

GOMOS Daily Report 15-JUN-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	21JUN2007 07:51:16
Data source version	GOMOS/5.00
Start time of products	15-06-2007 (15JUN2007 00:00:00)
Stop time of products	16-06-2007 (16JUN2007 00:00:00)
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)

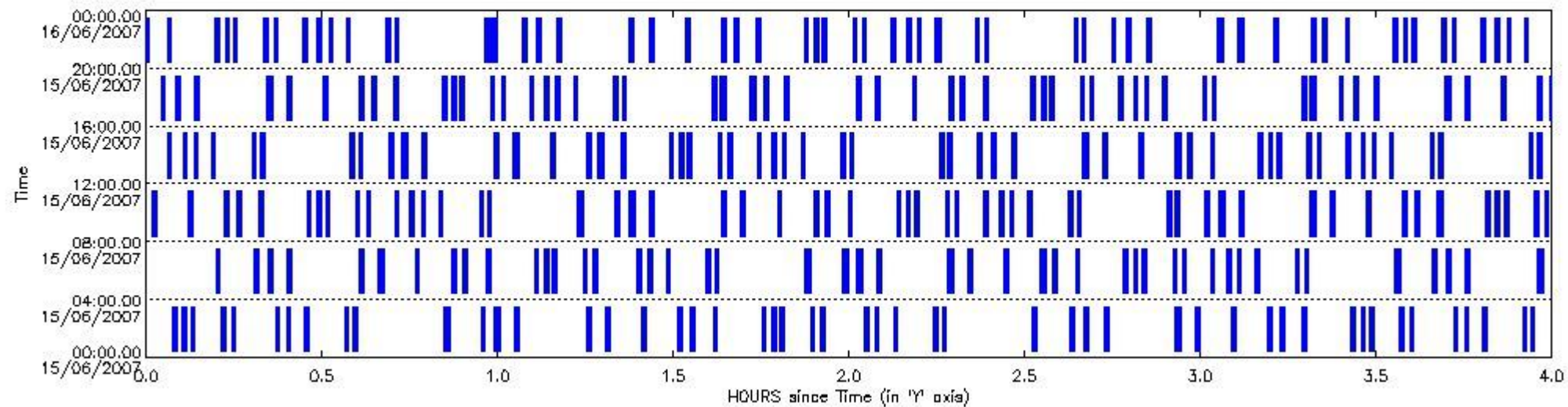
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

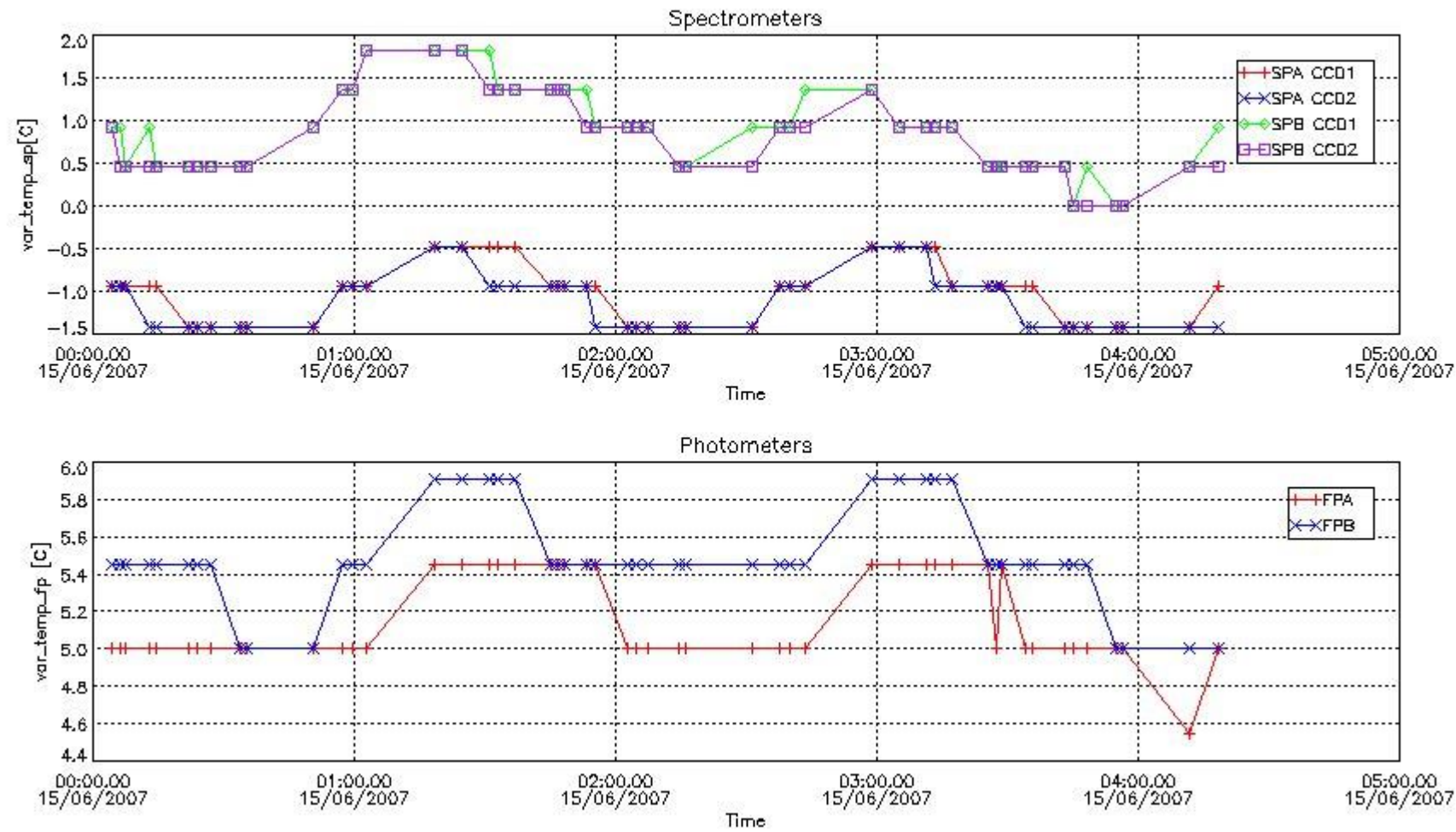
No missing products.

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_1PNPDE20070615_000427_000000432059_00045_27654_9077.N1	15-JUN-2007 00:04:27	Twilight	43.000	40	The Sco	1.8590	7100.0	86	27654	No
2	GOM_TRA_1PNPDE20070615_000610_000000432059_00045_27654_9078.N1	15-JUN-2007 00:06:10	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	27654	No
3	GOM_TRA_1PNPDE20070615_000733_000000472059_00045_27654_9079.N1	15-JUN-2007 00:07:33	Twilight	47.000	167	10Gam2Sgr	2.9840	4500.0	94	27654	No
4	GOM_TRA_1PNPDE20070615_001249_000000392059_00045_27654_9080.N1	15-JUN-2007 00:12:49	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27654	No
5	GOM_TRA_1PNPDE20070615_001433_000000372059_00045_27654_9081.N1	15-JUN-2007 00:14:33	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27654	No
6	GOM_TRA_1PNPDE20070615_002202_000000442059_00045_27654_9082.N1	15-JUN-2007 00:22:02	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	27654	No
7	GOM_TRA_1PNPDE20070615_002356_000000372059_00045_27654_9083.N1	15-JUN-2007 00:23:56	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27654	No
8	GOM_TRA_1PNPDE20070615_002700_000000392059_00045_27654_9084.N1	15-JUN-2007 00:27:00	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	27654	No
9	GOM_TRA_1PNPDE20070615_003352_000000382059_00045_27654_9085.N1	15-JUN-2007 00:33:52	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27654	No
10	GOM_TRA_1PNPDE20070615_003521_000000472059_00045_27654_9086.N1	15-JUN-2007 00:35:21	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	27654	No
11	GOM_TRA_1PNPDE20070615_005041_000000642059_00045_27654_9087.N1	15-JUN-2007 00:50:41	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	27654	No
12	GOM_TRA_1PNPDE20070615_005706_000000392059_00045_27654_9088.N1	15-JUN-2007 00:57:06	Bright	39.000	73	57Gam1And	2.2600	13100.	78	27654	No

13	GOM_TRA_1PNPDE20070615_005927_000000552059_00045_27654_9089.N1	15-JUN-2007 00:59:27	Twilight	55.000	53	43Bet And	2.0480	3300.0	110	27654	No
14	GOM_TRA_1PNPDE20070615_010254_000000502059_00045_27654_9090.N1	15-JUN-2007 01:02:54	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	27654	No
15	GOM_TRA_1PNPDE20070615_011822_000000552059_00045_27654_9215.N1	15-JUN-2007 01:18:22	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	27654	No
16	GOM_TRA_1PNPDE20070615_012439_000000462059_00045_27654_9216.N1	15-JUN-2007 01:24:39	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	27654	No
17	GOM_TRA_1PNPDE20070615_013049_000000472059_00046_27655_9217.N1	15-JUN-2007 01:30:49	Dark	46.500	63	Bet Gru	2.1500	2800.0	93	27655	No
18	GOM_TRA_1PNPDE20070615_013252_000000492059_00046_27655_9218.N1	15-JUN-2007 01:32:52	Dark	49.000	31	Alp Gru	1.7340	15200.	98	27655	No
19	GOM_TRA_1PNPDE20070615_013649_000000402059_00046_27655_9219.N1	15-JUN-2007 01:36:49	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27655	No
20	GOM_TRA_1PNPDE20070615_014503_000000452059_00046_27655_9220.N1	15-JUN-2007 01:45:03	Twilight	45.000	40	The Sco	1.8590	7100.0	90	27655	No
21	GOM_TRA_1PNPDE20070615_014646_000000432059_00046_27655_9221.N1	15-JUN-2007 01:46:46	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	27655	No
22	GOM_TRA_1PNPDE20070615_014809_000000482059_00046_27655_9222.N1	15-JUN-2007 01:48:09	Twilight	48.000	167	10Gam2Sgr	2.9840	4500.0	96	27655	No
23	GOM_TRA_1PNPDE20070615_015325_000000392059_00046_27655_9223.N1	15-JUN-2007 01:53:25	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	27655	No
24	GOM_TRA_1PNPDE20070615_015509_000000362059_00046_27655_9224.N1	15-JUN-2007 01:55:09	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27655	No
25	GOM_TRA_1PNPDE20070615_020237_000000422059_00046_27655_9225.N1	15-JUN-2007 02:02:37	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	27655	No
26	GOM_TRA_1PNPDE20070615_020432_000000362059_00046_27655_9226.N1	15-JUN-2007 02:04:32	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27655	No
27	GOM_TRA_1PNPDE20070615_020735_000000362059_00046_27655_9227.N1	15-JUN-2007 02:07:35	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27655	No
28	GOM_TRA_1PNPDE20070615_021428_000000392059_00046_27655_9228.N1	15-JUN-2007 02:14:28	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	27655	No
29	GOM_TRA_1PNPDE20070615_021557_000000352059_00046_27655_9229.N1	15-JUN-2007 02:15:57	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	27655	No
30	GOM_TRA_1PNPDE20070615_023117_000000472059_00046_27655_9377.N1	15-JUN-2007 02:31:17	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	27655	No
31	GOM_TRA_1PNPDE20070615_023742_000000402059_00046_27655_9378.N1	15-JUN-2007 02:37:42	Bright	40.000	73	57Gam1And	2.2600	13100.	80	27655	No
32	GOM_TRA_1PNPDE20070615_024004_000000562059_00046_27655_9379.N1	15-JUN-2007 02:40:04	Twilight	56.000	53	43Bet And	2.0480	3300.0	112	27655	No
33	GOM_TRA_1PNPDE20070615_024330_000000472059_00046_27655_9380.N1	15-JUN-2007 02:43:30	Twilight	46.500	50	13Alp Ari	2.0070	4250.0	93	27655	No
34	GOM_TRA_1PNPDE20070615_025859_000000542059_00046_27655_9381.N1	15-JUN-2007 02:58:59	Dark	53.500	52	16Bet Cet	2.0370	4500.0	107	27655	No
35	GOM_TRA_1PNPDE20070615_030516_000000442059_00046_27655_9382.N1	15-JUN-2007 03:05:16	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27655	No
36	GOM_TRA_1PNPDE20070615_031126_000000522059_00047_27656_9383.N1	15-JUN-2007 03:11:26	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	27656	No
37	GOM_TRA_1PNPDE20070615_031329_000000472059_00047_27656_9384.N1	15-JUN-2007 03:13:29	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27656	No
38	GOM_TRA_1PNPDE20070615_031725_000000432059_00047_27656_9385.N1	15-JUN-2007 03:17:25	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	27656	No
39	GOM_TRA_1PNPDE20070615_032539_000000452059_00047_27656_9386.N1	15-JUN-2007 03:25:39	Twilight	45.000	40	The Sco	1.8590	7100.0	90	27656	No
40	GOM_TRA_1PNPDE20070615_032722_000000422059_00047_27656_9387.N1	15-JUN-2007 03:27:22	Twilight	41.500	25	35Lam Sco	1.6200	28000.	83	27656	No
41	GOM_TRA_1PNPDE20070615_032845_000000462059_00047_27656_9388.N1	15-JUN-2007 03:28:45	Twilight	45.500	167	10Gam2Sgr	2.9840	4500.0	91	27656	No
42	GOM_TRA_1PNPDE20070615_033401_000000402059_00047_27656_9389.N1	15-JUN-2007 03:34:01	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	27656	No
43	GOM_TRA_1PNPDE20070615_033545_000000372059_00047_27656_9390.N1	15-JUN-2007 03:35:45	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	27656	No
44	GOM_TRA_1PNPDE20070615_034313_000000432059_00047_27656_9391.N1	15-JUN-2007 03:43:13	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	27656	No
45	GOM_TRA_1PNPDE20070615_034507_000000362059_00047_27656_9392.N1	15-JUN-2007 03:45:07	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27656	No
46	GOM_TRA_1PNPDE20070615_034811_000000382059_00047_27656_9393.N1	15-JUN-2007 03:48:11	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	27656	No
47	GOM_TRA_1PNPDE20070615_035504_000000372059_00047_27656_9394.N1	15-JUN-2007 03:55:04	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27656	No
48	GOM_TRA_1PNPDE20070615_035633_000000332059_00047_27656_9395.N1	15-JUN-2007 03:56:33	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	27656	No
49	GOM_TRA_1PNPDE20070615_041153_000000432059_00047_27656_9517.N1	15-JUN-2007 04:11:53	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	27656	No
50	GOM_TRA_1PNPDE20070615_041819_000000562059_00047_27656_9518.N1	15-JUN-2007 04:18:19	Bright	56.000	73	57Gam1And	2.2600	13100.	112	27656	No

