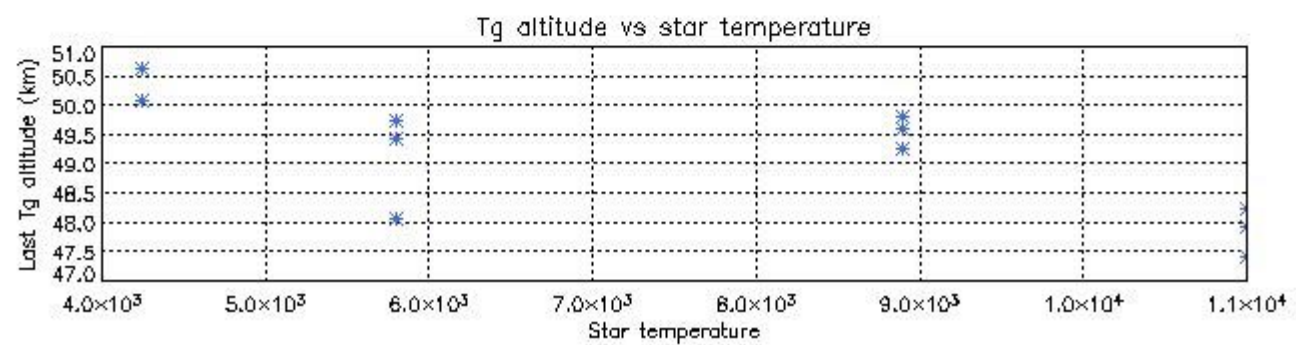
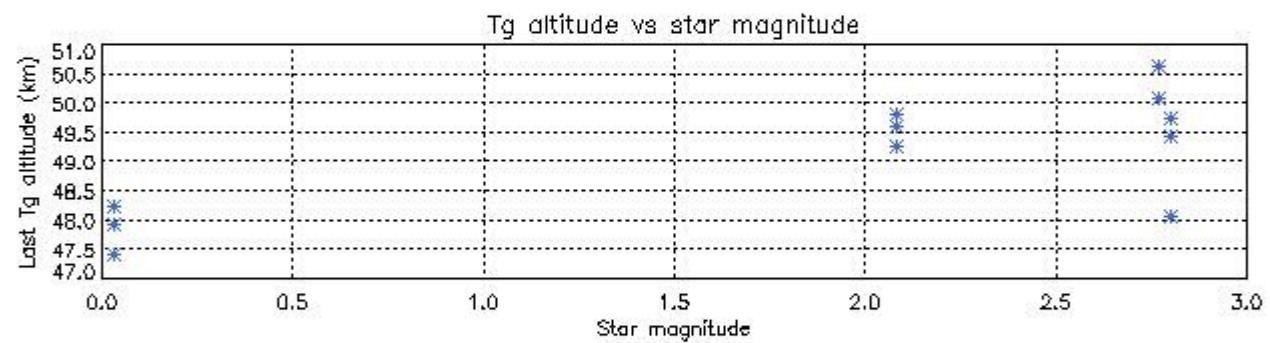
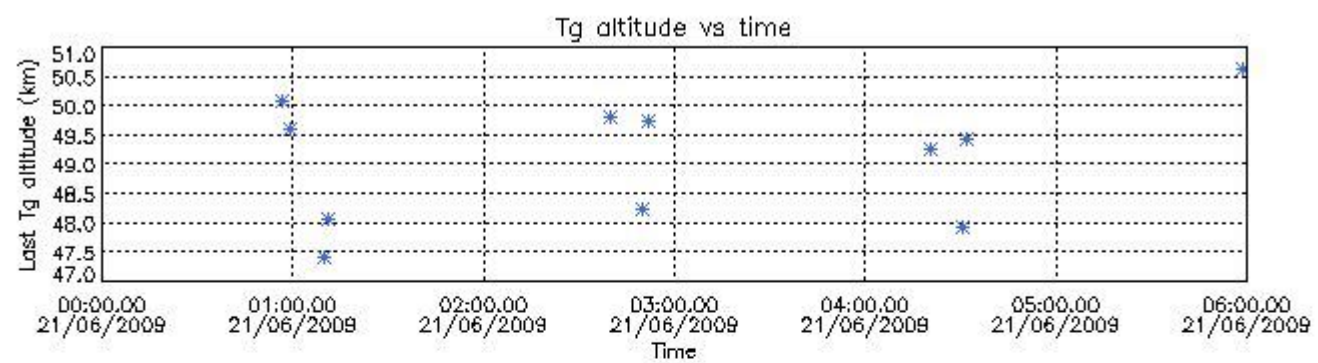
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



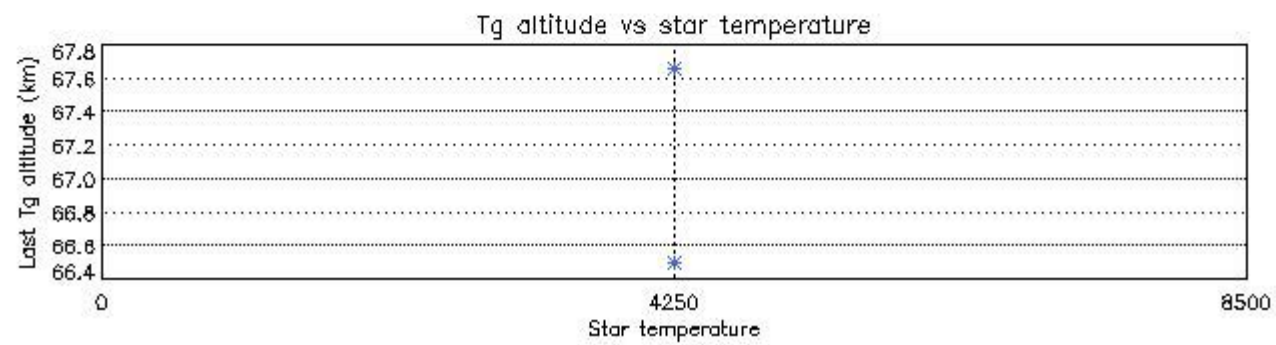
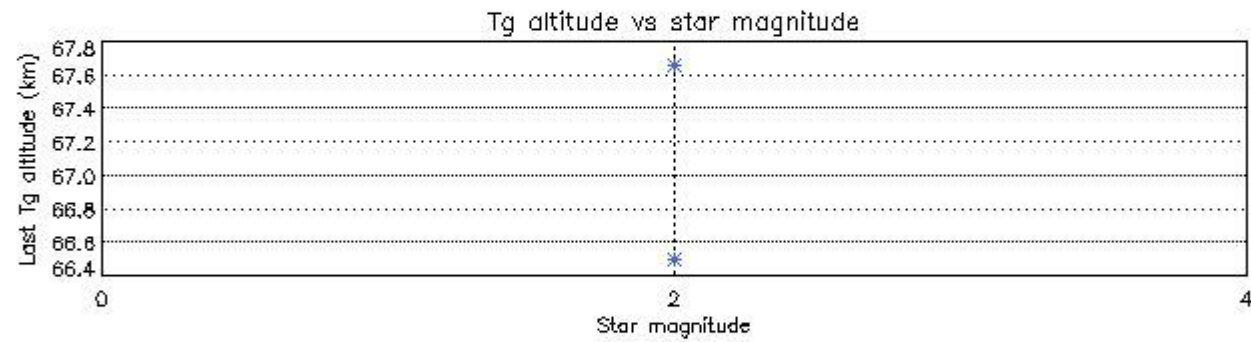
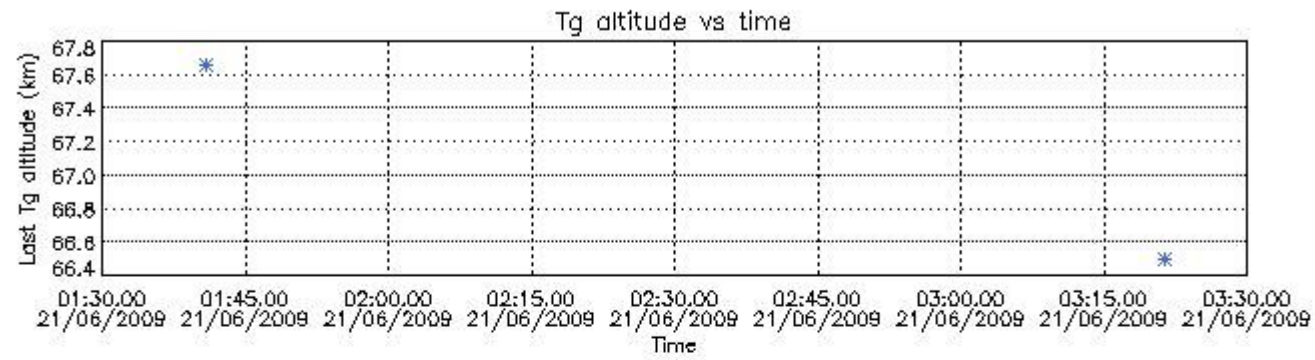
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

