

# GOMOS Daily Report 02-JUL-2008

## 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	04JUL2008 05:32:09
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

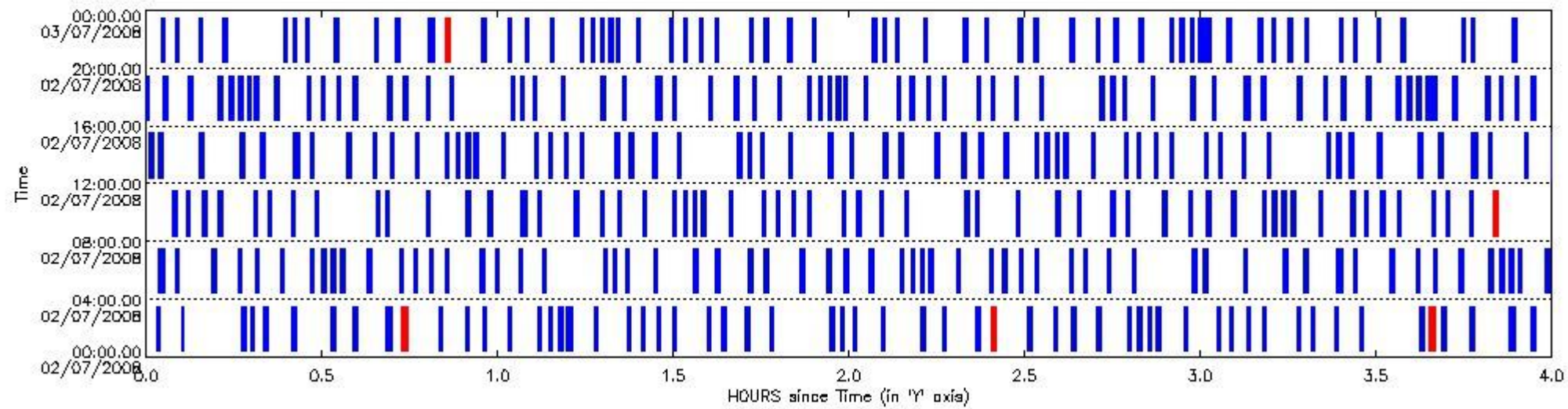
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

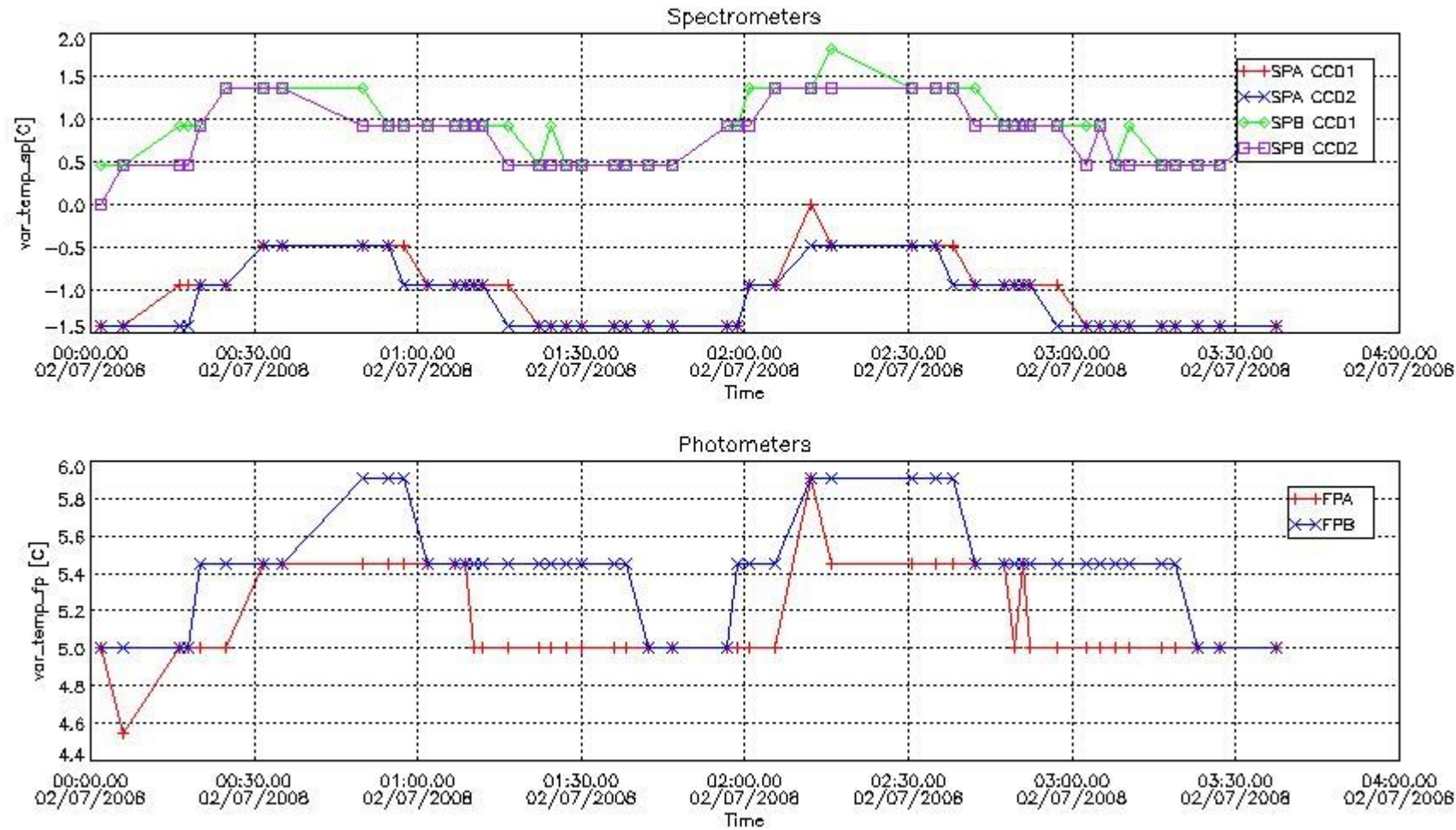
UTC start time	Star name	Star ID	Orbit
02-JUL-2008 00:43:40	The1Eri	157	33136
02-JUL-2008 02:24:17	The1Eri	157	33137
02-JUL-2008 03:39:06	39DelPer	175	33138
02-JUL-2008 11:50:04	1AlpUMi	49	33143
02-JUL-2008 20:50:57	The1Eri	157	33148