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



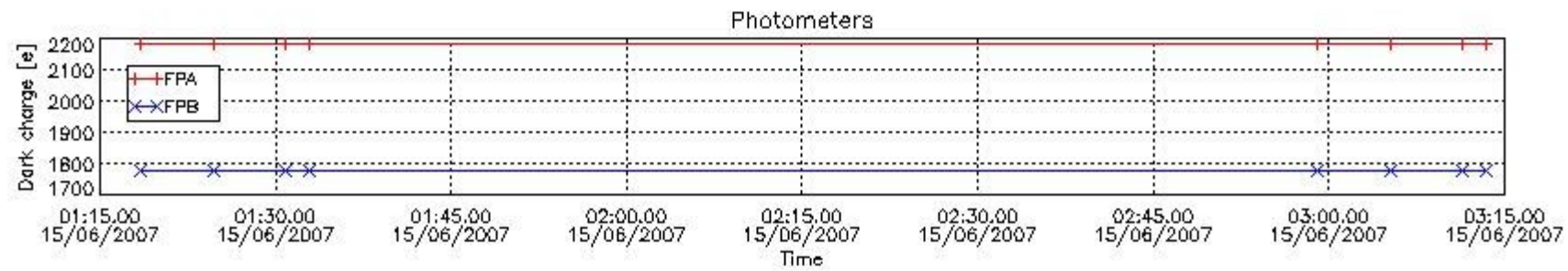
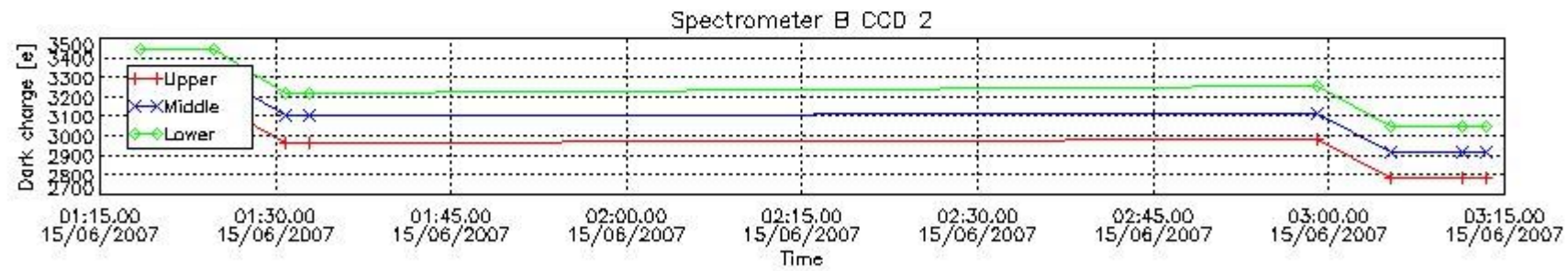
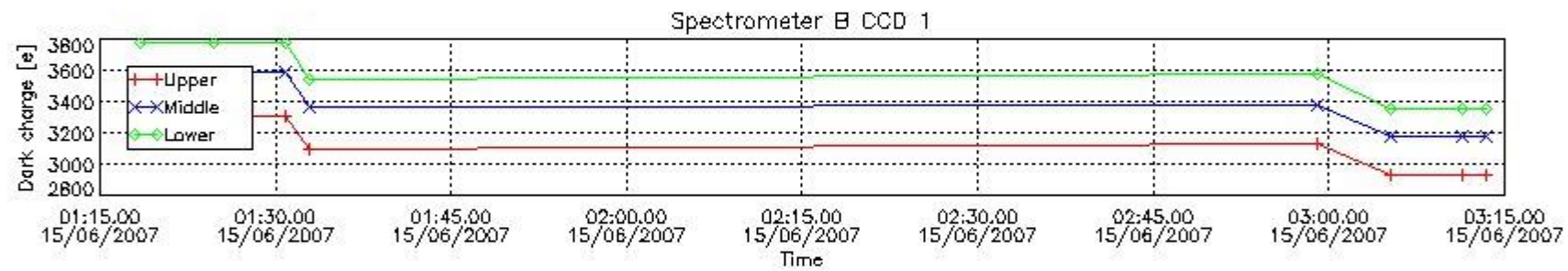
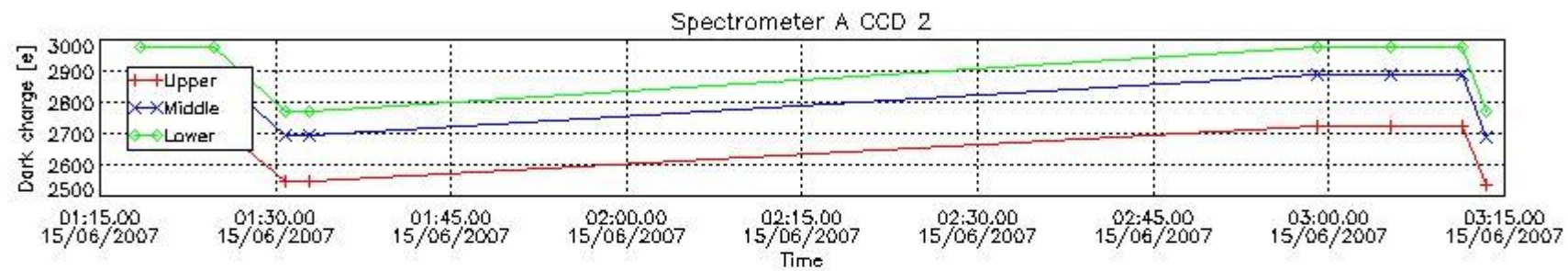
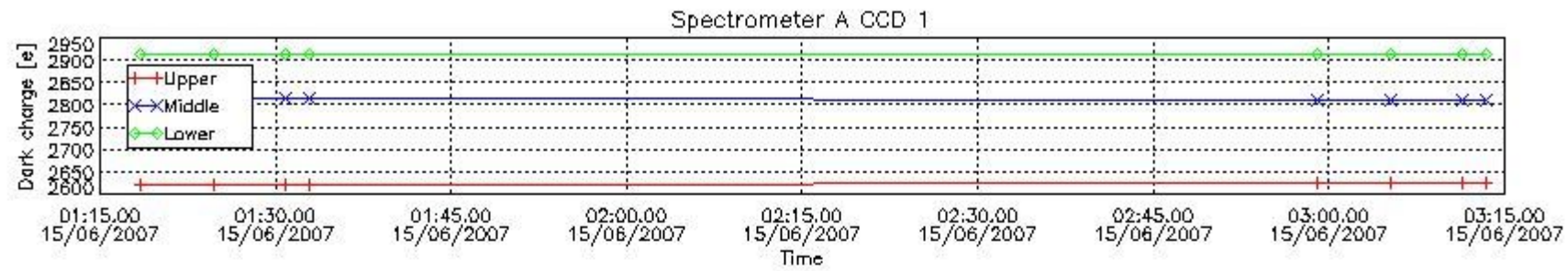
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



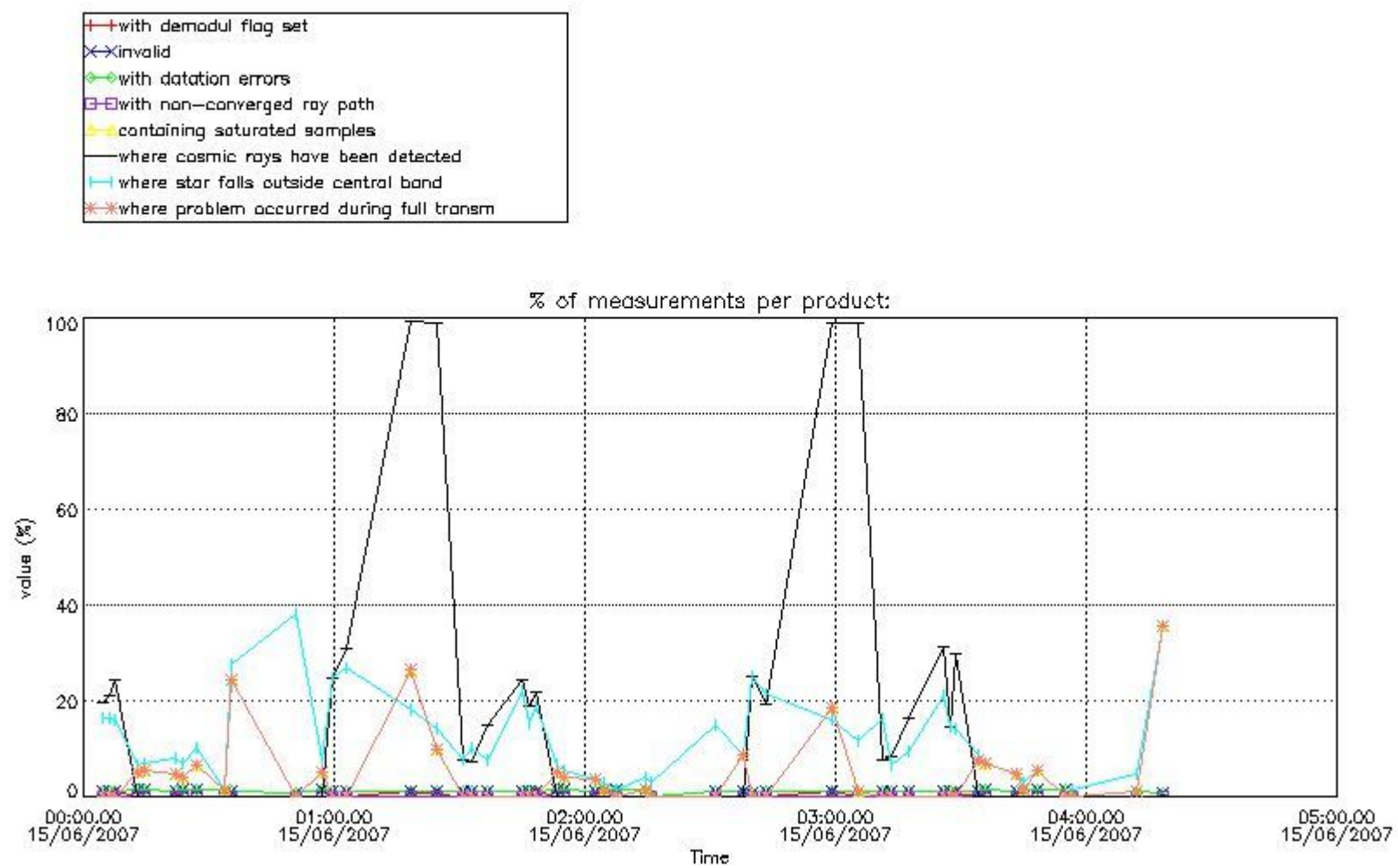
5. Demodulation flag and quality information monitoring

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.

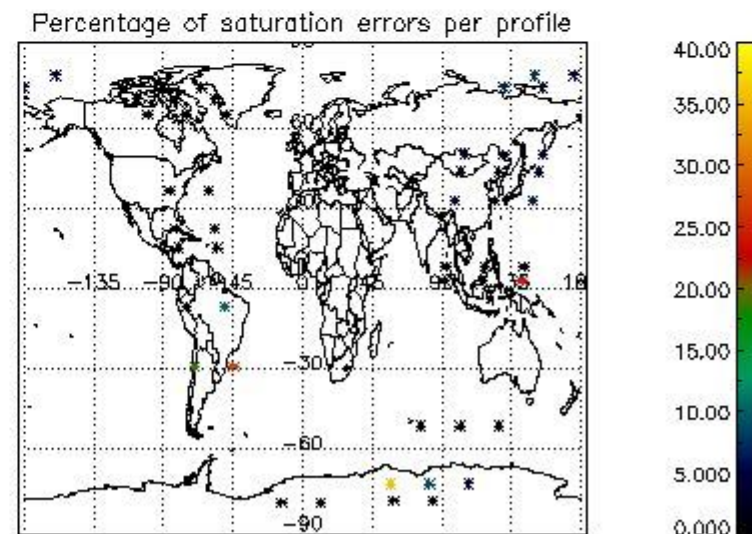
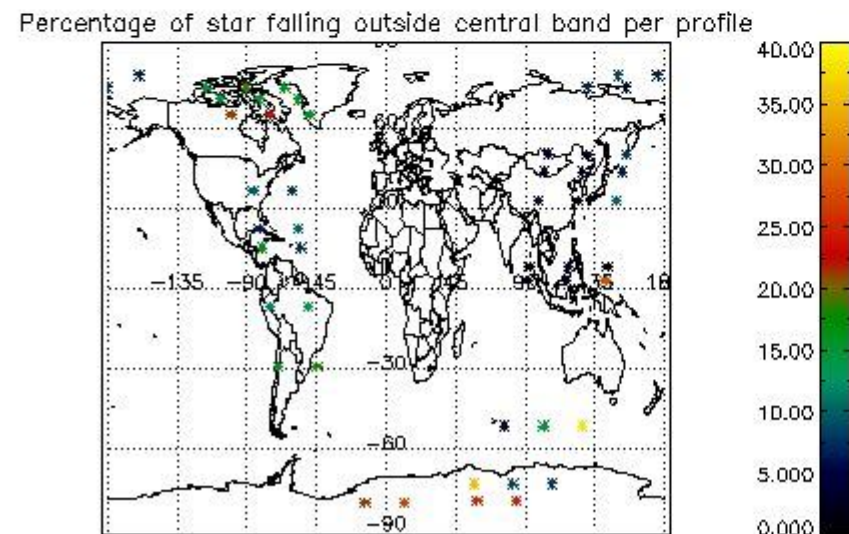
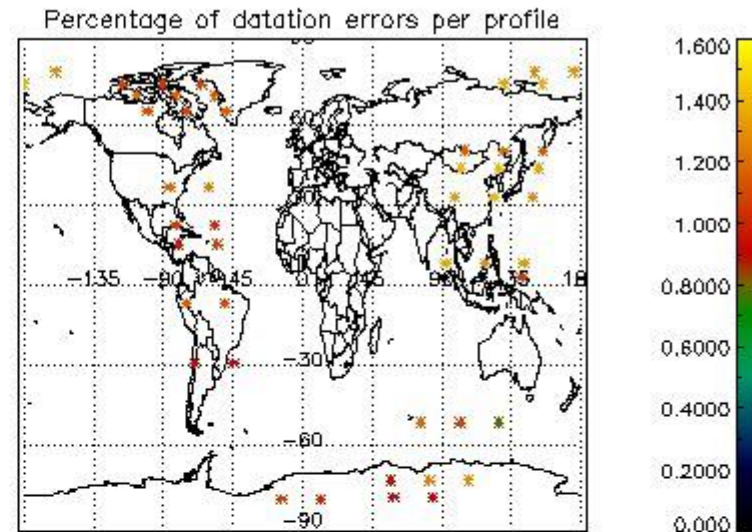
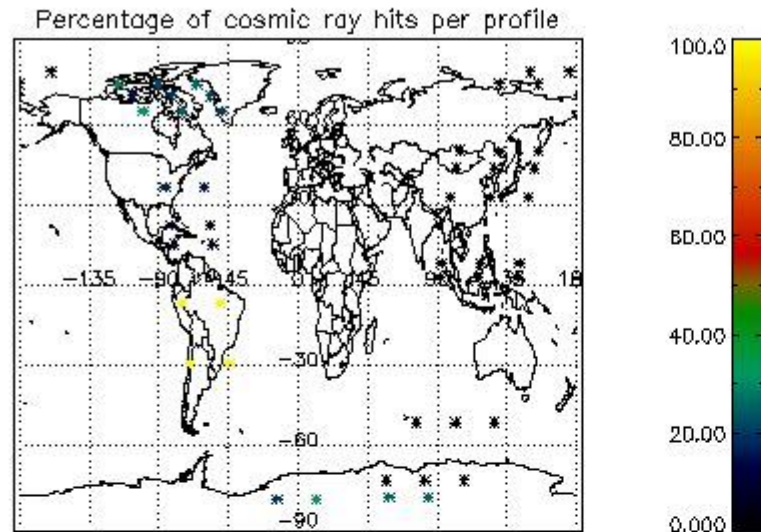
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



