

GOMOS Daily Report 30-OCT-2007

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	02NOV2007 11:12:50
Data source version	GOMOS/5.00
Start time of products	30-10-2007 (30OCT2007 00:00:00)
Stop time of products	31-10-2007 (31OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	36
Nb of prods with errors	0

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

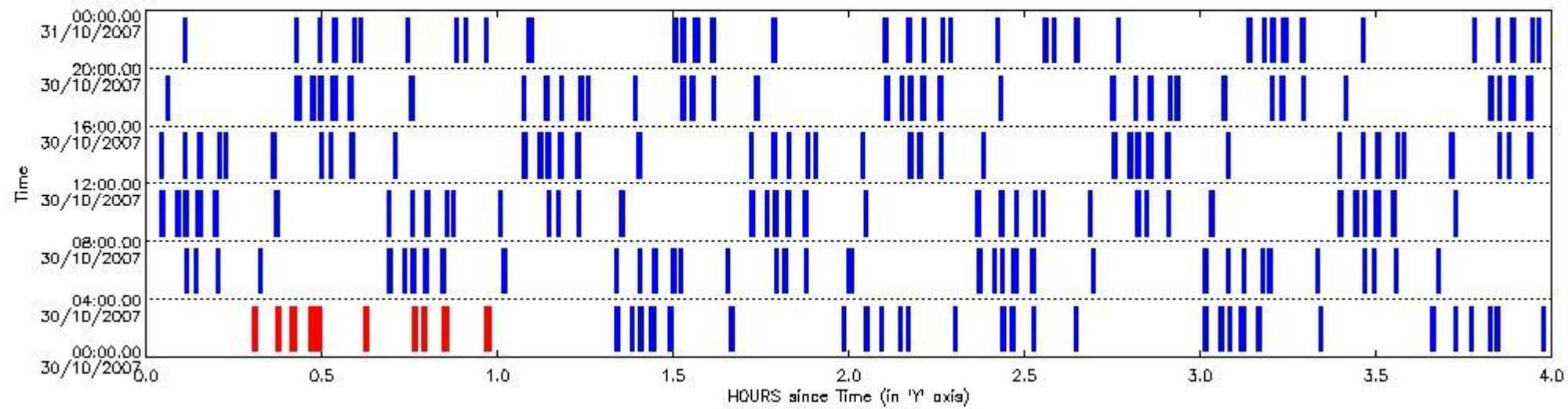
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

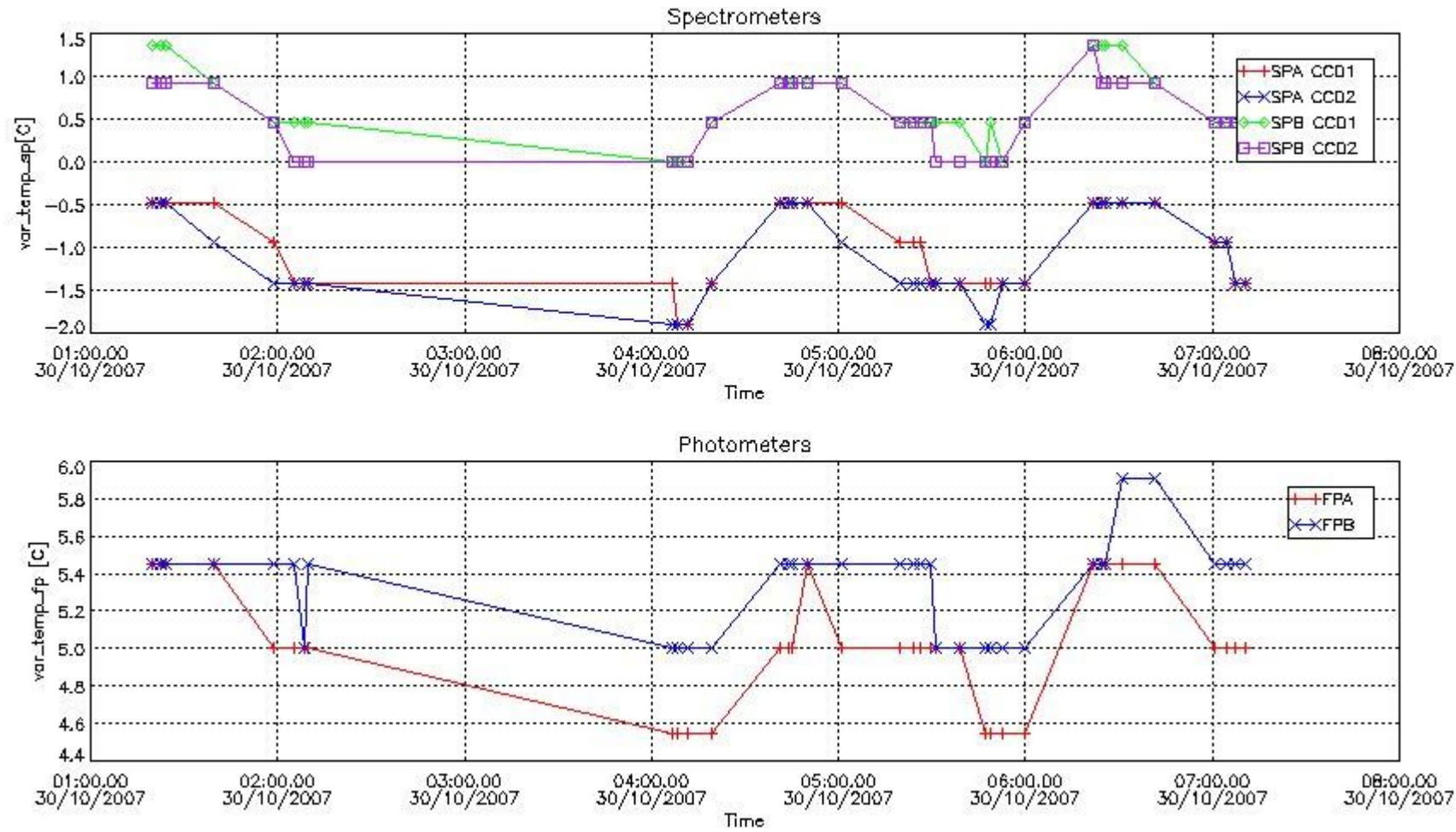
UTC start time	Star name	Star ID	Orbit
30-OCT-2007 00:18:05	6BetAri	105	29615
30-OCT-2007 00:22:02	43BetAnd	53	29615
30-OCT-2007 00:24:37	57Gam1And	73	29615
30-OCT-2007 00:27:53	18AlpCas	68	29615
30-OCT-2007 00:29:06	27GamCas	76	29615
30-OCT-2007 00:37:09	1AlpUMi	49	29615
30-OCT-2007 00:45:20	50AlpUMa	36	29615
30-OCT-2007 00:46:56	48BetUMa	82	29615
30-OCT-2007 00:50:34	52PsiUMa	174	29615
30-OCT-2007 00:57:50	68DelLeo	96	29615

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_1PNPDE20071030_011955_000000482063_00002_29615_5799.N1	30-OCT-2007 01:19:55	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	29615	No

2	GOM_TRA_1PNPDE20071030_012237_000000412063_00003_29616_5800.N1	30-OCT-2007 01:22:37	Dark	40.500	46	Del Vel	1.9540	10600.	81	29616	No
3	GOM_TRA_1PNPDE20071030_012400_000000442063_00003_29616_5728.N1	30-OCT-2007 01:24:00	Dark	43.500	41	Eps Car	1.8600	4100.0	87	29616	No
4	GOM_TRA_1PNPDE20071030_013933_000000412063_00003_29616_5803.N1	30-OCT-2007 01:39:33	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	29616	No
5	GOM_TRA_1PNPDE20071030_015844_000000402063_00003_29616_5804.N1	30-OCT-2007 01:58:44	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	29616	No
6	GOM_TRA_1PNPDE20071030_020516_000000412063_00003_29616_5806.N1	30-OCT-2007 02:05:16	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29616	No
7	GOM_TRA_1PNPDE20071030_020831_000000362063_00003_29616_5807.N1	30-OCT-2007 02:08:31	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29616	No
8	GOM_TRA_1PNPDE20071030_020944_000000362063_00003_29616_5808.N1	30-OCT-2007 02:09:44	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29616	No
9	GOM_TRA_1PNPDE20071030_040635_000000402063_00004_29617_5507.N1	30-OCT-2007 04:06:35	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29617	No
10	GOM_TRA_1PNPDE20071030_040811_000000382063_00004_29617_5508.N1	30-OCT-2007 04:08:11	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	29617	No
11	GOM_TRA_1PNPDE20071030_041149_000000412063_00004_29617_5509.N1	30-OCT-2007 04:11:49	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	29617	No
12	GOM_TRA_1PNPDE20071030_041905_000000372063_00004_29617_5510.N1	30-OCT-2007 04:19:05	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	29617	No
13	GOM_TRA_1PNPDE20071030_044109_000000452063_00004_29617_5511.N1	30-OCT-2007 04:41:09	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	29617	No
14	GOM_TRA_1PNPDE20071030_044350_000000402063_00005_29618_5512.N1	30-OCT-2007 04:43:50	Dark	39.500	46	Del Vel	1.9540	10600.	79	29618	No
15	GOM_TRA_1PNPDE20071030_044513_000000452063_00005_29618_5513.N1	30-OCT-2007 04:45:13	Dark	45.000	41	Eps Car	1.8600	4100.0	90	29618	No
16	GOM_TRA_1PNPDE20071030_045015_000000552063_00005_29618_5514.N1	30-OCT-2007 04:50:15	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	29618	No
17	GOM_TRA_1PNPDE20071030_050046_000000402063_00005_29618_5515.N1	30-OCT-2007 05:00:46	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29618	No
18	GOM_TRA_1PNPDE20071030_051955_000000392063_00005_29618_5516.N1	30-OCT-2007 05:19:55	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29618	No
19	GOM_TRA_1PNPDE20071030_052352_000000372063_00005_29618_5517.N1	30-OCT-2007 05:23:52	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29618	No
20	GOM_TRA_1PNPDE20071030_052627_000000402063_00005_29618_5518.N1	30-OCT-2007 05:26:27	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29618	No
21	GOM_TRA_1PNPDE20071030_052943_000000382063_00005_29618_5519.N1	30-OCT-2007 05:29:43	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29618	No
22	GOM_TRA_1PNPDE20071030_053056_000000372063_00005_29618_5520.N1	30-OCT-2007 05:30:56	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29618	No
23	GOM_TRA_1PNPDE20071030_053900_000000362063_00005_29618_5521.N1	30-OCT-2007 05:39:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29618	No
24	GOM_TRA_1PNPDE20071030_054711_000000392063_00005_29618_5426.N1	30-OCT-2007 05:47:11	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	29618	No
25	GOM_TRA_1PNPDE20071030_054847_000000372063_00005_29618_5427.N1	30-OCT-2007 05:48:47	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29618	No
26	GOM_TRA_1PNPDE20071030_055225_000000372063_00005_29618_5428.N1	30-OCT-2007 05:52:25	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	29618	No
27	GOM_TRA_1PNPDE20071030_055941_000000562063_00005_29618_5429.N1	30-OCT-2007 05:59:41	Bright	56.000	96	68Del Leo	2.5600	9300.0	112	29618	No
28	GOM_TRA_1PNPDE20071030_062145_000000572063_00005_29618_5430.N1	30-OCT-2007 06:21:45	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	29618	No
29	GOM_TRA_1PNPDE20071030_062427_000000412063_00006_29619_5431.N1	30-OCT-2007 06:24:27	Dark	41.000	46	Del Vel	1.9540	10600.	82	29619	No
30	GOM_TRA_1PNPDE20071030_062550_000000422063_00006_29619_5432.N1	30-OCT-2007 06:25:50	Dark	41.500	41	Eps Car	1.8600	4100.0	83	29619	No
31	GOM_TRA_1PNPDE20071030_063051_000000542063_00006_29619_5433.N1	30-OCT-2007 06:30:51	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	29619	No
32	GOM_TRA_1PNPDE20071030_064122_000000412063_00006_29619_5434.N1	30-OCT-2007 06:41:22	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29619	No
33	GOM_TRA_1PNPDE20071030_070031_000000392063_00006_29619_5435.N1	30-OCT-2007 07:00:31	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29619	No
34	GOM_TRA_1PNPDE20071030_070428_000000372063_00006_29619_5436.N1	30-OCT-2007 07:04:28	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29619	No
35	GOM_TRA_1PNPDE20071030_070702_000000392063_00006_29619_5437.N1	30-OCT-2007 07:07:02	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29619	No
36	GOM_TRA_1PNPDE20071030_071019_000000362063_00006_29619_5438.N1	30-OCT-2007 07:10:19	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29619	No

