

# GOMOS Daily Report 02-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	03SEP2007 07:40:04
Data source version	GOMOS/5.00
Start time of products	02-09-2007 (02SEP2007 00:00:00)
Stop time of products	03-09-2007 (03SEP2007 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)

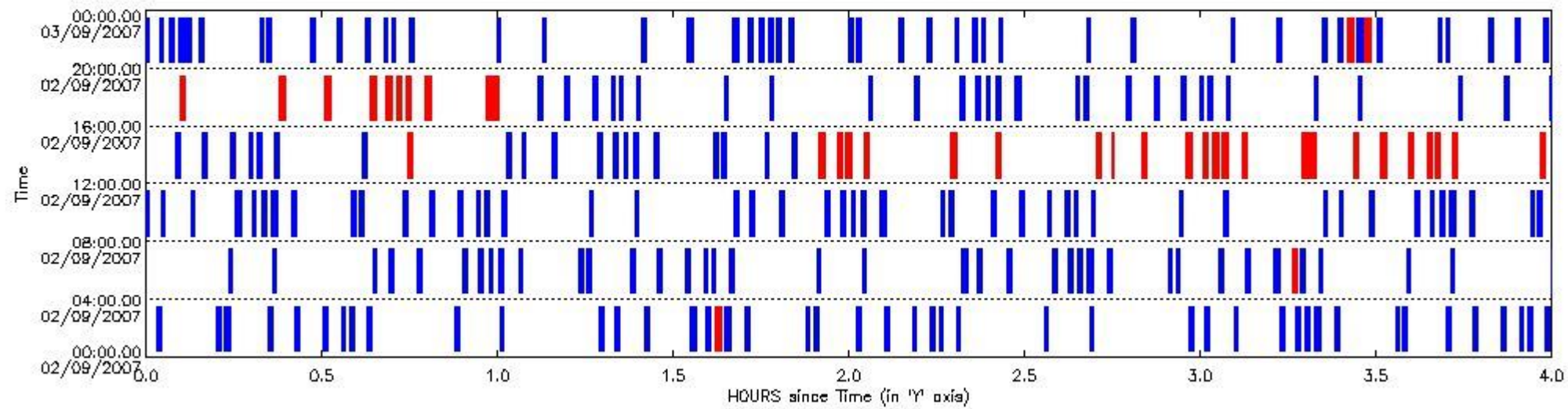
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
02-SEP-2007 01:37:11	1ZetCMa	177	28785
02-SEP-2007 07:15:37	22BetAqr	154	28789
02-SEP-2007 12:44:31	1AlpUMi	49	28792
02-SEP-2007 13:54:54	49DelCap	142	28793
02-SEP-2007 13:58:01	22BetAqr	154	28793
02-SEP-2007 13:59:27	34AlpAqr	162	28793
02-SEP-2007 14:02:27	8EpsPeg	61	28793
02-SEP-2007 14:17:26	5AlpCep	89	28793
02-SEP-2007 14:25:06	1AlpUMi	49	28793
02-SEP-2007 14:42:07	66AlpGem	24	28793
02-SEP-2007 14:44:48	27EpsGem	170	28793
02-SEP-2007 14:49:52	10AlpCMi	8	28793
02-SEP-2007 14:57:36	9AlpCMa	1	28793
02-SEP-2007 15:00:20	21EpsCMa	23	28793
02-SEP-2007 15:02:04	1ZetCMa	177	28793

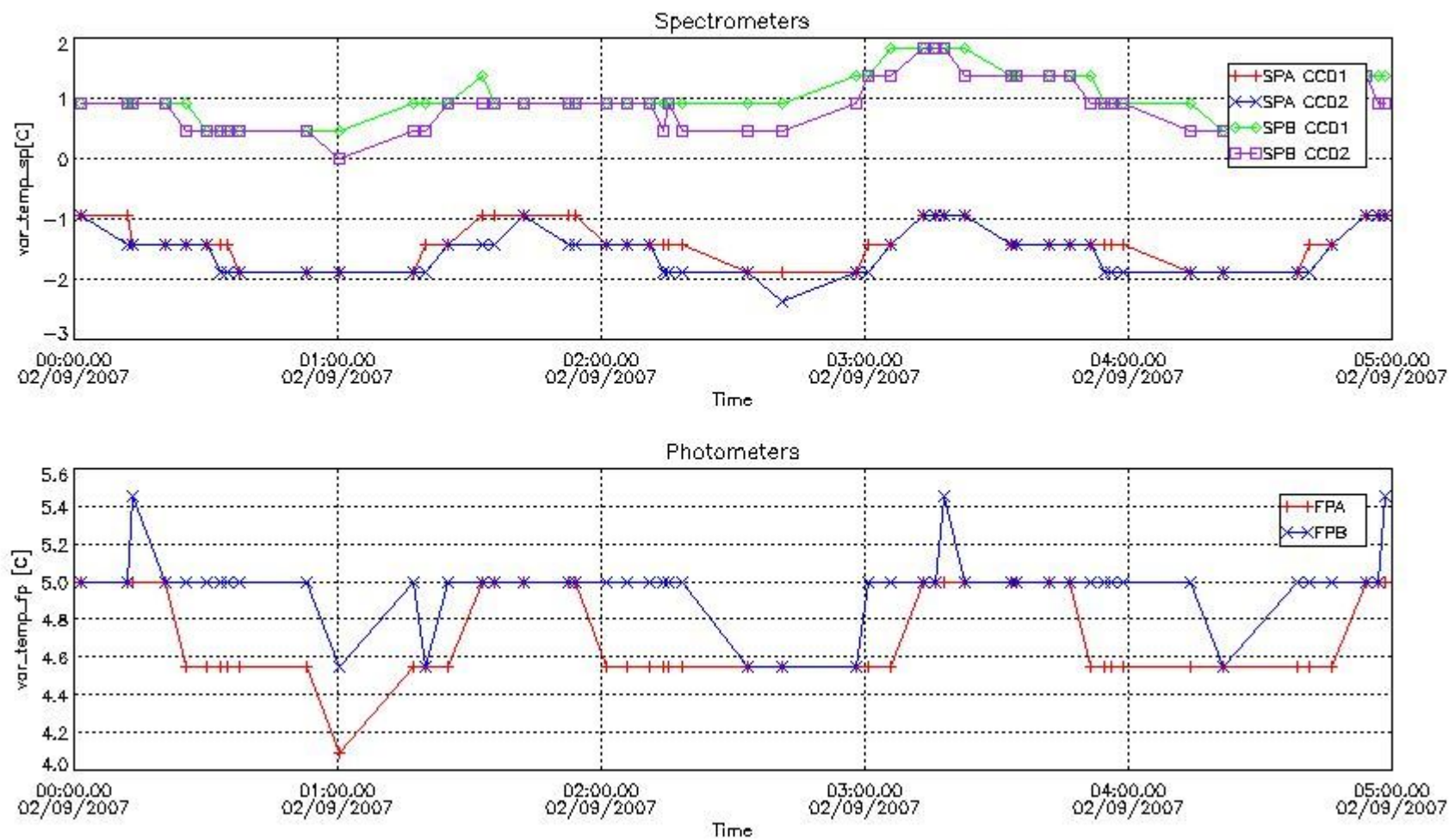
02-SEP-2007 15:03:39	DSA1059	0	28793
02-SEP-2007 15:07:04	AlpCar	2	28793
02-SEP-2007 15:17:24	AlpHyi	143	28794
02-SEP-2007 15:18:42	AlpEri	9	28794
02-SEP-2007 15:26:04	BetGru	63	28794
02-SEP-2007 15:30:42	24AlpPsA	18	28794
02-SEP-2007 15:35:30	49DelCap	142	28794
02-SEP-2007 15:38:37	22BetAqr	154	28794
02-SEP-2007 15:40:03	34AlpAqr	162	28794
02-SEP-2007 15:43:03	8EpsPeg	61	28794
02-SEP-2007 15:58:02	5AlpCep	89	28794
02-SEP-2007 16:05:42	1AlpUMi	49	28794
02-SEP-2007 16:22:43	66AlpGem	24	28794
02-SEP-2007 16:30:28	10AlpCMi	8	28794
02-SEP-2007 16:38:13	9AlpCMa	1	28794
02-SEP-2007 16:40:57	21EpsCMa	23	28794
02-SEP-2007 16:42:41	1ZetCMa	177	28794
02-SEP-2007 16:44:15	DSA1059	0	28794
02-SEP-2007 16:47:40	AlpCar	2	28794
02-SEP-2007 16:58:01	AlpHyi	143	28795
02-SEP-2007 16:59:19	AlpEri	9	28795
02-SEP-2007 23:25:07	1ZetCMa	177	28798
02-SEP-2007 23:28:04	AlpCol	108	28798

#### 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_1PNPDE20070902_000143_000000472061_00173_28784_1244.N1	02-SEP-2007 00:01:43	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	28784	No
2	GOM_TRA_1PNPDE20070902_001203_000000402061_00174_28785_1245.N1	02-SEP-2007 00:12:03	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28785	No
3	GOM_TRA_1PNPDE20070902_001320_000000542061_00174_28785_1246.N1	02-SEP-2007 00:13:20	Dark	54.000	9	Alp Eri	0.45300	24000.	108	28785	No
4	GOM_TRA_1PNPDE20070902_002044_000000462061_00174_28785_1247.N1	02-SEP-2007 00:20:44	Straylight	45.500	63	Bet Gru	2.1500	2800.0	91	28785	No
5	GOM_TRA_1PNPDE20070902_002523_000000462061_00174_28785_1248.N1	02-SEP-2007 00:25:23	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	28785	No
6	GOM_TRA_1PNPDE20070902_003012_000000442061_00174_28785_1249.N1	02-SEP-2007 00:30:12	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	28785	No
7	GOM_TRA_1PNPDE20070902_003319_000000382061_00174_28785_1250.N1	02-SEP-2007 00:33:19	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28785	No
8	GOM_TRA_1PNPDE20070902_003446_000000402061_00174_28785_1251.N1	02-SEP-2007 00:34:46	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	28785	No
9	GOM_TRA_1PNPDE20070902_003746_000000382061_00174_28785_1252.N1	02-SEP-2007 00:37:46	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	28785	No
10	GOM_TRA_1PNPDE20070902_005246_000000362061_00174_28785_1253.N1	02-SEP-2007 00:52:46	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28785	No
11	GOM_TRA_1PNPDE20070902_010026_000000362061_00174_28785_1254.N1	02-SEP-2007 01:00:26	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28785	No
12	GOM_TRA_1PNPDE20070902_011725_000000362061_00174_28785_1255.N1	02-SEP-2007 01:17:25	Bright	36.000	24	66Alp Gem	1.5800	10200.	72	28785	No
13	GOM_TRA_1PNPDE20070902_012005_000000492061_00174_28785_1256.N1	02-SEP-2007 01:20:05	Bright	48.500	170	27Eps Gem	3.0000	9700.0	97	28785	No
14	GOM_TRA_1PNPDE20070902_012508_000000442061_00174_28785_1257.N1	02-SEP-2007 01:25:08	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	28785	No
15	GOM_TRA_1PNPDE20070902_013250_000000592061_00174_28785_1369.N1	02-SEP-2007 01:32:50	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	28785	No
16	GOM_TRA_1PNPDE20070902_013535_000000442061_00174_28785_1370.N1	02-SEP-2007 01:35:35	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	28785	No
17	GOM_TRA_1PNPDE20070902_014219_000000452061_00174_28785_1371.N1	02-SEP-2007 01:42:19	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	28785	No
18	GOM_TRA_1PNPDE20070902_015239_000000402061_00175_28786_1372.N1	02-SEP-2007 01:52:39	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28786	No
19	GOM_TRA_1PNPDE20070902_015357_000000562061_00175_28786_1373.N1	02-SEP-2007 01:53:57	Dark	56.000	9	Alp Eri	0.45300	24000.	112	28786	No
20	GOM_TRA_1PNPDE20070902_020121_000000432061_00175_28786_1374.N1	02-SEP-2007 02:01:21	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	28786	No
21	GOM_TRA_1PNPDE20070902_020559_000000542061_00175_28786_1375.N1	02-SEP-2007 02:05:59	Straylight	54.000	18	24Alp PsA	1.1660	9700.0	108	28786	No
22	GOM_TRA_1PNPDE20070902_021048_000000432061_00175_28786_1376.N1	02-SEP-2007 02:10:48	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	28786	No
23	GOM_TRA_1PNPDE20070902_021355_000000382061_00175_28786_1377.N1	02-SEP-2007 02:13:55	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	28786	No
24	GOM_TRA_1PNPDE20070902_021522_000000402061_00175_28786_1378.N1	02-SEP-2007 02:15:22	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	28786	No
25	GOM_TRA_1PNPDE20070902_021822_000000382061_00175_28786_1379.N1	02-SEP-2007 02:18:22	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28786	No
26	GOM_TRA_1PNPDE20070902_023322_000000342061_00175_28786_1380.N1	02-SEP-2007 02:33:22	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	28786	No
27	GOM_TRA_1PNPDE20070902_024102_000000342061_00175_28786_1381.N1	02-SEP-2007 02:41:02	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28786	No
28	GOM_TRA_1PNPDE20070902_025801_000000552061_00175_28786_1516.N1	02-SEP-2007 02:58:01	Bright	55.000	24	66Alp Gem	1.5800	10200.	110	28786	No
29	GOM_TRA_1PNPDE20070902_030041_000000482061_00175_28786_1517.N1	02-SEP-2007 03:00:41	Bright	48.000	170	27Eps Gem	3.0000	9700.0	96	28786	No
30	GOM_TRA_1PNPDE20070902_030545_000000422061_00175_28786_1518.N1	02-SEP-2007 03:05:45	Twilight	41.500	8	10Alp CMi	0.40000	6500.0	83	28786	No
31	GOM_TRA_1PNPDE20070902_031327_000000502061_00175_28786_1519.N1	02-SEP-2007 03:13:27	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	28786	No

32	GOM_TRA_1PNPDE20070902_031612_000000452061_00175_28786_1520.N1	02-SEP-2007 03:16:12	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	28786	No
33	GOM_TRA_1PNPDE20070902_031754_000000422061_00175_28786_1521.N1	02-SEP-2007 03:17:54	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	28786	No
34	GOM_TRA_1PNPDE20070902_032256_000000512061_00175_28786_1522.N1	02-SEP-2007 03:22:56	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	28786	No
35	GOM_TRA_1PNPDE20070902_033316_000000412061_00176_28787_1523.N1	02-SEP-2007 03:33:16	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28787	No
36	GOM_TRA_1PNPDE20070902_033433_000000462061_00176_28787_1524.N1	02-SEP-2007 03:34:33	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28787	No
37	GOM_TRA_1PNPDE20070902_034157_000000502061_00176_28787_1525.N1	02-SEP-2007 03:41:57	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	28787	No
38	GOM_TRA_1PNPDE20070902_034635_000000472061_00176_28787_1526.N1	02-SEP-2007 03:46:35	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	28787	No
39	GOM_TRA_1PNPDE20070902_035124_000000432061_00176_28787_1527.N1	02-SEP-2007 03:51:24	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	28787	No
40	GOM_TRA_1PNPDE20070902_035431_000000382061_00176_28787_1528.N1	02-SEP-2007 03:54:31	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	28787	No
41	GOM_TRA_1PNPDE20070902_035559_000000392061_00176_28787_1529.N1	02-SEP-2007 03:55:59	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	28787	No
42	GOM_TRA_1PNPDE20070902_035858_000000382061_00176_28787_1530.N1	02-SEP-2007 03:58:58	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28787	No
43	GOM_TRA_1PNPDE20070902_041358_000000352061_00176_28787_1531.N1	02-SEP-2007 04:13:58	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	28787	No
44	GOM_TRA_1PNPDE20070902_042138_000000332061_00176_28787_1532.N1	02-SEP-2007 04:21:38	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28787	No
45	GOM_TRA_1PNPDE20070902_043837_000000392061_00176_28787_1700.N1	02-SEP-2007 04:38:37	Bright	38.500	24	66Alp Gem	1.5800	10200.	77	28787	No
46	GOM_TRA_1PNPDE20070902_044118_000000502061_00176_28787_1701.N1	02-SEP-2007 04:41:18	Bright	49.500	170	27Eps Gem	3.0000	9700.0	99	28787	No
47	GOM_TRA_1PNPDE20070902_044621_000000422061_00176_28787_1702.N1	02-SEP-2007 04:46:21	Twilight	41.500	8	10Alp CMi	0.40000	6500.0	83	28787	No
48	GOM_TRA_1PNPDE20070902_045404_000000512061_00176_28787_1703.N1	02-SEP-2007 04:54:04	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	28787	No
49	GOM_TRA_1PNPDE20070902_045648_000000432061_00176_28787_1704.N1	02-SEP-2007 04:56:48	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	28787	No
50	GOM_TRA_1PNPDE20070902_045831_000000432061_00176_28787_1705.N1	02-SEP-2007 04:58:31	Dark	42.500	177	1Zet CMa	3.0220	26000.	85	28787	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