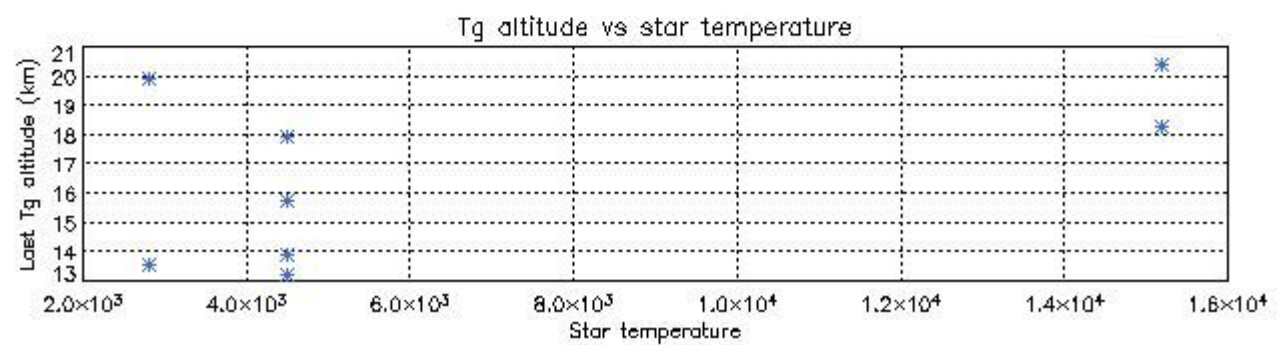
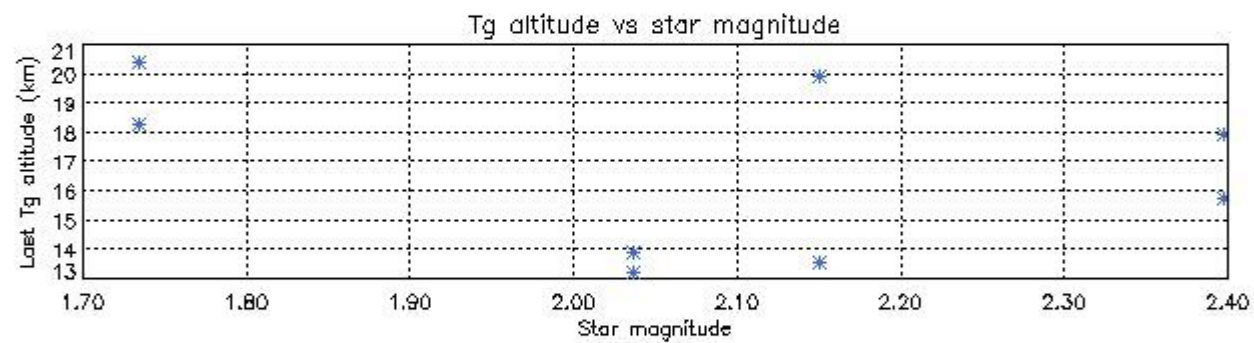
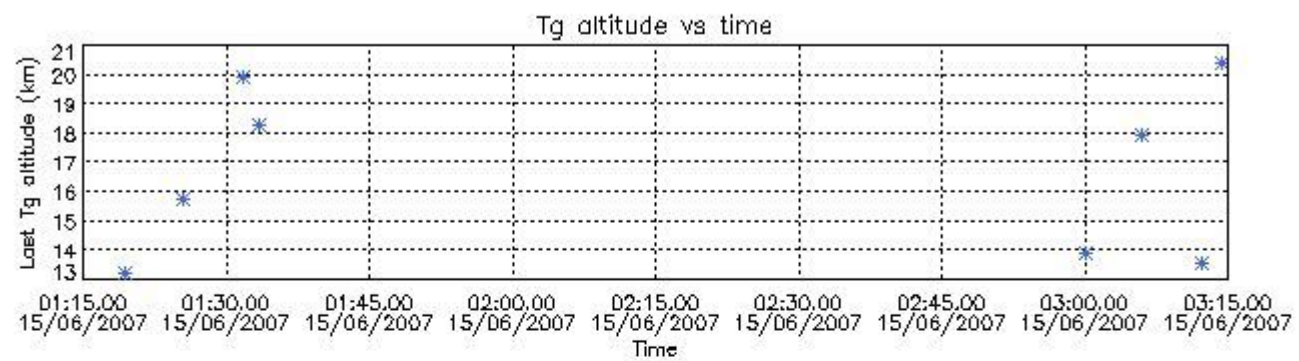
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.611	20.116	10.266
St. deviation:	2.9020	5.9868	1.7216
Maximum:	20.412	28.990	11.483
Minimum:	13.187	3.7262	9.0485
Number of data:	8.0000	27.000	2.0000

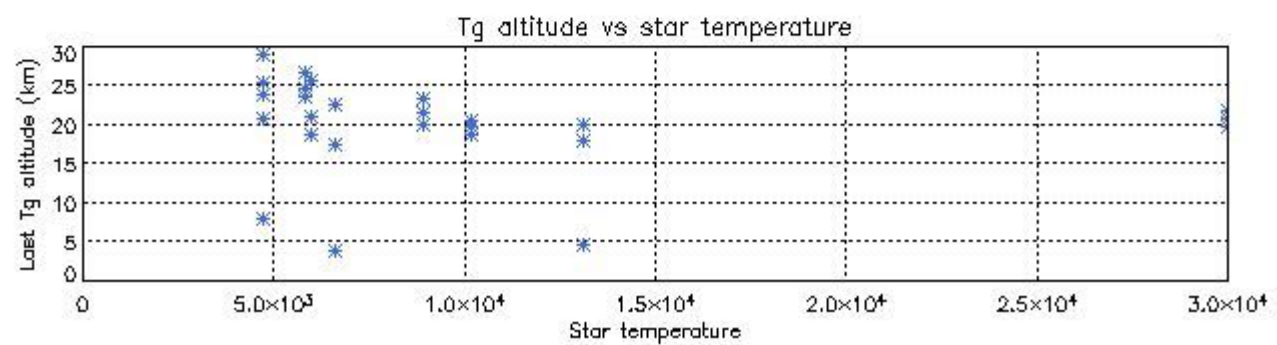
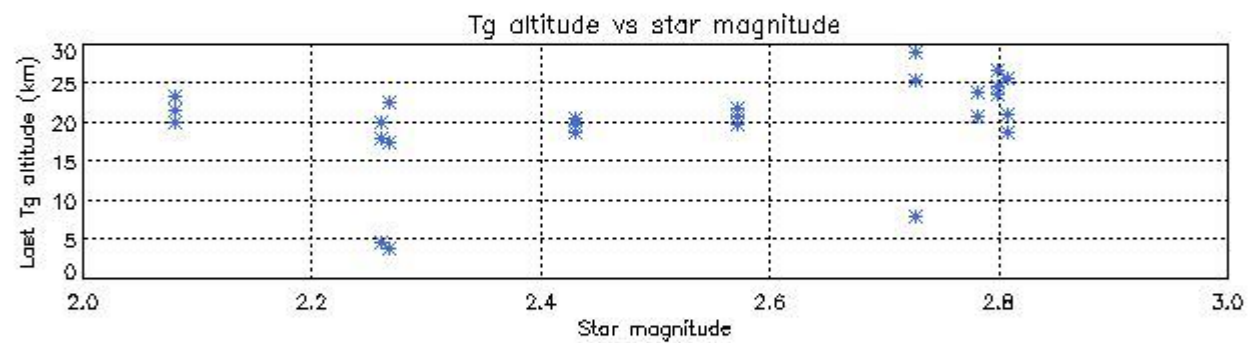
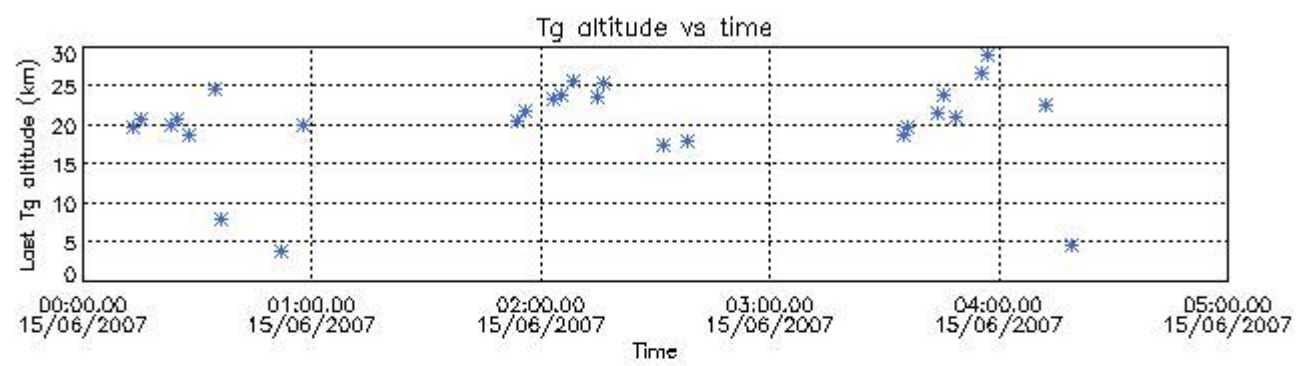
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



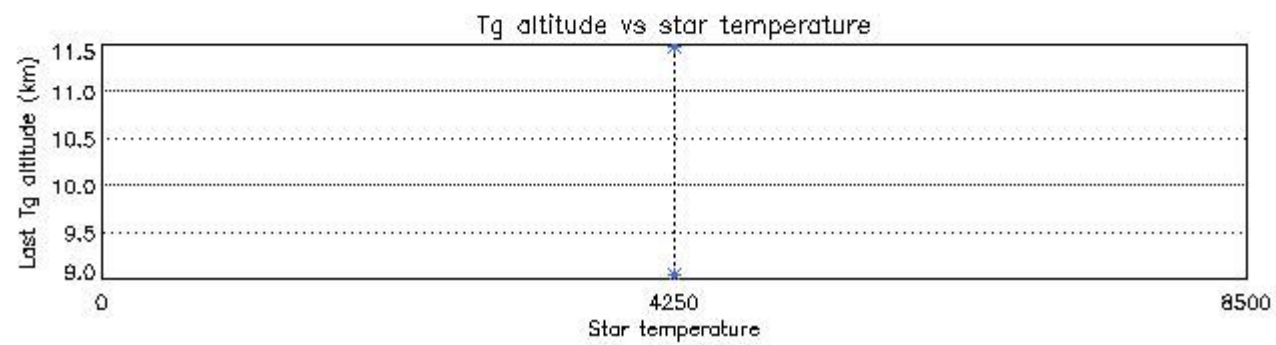
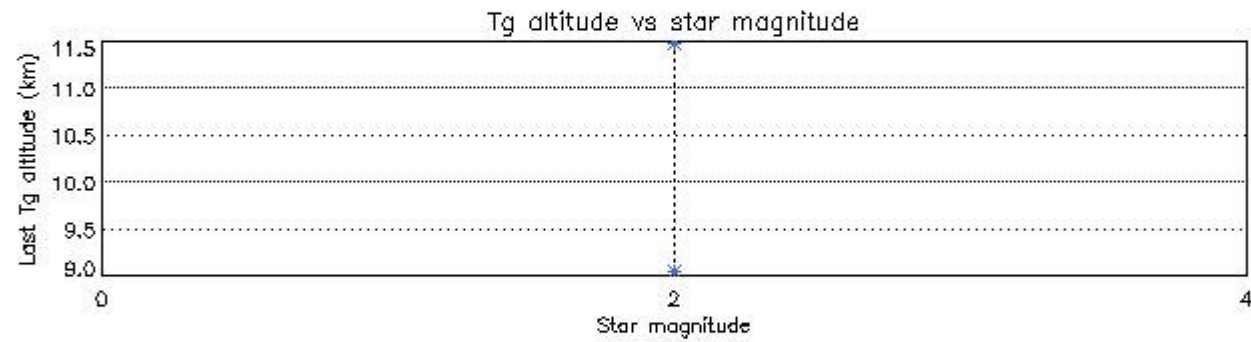
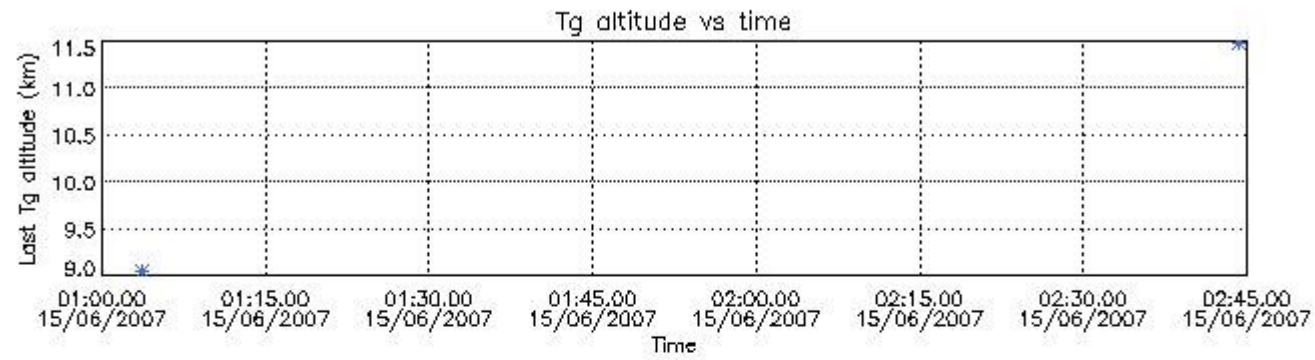
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

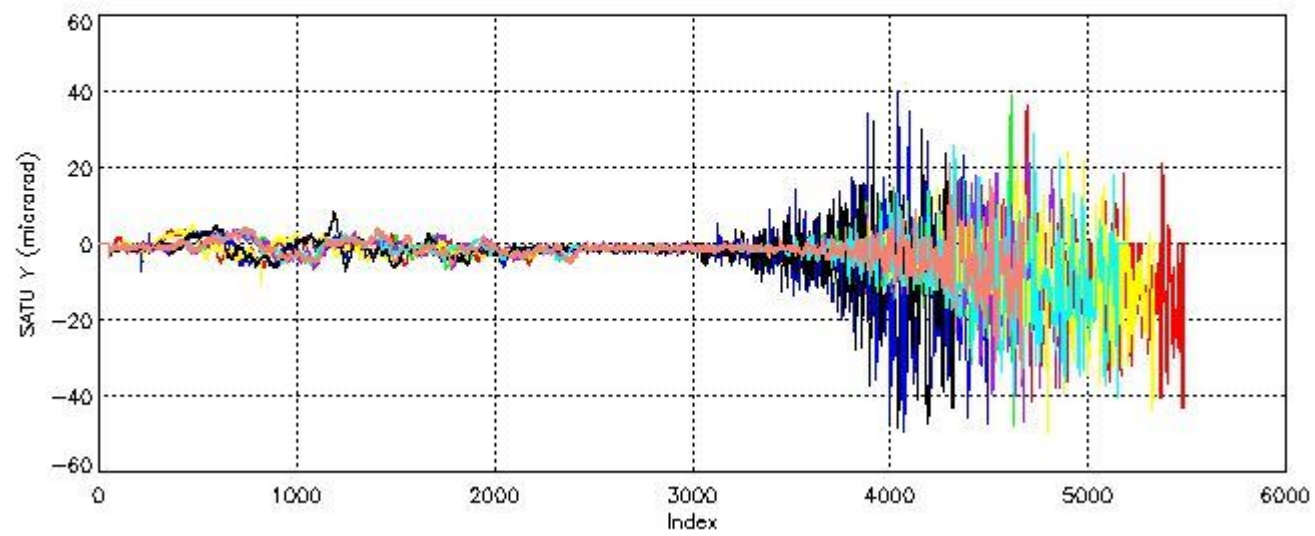
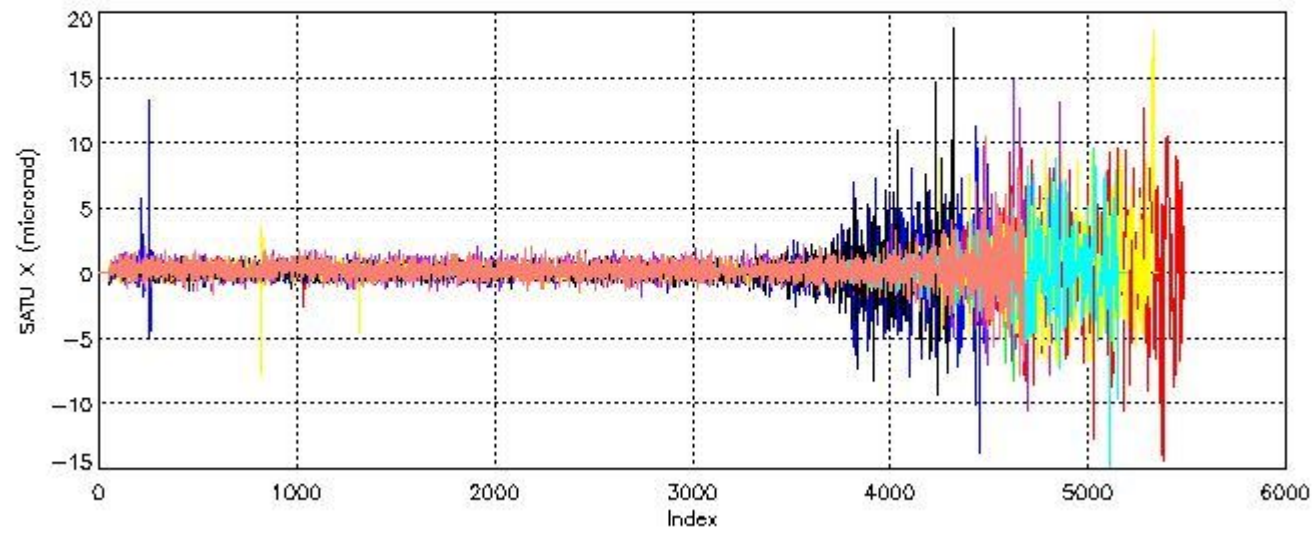