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



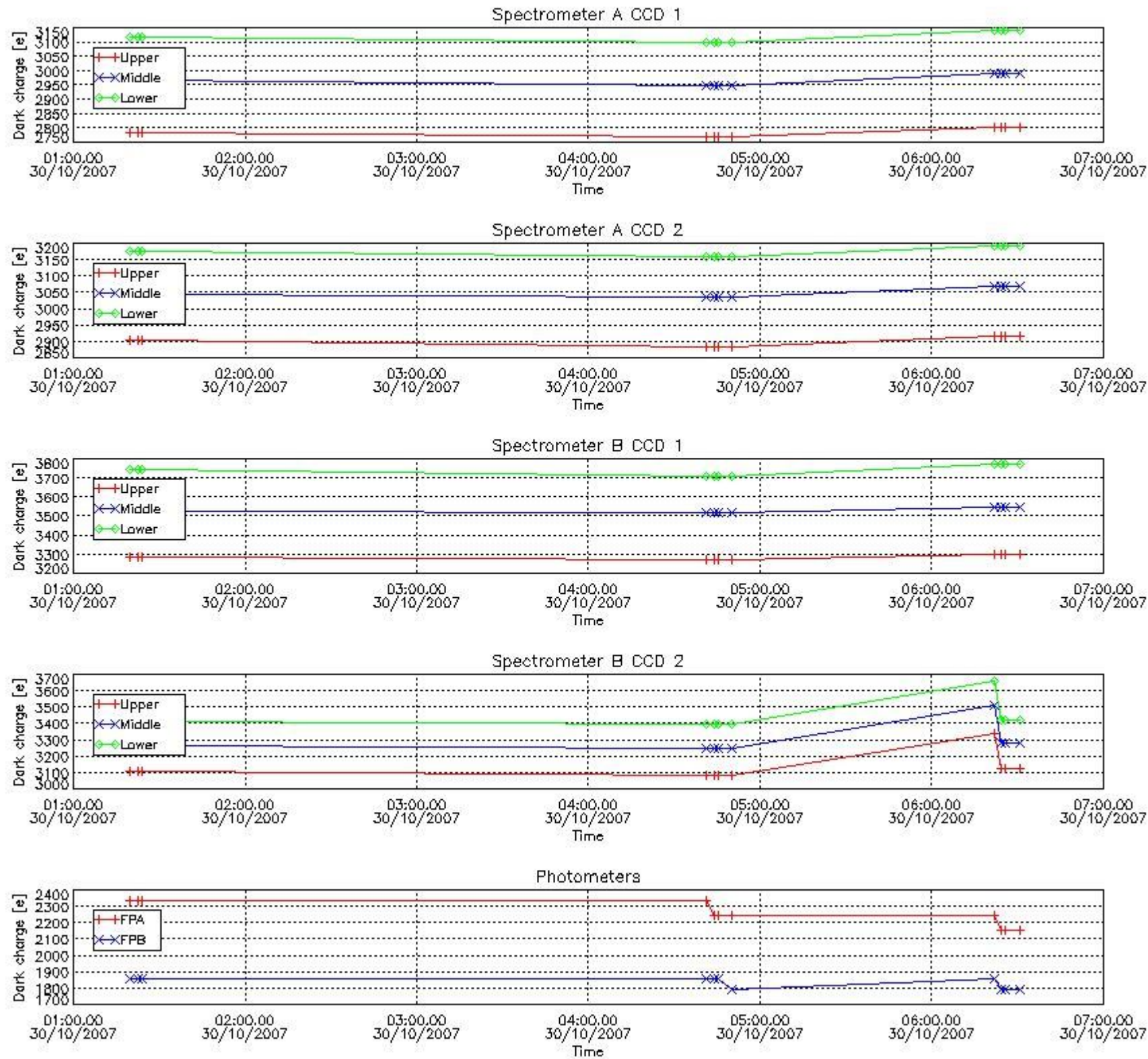
4. Overview of dark signal processing per product

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



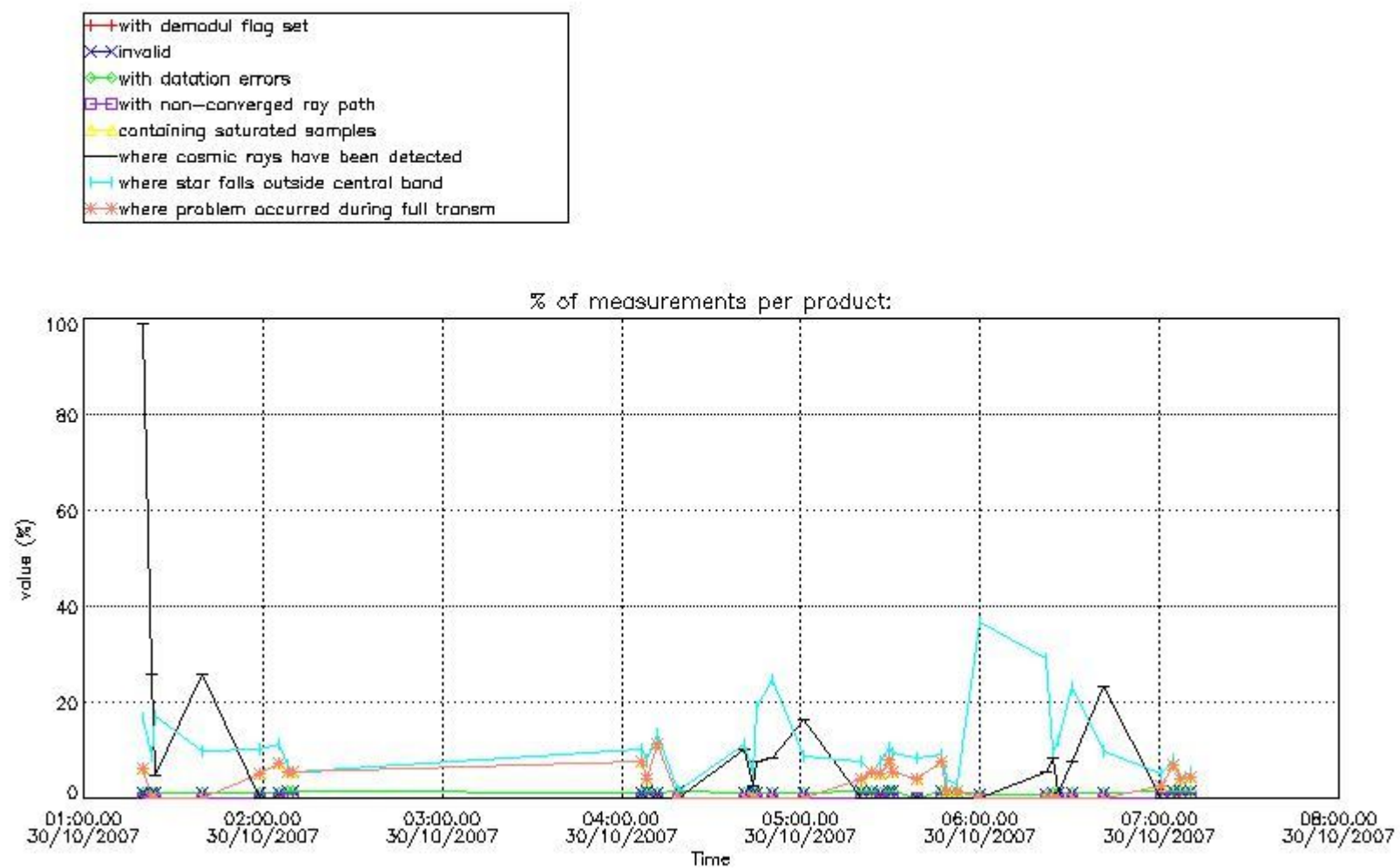
5. Demodulation flag and quality information monitoring

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.

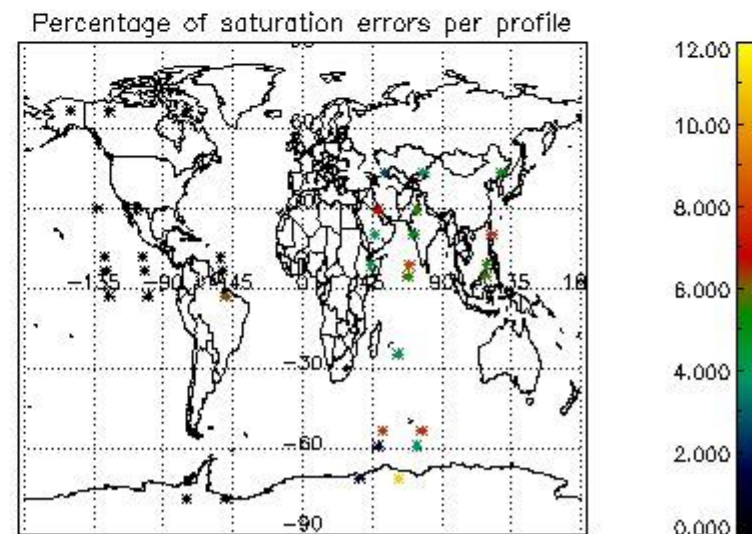
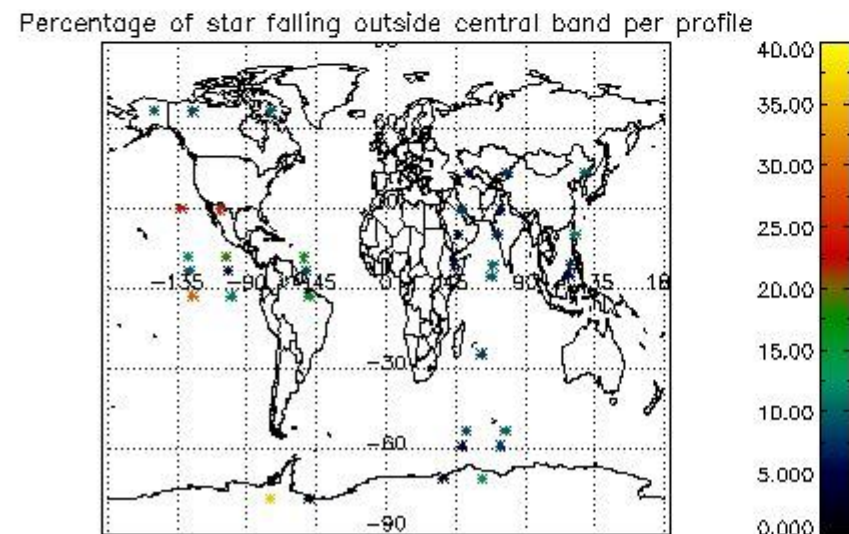
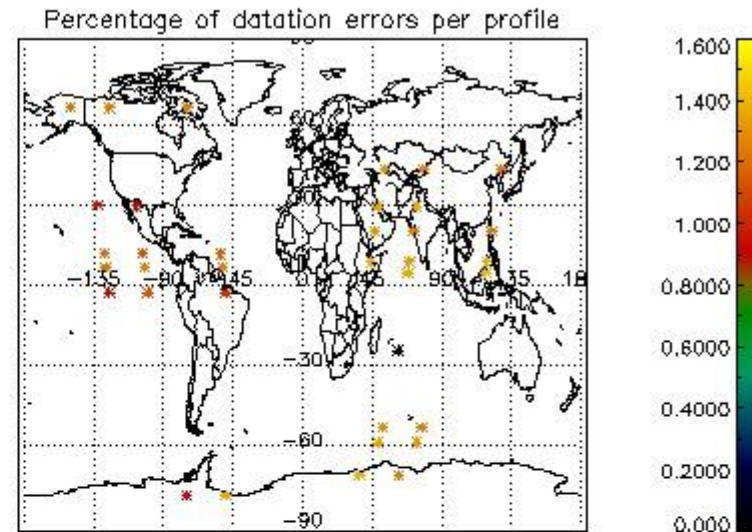
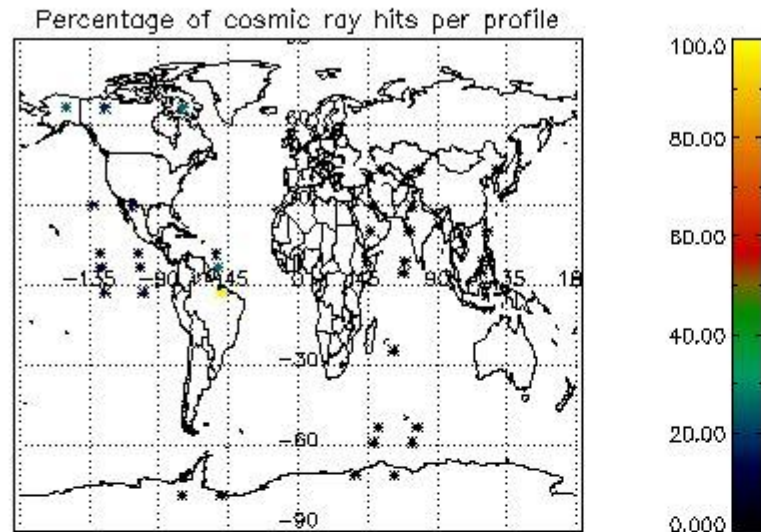
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)



