

GOMOS Daily Report 06-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	08OCT2007 13:58:27
Data source version	GOMOS/5.00
Start time of products	06-10-2007 (06OCT2007 00:00:00)
Stop time of products	07-10-2007 (07OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

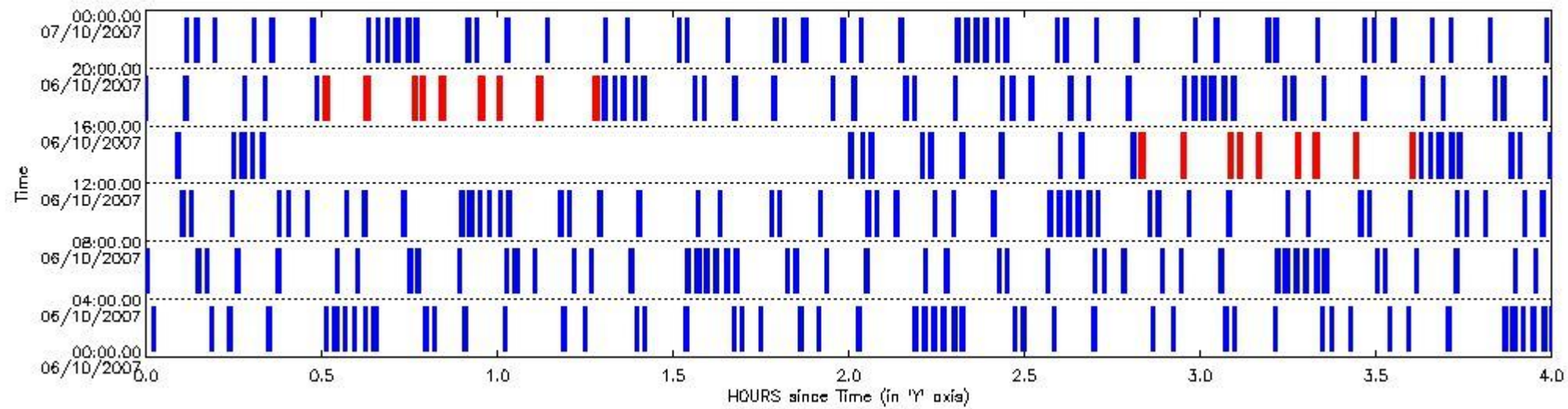
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

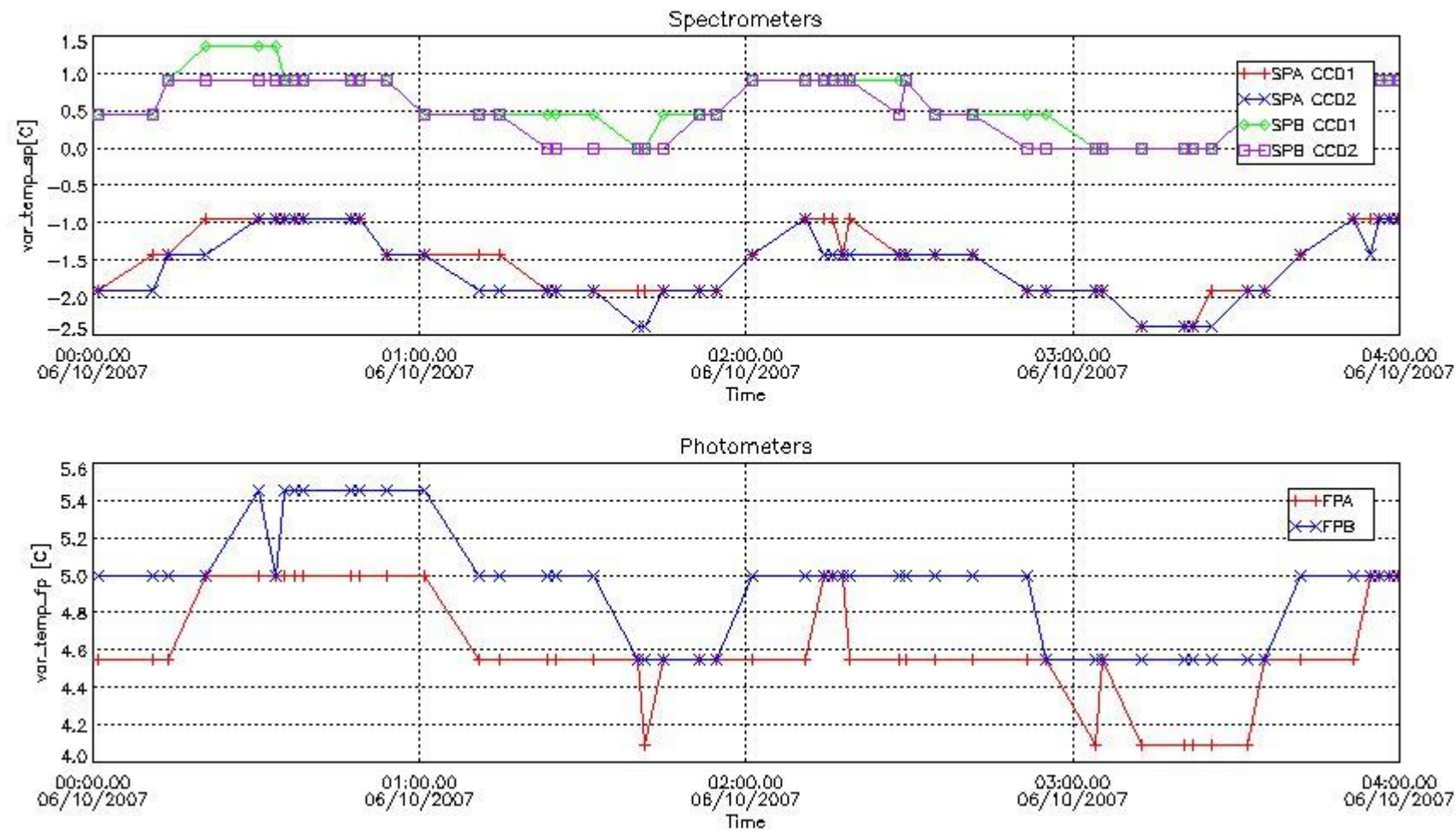
UTC start time	Star name	Star ID	Orbit
06-OCT-2007 14:49:35	27GamCas	76	29280
06-OCT-2007 14:56:37	1AlpUMi	49	29280
06-OCT-2007 15:04:42	50AlpUMa	36	29280
06-OCT-2007 15:06:13	48BetUMa	82	29280
06-OCT-2007 15:09:29	52PsiUMa	174	29280
06-OCT-2007 15:16:12	17EpsLeo	166	29280
06-OCT-2007 15:19:19	32AlpLeo	22	29280
06-OCT-2007 15:26:03	30AlpHya	48	29280
06-OCT-2007 15:35:42	LamVel	65	29280
06-OCT-2007 16:30:10	27GamCas	76	29281
06-OCT-2007 16:37:13	1AlpUMi	49	29281
06-OCT-2007 16:45:18	50AlpUMa	36	29281
06-OCT-2007 16:46:49	48BetUMa	82	29281
06-OCT-2007 16:50:05	52PsiUMa	174	29281
06-OCT-2007 16:56:48	17EpsLeo	166	29281

06-OCT-2007 16:59:55	32AlpLeo	22	29281
06-OCT-2007 17:06:39	30AlpHya	48	29281
06-OCT-2007 17:16:19	LamVel	65	29281

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_1PNPDE20071006_000052_000000362062_00159_29271_2091.N1	06-OCT-2007 00:00:52	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	29271	No
2	GOM_TRA_1PNPDE20071006_001050_000000382062_00159_29271_2092.N1	06-OCT-2007 00:10:50	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	29271	No
3	GOM_TRA_1PNPDE20071006_001356_000000362062_00159_29271_2093.N1	06-OCT-2007 00:13:56	Bright	35.500	22	32Alp Leo	1.3600	15200.	71	29271	No
4	GOM_TRA_1PNPDE20071006_002038_000000452062_00159_29271_2094.N1	06-OCT-2007 00:20:38	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	29271	No
5	GOM_TRA_1PNPDE20071006_003018_000000452062_00159_29271_2233.N1	06-OCT-2007 00:30:18	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	29271	No
6	GOM_TRA_1PNPDE20071006_003333_000000382062_00159_29271_2234.N1	06-OCT-2007 00:33:33	Dark	37.500	46	Del Vel	1.9540	10600.	75	29271	No
7	GOM_TRA_1PNPDE20071006_003509_000000432062_00160_29272_2235.N1	06-OCT-2007 00:35:09	Dark	43.000	41	Eps Car	1.8600	4100.0	86	29272	No
8	GOM_TRA_1PNPDE20071006_003701_000000442062_00160_29272_2236.N1	06-OCT-2007 00:37:01	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	29272	No
9	GOM_TRA_1PNPDE20071006_003825_000000612062_00160_29272_2237.N1	06-OCT-2007 00:38:25	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	29272	No
10	GOM_TRA_1PNPDE20071006_004721_000000392062_00160_29272_2238.N1	06-OCT-2007 00:47:21	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29272	No
11	GOM_TRA_1PNPDE20071006_004849_000000422062_00160_29272_2239.N1	06-OCT-2007 00:48:49	Dark	41.500	9	Alp Eri	0.45300	24000.	83	29272	No
12	GOM_TRA_1PNPDE20071006_005404_000000402062_00160_29272_2240.N1	06-OCT-2007 00:54:04	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	29272	No
13	GOM_TRA_1PNPDE20071006_010051_000000432062_00160_29272_2241.N1	06-OCT-2007 01:00:51	Straylight	42.500	52	16Bet Cet	2.0370	4500.0	85	29272	No
14	GOM_TRA_1PNPDE20071006_011058_000000372062_00160_29272_2242.N1	06-OCT-2007 01:10:58	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29272	No
15	GOM_TRA_1PNPDE20071006_011433_000000382062_00160_29272_2243.N1	06-OCT-2007 01:14:33	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29272	No
16	GOM_TRA_1PNPDE20071006_012328_000000362062_00160_29272_2244.N1	06-OCT-2007 01:23:28	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29272	No
17	GOM_TRA_1PNPDE20071006_012453_000000352062_00160_29272_2245.N1	06-OCT-2007 01:24:53	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29272	No
18	GOM_TRA_1PNPDE20071006_013152_000000362062_00160_29272_2246.N1	06-OCT-2007 01:31:52	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29272	No
19	GOM_TRA_1PNPDE20071006_013957_000000372062_00160_29272_2247.N1	06-OCT-2007 01:39:57	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29272	No
20	GOM_TRA_1PNPDE20071006_014128_000000352062_00160_29272_2248.N1	06-OCT-2007 01:41:28	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29272	No
21	GOM_TRA_1PNPDE20071006_014444_000000332062_00160_29272_2249.N1	06-OCT-2007 01:44:44	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29272	No
22	GOM_TRA_1PNPDE20071006_015126_000000362062_00160_29272_2250.N1	06-OCT-2007 01:51:26	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	29272	No
23	GOM_TRA_1PNPDE20071006_015432_000000342062_00160_29272_2251.N1	06-OCT-2007 01:54:32	Bright	34.000	22	32Alp Leo	1.3600	15200.	68	29272	No
24	GOM_TRA_1PNPDE20071006_020114_000000452062_00160_29272_2374.N1	06-OCT-2007 02:01:14	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29272	No
25	GOM_TRA_1PNPDE20071006_021054_000000402062_00160_29272_2375.N1	06-OCT-2007 02:10:54	Dark	39.500	65	Lam Vel	2.2040	4400.0	79	29272	No
26	GOM_TRA_1PNPDE20071006_021410_000000392062_00160_29272_2376.N1	06-OCT-2007 02:14:10	Dark	39.000	46	Del Vel	1.9540	10600.	78	29272	No
27	GOM_TRA_1PNPDE20071006_021545_000000432062_00161_29273_2377.N1	06-OCT-2007 02:15:45	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29273	No
28	GOM_TRA_1PNPDE20071006_021738_000000462062_00161_29273_2378.N1	06-OCT-2007 02:17:38	Dark	46.000	161	Tau Pup	2.9310	4500.0	92	29273	No
29	GOM_TRA_1PNPDE20071006_021902_000000492062_00161_29273_2379.N1	06-OCT-2007 02:19:02	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29273	No
30	GOM_TRA_1PNPDE20071006_022757_000000382062_00161_29273_2380.N1	06-OCT-2007 02:27:57	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29273	No
31	GOM_TRA_1PNPDE20071006_022925_000000392062_00161_29273_2381.N1	06-OCT-2007 02:29:25	Dark	38.500	9	Alp Eri	0.45300	24000.	77	29273	No
32	GOM_TRA_1PNPDE20071006_023440_000000442062_00161_29273_2382.N1	06-OCT-2007 02:34:40	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	29273	No
33	GOM_TRA_1PNPDE20071006_024127_000000472062_00161_29273_2383.N1	06-OCT-2007 02:41:27	Straylight	47.000	52	16Bet Cet	2.0370	4500.0	94	29273	No
34	GOM_TRA_1PNPDE20071006_025134_000000372062_00161_29273_2384.N1	06-OCT-2007 02:51:34	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29273	No
35	GOM_TRA_1PNPDE20071006_025509_000000352062_00161_29273_2385.N1	06-OCT-2007 02:55:09	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	29273	No
36	GOM_TRA_1PNPDE20071006_030403_000000392062_00161_29273_2386.N1	06-OCT-2007 03:04:03	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	29273	No
37	GOM_TRA_1PNPDE20071006_030529_000000352062_00161_29273_2387.N1	06-OCT-2007 03:05:29	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	29273	No
38	GOM_TRA_1PNPDE20071006_031228_000000362062_00161_29273_2388.N1	06-OCT-2007 03:12:28	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29273	No
39	GOM_TRA_1PNPDE20071006_032033_000000372062_00161_29273_2599.N1	06-OCT-2007 03:20:33	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29273	No
40	GOM_TRA_1PNPDE20071006_032204_000000342062_00161_29273_2600.N1	06-OCT-2007 03:22:04	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	29273	No
41	GOM_TRA_1PNPDE20071006_032520_000000392062_00161_29273_2601.N1	06-OCT-2007 03:25:20	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	29273	No
42	GOM_TRA_1PNPDE20071006_033202_000000372062_00161_29273_2602.N1	06-OCT-2007 03:32:02	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	29273	No
43	GOM_TRA_1PNPDE20071006_033508_000000342062_00161_29273_2603.N1	06-OCT-2007 03:35:08	Bright	34.000	22	32Alp Leo	1.3600	15200.	68	29273	No
44	GOM_TRA_1PNPDE20071006_034151_000000552062_00161_29273_2604.N1	06-OCT-2007 03:41:51	Twilight	55.000	48	30Alp Hya	1.9770	4100.0	110	29273	No
45	GOM_TRA_1PNPDE20071006_035131_000000522062_00161_29273_2605.N1	06-OCT-2007 03:51:31	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	29273	No
46	GOM_TRA_1PNPDE20071006_035446_000000382062_00161_29273_2606.N1	06-OCT-2007 03:54:46	Dark	37.500	46	Del Vel	1.9540	10600.	75	29273	No
47	GOM_TRA_1PNPDE20071006_035621_000000502062_00162_29274_2607.N1	06-OCT-2007 03:56:21	Dark	50.000	41	Eps Car	1.8600	4100.0	100	29274	No
48	GOM_TRA_1PNPDE20071006_035815_000000472062_00162_29274_2608.N1	06-OCT-2007 03:58:15	Dark	47.000	161	Tau Pup	2.9310	4500.0	94	29274	No
49	GOM_TRA_1PNPDE20071006_035939_000000472062_00162_29274_2609.N1	06-OCT-2007 03:59:39	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29274	No

