

GOMOS Daily Report 18-SEP-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	20SEP2007 06:14:55
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

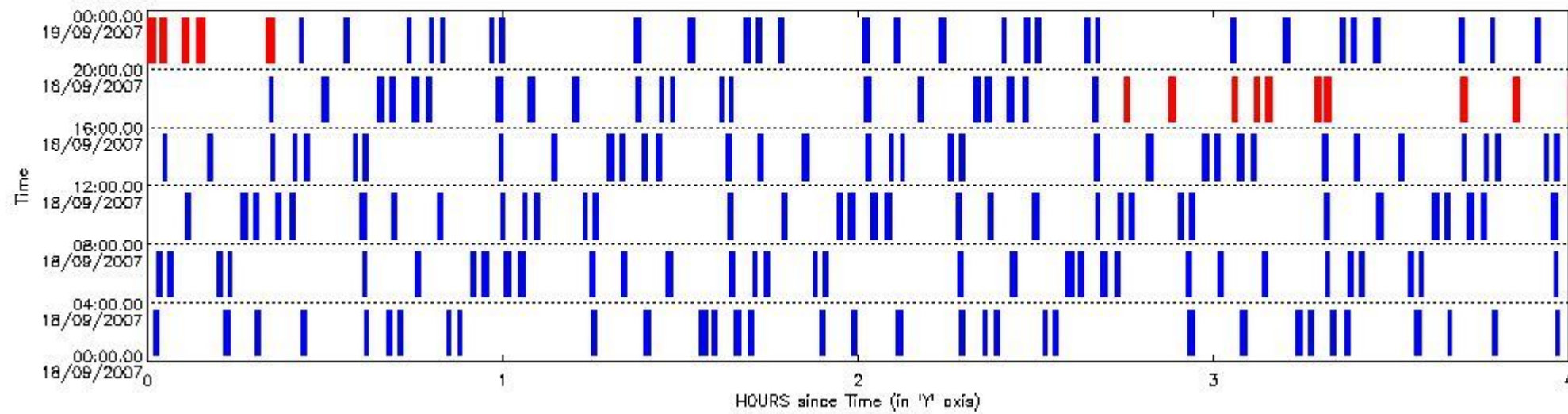
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



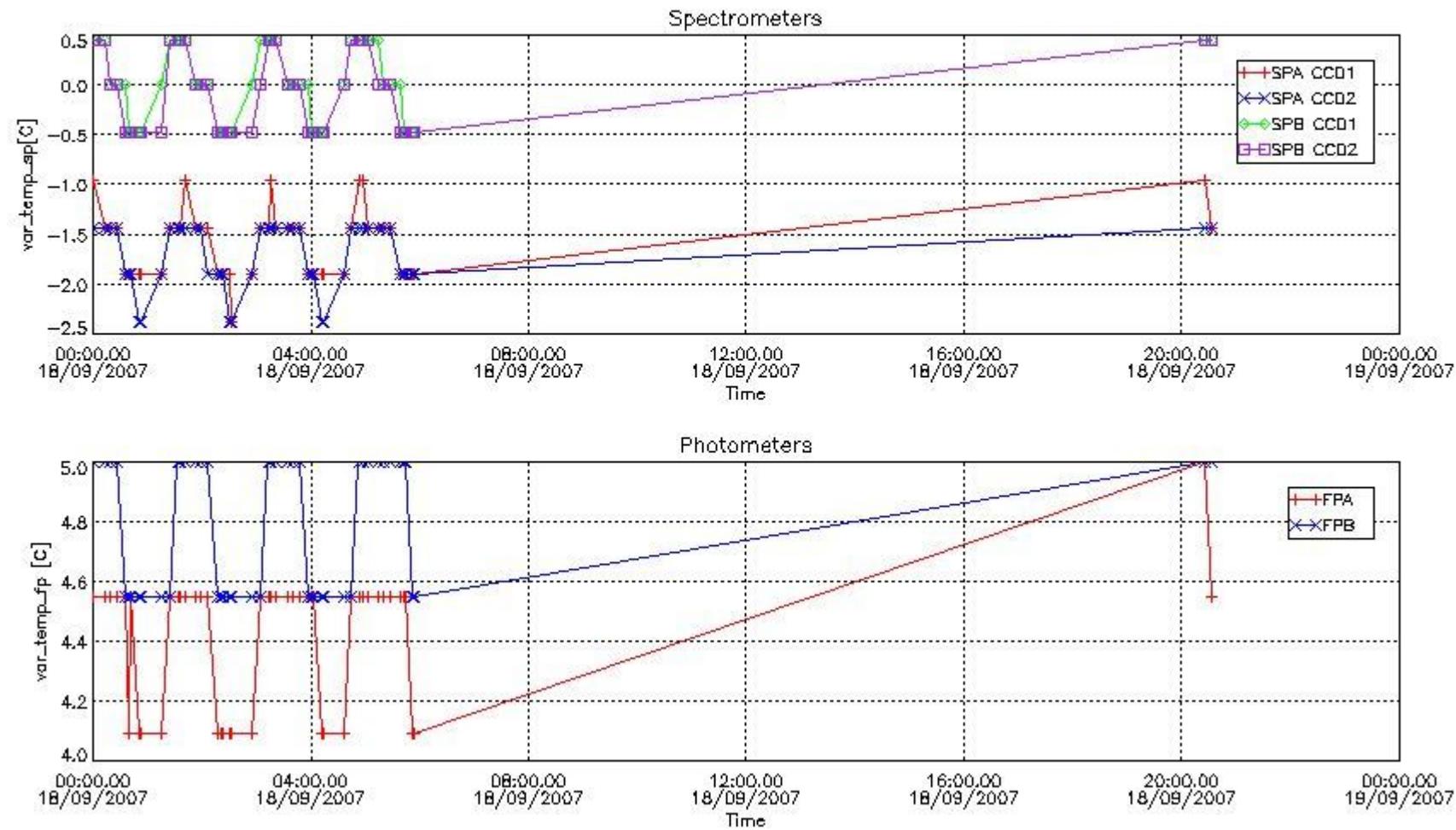
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
18-SEP-2007 18:44:49	AlpPhe	84	29025
18-SEP-2007 18:52:20	16BetCet	52	29025
18-SEP-2007 19:03:02	54AlpPeg	90	29025
18-SEP-2007 19:06:52	53BetPeg	93	29025
18-SEP-2007 19:08:42	21AlpAnd	58	29025
18-SEP-2007 19:17:00	11BetCas	74	29025
18-SEP-2007 19:18:44	27GamCas	76	29025
18-SEP-2007 19:41:34	66AlpGem	24	29025
18-SEP-2007 19:50:30	10AlpCMi	8	29025
18-SEP-2007 19:59:56	9AlpCMa	1	29025
18-SEP-2007 20:02:00	21EpsCMa	23	29025
18-SEP-2007 20:05:46	DSA1059	0	29025
18-SEP-2007 20:08:12	AlpCol	108	29026
18-SEP-2007 20:20:05	The1Eri	157	29026

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_1PNPDE20070918_000050_00000522061_00403_29014_1888.N1	18-SEP-2007 00:00:50	Dark	51.500	108	Alp Col	2.6520	15200.	103	29014	No
2	GOM_TRA_1PNPDE20070918_001246_00000572061_00403_29014_1889.N1	18-SEP-2007 00:12:46	Dark	56.500	157	The1Eri	2.9060	9300.0	113	29014	No
3	GOM_TRA_1PNPDE20070918_001813_00000442061_00403_29014_1890.N1	18-SEP-2007 00:18:13	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	29014	No
4	GOM_TRA_1PNPDE20070918_002547_00000562061_00403_29014_1891.N1	18-SEP-2007 00:25:47	Twilight_stray	56.000	52	16Bet Cet	2.0370	4500.0	112	29014	No
5	GOM_TRA_1PNPDE20070918_003632_00000382061_00403_29014_1892.N1	18-SEP-2007 00:36:32	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	29014	No
6	GOM_TRA_1PNPDE20070918_004023_00000412061_00403_29014_1893.N1	18-SEP-2007 00:40:23	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	29014	No
7	GOM_TRA_1PNPDE20070918_004218_00000452061_00403_29014_1894.N1	18-SEP-2007 00:42:18	Bright	45.000	58	21Alp And	2.0730	11000.	90	29014	No
8	GOM_TRA_1PNPDE20070918_005034_00000372061_00403_29014_1895.N1	18-SEP-2007 00:50:34	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	29014	No
9	GOM_TRA_1PNPDE20070918_005219_00000422061_00403_29014_1896.N1	18-SEP-2007 00:52:19	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	29014	No
10	GOM_TRA_1PNPDE20070918_011501_00000452061_00403_29014_1897.N1	18-SEP-2007 01:15:01	Bright	44.500	24	66Alp Gem	1.5800	10200.	89	29014	No
11	GOM_TRA_1PNPDE20070918_012352_00000612061_00403_29014_1898.N1	18-SEP-2007 01:23:52	Dark	60.500	8	10Alp CMi	0.40000	6500.0	121	29014	No
12	GOM_TRA_1PNPDE20070918_013311_00000712061_00403_29014_2029.N1	18-SEP-2007 01:33:11	Dark	71.000	1	9Alp CMa	-1.4400	11000.	142	29014	No
13	GOM_TRA_1PNPDE20070918_013519_00000502061_00403_29014_2030.N1	18-SEP-2007 01:35:19	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	29014	No
14	GOM_TRA_1PNPDE20070918_014127_00000532061_00404_29015_2031.N1	18-SEP-2007 01:41:27	Dark	52.500	108	Alp Col	2.6520	15200.	105	29015	No
15	GOM_TRA_1PNPDE20070918_015323_00000572061_00404_29015_2032.N1	18-SEP-2007 01:53:23	Dark	56.500	157	The1Eri	2.9060	9300.0	113	29015	No
16	GOM_TRA_1PNPDE20070918_015849_00000432061_00404_29015_2033.N1	18-SEP-2007 01:58:49	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	29015	No
17	GOM_TRA_1PNPDE20070918_020623_00000582061_00404_29015_2034.N1	18-SEP-2007 02:06:23	Twilight_stray	58.000	52	16Bet Cet	2.0370	4500.0	116	29015	No
18	GOM_TRA_1PNPDE20070918_021708_00000392061_00404_29015_2035.N1	18-SEP-2007 02:17:08	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29015	No
19	GOM_TRA_1PNPDE20070918_022058_00000382061_00404_29015_2036.N1	18-SEP-2007 02:20:58	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29015	No
20	GOM_TRA_1PNPDE20070918_022253_00000472061_00404_29015_2037.N1	18-SEP-2007 02:22:53	Bright	47.000	58	21Alp And	2.0730	11000.	94	29015	No
21	GOM_TRA_1PNPDE20070918_023109_00000392061_00404_29015_2038.N1	18-SEP-2007 02:31:09	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	29015	No
22	GOM_TRA_1PNPDE20070918_023254_00000402061_00404_29015_2039.N1	18-SEP-2007 02:32:54	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	29015	No
23	GOM_TRA_1PNPDE20070918_025537_00000622061_00404_29015_2150.N1	18-SEP-2007 02:55:37	Bright	62.000	24	66Alp Gem	1.5800	10200.	124	29015	No
24	GOM_TRA_1PNPDE20070918_030428_00000622061_00404_29015_2151.N1	18-SEP-2007 03:04:28	Dark	62.000	8	10Alp CMi	0.40000	6500.0	124	29015	No
25	GOM_TRA_1PNPDE20070918_031349_00000592061_00404_29015_2152.N1	18-SEP-2007 03:13:49	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	29015	No
26	GOM_TRA_1PNPDE20070918_031556_00000482061_00404_29015_2153.N1	18-SEP-2007 03:15:56	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	29015	No
27	GOM_TRA_1PNPDE20070918_032204_00000532061_00405_29016_2154.N1	18-SEP-2007 03:22:04	Dark	53.000	108	Alp Col	2.6520	15200.	106	29016	No
28	GOM_TRA_1PNPDE20070918_033400_00000562061_00405_29016_2155.N1	18-SEP-2007 03:34:00	Dark	56.000	157	The1Eri	2.9060	9300.0	112	29016	No
29	GOM_TRA_1PNPDE20070918_033926_00000452061_00405_29016_2156.N1	18-SEP-2007 03:39:26	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	29016	No
30	GOM_TRA_1PNPDE20070918_034659_00000602061_00405_29016_2157.N1	18-SEP-2007 03:46:59	Twilight_stray	60.000	52	16Bet Cet	2.0370	4500.0	120	29016	No
31	GOM_TRA_1PNPDE20070918_035744_00000402061_00405_29016_2158.N1	18-SEP-2007 03:57:44	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	29016	No
32	GOM_TRA_1PNPDE20070918_040134_00000402061_00405_29016_2159.N1	18-SEP-2007 04:01:34	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	29016	No
33	GOM_TRA_1PNPDE20070918_040329_00000462061_00405_29016_2160.N1	18-SEP-2007 04:03:29	Bright	45.500	58	21Alp And	2.0730	11000.	91	29016	No
34	GOM_TRA_1PNPDE20070918_041145_00000412061_00405_29016_2161.N1	18-SEP-2007 04:11:45	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	29016	No
35	GOM_TRA_1PNPDE20070918_041330_00000382061_00405_29016_2162.N1	18-SEP-2007 04:13:30	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29016	No
36	GOM_TRA_1PNPDE20070918_043613_00000452061_00405_29016_2318.N1	18-SEP-2007 04:36:13	Bright	45.000	24	66Alp Gem	1.5800	10200.	90	29016	No
37	GOM_TRA_1PNPDE20070918_044505_00000542061_00405_29016_2319.N1	18-SEP-2007 04:45:05	Dark	54.000	8	10Alp CMi	0.40000	6500.0	108	29016	No
38	GOM_TRA_1PNPDE20070918_045426_00000622061_00405_29016_2320.N1	18-SEP-2007 04:54:26	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	29016	No
39	GOM_TRA_1PNPDE20070918_045632_00000522061_00405_29016_2321.N1	18-SEP-2007 04:56:32	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	29016	No
40	GOM_TRA_1PNPDE20070918_050241_00000522061_00406_29017_2322.N1	18-SEP-2007 05:02:41	Dark	52.000	108	Alp Col	2.6520	15200.	104	29017	No
41	GOM_TRA_1PNPDE20070918_051437_00000552061_00406_29017_2323.N1	18-SEP-2007 05:14:37	Dark	54.500	157	The1Eri	2.9060	9300.0	109	29017	No
42	GOM_TRA_1PNPDE20070918_052002_00000492061_00406_29017_2324.N1	18-SEP-2007 05:20:02	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	29017	No
43	GOM_TRA_1PNPDE20070918_052735_00000592061_00406_29017_2325.N1	18-SEP-2007 05:27:35	Twilight_stray	59.000	52	16Bet Cet	2.0370	4500.0	118	29017	No
44	GOM_TRA_1PNPDE20070918_053820_00000402061_00406_29017_2326.N1	18-SEP-2007 05:38:20	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	29017	No
45	GOM_TRA_1PNPDE20070918_054210_00000372061_00406_29017_2327.N1	18-SEP-2007 05:42:10	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	29017	No
46	GOM_TRA_1PNPDE20070918_054404_00000452061_00406_29017_2328.N1	18-SEP-2007 05:44:04	Bright	45.000	58	21Alp And	2.0730	11000.	90	29017	No
47	GOM_TRA_1PNPDE20070918_055220_00000412061_00406_29017_2329.N1	18-SEP-2007 05:52:20	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	29017	No
48	GOM_TRA_1PNPDE20070918_055405_00000412061_00406_29017_2330.N1	18-SEP-2007 05:54:05	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	29017	No
49	GOM_TRA_1PNPDE20070918_202529_00000432061_00415_29026_2727.N1	18-SEP-2007 20:25:29	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	29026	No
50	GOM_TRA_1PNPDE20070918_203300_00000542061_00415_29026_2728.N1	18-SEP-2007 20:33:00	Twilight_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	29026	No