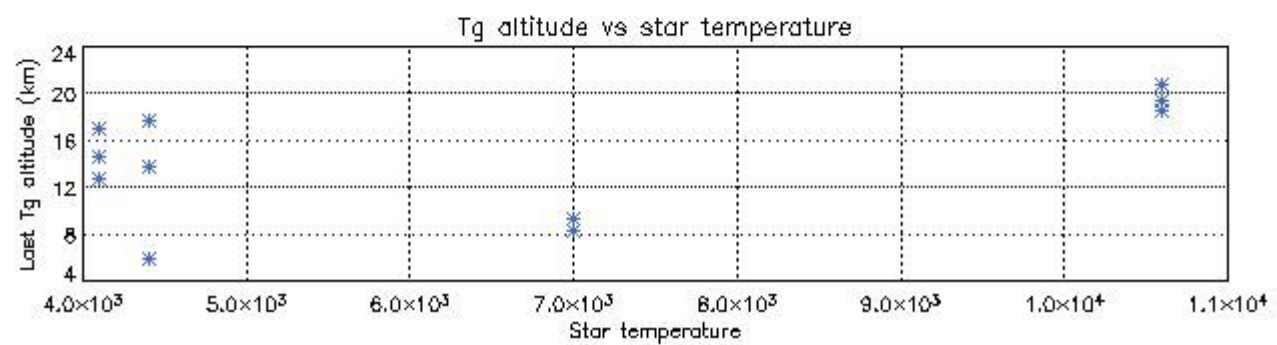
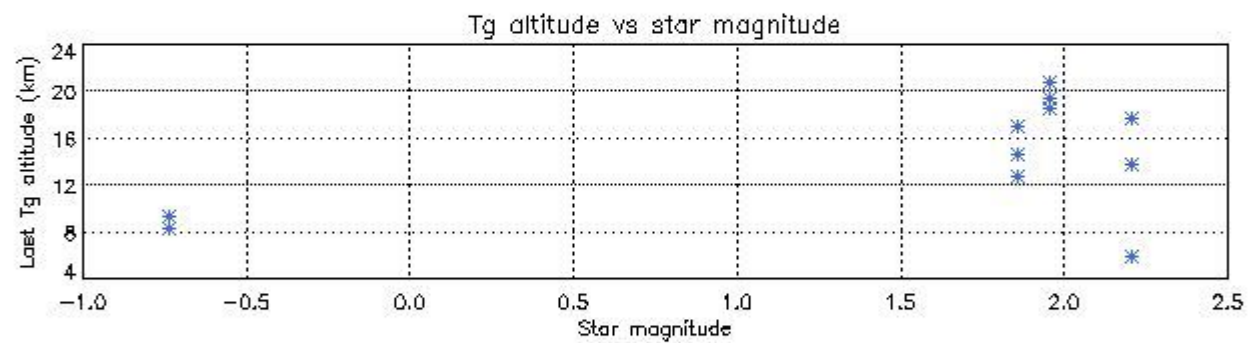
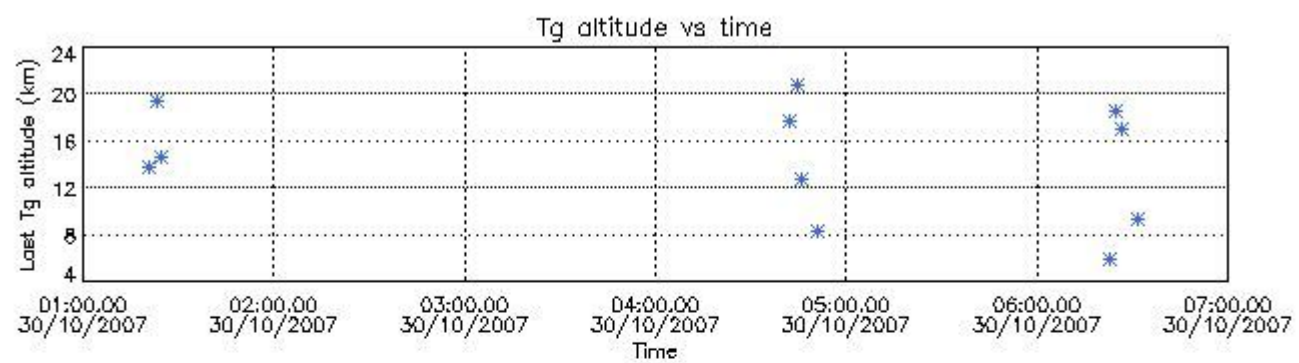
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.347	19.848	NaN
St. deviation:	4.8818	3.9399	NaN
Maximum:	20.687	24.240	NaN
Minimum:	5.9054	4.2694	NaN
Number of data:	11.000	22.000	NaN

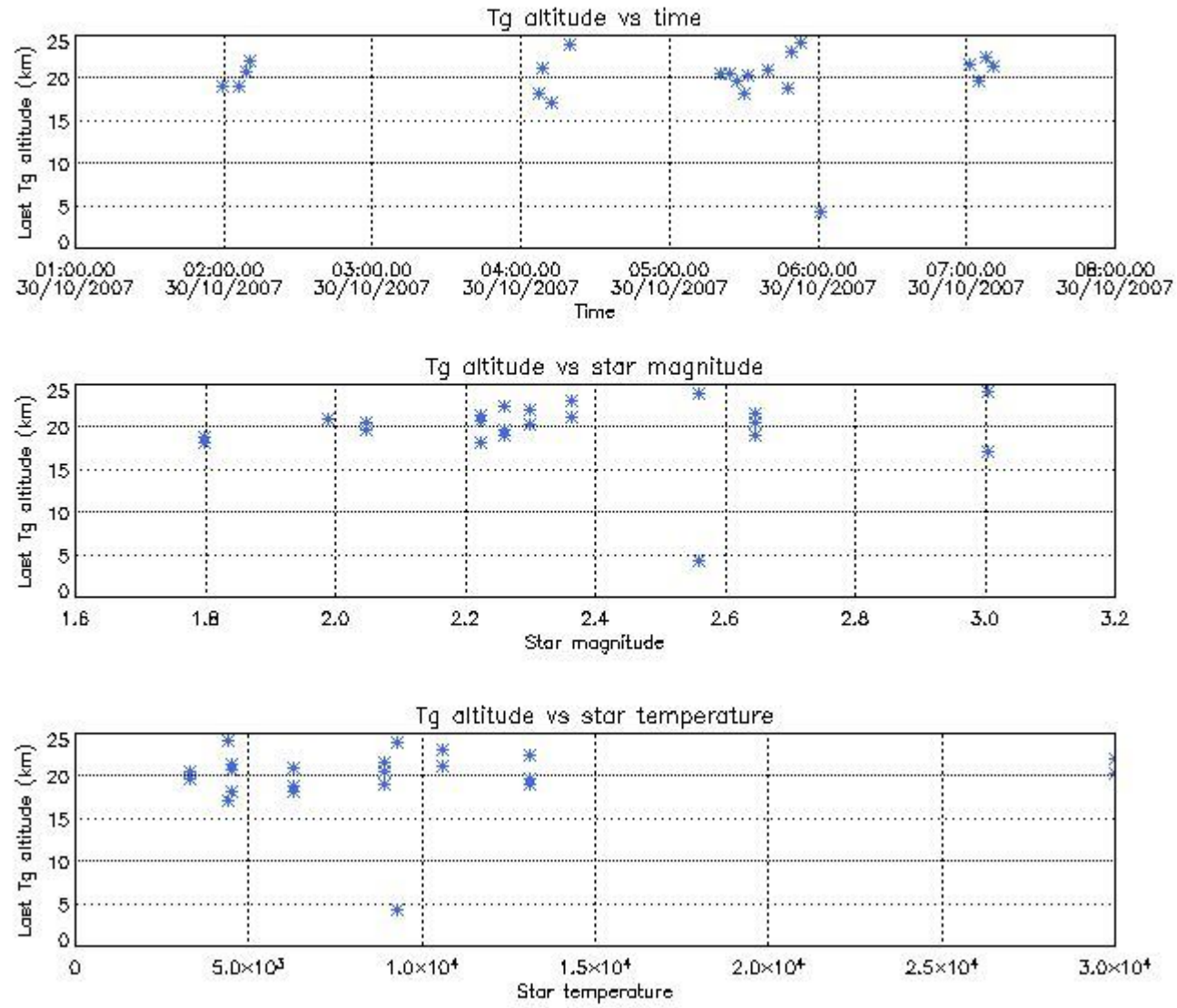
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

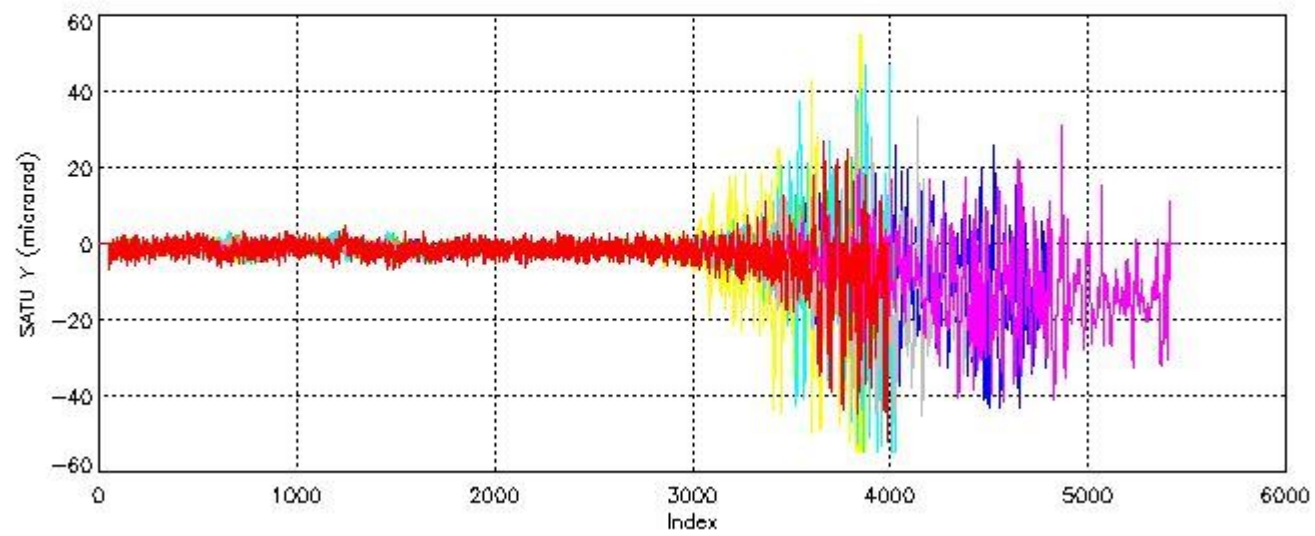
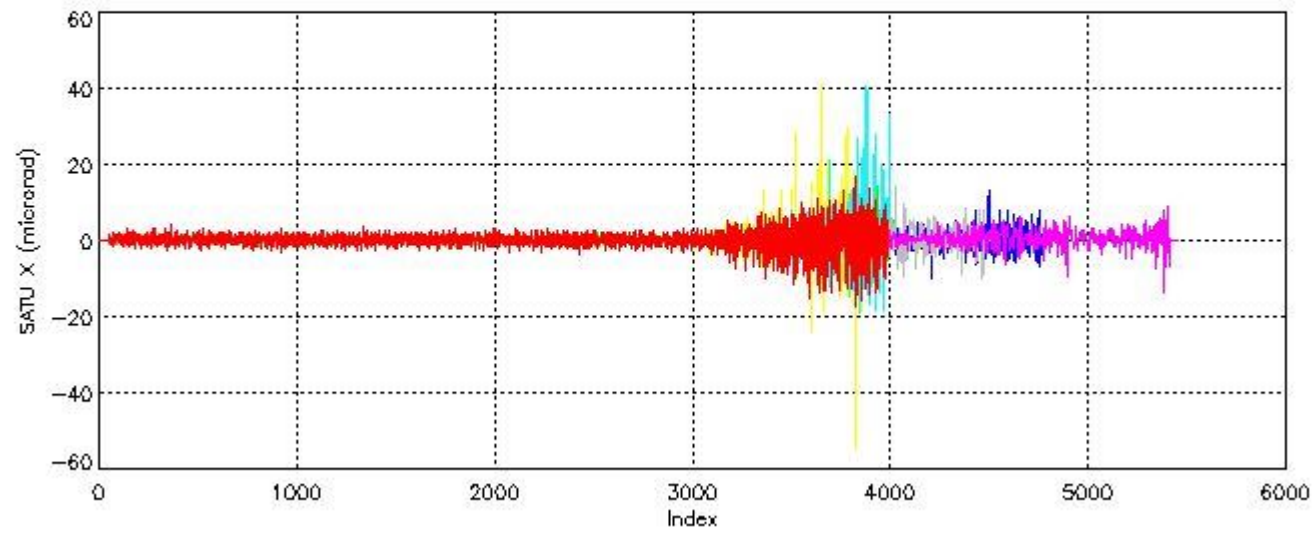


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15476	-1.2556	0.14268	-1.2034
St. deviation:	0.27932	0.98055	0.67136	1.4215
Maximum:	2.1000	4.2000	4.1000	5.5000
Minimum:	-1.8000	-5.6000	-3.9000	-7.7000