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



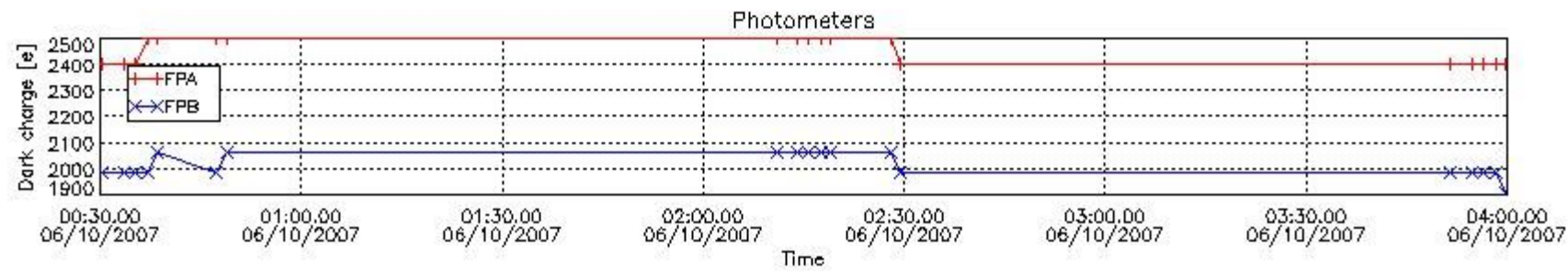
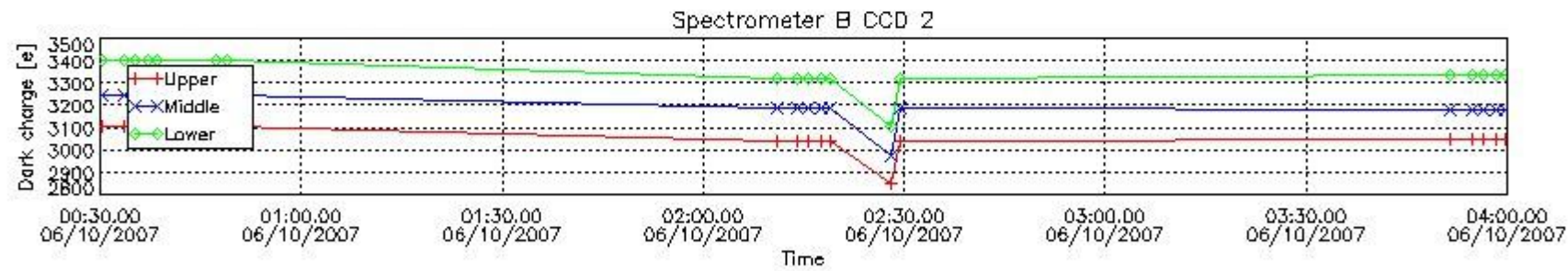
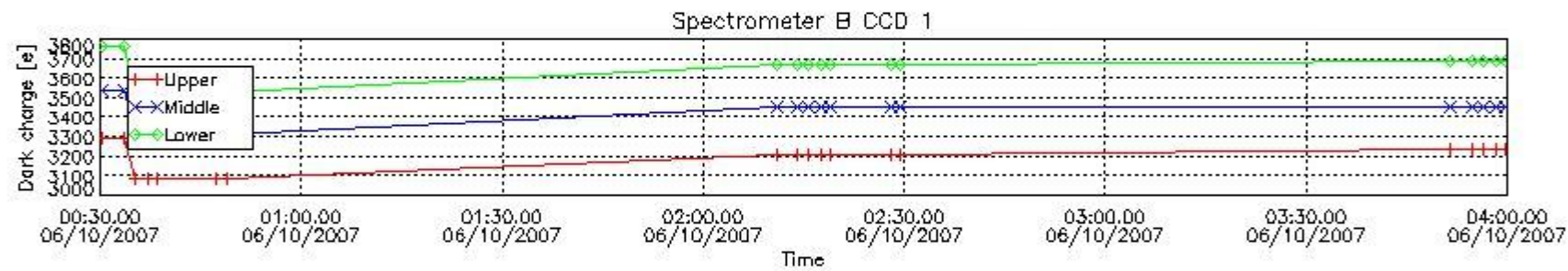
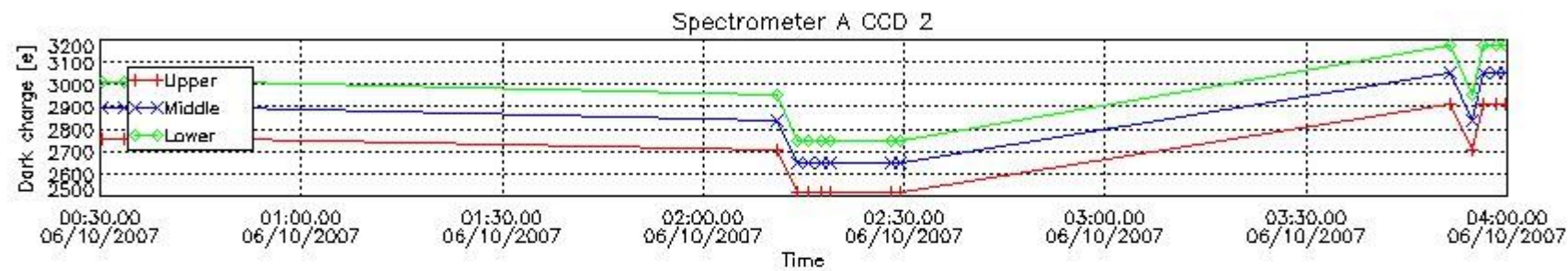
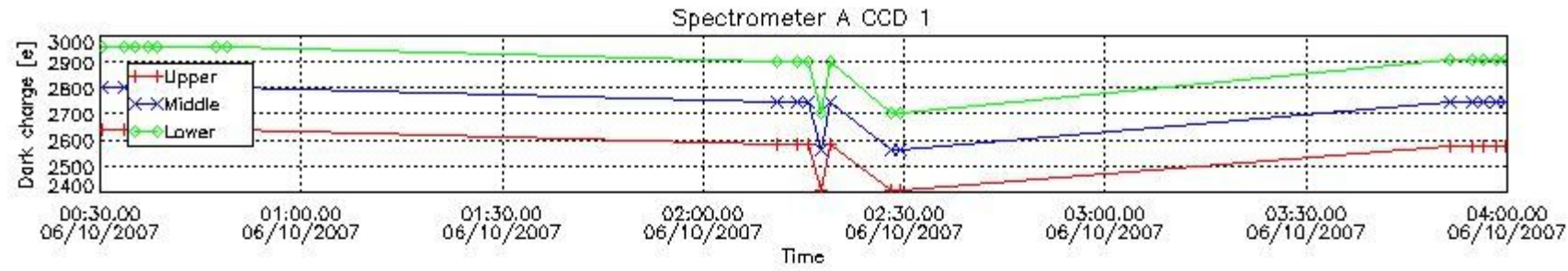
4. Overview of dark signal processing per product

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



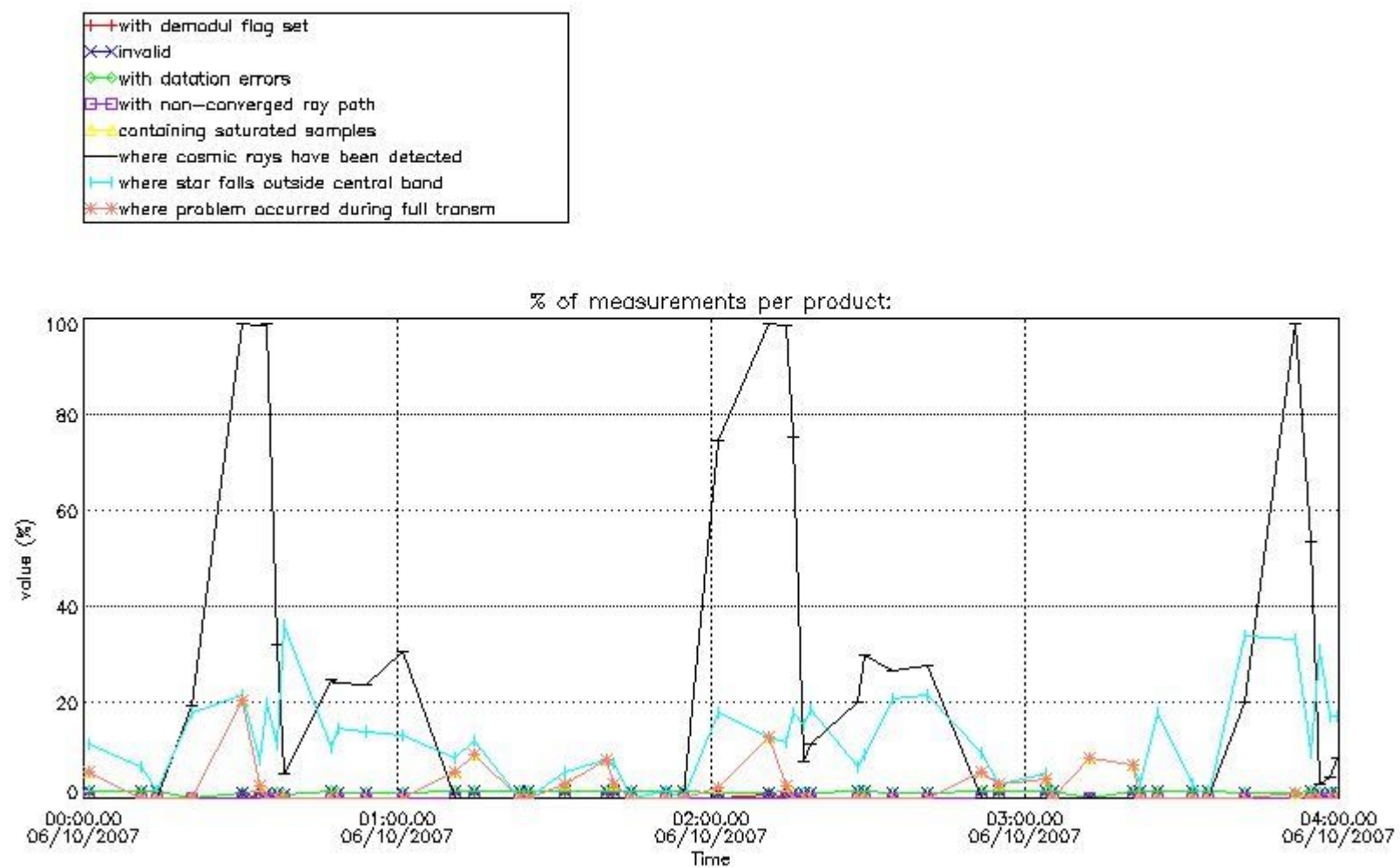
5. Demodulation flag and quality information monitoring

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.