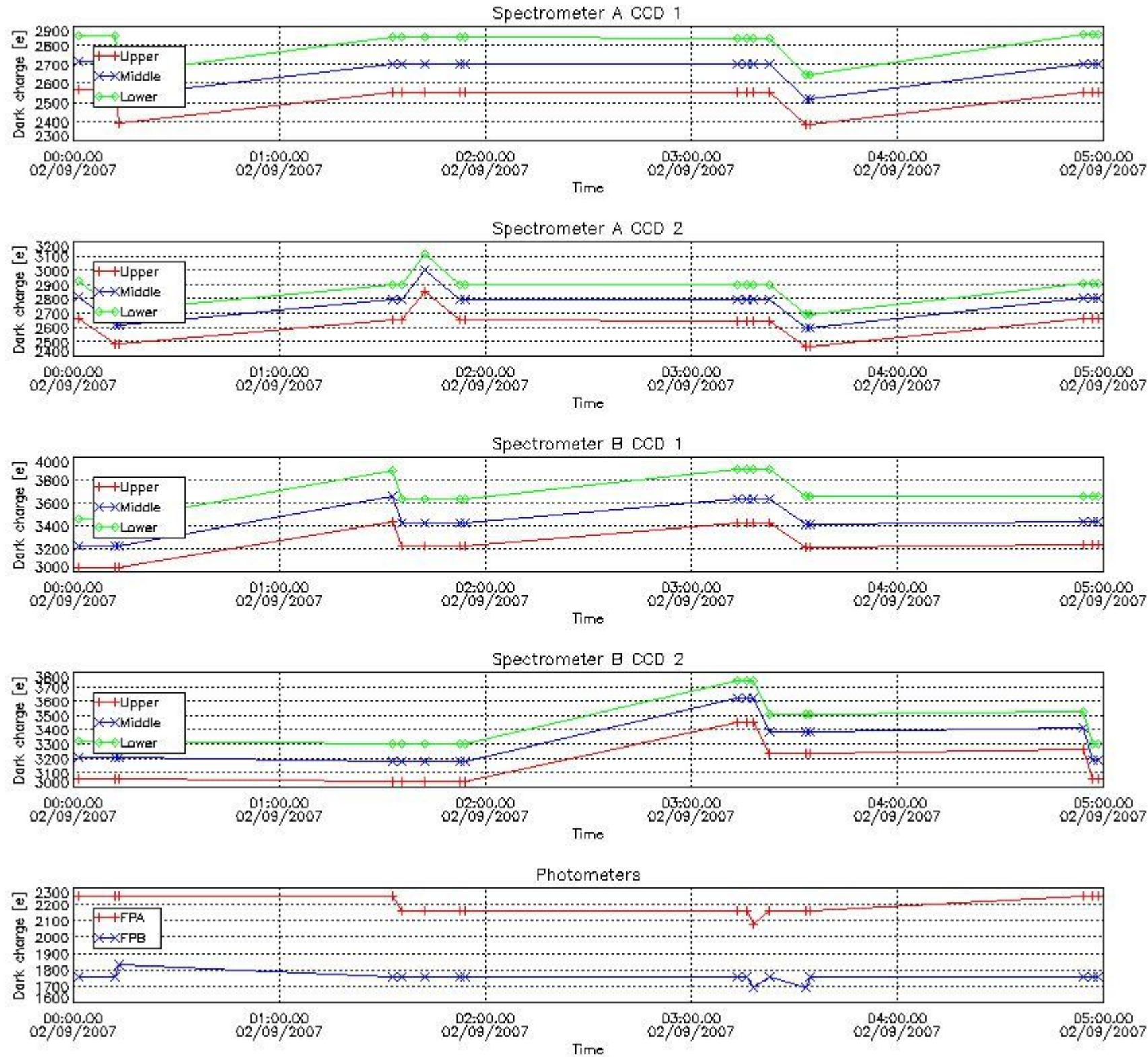


from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative 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



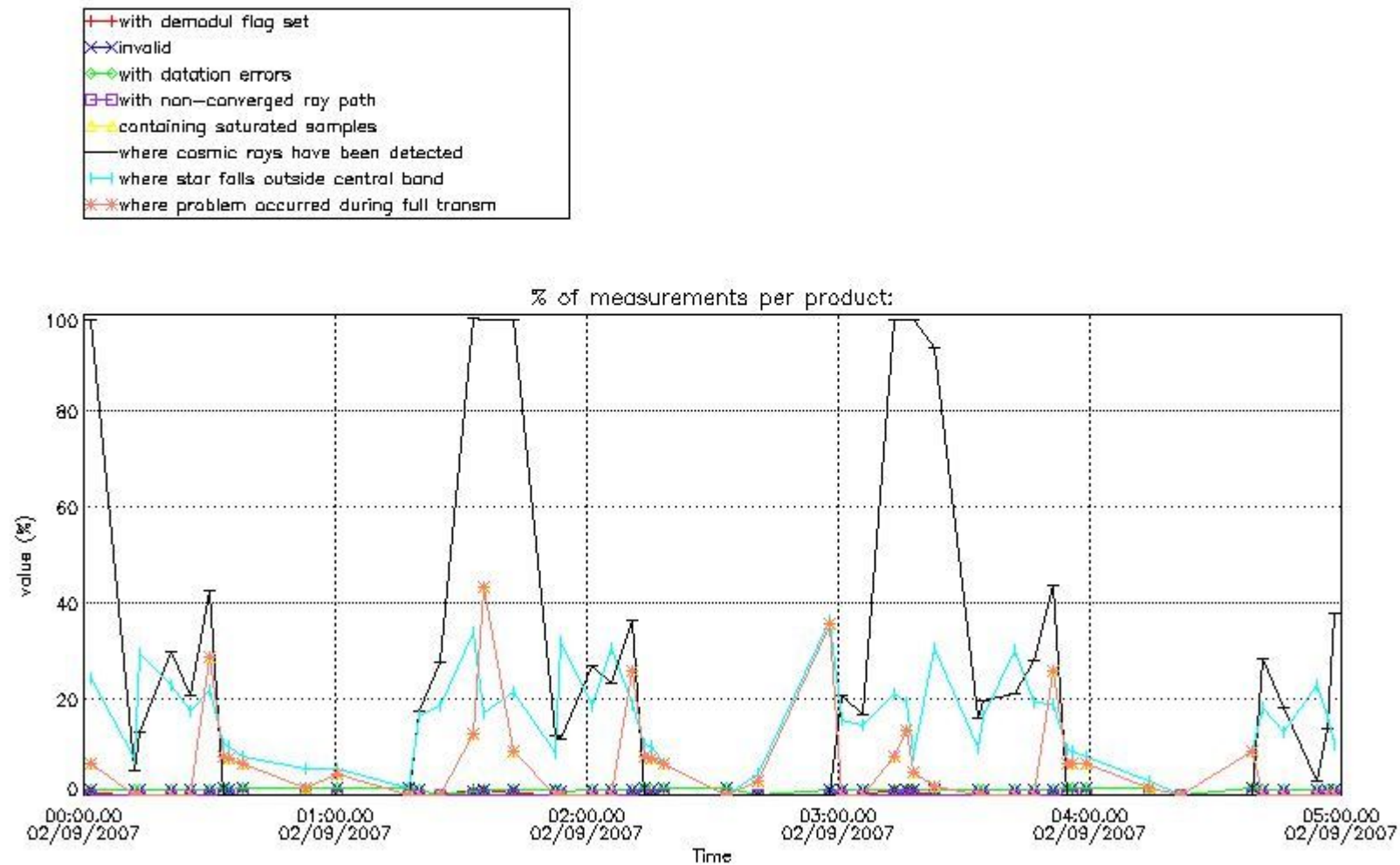
## 5. Demodulation flag and quality information monitoring

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:

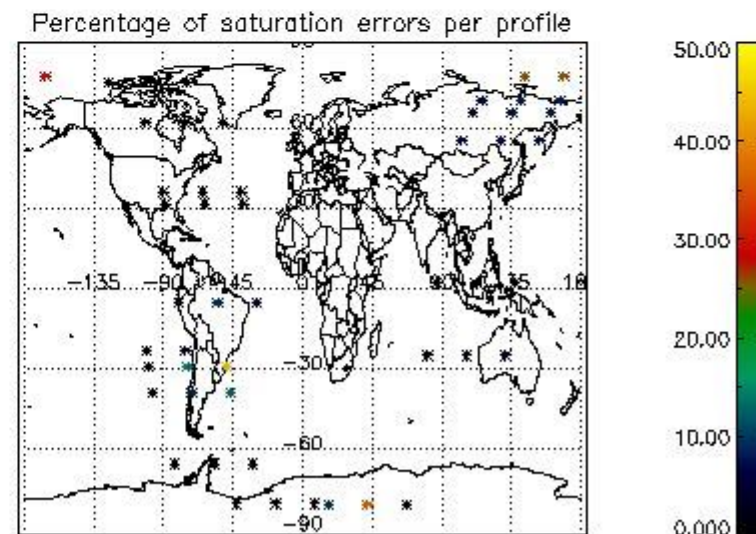
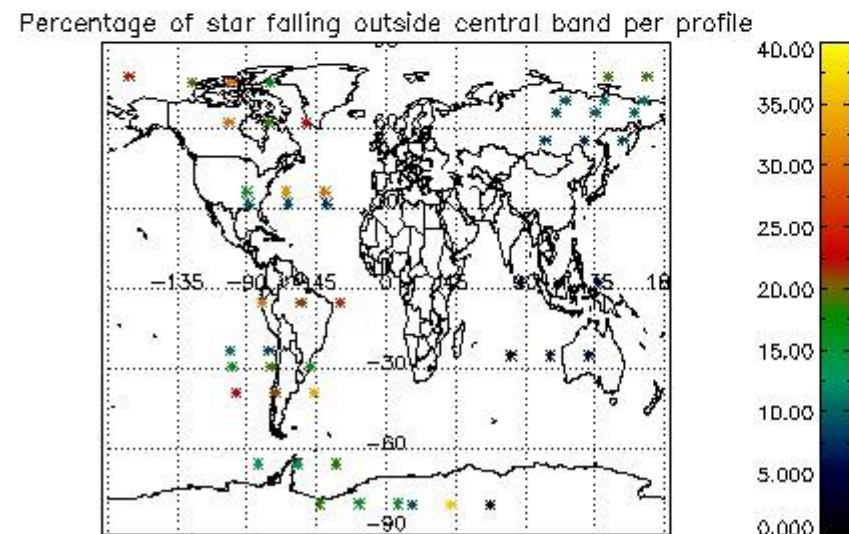
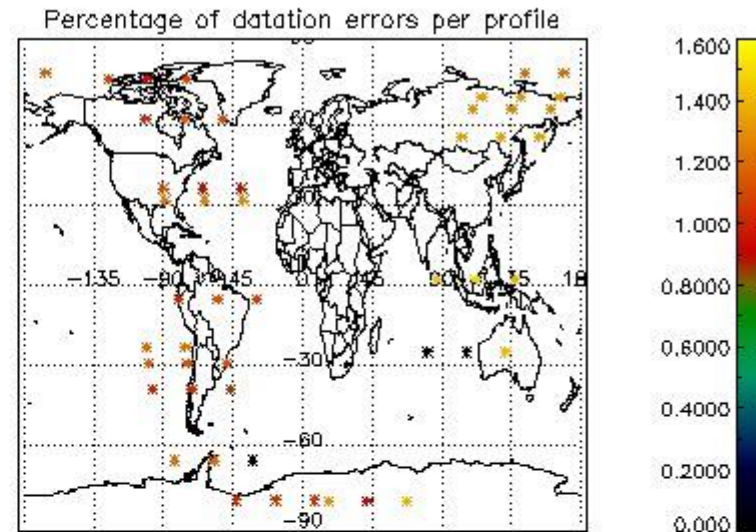
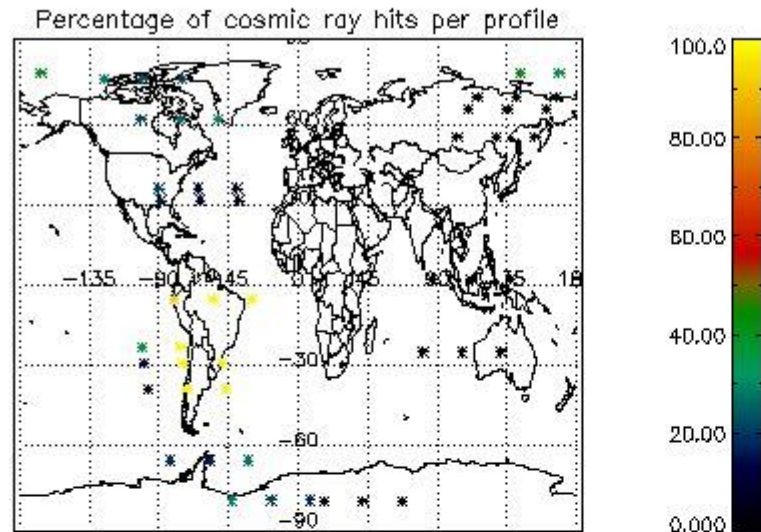
At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