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22873	-0.76149	0.20160	-0.97859
St. deviation:	0.39011	2.1067	0.76598	2.6151
Maximum:	13.200	4.9000	3.7000	7.7000
Minimum:	-7.8000	-10.600	-3.5000	-8.7000

Number of data:	9150.0	9150.0	23900.	23900.
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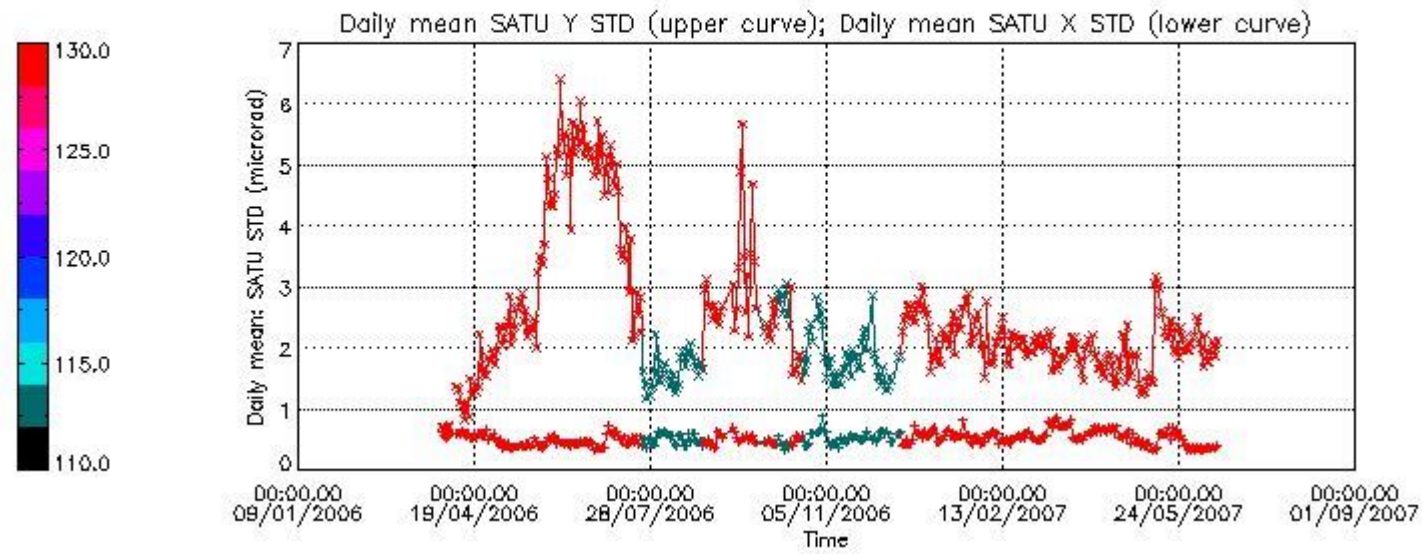
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

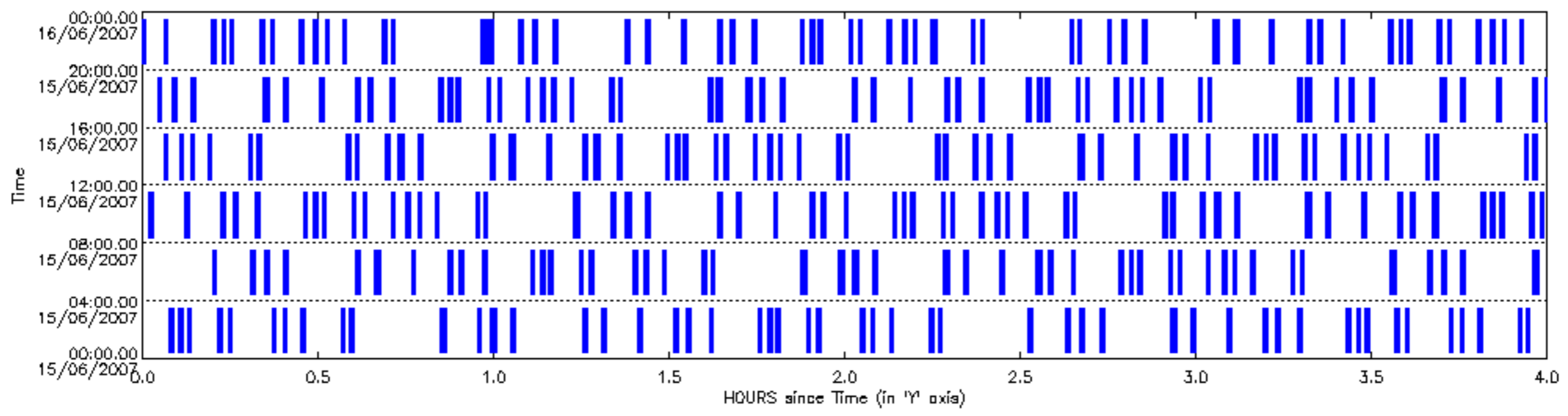
Lower curve: STD of SATU X axis

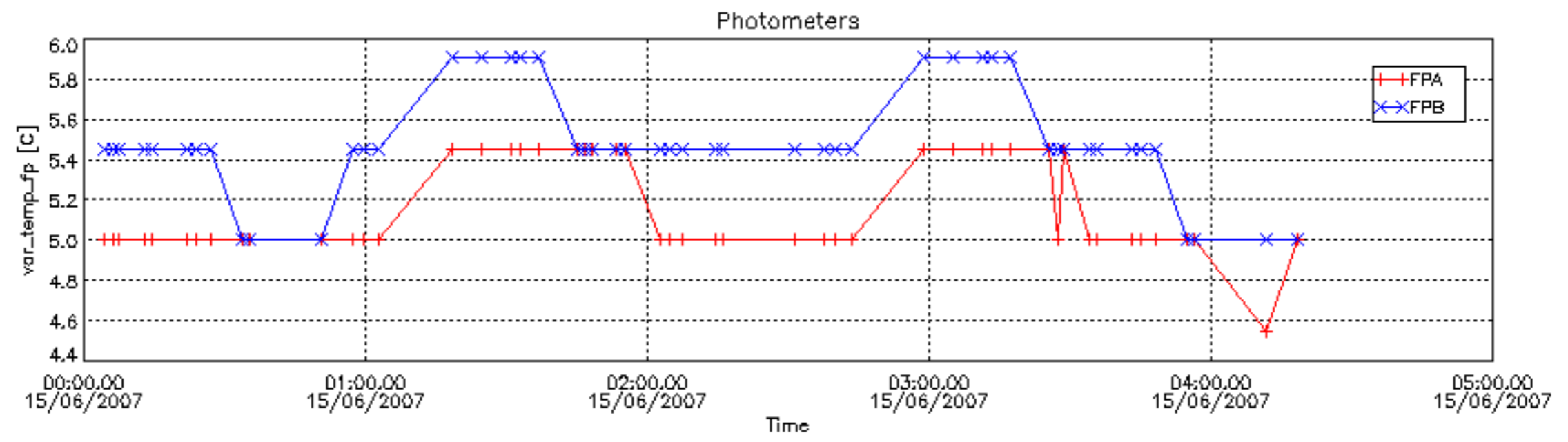
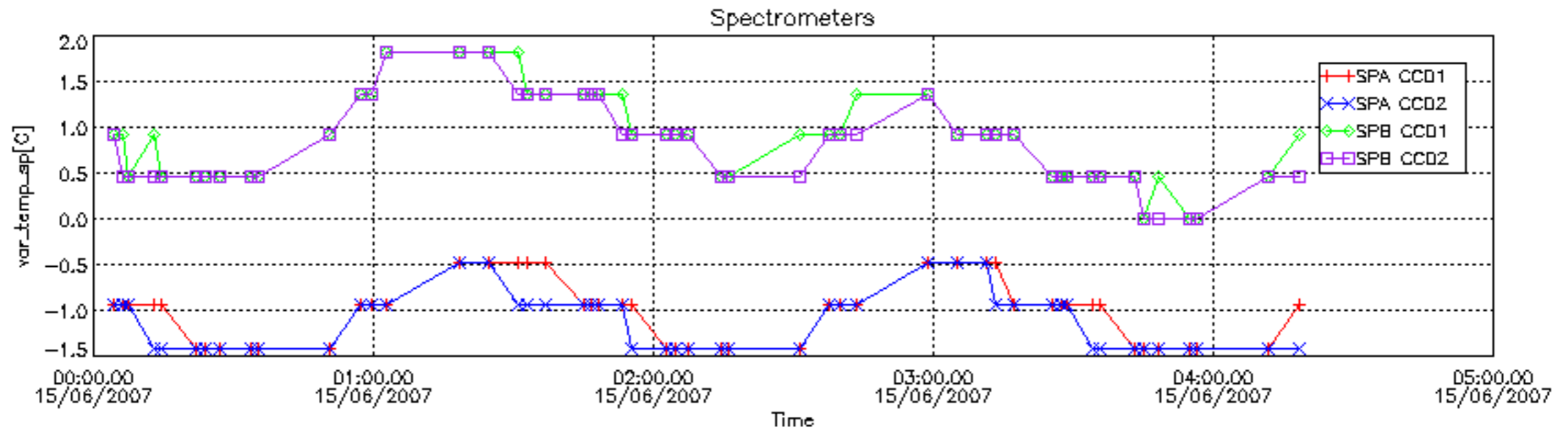


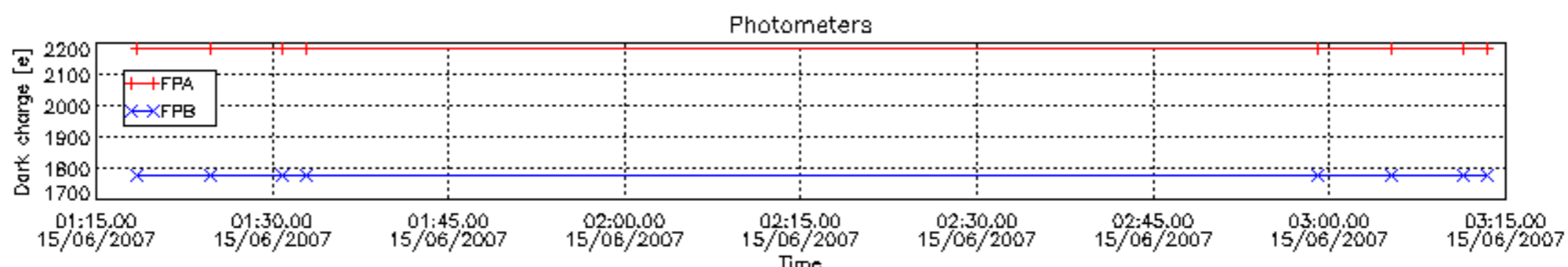
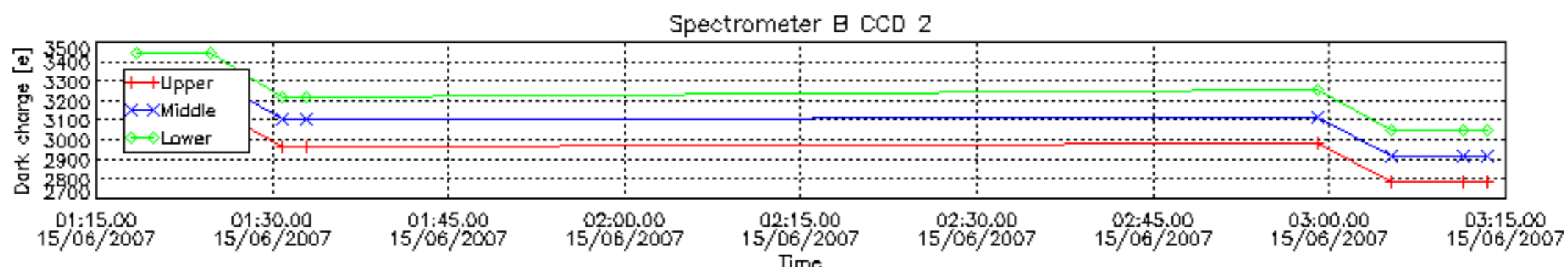
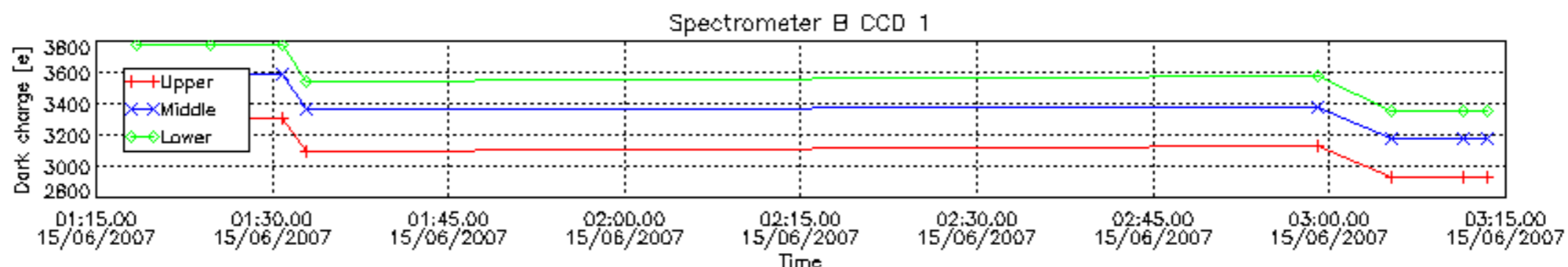
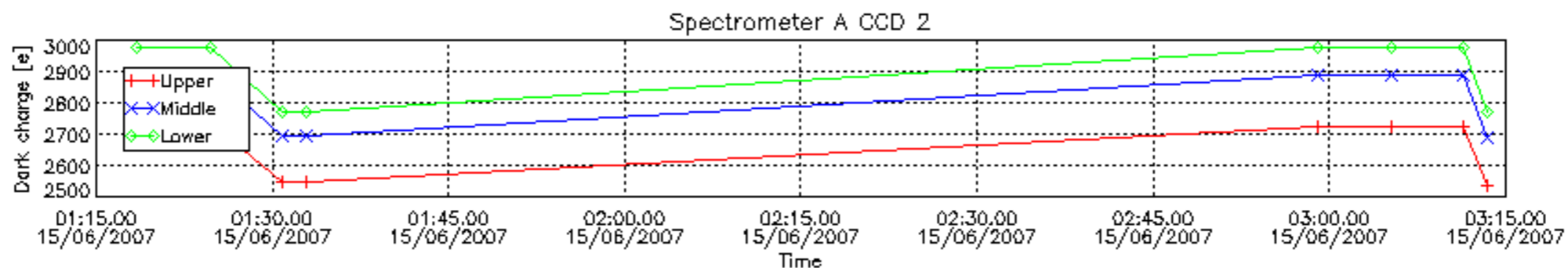
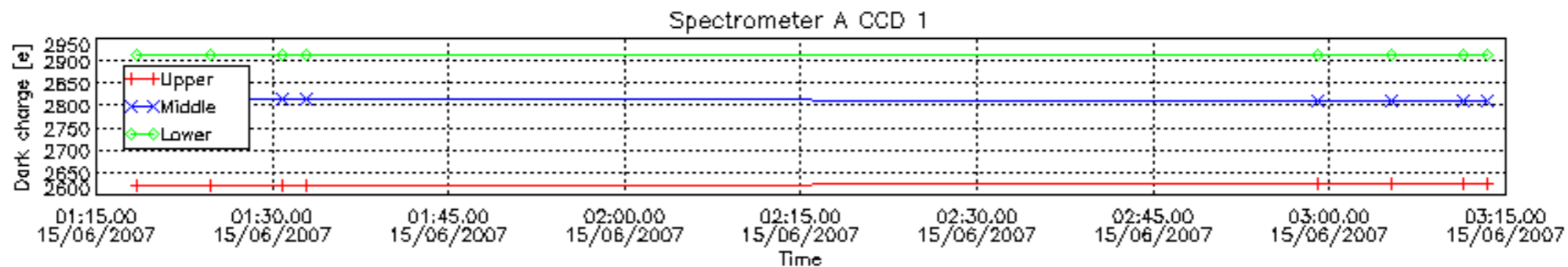
8. Auxiliary Data Files used for the production reported in section 2.4