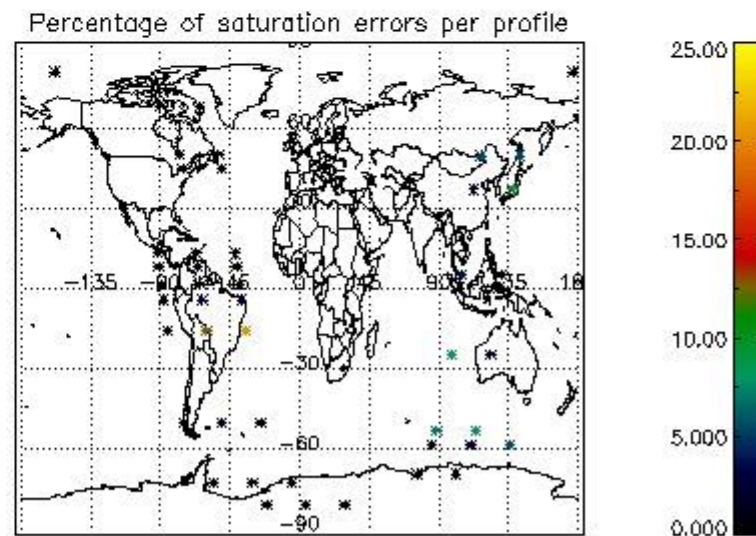
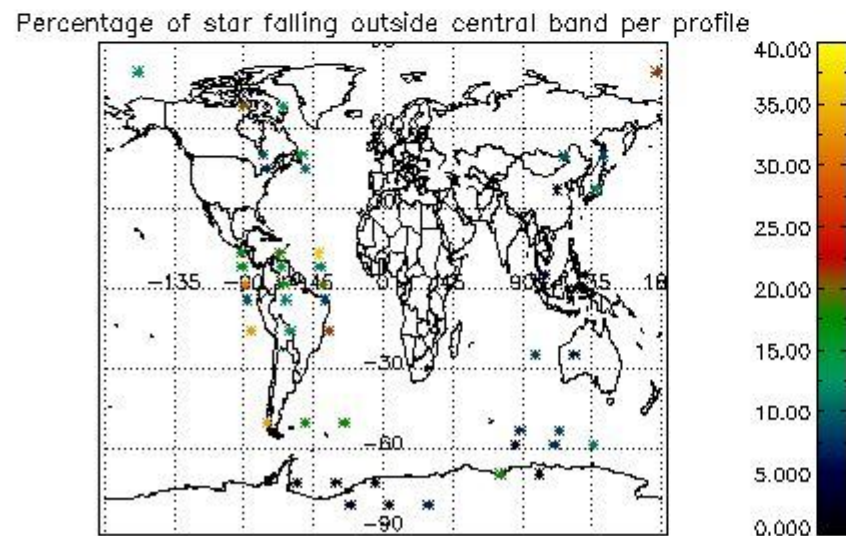
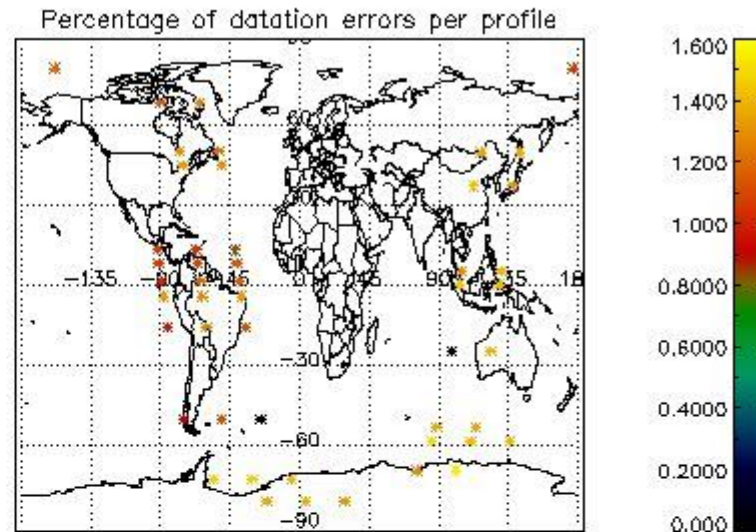
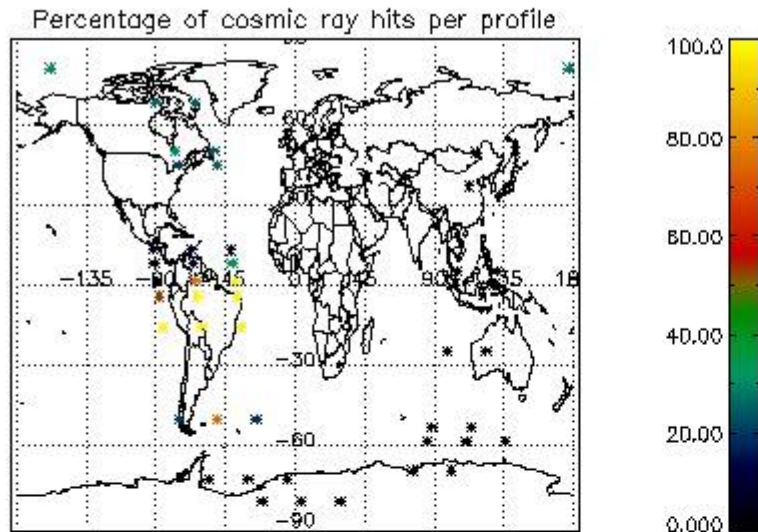
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



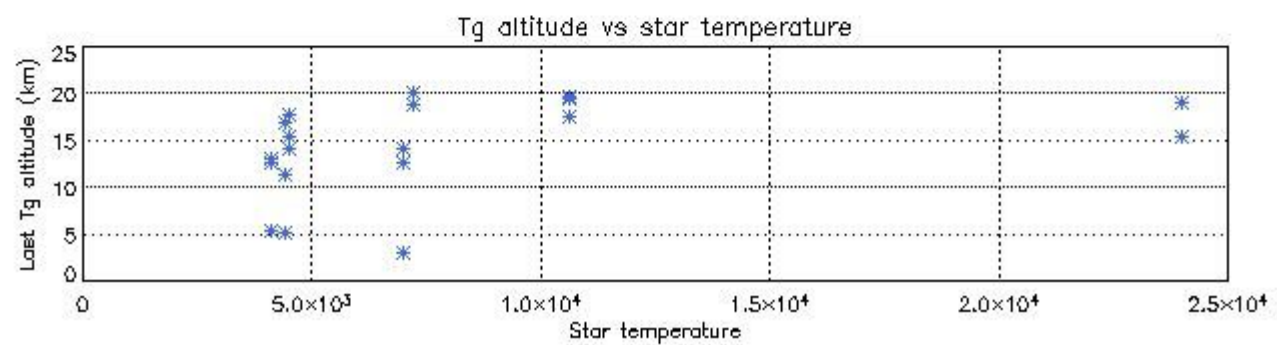
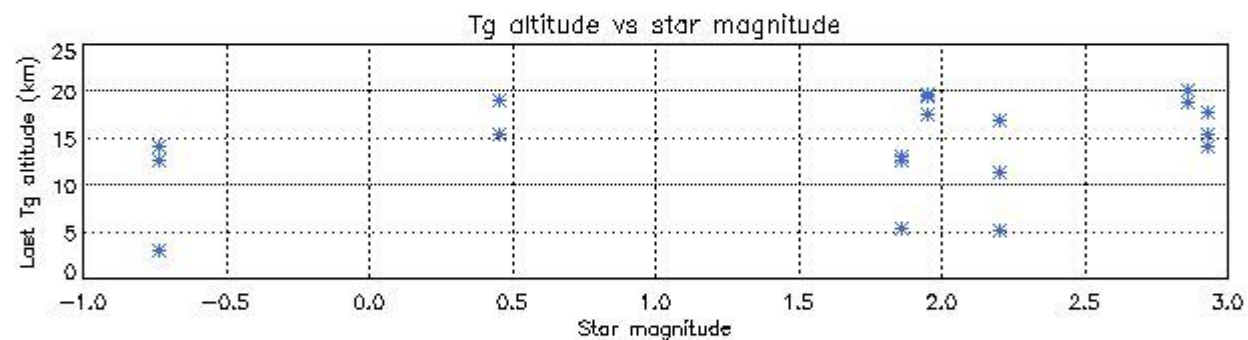
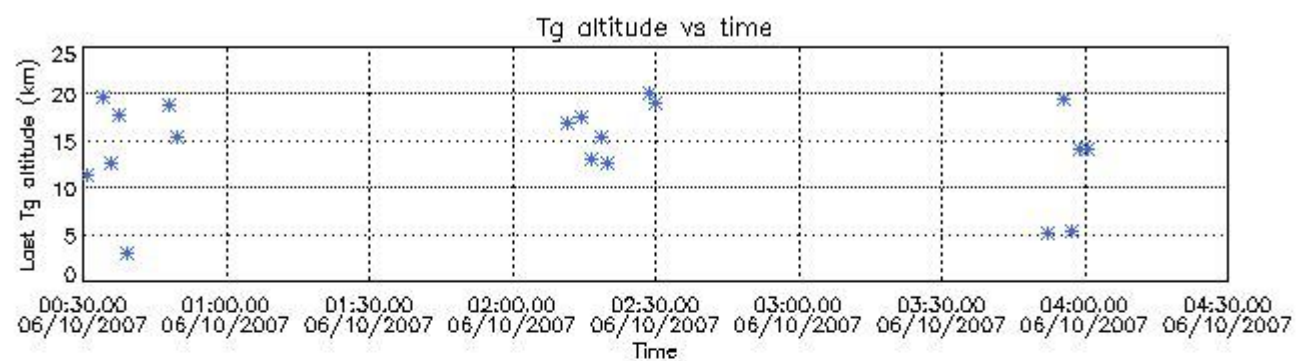
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.284	22.772	10.022
St. deviation:	5.1125	4.0390	4.5726
Maximum:	20.181	31.104	12.826
Minimum:	3.0096	15.329	4.7453
Number of data:	19.000	23.000	3.0000

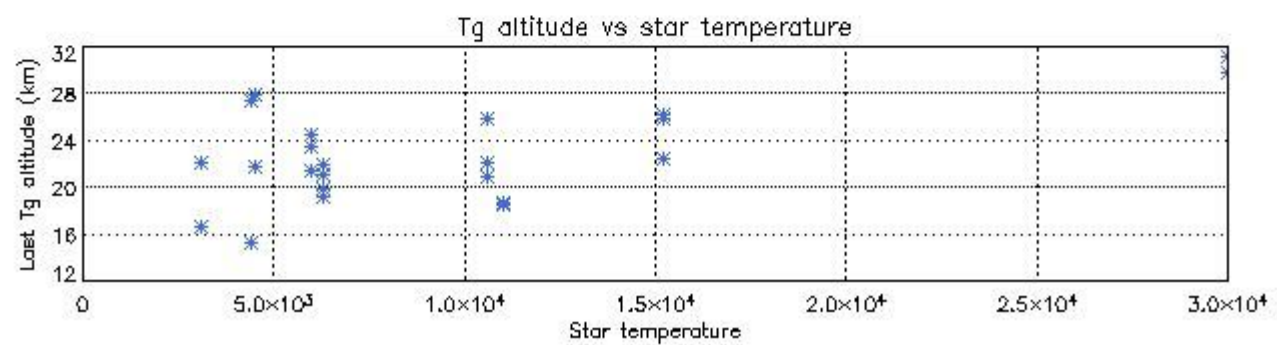
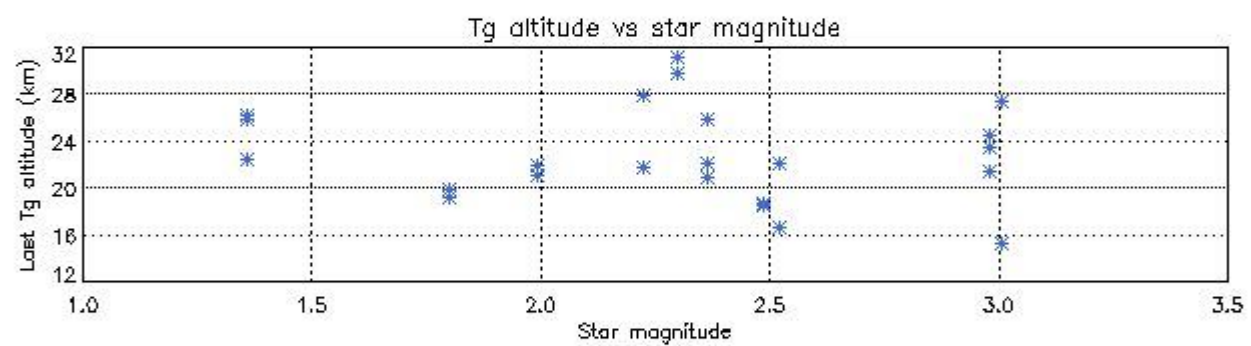
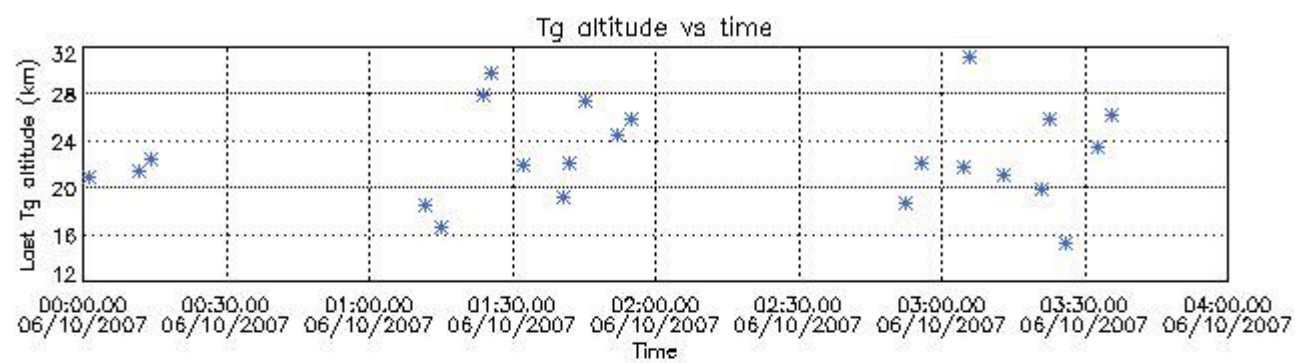
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