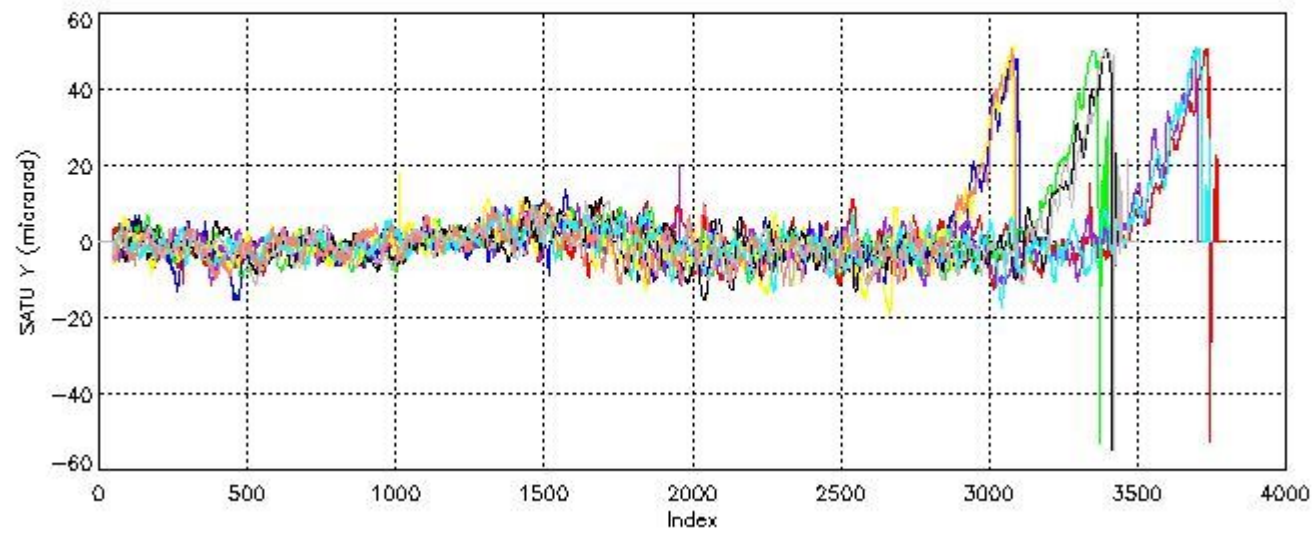
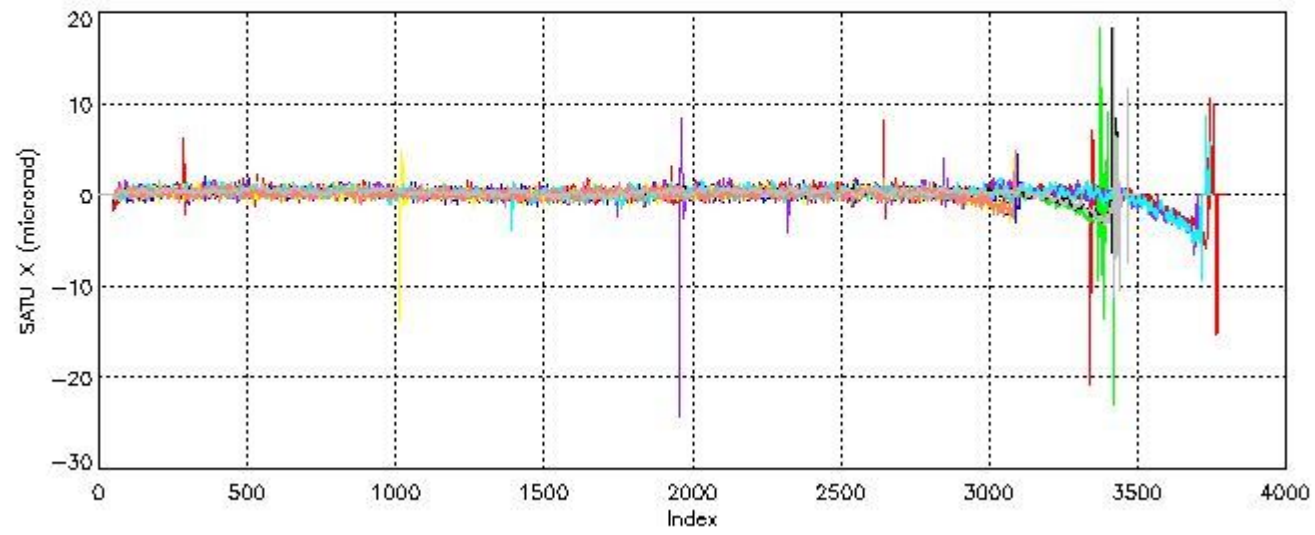


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.30109	-1.4800	0.31831	-1.3804
St. deviation:	0.37203	2.9357	0.63068	2.5511
Maximum:	6.1000	18.000	3.1000	11.000
Minimum:	-13.700	-15.400	-3.3000	-12.300

Number of data:	10600.	10600.	10900.	10900.
-----------------	--------	--------	--------	--------

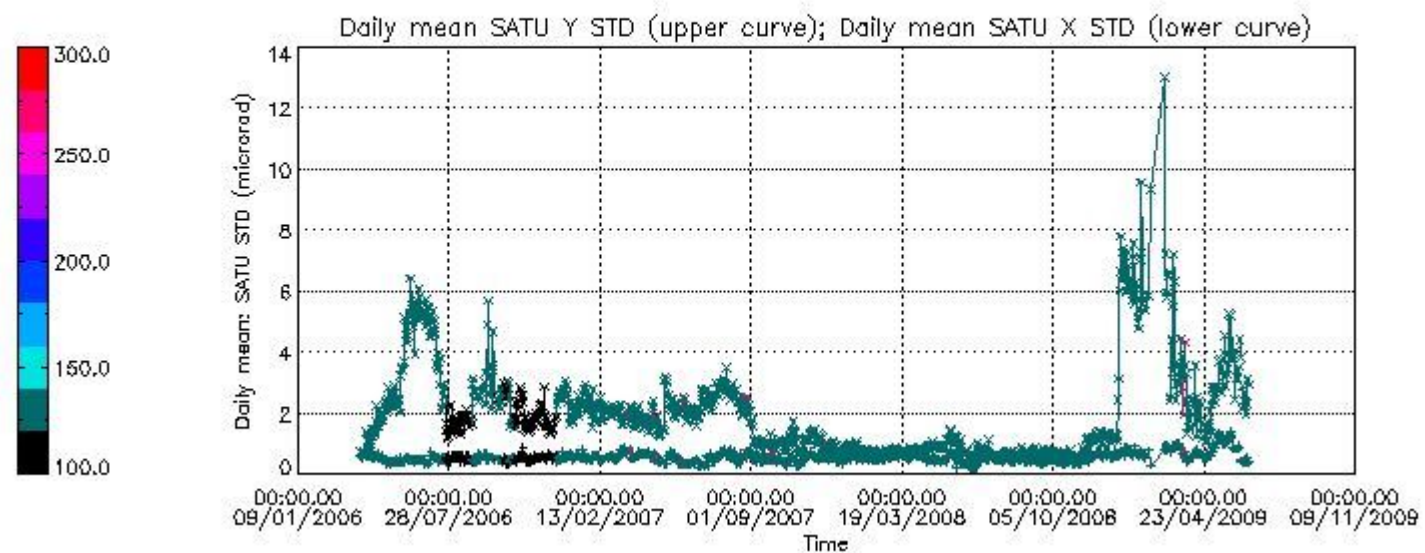
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

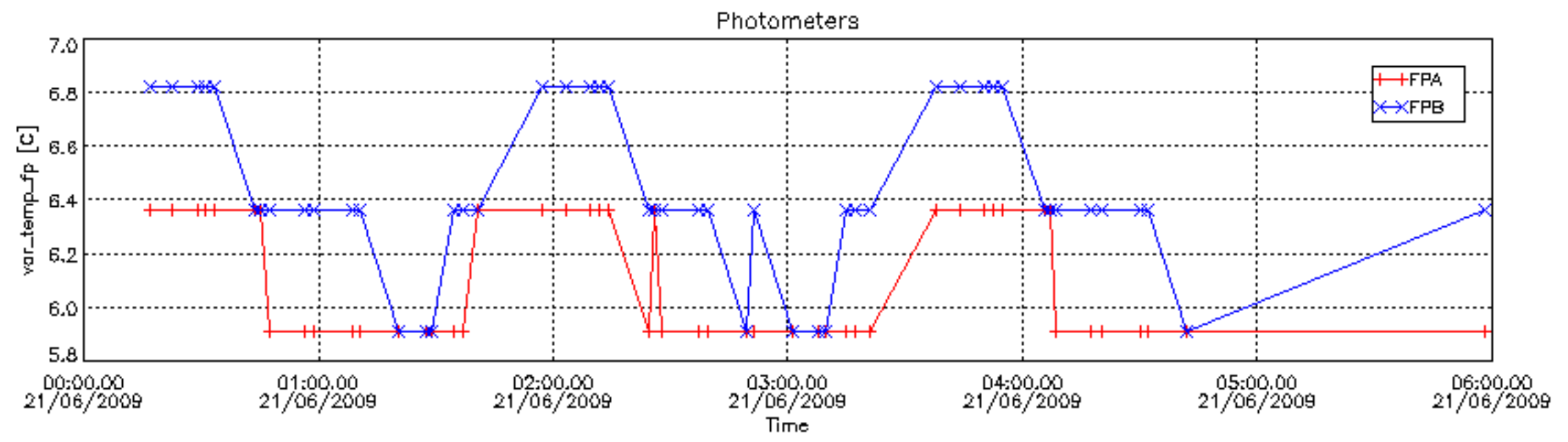
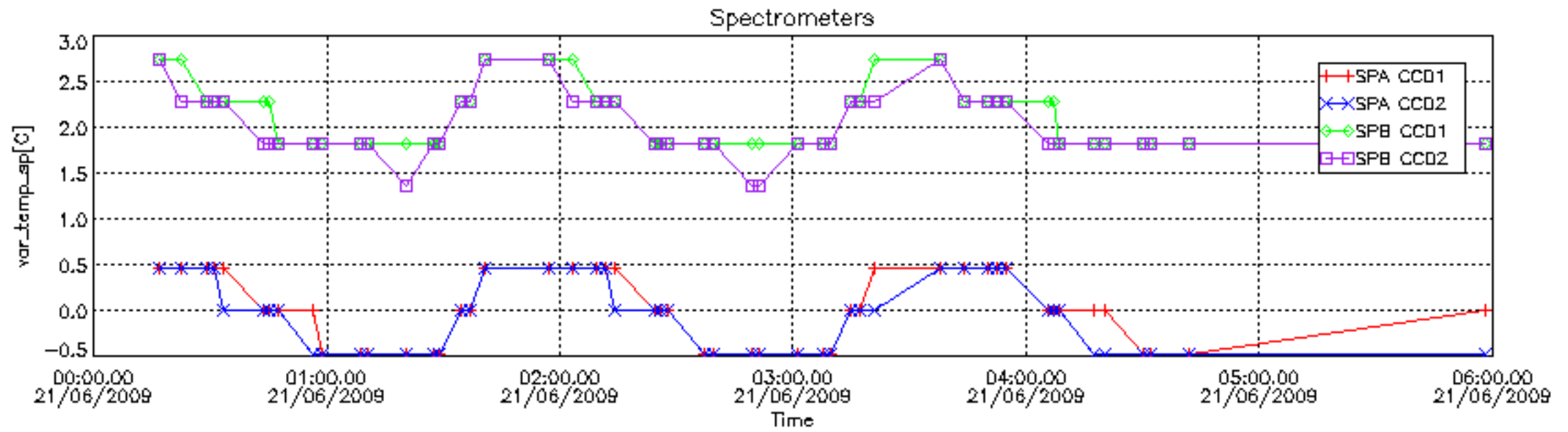
Lower curve: STD of SATU X axis