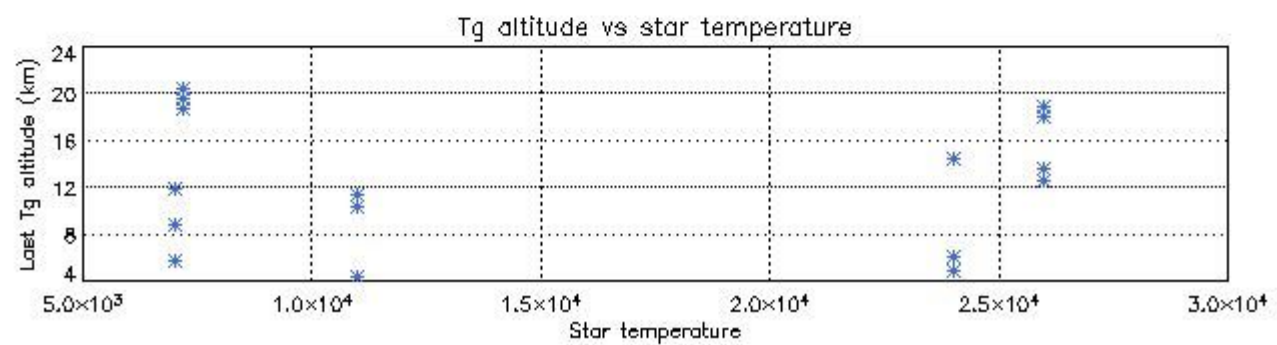
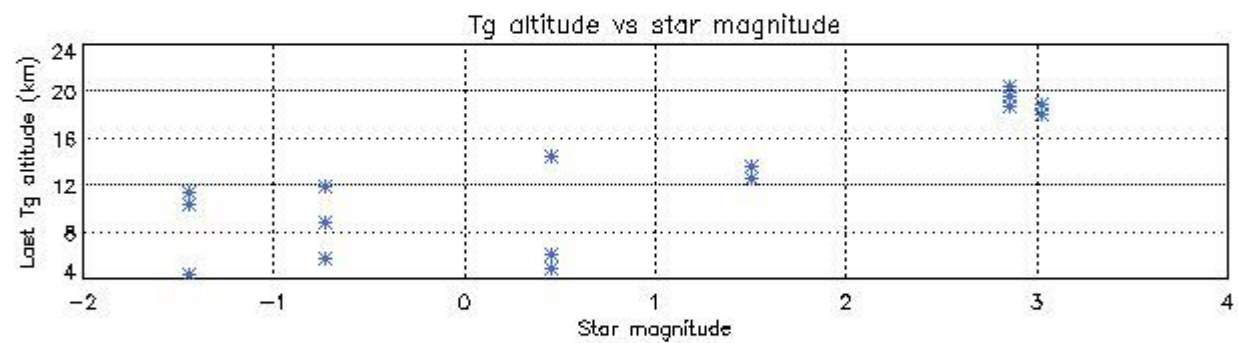
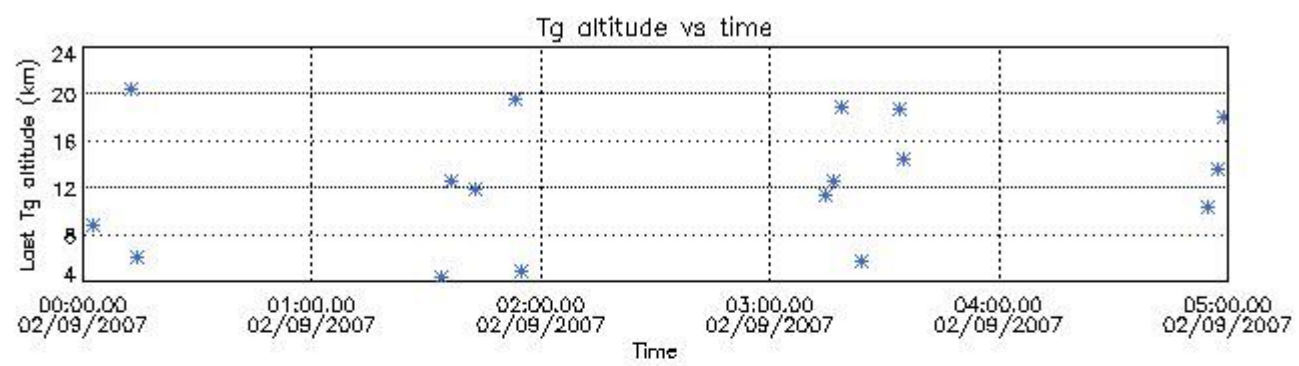
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.467	18.237	13.956
St. deviation:	5.3499	5.4470	1.0835
Maximum:	20.360	27.484	14.603
Minimum:	4.3841	4.6482	12.705
Number of data:	17.000	24.000	3.0000

### 6.2 Plot for DARK limb products

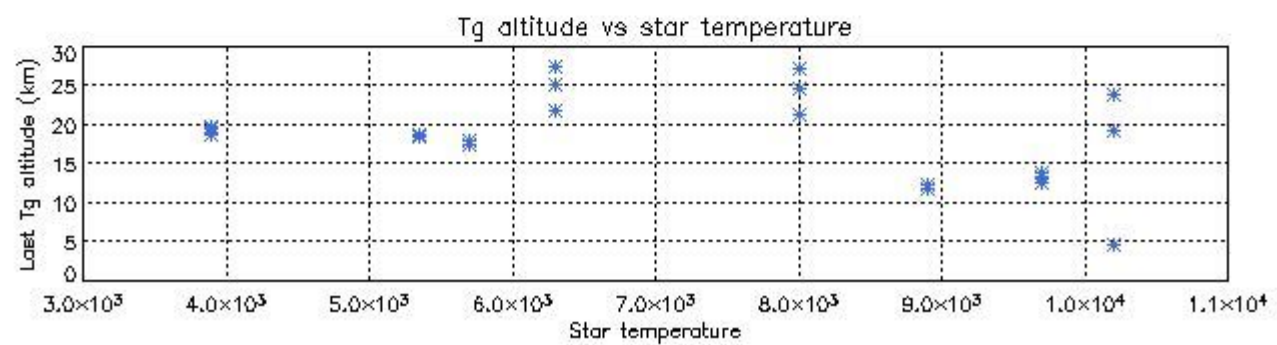
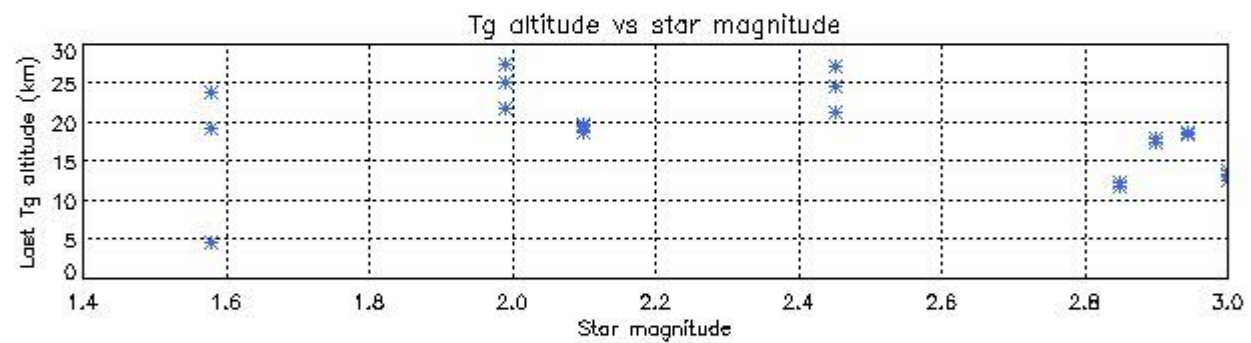
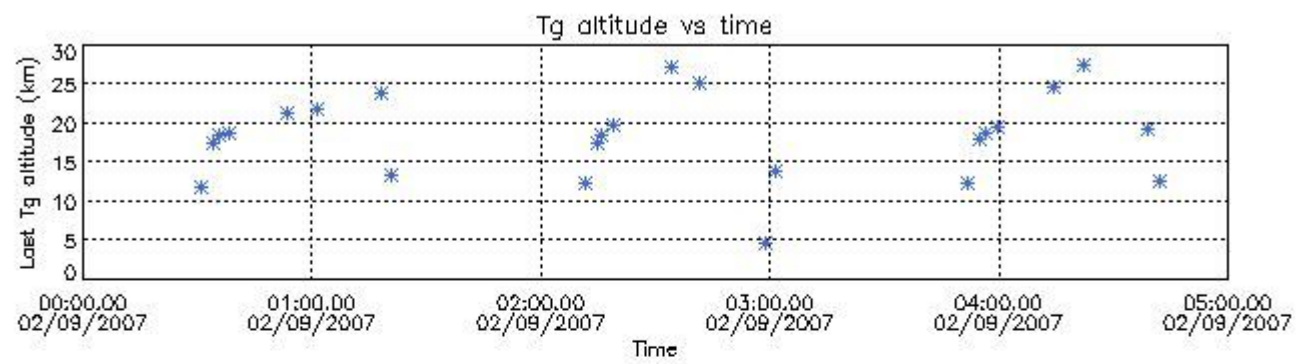
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

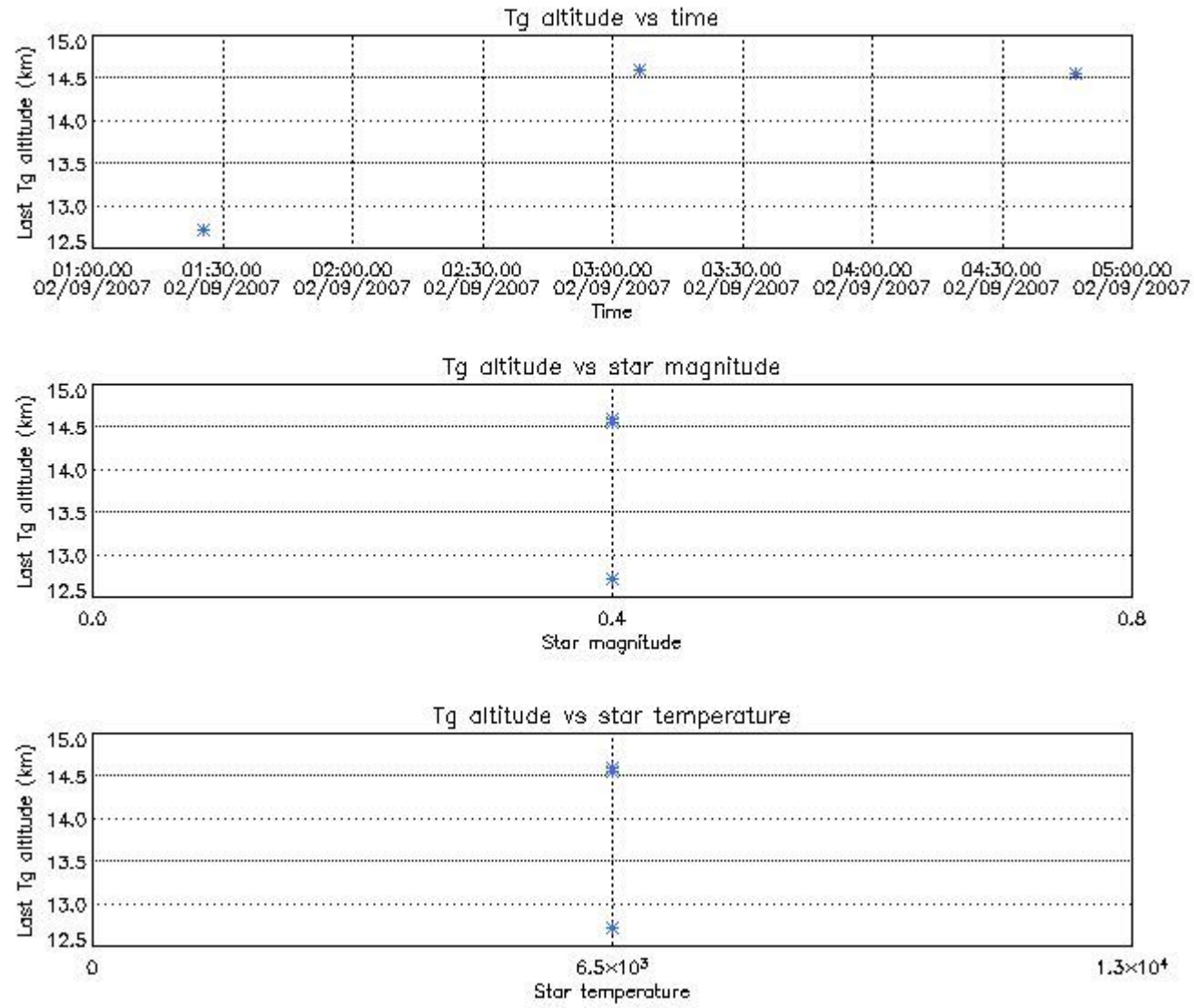


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

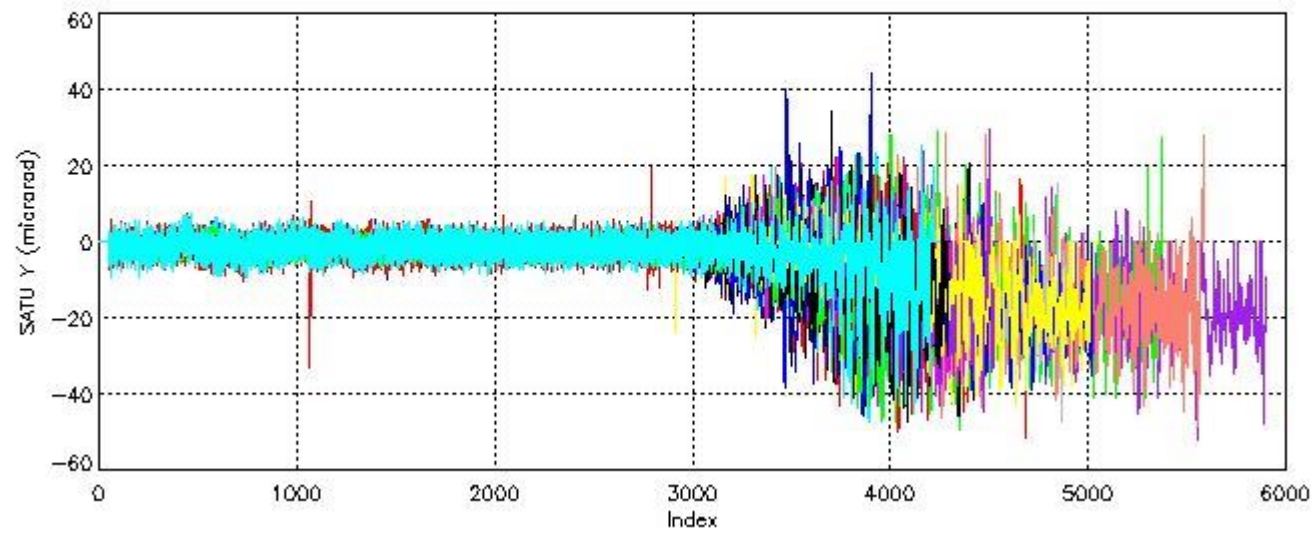
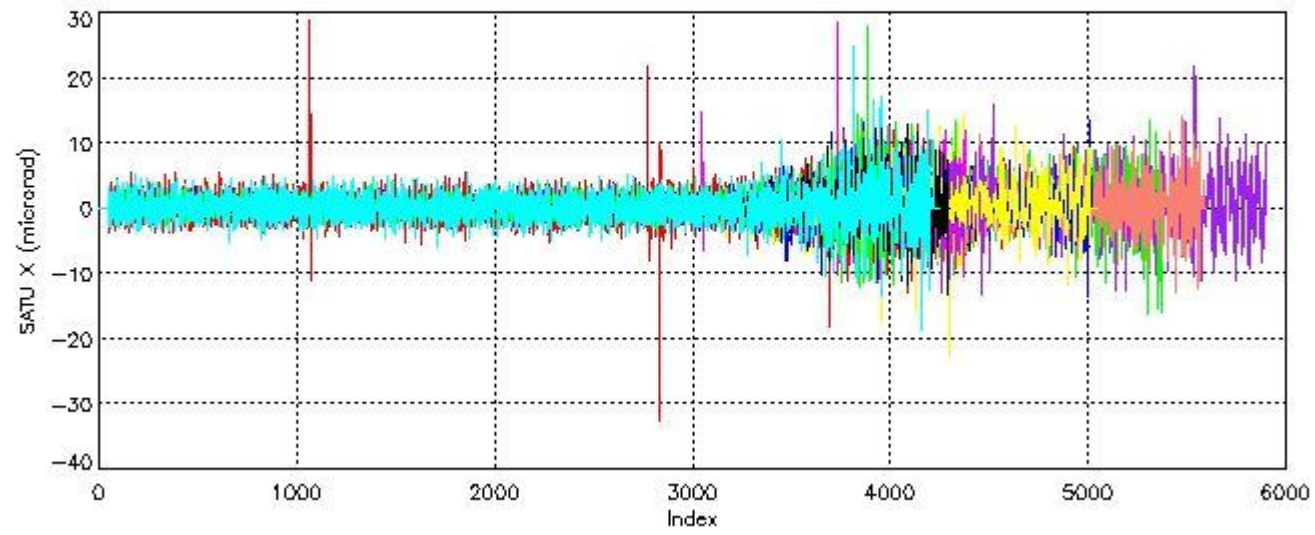