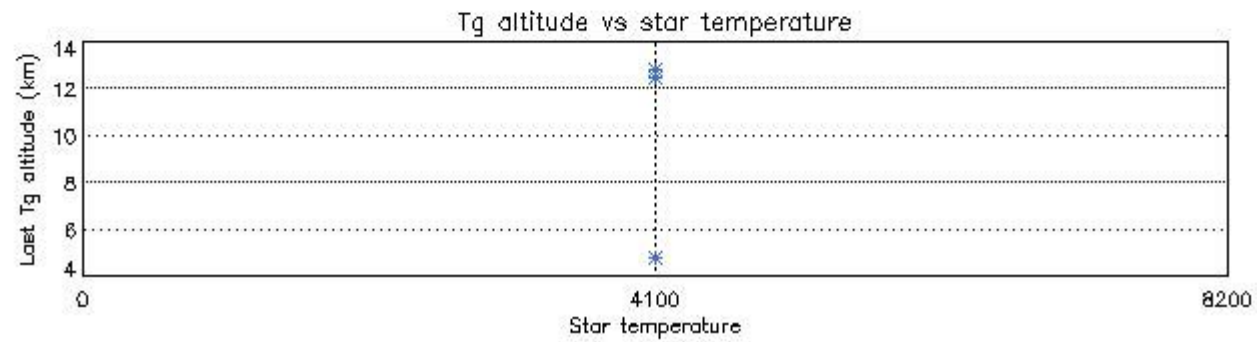
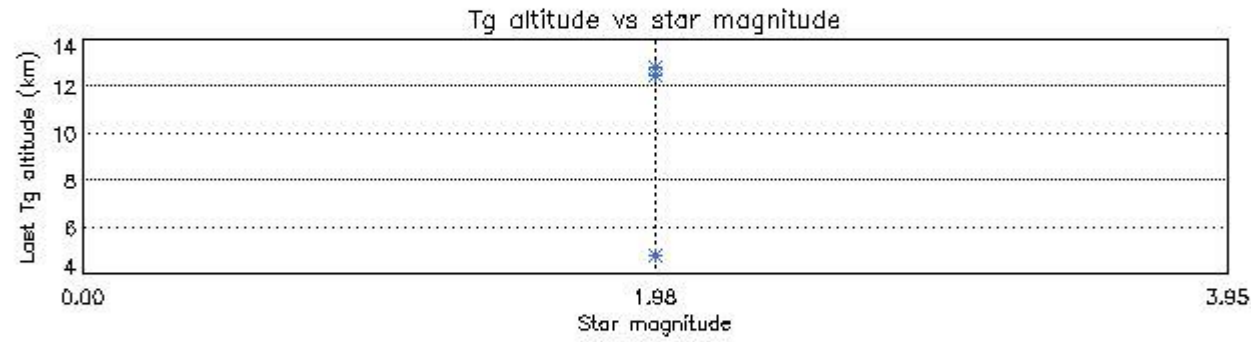
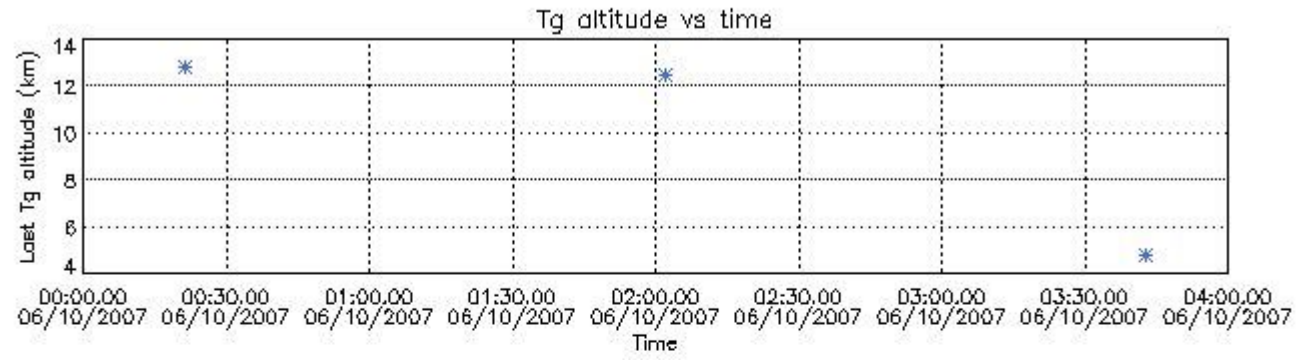
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

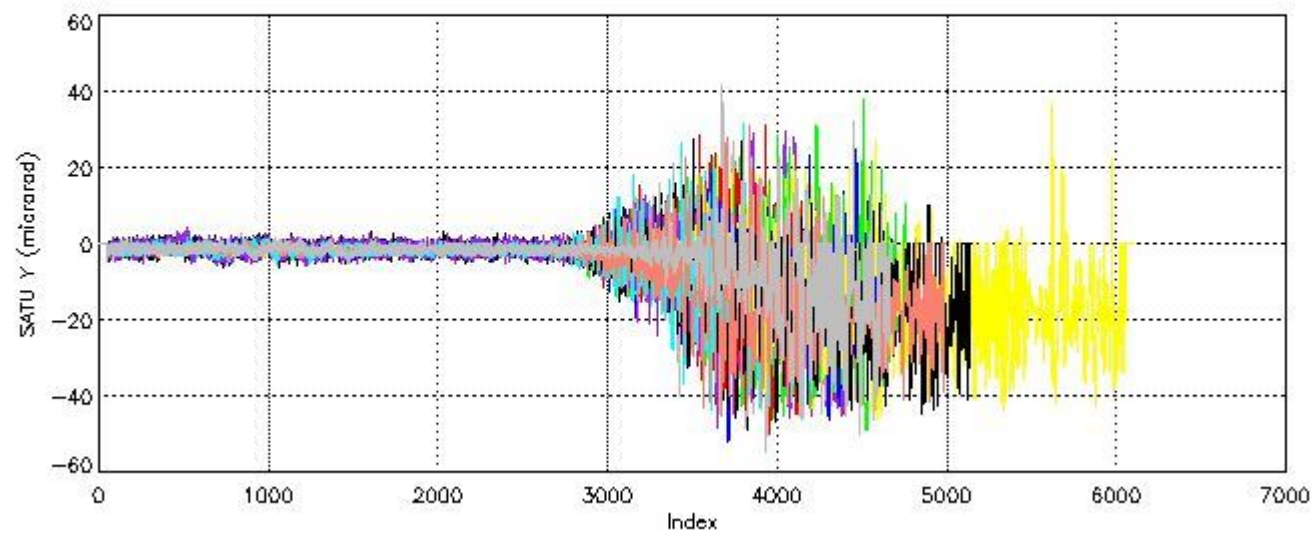
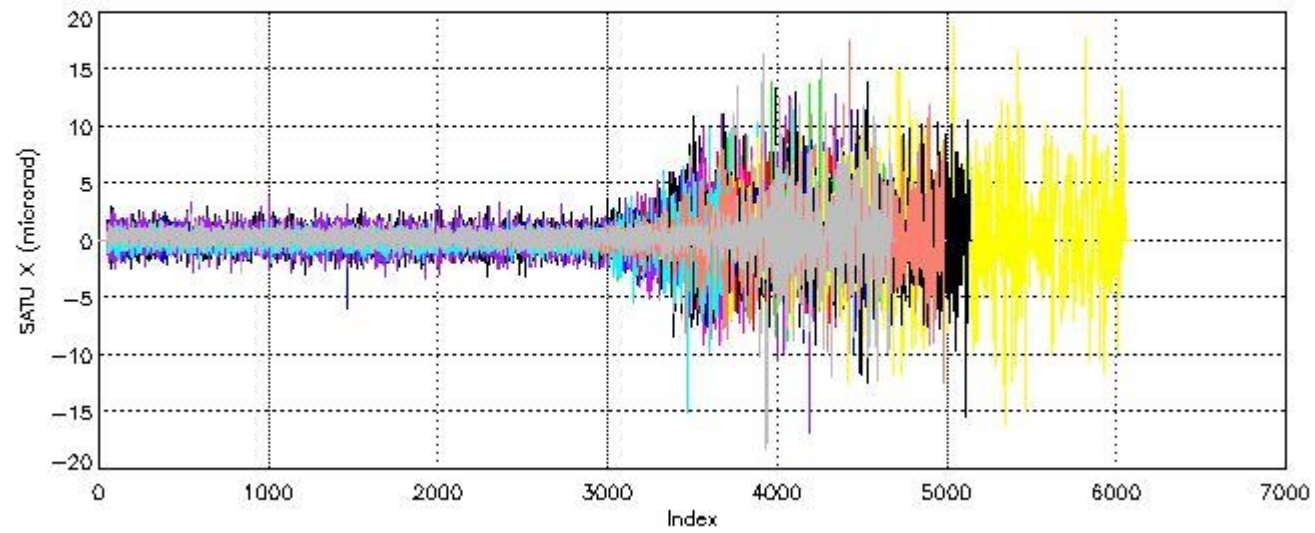


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15522	-1.3463	0.017962	-1.4248
St. deviation:	0.37391	0.93573	0.67301	1.3013
Maximum:	3.4000	4.0000	3.4000	3.4000
Minimum:	-2.8000	-6.3000	-3.6000	-7.8000

Number of data:	17700.	17700.	19550.	19550.
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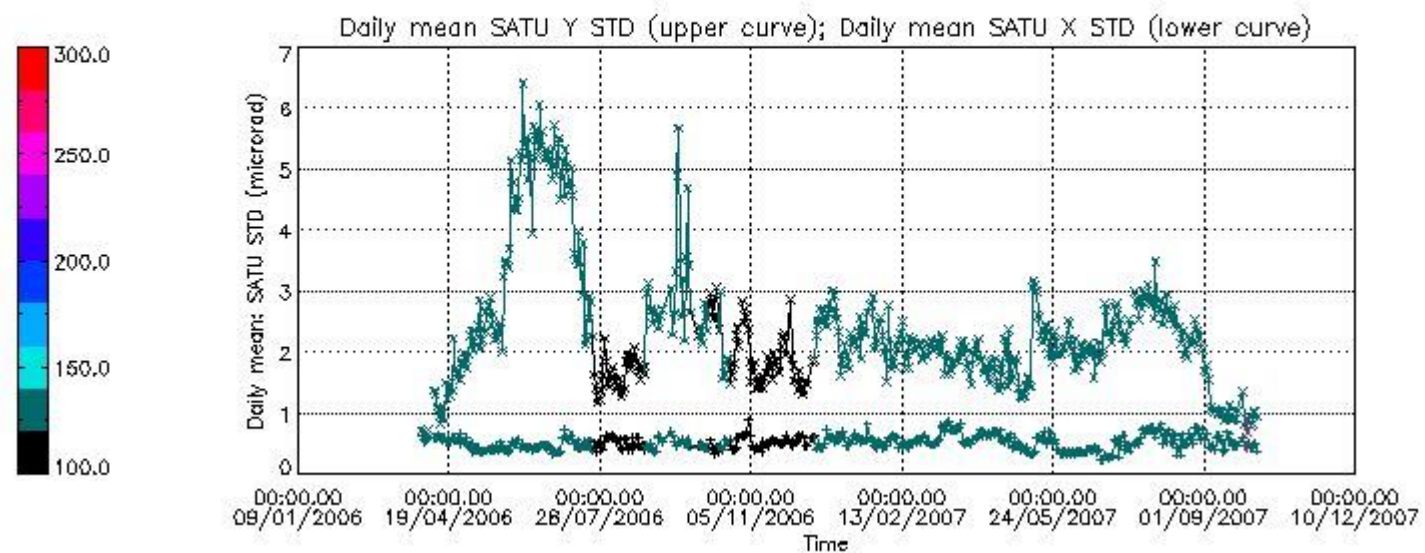
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