### 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_1PNPDE20080702_000144_000000372070_00016_33136_8166.N1	02-JUL-2008 00:01:44	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	33136	No
2	GOM_TRA_1PNPDE20080702_000555_000000322070_00016_33136_8167.N1	02-JUL-2008 00:05:55	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33136	No
3	GOM_TRA_1PNPDE20080702_001612_000000452070_00016_33136_8168.N1	02-JUL-2008 00:16:12	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	33136	No
4	GOM_TRA_1PNPDE20080702_001756_000000342070_00016_33136_8169.N1	02-JUL-2008 00:17:56	Bright	34.000	175	39Del Per	3.0100	19400.	68	33136	No
5	GOM_TRA_1PNPDE20080702_002005_000000452070_00016_33136_8170.N1	02-JUL-2008 00:20:05	Bright	45.000	79	26Bet Per	2.3100	13100.	90	33136	No
6	GOM_TRA_1PNPDE20080702_002452_000000392070_00016_33136_8171.N1	02-JUL-2008 00:24:52	Twilight	39.000	146	25Eta Tau	2.8730	15200.	78	33136	No

7	GOM_TRA_1PNPDE20080702_003136_000000462070_00016_33136_8172.N1	02-JUL-2008 00:31:36	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	33136	No
8	GOM_TRA_1PNPDE20080702_003516_000000412070_00016_33136_8173.N1	02-JUL-2008 00:35:16	Dark	40.500	165	34Gam Eri	2.9500	3200.0	81	33136	No
9	GOM_TRA_1PNPDE20080702_004951_000000442070_00017_33137_8330.N1	02-JUL-2008 00:49:51	Dark	44.000	9	Alp Eri	0.45300	24000.	88	33137	No
10	GOM_TRA_1PNPDE20080702_005426_000000372070_00017_33137_8331.N1	02-JUL-2008 00:54:26	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33137	No
11	GOM_TRA_1PNPDE20080702_005721_000000402070_00017_33137_8332.N1	02-JUL-2008 00:57:21	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	33137	No
12	GOM_TRA_1PNPDE20080702_010141_000000422070_00017_33137_8333.N1	02-JUL-2008 01:01:41	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	33137	No
13	GOM_TRA_1PNPDE20080702_010652_000000382070_00017_33137_8334.N1	02-JUL-2008 01:06:52	Twilight	37.500	147	Alp Ara	2.8770	26000.	75	33137	No
14	GOM_TRA_1PNPDE20080702_010841_000000402070_00017_33137_8335.N1	02-JUL-2008 01:08:41	Twilight	39.500	40	The Sco	1.8590	7100.0	79	33137	No
15	GOM_TRA_1PNPDE20080702_011021_000000412070_00017_33137_8336.N1	02-JUL-2008 01:10:21	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	33137	No
16	GOM_TRA_1PNPDE20080702_011146_000000532070_00017_33137_8337.N1	02-JUL-2008 01:11:46	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	33137	No
17	GOM_TRA_1PNPDE20080702_011632_000000372070_00017_33137_8338.N1	02-JUL-2008 01:16:32	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33137	No
18	GOM_TRA_1PNPDE20080702_012208_000000372070_00017_33137_8339.N1	02-JUL-2008 01:22:08	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	33137	No
19	GOM_TRA_1PNPDE20080702_012427_000000362070_00017_33137_8340.N1	02-JUL-2008 01:24:27	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33137	No
20	GOM_TRA_1PNPDE20080702_012713_000000362070_00017_33137_8341.N1	02-JUL-2008 01:27:13	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	33137	No
21	GOM_TRA_1PNPDE20080702_012955_000000372070_00017_33137_8342.N1	02-JUL-2008 01:29:55	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	33137	No
22	GOM_TRA_1PNPDE20080702_013552_000000342070_00017_33137_8343.N1	02-JUL-2008 01:35:52	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	33137	No
23	GOM_TRA_1PNPDE20080702_013819_000000372070_00017_33137_8344.N1	02-JUL-2008 01:38:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33137	No
24	GOM_TRA_1PNPDE20080702_014220_000000352070_00017_33137_8345.N1	02-JUL-2008 01:42:20	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	33137	No
25	GOM_TRA_1PNPDE20080702_014631_000000352070_00017_33137_8346.N1	02-JUL-2008 01:46:31	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	33137	No
26	GOM_TRA_1PNPDE20080702_015647_000000362070_00017_33137_8347.N1	02-JUL-2008 01:56:47	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	33137	No
27	GOM_TRA_1PNPDE20080702_015832_000000332070_00017_33137_8348.N1	02-JUL-2008 01:58:32	Bright	33.000	175	39Del Per	3.0100	19400.	66	33137	No
28	GOM_TRA_1PNPDE20080702_020041_000000392070_00017_33137_8349.N1	02-JUL-2008 02:00:41	Bright	38.500	79	26Bet Per	2.3100	13100.	77	33137	No
29	GOM_TRA_1PNPDE20080702_020528_000000372070_00017_33137_8350.N1	02-JUL-2008 02:05:28	Twilight	36.500	146	25Eta Tau	2.8730	15200.	73	33137	No
30	GOM_TRA_1PNPDE20080702_021212_000000522070_00017_33137_8448.N1	02-JUL-2008 02:12:12	Dark	51.500	94	92Alp Cet	2.5260	3100.0	103	33137	Yes
31	GOM_TRA_1PNPDE20080702_021552_000000402070_00017_33137_8449.N1	02-JUL-2008 02:15:52	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	33137	No
32	GOM_TRA_1PNPDE20080702_023028_000000412070_00018_33138_8450.N1	02-JUL-2008 02:30:28	Dark	40.500	9	Alp Eri	0.45300	24000.	81	33138	No
33	GOM_TRA_1PNPDE20080702_023502_000000372070_00018_33138_8451.N1	02-JUL-2008 02:35:02	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33138	No
34	GOM_TRA_1PNPDE20080702_023757_000000432070_00018_33138_8452.N1	02-JUL-2008 02:37:57	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	33138	No
35	GOM_TRA_1PNPDE20080702_024217_000000412070_00018_33138_8453.N1	02-JUL-2008 02:42:17	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	33138	No
36	GOM_TRA_1PNPDE20080702_024728_000000392070_00018_33138_8454.N1	02-JUL-2008 02:47:28	Twilight	38.500	147	Alp Ara	2.8770	26000.	77	33138	No
37	GOM_TRA_1PNPDE20080702_024917_000000422070_00018_33138_8455.N1	02-JUL-2008 02:49:17	Twilight	41.500	40	The Sco	1.8590	7100.0	83	33138	No
38	GOM_TRA_1PNPDE20080702_025057_000000412070_00018_33138_8456.N1	02-JUL-2008 02:50:57	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	33138	No
39	GOM_TRA_1PNPDE20080702_025222_000000542070_00018_33138_8457.N1	02-JUL-2008 02:52:22	Bright	53.500	116	19Del Sgr	2.7000	4100.0	107	33138	No
40	GOM_TRA_1PNPDE20080702_025708_000000372070_00018_33138_8458.N1	02-JUL-2008 02:57:08	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33138	No
41	GOM_TRA_1PNPDE20080702_030244_000000372070_00018_33138_8459.N1	02-JUL-2008 03:02:44	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	33138	No
42	GOM_TRA_1PNPDE20080702_030503_000000372070_00018_33138_8460.N1	02-JUL-2008 03:05:03	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	33138	No
43	GOM_TRA_1PNPDE20080702_030749_000000352070_00018_33138_8461.N1	02-JUL-2008 03:07:49	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	33138	No
44	GOM_TRA_1PNPDE20080702_031031_000000352070_00018_33138_8462.N1	02-JUL-2008 03:10:31	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	33138	No
45	GOM_TRA_1PNPDE20080702_031628_000000342070_00018_33138_8463.N1	02-JUL-2008 03:16:28	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	33138	No
46	GOM_TRA_1PNPDE20080702_031855_000000332070_00018_33138_8464.N1	02-JUL-2008 03:18:55	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	33138	No
47	GOM_TRA_1PNPDE20080702_032256_000000332070_00018_33138_8465.N1	02-JUL-2008 03:22:56	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	33138	No
48	GOM_TRA_1PNPDE20080702_032707_000000352070_00018_33138_8466.N1	02-JUL-2008 03:27:07	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33138	No
49	GOM_TRA_1PNPDE20080702_033723_000000562070_00018_33138_8672.N1	02-JUL-2008 03:37:23	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	33138	No