Number of data:	10950.	10950.	18900.	18900.
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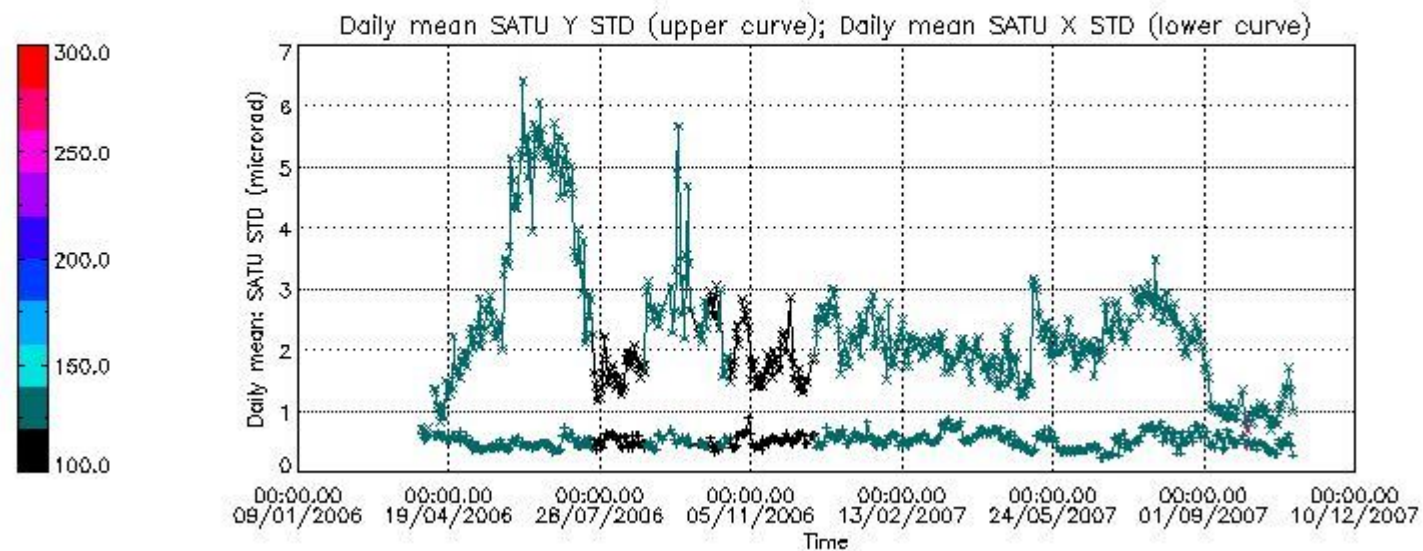
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

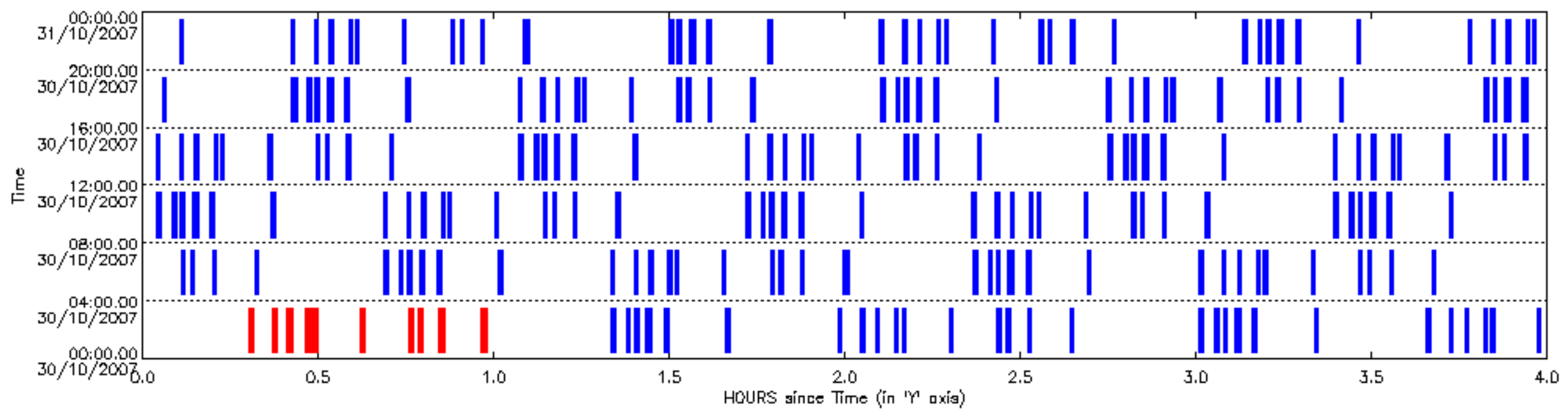
Lower curve: STD of SATU X axis

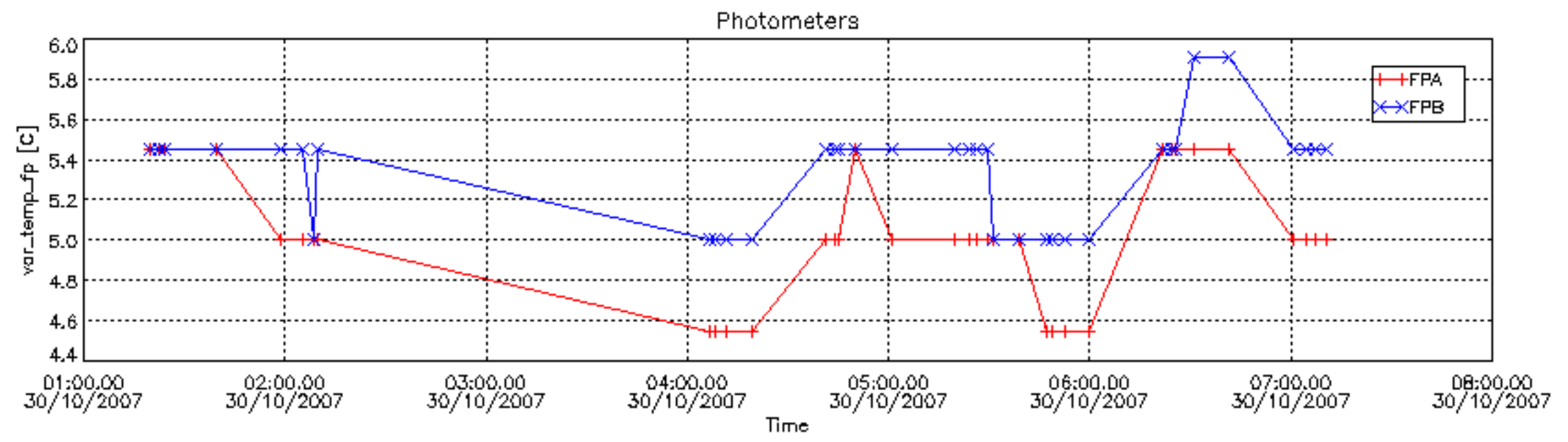
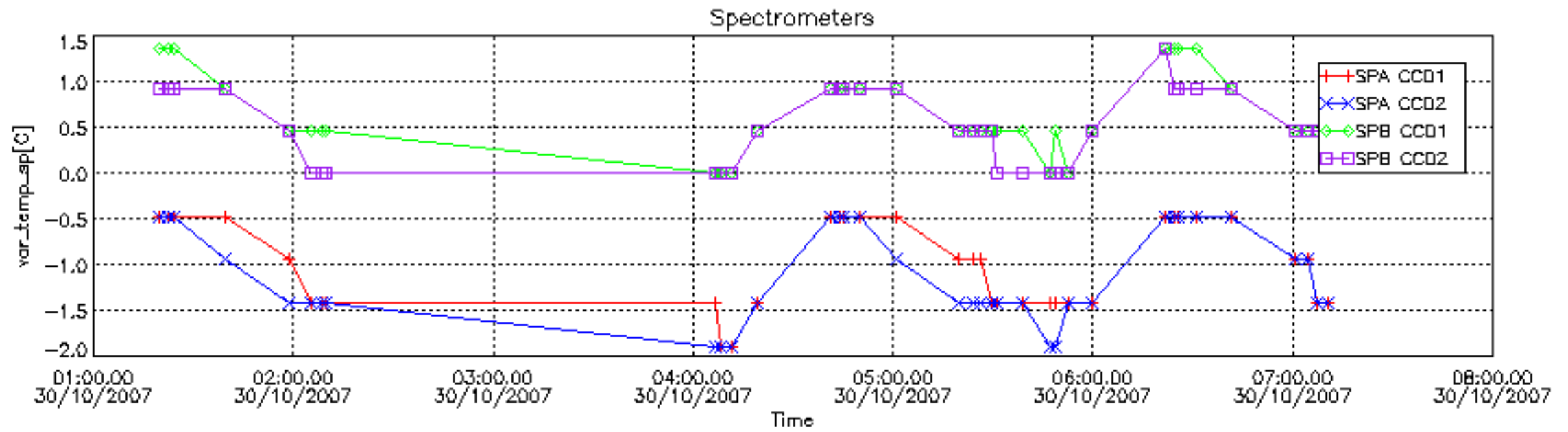


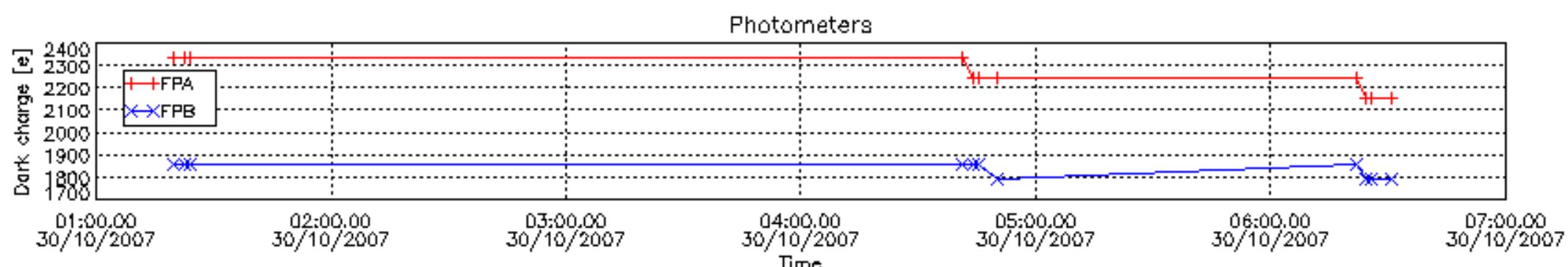
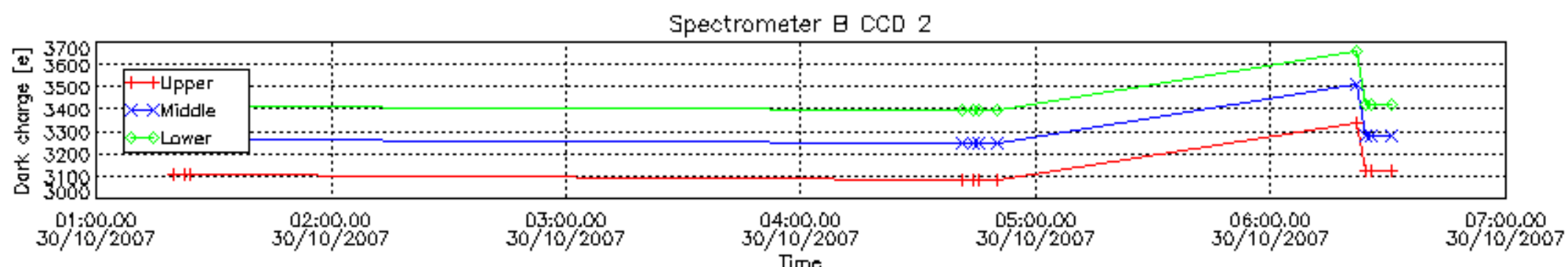
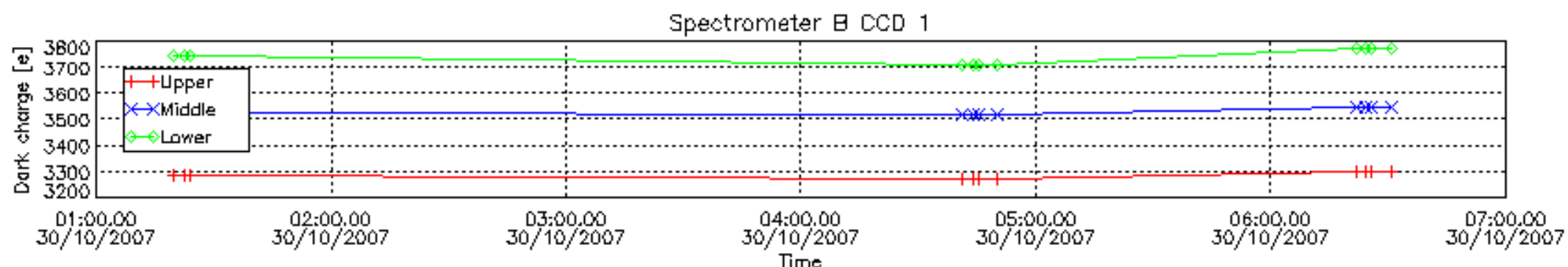
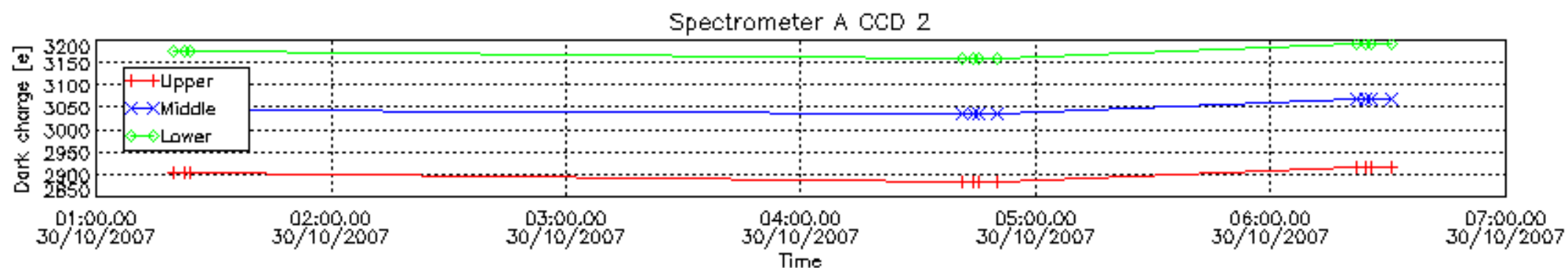
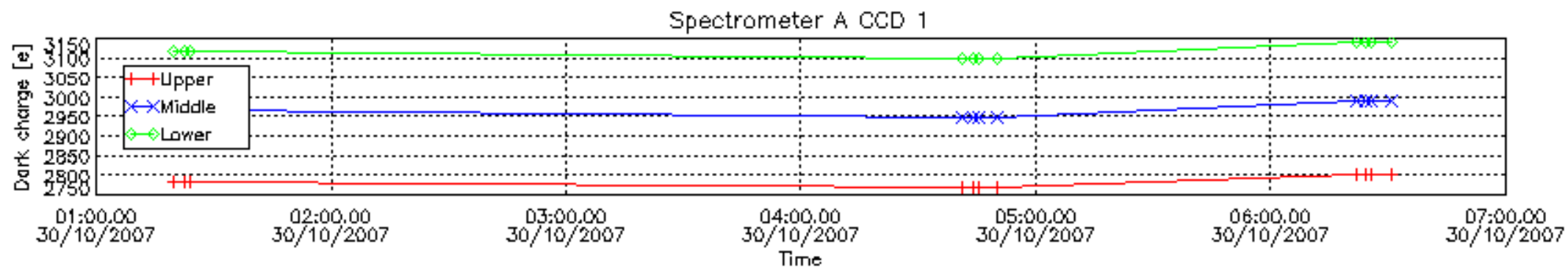
8. Auxiliary Data Files used for the production reported in section 2.4