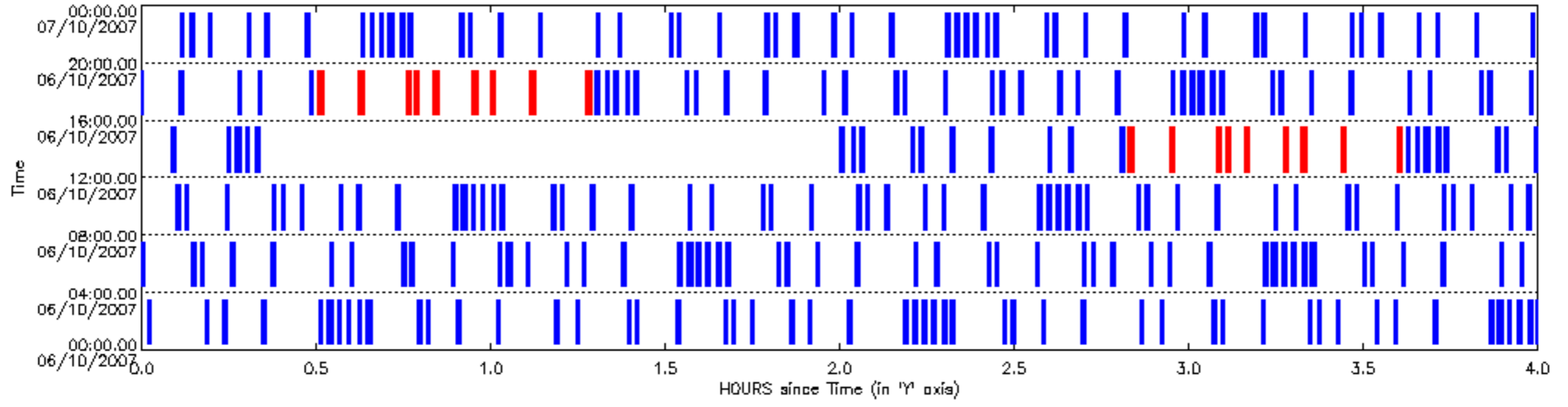
Lower curve: STD of SATU X axis

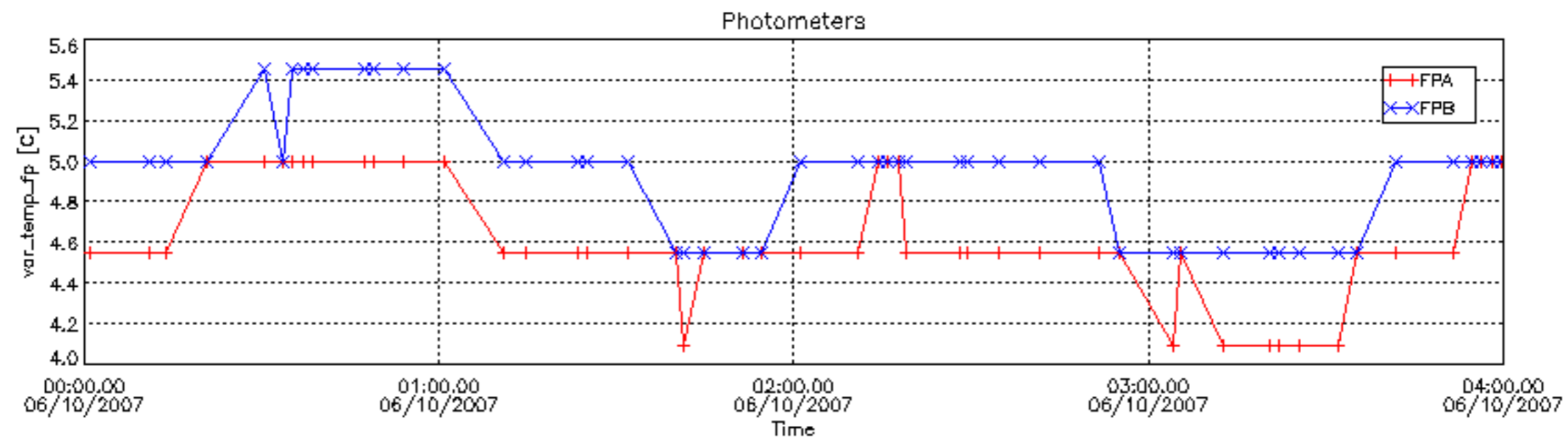
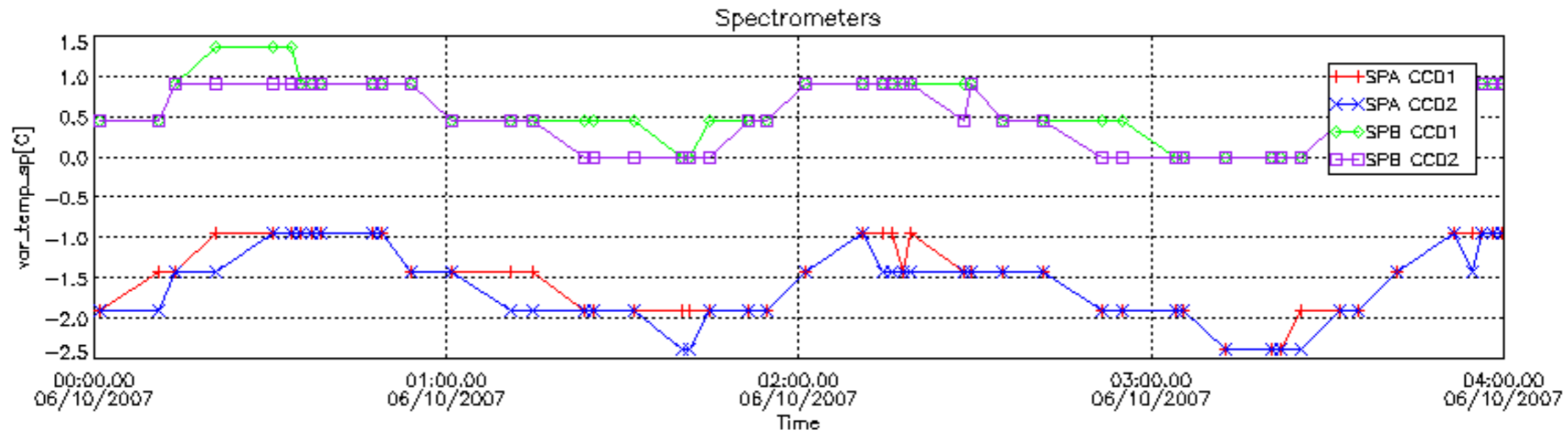


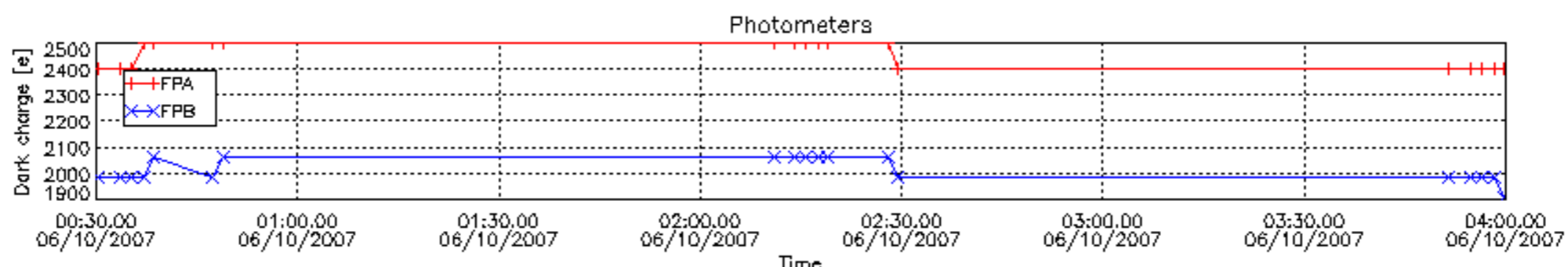
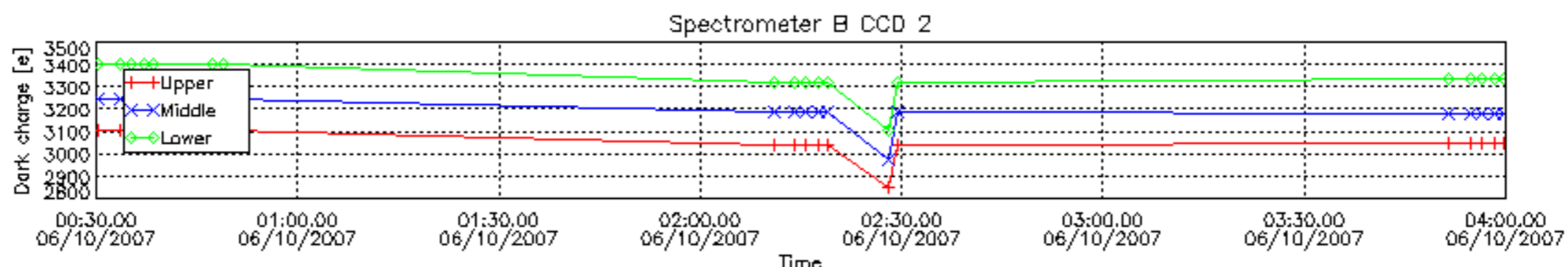
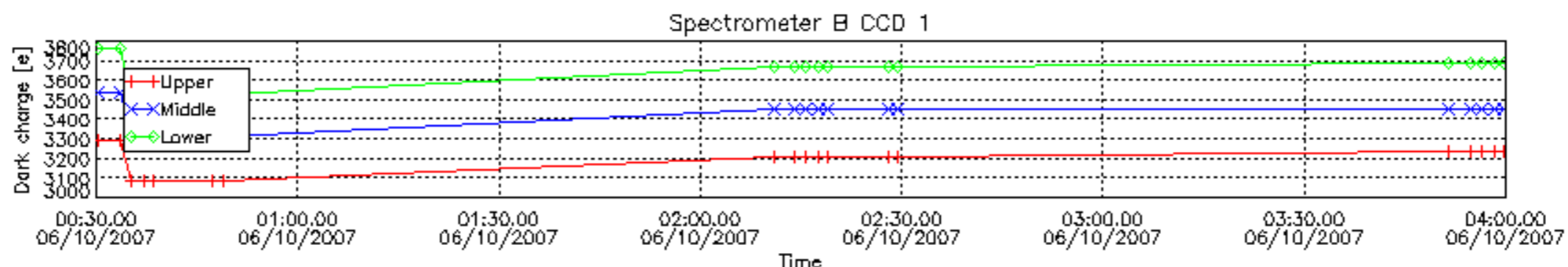
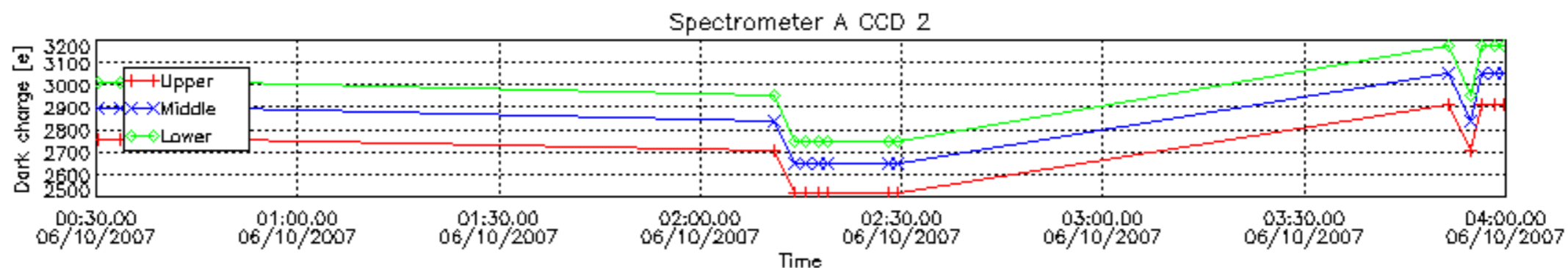
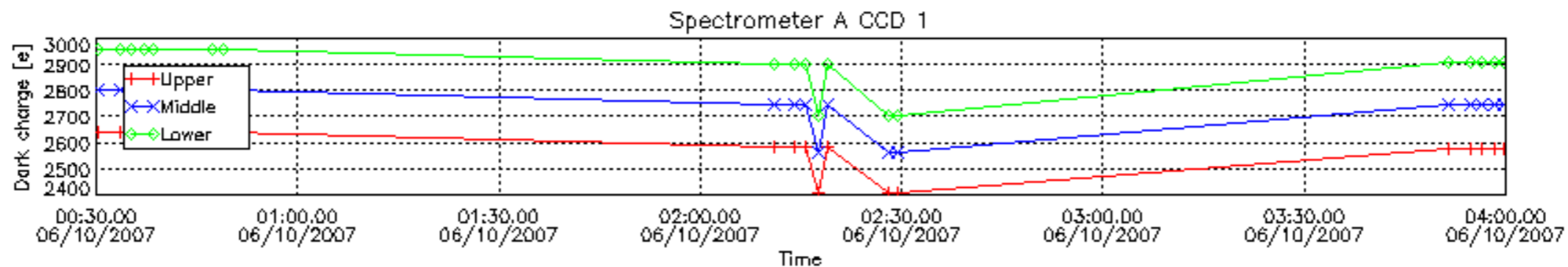
8. Auxiliary Data Files used for the production reported in section 2.4

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.

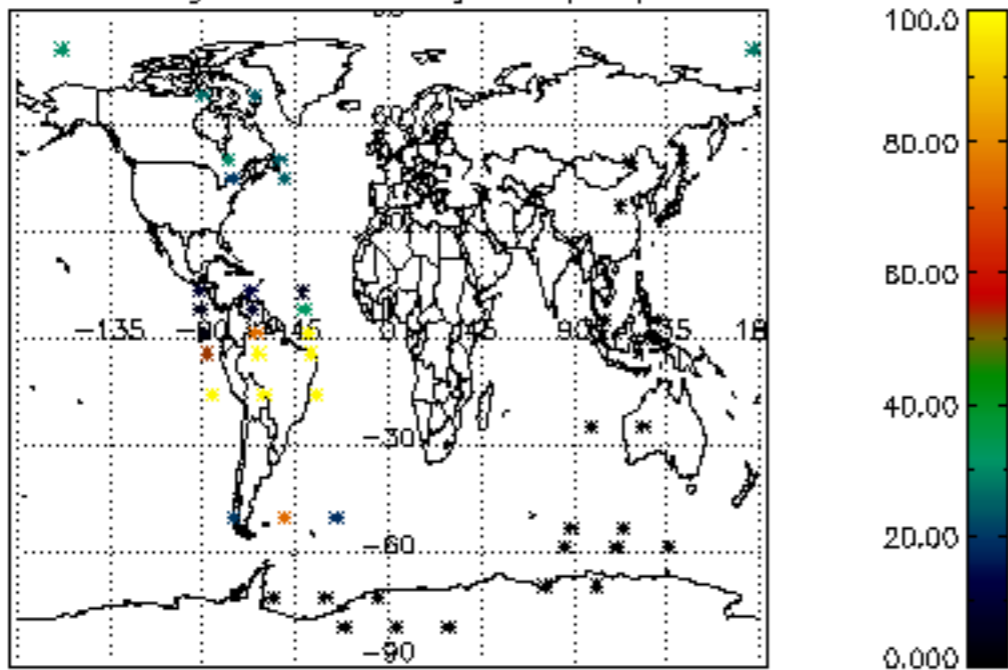
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	06-OCT-2007 00:00:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-OCT-2007 00:00:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-OCT-2007 00:00:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-OCT-2007 00:00:52
ECMWF_FILE	AUX_ECF_AXNECM20071005_060114_20071005_210000_20071006_090000	1	06-OCT-2007 00:00:52
ECMWF_FILE	AUX_ECF_AXNECM20071005_181112_20071006_030000_20071006_150000	39	06-OCT-2007 03:20:33
OPTIONAL_ECMWF_FILE	MISSING	1	06-OCT-2007 00:00:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071005_205305_000060572062_00157_29269_4296.N1	1	06-OCT-2007 00:00:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071005_223921_000057382062_00158_29270_4297.N1	5	06-OCT-2007 00:30:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071006_002018_000054192062_00159_29271_4298.N1	24	06-OCT-2007 02:01:14
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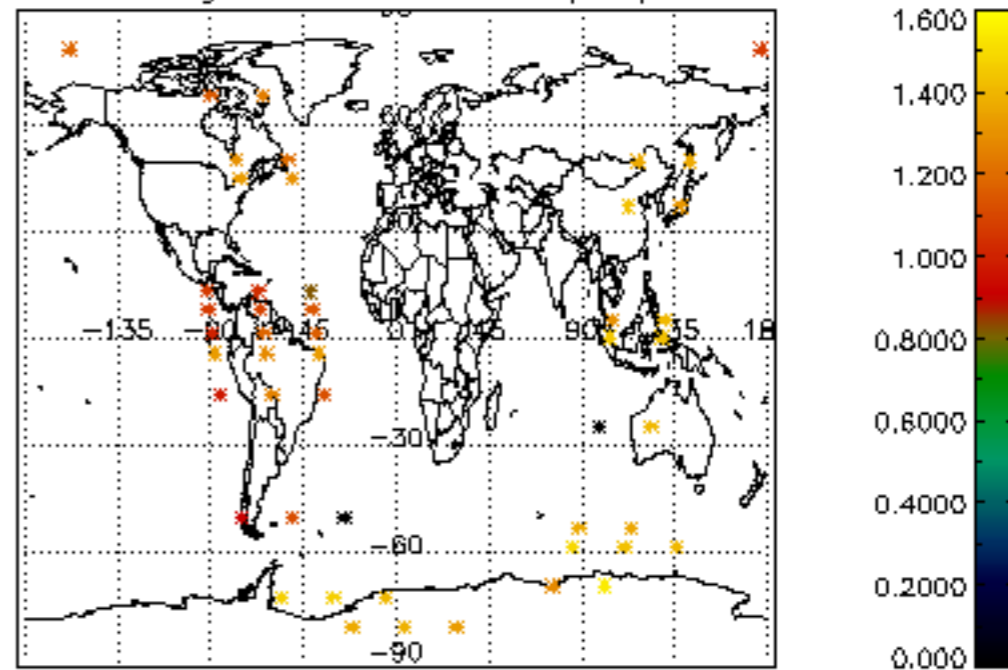