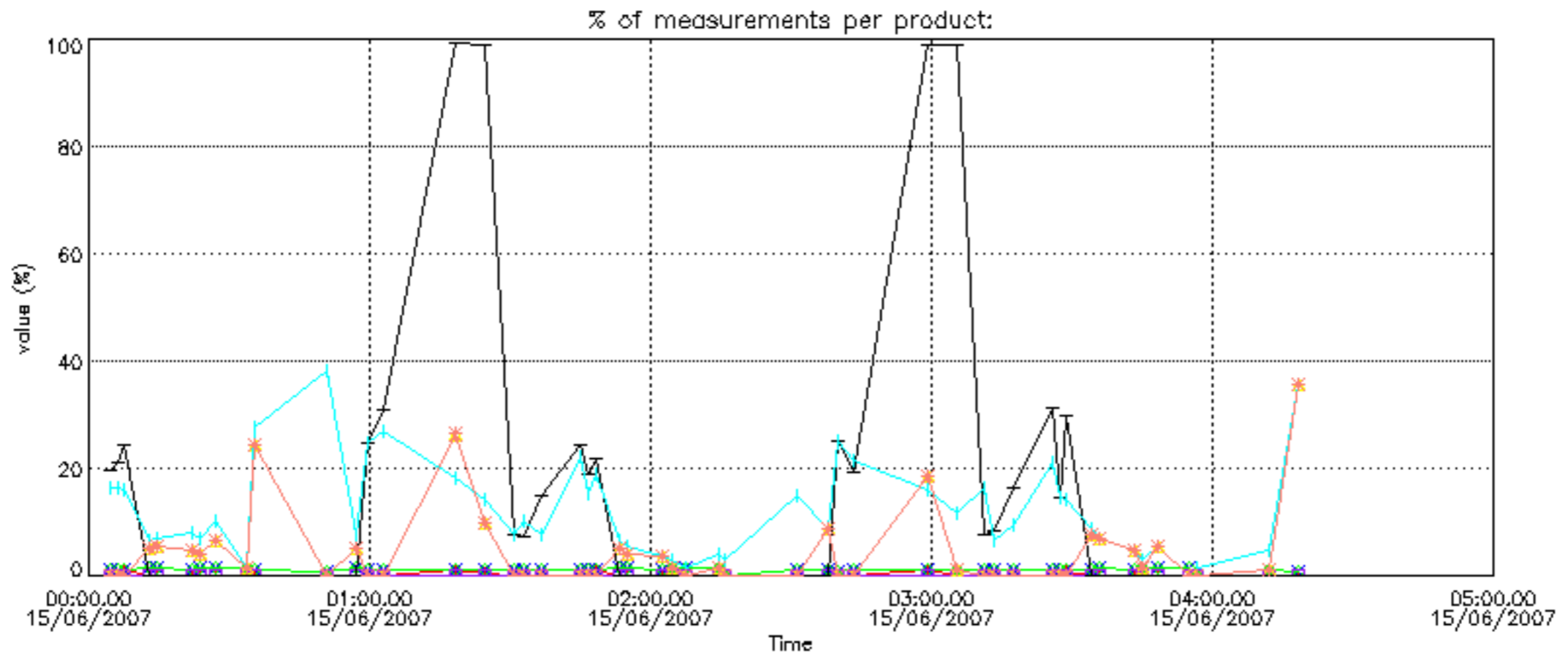
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-JUN-2007 00:04:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	15-JUN-2007 00:04:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-JUN-2007 00:04:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JUN-2007 00:04:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-JUN-2007 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20070614_061113_20070614_210000_20070615_090000	1	15-JUN-2007 00:04:27
OPTIONAL_ECMWF_FILE	MISSING	1	15-JUN-2007 00:04:27
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20070614_065111_20070613_191546_20070623_204201	1	15-JUN-2007 00:04:27

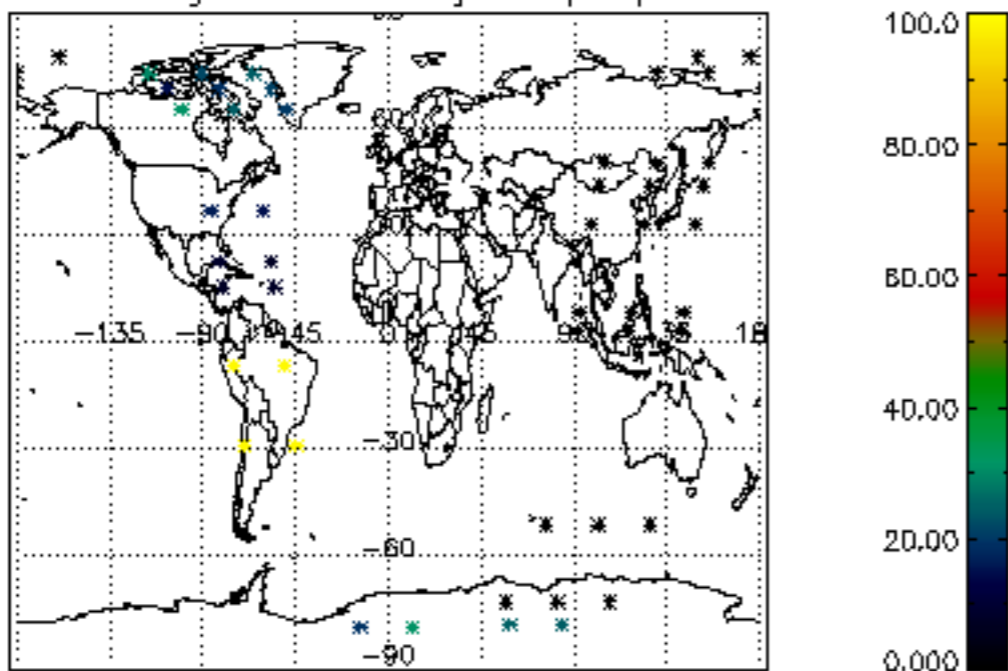




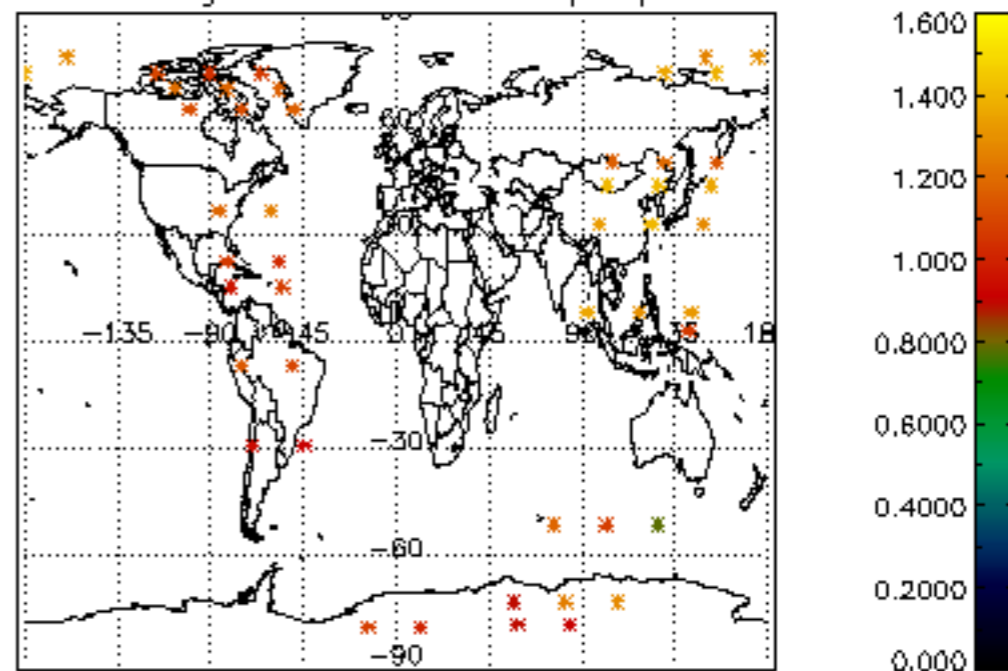




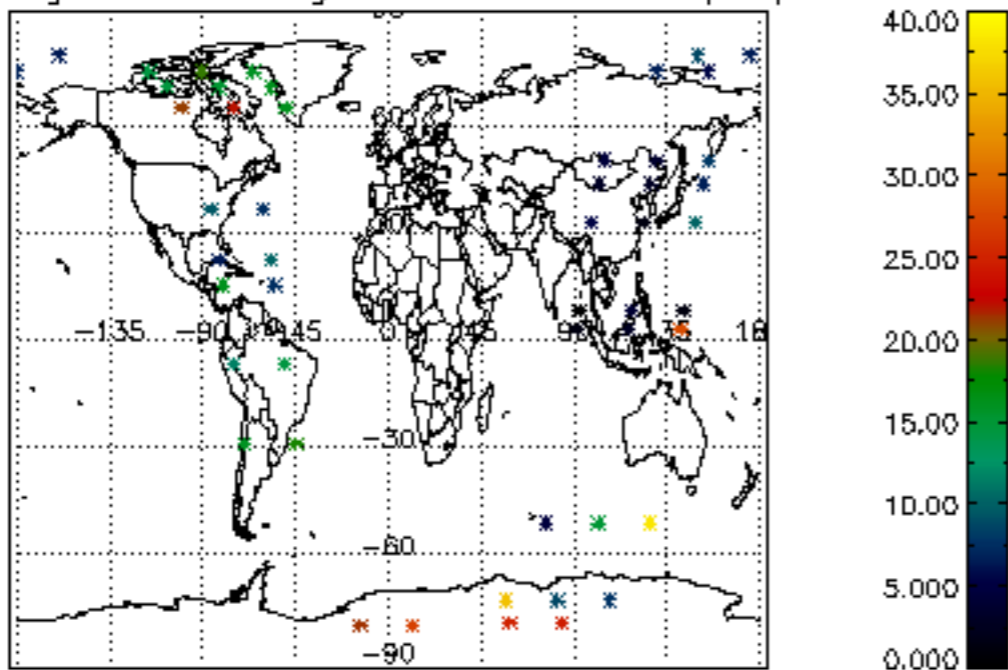
Percentage of cosmic ray hits per profile



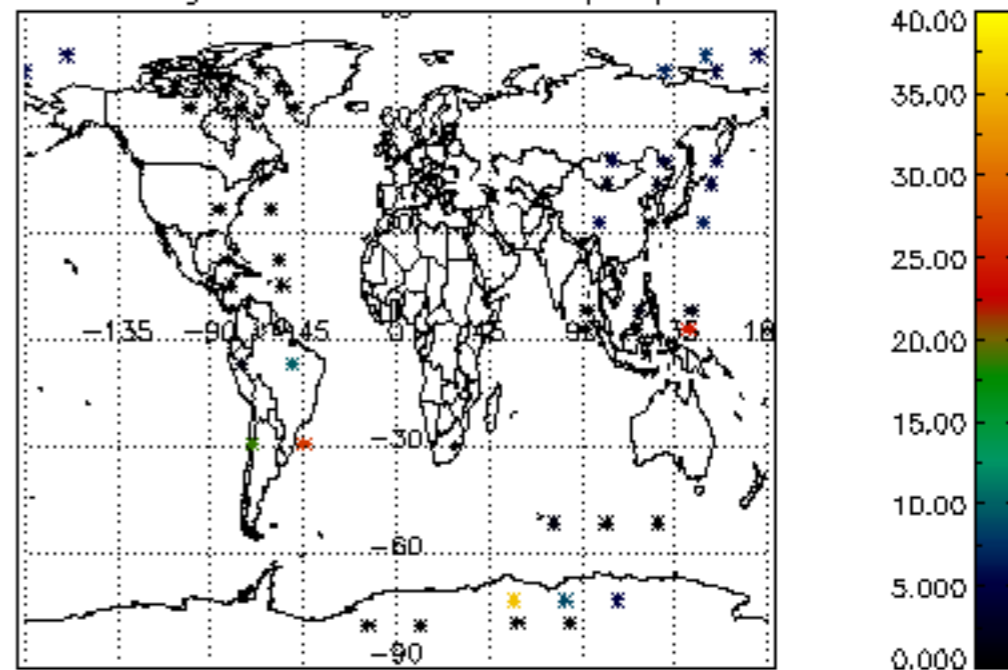
Percentage of datation errors per profile