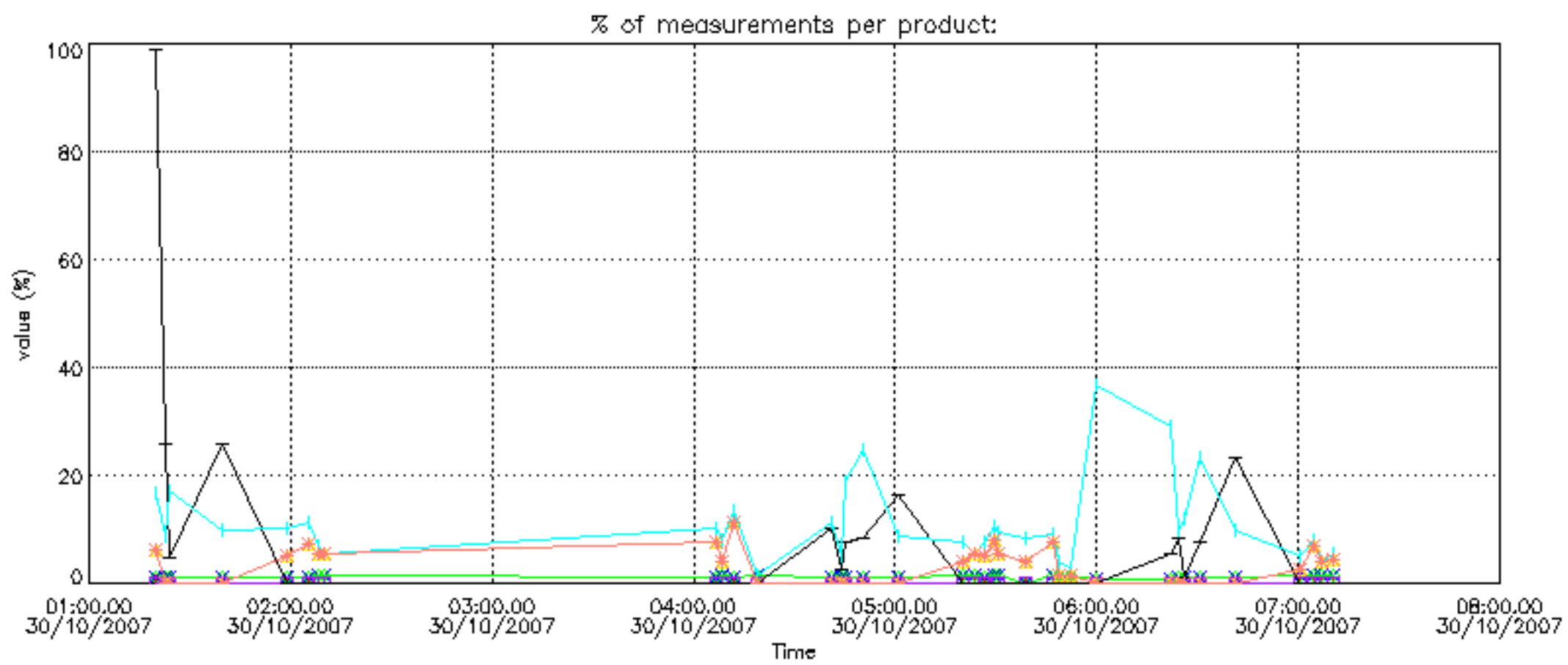
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-OCT-2007 01:19:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	30-OCT-2007 01:19:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-OCT-2007 01:19:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-OCT-2007 01:19:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-OCT-2007 01:19:55
ECMWF_FILE	AUX_ECF_AXNECM20071029_060114_20071029_150000_20071030_030000	1	30-OCT-2007 01:19:55
ECMWF_FILE	AUX_ECF_AXNECM20071029_181937_20071030_030000_20071030_150000	9	30-OCT-2007 04:06:35
OPTIONAL_ECMWF_FILE	MISSING	1	30-OCT-2007 01:19:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071030_010512_000041442063_00002_29615_4457.N1	1	30-OCT-2007 01:19:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071030_040032_000057382063_00004_29617_4459.N1	9	30-OCT-2007 04:06:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071030_054129_000057382063_00005_29618_4460.N1	24	30-OCT-2007 05:47:11

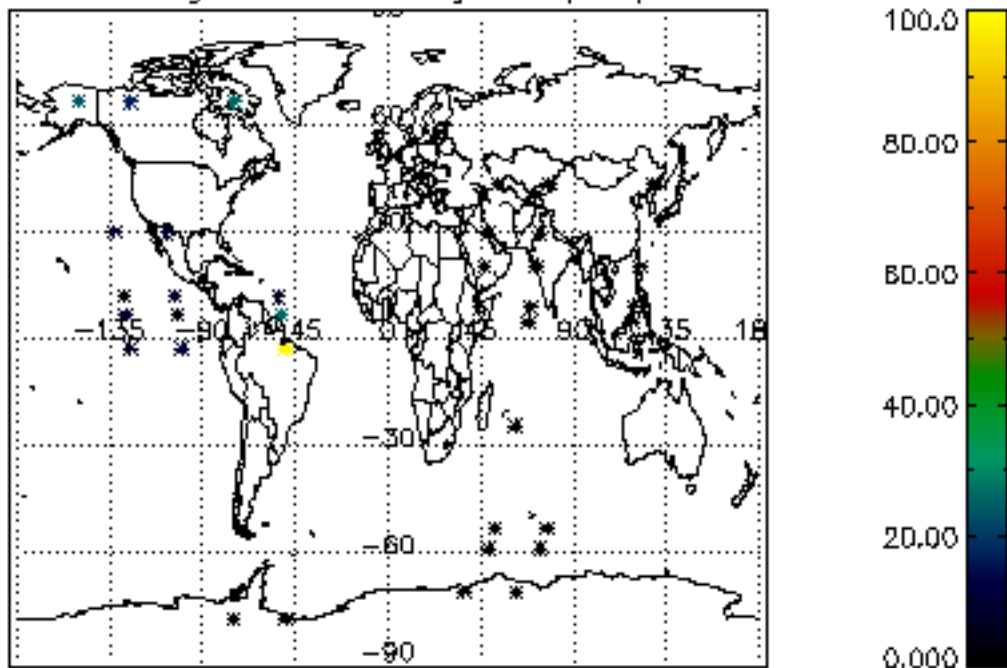




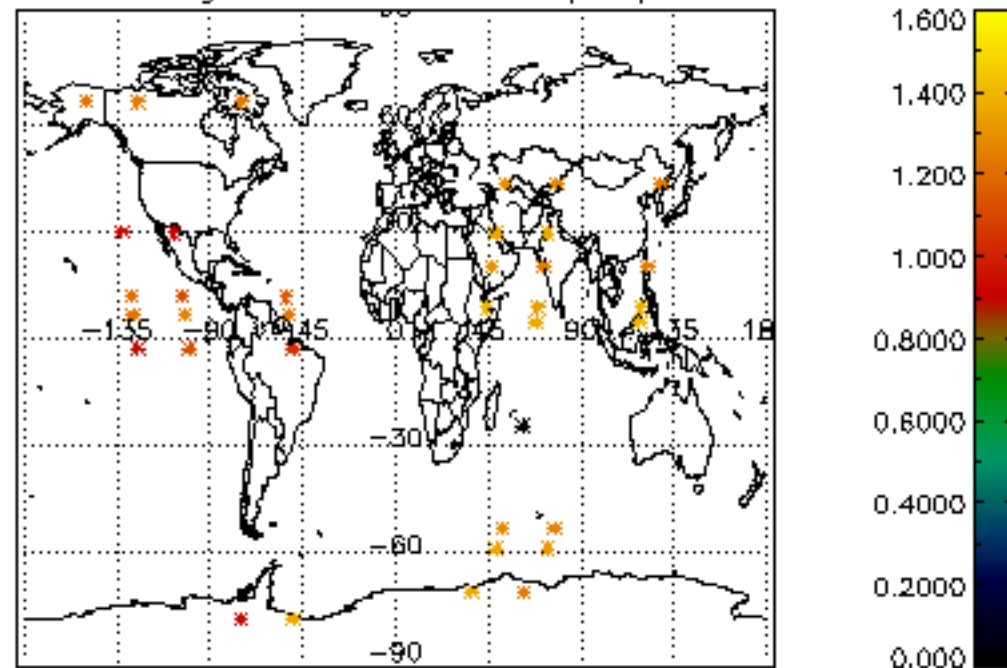




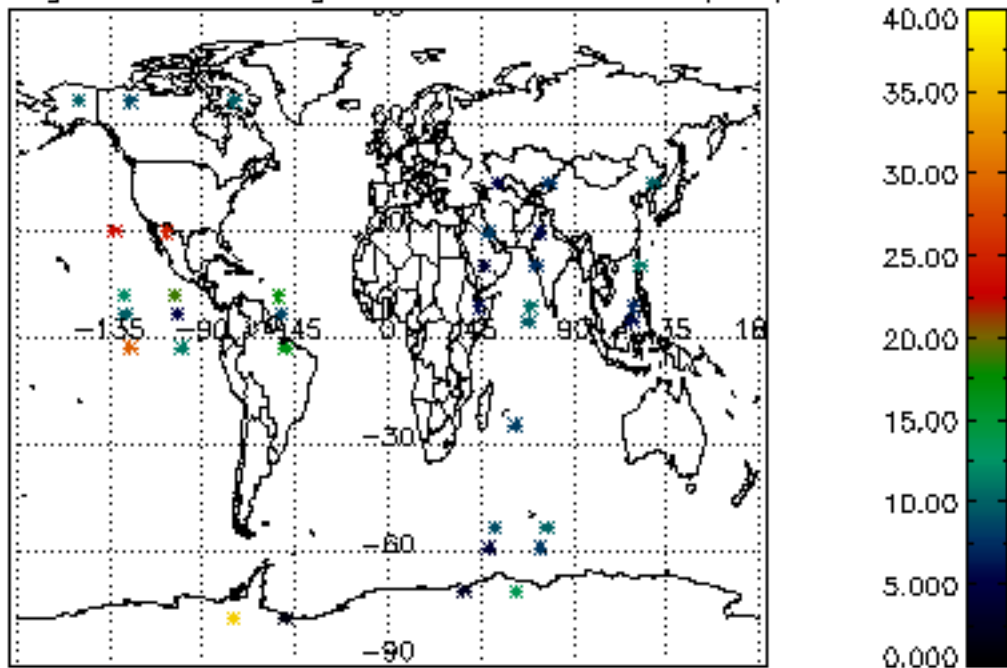
Percentage of cosmic ray hits per profile