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



#### 4. Overview of dark signal processing per product

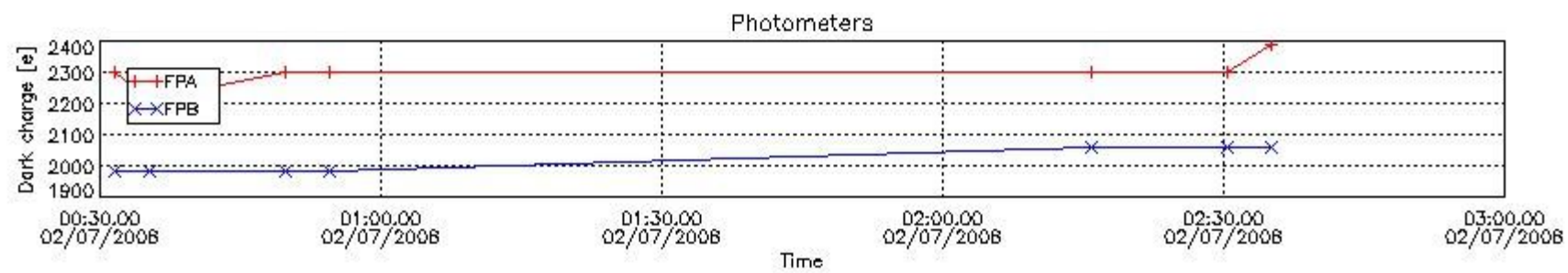
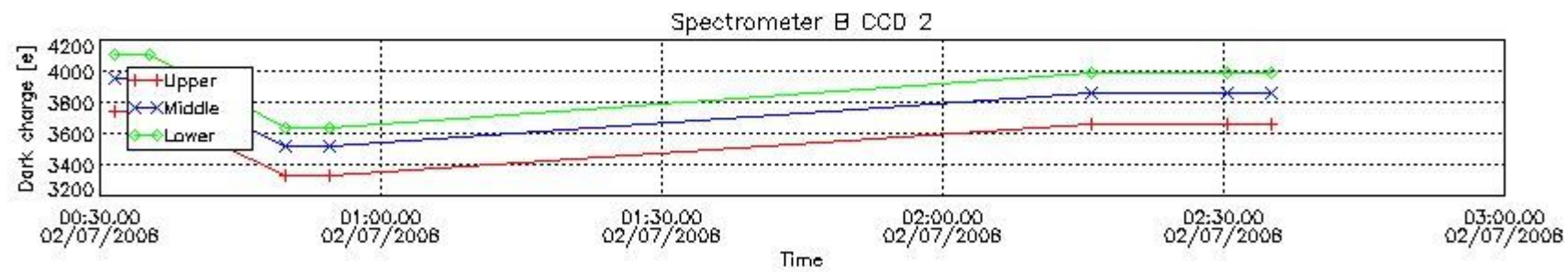
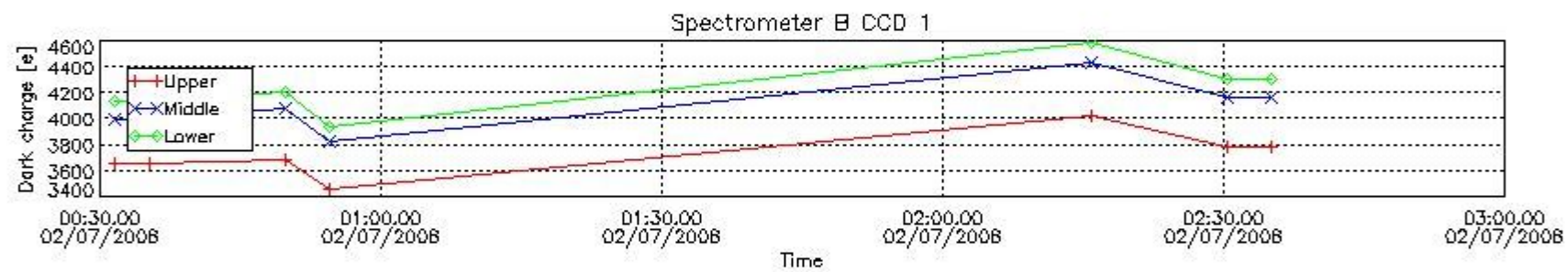
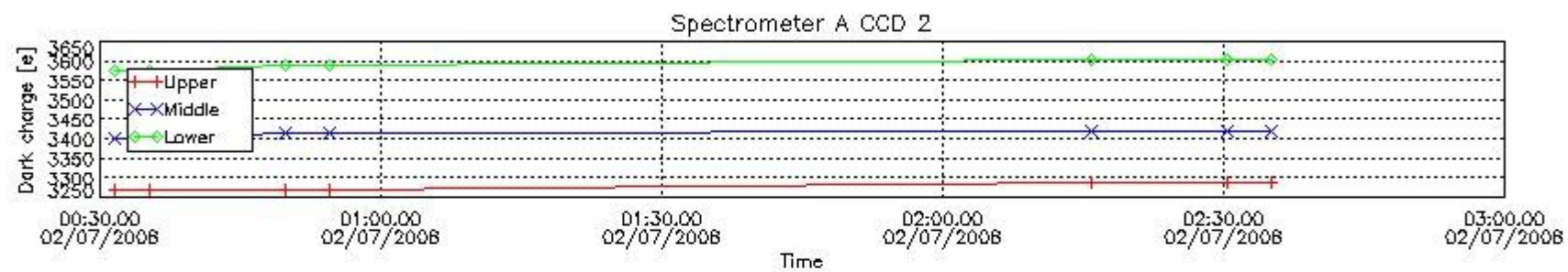
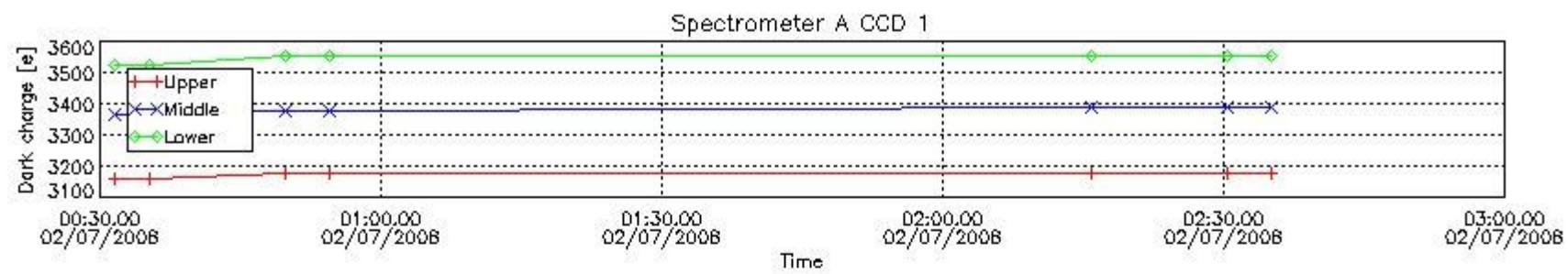
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