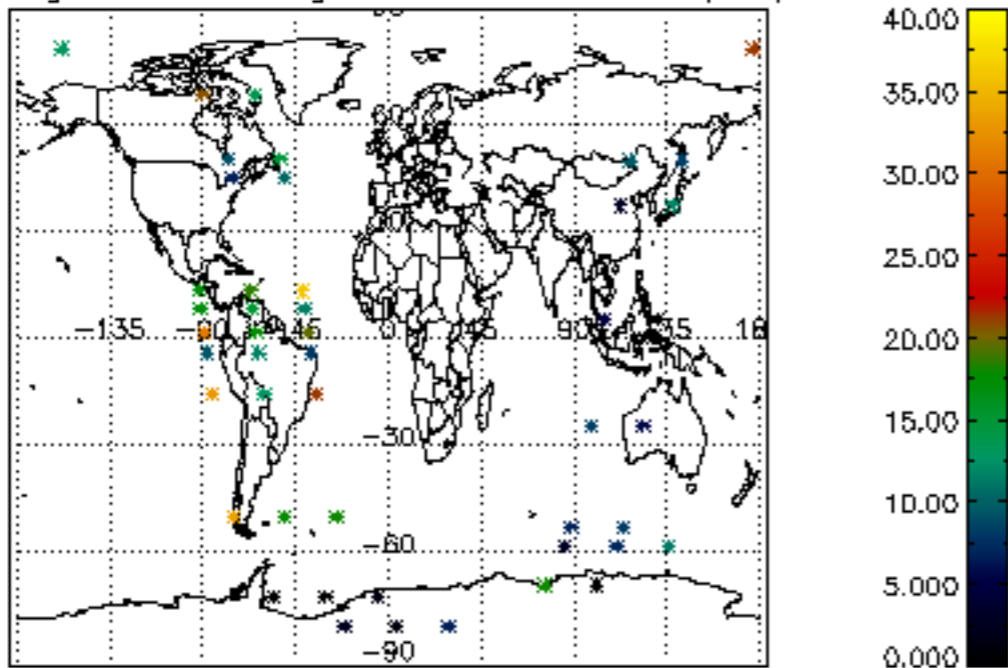
Percentage of cosmic ray hits per profile



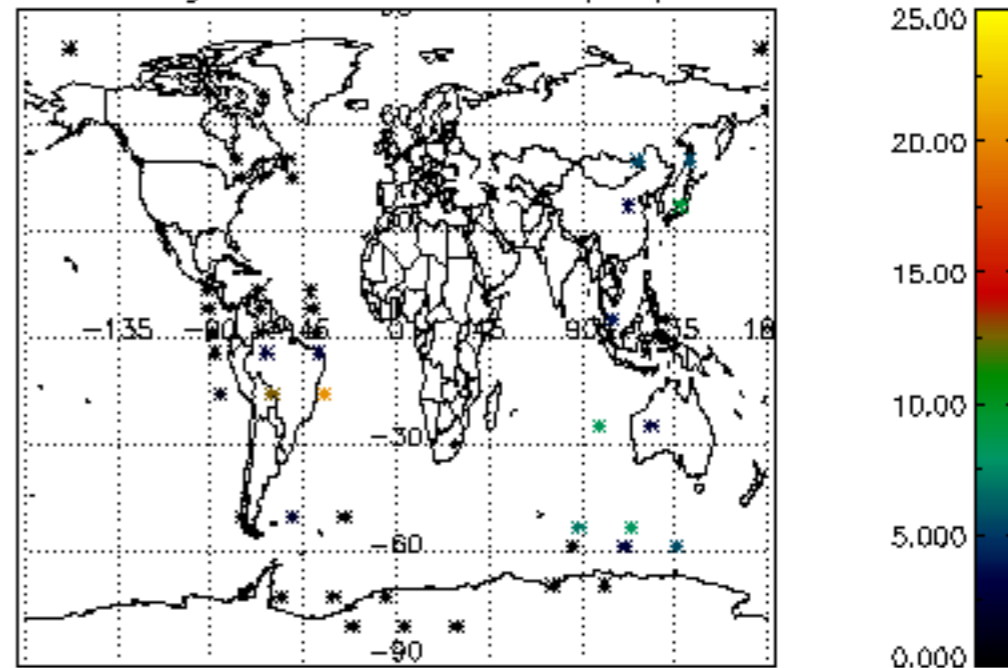
Percentage of datation errors per profile



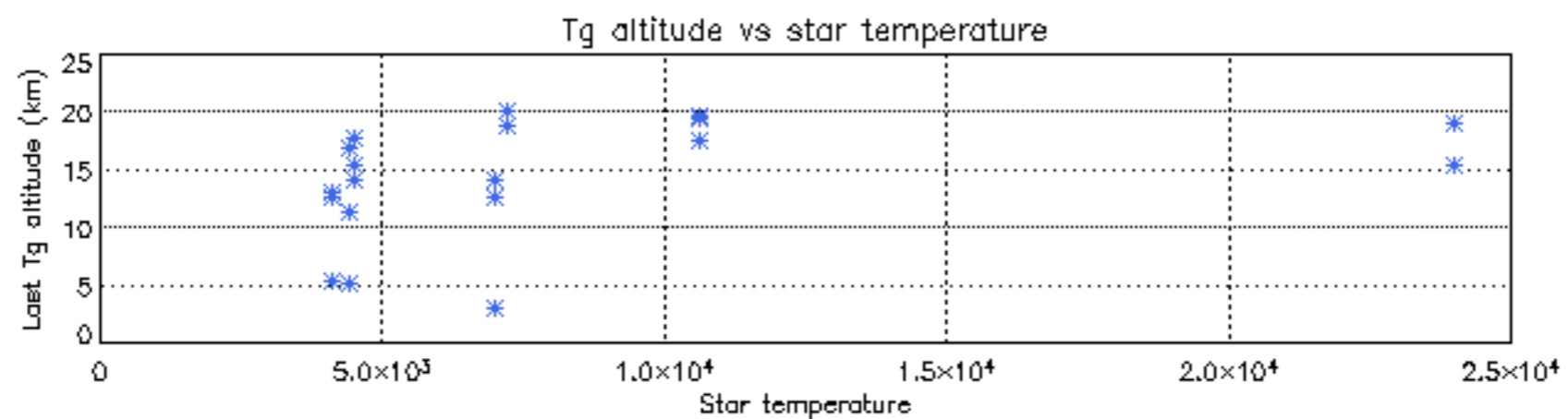
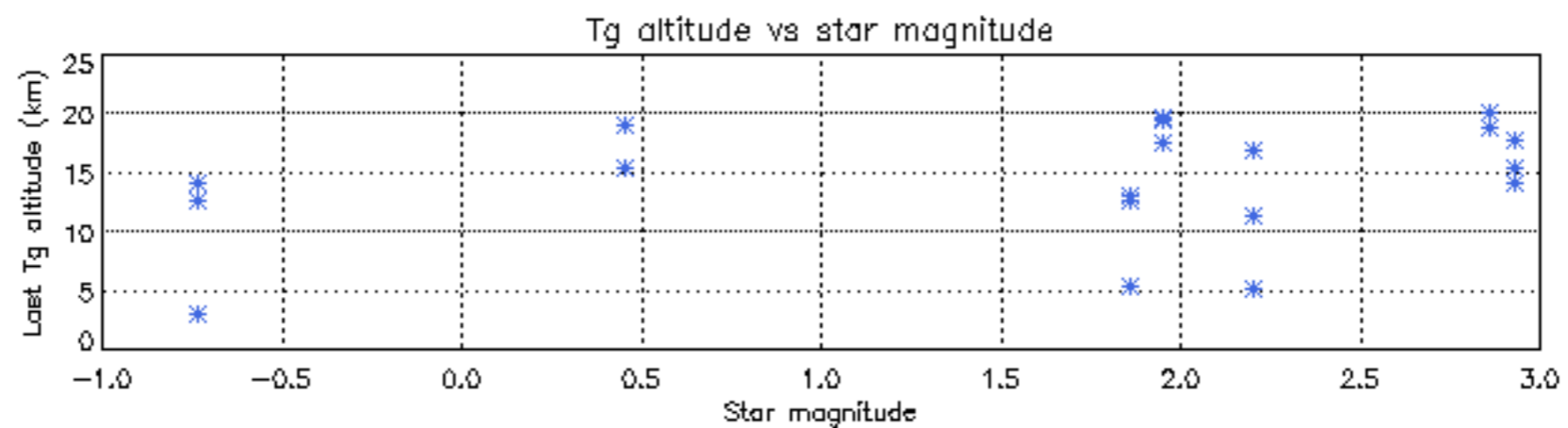
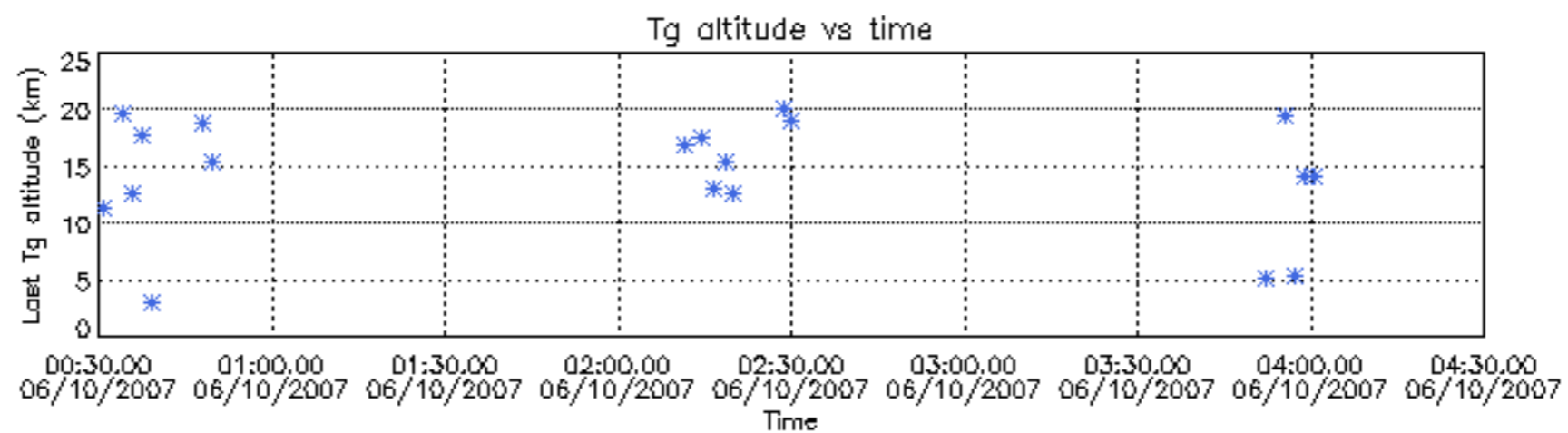
Percentage of star falling outside central band per profile