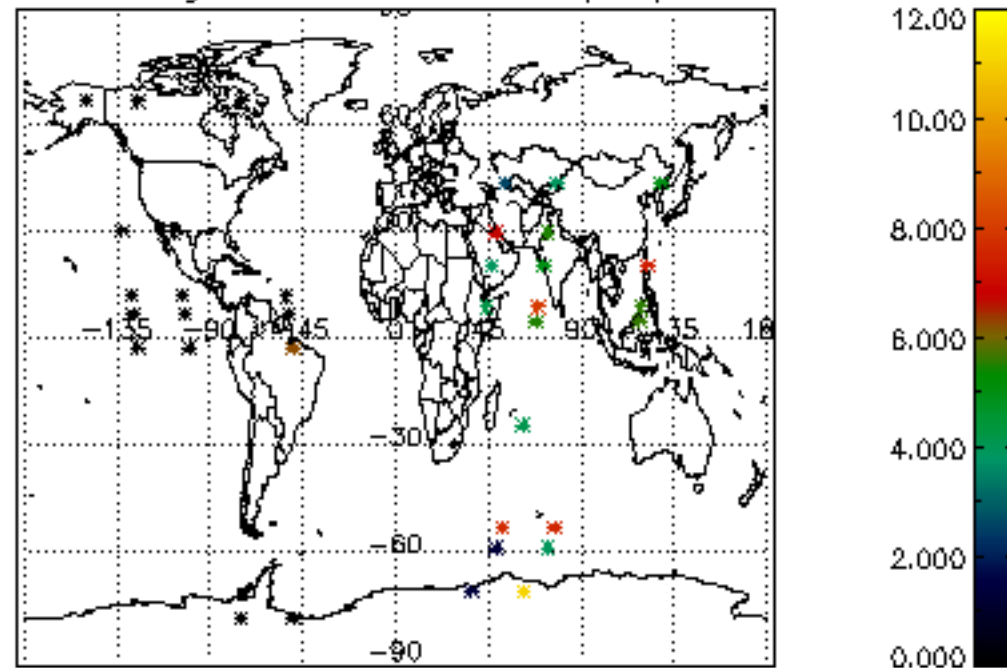
Percentage of datation errors per profile



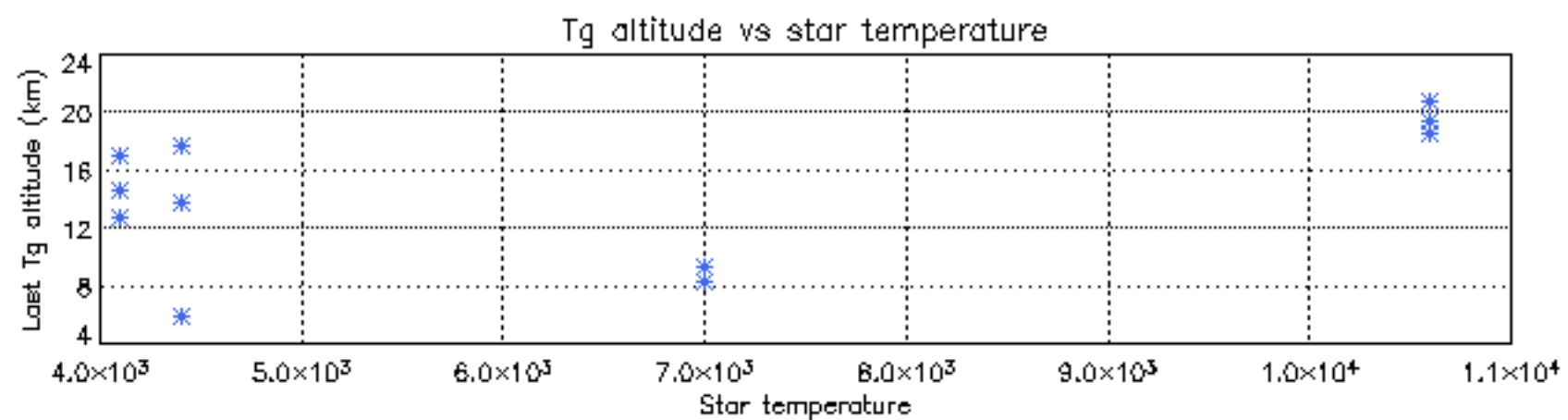
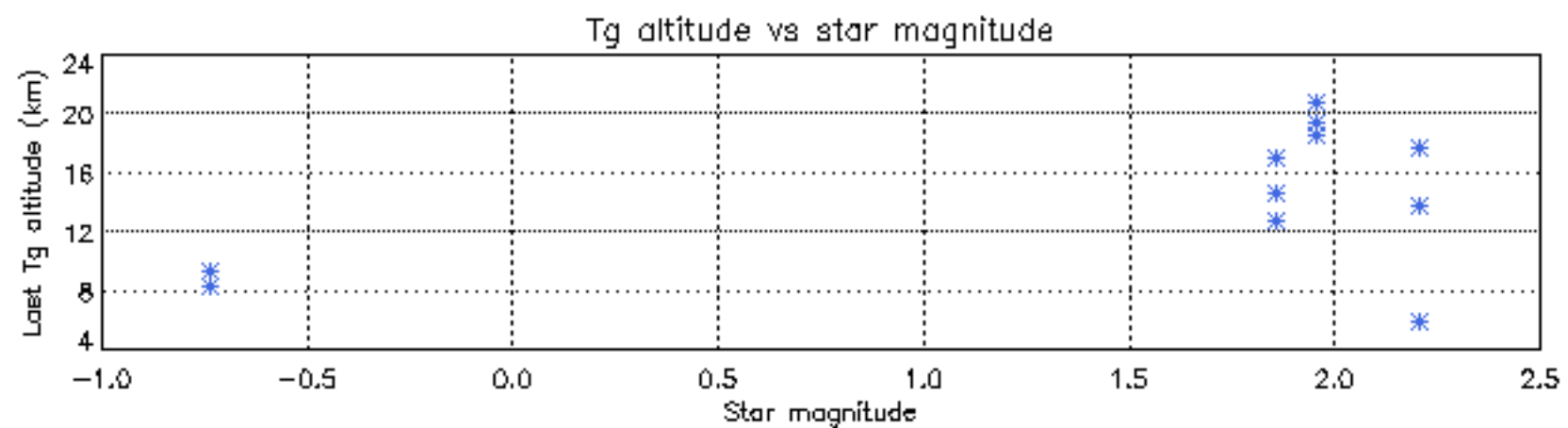
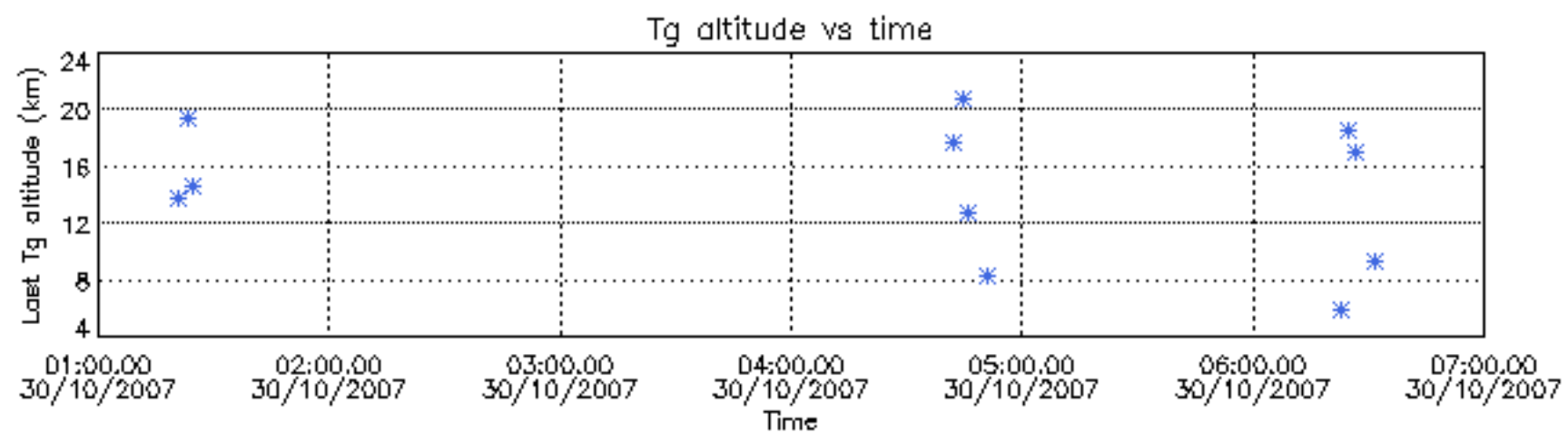
Percentage of star falling outside central band per profile



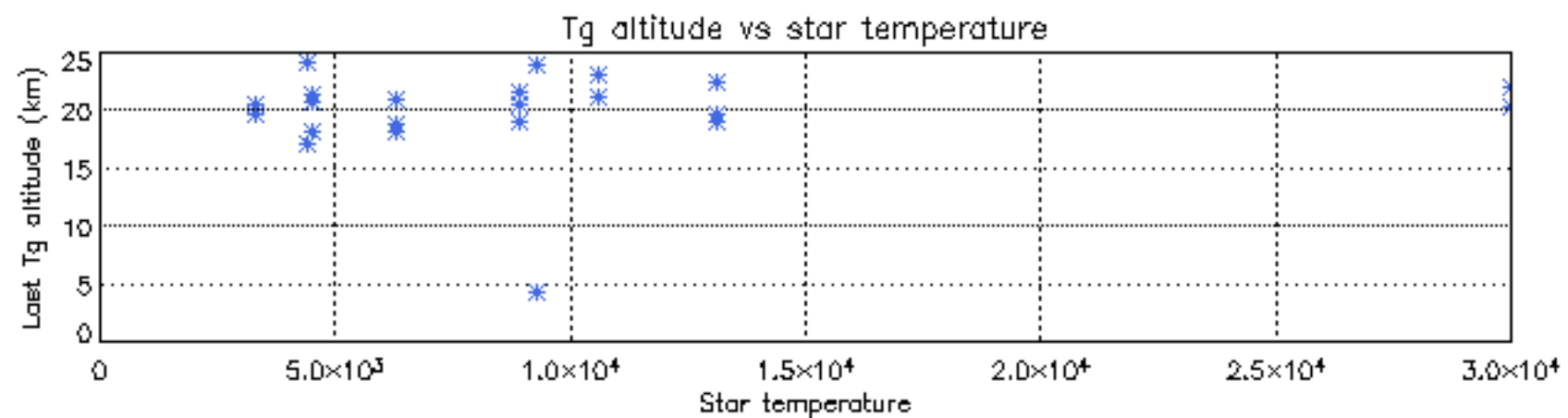
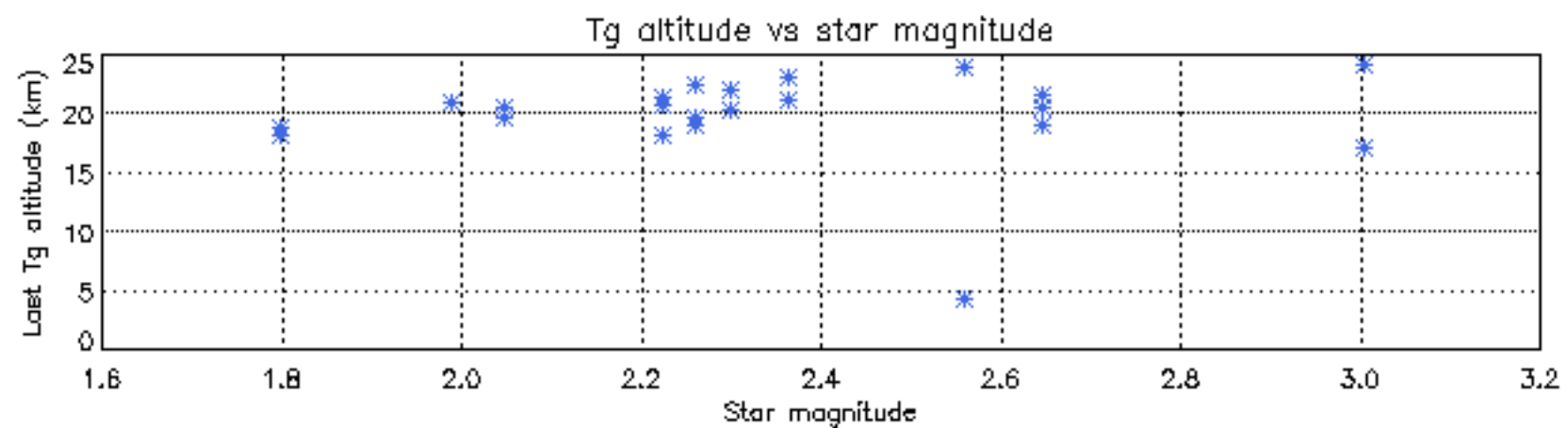
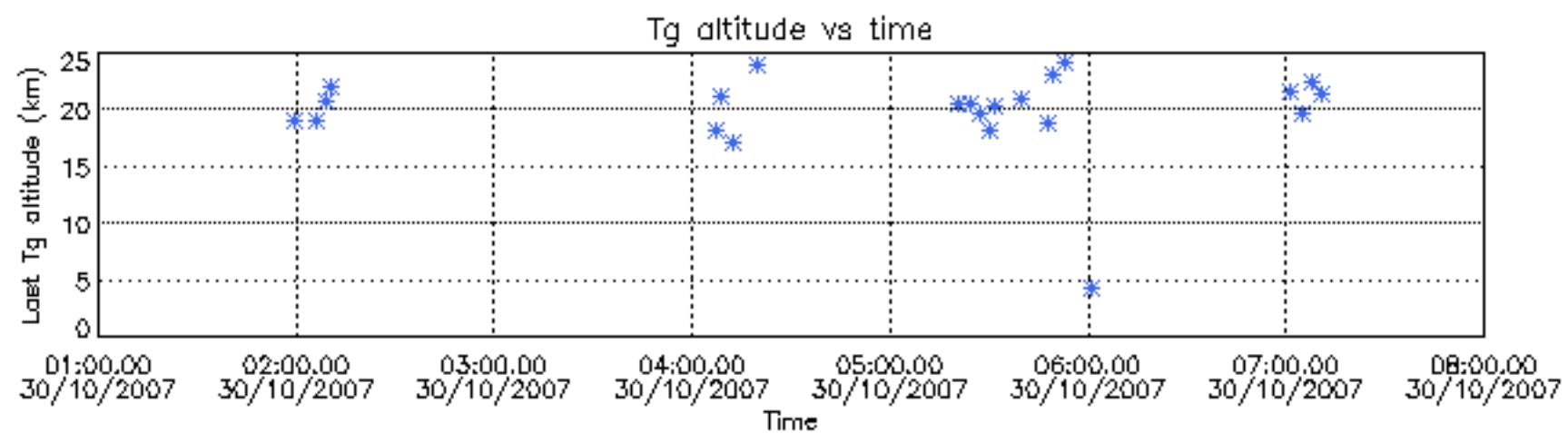
Percentage of saturation errors per profile