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



4. Overview of dark signal processing per product

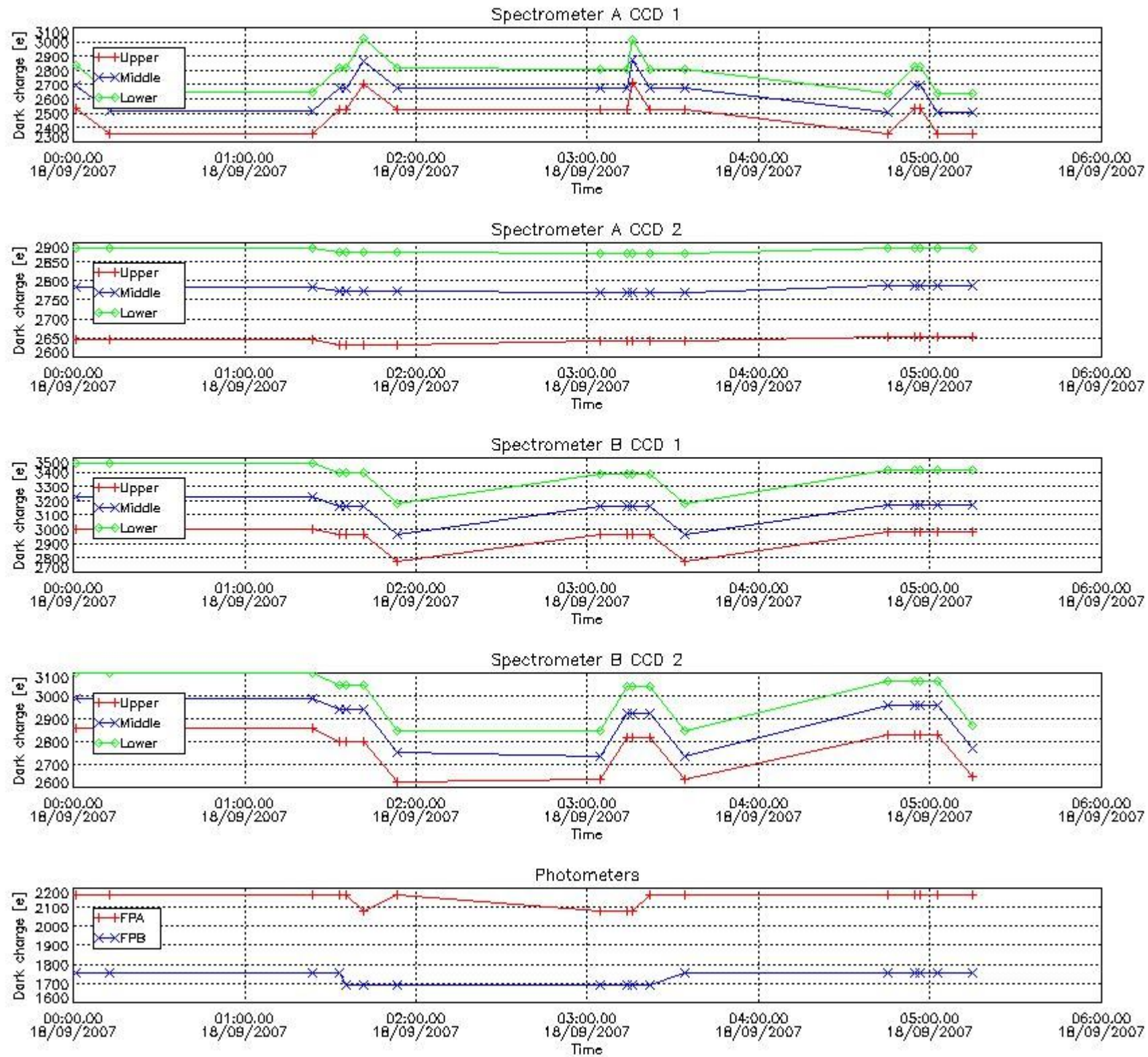
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

Product name	DC information
GOM_TRA_1PNPDE20070918_202529_000000432061_00415_29026_2727.N1	DC map used
GOM_TRA_1PNPDE20070918_203300_000000542061_00415_29026_2728.N1	DC map used

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



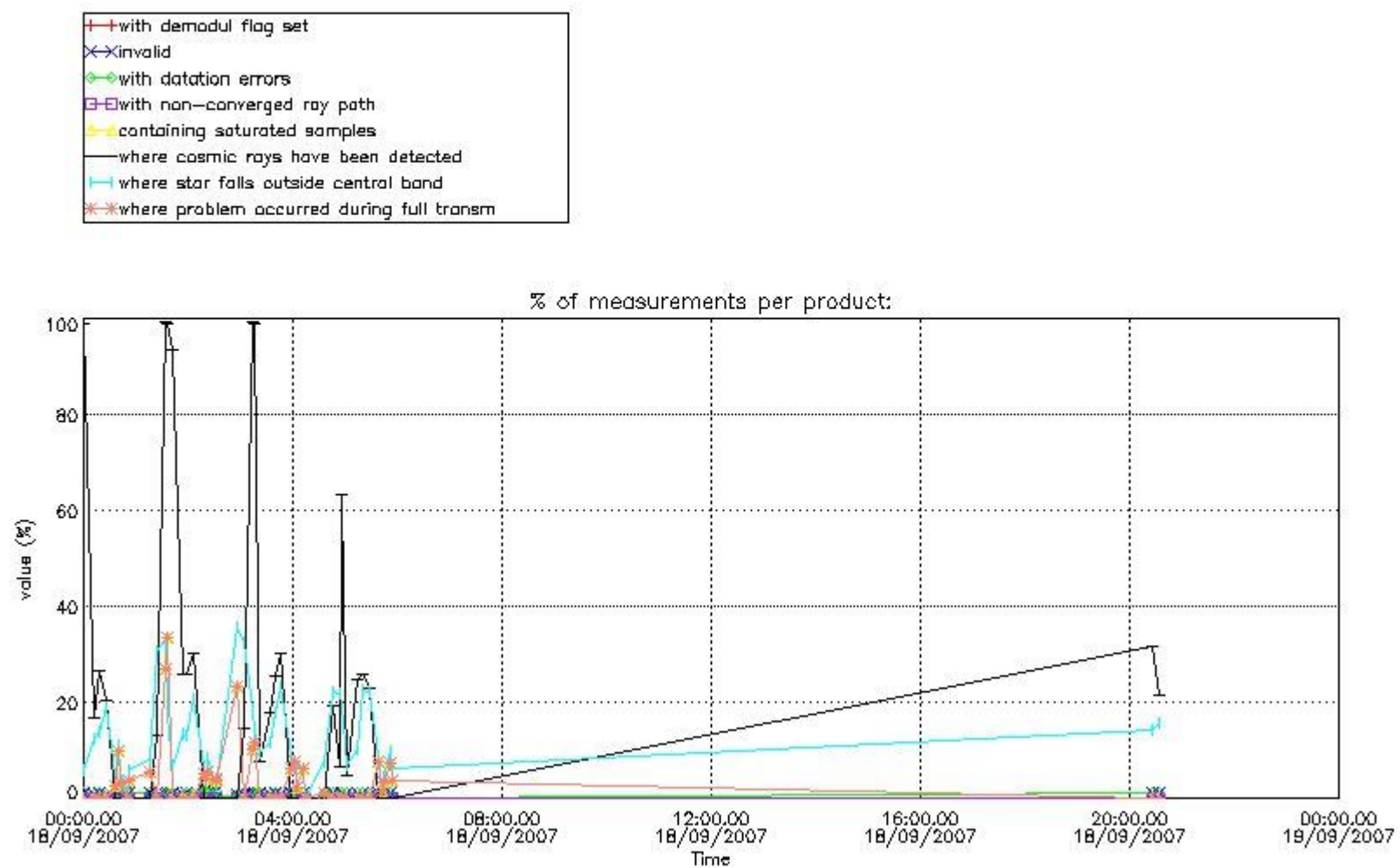
5. Demodulation flag and quality information monitoring