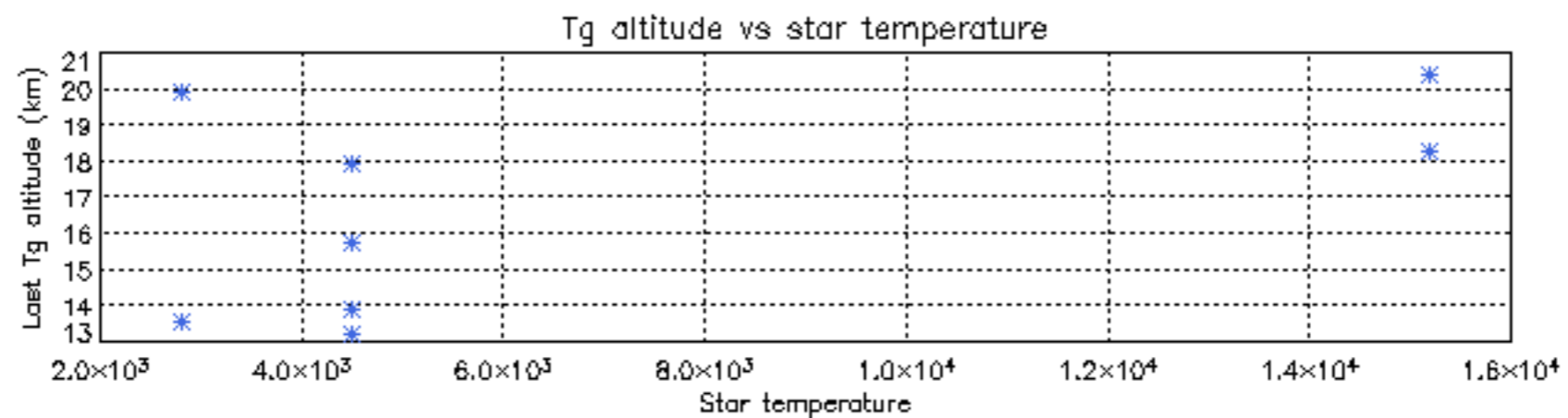
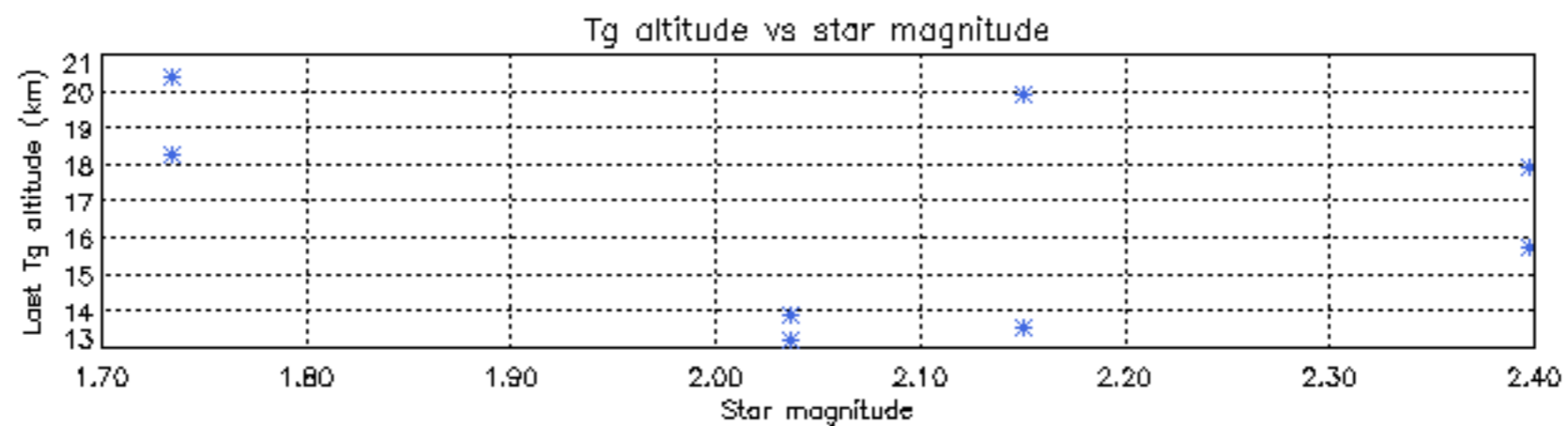
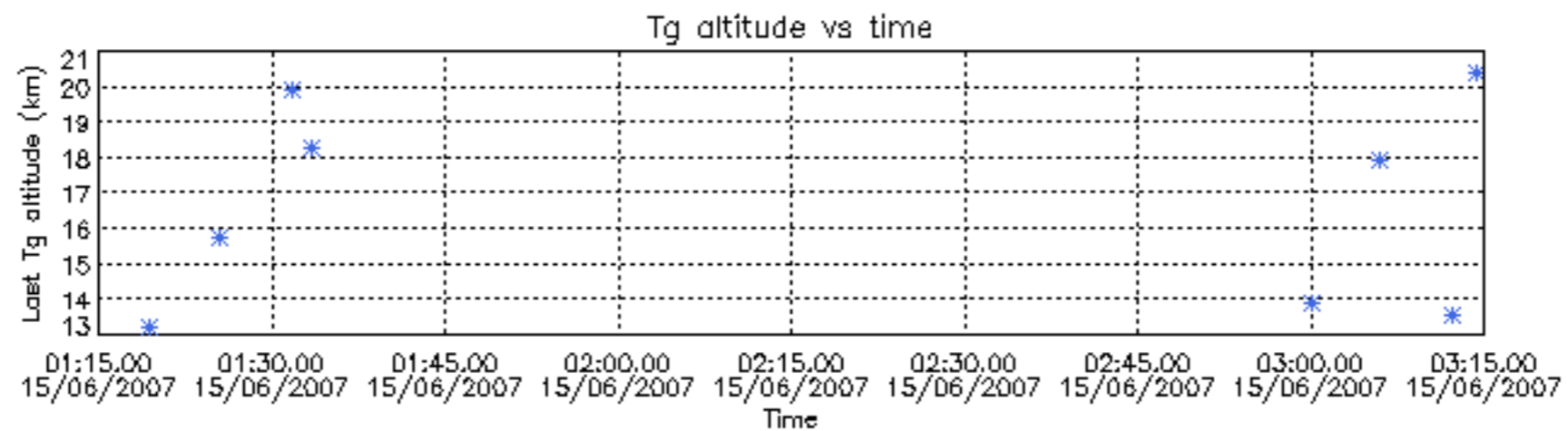
Percentage of star falling outside central band per profile



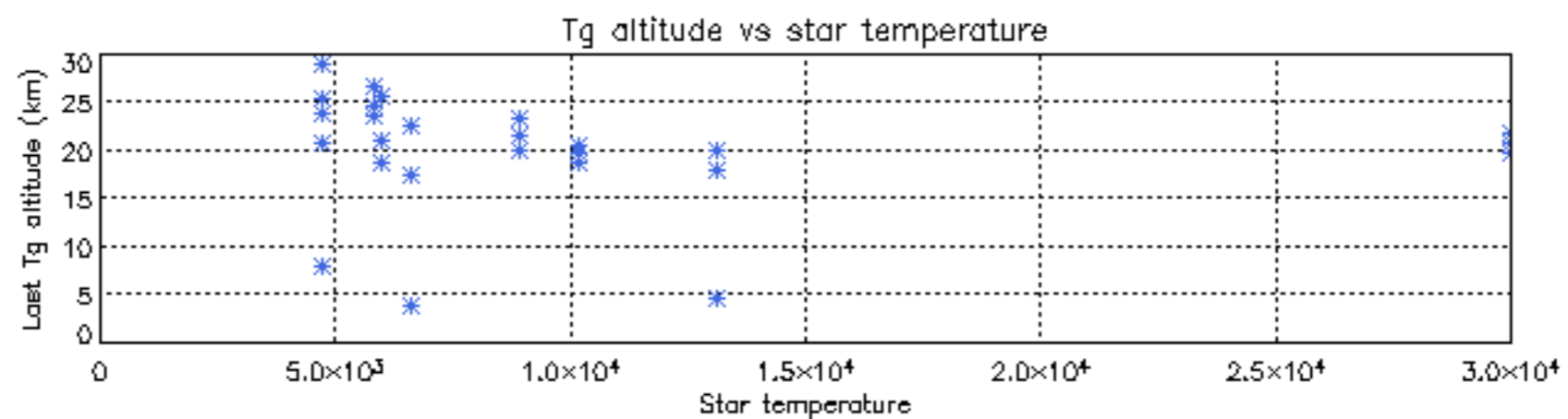
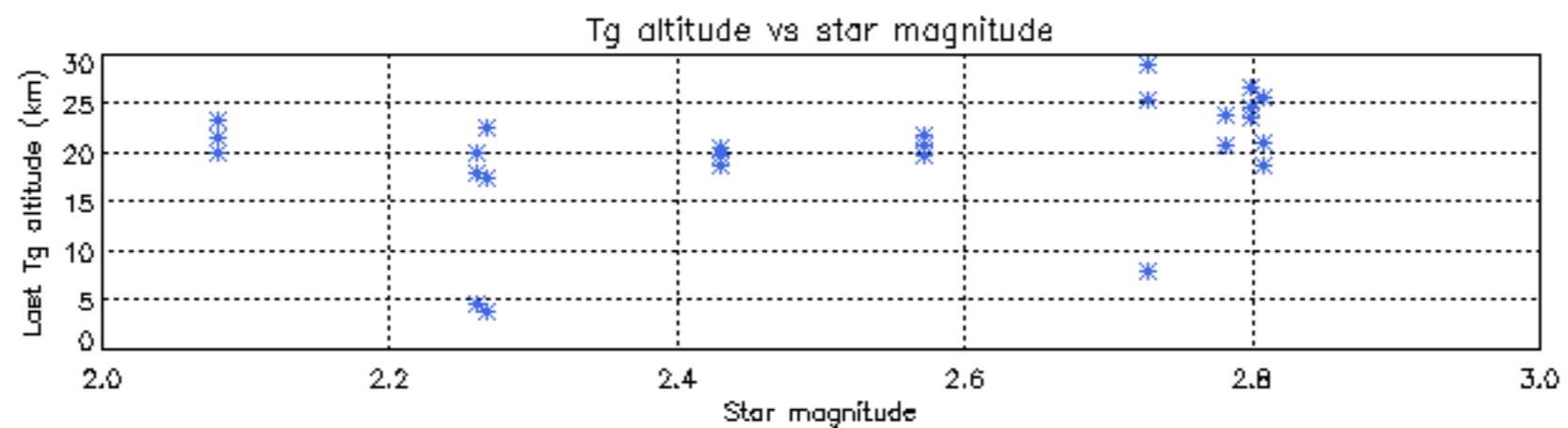
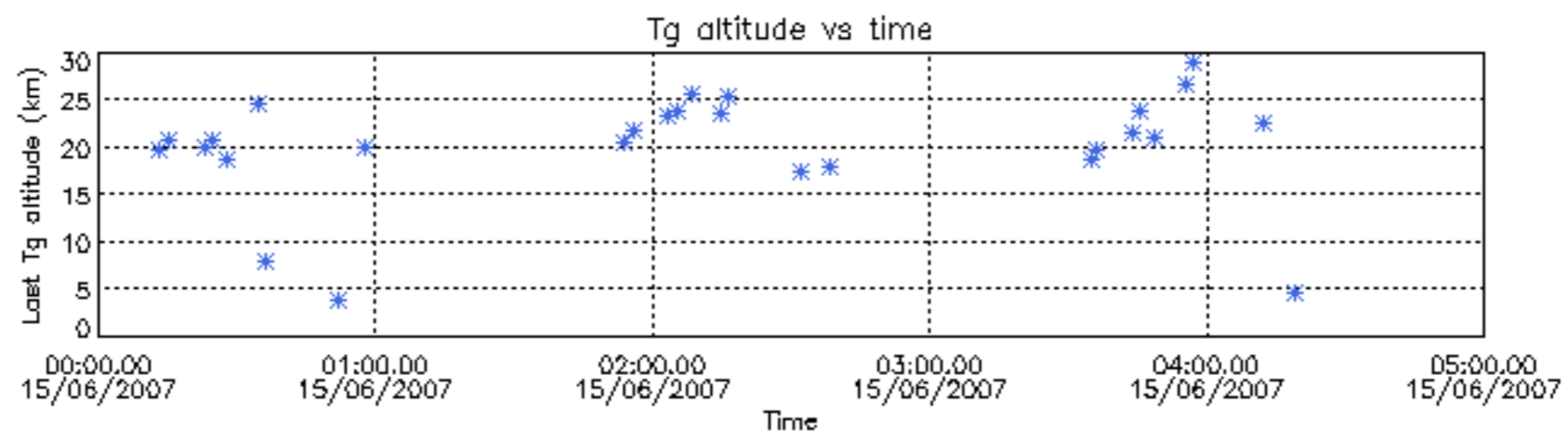
Percentage of saturation errors per profile