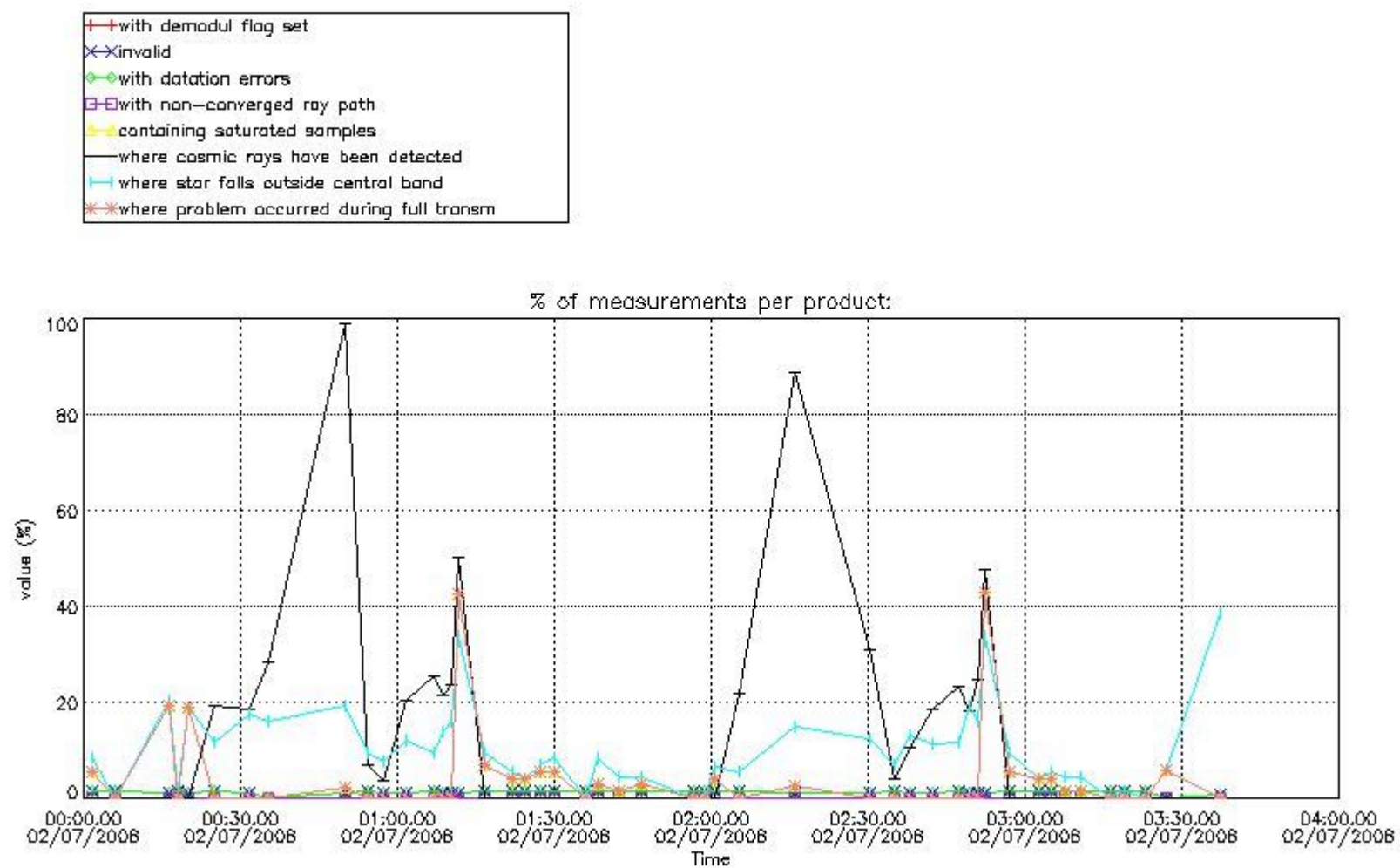
## 5. Demodulation flag and quality information monitoring

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.