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

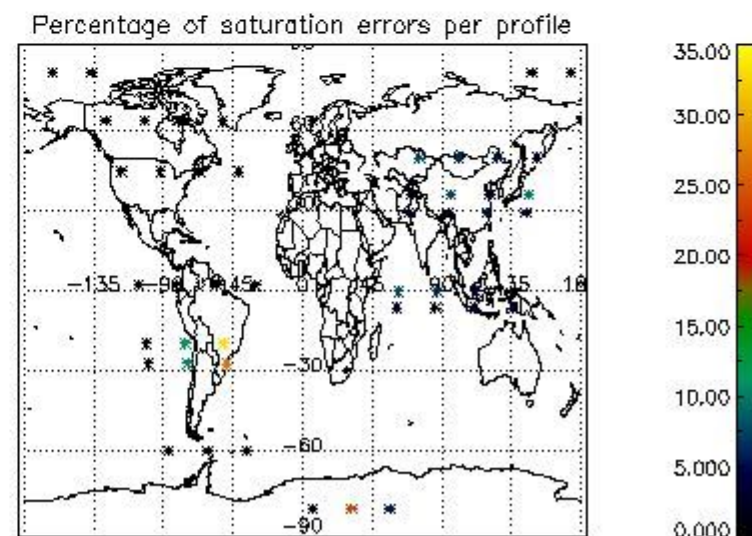
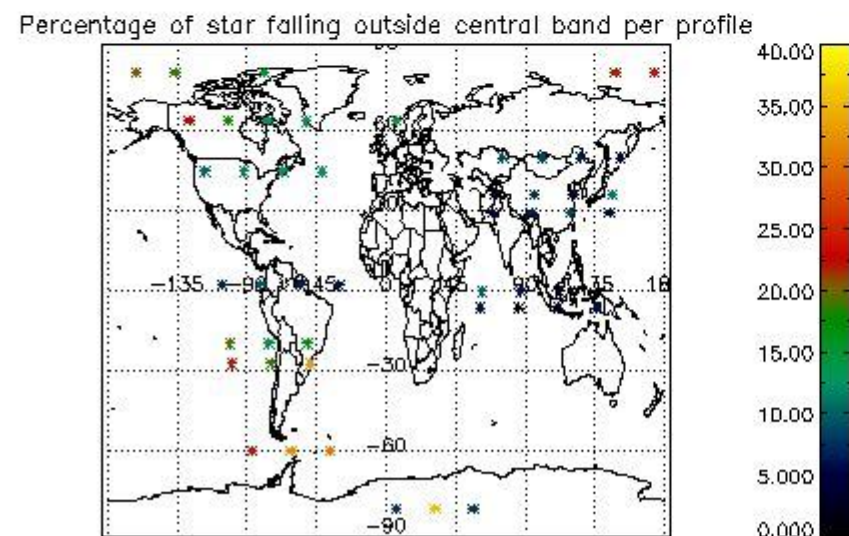
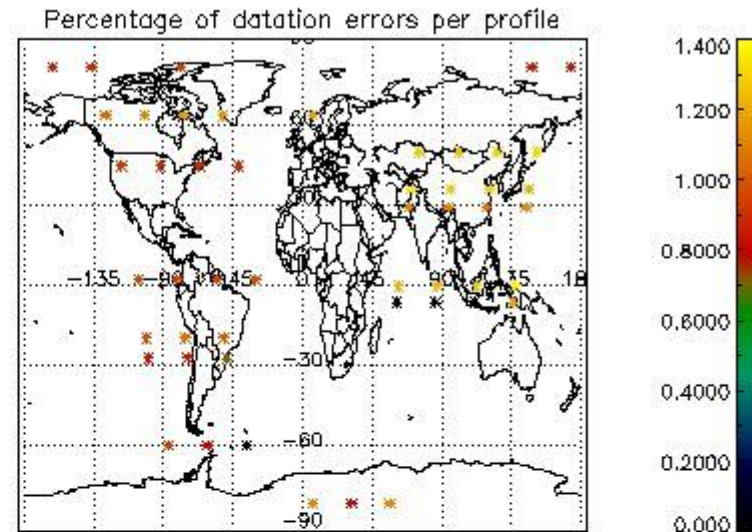
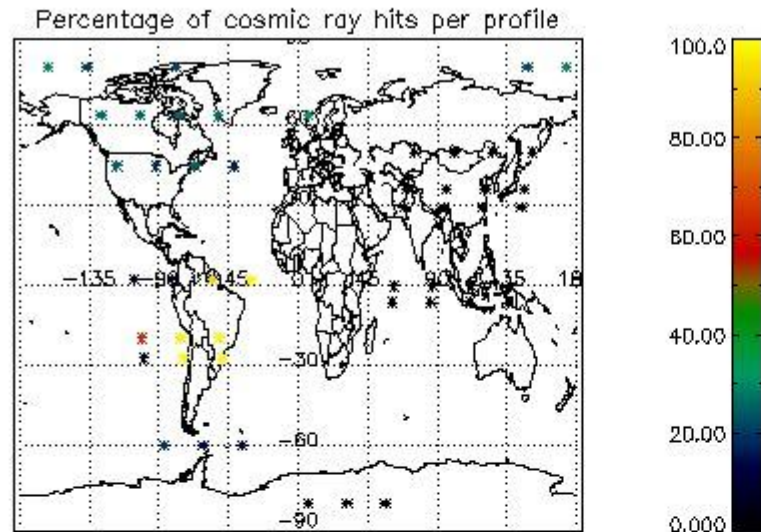
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



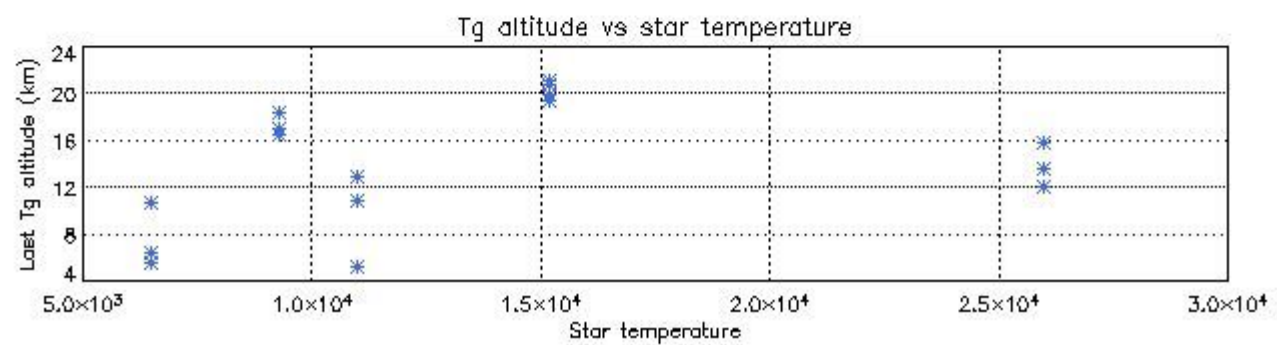
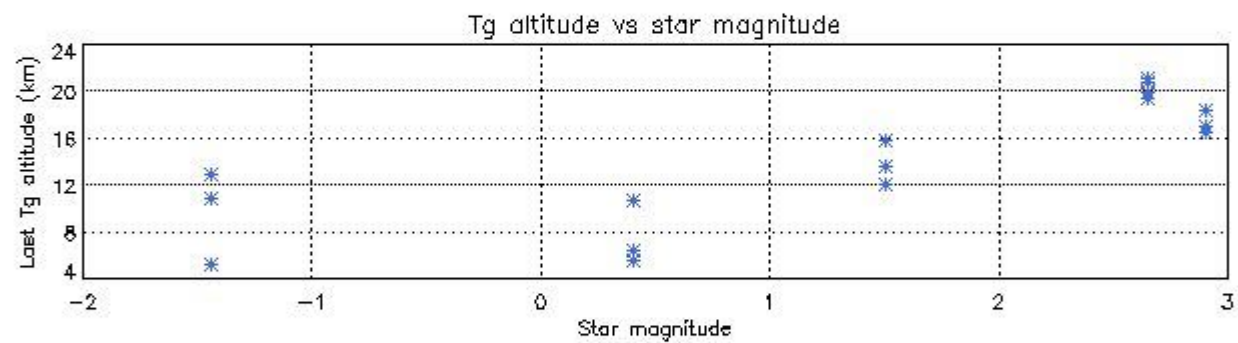
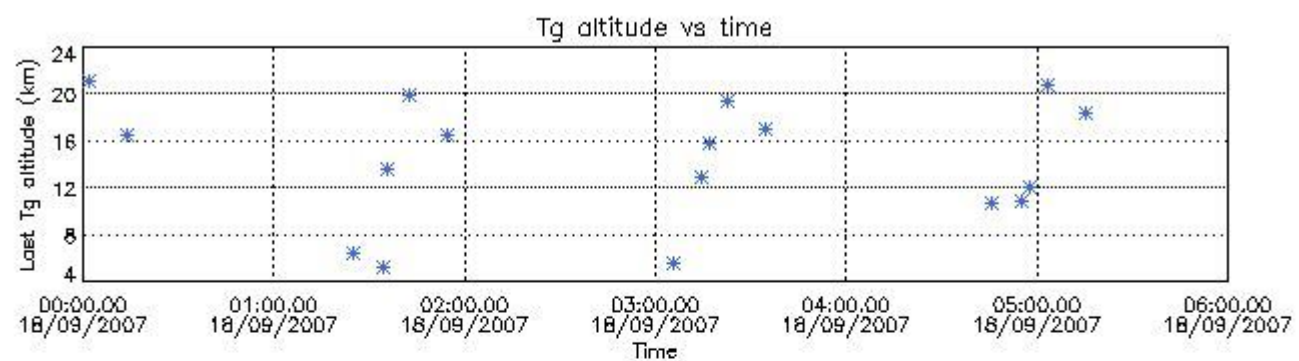
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.236	21.089	NaN
St. deviation:	5.2171	4.7759	NaN
Maximum:	21.052	30.796	NaN
Minimum:	5.1490	5.0609	NaN
Number of data:	17.000	23.000	NaN

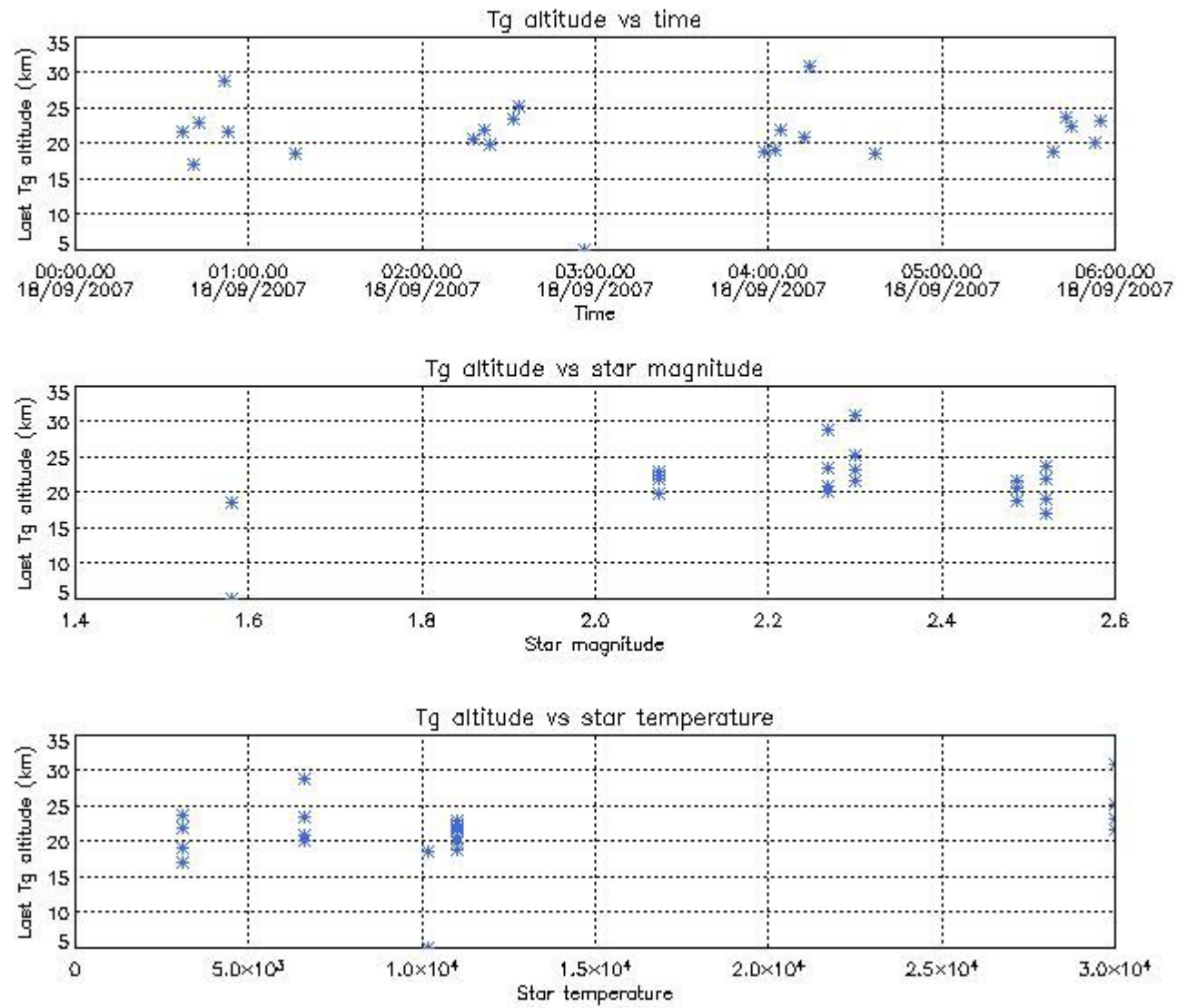
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