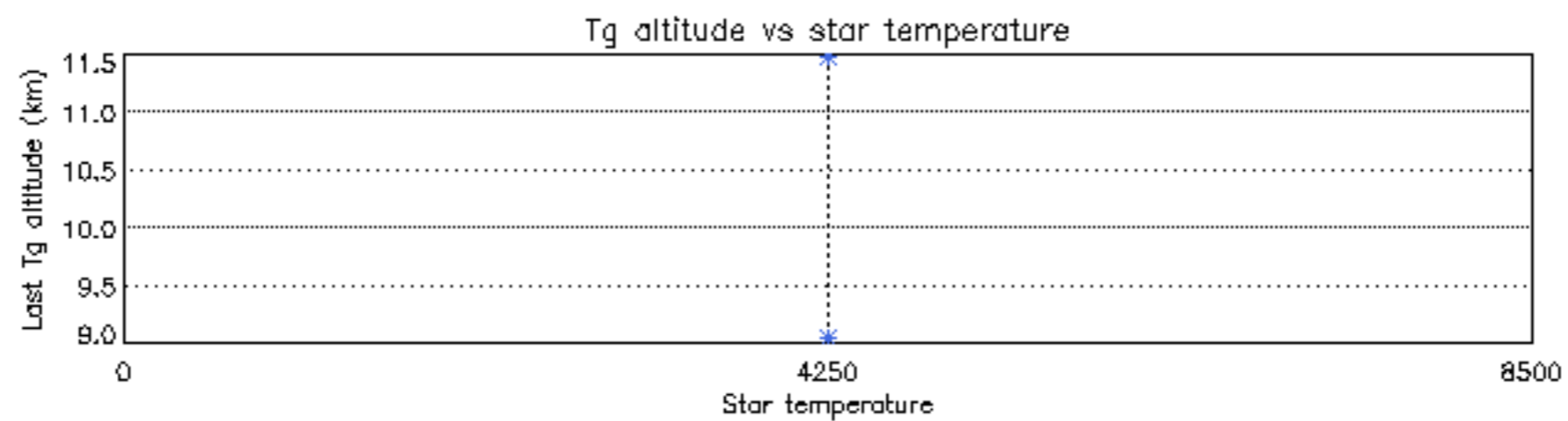
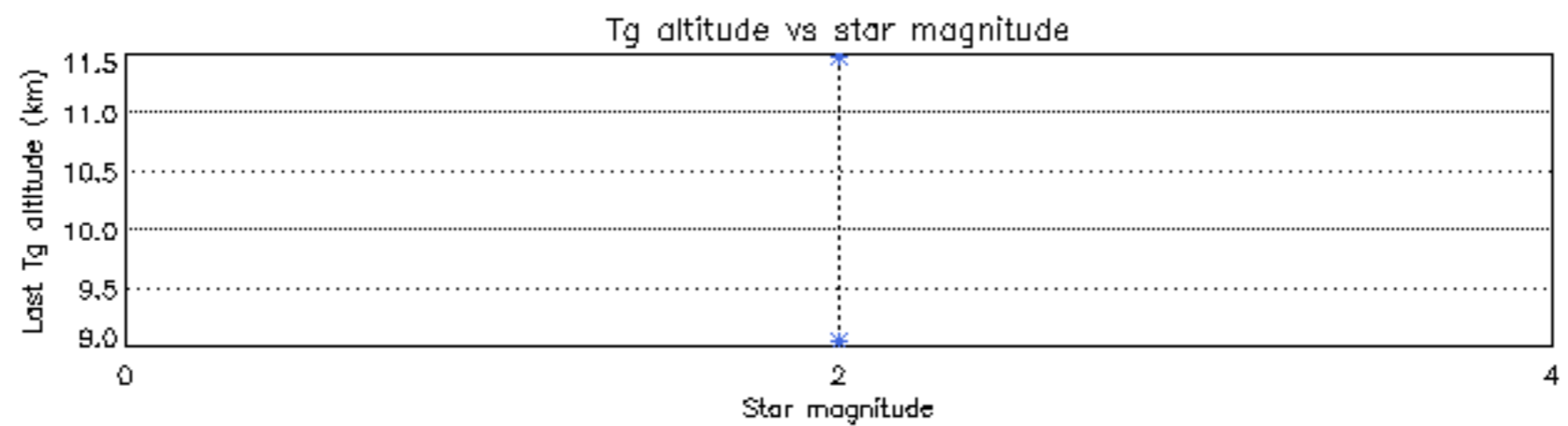
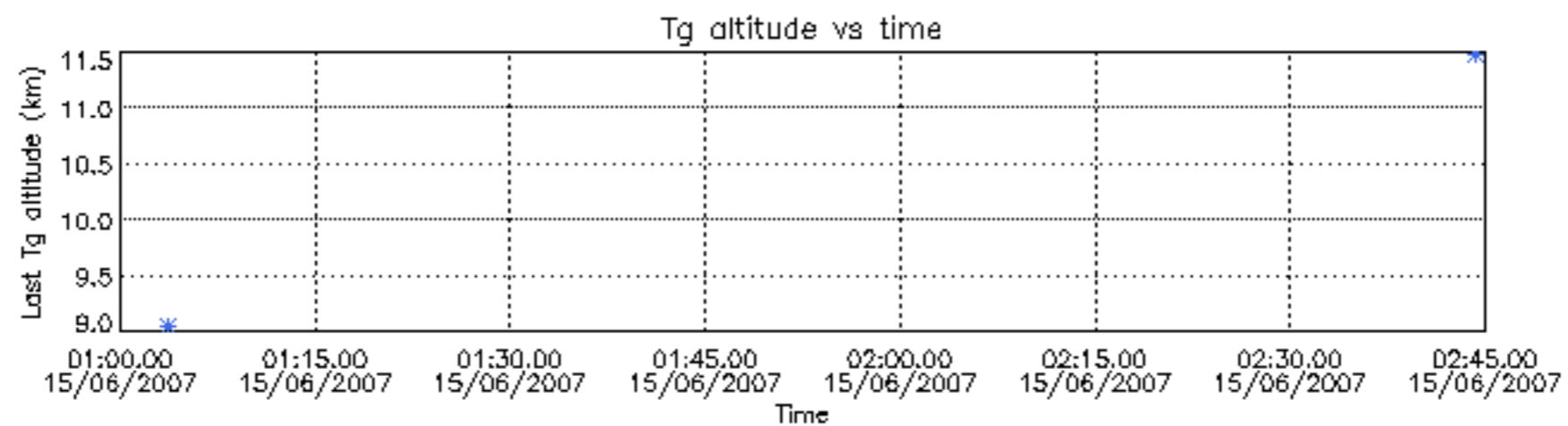
Tangent altitude at which the star is lost

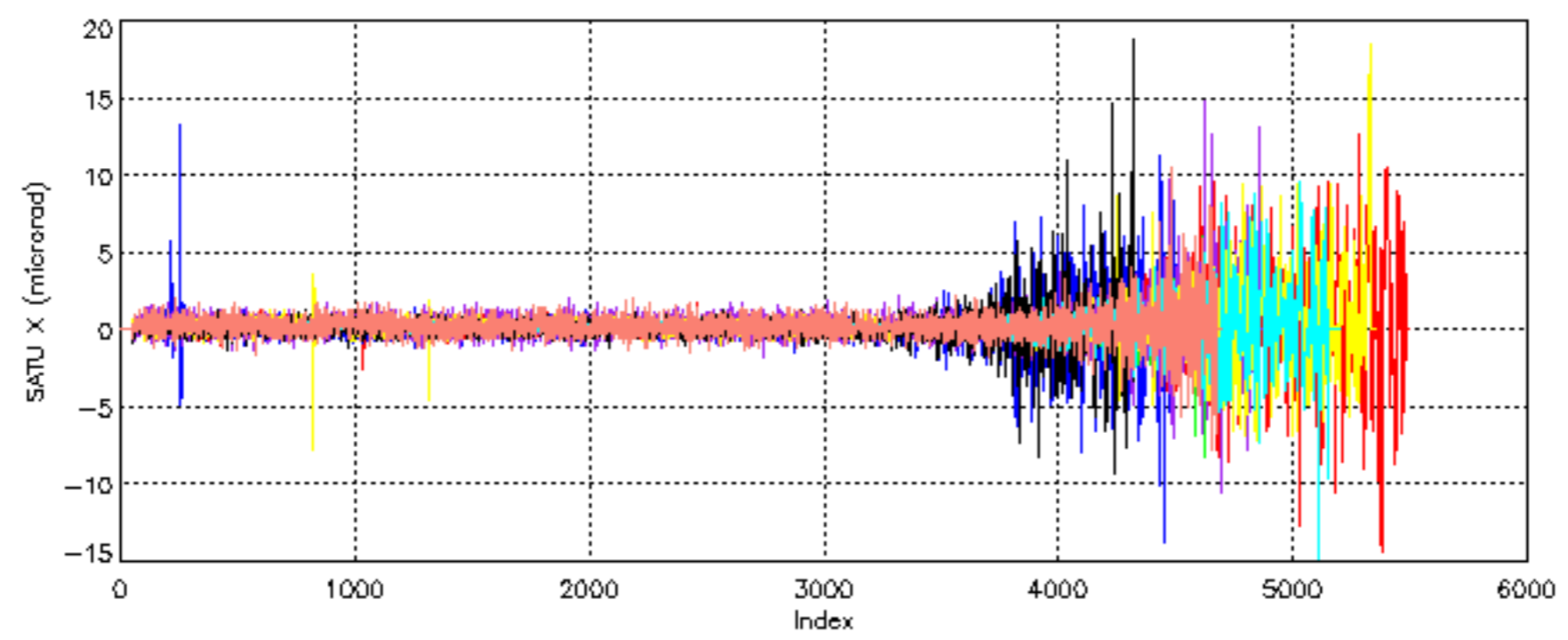


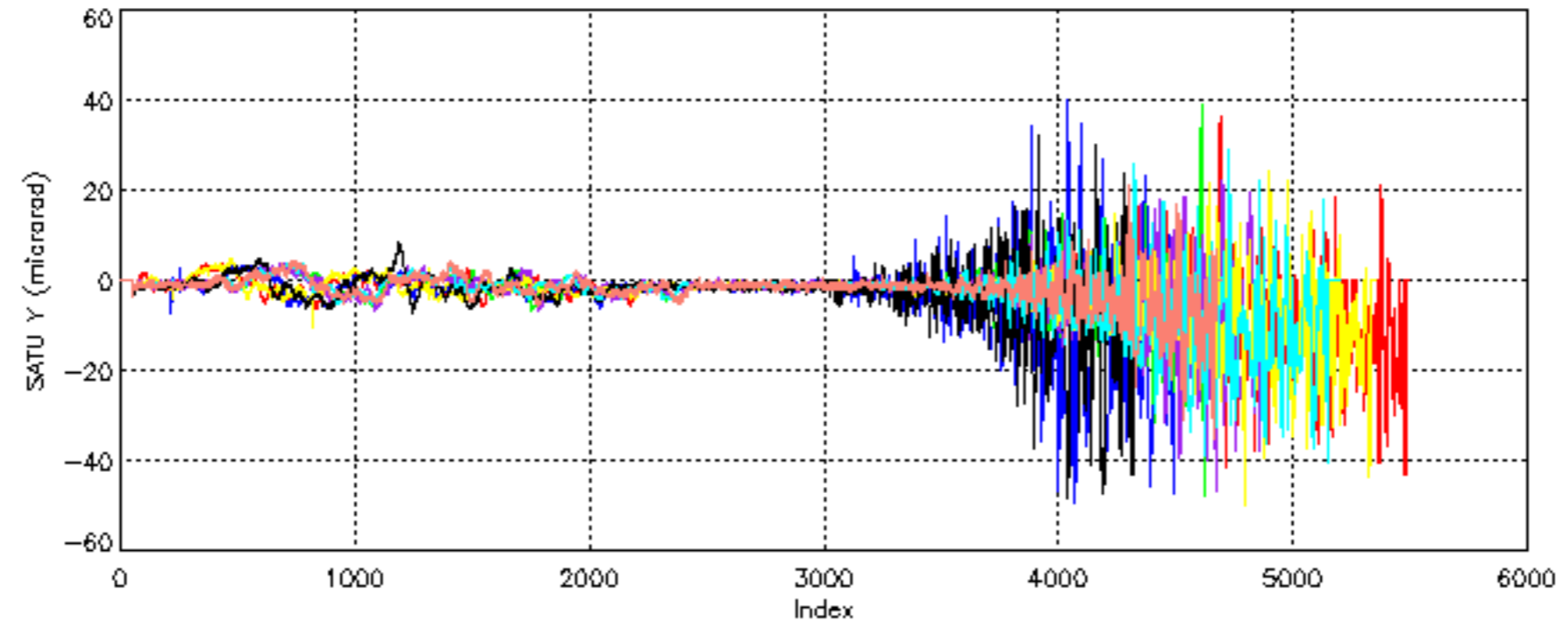
Tangent altitude at which the star is lost

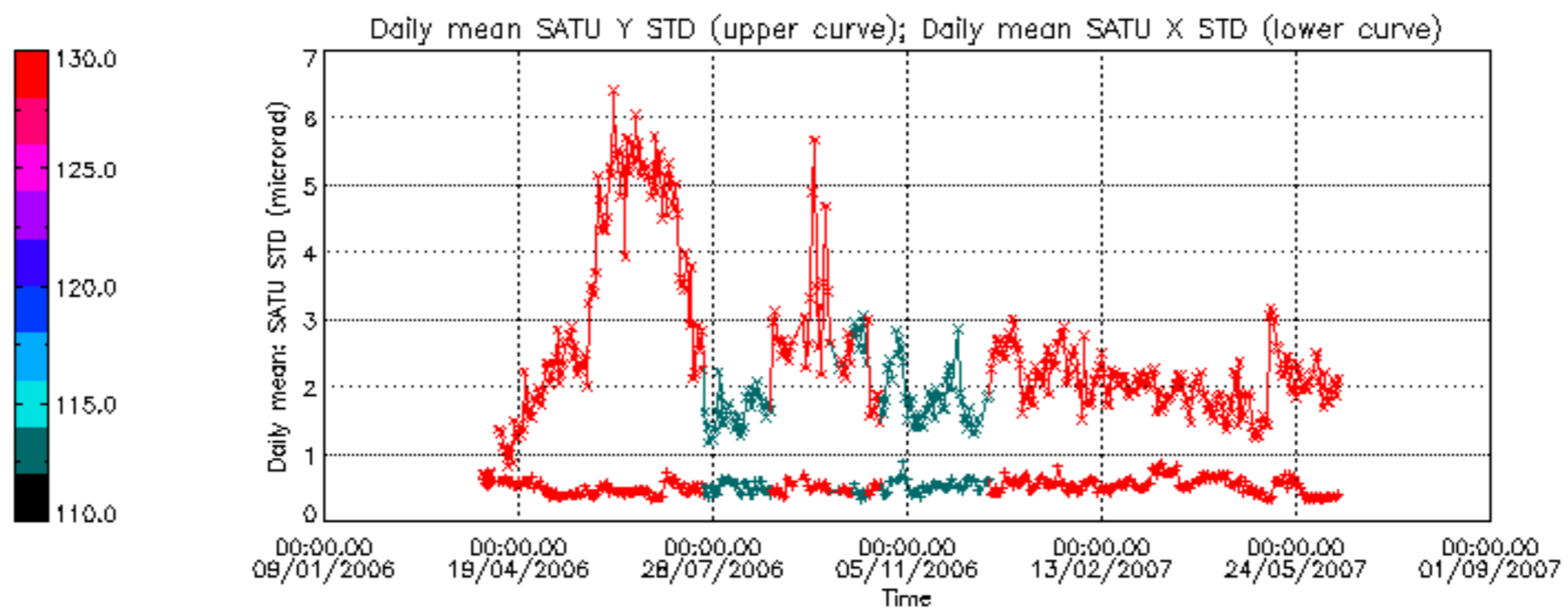


Tangent altitude at which the star is lost









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1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
 2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

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1; -647.3; 01-JUN-2007 01:56:00; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27454
 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
 17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
 20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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1; -2106.4; 01-JUN-2007 03:12:17; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;27455
 2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
 4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
 5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
 6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
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 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456
 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
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 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 2; -381.8; 01-JUN-2007 22:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27466
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```

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2; 1373.6; 01-JUN-2007 15:54:28; Dark ; 56.0; 136; 23Tau Sco ; 2.82; 30000;occ; 112; 0;27463
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8; 1834.1; 01-JUN-2007 19:23:21; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27465
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23; 2499.3; 06-JUN-2007 03:31:33; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27527
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25; 3165.4; 06-JUN-2007 03:42:39; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27527
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22; 2301.1; 06-JUN-2007 06:49:27; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;27529
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4; 1272.5; 06-JUN-2007 19:57:06; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;27537
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9; 1834.9; 06-JUN-2007 20:06:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27537
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15; 3446.7; 06-JUN-2007 20:33:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27537
16; 3920.4; 06-JUN-2007 20:41:14; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27537
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18; 4401.2; 06-JUN-2007 20:49:15; Dark ; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;27537
19; 4648.3; 06-JUN-2007 20:53:22; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27537

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2;	-347.0;	06-JUN-2007	21:10:43;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27537
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4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
15;	1706.5;	06-JUN-2007	21:44:56;	Bright;		38.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	77;	0;	27538
16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
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20;	2984.7;	06-JUN-2007	22:06:14;	Bright;		51.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	102;	0;	27538
21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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5;	264.5;	06-JUN-2007	23:01:30;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	27539
6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
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8;	966.0;	06-JUN-2007	23:13:11;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	27539
9;	1068.9;	06-JUN-2007	23:14:54;	Dark	;	44.0;	40;	The	Sco	;	1.86;	7100;	occ;	88;	0;	27539
10;	1174.9;	06-JUN-2007	23:16:40;	Dark	;	44.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	88;	0;	27539
11;	1273.0;	06-JUN-2007	23:18:18;	Dark	;	43.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	87;	0;	27539
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13;	1511.3;	06-JUN-2007	23:22:17;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27539
14;	1598.8;	06-JUN-2007	23:23:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27539
15;	1706.6;	06-JUN-2007	23:25:32;	Bright;		40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	27539
16;	1834.7;	06-JUN-2007	23:27:40;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27539
17;	2015.0;	06-JUN-2007	23:30:40;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27539
18;	2298.4;	06-JUN-2007	23:35:24;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27539
19;	2494.7;	06-JUN-2007	23:38:40;	Bright;		42.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	84;	0;	27539
20;	2984.6;	06-JUN-2007	23:46:50;	Bright;		37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	27539
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14; 5693.7; 07-JUN-2007 12:16:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27546
15; 5845.6; 07-JUN-2007 12:18:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27546
16; 6189.8; 07-JUN-2007 12:24:27; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27546
17; 6308.3; 07-JUN-2007 12:26:25; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27546
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14; 4402.4; 07-JUN-2007 15:15:51; Dark ; 53.5; 53; 43Bet And ; 2.05; 3300;occ; 107; 0;27548
15; 4651.1; 07-JUN-2007 15:20:00; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;27548
16; 5452.7; 07-JUN-2007 15:33:21; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;27548
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 22; 6927.4; 07-JUN-2007 15:57:56; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27548
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 7; 2015.5; 07-JUN-2007 16:16:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27549
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 10; 2982.5; 07-JUN-2007 16:32:47; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27549
 11; 3165.4; 07-JUN-2007 16:35:50; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27549
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 13; 3918.9; 07-JUN-2007 16:48:24; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27549
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 18; 5695.5; 07-JUN-2007 17:18:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27549
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 23; 6927.8; 07-JUN-2007 17:38:32; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27549
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 13; 3165.2; 07-JUN-2007 18:16:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27550
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16; 5863.5; 09-JUN-2007 09:35:11; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;27573
17; 6214.7; 09-JUN-2007 09:41:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;27573
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19; 6600.1; 09-JUN-2007 09:47:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27573
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21; 7118.2; 09-JUN-2007 09:56:05; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27573