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.12976	-1.2587	0.16454	-1.3279
St. deviation:	0.55847	1.6750	0.70431	1.7273
Maximum:	5.5000	7.5000	3.7000	6.9000
Minimum:	-5.3000	-10.300	-3.3000	-8.2000



Number of data:	16300.	16300.	20500.	20500.
-----------------	--------	--------	--------	--------

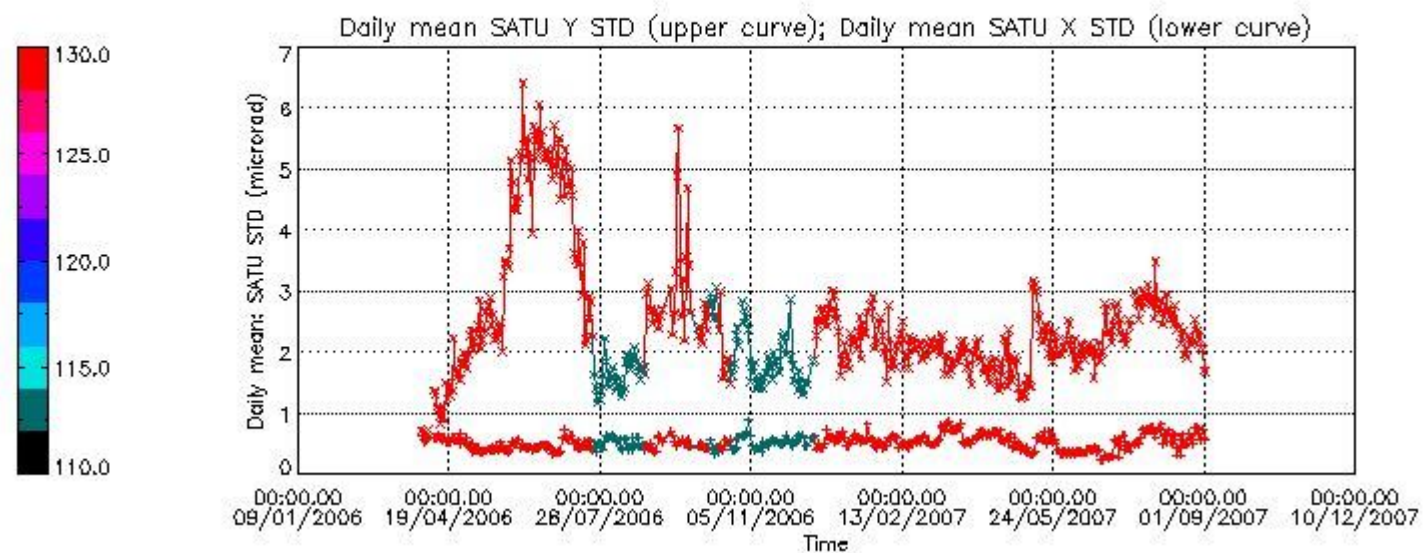
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

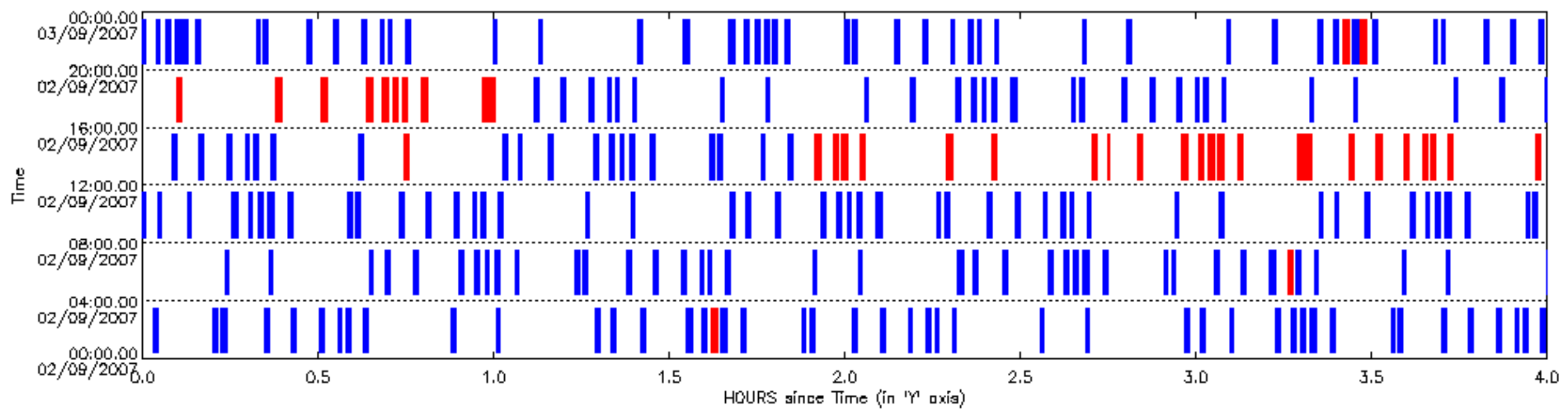
Lower curve: STD of SATU X axis

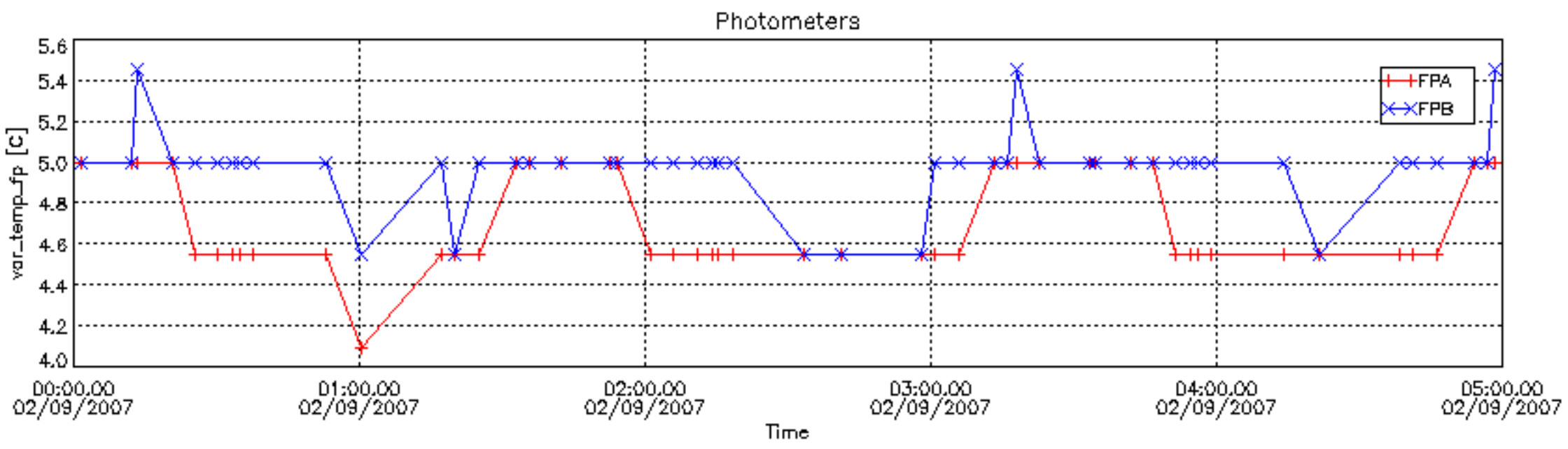
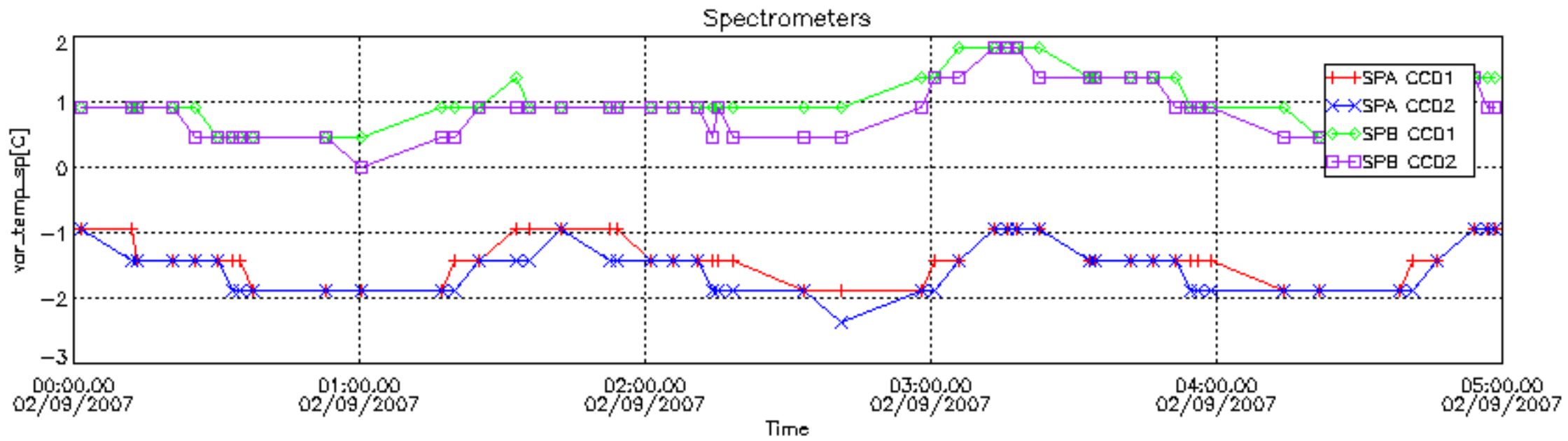


### 8. Auxiliary Data Files used for the production reported in section 2.4

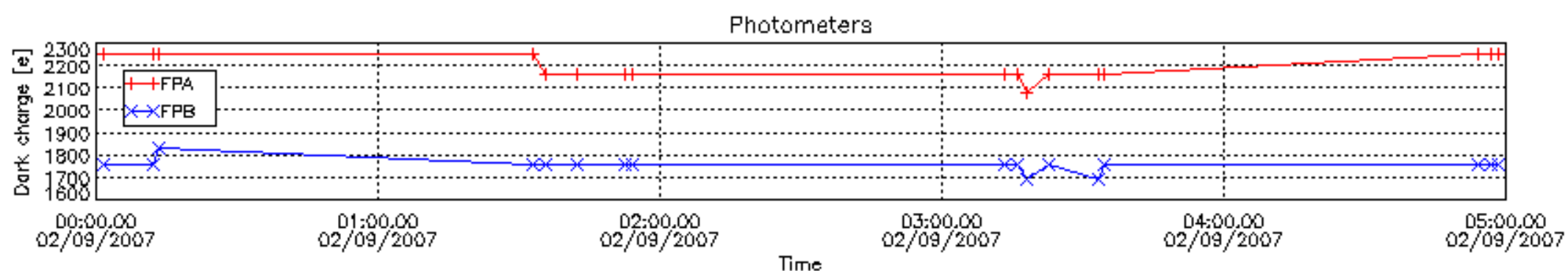
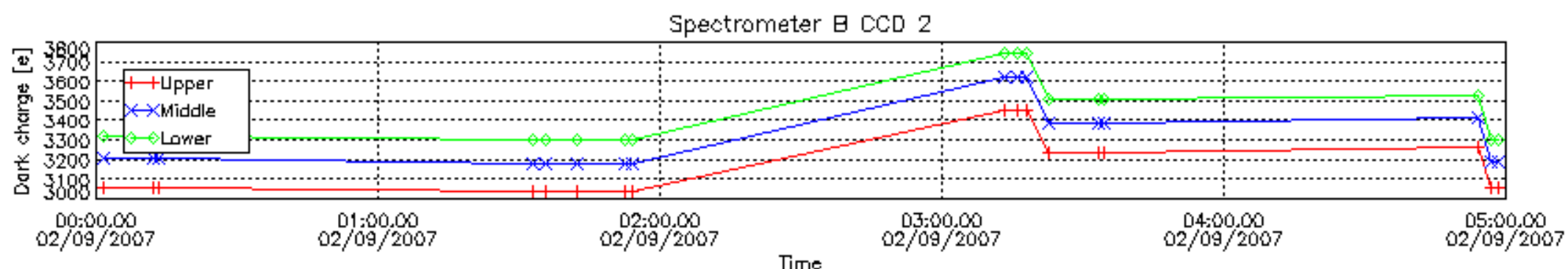
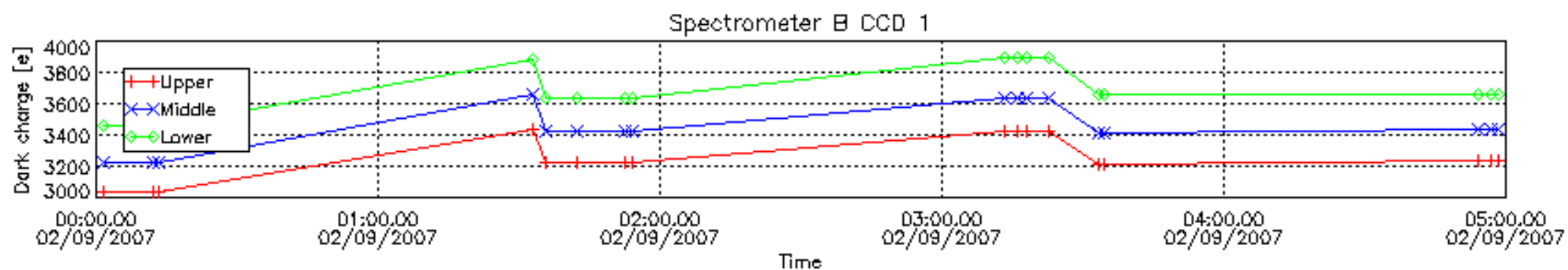
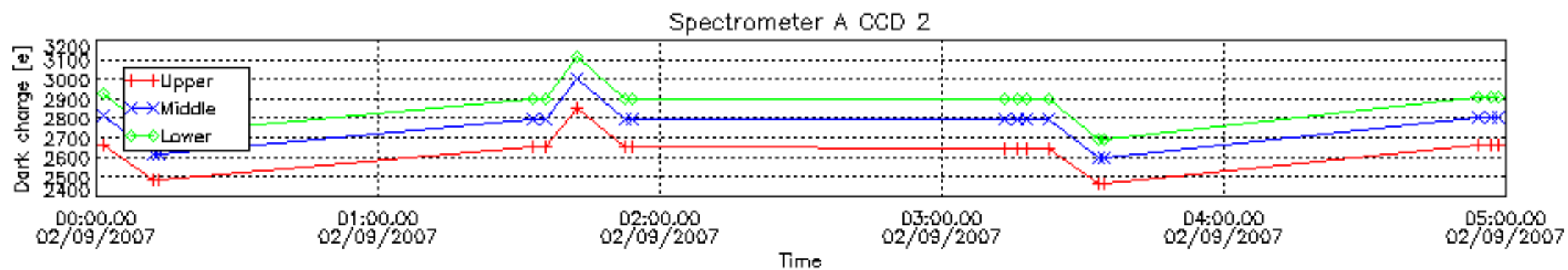
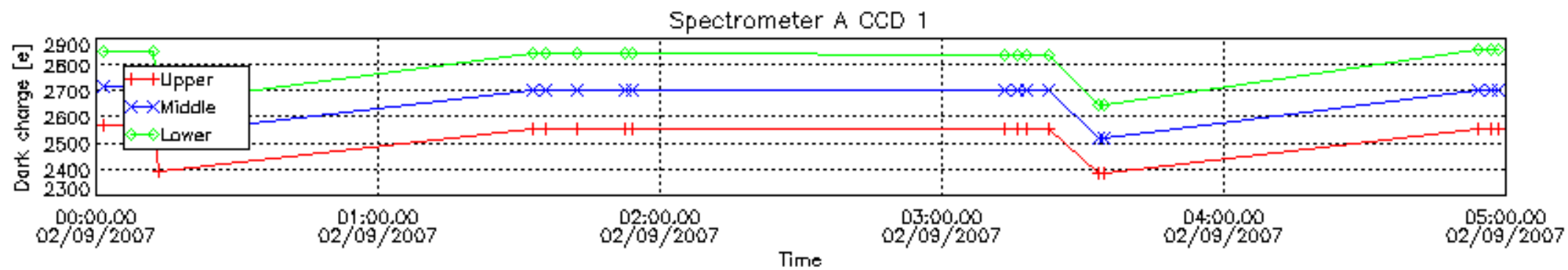
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