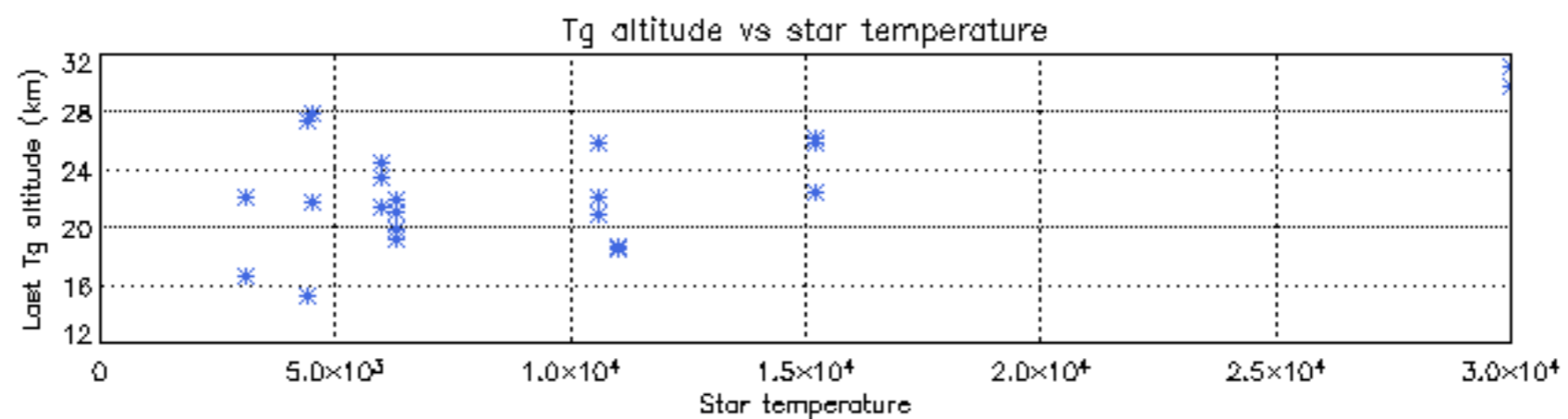
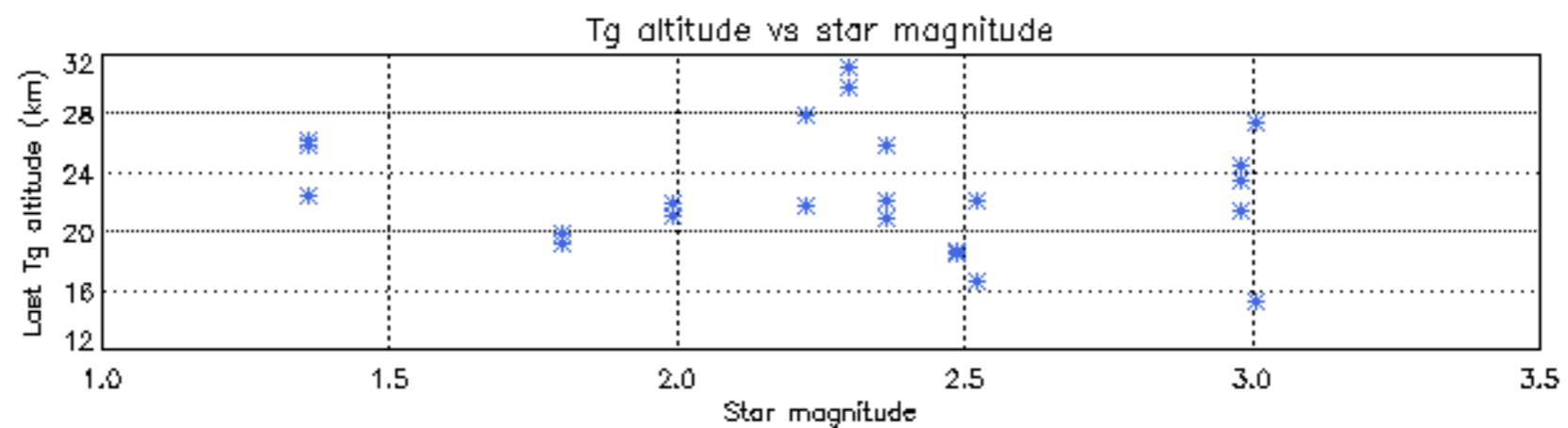
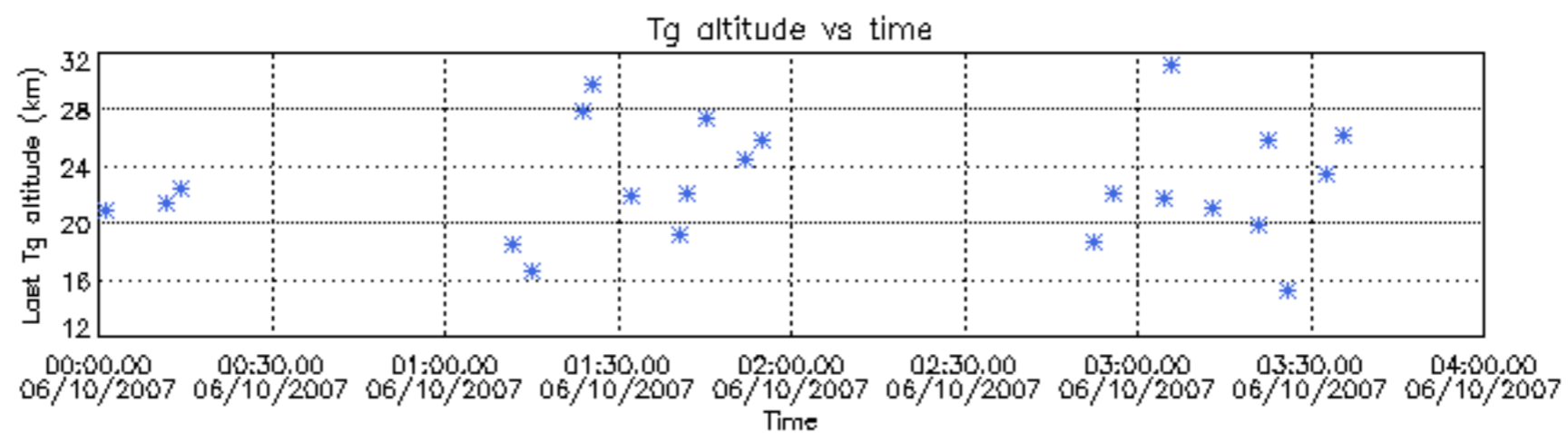
Percentage of saturation errors per profile



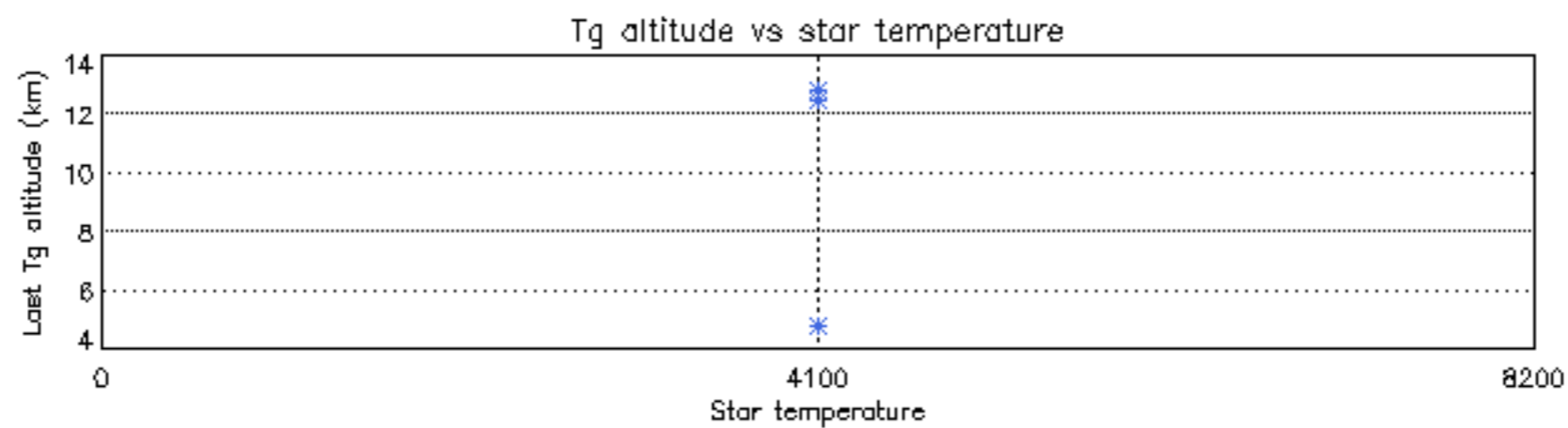
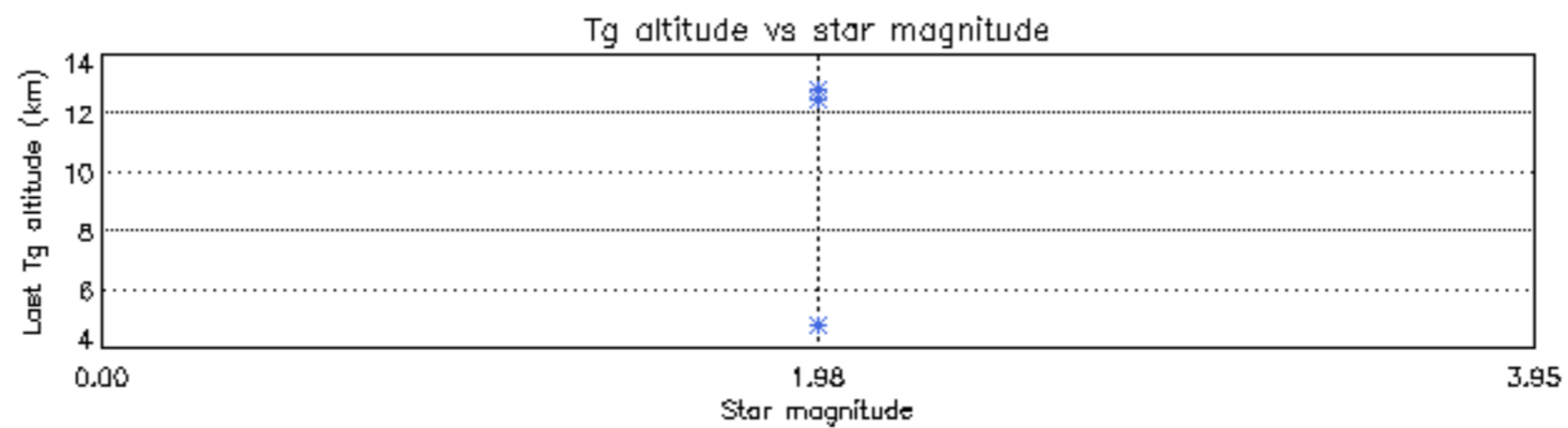
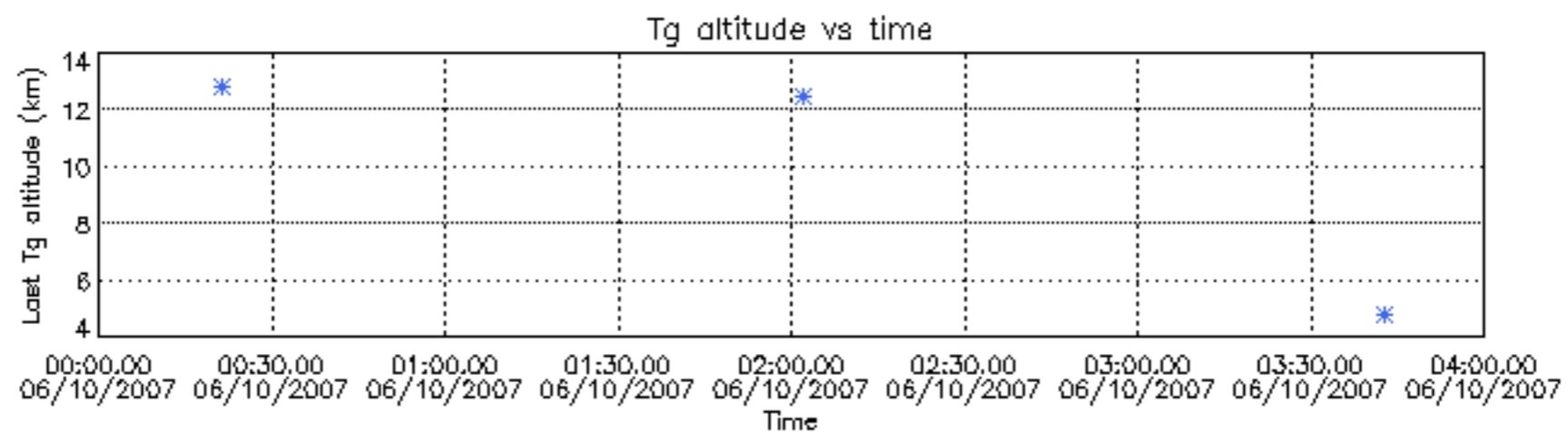
Tangent altitude at which the star is lost