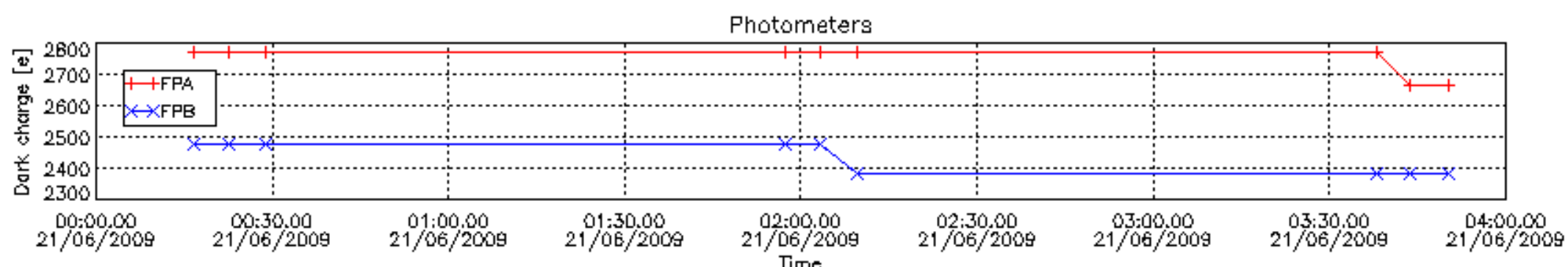
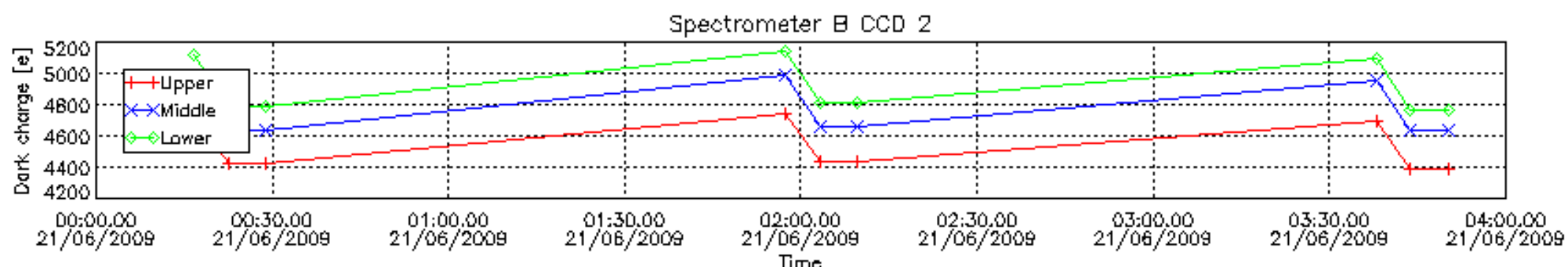
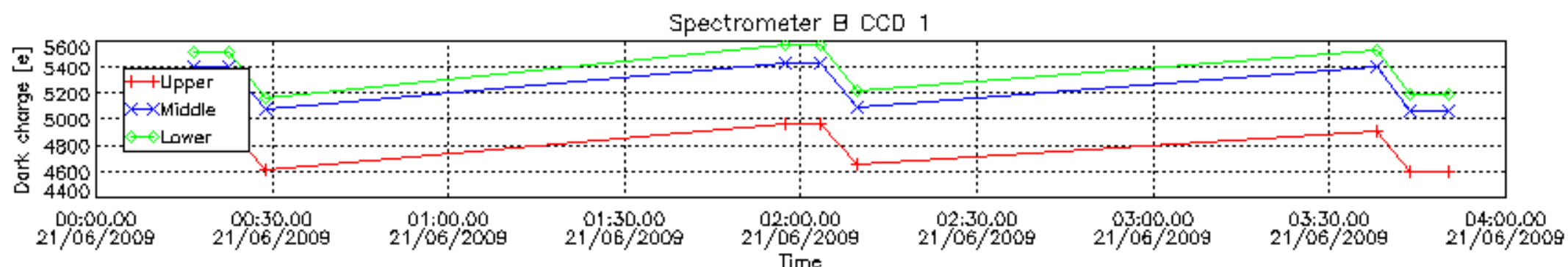
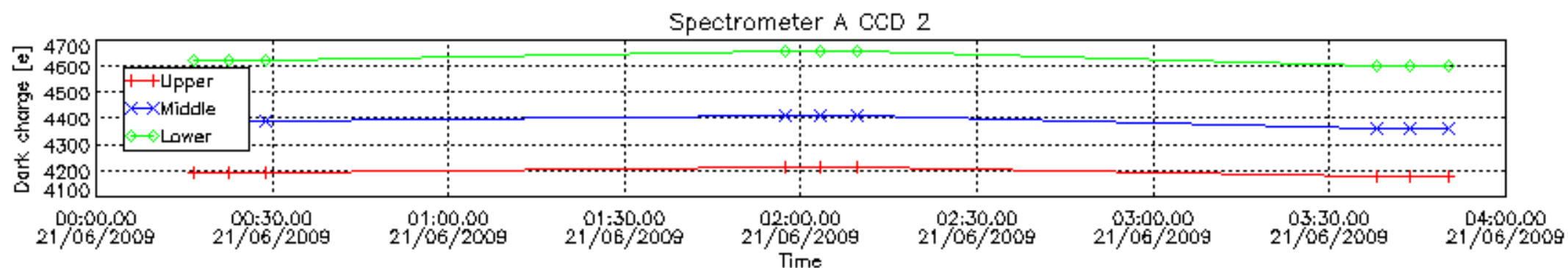
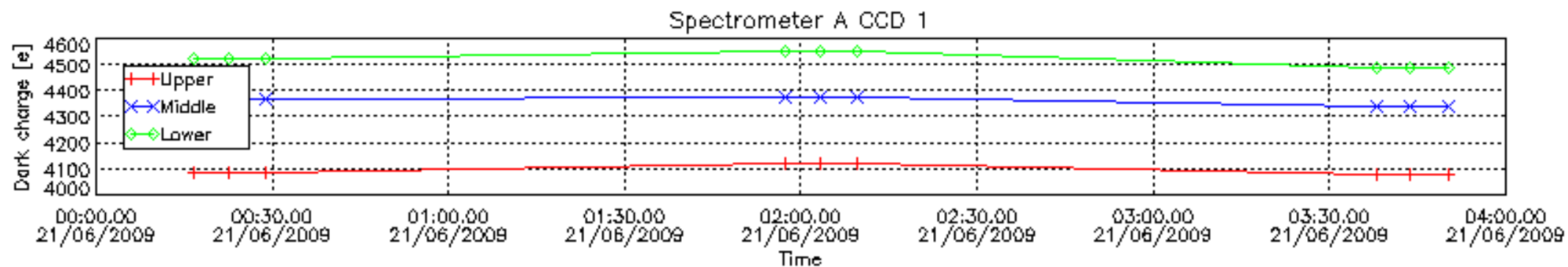