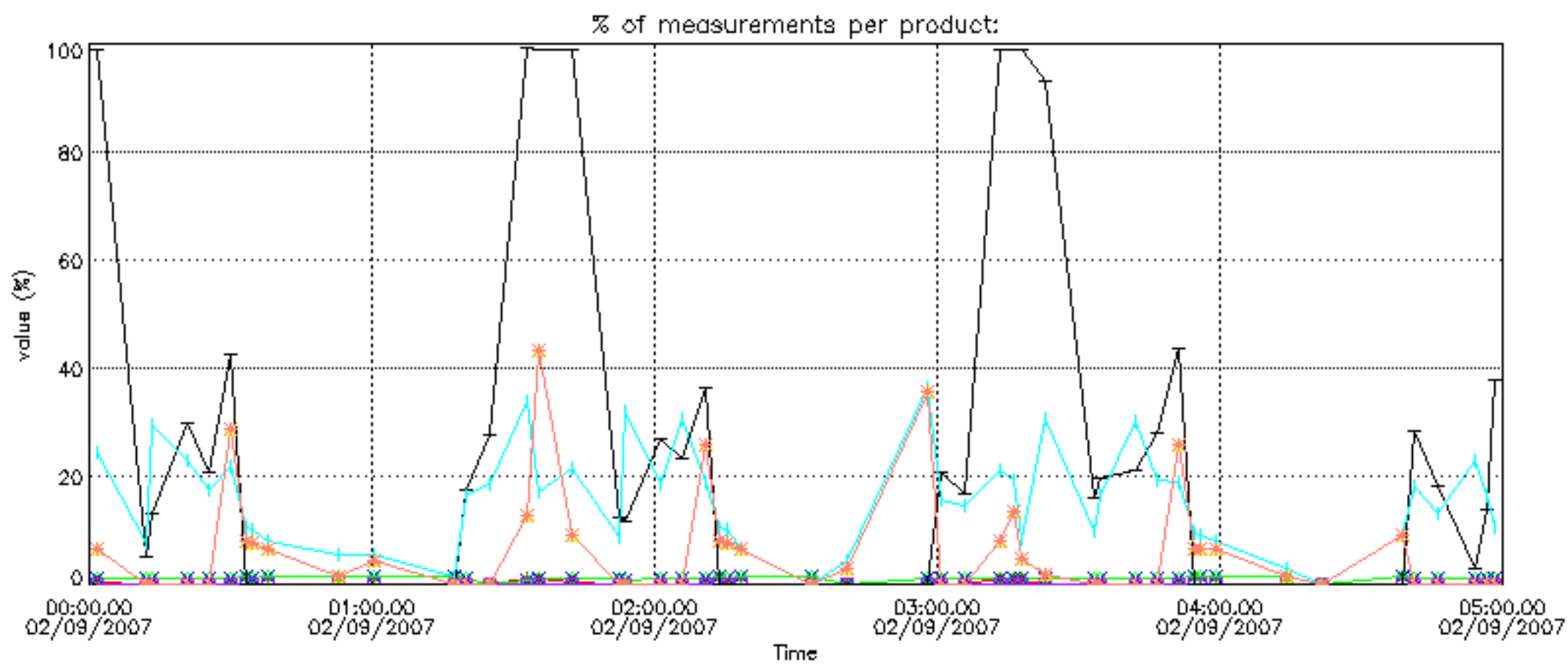
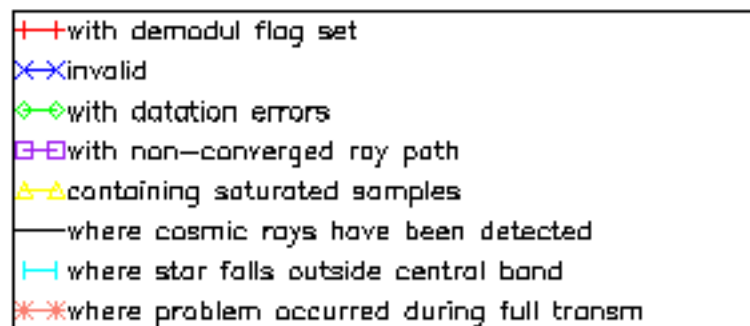
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-SEP-2007 00:01:43
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	02-SEP-2007 00:01:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-SEP-2007 00:01:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-SEP-2007 00:01:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-SEP-2007 00:01:43
ECMWF_FILE	AUX_ECF_AXNECM20070902_025116_20070901_210000_20070902_090000	1	02-SEP-2007 00:01:43
ECMWF_FILE	AUX_ECF_AXNECM20070902_025112_20070902_030000_20070902_150000	45	02-SEP-2007 04:38:37
OPTIONAL_ECMWF_FILE	MISSING	1	02-SEP-2007 00:01:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070901_220348_000060572061_00172_28783_4089.N1	1	02-SEP-2007 00:01:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070901_235003_000057382061_00173_28784_4090.N1	15	02-SEP-2007 01:32:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070902_013100_000038252061_00174_28785_4091.N1	28	02-SEP-2007 02:58:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070902_024005_000057382061_00175_28786_4092.N1	45	02-SEP-2007 04:38:37



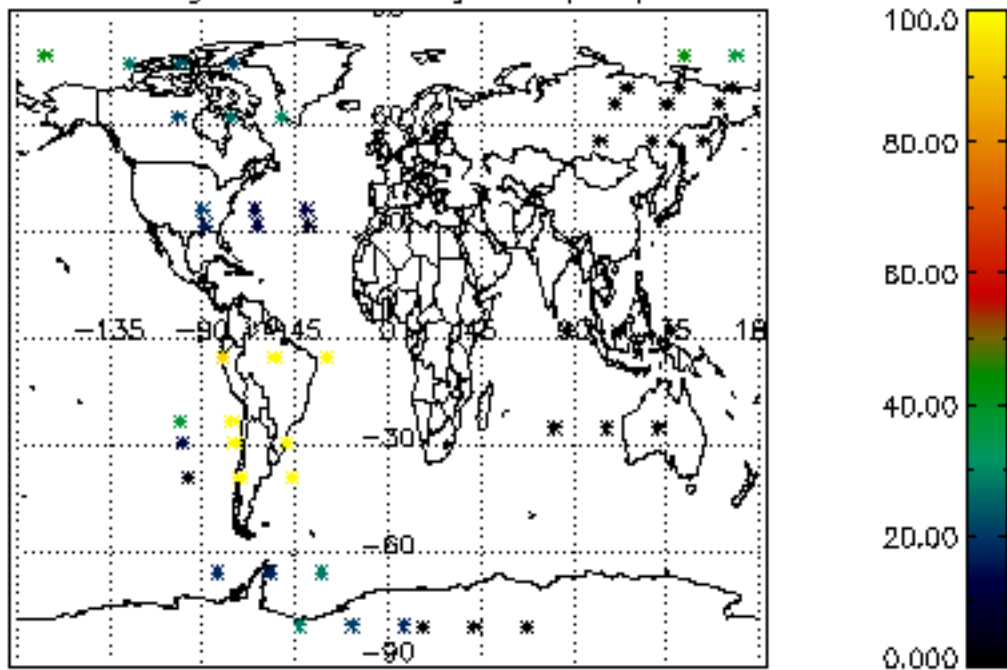




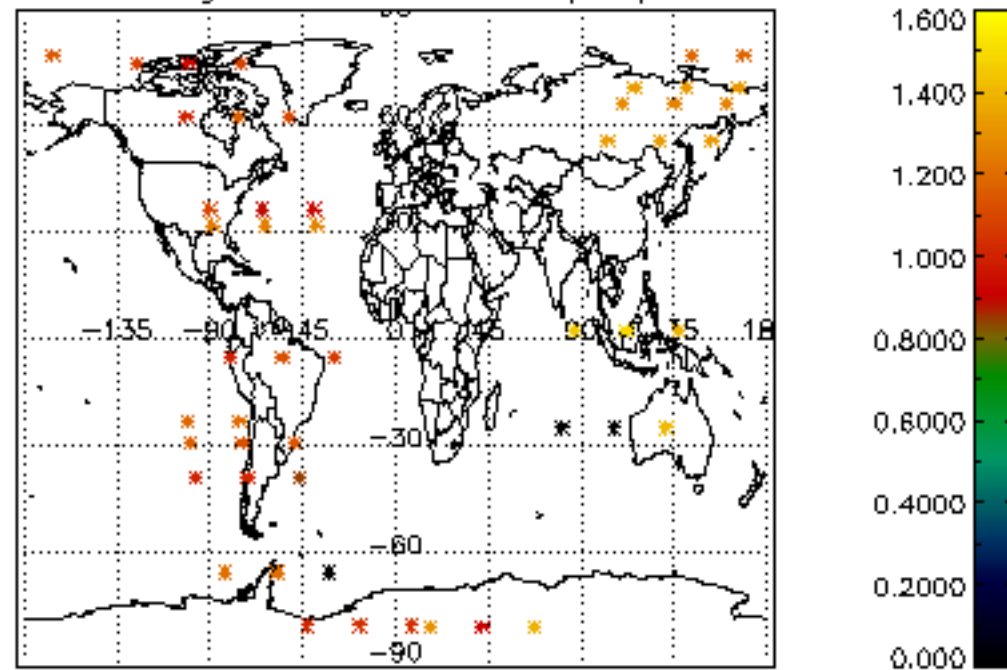




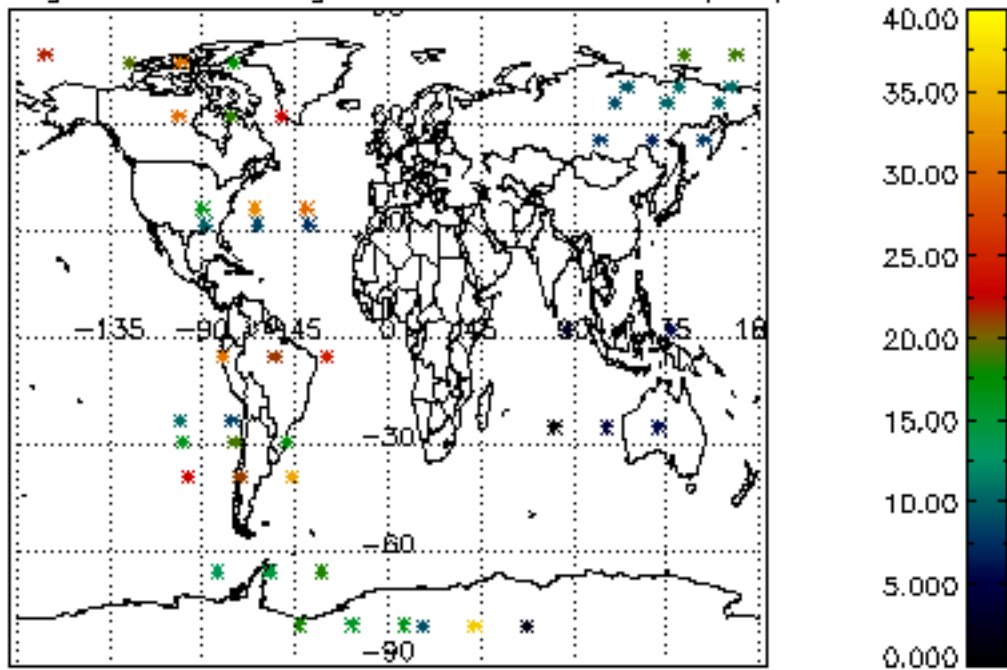
Percentage of cosmic ray hits per profile



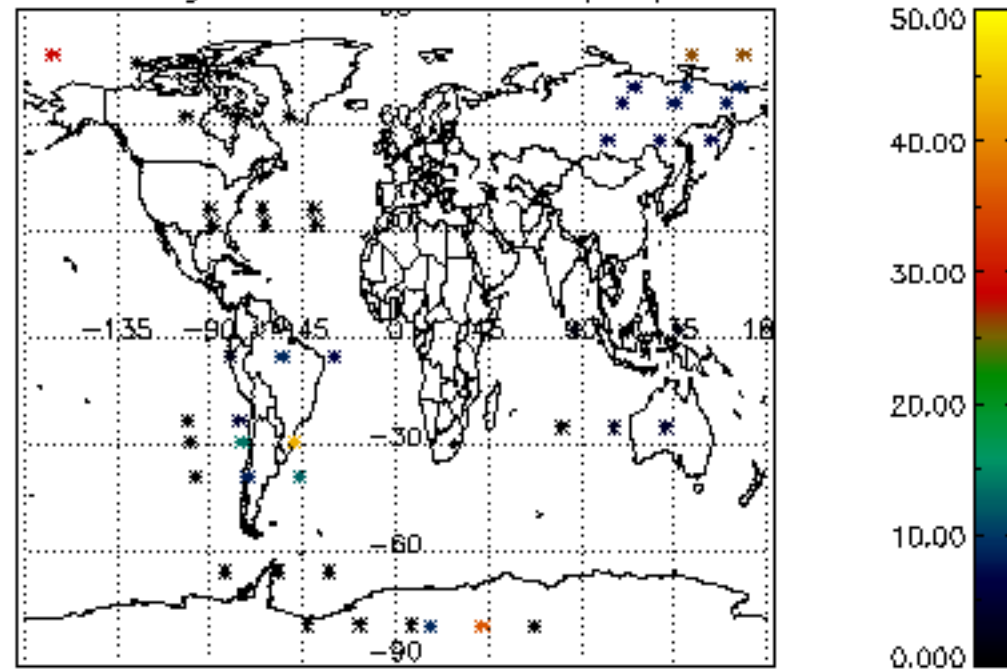
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