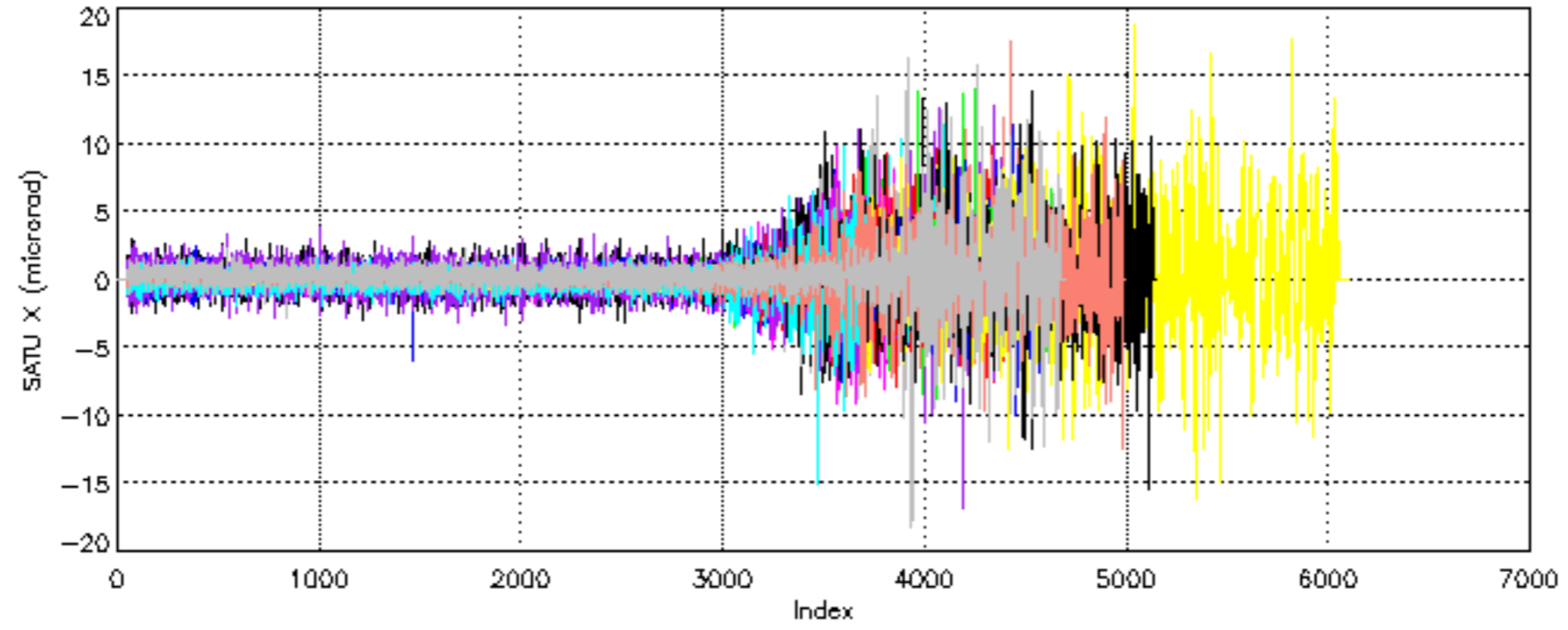


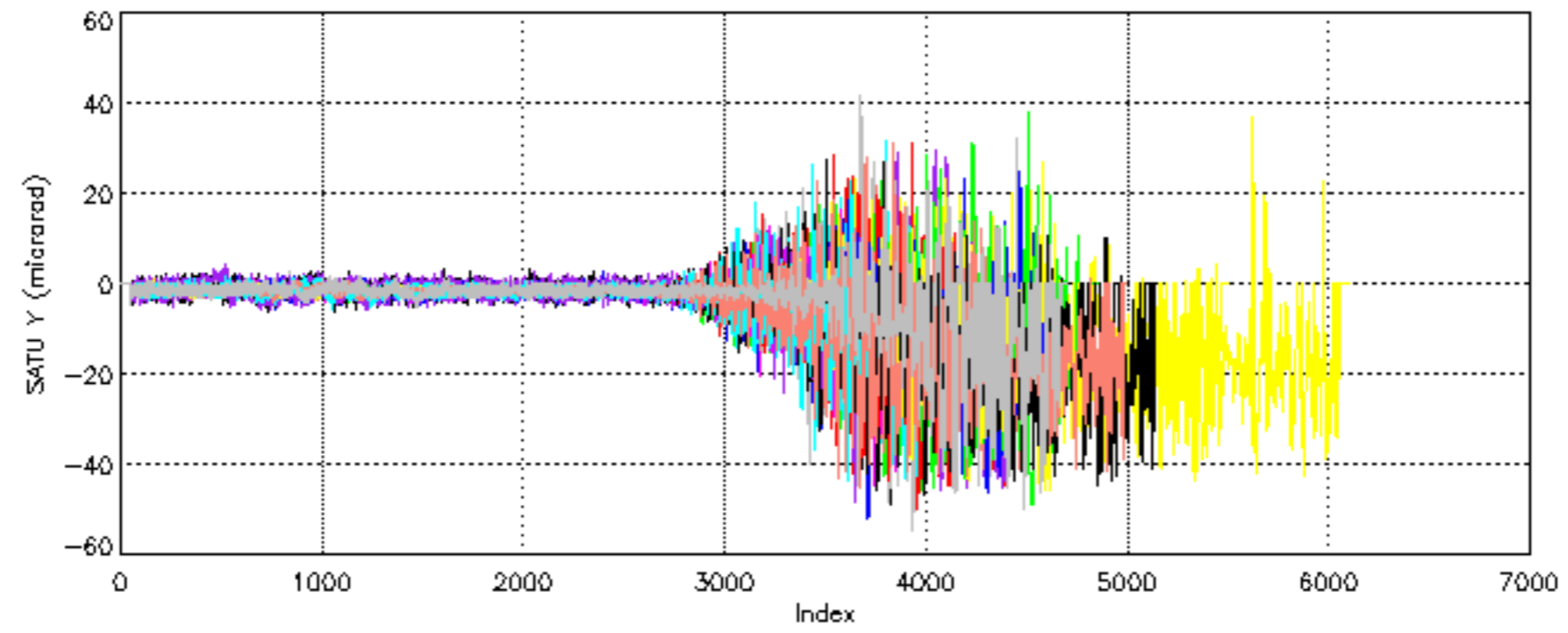
Tangent altitude at which the star is lost

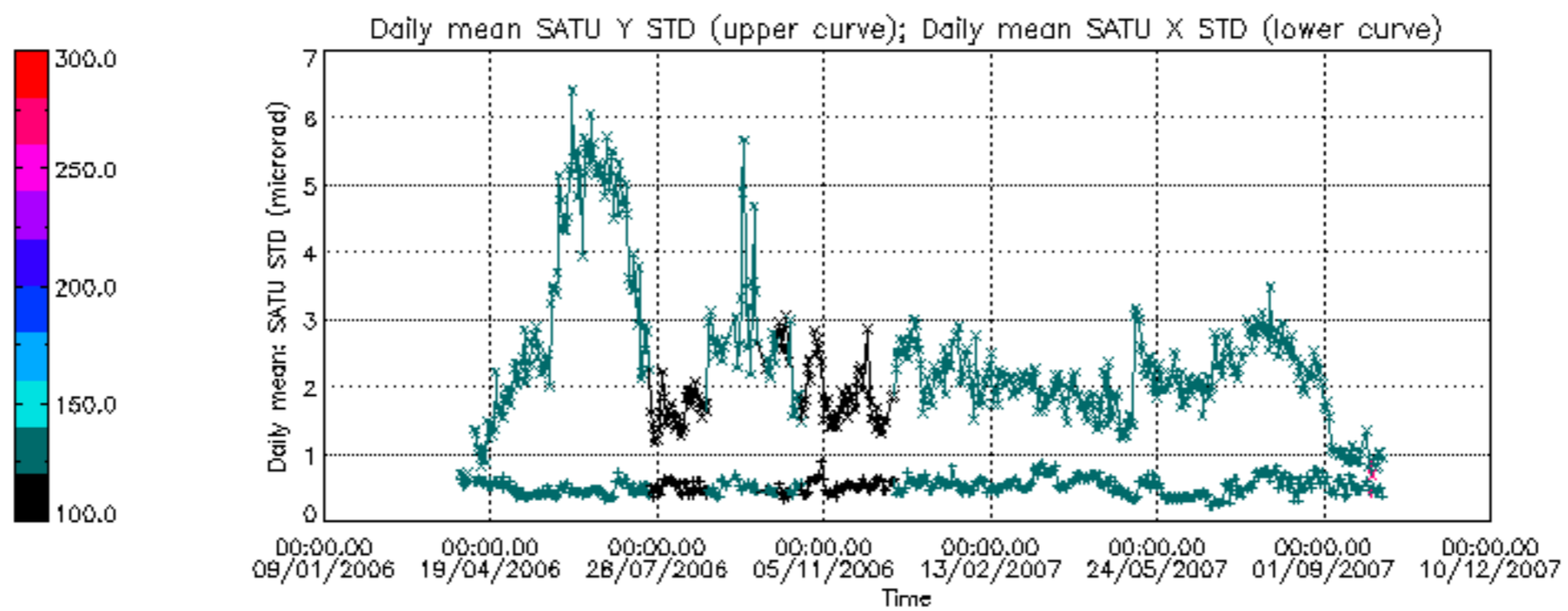


Tangent altitude at which the star is lost









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13; 2949.2; 02-OCT-2007 03:30:22; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29216
14; 3428.5; 02-OCT-2007 03:38:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29216
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8; 94.1; 02-OCT-2007 04:23:23; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29217
9; 178.4; 02-OCT-2007 04:24:47; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29217
10; 736.0; 02-OCT-2007 04:34:05; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29217
11; 823.7; 02-OCT-2007 04:35:32; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;29217
12; 1144.4; 02-OCT-2007 04:40:53; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29217
13; 1559.0; 02-OCT-2007 04:47:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29217
14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
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16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
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9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29218
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16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
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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
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11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 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
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
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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 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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 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
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 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
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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
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 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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 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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 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
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 18; 5169.7; 02-OCT-2007 22:33:58; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29227

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 9; 1560.4; 02-OCT-2007 23:14:24; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29228
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9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287
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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
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11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
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3; -1834.8; 07-OCT-2007 04:34:21; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29288
4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288
5; -838.5; 07-OCT-2007 04:50:57; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29288
6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
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11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289
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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
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 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
 4; 766.1; 07-OCT-2007 23:44:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29300
 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300
 6; 1165.9; 07-OCT-2007 23:50:57; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29300
 7; 1570.4; 07-OCT-2007 23:57:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29300
 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300
 10; 2914.3; 08-OCT-2007 00:20:05; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29300
 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
 12; 3427.4; 08-OCT-2007 00:28:38; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29300
 13; 3914.1; 08-OCT-2007 00:36:45; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29300
 14; 4005.7; 08-OCT-2007 00:38:17; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29300
 15; 4202.6; 08-OCT-2007 00:41:34; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29300
 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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 6; -258.9; 07-OCT-2007 06:41:13; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29289
 7; -160.3; 07-OCT-2007 06:42:51; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 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
 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290
 11; 234.8; 07-OCT-2007 06:49:27; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29290
 12; 762.8; 07-OCT-2007 06:58:15; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29290
 13; 850.2; 07-OCT-2007 06:59:42; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;29290
 14; 1163.5; 07-OCT-2007 07:04:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29290
 15; 1569.2; 07-OCT-2007 07:11:41; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29290

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 3; 2917.5; 07-OCT-2007 07:34:09; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29290
 4; 3002.4; 07-OCT-2007 07:35:34; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29290
 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
 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290
 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
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
 13; 5972.4; 07-OCT-2007 08:25:04; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29290
 14; 6059.3; 07-OCT-2007 08:26:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
 15; 6187.5; 07-OCT-2007 08:28:39; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29290
 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
 18; 6886.5; 07-OCT-2007 08:40:18; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29290
 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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4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
6; 3913.3; 07-OCT-2007 09:31:21; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29291
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
9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 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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3; 2390.5; 07-OCT-2007 10:46:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29292
4; 2916.9; 07-OCT-2007 10:55:20; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29292
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7; 3913.6; 07-OCT-2007 11:11:57; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29292
8; 4005.0; 07-OCT-2007 11:13:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29292
9; 4201.6; 07-OCT-2007 11:16:45; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;29292
10; 4605.2; 07-OCT-2007 11:23:29; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29292
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16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
17; 6189.0; 07-OCT-2007 11:49:53; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29292
18; 6273.0; 07-OCT-2007 11:51:17; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29292
19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
20; 6887.2; 07-OCT-2007 12:01:31; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29292
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3; 2390.6; 07-OCT-2007 12:27:10; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29293
4; 2916.6; 07-OCT-2007 12:35:56; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29293
5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
6; 3427.5; 07-OCT-2007 12:44:27; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29293
7; 3913.6; 07-OCT-2007 12:52:33; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29293
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9; 4201.8; 07-OCT-2007 12:57:21; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29293
10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
12; 5199.8; 07-OCT-2007 13:13:59; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29293
13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
14; 5878.9; 07-OCT-2007 13:25:18; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29293
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2; 1595.0; 19-OCT-2007 20:59:54; Dark ; 39.0; 52; 16Bet Cet ; 2.04; 4500;occ; 78; 0;29470
3; 2168.3; 19-OCT-2007 21:09:27; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29470
4; 2403.8; 19-OCT-2007 21:13:23; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29470
5; 2540.0; 19-OCT-2007 21:15:39; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;29470
6; 2878.1; 19-OCT-2007 21:21:17; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29470
7; 2957.7; 19-OCT-2007 21:22:37; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29470
8; 3425.4; 19-OCT-2007 21:30:24; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29470
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11; 4221.0; 19-OCT-2007 21:43:40; Bright; 43.5; 174; 52Psi UMa ; 3.00; 4400;occ; 87; 0;29470
12; 4689.7; 19-OCT-2007 21:51:29; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;29470
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3; 179.4; 19-OCT-2007 22:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29471
4; 380.5; 19-OCT-2007 22:20:15; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29471
5; 1070.3; 19-OCT-2007 22:31:45; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;29471
6; 1595.0; 19-OCT-2007 22:40:30; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;29471
7; 2168.4; 19-OCT-2007 22:50:03; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29471
8; 2403.8; 19-OCT-2007 22:53:59; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;29471

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6; -730.4; 19-OCT-2007 06:56:21; Dark ; 38.0; 48; 30Alp Hya ; 1.98; 4100;occ; 76; 0;29461
7; -162.6; 19-OCT-2007 07:05:49; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29461
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9; 171.2; 19-OCT-2007 07:11:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29462
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6; 2959.2; 19-OCT-2007 07:57:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29462
7; 3425.6; 19-OCT-2007 08:05:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29462
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16; 6208.0; 19-OCT-2007 08:51:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29462
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9; 4220.5; 19-OCT-2007 09:59:28; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29463
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15; 6208.9; 19-OCT-2007 10:32:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29463
16; 6410.8; 19-OCT-2007 10:35:58; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;29463
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3; 2403.7; 19-OCT-2007 11:09:47; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29464
4; 2541.5; 19-OCT-2007 11:12:05; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;29464
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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 11; 4688.3; 19-OCT-2007 11:47:51; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;29464
 12; 4847.0; 19-OCT-2007 11:50:30; Bright; 41.5; 22; 32Alp Leo ; 1.36; 15200;occ; 83; 0;29464
 13; 5875.3; 19-OCT-2007 12:07:39; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29464
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 15; 6209.8; 19-OCT-2007 12:13:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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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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 7; 3425.6; 19-OCT-2007 16:28:36; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29467
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 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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3; 2405.9; 22-OCT-2007 14:36:46; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29509
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6; 2951.6; 22-OCT-2007 14:45:51; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29509
7; 3425.2; 22-OCT-2007 14:53:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29509
8; 3626.3; 22-OCT-2007 14:57:06; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29509
9; 3919.9; 22-OCT-2007 15:02:00; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29509
10; 4014.5; 22-OCT-2007 15:03:34; Bright; 44.0; 82; 48Bet UMA ; 2.37; 10600;occ; 88; 0;29509
11; 4224.1; 22-OCT-2007 15:07:04; Bright; 54.0; 174; 52Psi UMA ; 3.00; 4400;occ; 108; 0;29509
12; 4701.0; 22-OCT-2007 15:15:01; Bright; 31.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 62; 0;29509
13; 5815.1; 22-OCT-2007 15:33:35; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;29509
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16; 6083.5; 22-OCT-2007 15:38:03; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29509
17; 6202.0; 22-OCT-2007 15:40:02; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;29509
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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
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 11; 3626.9; 22-OCT-2007 19:58:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 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
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 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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 7; 830.2; 23-OCT-2007 00:14:06; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29515
 8; 915.3; 23-OCT-2007 00:15:31; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29515
 9; 1089.7; 23-OCT-2007 00:18:25; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29515
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 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
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 19; 4014.2; 23-OCT-2007 01:07:10; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29515
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 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
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 9; 1090.1; 23-OCT-2007 01:59:01; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29516
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 6; 2948.1; 24-OCT-2007 10:21:22; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29535
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 9; 3918.9; 24-OCT-2007 10:37:33; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29535
 10; 4014.0; 24-OCT-2007 10:39:08; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;29535
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 16; 6098.7; 24-OCT-2007 11:13:53; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29535
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 19; 6956.1; 24-OCT-2007 11:28:10; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29535

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 13; 5823.3; 24-OCT-2007 14:30:29; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;29537
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12; 1109.0; 26-OCT-2007 07:06:53; Dark ; 30.0; 157; The1Eri ; 2.91; 9300;occ; 60; 0;29562
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4; 2522.2; 26-OCT-2007 07:30:26; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29562
5; 2869.4; 26-OCT-2007 07:36:13; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29562
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8; 3637.1; 26-OCT-2007 07:49:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;29562
9; 3918.1; 26-OCT-2007 07:53:42; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29562
10; 4013.6; 26-OCT-2007 07:55:18; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29562
11; 4227.0; 26-OCT-2007 07:58:51; Bright; 36.0; 174; 52Psi UMA ; 3.00; 4400;occ; 72; 0;29562
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5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
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 13; 5832.4; 26-OCT-2007 13:27:24; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29565
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