8. Auxiliary Data Files used for the production reported in section 2.4

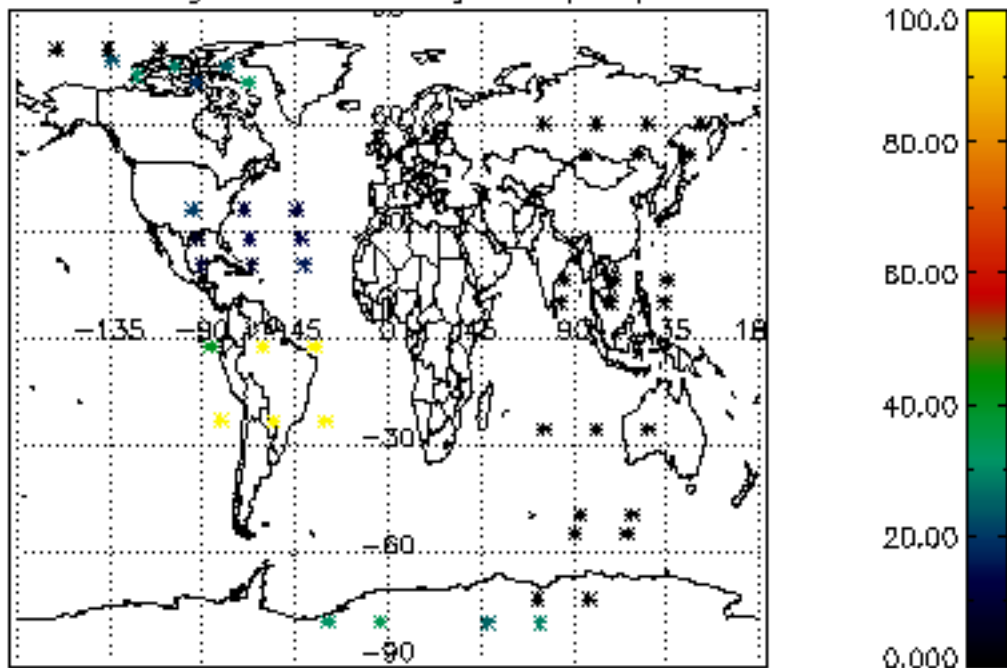
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-JUN-2009 00:16:44
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JUN-2009 00:16:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JUN-2009 00:16:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JUN-2009 00:16:44
ECMWF_FILE	AUX_ECF_AXNECM20090620_064113_20090620_210000_20090621_090000	1	21-JUN-2009 00:16:44
ECMWF_FILE	AUX_ECF_AXNECM20090620_184112_20090621_030000_20090621_150000	32	21-JUN-2009 03:07:59
OPTIONAL_ECMWF_FILE	MISSING	1	21-JUN-2009 00:16:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090620_222545_000060572080_00072_38202_8193.N1	1	21-JUN-2009 00:16:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090621_000642_000057382080_00073_38203_8194.N1	19	21-JUN-2009 01:57:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090621_014739_000041442080_00074_38204_8195.N1	32	21-JUN-2009 03:07:59
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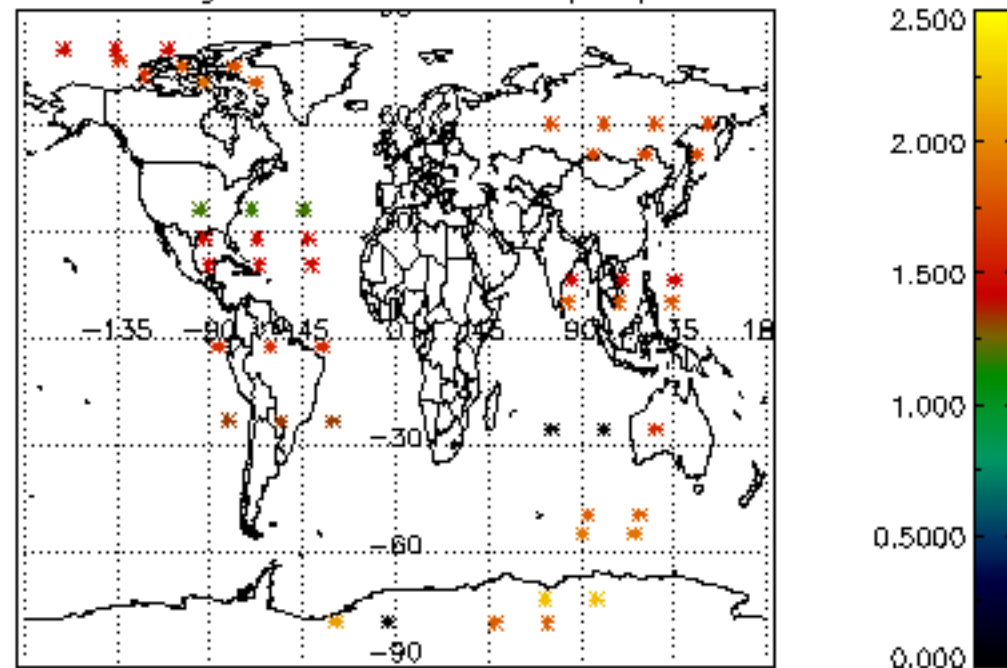




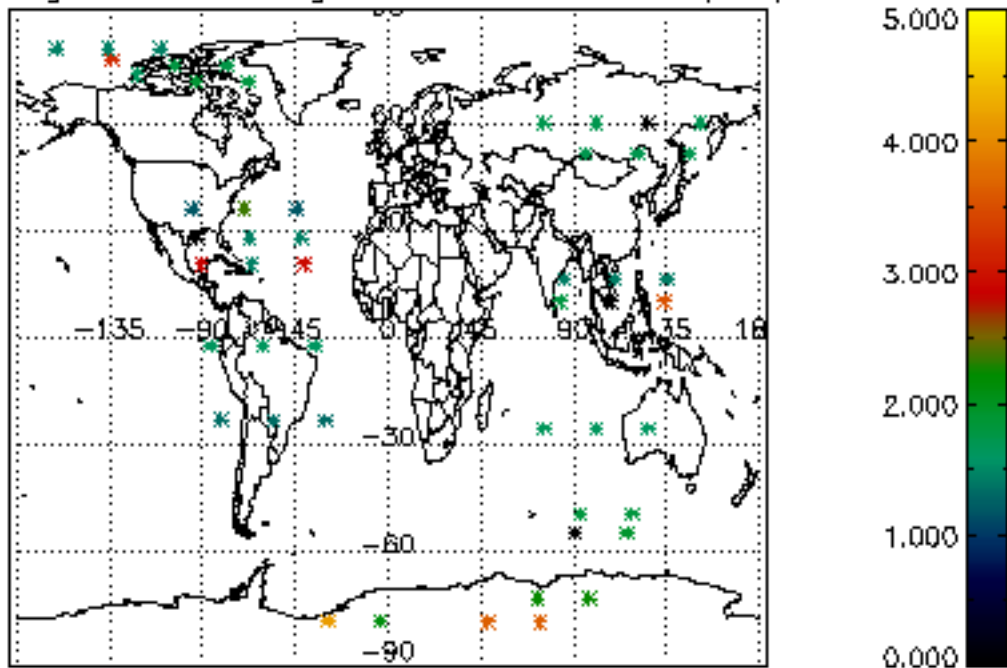
Percentage of cosmic ray hits per profile



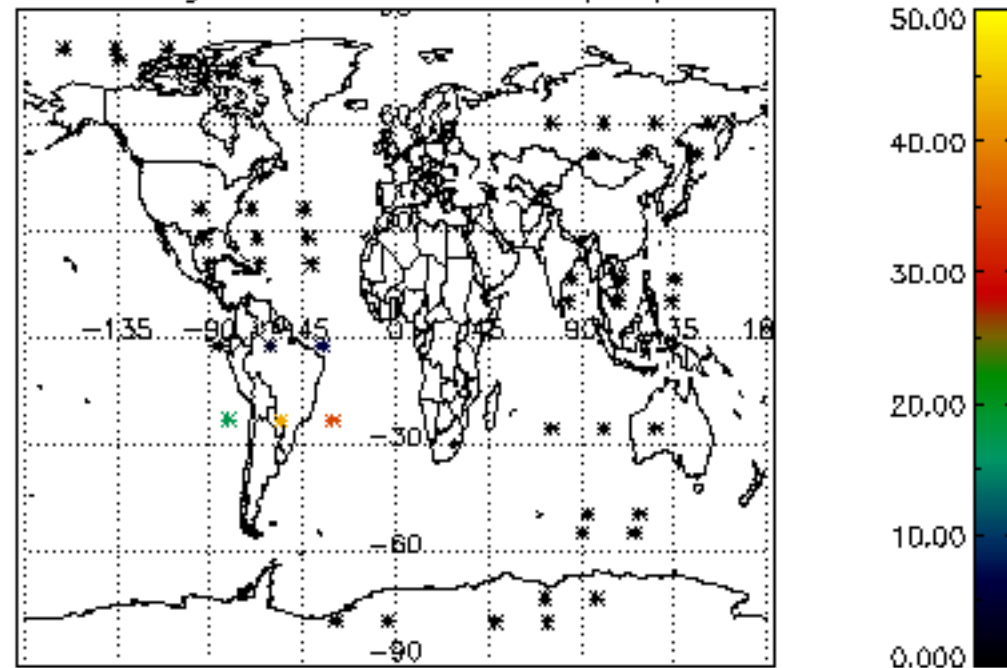
Percentage of datation errors per profile