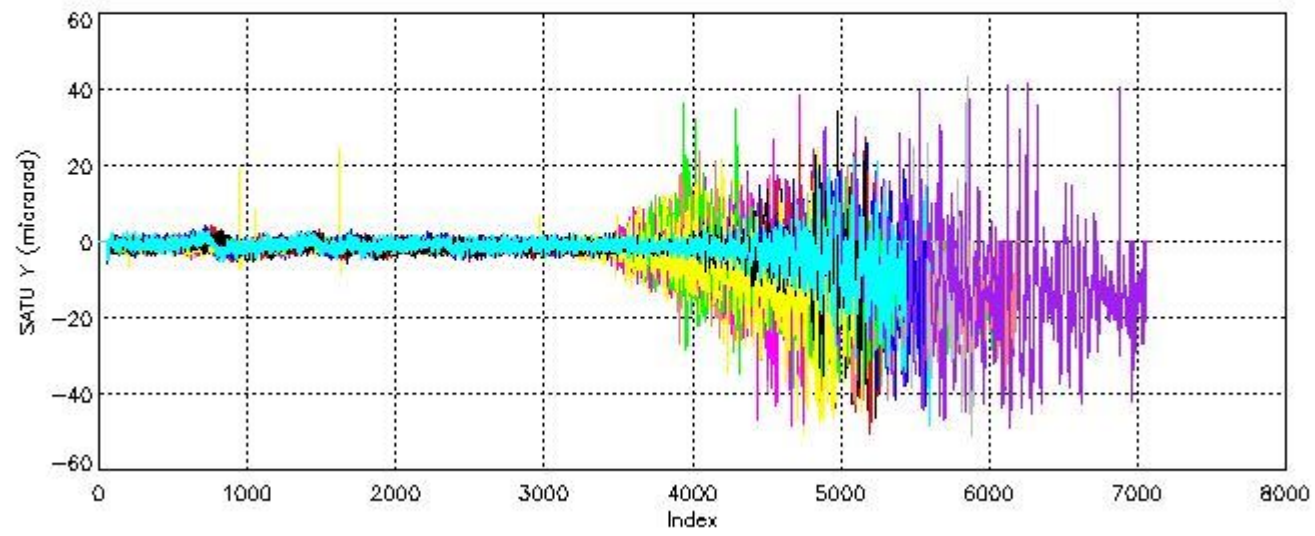
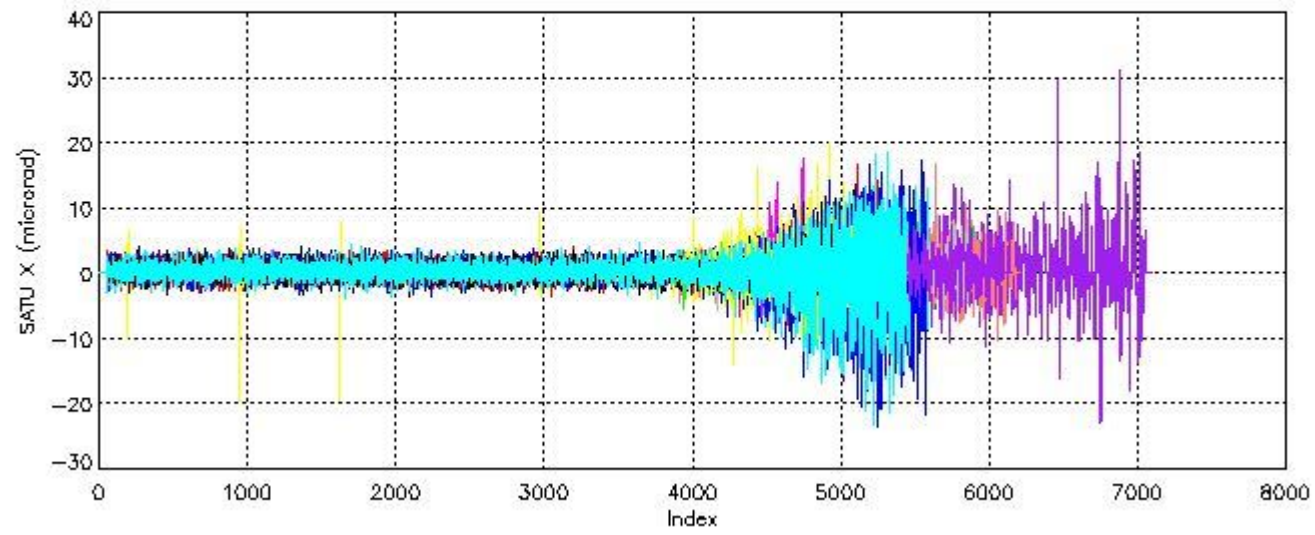


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30719	-1.1162	0.29583	-1.2459
St. deviation:	0.64587	1.1116	0.70996	1.2679
Maximum:	7.1000	18.800	4.4000	4.0000
Minimum:	-19.600	-7.5000	-3.8000	-7.0000

Number of data:	20600.	20600.	22350.	22350.
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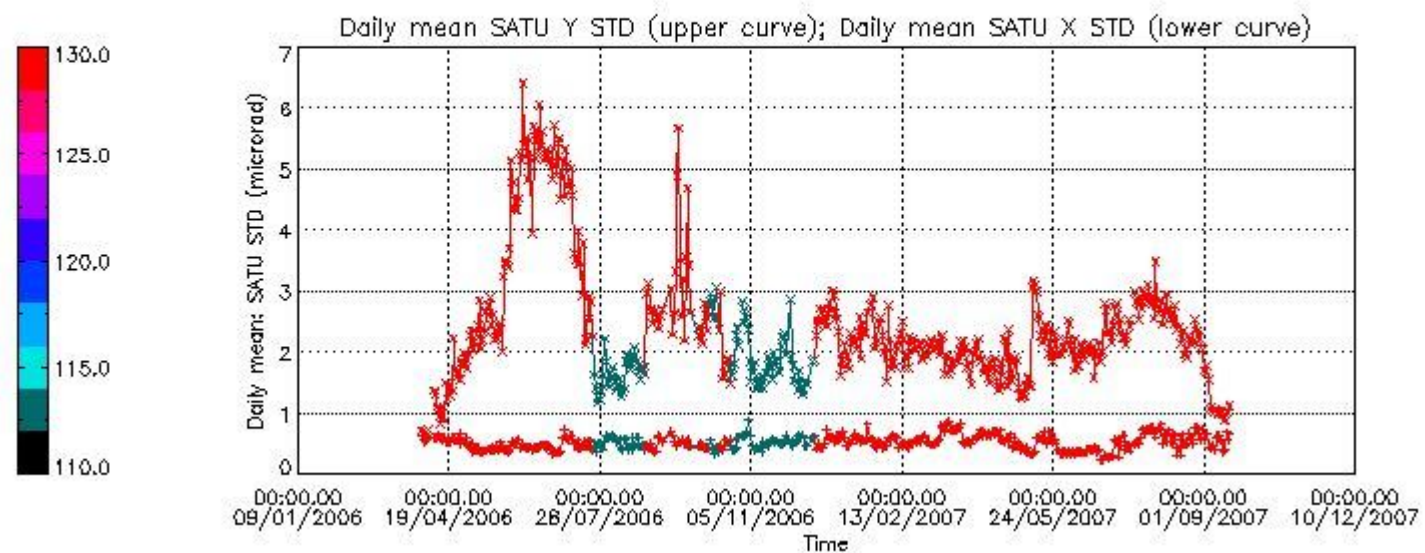
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

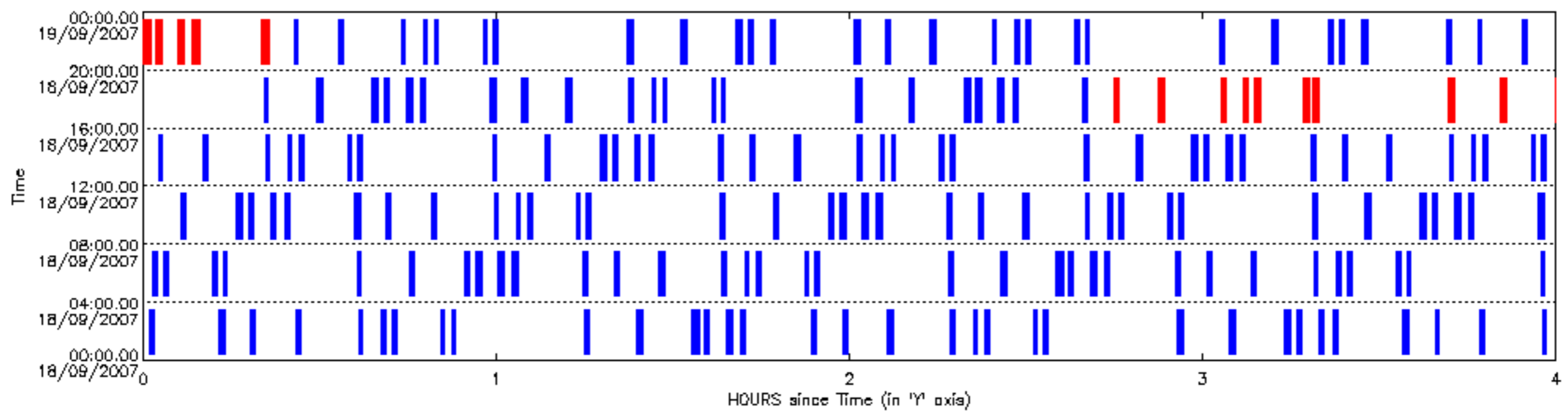
Lower curve: STD of SATU X axis

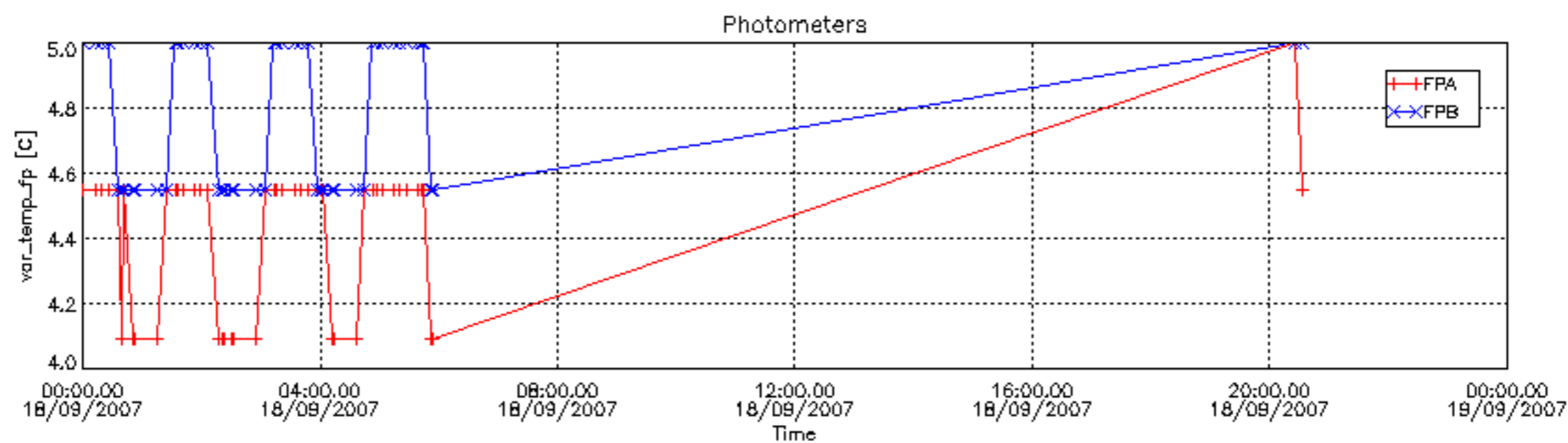
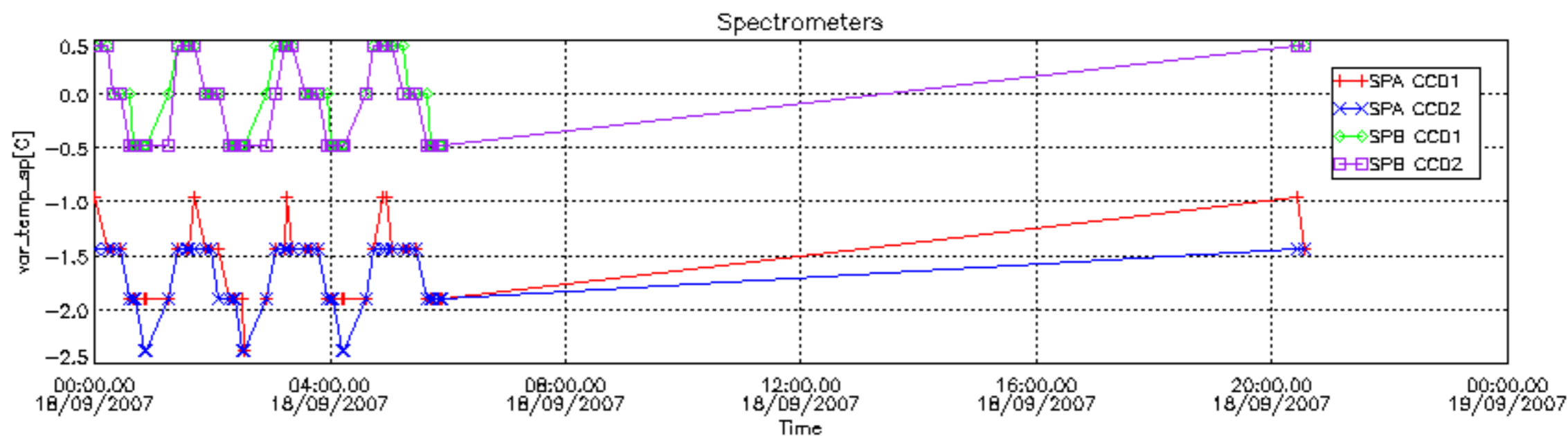