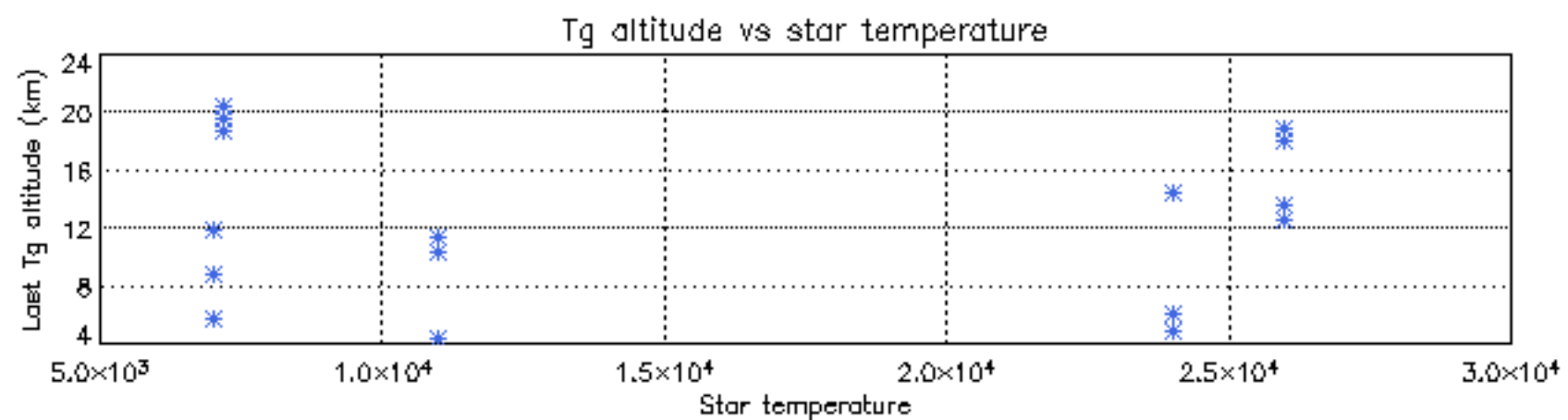
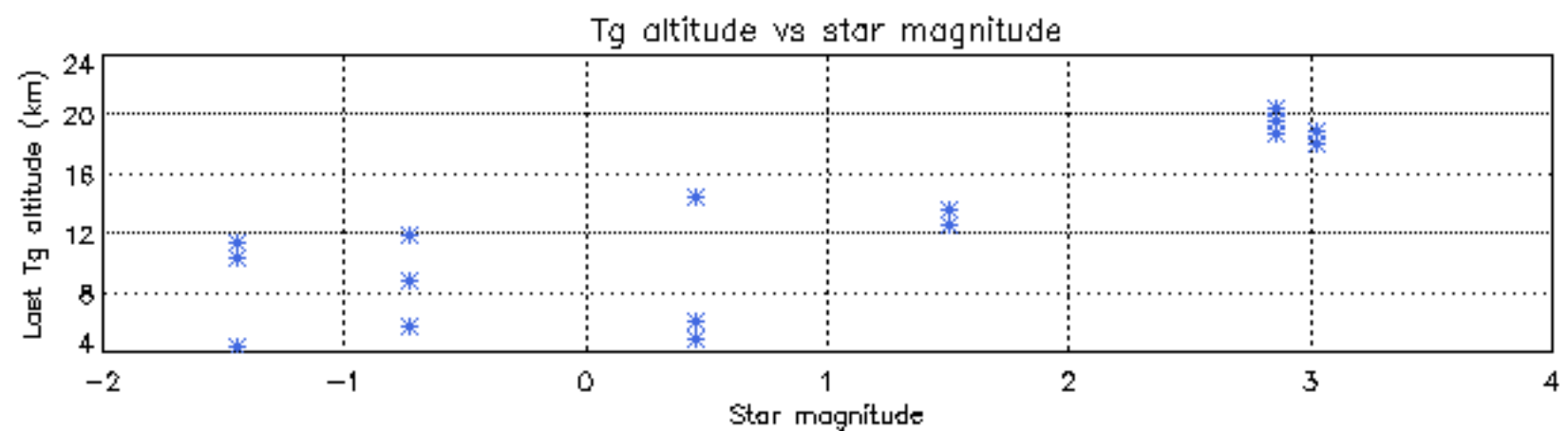
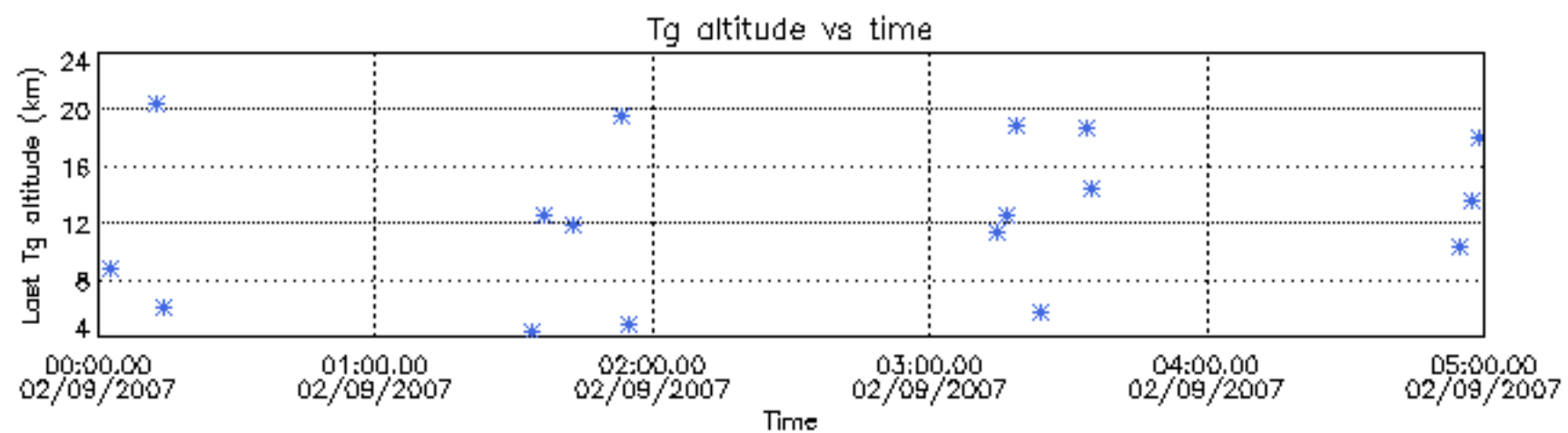


Percentage of saturation errors per profile

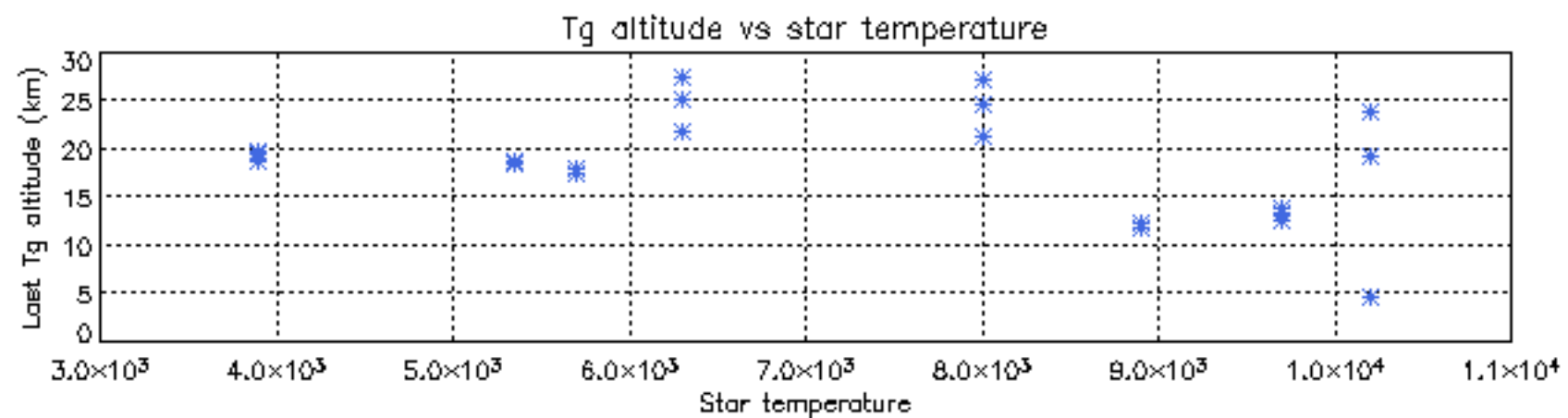
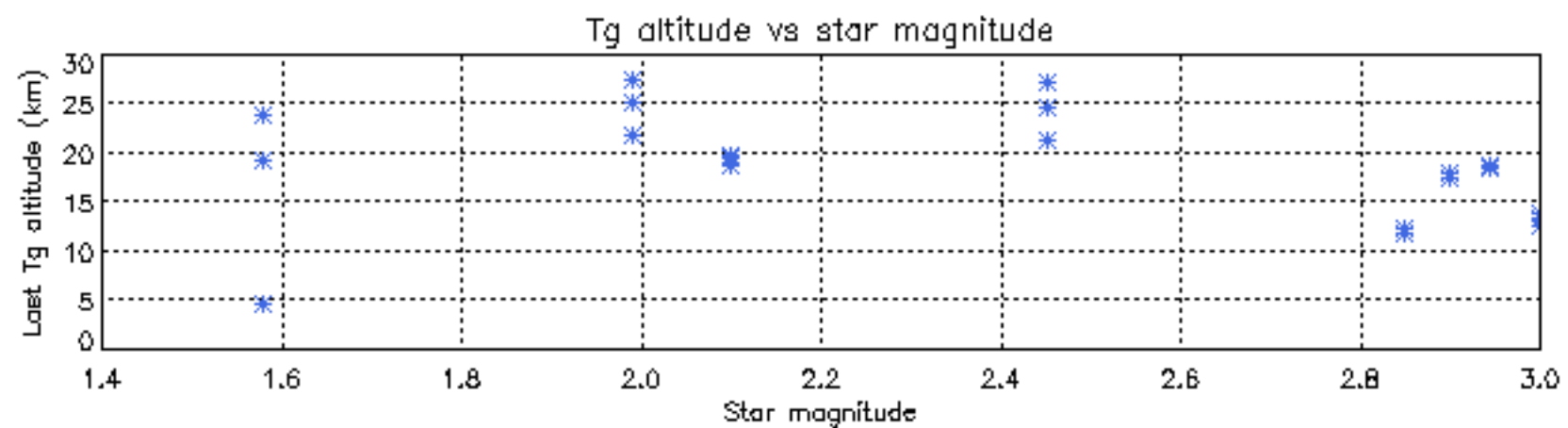
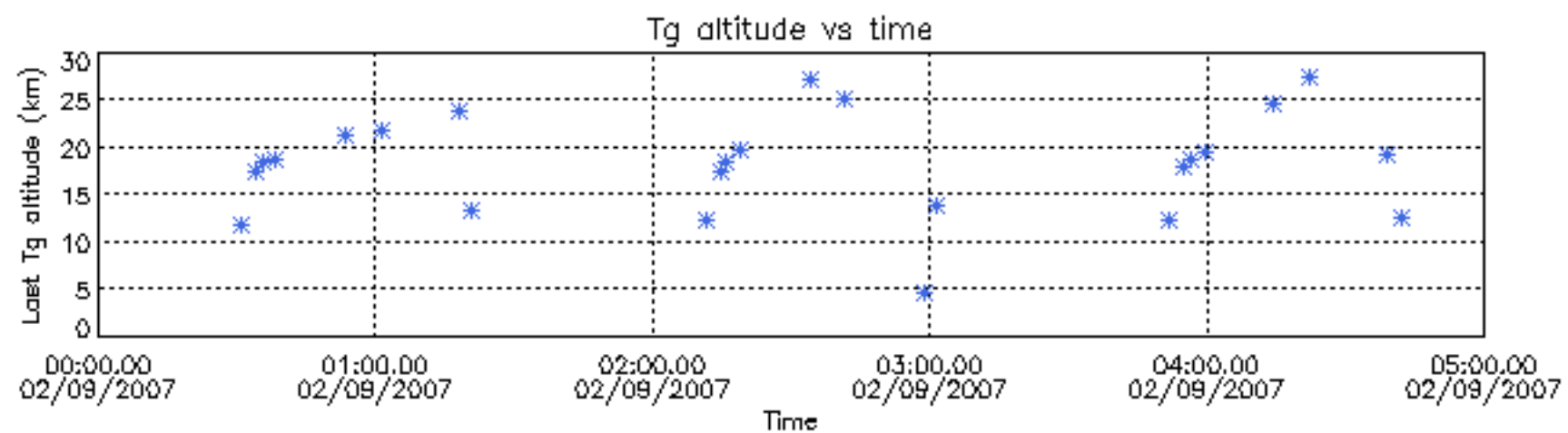




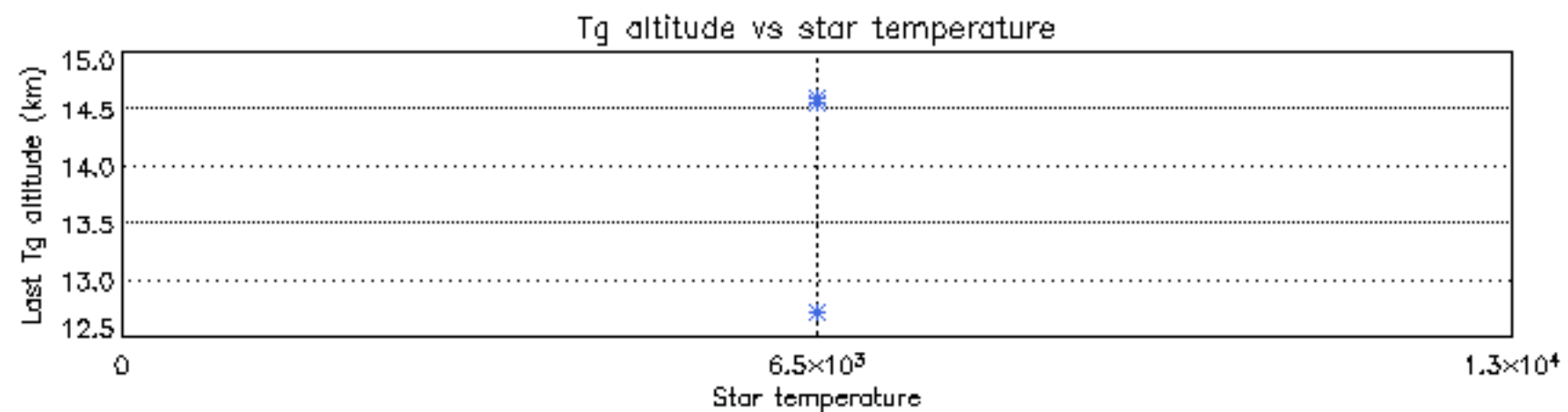
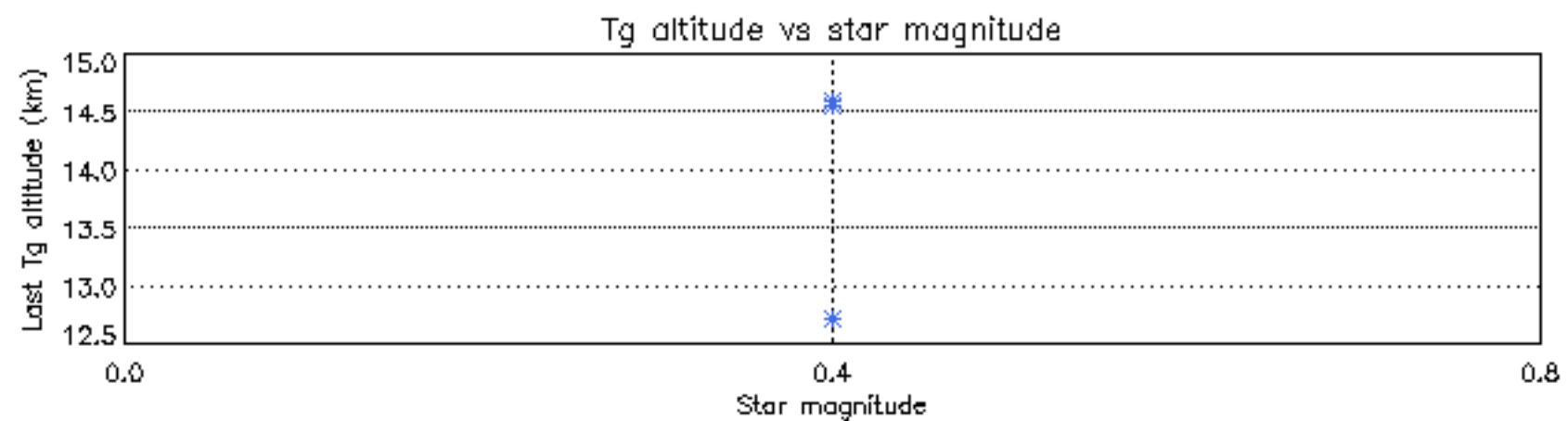
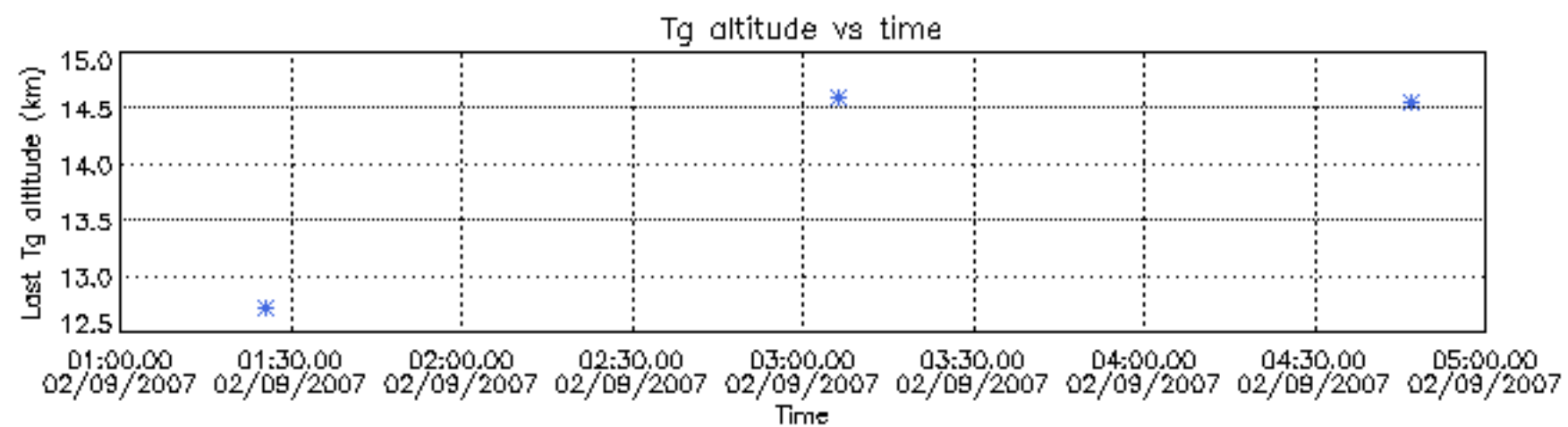
Tangent altitude at which the star is lost