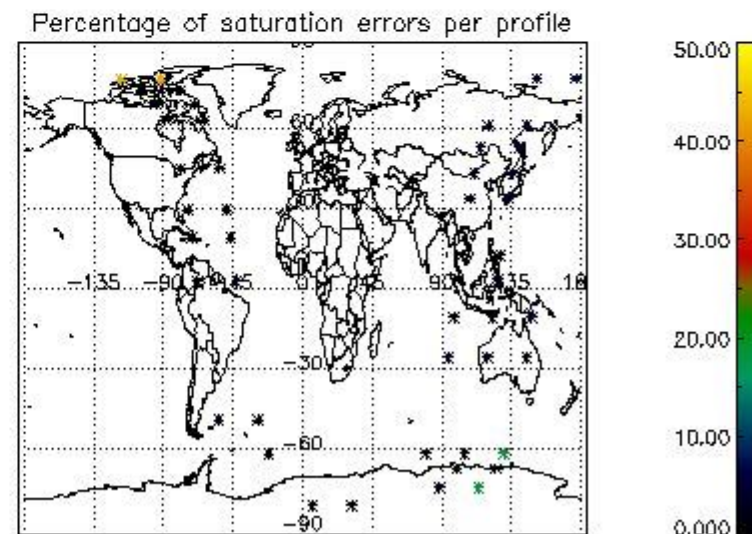
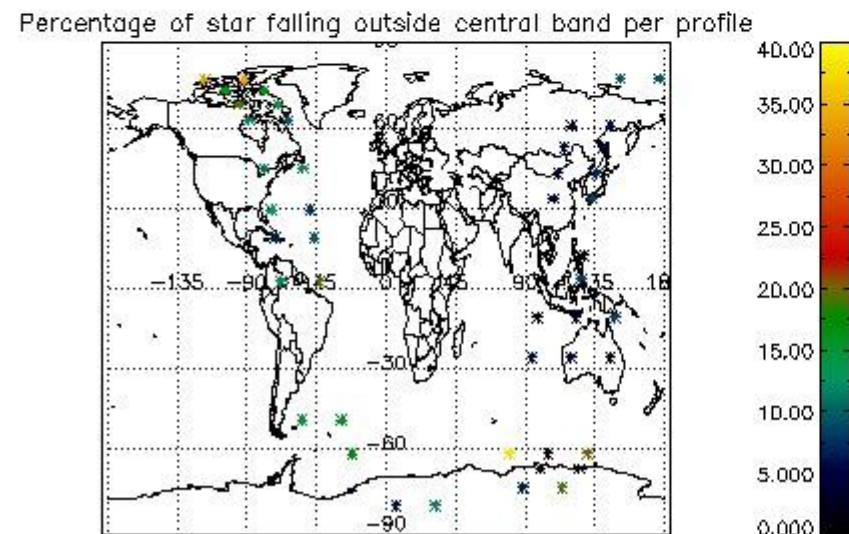
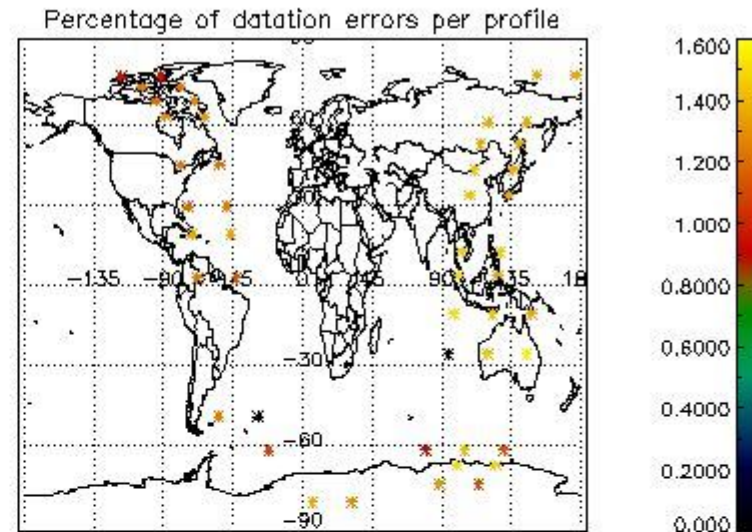
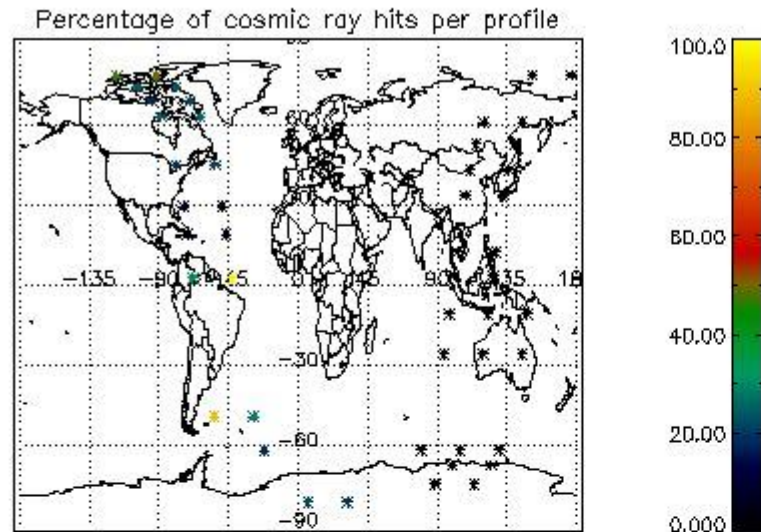
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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)