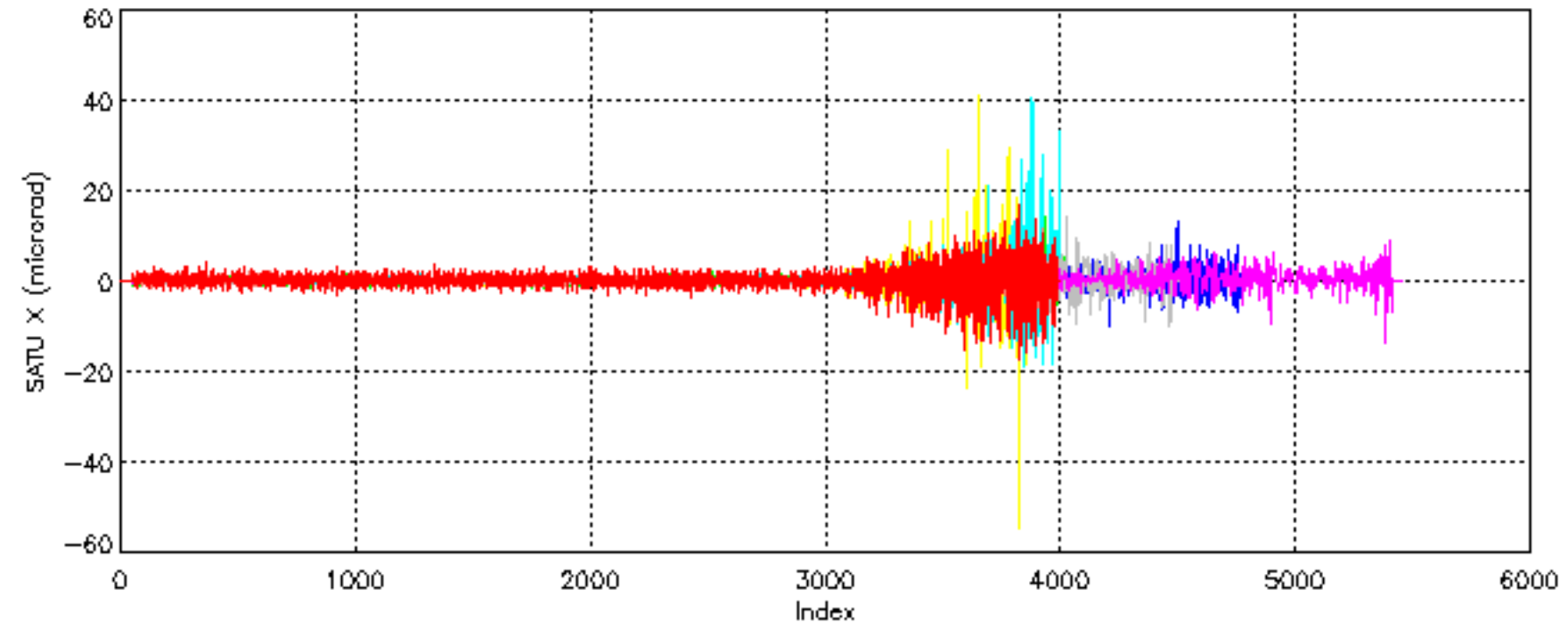


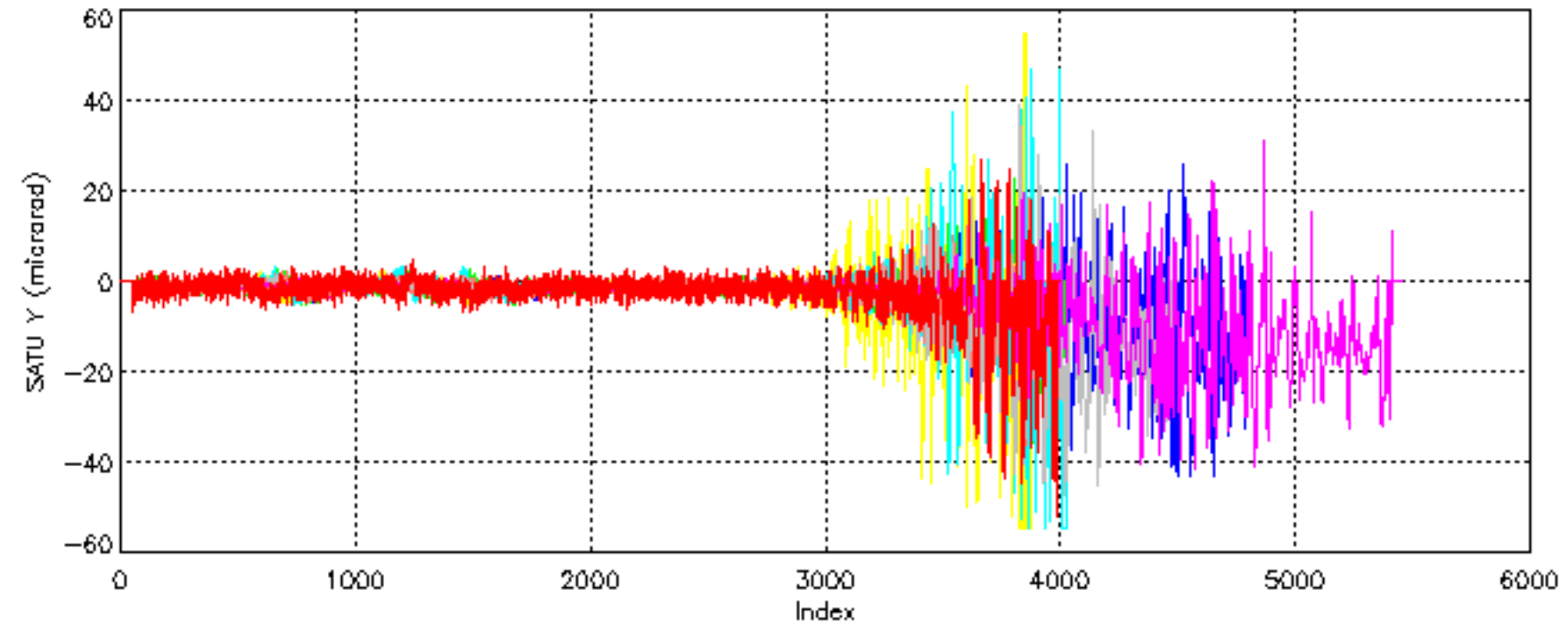
Tangent altitude at which the star is lost

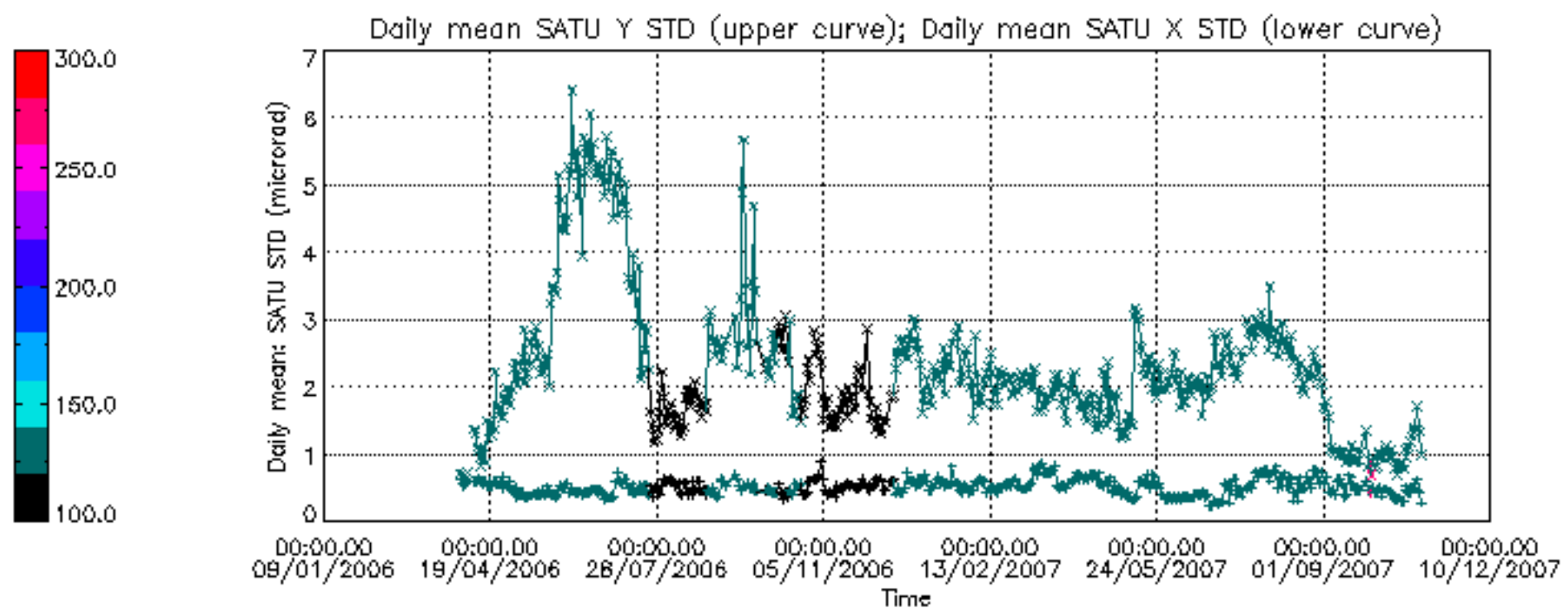


Tangent altitude at which the star is lost









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 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202
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 6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213
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13; 2949.8; 01-OCT-2007 22:28:35; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29213
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6; -212.3; 02-OCT-2007 07:39:28; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29218
7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
10; 179.9; 02-OCT-2007 07:46:01; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29219
11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
12; 824.4; 02-OCT-2007 07:56:45; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
14; 1559.3; 02-OCT-2007 08:09:00; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29219
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2; 2168.4; 02-OCT-2007 08:19:09; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29219
3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
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5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

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 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219
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 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29219
 16; 6773.0; 02-OCT-2007 09:35:54; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29219
 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 3; 2948.1; 02-OCT-2007 10:12:45; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29220
 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29220
 8; 5166.9; 02-OCT-2007 10:49:43; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29220
 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
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 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
 12; 6004.5; 02-OCT-2007 11:03:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29220
 13; 6133.0; 02-OCT-2007 11:05:50; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29220
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 15; 6773.3; 02-OCT-2007 11:16:30; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29220
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 17; 7181.3; 02-OCT-2007 11:23:18; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;29220
 18; 7595.4; 02-OCT-2007 11:30:12; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29220

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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221
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 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221
 14; 6218.1; 02-OCT-2007 12:47:50; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;29221
 15; 6773.7; 02-OCT-2007 12:57:06; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29221
 16; 6861.4; 02-OCT-2007 12:58:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29221
 17; 7181.6; 02-OCT-2007 13:03:54; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29221
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222
 4; 2947.6; 02-OCT-2007 13:33:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29222
 5; 3428.3; 02-OCT-2007 13:41:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29222
 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222
 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222
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 11; 5826.4; 02-OCT-2007 14:21:55; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29222
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 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222
 14; 6134.6; 02-OCT-2007 14:27:03; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29222
 15; 6218.9; 02-OCT-2007 14:28:27; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29222
 16; 6774.2; 02-OCT-2007 14:37:42; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29222
 17; 6861.9; 02-OCT-2007 14:39:10; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29222
 18; 7181.9; 02-OCT-2007 14:44:30; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29222

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 2; 1560.2; 02-OCT-2007 19:53:12; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;29226
 3; 2169.0; 02-OCT-2007 20:03:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29226
 4; 2386.4; 02-OCT-2007 20:06:59; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29226
 5; 2946.6; 02-OCT-2007 20:16:19; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29226
 6; 3428.3; 02-OCT-2007 20:24:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29226
 7; 3907.6; 02-OCT-2007 20:32:20; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29226
 8; 3998.0; 02-OCT-2007 20:33:50; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29226
 9; 4591.5; 02-OCT-2007 20:43:44; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29226