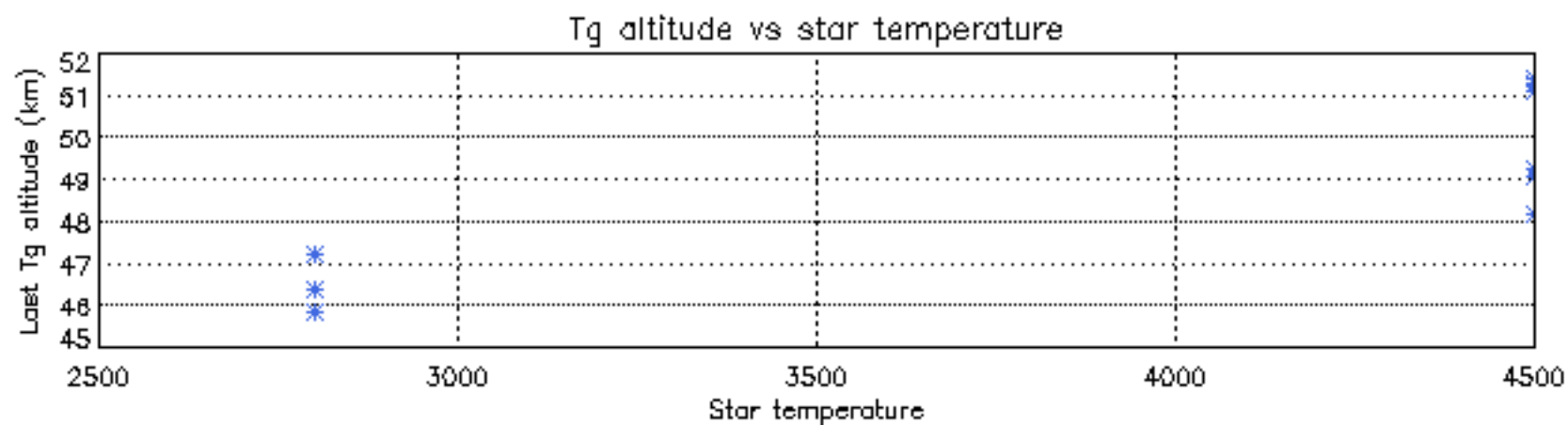
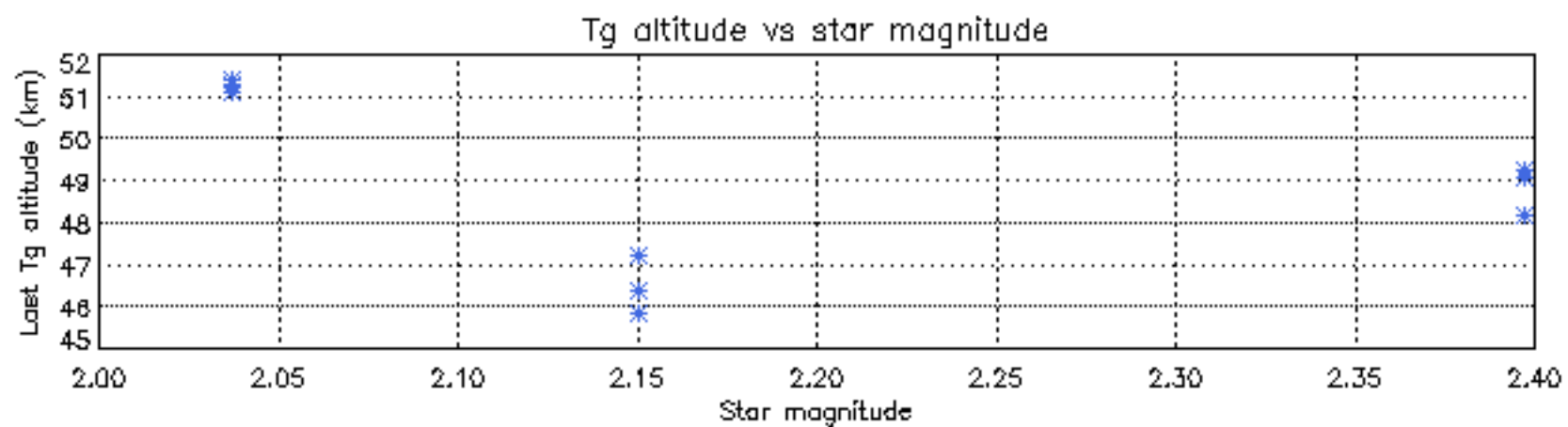
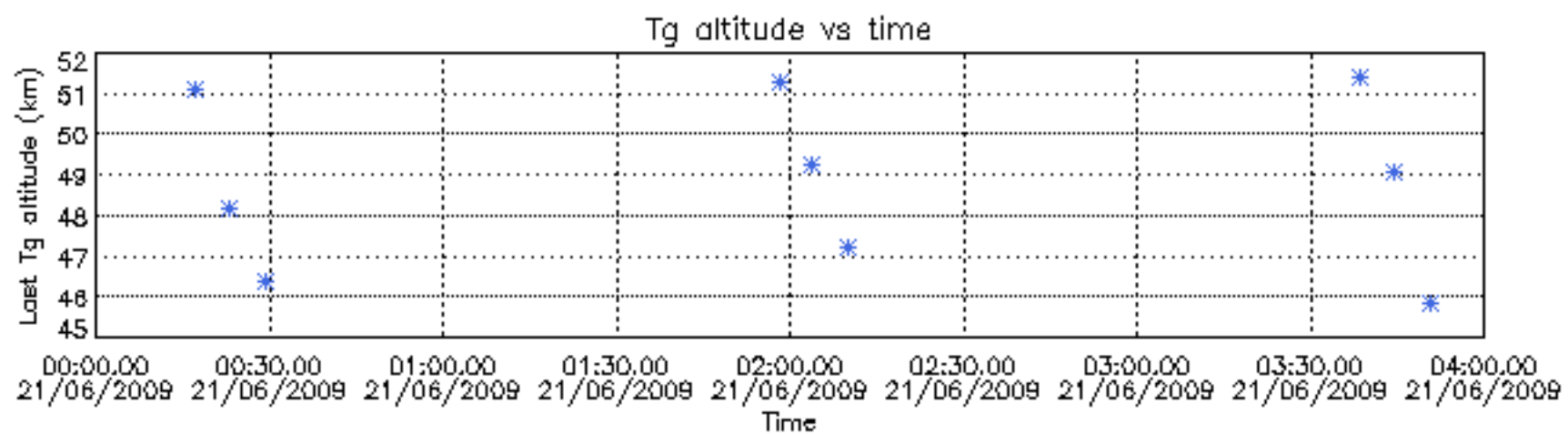
Percentage of star falling outside central band per profile



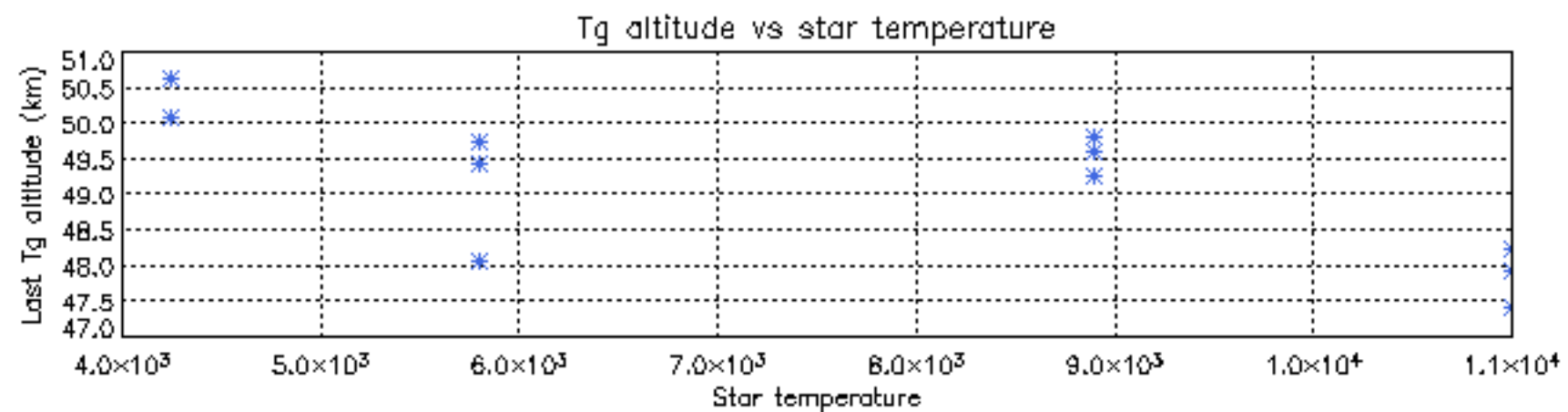
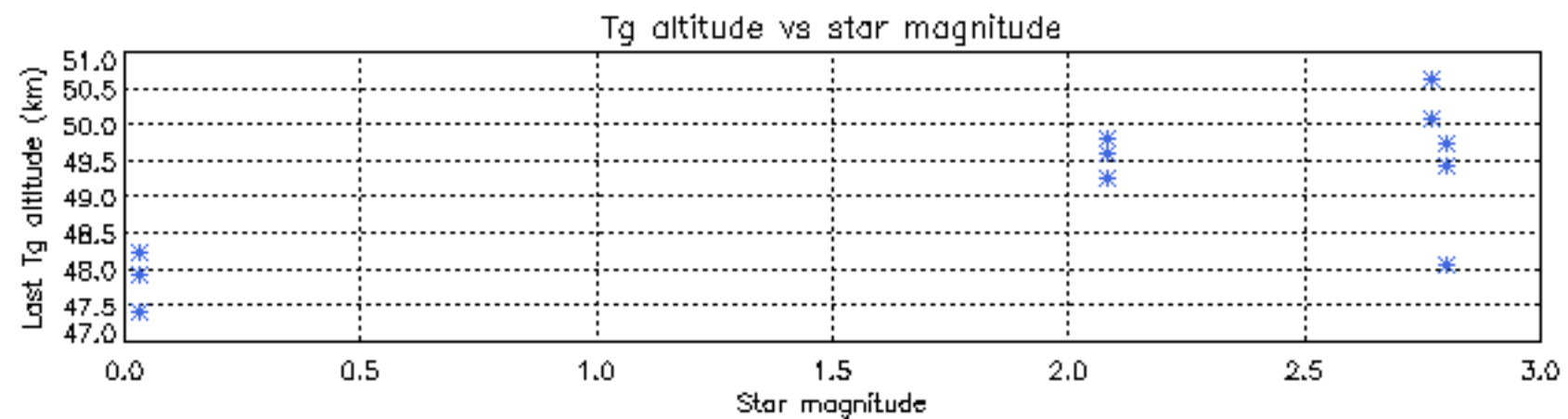
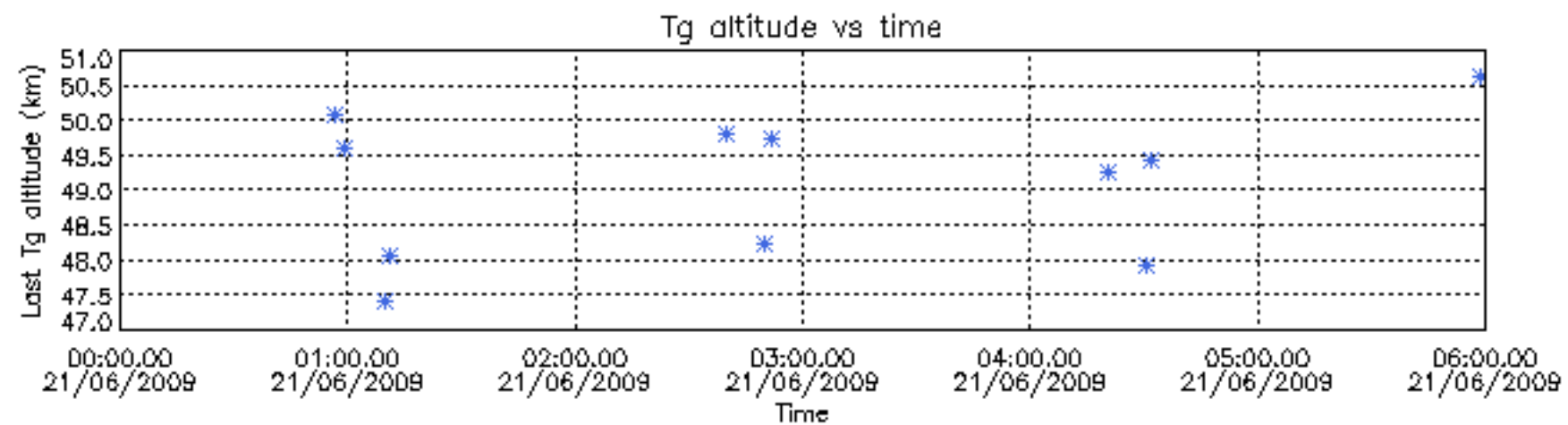
Percentage of saturation errors per profile