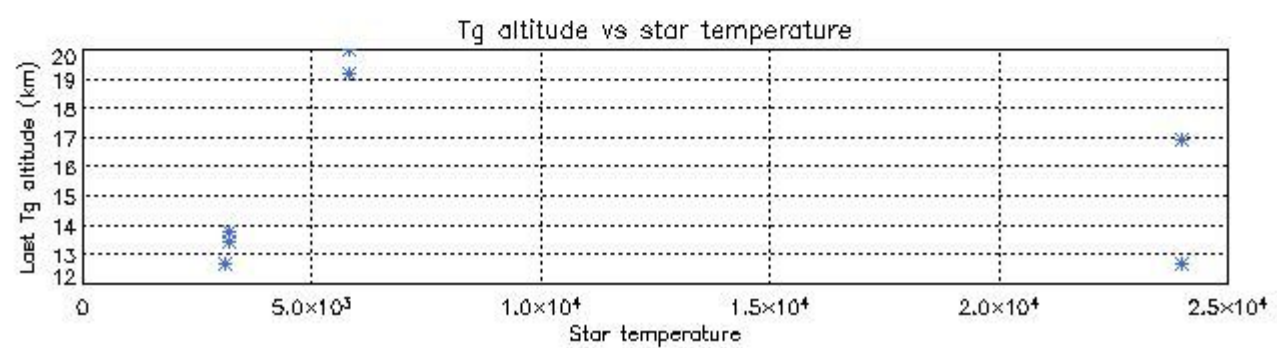
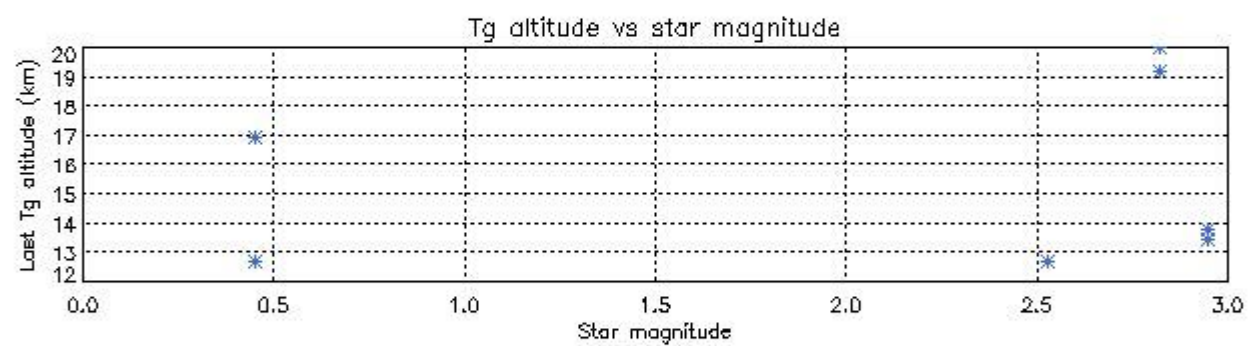
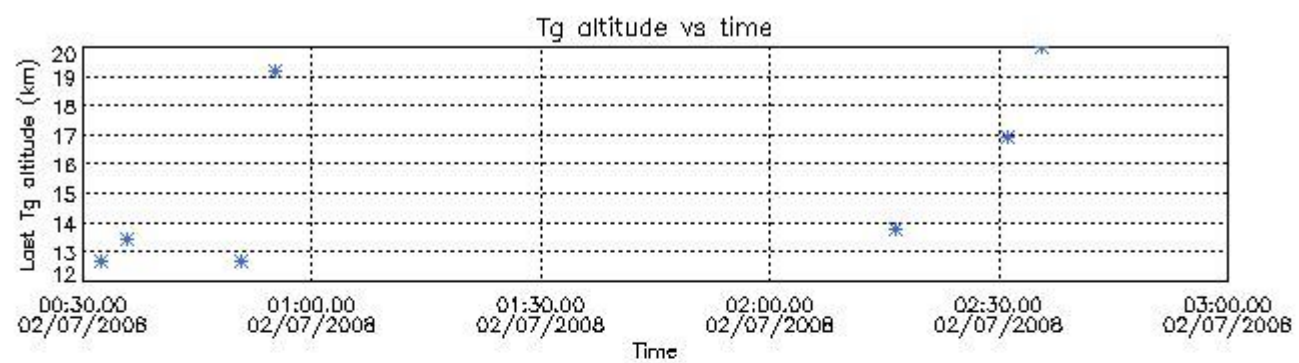
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.522	20.471	18.694
St. deviation:	3.1292	6.9170	3.1045
Maximum:	19.983	29.568	20.889
Minimum:	12.680	3.7931	16.498
Number of data:	7.0000	29.000	2.0000