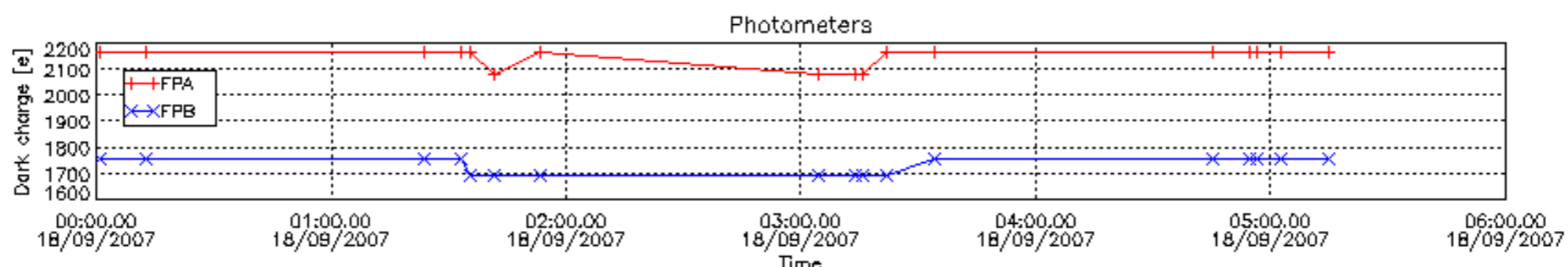
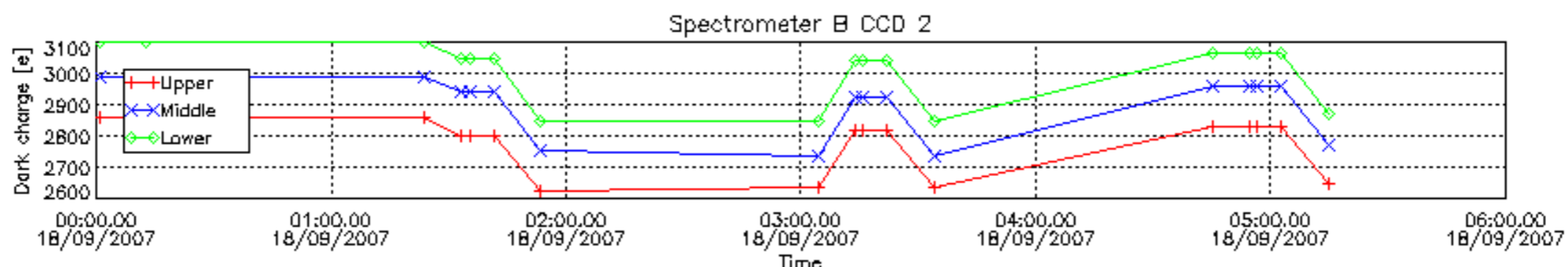
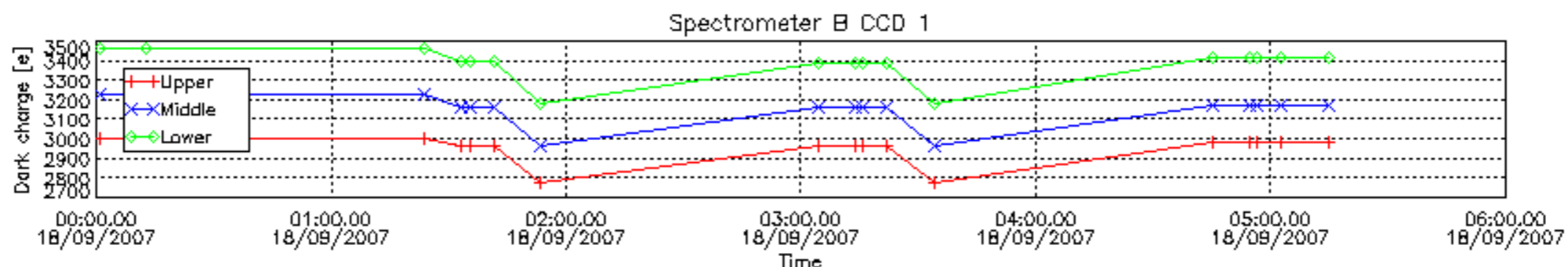
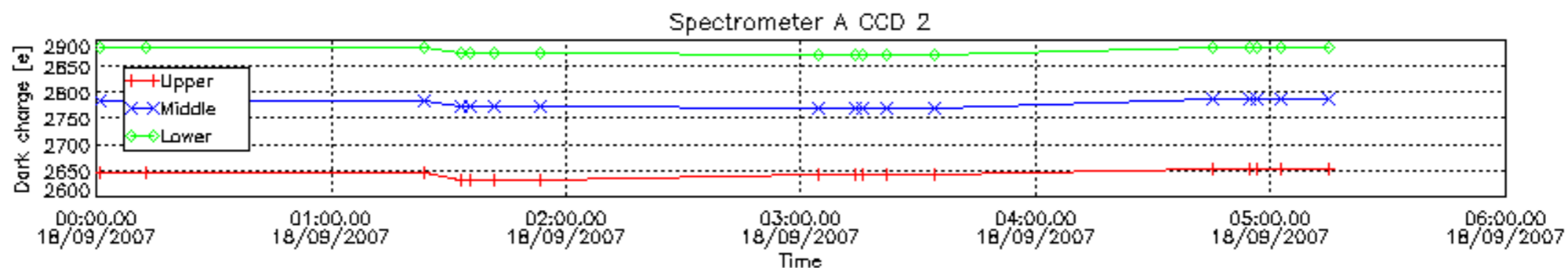
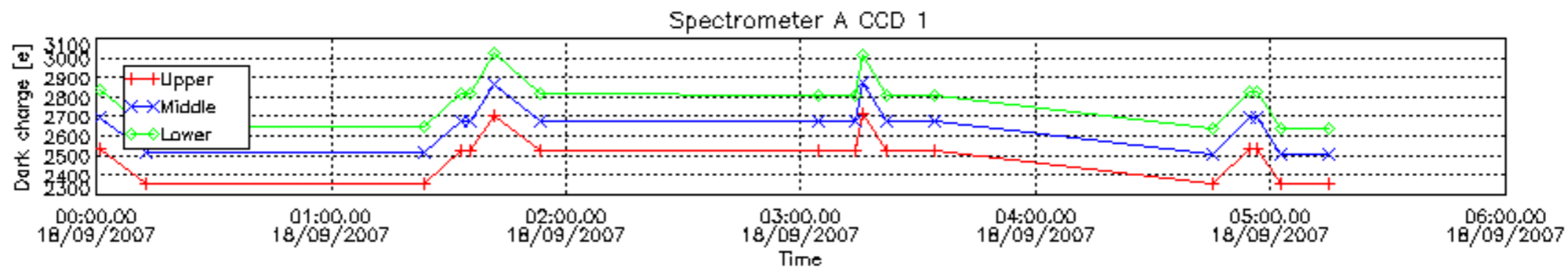
8. Auxiliary Data Files used for the production reported in section 2.4

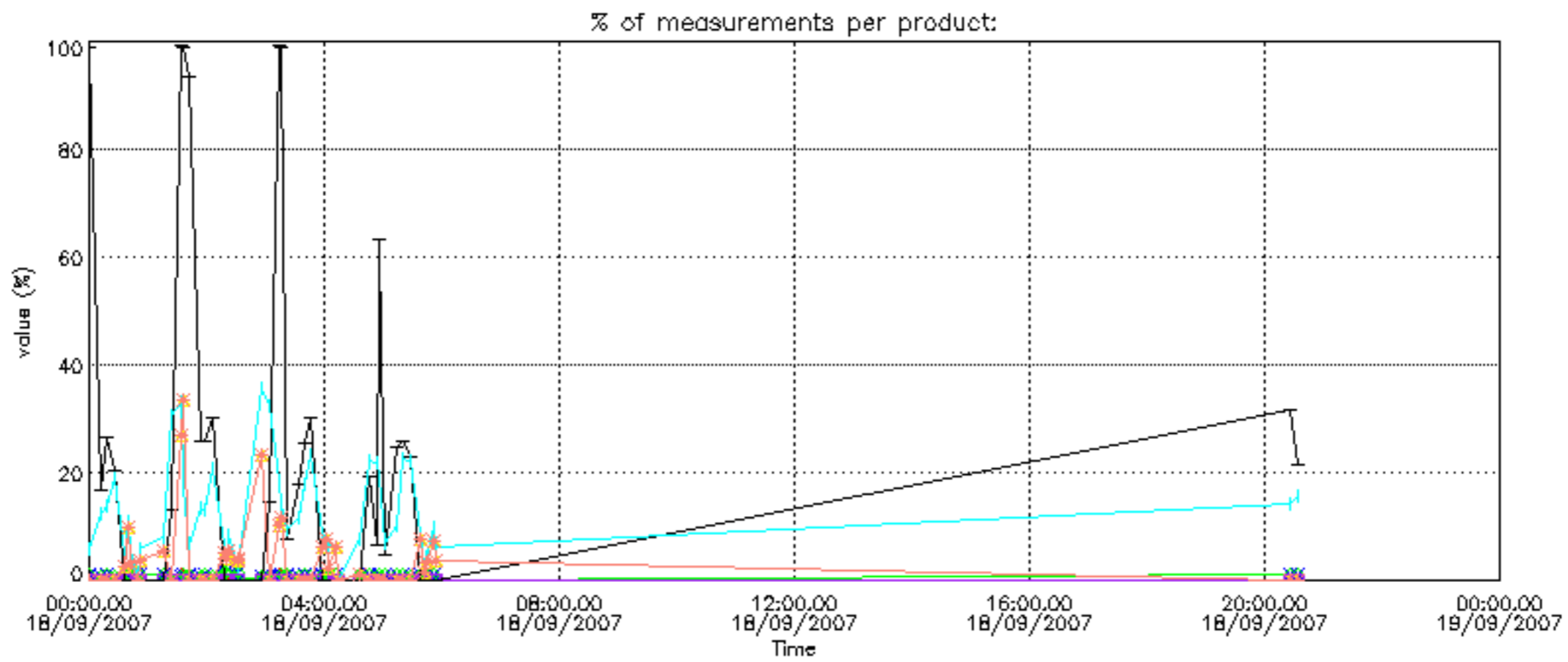
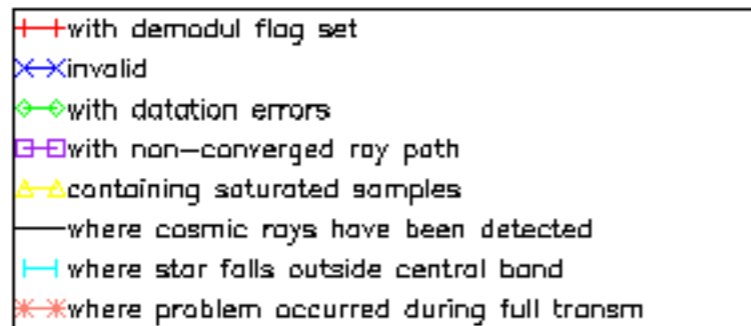
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-SEP-2007 00:00:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	18-SEP-2007 00:00:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-SEP-2007 00:00:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-SEP-2007 00:00:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-SEP-2007 00:00:50
ECMWF_FILE	AUX_ECF_AXNECM20070917_070116_20070917_210000_20070918_090000	1	18-SEP-2007 00:00:50
ECMWF_FILE	AUX_ECF_AXNECM20070917_190114_20070918_030000_20070918_150000	36	18-SEP-2007 04:36:13
ECMWF_FILE	AUX_ECF_AXNECM20070918_070114_20070918_150000_20070919_030000	49	18-SEP-2007 20:25:29
OPTIONAL_ECMWF_FILE	MISSING	1	18-SEP-2007 00:00:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070917_220137_000060572061_00401_29012_4197.N1	1	18-SEP-2007 00:00:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070917_234234_000057382061_00402_29013_4198.N1	12	18-SEP-2007 01:33:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070918_012331_000041442061_00403_29014_4199.N1	23	18-SEP-2007 02:55:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070918_023754_000057382061_00404_29015_4200.N1	36	18-SEP-2007 04:36:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070918_202032_000038252061_00415_29026_4202.N1	49	18-SEP-2007 20:25:29