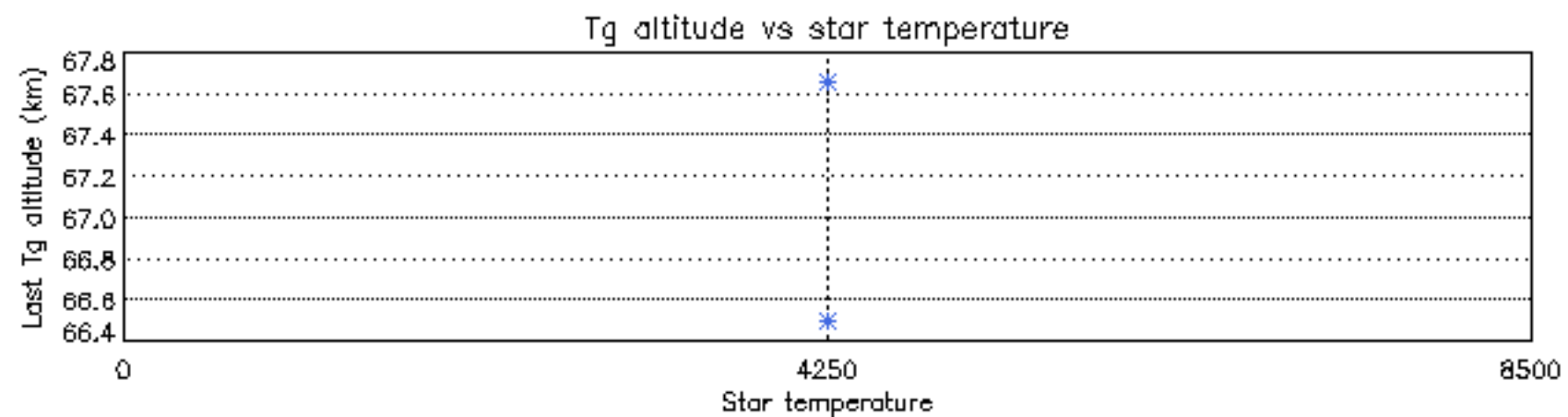
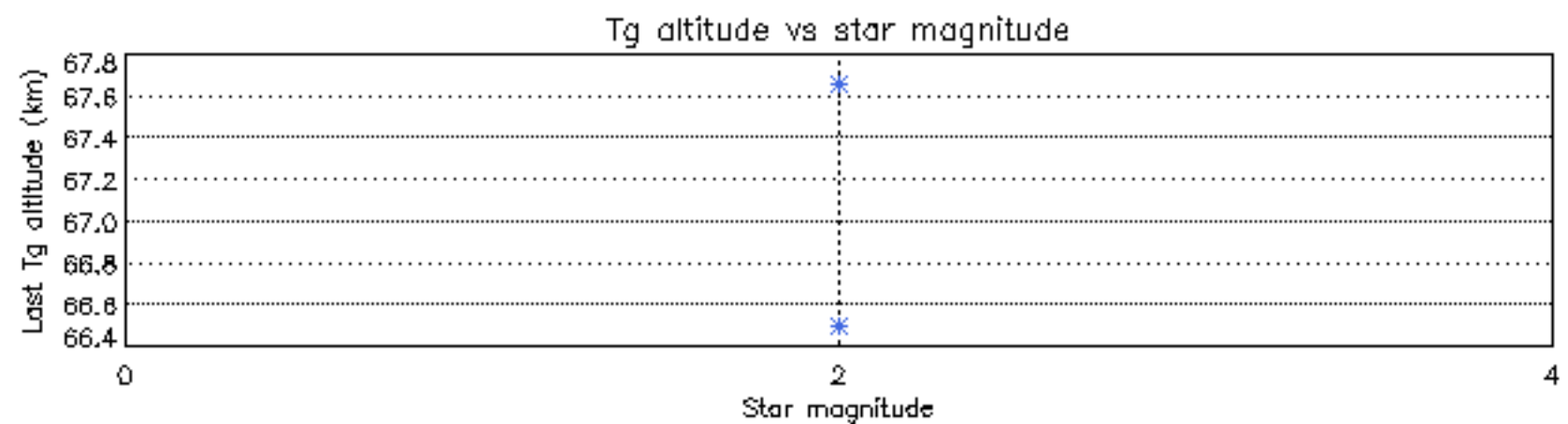
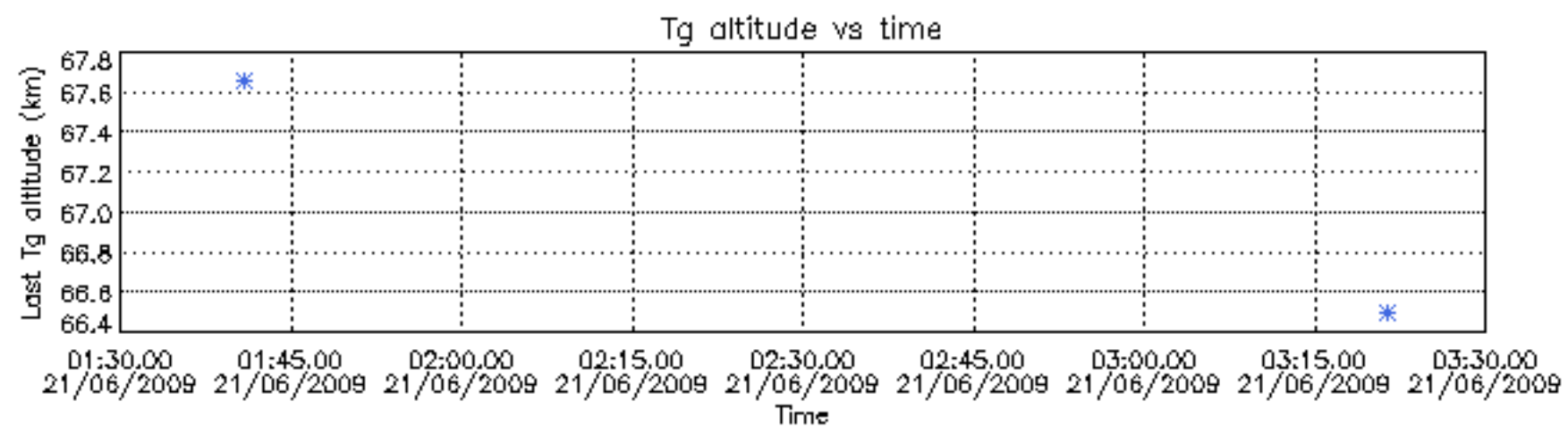
Tangent altitude at which the star is lost