### 6.2 Plot for DARK limb products



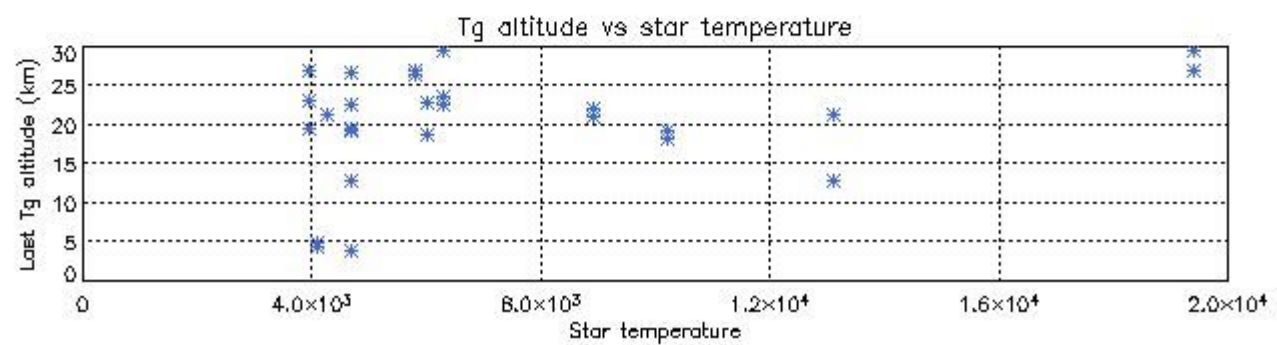
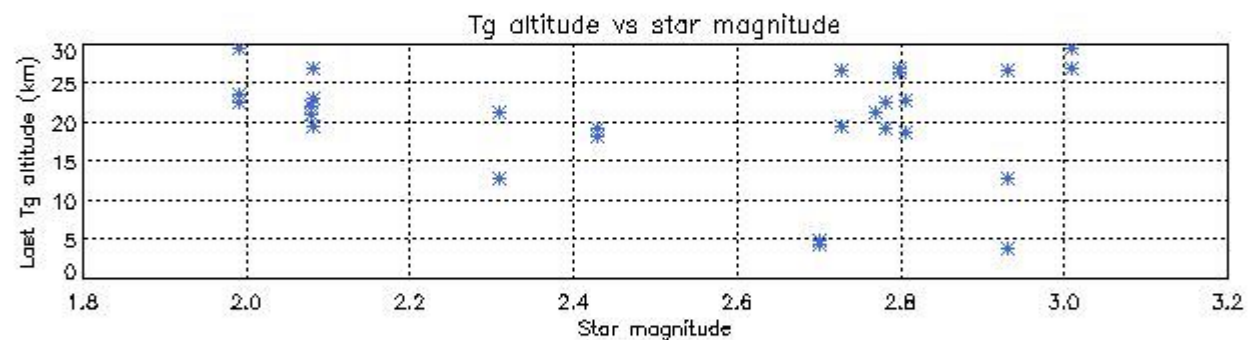
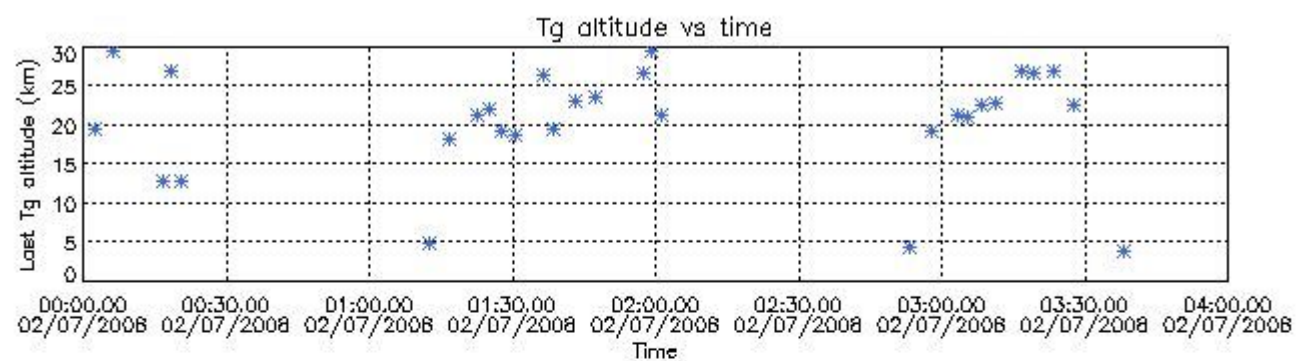
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

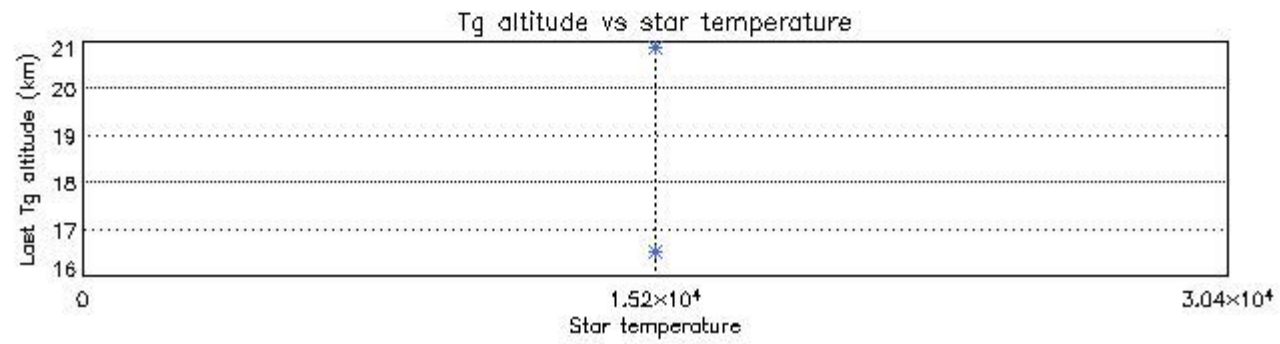
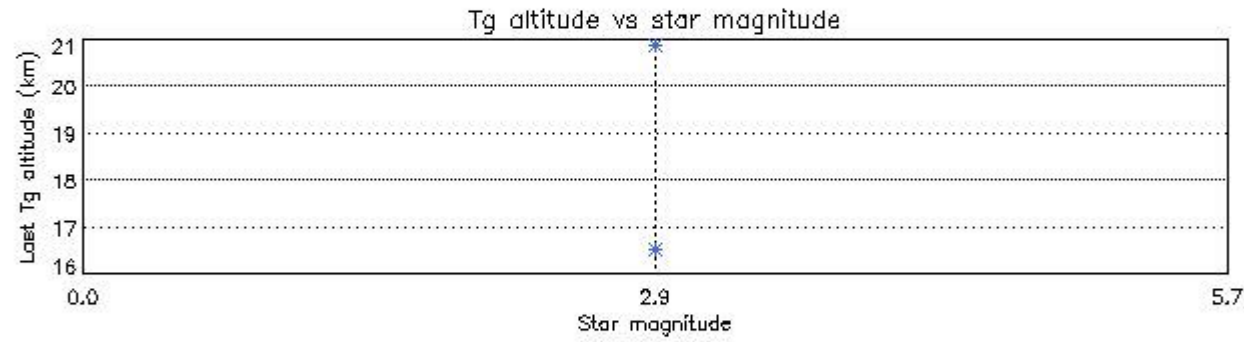
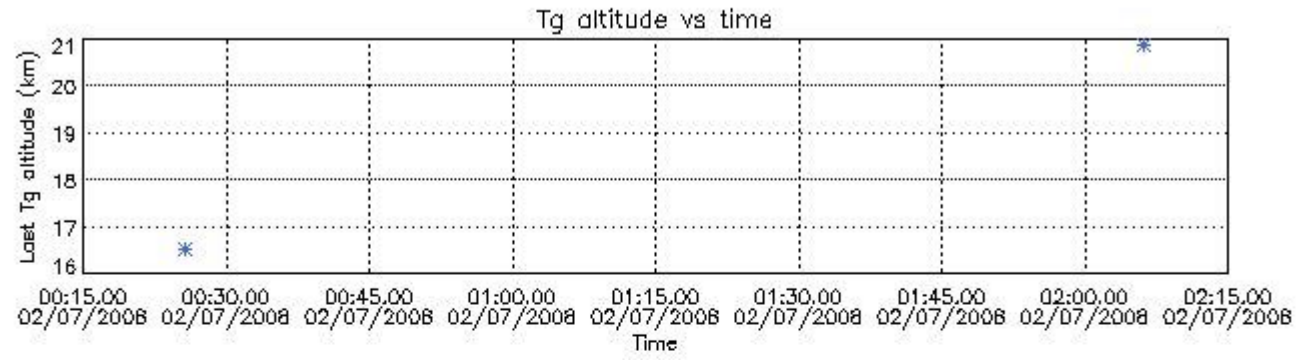