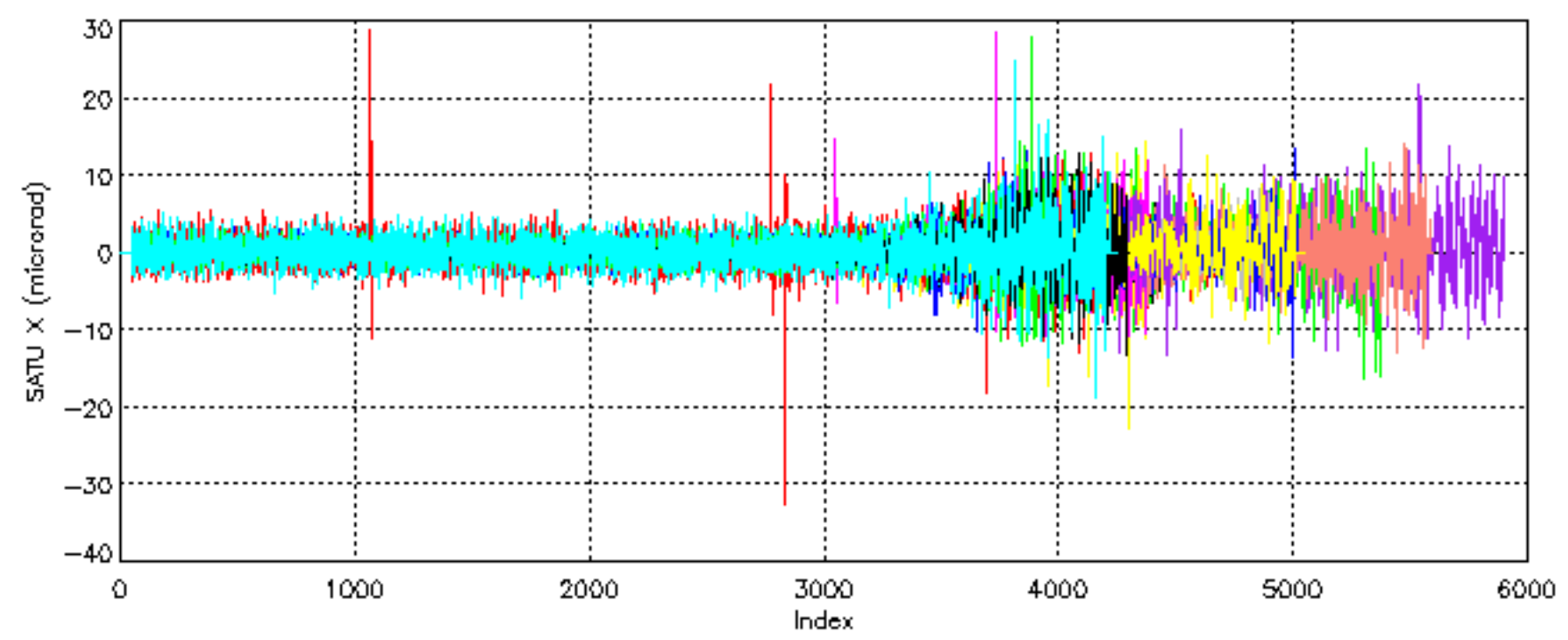
Tangent altitude at which the star is lost

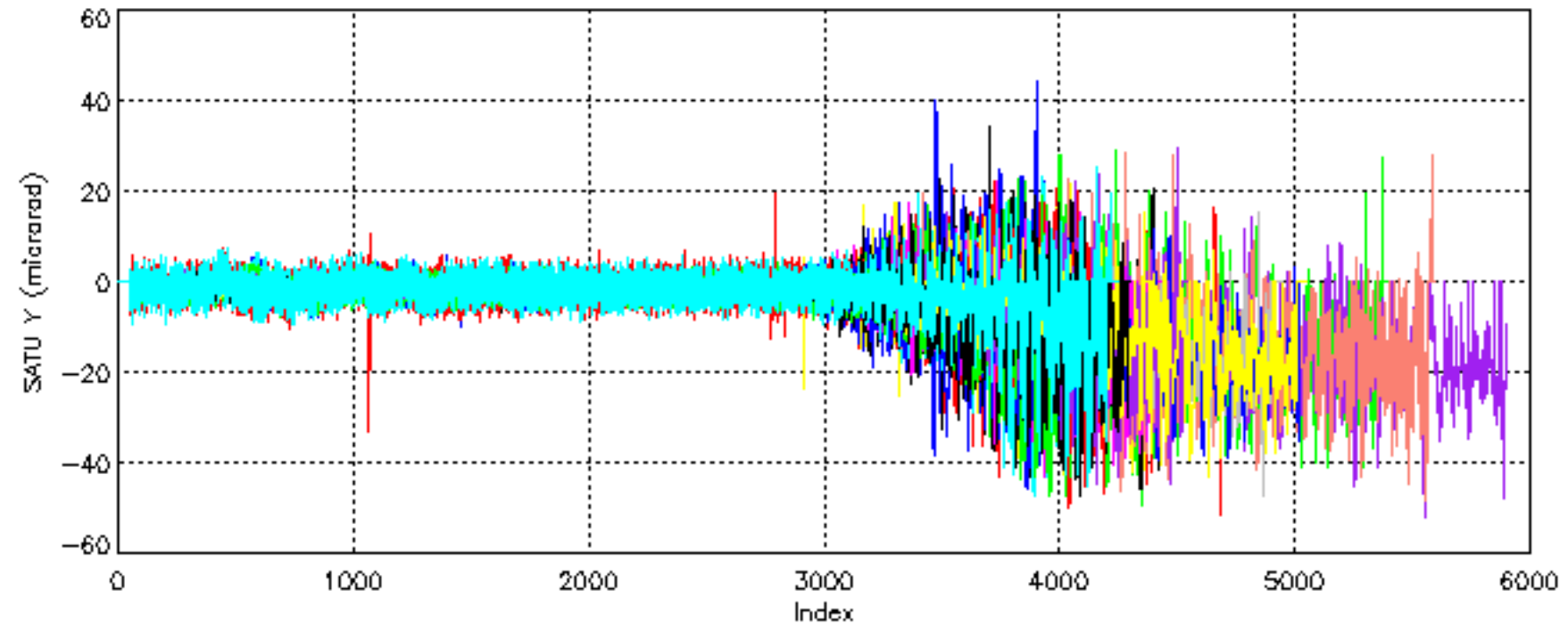


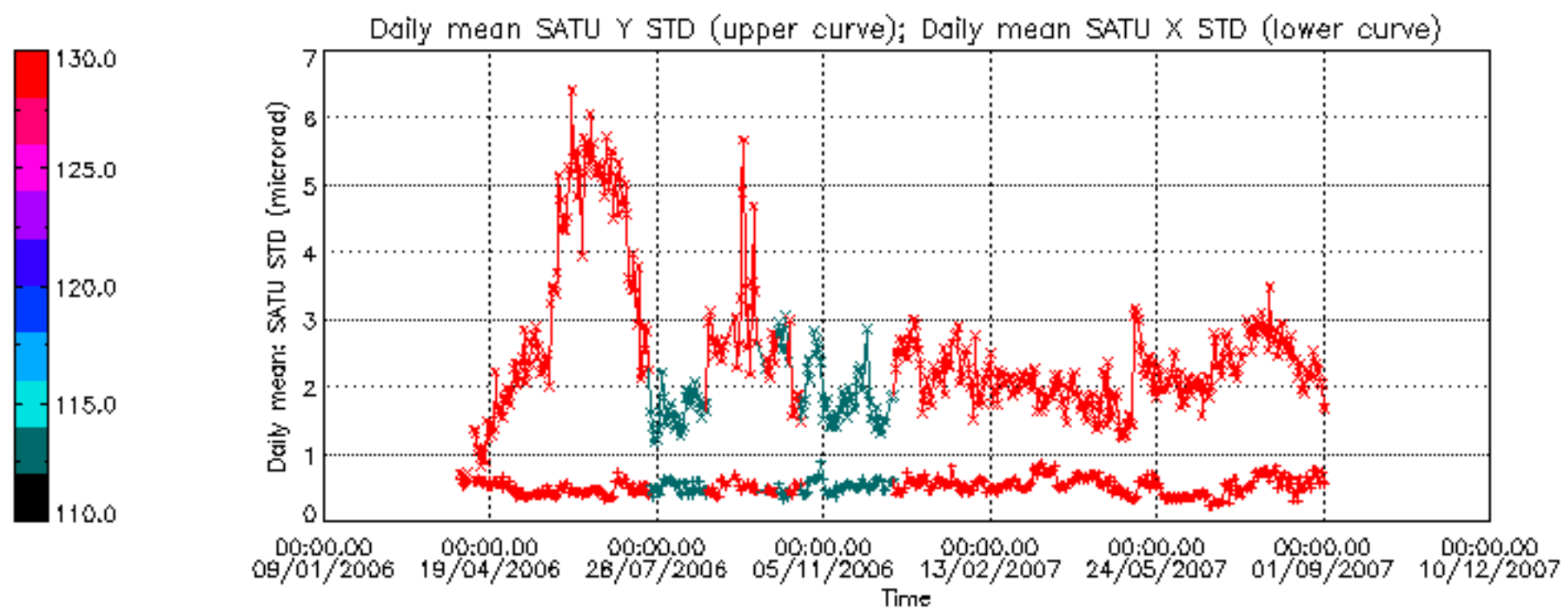
Tangent altitude at which the star is lost











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 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771  
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 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  
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 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772  
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 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  
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 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  
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 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  
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 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774  
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 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
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 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
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 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
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 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
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 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
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14; 5644.3; 01-SEP-2007 20:35:28; Dark ; 43.0; 177; 1Zet CMA ; 3.02; 26000;occ; 86; 0;28782
15; 5739.0; 01-SEP-2007 20:37:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28782
16; 6566.5; 01-SEP-2007 20:50:50; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28782
17; 6643.8; 01-SEP-2007 20:52:07; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28782
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 2; -491.9; 02-SEP-2007 01:35:35; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28785
 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
 4; -87.7; 02-SEP-2007 01:42:19; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;28785

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5; 532.1; 02-SEP-2007 01:52:39; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28786  
6; 609.6; 02-SEP-2007 01:53:57; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;28786  
7; 1053.6; 02-SEP-2007 02:01:21; Dark ; 43.0; 63; Bet Gru ; 2.15; 2800;occ; 86; 0;28786  
8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786  
9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786  
10; 1808.4; 02-SEP-2007 02:13:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28786  
11; 1895.4; 02-SEP-2007 02:15:22; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28786  
12; 2075.2; 02-SEP-2007 02:18:22; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28786  
13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786  
14; 3434.5; 02-SEP-2007 02:41:02; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28786

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3;-1118.2; 02-SEP-2007 03:05:45; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28786  
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6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786  
7; -294.2; 02-SEP-2007 03:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28786  
8; -87.1; 02-SEP-2007 03:22:56; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;28786  
9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
10; 610.4; 02-SEP-2007 03:34:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28787  
11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787  
12; 1332.4; 02-SEP-2007 03:46:35; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28787  
13; 1620.8; 02-SEP-2007 03:51:24; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28787  
14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787  
15; 1895.7; 02-SEP-2007 03:55:59; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28787  
16; 2075.4; 02-SEP-2007 03:58:58; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28787  
17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787  
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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2;-1421.4; 02-SEP-2007 04:41:18; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28787  
3;-1117.9; 02-SEP-2007 04:46:21; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;28787  
4; -655.4; 02-SEP-2007 04:54:04; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;28787  
5; -490.8; 02-SEP-2007 04:56:48; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;28787  
6; -388.0; 02-SEP-2007 04:58:31; Dark ; 42.5; 177; 1Zet CMA ; 3.02; 26000;occ; 85; 0;28787  
7; -293.5; 02-SEP-2007 05:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28787  
8; -86.7; 02-SEP-2007 05:03:32; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;28787  
9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788  
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11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788  
12; 1332.6; 02-SEP-2007 05:27:11; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28788  
13; 1621.1; 02-SEP-2007 05:32:00; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;28788  
14; 1808.7; 02-SEP-2007 05:35:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28788  
15; 1895.6; 02-SEP-2007 05:36:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28788  
16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788  
17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788  
18; 3434.6; 02-SEP-2007 06:02:14; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28788

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2; 1335.0; 02-SEP-2007 20:32:37; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28797  
3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797  
4; 1809.5; 02-SEP-2007 20:40:32; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28797  
5; 1895.5; 02-SEP-2007 20:41:58; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28797  
6; 2074.9; 02-SEP-2007 20:44:57; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28797  
7; 2974.1; 02-SEP-2007 20:59:56; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28797  
8; 3434.4; 02-SEP-2007 21:07:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28797  
9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797  
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3; -380.8; 02-SEP-2007 21:44:37; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28797  
4; -286.8; 02-SEP-2007 21:46:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28797  
5; -204.7; 02-SEP-2007 21:47:33; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28797  
6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797  
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



9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798  
 10; 1335.3; 02-SEP-2007 22:13:13; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28798  
 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  
 14; 2074.8; 02-SEP-2007 22:25:33; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28798  
 15; 2974.0; 02-SEP-2007 22:40:32; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28798  
 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798  
 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  
 19; 5387.6; 02-SEP-2007 23:20:46; Dark ; 12.0; 1; 9Alp CMA ; -1.44; 11000;occ; 24; 0;28798