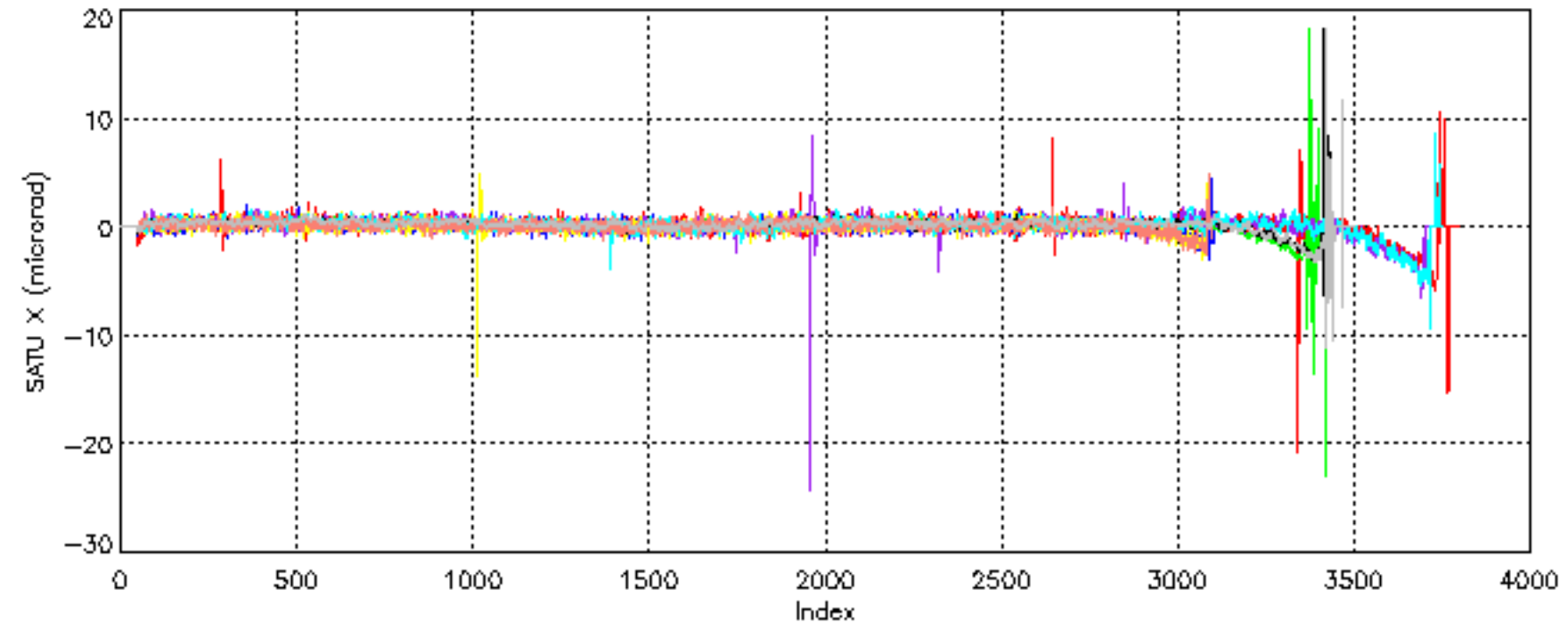


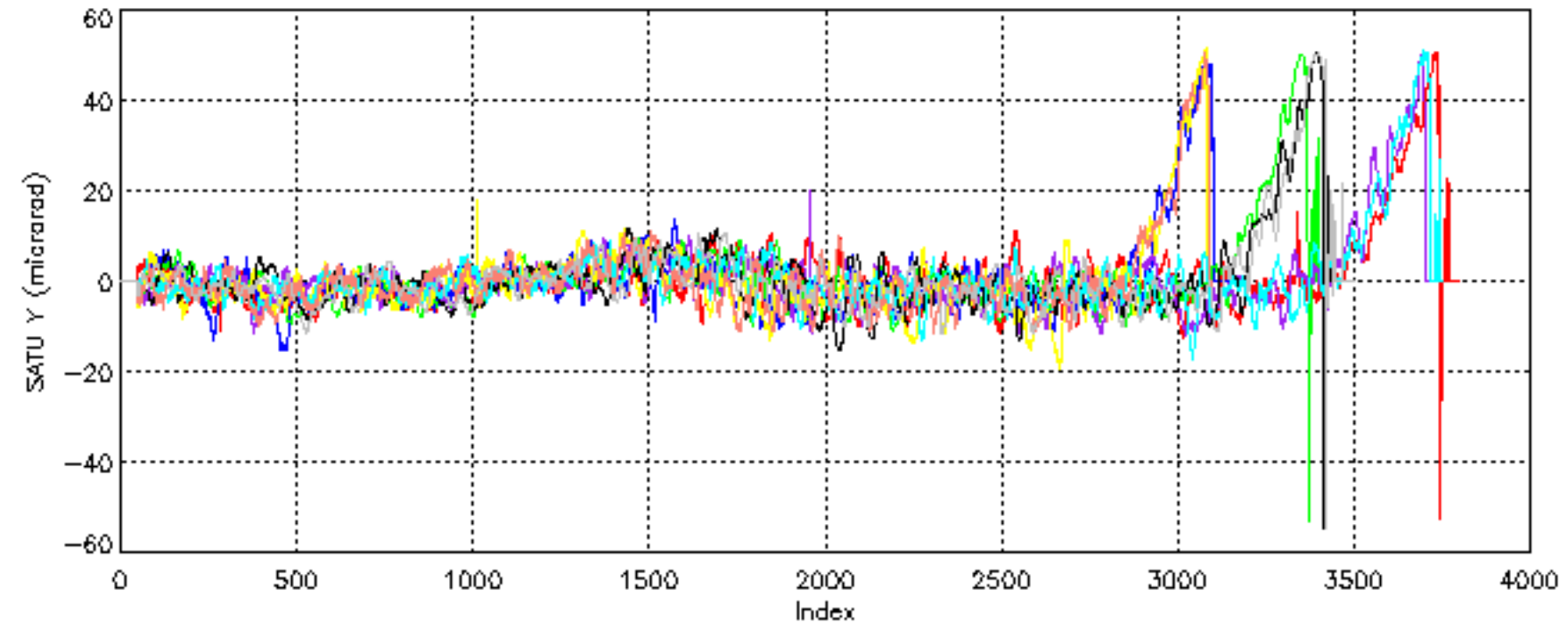
Tangent altitude at which the star is lost