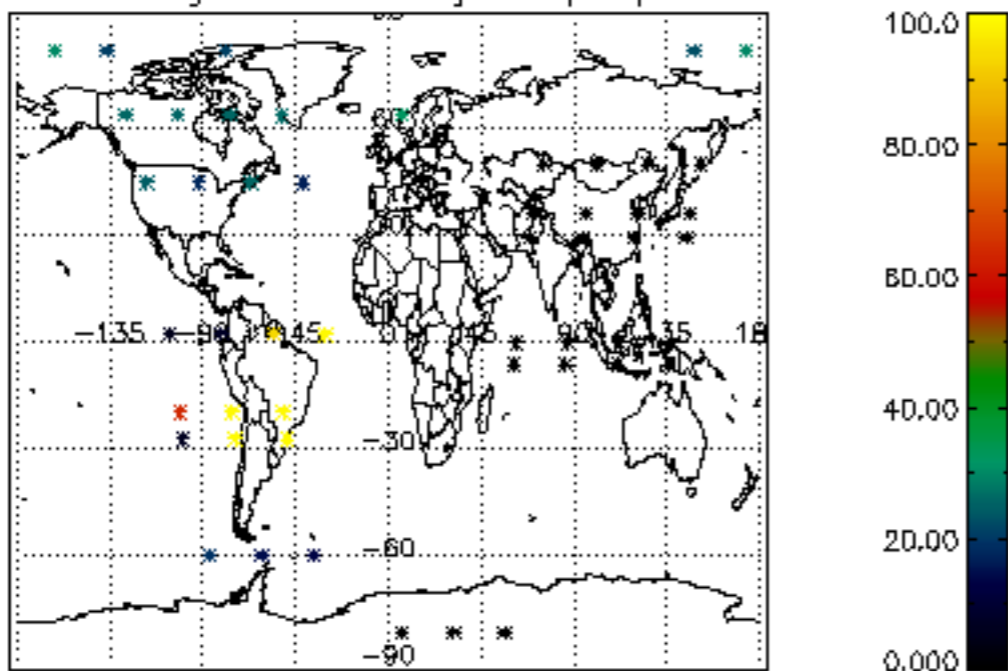




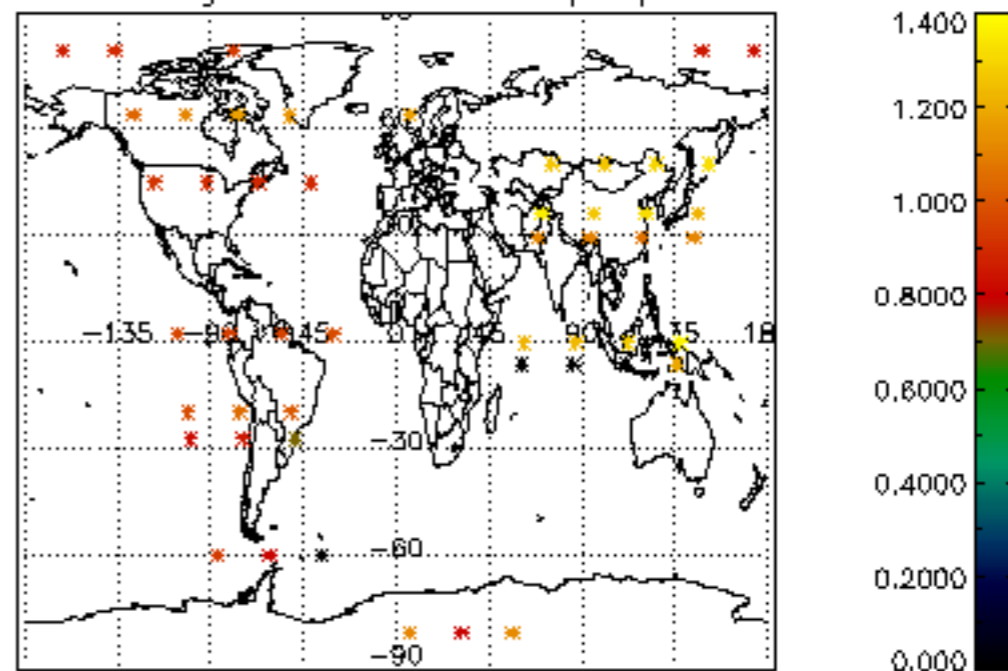




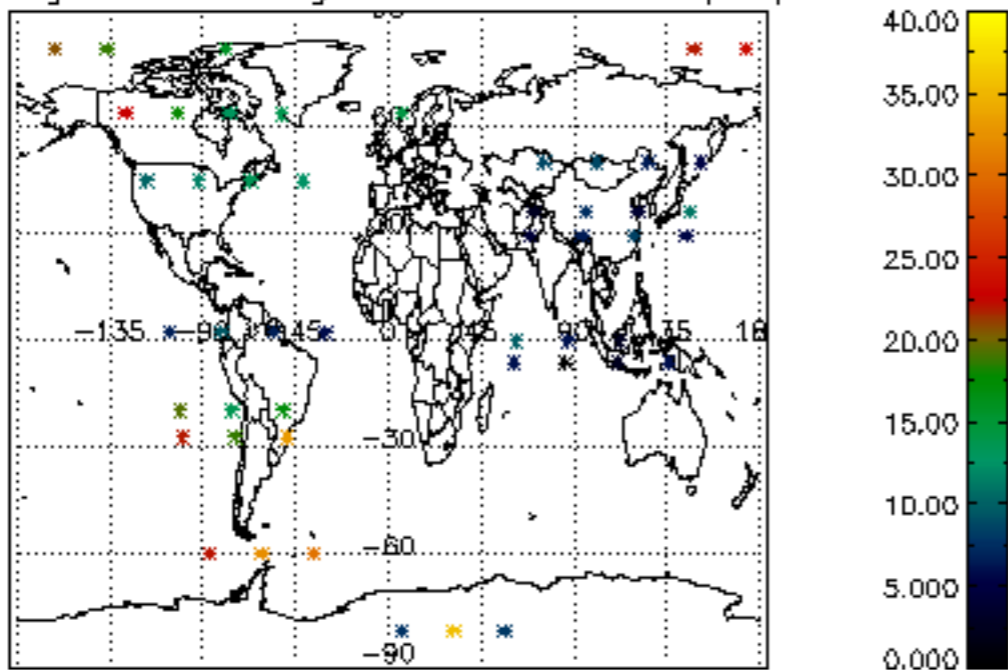
Percentage of cosmic ray hits per profile



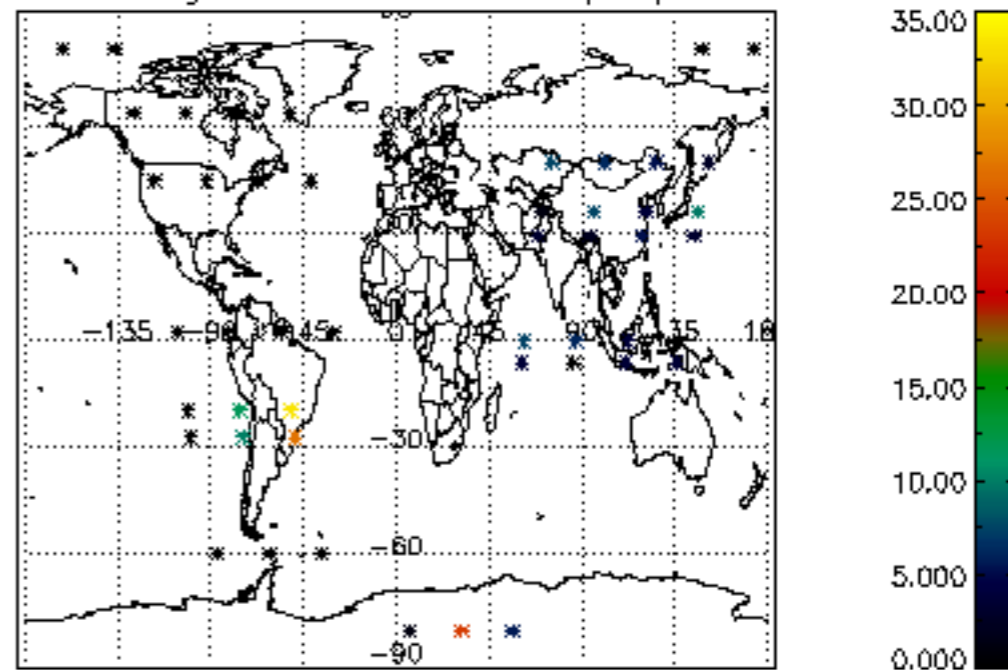
Percentage of datation errors per profile



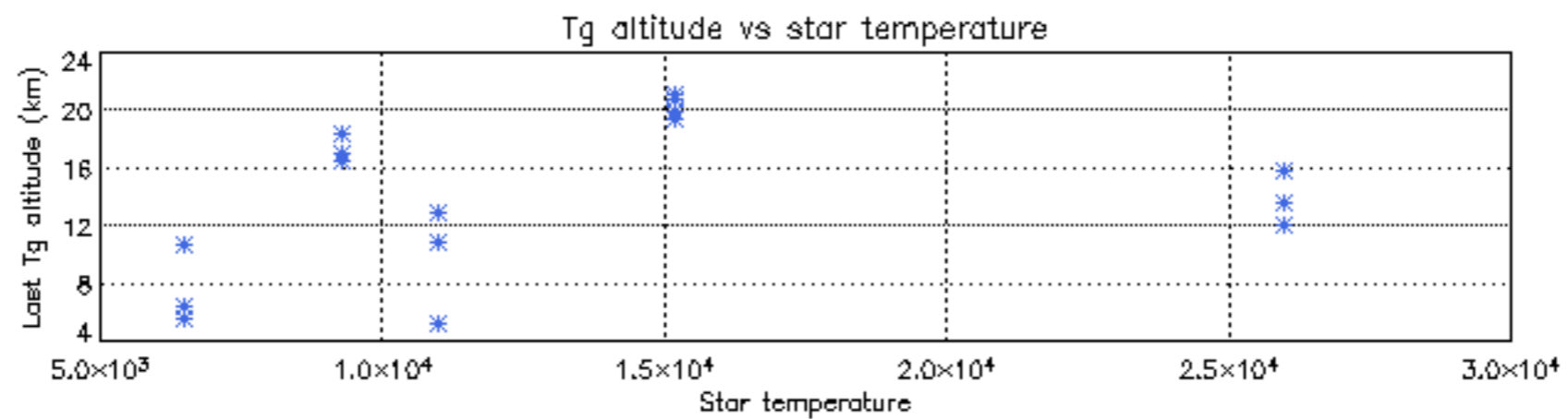
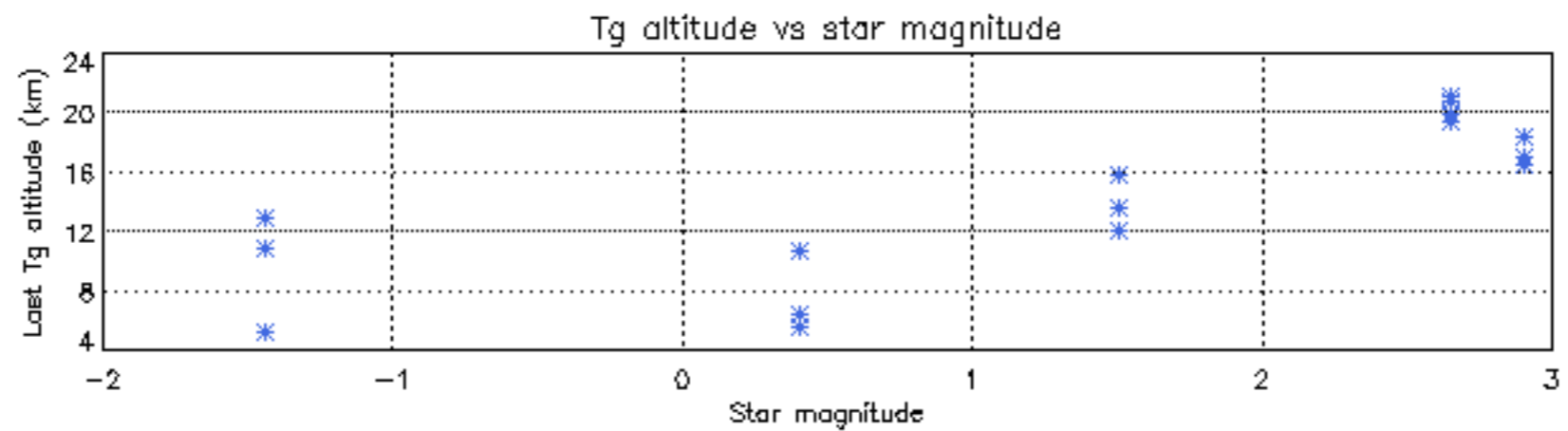
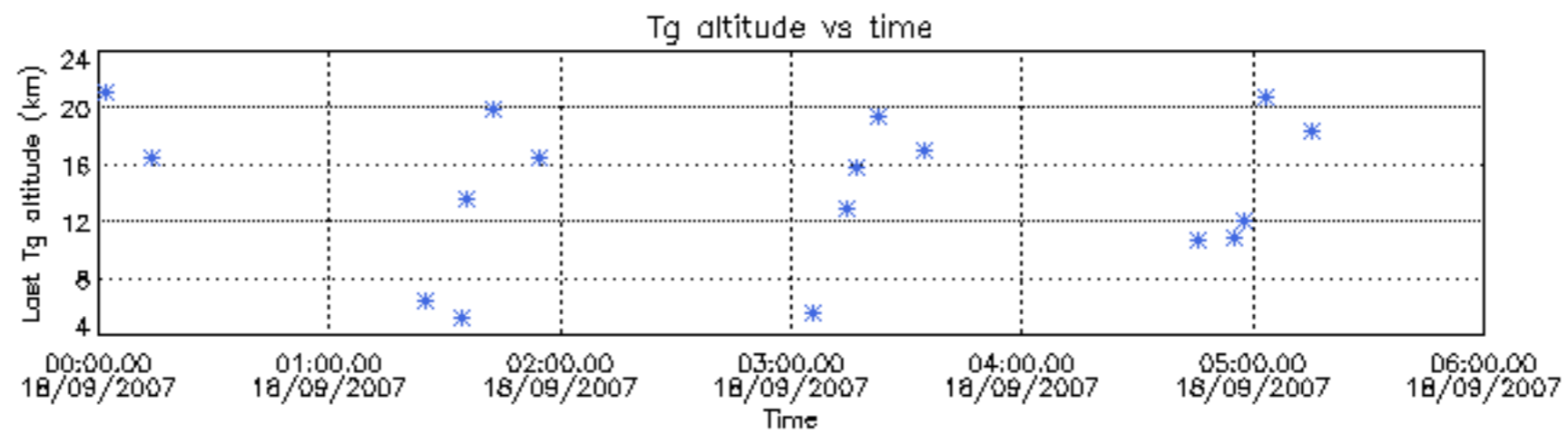
Percentage of star falling outside central band per profile