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 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798  
 4; -81.6; 02-SEP-2007 23:30:12; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28798  
 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  
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799  
 10; 1809.6; 03-SEP-2007 00:01:44; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28799  
 11; 1895.5; 03-SEP-2007 00:03:09; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28799  
 12; 2074.8; 03-SEP-2007 00:06:09; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28799  
 13; 2973.9; 03-SEP-2007 00:21:08; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28799  
 14; 3434.5; 03-SEP-2007 00:28:48; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;28799  
 15; 4455.5; 03-SEP-2007 00:45:50; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28799  
 16; 4921.9; 03-SEP-2007 00:53:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28799  
 17; 5388.2; 03-SEP-2007 01:01:22; Dark ; 30.5; 1; 9Alp CMA ; -1.44; 11000;occ; 61; 0;28799

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 3; -1117.6; 02-SEP-2007 06:26:57; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28788  
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 5; 4454.2; 02-SEP-2007 07:59:49; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28789  
 6; 4615.0; 02-SEP-2007 08:02:30; Dark ; 44.0; 170; 27Eps Gem ; 3.00; 9700;occ; 88; 0;28789  
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 10; 5649.4; 02-SEP-2007 08:19:44; Dark ; 41.0; 177; 1Zet CMA ; 3.02; 26000;occ; 82; 0;28789  
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 13; 6570.4; 02-SEP-2007 08:35:05; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28789  
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 17; 7657.2; 02-SEP-2007 08:53:12; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28789  
 18; 7844.9; 02-SEP-2007 08:56:20; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;28789

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 4; 2974.6; 02-SEP-2007 09:15:45; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28790  
 5; 3434.6; 02-SEP-2007 09:23:25; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28790

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7; 4615.3; 02-SEP-2007 09:43:06; Dark ; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;28790
8; 4919.0; 02-SEP-2007 09:48:10; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;28790
9; 5382.5; 02-SEP-2007 09:55:53; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;28790
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14; 6570.9; 02-SEP-2007 10:15:42; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;28790
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17; 7369.4; 02-SEP-2007 10:29:00; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28790
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 3; 1895.4; 03-SEP-2007 15:08:33; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28808  
 4; 2074.7; 03-SEP-2007 15:11:32; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28808  
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 7; 4456.9; 03-SEP-2007 15:51:14; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28808  
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 9; 5394.3; 03-SEP-2007 16:06:52; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;28808  
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 11; 5647.5; 03-SEP-2007 16:11:05; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;28808  
 12; 5756.8; 03-SEP-2007 16:12:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28808  
 13; 5841.6; 03-SEP-2007 16:14:19; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28808  
 14; 5959.1; 03-SEP-2007 16:16:16; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;28808  
 15; 6580.9; 03-SEP-2007 16:26:38; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28808  
 16; 6659.5; 03-SEP-2007 16:27:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28808  
 17; 7096.7; 03-SEP-2007 16:35:14; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;28808

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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  
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 9; 4925.4; 03-SEP-2007 17:39:39; Dark ; 46.0; 8; 10Alp CMi ; 0.40; 6500;occ; 92; 0;28809  
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 11; 5557.2; 03-SEP-2007 17:50:10; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 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  
 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28809  
 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809  
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 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809  
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 3; 1624.0; 03-SEP-2007 18:25:13; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;28810  
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 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810  
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 9; 4457.2; 03-SEP-2007 19:12:26; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28810  
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 13; 5648.2; 03-SEP-2007 19:32:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;28810  
 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810  
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 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810  
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 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814  
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 3; 3164.7; 04-SEP-2007 04:54:29; Bright; 88.5; 53; 43Bet And ; 2.05; 3300;occ; 177; 0;28816
 4; 3535.1; 04-SEP-2007 05:00:40; Bright; 85.5; 73; 57Gam1And ; 2.26; 13100;occ; 171; 0;28816
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 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
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 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
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 7; 3162.6; 04-SEP-2007 06:35:03; Bright; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
 5; 4187.8; 04-SEP-2007 21:57:32; Bright; 84.0; 149; 45Eps Per ; 2.89; 30000;occ; 168; 0;28826
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 5; 3514.7; 04-SEP-2007 23:26:55; Bright; 84.0; 73; 57Gam1And ; 2.26; 13100;occ; 168; 0;28827
 6; 3958.7; 04-SEP-2007 23:34:19; Bright; 101.0; 79; 26Bet Per ; 2.31; 13100;occ; 202; 0;28827
 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
 6; 3957.3; 05-SEP-2007 01:14:53; Bright; 104.5; 79; 26Bet Per ; 2.31; 13100;occ; 209; 0;28828
 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 3; -2280.4; 04-SEP-2007 08:25:32; Bright; 169.0; 173; 4Bet Tri ; 3.00; 8900;occ; 338; 0;28818
 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
 5; -1402.9; 04-SEP-2007 08:40:09; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28818
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3;-2283.6; 04-SEP-2007 10:06:05; Bright; 164.0; 173; 4Bet Tri ; 3.00; 8900;occ; 328; 0;28819
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 5; 3518.2; 23-SEP-2007 08:24:24; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;29090  
 6; 3889.6; 23-SEP-2007 08:30:35; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;29090  
 7; 3977.8; 23-SEP-2007 08:32:04; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29090  
 8; 4166.2; 23-SEP-2007 08:35:12; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29090  
 9; 5704.6; 23-SEP-2007 09:00:50; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29090  
 10; 5791.4; 23-SEP-2007 09:02:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29090  
 11; 5903.0; 23-SEP-2007 09:04:09; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29090  
 12; 5997.2; 23-SEP-2007 09:05:43; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29090  
 13; 6623.9; 23-SEP-2007 09:16:10; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;29090  
 14; 6720.1; 23-SEP-2007 09:17:46; Dark ; 28.0; 143; Alp Hyi ; 2.86; 7200;occ; 56; 0;29090  
 15; 7161.2; 23-SEP-2007 09:25:07; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;29090  
 16; 7436.3; 23-SEP-2007 09:29:42; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;29090

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1; 1919.9; 23-SEP-2007 09:38:22; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29091  
 2; 2103.5; 23-SEP-2007 09:41:25; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;29091  
 3; 2981.0; 23-SEP-2007 09:56:03; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29091  
 4; 3430.1; 23-SEP-2007 10:03:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29091  
 5; 3518.4; 23-SEP-2007 10:05:00; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29091  
 6; 3889.7; 23-SEP-2007 10:11:11; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;29091  
 7; 3978.0; 23-SEP-2007 10:12:40; Bright; 33.5; 82; 48Bet UMA ; 2.37; 10600;occ; 67; 0;29091  
 8; 4166.6; 23-SEP-2007 10:15:48; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29091  
 9; 5704.8; 23-SEP-2007 10:41:27; Dark ; 41.5; 65; Lam Vel ; 2.20; 4400;occ; 83; 0;29091  
 10; 5791.6; 23-SEP-2007 10:42:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29091  
 11; 5903.3; 23-SEP-2007 10:44:45; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29091  
 12; 5997.4; 23-SEP-2007 10:46:19; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;29091  
 13; 6623.9; 23-SEP-2007 10:56:46; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29091  
 14; 6720.5; 23-SEP-2007 10:58:22; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29091  
 15; 7161.3; 23-SEP-2007 11:05:43; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;29091  
 16; 7436.4; 23-SEP-2007 11:10:18; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;29091

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1; 1920.1; 23-SEP-2007 11:18:58; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;29092  
 2; 2103.7; 23-SEP-2007 11:22:01; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29092  
 3; 2981.2; 23-SEP-2007 11:36:39; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29092  
 4; 3518.9; 23-SEP-2007 11:45:36; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29092  
 5; 3889.9; 23-SEP-2007 11:51:48; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;29092  
 6; 3978.1; 23-SEP-2007 11:53:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29092  
 7; 4166.7; 23-SEP-2007 11:56:24; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;29092  
 8; 5705.1; 23-SEP-2007 12:22:03; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29092  
 9; 5791.9; 23-SEP-2007 12:23:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29092  
 10; 5903.5; 23-SEP-2007 12:25:21; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29092  
 11; 5997.7; 23-SEP-2007 12:26:55; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;29092  
 12; 6624.1; 23-SEP-2007 12:37:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29092  
 13; 6720.9; 23-SEP-2007 12:38:58; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29092  
 14; 7161.5; 23-SEP-2007 12:46:19; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;29092  
 15; 7436.6; 23-SEP-2007 12:50:54; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;29092

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1; 1920.2; 23-SEP-2007 12:59:34; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;29093  
 2; 2103.9; 23-SEP-2007 13:02:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29093  
 3; 2981.3; 23-SEP-2007 13:17:15; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;29093  
 4; 3430.2; 23-SEP-2007 13:24:44; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29093  
 5; 3519.2; 23-SEP-2007 13:26:13; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29093



6; 3890.1; 23-SEP-2007 13:32:24; Bright; 32.5; 36; 50Alp UMA ; 1.80; 6300;occ; 65; 0;29093  
7; 3978.3; 23-SEP-2007 13:33:52; Bright; 34.0; 82; 48Bet UMA ; 2.37; 10600;occ; 68; 0;29093  
8; 4167.0; 23-SEP-2007 13:37:00; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29093  
9; 5705.5; 23-SEP-2007 14:02:39; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;29093  
10; 5792.3; 23-SEP-2007 14:04:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29093  
11; 5903.8; 23-SEP-2007 14:05:57; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29093  
12; 5998.0; 23-SEP-2007 14:07:31; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29093  
13; 6624.2; 23-SEP-2007 14:17:58; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;29093  
14; 6721.4; 23-SEP-2007 14:19:35; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29093  
15; 7161.7; 23-SEP-2007 14:26:55; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;29093  
16; 7436.8; 23-SEP-2007 14:31:30; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;29093

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1; 1400.9; 23-SEP-2007 14:31:30; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;29094  
2; 1920.4; 23-SEP-2007 14:40:10; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29094  
3; 2104.2; 23-SEP-2007 14:43:14; Bright; 36.0; 61; 8Eps Peg ; 2.10; 3900;occ; 72; 0;29094  
4; 2981.4; 23-SEP-2007 14:57:51; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29094  
5; 3430.1; 23-SEP-2007 15:05:19; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29094  
6; 3519.5; 23-SEP-2007 15:06:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29094  
7; 3890.3; 23-SEP-2007 15:13:00; Bright; 35.0; 36; 50Alp UMA ; 1.80; 6300;occ; 70; 0;29094  
8; 3978.6; 23-SEP-2007 15:14:28; Bright; 33.5; 82; 48Bet UMA ; 2.37; 10600;occ; 67; 0;29094  
9; 4167.3; 23-SEP-2007 15:17:37; Bright; 33.0; 174; 52Psi UMA ; 3.00; 4400;occ; 66; 0;29094  
10; 4566.8; 23-SEP-2007 15:24:16; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;29094  
11; 5705.8; 23-SEP-2007 15:43:15; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29094  
12; 5792.6; 23-SEP-2007 15:44:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29094  
13; 5904.2; 23-SEP-2007 15:46:34; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;29094  
14; 5998.4; 23-SEP-2007 15:48:08; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;29094  
15; 6624.4; 23-SEP-2007 15:58:34; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;29094  
16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094  
17; 7161.9; 23-SEP-2007 16:07:31; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;29094

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1; 1401.1; 23-SEP-2007 16:12:06; Dark ; 41.0; 18; 24Alp PsA ; 1.17; 9700;occ; 82; 0;29095  
2; 1920.4; 23-SEP-2007 16:20:46; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29095  
3; 2104.3; 23-SEP-2007 16:23:50; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;29095  
4; 2981.5; 23-SEP-2007 16:38:27; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29095  
5; 3430.0; 23-SEP-2007 16:45:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29095  
6; 3519.7; 23-SEP-2007 16:47:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29095  
7; 3890.4; 23-SEP-2007 16:53:36; Bright; 52.0; 36; 50Alp UMA ; 1.80; 6300;occ; 104; 0;29095  
8; 3978.7; 23-SEP-2007 16:55:04; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29095  
9; 4167.5; 23-SEP-2007 16:58:13; Bright; 32.5; 174; 52Psi UMA ; 3.00; 4400;occ; 65; 0;29095  
10; 4567.1; 23-SEP-2007 17:04:52; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29095  
11; 5706.0; 23-SEP-2007 17:23:51; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29095  
12; 5793.0; 23-SEP-2007 17:25:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29095  
13; 5904.4; 23-SEP-2007 17:27:10; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29095  
14; 5998.7; 23-SEP-2007 17:28:44; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;29095  
15; 6624.6; 23-SEP-2007 17:39:10; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29095  
16; 6722.4; 23-SEP-2007 17:40:48; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29095  
17; 7162.1; 23-SEP-2007 17:48:07; Dark ; 3.0; 63; Bet Gru ; 2.15; 2800;occ; 6; 0;29095

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1; 1126.1; 23-SEP-2007 17:48:07; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;29096  
2; 1401.3; 23-SEP-2007 17:52:43; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;29096  
3; 1920.5; 23-SEP-2007 18:01:22; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29096  
4; 2104.6; 23-SEP-2007 18:04:26; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29096  
5; 2981.7; 23-SEP-2007 18:19:03; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29096  
6; 3430.0; 23-SEP-2007 18:26:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29096  
7; 3520.0; 23-SEP-2007 18:28:01; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29096  
8; 3890.4; 23-SEP-2007 18:34:12; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;29096  
9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096  
10; 4167.6; 23-SEP-2007 18:38:49; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;29096  
11; 4567.2; 23-SEP-2007 18:45:28; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;29096  
12; 5706.3; 23-SEP-2007 19:04:28; Dark ; 39.0; 65; Lam Vel ; 2.20; 4400;occ; 78; 0;29096  
13; 5793.3; 23-SEP-2007 19:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29096  
14; 5904.6; 23-SEP-2007 19:07:46; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29096  
15; 5998.9; 23-SEP-2007 19:09:20; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29096  
16; 6624.7; 23-SEP-2007 19:19:46; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29096  
17; 6722.6; 23-SEP-2007 19:21:24; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29096

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2; 1401.4; 23-SEP-2007 19:33:19; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;29097

3; 1920.7; 23-SEP-2007 19:41:58; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;29097  
4; 2104.7; 23-SEP-2007 19:45:02; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29097  
5; 2981.7; 23-SEP-2007 19:59:39; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;29097  
6; 3430.0; 23-SEP-2007 20:07:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29097  
7; 3520.3; 23-SEP-2007 20:08:38; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29097  
8; 3890.6; 23-SEP-2007 20:14:48; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29097  
9; 3978.9; 23-SEP-2007 20:16:16; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0;29097  
10; 4167.8; 23-SEP-2007 20:19:25; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29097  
11; 4567.3; 23-SEP-2007 20:26:05; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29097  
12; 5706.4; 23-SEP-2007 20:45:04; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29097  
13; 5793.5; 23-SEP-2007 20:46:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29097  
14; 5904.9; 23-SEP-2007 20:48:22; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29097  
15; 5999.1; 23-SEP-2007 20:49:56; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;29097  
16; 6624.7; 23-SEP-2007 21:00:22; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;29097  
17; 6723.0; 23-SEP-2007 21:02:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29097

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2; 1412.4; 27-SEP-2007 22:28:49; Dark ; 39.5; 18; 24Alp PsA ; 1.17; 9700;occ; 79; 0;29156  
3; 1932.5; 27-SEP-2007 22:37:29; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;29156  
4; 2422.9; 27-SEP-2007 22:45:39; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;29156  
5; 2990.7; 27-SEP-2007 22:55:07; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;29156  
6; 3429.4; 27-SEP-2007 23:02:26; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29156  
7; 3537.6; 27-SEP-2007 23:04:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;29156  
8; 3899.5; 27-SEP-2007 23:10:16; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29156  
9; 3988.8; 27-SEP-2007 23:11:45; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29156  
10; 4179.6; 27-SEP-2007 23:14:56; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29156  
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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2; -892.7; 27-SEP-2007 23:31:00; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29156  
3; -311.6; 27-SEP-2007 23:40:41; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29156  
4; -223.0; 27-SEP-2007 23:42:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29156  
5; -113.4; 27-SEP-2007 23:43:59; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29156  
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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