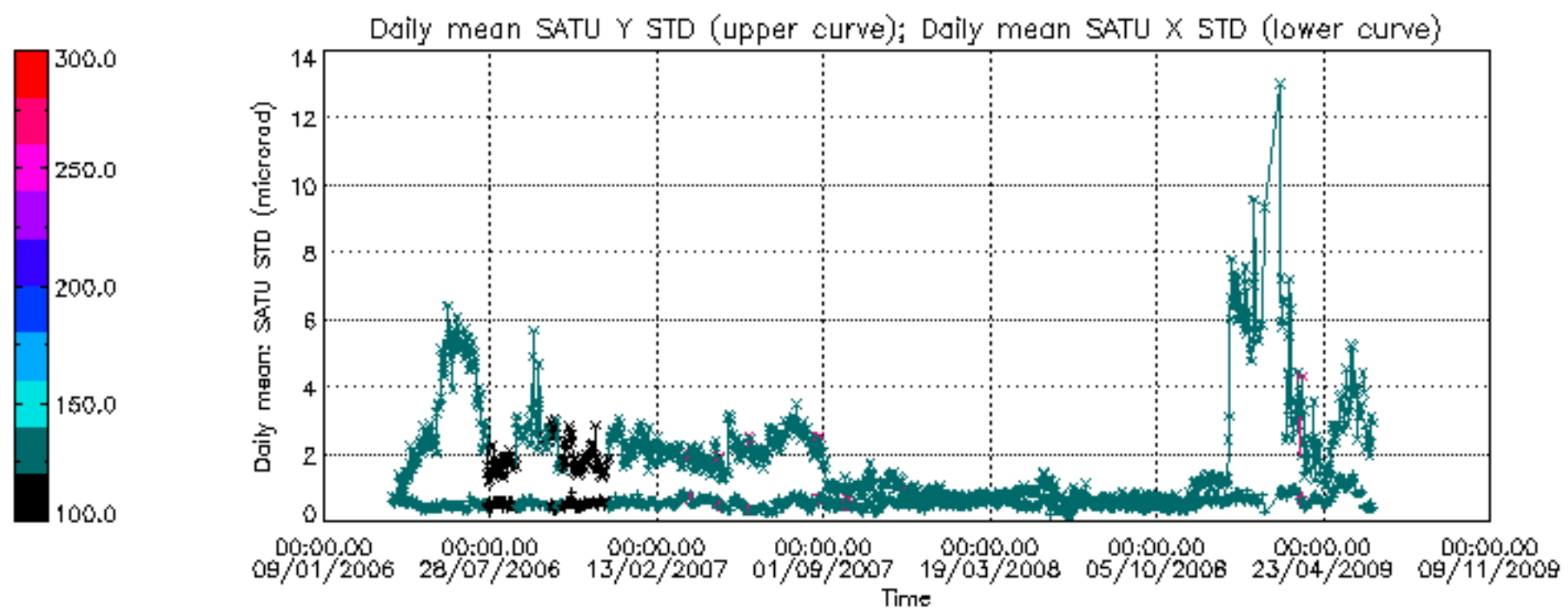


Tangent altitude at which the star is lost









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 4; 2973.9; 01-JUN-2009 08:23:54; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37922
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 13; 7246.1; 01-JUN-2009 09:35:06; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37922
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 3; 2525.0; 01-JUN-2009 11:37:37; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37924
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 7; 4557.4; 01-JUN-2009 12:11:29; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37924
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13; 7247.1; 01-JUN-2009 12:56:19; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37924
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13; 7146.7; 01-JUN-2009 14:35:15; Dark ; 34.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 69; 0;37925
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 3; 2524.0; 01-JUN-2009 16:39:24; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37927
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 4; 2318.8; 01-JUN-2009 18:16:35; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37928
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9; 1270.9; 07-JUN-2009 03:05:13; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38005
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4; 205.1; 10-JUN-2009 21:19:48; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38059
5; 326.3; 10-JUN-2009 21:21:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38059
6; 1176.6; 10-JUN-2009 21:36:00; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38059
7; 1295.9; 10-JUN-2009 21:37:59; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38059
8; 2027.4; 10-JUN-2009 21:50:10; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;38059
9; 2184.3; 10-JUN-2009 21:52:47; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38059
10; 2897.7; 10-JUN-2009 22:04:41; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38059
11; 3539.4; 10-JUN-2009 22:15:22; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38059
12; 3900.0; 10-JUN-2009 22:21:23; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38059
13; 4406.4; 10-JUN-2009 22:29:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38059
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3; 79.0; 10-JUN-2009 22:58:18; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38060
4; 205.9; 10-JUN-2009 23:00:25; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38060
5; 327.4; 10-JUN-2009 23:02:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38060
6; 417.0; 10-JUN-2009 23:03:56; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38060
7; 1176.9; 10-JUN-2009 23:16:36; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38060
8; 1296.5; 10-JUN-2009 23:18:35; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38060
9; 2027.3; 10-JUN-2009 23:30:46; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;38060
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11; 2897.2; 10-JUN-2009 23:45:16; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38060
12; 3539.0; 10-JUN-2009 23:55:58; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38060
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6; 318.6; 10-JUN-2009 07:56:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
7; 1173.7; 10-JUN-2009 08:11:09; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38051
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3; 2901.3; 10-JUN-2009 10:20:33; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38052
4; 3544.4; 10-JUN-2009 10:31:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38052
5; 3901.7; 10-JUN-2009 10:37:13; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38052
6; 4405.6; 10-JUN-2009 10:45:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38052
7; 5377.2; 10-JUN-2009 11:01:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38052
8; 5490.3; 10-JUN-2009 11:03:42; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38052
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11; 6356.4; 10-JUN-2009 11:18:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38052
12; 7209.9; 10-JUN-2009 11:32:21; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38052
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3; 3543.8; 10-JUN-2009 12:11:51; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38053
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5; 4405.6; 10-JUN-2009 12:26:13; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38053
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9; 6236.4; 10-JUN-2009 12:56:44; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38053
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11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
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3; 2900.5; 10-JUN-2009 13:41:44; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38054
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4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
6; 4406.3; 10-JUN-2009 15:47:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38055
7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
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6; 330.6; 11-JUN-2009 04:04:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38063
7; 421.5; 11-JUN-2009 04:05:48; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38063

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6; 209.9; 11-JUN-2009 05:42:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38064
7; 331.2; 11-JUN-2009 05:44:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38064
8; 422.8; 11-JUN-2009 05:46:25; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38064
9; 1179.0; 11-JUN-2009 05:59:02; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38064
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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
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7; 332.4; 11-JUN-2009 07:25:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38065
8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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2; 2181.8; 11-JUN-2009 07:56:20; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;38065
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4; 3535.5; 11-JUN-2009 08:18:54; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38065
5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38065
6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
7; 5389.2; 11-JUN-2009 08:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38065
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12; 6461.4; 11-JUN-2009 09:07:40; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
13; 7215.7; 11-JUN-2009 09:20:14; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38065
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
5; 3898.3; 11-JUN-2009 10:05:33; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;38066
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3; 89.9; 11-JUN-2009 10:42:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38067
4; 213.0; 11-JUN-2009 10:44:43; Dark ; 33.0; 63; Bet Gru ; 2.15; 2800;occ; 66; 0;38067
5; 334.5; 11-JUN-2009 10:46:45; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38067
6; 427.0; 11-JUN-2009 10:48:17; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
7; 1180.2; 11-JUN-2009 11:00:50; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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2; 1301.9; 11-JUN-2009 21:06:28; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38073
3; 2023.1; 11-JUN-2009 21:18:29; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38073

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6; 3530.5; 11-JUN-2009 21:43:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38073
7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
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5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
8; 1302.2; 11-JUN-2009 22:47:04; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38074
9; 2022.6; 11-JUN-2009 22:59:04; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38074
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12; 3529.7; 11-JUN-2009 23:24:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38074
13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
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11; 2891.0; 12-JUN-2009 00:54:09; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38075
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8; 4407.4; 11-JUN-2009 18:37:01; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38071
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9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
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6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
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13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
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7; 360.9; 13-JUN-2009 08:03:21; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38094
8; 463.5; 13-JUN-2009 08:05:04; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38094
9; 1191.4; 13-JUN-2009 08:17:12; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38094
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3; 2882.3; 13-JUN-2009 08:45:23; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38094
4; 3516.6; 13-JUN-2009 08:55:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38094
5; 3889.7; 13-JUN-2009 09:02:10; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38094
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4; 3515.8; 13-JUN-2009 10:36:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38095
5; 3889.4; 13-JUN-2009 10:42:46; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38095
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3; 2881.5; 13-JUN-2009 12:06:34; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38096
4; 3515.0; 13-JUN-2009 12:17:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38096
5; 3888.8; 13-JUN-2009 12:23:21; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38096
6; 4409.1; 13-JUN-2009 12:32:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38096
7; 5419.7; 13-JUN-2009 12:48:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38096
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11; 6400.2; 13-JUN-2009 13:05:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38096
12; 6503.4; 13-JUN-2009 13:06:56; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38096
13; 7228.4; 13-JUN-2009 13:19:01; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38096
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5; 3888.7; 13-JUN-2009 14:03:57; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38097
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 3; -1624.0; 16-JUN-2009 07:36:01; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38136
 4; -1034.2; 16-JUN-2009 07:45:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38136
 5; -465.2; 16-JUN-2009 07:55:20; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38136
 6; 281.0; 16-JUN-2009 08:07:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38137
 7; 403.8; 16-JUN-2009 08:09:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137
 8; 521.3; 16-JUN-2009 08:11:47; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38137
 9; 1239.8; 16-JUN-2009 08:23:45; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137
 10; 1327.2; 16-JUN-2009 08:25:13; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137
 11; 1433.8; 16-JUN-2009 08:26:59; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38137

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 2; 2156.2; 16-JUN-2009 08:39:02; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38137
 3; 2794.7; 16-JUN-2009 08:49:40; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38137
 4; 2893.8; 16-JUN-2009 08:51:19; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38137
 5; 3487.6; 16-JUN-2009 09:01:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38137
 6; 3875.5; 16-JUN-2009 09:07:41; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38137
 7; 3959.3; 16-JUN-2009 09:09:05; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38137
 8; 4412.0; 16-JUN-2009 09:16:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38137
 9; 5002.2; 16-JUN-2009 09:26:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38137
 10; 5572.2; 16-JUN-2009 09:35:58; Dark ; 33.5; 52; 16Bet Cet ; 2.04; 4500;occ; 67; 0;38137
 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137
 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137
 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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 3; 2794.0; 16-JUN-2009 10:30:15; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38138
 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138
 10; 5572.7; 16-JUN-2009 11:16:34; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38138
 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140
 4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
 5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140
 7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140
 8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140
 9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140
 10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140
 11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
 12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
 13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
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 3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141
 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141
 6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141
 7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141
 8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141
 9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141
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 11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141
 12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141
 13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141
 14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141
 15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141
 16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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 3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142
 4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142
 5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142
 6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142
 7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142
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 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142
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 14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142
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 3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143
 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143
 5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143
 6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143
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 11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143
 12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143
 13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143
 14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143
 15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143
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 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147


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9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
10; 2153.3; 17-JUN-2009 01:24:58; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38147
11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
12; 2888.9; 17-JUN-2009 01:37:14; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38147
13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
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7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
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 4; 427.1; 18-JUN-2009 00:24:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38161
 5; 553.2; 18-JUN-2009 00:26:41; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38161
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 9; 2000.7; 18-JUN-2009 00:50:48; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38161
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 9; 555.7; 18-JUN-2009 03:47:55; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38163
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11; 1336.1; 18-JUN-2009 04:00:56; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38163
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13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
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 9; 556.9; 18-JUN-2009 05:28:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38164
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12; 1441.0; 18-JUN-2009 05:43:16; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38164
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14; 2148.8; 18-JUN-2009 05:55:04; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38164
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 7; 2876.6; 18-JUN-2009 21:12:36; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38173
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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
 6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174
 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
 8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174
 9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174
 10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174
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 12; 2876.2; 18-JUN-2009 22:53:11; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38174
 13; 3462.1; 18-JUN-2009 23:02:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38174
 14; 3862.2; 18-JUN-2009 23:09:37; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38174
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 4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175
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 4; 2880.3; 18-JUN-2009 07:47:52; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38165
 5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165
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 7; 2842.9; 20-JUN-2009 20:08:48; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38201
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5;-1616.5; 26-JUN-2009 04:00:35; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38277
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4; 588.9; 29-JUN-2009 21:29:04; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38331
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7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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