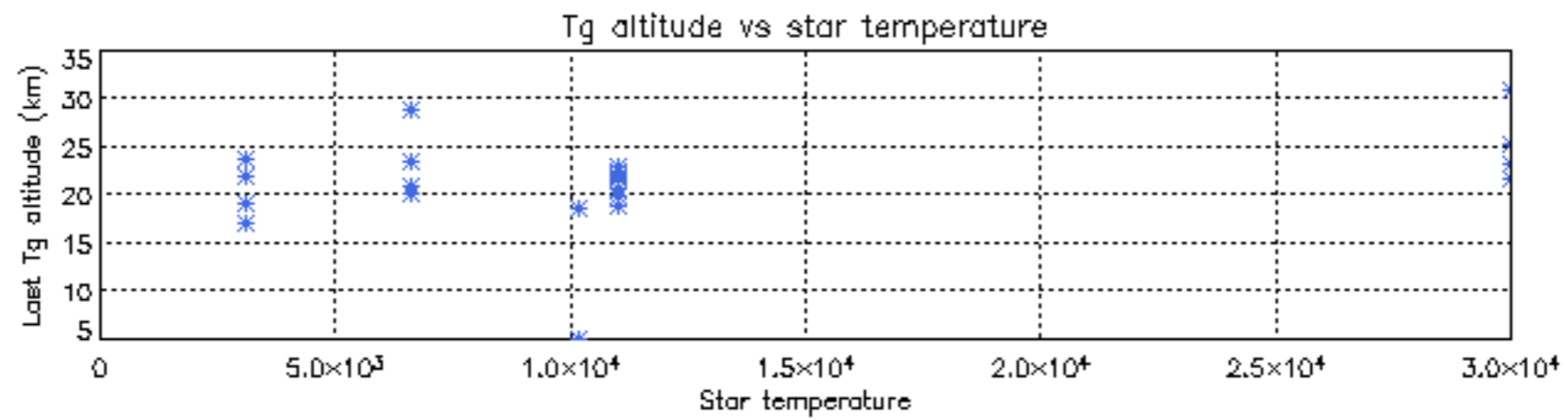
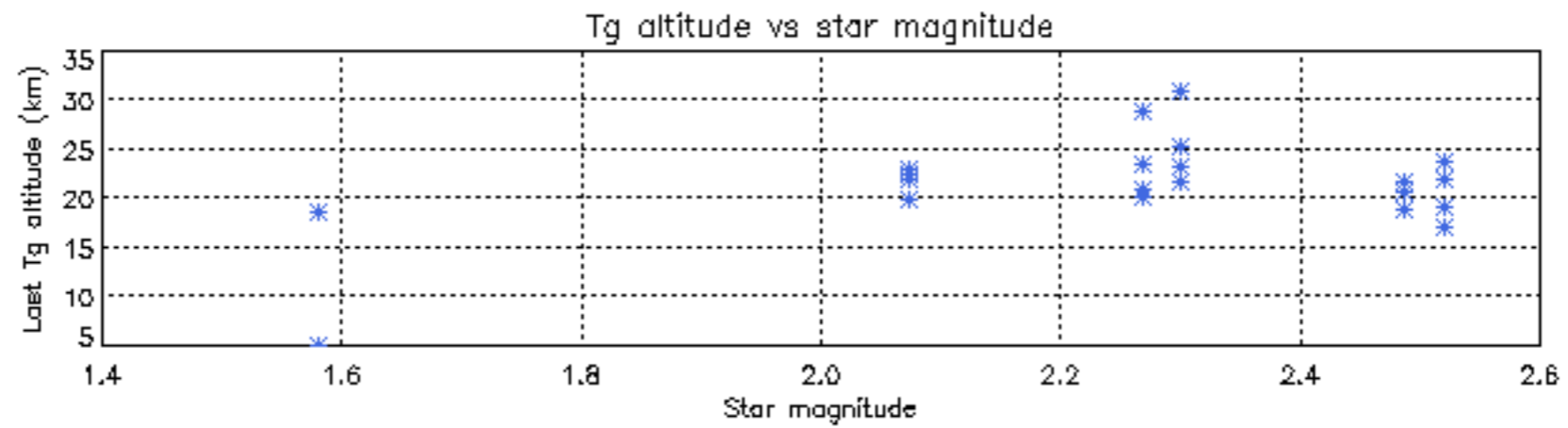
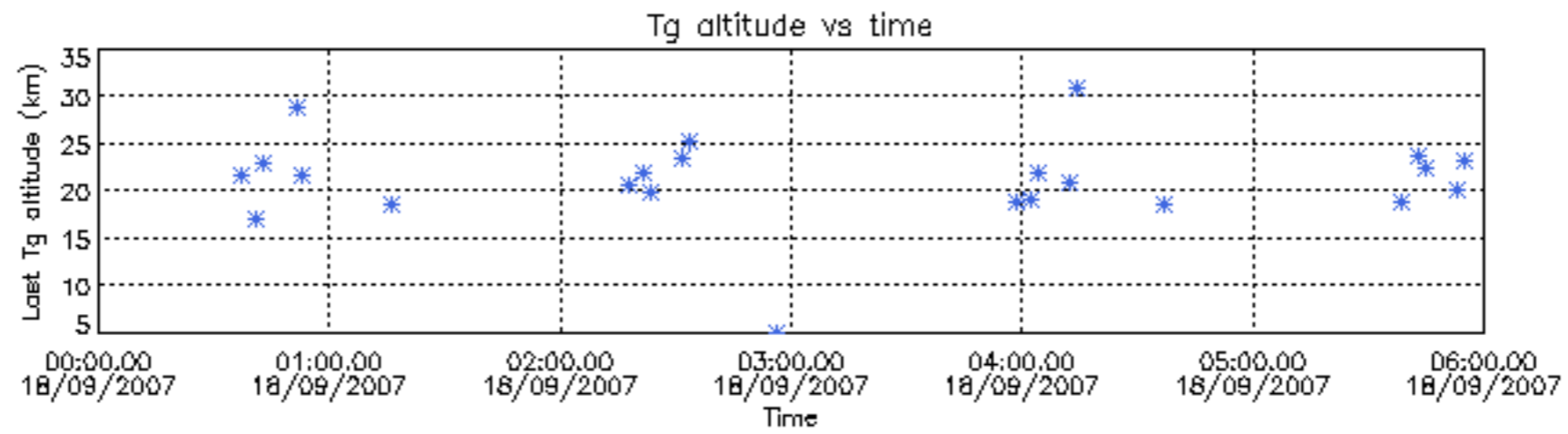
Percentage of saturation errors per profile