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22; 7223.3; 09-JUN-2007 09:57:50; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;27573
23; 7318.2; 09-JUN-2007 09:59:25; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27573
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25; 7638.6; 09-JUN-2007 10:04:46; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27573
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13; 5472.9; 09-JUN-2007 11:09:16; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;27574
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15; 5864.1; 09-JUN-2007 11:15:47; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;27574
16; 6215.5; 09-JUN-2007 11:21:38; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27574
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18; 6600.8; 09-JUN-2007 11:28:04; Dark ; 48.5; 45; Alp Pav ; 1.94; 26000;occ; 97; 0;27574
19; 7014.9; 09-JUN-2007 11:34:58; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;27574
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23; 7489.8; 09-JUN-2007 11:42:53; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;27574
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 4; 2017.1; 09-JUN-2007 13:32:52; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;27576
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```


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 12; 4265.6; 09-JUN-2007 15:50:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;27577
 13; 4404.8; 09-JUN-2007 15:53:15; Dark ; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;27577
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 14; 1845.4; 17-JUN-2007 05:55:52; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;27686
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 19; 7277.8; 22-JUN-2007 09:50:08; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;27759
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 22; 7660.6; 22-JUN-2007 09:56:31; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;27759
 23; 7764.3; 22-JUN-2007 09:58:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27759

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_095845_000059382059_00151_27760_8145.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_113712_000059282059_00152_27761_8146.N1

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12; 4930.8; 22-JUN-2007 12:32:13; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27761
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 14; 5650.4; 22-JUN-2007 12:44:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27761
 15; 6014.4; 22-JUN-2007 12:50:16; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27761
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_131600_000058822059_00153_27762_8147.N1

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 13; 4931.2; 22-JUN-2007 14:12:49; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;27762
 14; 5174.5; 22-JUN-2007 14:16:52; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;27762
 15; 5650.8; 22-JUN-2007 14:24:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27762
 16; 6014.9; 22-JUN-2007 14:30:53; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27762
 17; 6324.3; 22-JUN-2007 14:36:02; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;27762
 18; 6986.5; 22-JUN-2007 14:47:04; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27762
 19; 7071.0; 22-JUN-2007 14:48:29; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;27762
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_145601_000057322059_00154_27763_8148.N1

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 4; 1855.4; 22-JUN-2007 15:02:09; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;27763
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 6; 2274.1; 22-JUN-2007 15:09:08; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27763
 7; 2382.8; 22-JUN-2007 15:10:56; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;27763
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 13; 4931.8; 22-JUN-2007 15:53:25; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;27763
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 18; 6986.9; 22-JUN-2007 16:27:40; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27763
 19; 7071.3; 22-JUN-2007 16:29:05; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27763
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070622_163233_000058572059_00155_27764_8149.N1

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 11; 3176.6; 22-JUN-2007 17:04:46; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27764
 12; 3446.2; 22-JUN-2007 17:09:16; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27764

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16; 5174.7; 22-JUN-2007 17:38:04; Dark ; 35.0; 165; 34Gam Eri ; 2.95; 3200;occ; 70; 0;27764
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16; 6327.3; 23-JUN-2007 14:04:28; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;27776
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4; 1857.6; 23-JUN-2007 14:30:34; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;27777


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3; 419.2; 24-JUN-2007 01:50:47; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27784

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 16; 6998.7; 26-JUN-2007 14:21:24; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27819
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10; 3445.7; 29-JUN-2007 15:08:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27863
11; 4064.2; 29-JUN-2007 15:18:51; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;27863
12; 4164.8; 29-JUN-2007 15:20:31; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27863
13; 4293.9; 29-JUN-2007 15:22:41; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;27863
14; 4967.0; 29-JUN-2007 15:33:54; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;27863
15; 5194.4; 29-JUN-2007 15:37:41; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;27863
16; 5701.3; 29-JUN-2007 15:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27863
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22; 7301.8; 29-JUN-2007 16:12:48; Dark ; 28.5; 25; 35Lam Sco ; 1.62; 28000;occ; 57; 0;27863

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 5; 1350.5; 29-JUN-2007 21:16:01; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;27867
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 7; 1744.4; 29-JUN-2007 21:22:35; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;27867
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 11; 2446.9; 29-JUN-2007 21:34:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;27867
 12; 2812.9; 29-JUN-2007 21:40:23; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27867
 13; 2951.7; 29-JUN-2007 21:42:42; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;27867
 14; 3188.5; 29-JUN-2007 21:46:39; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27867
 15; 3445.5; 29-JUN-2007 21:50:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27867
 16; 4063.6; 29-JUN-2007 22:01:14; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;27867
 17; 4164.7; 29-JUN-2007 22:02:55; Bright; 40.0; 175; 39Del Per ; 3.01; 19400;occ; 80; 0;27867
 18; 4293.9; 29-JUN-2007 22:05:04; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;27867
 19; 4968.5; 29-JUN-2007 22:16:19; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;27867
 20; 5195.2; 29-JUN-2007 22:20:06; Dark ; 2.0; 165; 34Gam Eri ; 2.95; 3200;occ; 4; 0;27867

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070629_222006_000060732059_00258_27867_3876.N1

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 4; 470.6; 29-JUN-2007 22:41:57; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27868
 5; 734.9; 29-JUN-2007 22:46:21; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27868
 6; 1058.8; 29-JUN-2007 22:51:45; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27868
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 9; 1350.5; 29-JUN-2007 22:56:37; Dark ; 47.5; 116; 19Del Sgr ; 2.70; 4100;occ; 95; 0;27868
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 11; 1744.6; 29-JUN-2007 23:03:11; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;27868
 12; 1982.6; 29-JUN-2007 23:07:09; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;27868
 13; 2123.3; 29-JUN-2007 23:09:30; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;27868
 14; 2281.0; 29-JUN-2007 23:12:07; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;27868
 15; 2447.0; 29-JUN-2007 23:14:53; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;27868
 16; 2812.6; 29-JUN-2007 23:20:59; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;27868
 17; 2951.8; 29-JUN-2007 23:23:18; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;27868
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 19; 3445.5; 29-JUN-2007 23:31:32; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27868
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 22; 4294.0; 29-JUN-2007 23:45:40; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;27868
 23; 4968.9; 29-JUN-2007 23:56:55; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;27868
 24; 5195.4; 30-JUN-2007 00:00:42; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 0;27868

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 5; 1982.9; 29-JUN-2007 16:24:46; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;27864
 6; 2123.5; 29-JUN-2007 16:27:06; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27864
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 9; 2813.5; 29-JUN-2007 16:38:36; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27864
 10; 2951.8; 29-JUN-2007 16:40:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27864
 11; 3188.2; 29-JUN-2007 16:44:51; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;27864
 12; 3445.7; 29-JUN-2007 16:49:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27864
 13; 4064.1; 29-JUN-2007 16:59:27; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;27864
 14; 4164.7; 29-JUN-2007 17:01:07; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;27864
 15; 4293.7; 29-JUN-2007 17:03:16; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;27864
 16; 4967.5; 29-JUN-2007 17:14:30; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;27864
 17; 5194.7; 29-JUN-2007 17:18:17; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;27864
 18; 5701.9; 29-JUN-2007 17:26:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27864
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 21; 6769.4; 29-JUN-2007 17:44:32; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;27864

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2;	1165.9;	29-JUN-2007	17:51:45;	Dark	;	42.5;	40;	The Sco	;	1.86;	7100;occ;	85;	0;	27865
3;	1265.9;	29-JUN-2007	17:53:25;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27865
4;	1349.9;	29-JUN-2007	17:54:49;	Dark	;	45.5;	116;	19Del Sgr	;	2.70;	4100;occ;	91;	0;	27865
5;	1639.3;	29-JUN-2007	17:59:38;	Bright;		36.5;	86;	35Eta Oph	;	2.43;	10200;occ;	73;	0;	27865
6;	1744.2;	29-JUN-2007	18:01:23;	Bright;		35.5;	98;	13Zet Oph	;	2.57;	30000;occ;	71;	0;	27865
7;	1982.8;	29-JUN-2007	18:05:21;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27865
8;	2123.4;	29-JUN-2007	18:07:42;	Bright;		36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	27865
9;	2280.8;	29-JUN-2007	18:10:19;	Bright;		37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;	27865
10;	2446.8;	29-JUN-2007	18:13:05;	Bright;		34.0;	133;	40Zet Her	;	2.81;	6000;occ;	68;	0;	27865
11;	2813.3;	29-JUN-2007	18:19:12;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27865
12;	2951.7;	29-JUN-2007	18:21:30;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27865
13;	3188.2;	29-JUN-2007	18:25:27;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27865
14;	3445.6;	29-JUN-2007	18:29:44;	Bright;		35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27865
15;	4063.9;	29-JUN-2007	18:40:03;	Bright;		37.0;	160;	23Gam Per	;	2.93;	4700;occ;	74;	0;	27865
16;	4164.6;	29-JUN-2007	18:41:43;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	27865
17;	4293.7;	29-JUN-2007	18:43:52;	Bright;		36.0;	79;	26Bet Per	;	2.31;	13100;occ;	72;	0;	27865
18;	4967.8;	29-JUN-2007	18:55:06;	Dark	;	49.5;	94;	92Alp Cet	;	2.53;	3100;occ;	99;	0;	27865
19;	5194.8;	29-JUN-2007	18:58:53;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27865
20;	5702.4;	29-JUN-2007	19:07:21;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27865
21;	6060.7;	29-JUN-2007	19:13:19;	Dark	;	46.0;	9;	Alp Eri	;	0.45;	24000;occ;	92;	0;	27865
22;	6505.5;	29-JUN-2007	19:20:44;	Dark	;	42.5;	148;	Alp Tuc	;	2.88;	4100;occ;	85;	0;	27865
23;	6769.8;	29-JUN-2007	19:25:08;	Dark	;	39.0;	45;	Alp Pav	;	1.94;	26000;occ;	78;	0;	27865

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2;	1166.2;	29-JUN-2007	19:32:21;	Dark	;	43.0;	40;	The Sco	;	1.86;	7100;occ;	86;	0;	27866
3;	1266.1;	29-JUN-2007	19:34:01;	Dark	;	39.5;	25;	35Lam Sco	;	1.62;	28000;occ;	79;	0;	27866
4;	1350.1;	29-JUN-2007	19:35:25;	Dark	;	49.0;	116;	19Del Sgr	;	2.70;	4100;occ;	98;	0;	27866
5;	1639.4;	29-JUN-2007	19:40:14;	Bright;		37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;	27866
6;	1744.2;	29-JUN-2007	19:41:59;	Bright;		35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	0;	27866
7;	1982.7;	29-JUN-2007	19:45:57;	Bright;		38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	27866
8;	2123.5;	29-JUN-2007	19:48:18;	Bright;		38.0;	59;	55Alp Oph	;	2.08;	8900;occ;	76;	0;	27866
9;	2280.8;	29-JUN-2007	19:50:55;	Bright;		36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;	27866
10;	2446.9;	29-JUN-2007	19:53:41;	Bright;		34.5;	133;	40Zet Her	;	2.81;	6000;occ;	69;	0;	27866
11;	2813.1;	29-JUN-2007	19:59:48;	Bright;		37.5;	130;	23Bet Dra	;	2.80;	5800;occ;	75;	0;	27866
12;	2951.8;	29-JUN-2007	20:02:06;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	27866
13;	3188.4;	29-JUN-2007	20:06:03;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27866
14;	3445.6;	29-JUN-2007	20:10:20;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	27866
15;	4064.0;	29-JUN-2007	20:20:39;	Bright;		35.0;	160;	23Gam Per	;	2.93;	4700;occ;	70;	0;	27866
16;	4164.8;	29-JUN-2007	20:22:19;	Bright;		33.5;	175;	39Del Per	;	3.01;	19400;occ;	67;	0;	27866
17;	4294.0;	29-JUN-2007	20:24:29;	Bright;		44.0;	79;	26Bet Per	;	2.31;	13100;occ;	88;	0;	27866
18;	4968.0;	29-JUN-2007	20:35:43;	Dark	;	48.5;	94;	92Alp Cet	;	2.53;	3100;occ;	97;	0;	27866
19;	5194.9;	29-JUN-2007	20:39:30;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	27866
20;	5702.9;	29-JUN-2007	20:47:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	27866
21;	6061.1;	29-JUN-2007	20:53:56;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;	27866
22;	6506.0;	29-JUN-2007	21:01:21;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	27866

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3;	26.1;	30-JUN-2007	00:15:08;	Dark	;	41.5;	9;	Alp Eri	;	0.45;	24000;occ;	83;	0;	27869
4;	471.2;	30-JUN-2007	00:22:34;	Dark	;	41.5;	148;	Alp Tuc	;	2.88;	4100;occ;	83;	0;	27869
5;	735.3;	30-JUN-2007	00:26:58;	Dark	;	40.0;	45;	Alp Pav	;	1.94;	26000;occ;	80;	0;	27869
6;	1059.0;	30-JUN-2007	00:32:21;	Dark	;	36.5;	147;	Alp Ara	;	2.88;	26000;occ;	73;	0;	27869
7;	1166.7;	30-JUN-2007	00:34:09;	Dark	;	41.5;	40;	The Sco	;	1.86;	7100;occ;	83;	0;	27869
8;	1266.6;	30-JUN-2007	00:35:49;	Dark	;	39.0;	25;	35Lam Sco	;	1.62;	28000;occ;	78;	0;	27869
9;	1350.7;	30-JUN-2007	00:37:13;	Dark	;	53.0;	116;	19Del Sgr	;	2.70;	4100;occ;	106;	0;	27869
10;	1639.8;	30-JUN-2007	00:42:02;	Bright;		35.5;	86;	35Eta Oph	;	2.43;	10200;occ;	71;	0;	27869
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12;	1982.5;	30-JUN-2007	00:47:45;	Bright;		37.5;	126;	60Bet Oph	;	2.77;	4250;occ;	75;	0;	27869
13;	2123.0;	30-JUN-2007	00:50:05;	Bright;		37.5;	59;	55Alp Oph	;	2.08;	8900;occ;	75;	0;	27869
14;	2281.1;	30-JUN-2007	00:52:43;	Bright;		34.0;	127;	27Bet Her	;	2.78;	4700;occ;	68;	0;	27869
15;	2447.0;	30-JUN-2007	00:55:29;	Bright;		35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;	27869
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