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 5; 101.6; 02-OCT-2007 21:09:30; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29227
 6; 185.9; 02-OCT-2007 21:10:54; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29227
 7; 739.6; 02-OCT-2007 21:20:08; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29227
 8; 827.4; 02-OCT-2007 21:21:35; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;29227
 9; 1147.1; 02-OCT-2007 21:26:55; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29227
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 11; 2168.9; 02-OCT-2007 21:43:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29227
 12; 2386.4; 02-OCT-2007 21:47:35; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29227
 13; 2946.4; 02-OCT-2007 21:56:54; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29227
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 15; 3907.7; 02-OCT-2007 22:12:56; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29227
 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227
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 4; 102.4; 02-OCT-2007 22:50:06; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29228
 5; 186.7; 02-OCT-2007 22:51:31; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29228
 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
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 10; 2169.0; 02-OCT-2007 23:24:33; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29228
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 12; 2946.1; 02-OCT-2007 23:37:30; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29228
 13; 3428.1; 02-OCT-2007 23:45:32; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29228
 14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
 15; 3998.2; 02-OCT-2007 23:55:02; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29228
 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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 3; 2386.5; 02-OCT-2007 15:05:11; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29223
 4; 2947.4; 02-OCT-2007 15:14:32; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29223
 5; 3428.4; 02-OCT-2007 15:22:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29223
 6; 3907.4; 02-OCT-2007 15:30:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29223
 7; 3997.8; 02-OCT-2007 15:32:02; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;29223
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6; 3428.3; 02-OCT-2007 17:03:09; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29224
7; 3907.5; 02-OCT-2007 17:11:08; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29224
8; 3997.8; 02-OCT-2007 17:12:38; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;29224
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 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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 3; 242.6; 07-OCT-2007 23:35:34; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29300
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 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
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 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
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 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
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 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 4; -1431.5; 07-OCT-2007 06:21:40; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29289
 5; -838.0; 07-OCT-2007 06:31:34; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29289
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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
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 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
 7; 4004.9; 07-OCT-2007 07:52:17; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
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17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
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4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
5; 3001.8; 07-OCT-2007 10:56:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29292
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4; 2896.8; 12-OCT-2007 18:20:31; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29368
5; 2979.8; 12-OCT-2007 18:21:54; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29368
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 3; -1819.5; 16-OCT-2007 06:32:27; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29418
 4; -1401.4; 16-OCT-2007 06:39:25; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;29418
 5; -1205.6; 16-OCT-2007 06:42:41; Bright; 51.5; 22; 32Alp Leo ; 1.36; 15200;occ; 103; 0;29418
 6; -762.1; 16-OCT-2007 06:50:05; Dark ; 55.5; 48; 30Alp Hya ; 1.98; 4100;occ; 111; 0;29418
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 8; 0.9; 16-OCT-2007 07:02:47; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29419
 9; 132.5; 16-OCT-2007 07:04:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29419
 10; 257.6; 16-OCT-2007 07:07:04; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29419
 11; 338.2; 16-OCT-2007 07:08:25; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;29419
 12; 1045.1; 16-OCT-2007 07:20:12; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;29419
 13; 1587.5; 16-OCT-2007 07:29:14; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29419

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 3; 2403.5; 16-OCT-2007 07:42:50; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29419
 4; 2554.7; 16-OCT-2007 07:45:21; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;29419
 5; 2886.3; 16-OCT-2007 07:50:53; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29419
 6; 2967.8; 16-OCT-2007 07:52:14; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29419
 7; 3426.0; 16-OCT-2007 07:59:53; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29419
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 11; 4634.6; 16-OCT-2007 08:20:01; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;29419
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 13; 5274.5; 16-OCT-2007 08:30:41; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;29419
 14; 5847.0; 16-OCT-2007 08:40:14; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29419
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 17; 6294.4; 16-OCT-2007 08:47:41; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29419
 18; 6374.9; 16-OCT-2007 08:49:02; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29419
 19; 7081.6; 16-OCT-2007 09:00:48; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29419
 20; 7623.5; 16-OCT-2007 09:09:50; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;29419

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 3; 2554.4; 16-OCT-2007 09:25:57; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29420
 4; 2886.1; 16-OCT-2007 09:31:29; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29420
 5; 2967.6; 16-OCT-2007 09:32:50; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29420
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 11; 4831.0; 16-OCT-2007 10:03:53; Bright; 57.0; 22; 32Alp Leo ; 1.36; 15200;occ; 114; 0;29420
 12; 5275.2; 16-OCT-2007 10:11:18; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;29420
 13; 5847.5; 16-OCT-2007 10:20:50; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29420
 14; 6038.3; 16-OCT-2007 10:24:01; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29420
 15; 6170.1; 16-OCT-2007 10:26:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29420
 16; 6295.2; 16-OCT-2007 10:28:18; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29420
 17; 6375.7; 16-OCT-2007 10:29:38; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;29420
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 19; 7623.6; 16-OCT-2007 10:50:26; Dark ; 40.0; 52; 16Bet Cet ; 2.04; 4500;occ; 80; 0;29420

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 3; 2403.6; 16-OCT-2007 11:04:02; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29421
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 5; 2885.9; 16-OCT-2007 11:12:04; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29421
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 7; 3425.8; 16-OCT-2007 11:21:04; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29421
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 11; 4635.1; 16-OCT-2007 11:41:13; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;29421
 12; 4831.3; 16-OCT-2007 11:44:30; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;29421

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19; 7082.6; 16-OCT-2007 12:22:01; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29421
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 5; 2885.6; 16-OCT-2007 12:52:40; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29422
 6; 2967.0; 16-OCT-2007 12:54:01; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29422
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11; 4635.4; 16-OCT-2007 13:21:50; Bright; 61.0; 166; 17Eps Leo ; 2.98; 6000;occ; 122; 0;29422
12; 4831.7; 16-OCT-2007 13:25:06; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;29422
13; 5276.6; 16-OCT-2007 13:32:31; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;29422
14; 5848.7; 16-OCT-2007 13:42:03; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29422
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16; 6171.9; 16-OCT-2007 13:47:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29422
17; 6297.0; 16-OCT-2007 13:49:31; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29422
18; 6377.4; 16-OCT-2007 13:50:52; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29422
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10; 4216.9; 16-OCT-2007 14:55:27; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29423
11; 4635.6; 16-OCT-2007 15:02:26; Bright; 61.0; 166; 17Eps Leo ; 2.98; 6000;occ; 122; 0;29423
12; 4832.1; 16-OCT-2007 15:05:42; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;29423
13; 5277.3; 16-OCT-2007 15:13:07; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;29423
14; 5849.4; 16-OCT-2007 15:22:40; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;29423
15; 6040.6; 16-OCT-2007 15:25:51; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;29423
16; 6172.9; 16-OCT-2007 15:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29423
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 5; 2885.4; 16-OCT-2007 16:13:51; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29424
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10; 4217.2; 16-OCT-2007 16:36:03; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29424
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14; 5850.0; 16-OCT-2007 17:03:16; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29424
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18; 6379.1; 16-OCT-2007 17:12:05; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;29424
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 4; 2403.5; 16-OCT-2007 19:27:02; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29426
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 5; 2547.9; 17-OCT-2007 20:38:25; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29441
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5; 2879.0; 19-OCT-2007 11:17:42; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29464
6; 2958.8; 19-OCT-2007 11:19:02; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29464
7; 3425.4; 19-OCT-2007 11:26:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29464

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 12; 4847.0; 19-OCT-2007 11:50:30; Bright; 41.5; 22; 32Alp Leo ; 1.36; 15200;occ; 83; 0;29464
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 4; 2541.3; 19-OCT-2007 12:52:40; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29465
 5; 2878.9; 19-OCT-2007 12:58:18; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29465
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 13; 5876.0; 19-OCT-2007 13:48:15; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29465
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 5; 2878.8; 19-OCT-2007 14:38:54; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29466
 6; 2958.4; 19-OCT-2007 14:40:13; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29466
 7; 3425.6; 19-OCT-2007 14:48:01; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;29466
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 5; 2878.6; 19-OCT-2007 16:19:30; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29467
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 10; 4221.1; 19-OCT-2007 16:41:52; Bright; 53.0; 174; 52Psi UMA ; 3.00; 4400;occ; 106; 0;29467
 11; 4689.0; 19-OCT-2007 16:49:40; Bright; 40.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 80; 0;29467
 12; 4848.2; 19-OCT-2007 16:52:19; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;29467
 13; 5877.4; 19-OCT-2007 17:09:28; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;29467
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 16; 6414.1; 19-OCT-2007 17:18:25; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29467
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7; 2957.8; 19-OCT-2007 19:42:01; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29469
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 3; 2171.8; 22-OCT-2007 17:54:03; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29511
 4; 2405.9; 22-OCT-2007 17:57:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29511
 5; 2530.7; 22-OCT-2007 18:00:02; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29511
 6; 2873.4; 22-OCT-2007 18:05:45; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29511
 7; 2951.3; 22-OCT-2007 18:07:03; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29511
 8; 3425.0; 22-OCT-2007 18:14:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29511
 9; 3626.6; 22-OCT-2007 18:18:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;29511
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 12; 4224.2; 22-OCT-2007 18:28:16; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;29511
 13; 4641.2; 22-OCT-2007 18:35:13; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29511
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 16; 5991.5; 22-OCT-2007 18:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29511
 17; 6084.5; 22-OCT-2007 18:59:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29511
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 19; 6449.7; 22-OCT-2007 19:05:21; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;29511
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 4; 1601.4; 22-OCT-2007 19:25:09; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29512
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 18; 5992.1; 22-OCT-2007 20:38:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29512
 19; 6085.1; 22-OCT-2007 20:39:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29512
 20; 6202.7; 22-OCT-2007 20:41:50; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29512
 21; 6450.6; 22-OCT-2007 20:45:58; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;29512
 22; 6865.5; 22-OCT-2007 20:52:53; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29512
 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 5; 167.4; 23-OCT-2007 00:03:03; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29515
 6; 416.2; 23-OCT-2007 00:07:12; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29515
 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
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 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
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 4; -1811.5; 23-OCT-2007 02:51:16; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29516
 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
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 9; 51.5; 23-OCT-2007 03:22:19; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29517
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 11; 417.9; 23-OCT-2007 03:28:25; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29517
 12; 830.6; 23-OCT-2007 03:35:18; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29517
 13; 915.9; 23-OCT-2007 03:36:43; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29517
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 15; 1602.3; 23-OCT-2007 03:48:09; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29517
 16; 2172.4; 23-OCT-2007 03:57:40; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29517
 17; 2406.5; 23-OCT-2007 04:01:34; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29517
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 20; 2950.4; 23-OCT-2007 04:10:38; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29517
 21; 3425.1; 23-OCT-2007 04:18:32; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29517
 22; 3628.0; 23-OCT-2007 04:21:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29517

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13; 2527.6; 23-OCT-2007 22:30:10; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29528
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 18; 6962.4; 26-OCT-2007 10:25:02; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29563
 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
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 4; 2521.9; 26-OCT-2007 10:51:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29564
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 21; 7645.7; 26-OCT-2007 12:17:01; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29564

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 3; 2411.6; 26-OCT-2007 12:30:23; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29565
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 5; 2869.2; 26-OCT-2007 12:38:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29565
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 15; 6027.5; 26-OCT-2007 13:30:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29565
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 18; 6878.3; 26-OCT-2007 13:44:50; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29565
 19; 6962.8; 26-OCT-2007 13:46:14; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29565
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 3; 2411.7; 26-OCT-2007 14:10:59; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29566
 4; 2521.7; 26-OCT-2007 14:12:49; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29566
 5; 2869.2; 26-OCT-2007 14:18:37; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29566
 6; 2944.6; 26-OCT-2007 14:19:52; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29566
 7; 3424.6; 26-OCT-2007 14:27:52; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29566
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 11; 4227.3; 26-OCT-2007 14:41:15; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29566
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19; 6963.0; 26-OCT-2007 15:26:50; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29566
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 6; 2944.5; 26-OCT-2007 16:00:28; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29567
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11; 4227.5; 26-OCT-2007 16:21:51; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29567
12; 4653.4; 26-OCT-2007 16:28:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29567
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15; 6029.0; 26-OCT-2007 16:51:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29567
16; 6118.4; 26-OCT-2007 16:53:22; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29567
17; 6219.0; 26-OCT-2007 16:55:02; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;29567
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 9; 3917.9; 26-OCT-2007 17:57:17; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29568
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12; 4653.4; 26-OCT-2007 18:09:33; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29568
13; 5833.5; 26-OCT-2007 18:29:13; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29568
14; 6029.7; 26-OCT-2007 18:32:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29568
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13; 4013.2; 26-OCT-2007 19:39:29; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29569
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18; 6126.0; 26-OCT-2007 20:14:41; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;29569
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20; 6879.3; 26-OCT-2007 20:27:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29569
21; 6963.6; 26-OCT-2007 20:28:39; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29569

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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
 19; 4654.1; 26-OCT-2007 23:11:21; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29571

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 18; 4227.6; 27-OCT-2007 00:44:51; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29572
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4;-1380.7; 27-OCT-2007 07:34:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29576
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5; 2868.7; 27-OCT-2007 08:45:12; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29577
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14; 2867.5; 31-OCT-2007 06:38:42; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29633

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