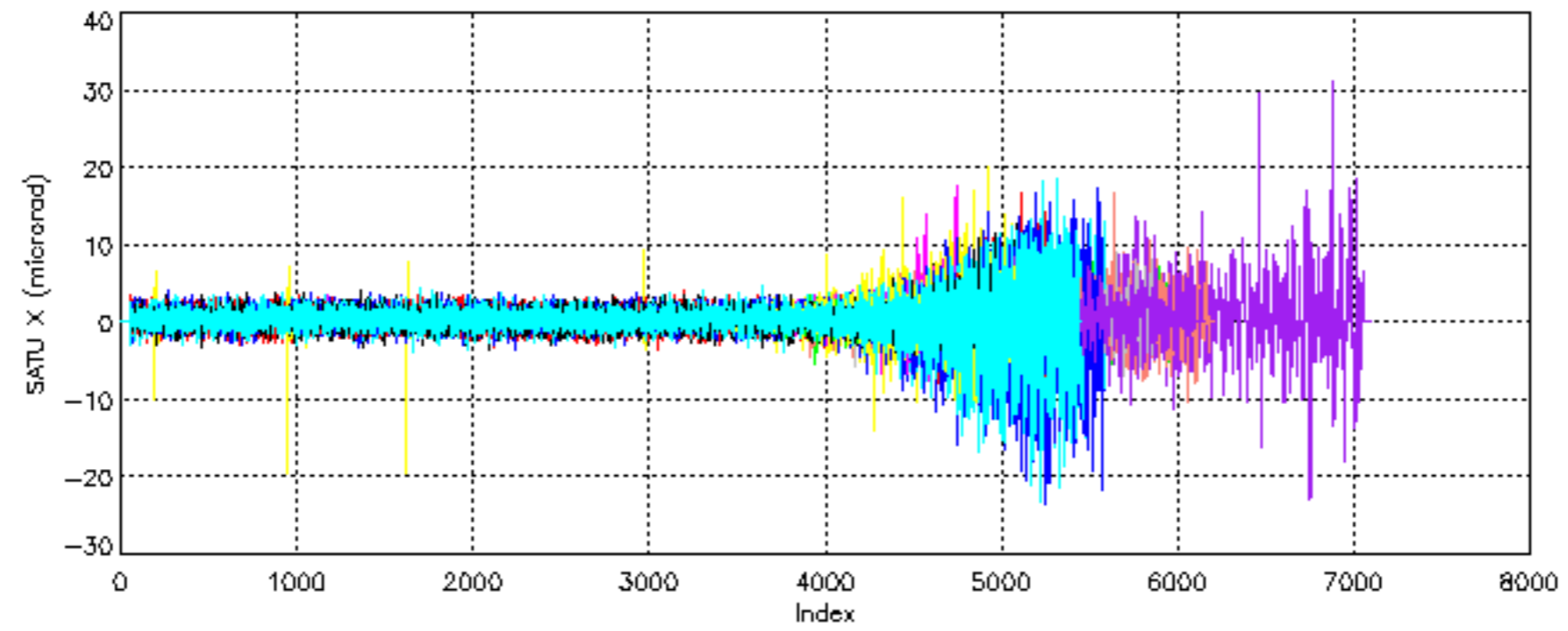


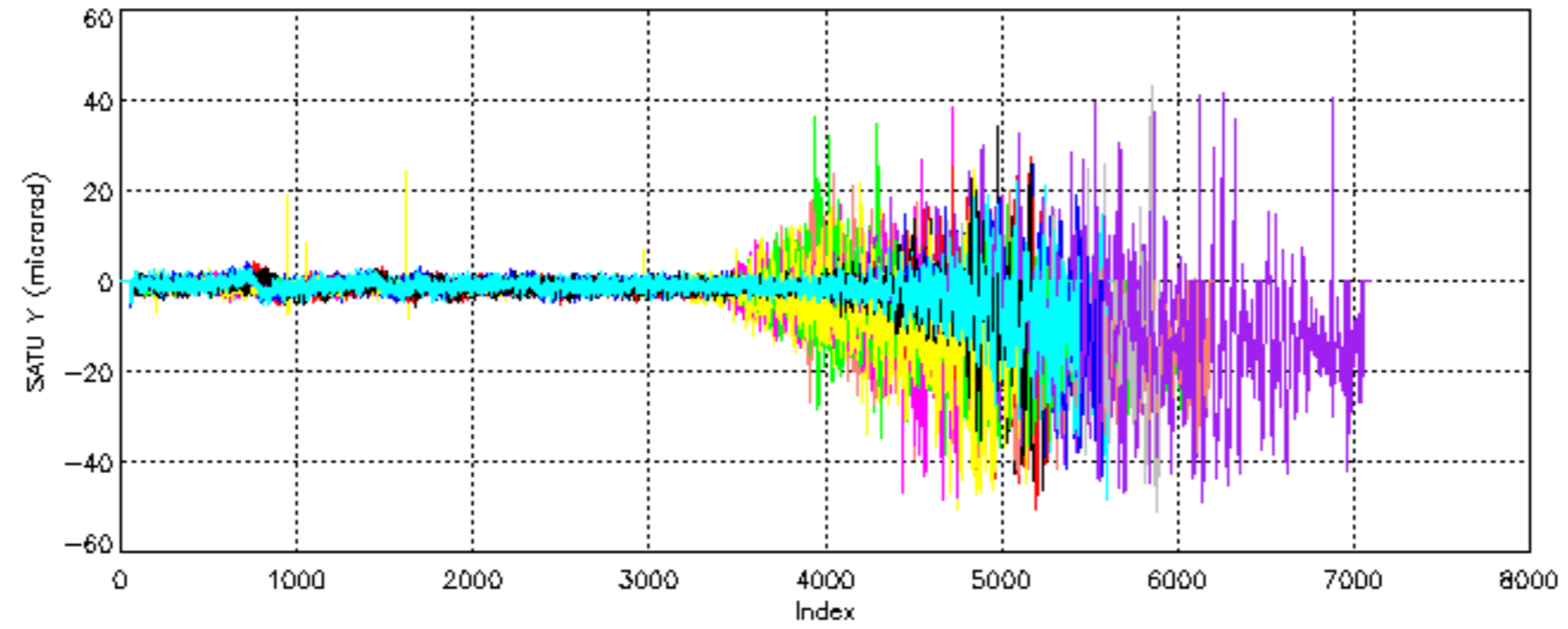
Tangent altitude at which the star is lost

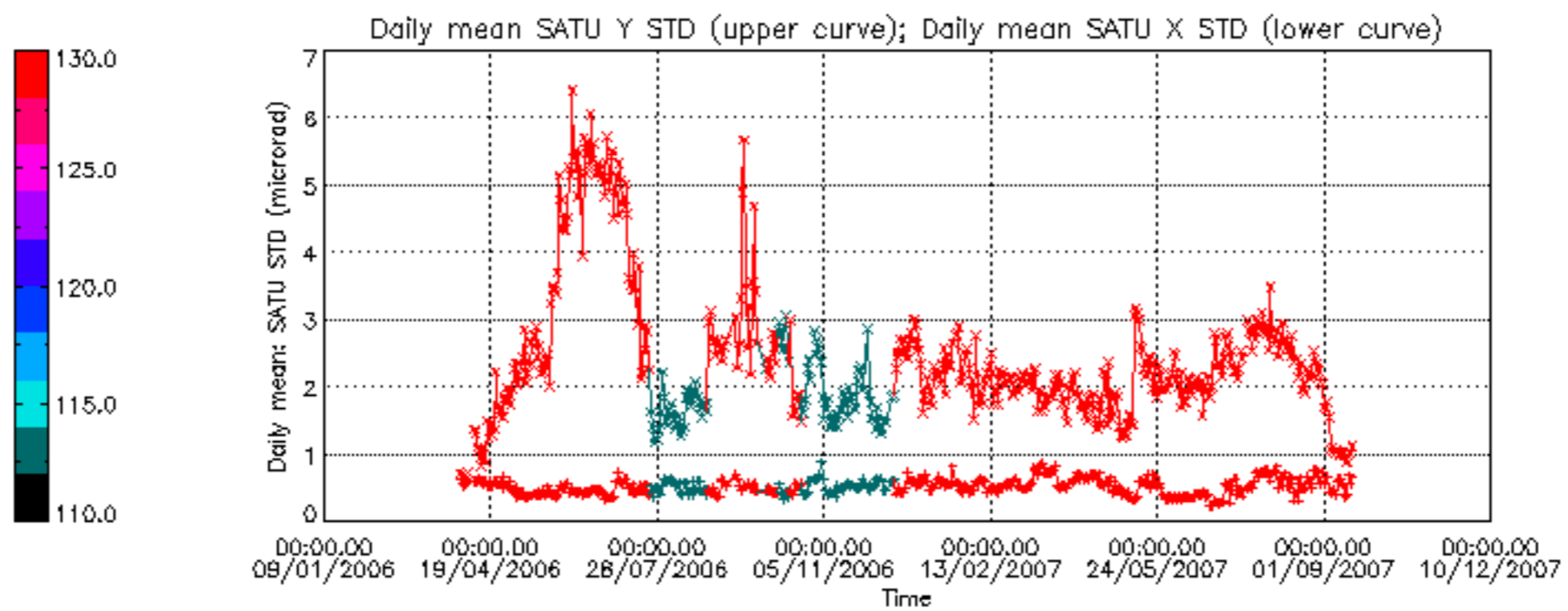


Tangent altitude at which the star is lost









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 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

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 2; -1425.0; 01-SEP-2007 03:32:15; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28772
 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28772
 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772
 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772
 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773
 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773
 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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1; -1584.0; 01-SEP-2007 05:10:12; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28773
 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773
 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773
 5; -664.1; 01-SEP-2007 05:25:32; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28773
 6; -498.1; 01-SEP-2007 05:28:18; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;28773
 7; -397.9; 01-SEP-2007 05:29:58; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28773
 8; -302.8; 01-SEP-2007 05:31:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28773
 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774
 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
15; 1896.0; 01-SEP-2007 06:08:12; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28774
16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
19; 3434.8; 01-SEP-2007 06:33:51; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;28774
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 2; 1331.2; 01-SEP-2007 21:04:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28783
 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
 5; 2075.4; 01-SEP-2007 21:16:35; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28783
 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 2; -493.0; 01-SEP-2007 22:14:22; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28783
 3; -296.2; 01-SEP-2007 22:17:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28783
 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
 8; 1620.4; 01-SEP-2007 22:49:36; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28784
 9; 1808.2; 01-SEP-2007 22:52:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28784
10; 1895.6; 01-SEP-2007 22:54:11; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28784
11; 2075.4; 01-SEP-2007 22:57:11; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28784
12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
14; 4453.4; 01-SEP-2007 23:36:49; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;28784
15; 4613.8; 01-SEP-2007 23:39:29; Dark ; 50.5; 170; 27Eps Gem ; 3.00; 9700;occ; 101; 0;28784
16; 4916.9; 01-SEP-2007 23:44:32; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28784
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 2; -492.5; 01-SEP-2007 23:54:59; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;28784
 3; -390.1; 01-SEP-2007 23:56:41; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28784
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 6; 531.5; 02-SEP-2007 00:12:03; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28785
 7; 609.0; 02-SEP-2007 00:13:20; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;28785
 8; 1053.3; 02-SEP-2007 00:20:44; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;28785
 9; 1331.7; 02-SEP-2007 00:25:23; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;28785
10; 1620.5; 02-SEP-2007 00:30:12; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28785
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7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

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 11; 1622.4; 02-SEP-2007 22:18:01; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;28798
 12; 1809.6; 02-SEP-2007 22:21:08; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28798
 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798
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 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799
 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799
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3; 1810.9; 03-SEP-2007 16:47:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28809
4; 1895.4; 03-SEP-2007 16:49:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28809
5; 2074.7; 03-SEP-2007 16:52:08; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28809
6; 2973.2; 03-SEP-2007 17:07:06; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28809
7; 3434.2; 03-SEP-2007 17:14:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28809
8; 4457.1; 03-SEP-2007 17:31:50; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28809
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13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809
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3; 2466.0; 07-SEP-2007 13:11:35; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;28864
4; 2970.4; 07-SEP-2007 13:19:59; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28864
5; 3433.5; 07-SEP-2007 13:27:42; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28864
6; 4464.5; 07-SEP-2007 13:44:53; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;28864
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 12; 5896.7; 07-SEP-2007 14:08:45; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;28864
 13; 5986.9; 07-SEP-2007 14:10:16; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;28864
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 16; 7045.9; 07-SEP-2007 14:27:55; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;28864
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 6; 3433.6; 07-SEP-2007 15:08:18; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28865
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 8; 4945.6; 07-SEP-2007 15:33:30; Dark ; 54.0; 8; 10Alp CMI ; 0.40; 6500;occ; 108; 0;28865
 9; 5435.5; 07-SEP-2007 15:41:40; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;28865
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 6; 3433.4; 07-SEP-2007 16:48:54; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28866
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 8; 4945.9; 07-SEP-2007 17:14:06; Dark ; 49.0; 8; 10Alp CMI ; 0.40; 6500;occ; 98; 0;28866
 9; 5436.2; 07-SEP-2007 17:22:17; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;28866
 10; 5591.1; 07-SEP-2007 17:24:52; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28866
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 12; 5799.4; 07-SEP-2007 17:28:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28866
 13; 5899.0; 07-SEP-2007 17:30:00; Dark ; 32.0; 108; Alp Col ; 2.65; 15200;occ; 64; 0;28866
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 16; 6693.2; 07-SEP-2007 17:43:14; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28866
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 7; 3433.3; 07-SEP-2007 18:29:30; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28867
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 16; 6612.4; 07-SEP-2007 19:22:29; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28867
 17; 6693.7; 07-SEP-2007 19:23:50; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;28867

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 3; 1896.5; 07-SEP-2007 19:44:29; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;28868

4; 2075.1; 07-SEP-2007 19:47:28; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;28868
5; 2464.6; 07-SEP-2007 19:53:57; Bright; 37.5; 164; 44Eta Peg ; 2.95; 5400;occ; 75; 0;28868
6; 2970.2; 07-SEP-2007 20:02:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28868
7; 3433.3; 07-SEP-2007 20:10:06; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28868
8; 4465.0; 07-SEP-2007 20:27:18; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;28868
9; 4946.6; 07-SEP-2007 20:35:19; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;28868
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16; 2970.1; 08-SEP-2007 04:25:22; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28873
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11; 4578.2; 27-SEP-2007 23:21:35; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29156

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4; -223.0; 27-SEP-2007 23:42:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29156
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6; -18.2; 27-SEP-2007 23:45:34; Dark ; 37.5; 41; Eps Car ; 1.86; 4100;occ; 75; 0;29156
7; 712.5; 27-SEP-2007 23:57:45; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29157
8; 1412.5; 28-SEP-2007 00:09:25; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29157
9; 1932.6; 28-SEP-2007 00:18:05; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29157
10; 2423.0; 28-SEP-2007 00:26:15; Bright; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;29157
11; 2990.9; 28-SEP-2007 00:35:43; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;29157
12; 3429.4; 28-SEP-2007 00:43:02; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29157
13; 3537.9; 28-SEP-2007 00:44:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;29157
14; 3899.7; 28-SEP-2007 00:50:52; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29157
15; 3989.1; 28-SEP-2007 00:52:21; Bright; 32.0; 82; 48Bet UMA ; 2.37; 10600;occ; 64; 0;29157
16; 4179.8; 28-SEP-2007 00:55:32; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29157
17; 4578.5; 28-SEP-2007 01:02:11; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;29157

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