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

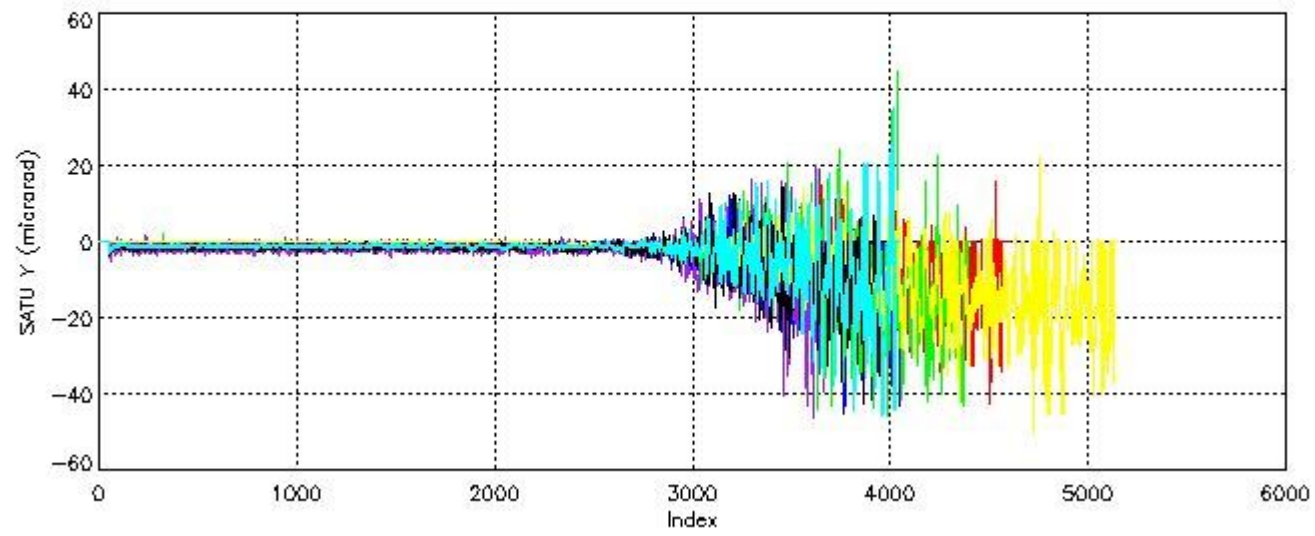
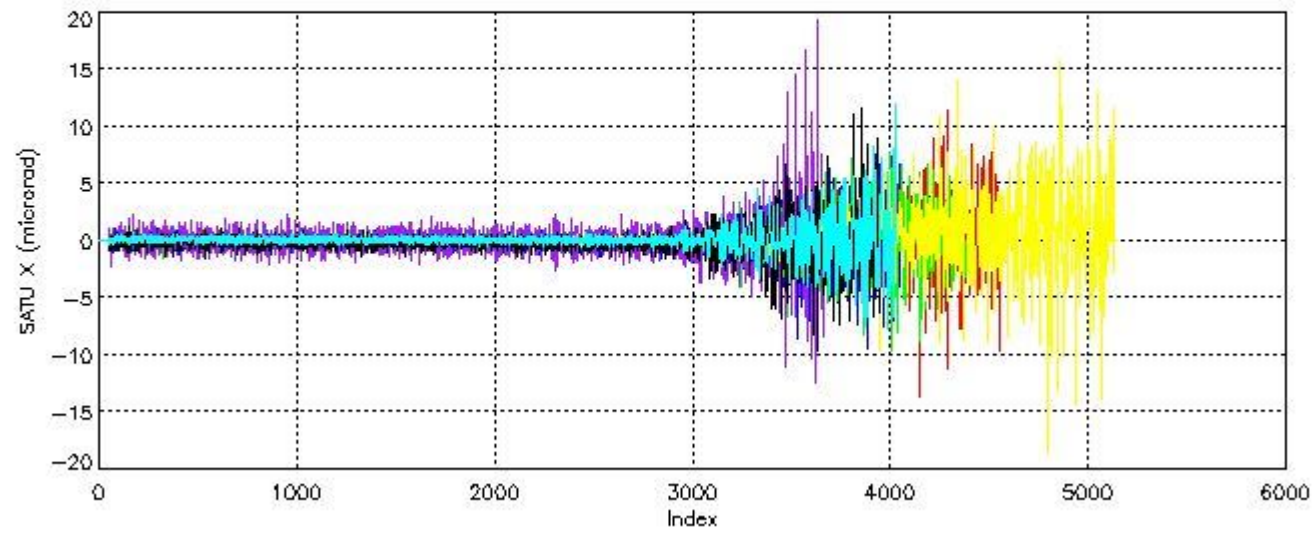


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.018382	-1.3420	0.085797	-1.3532
St. deviation:	0.38865	0.60447	0.73735	0.89482
Maximum:	2.2000	2.0000	5.1000	5.5000
Minimum:	-2.2000	-5.1000	-5.9000	-7.7000



Number of data:	6100.0	6100.0	24000.	24000.
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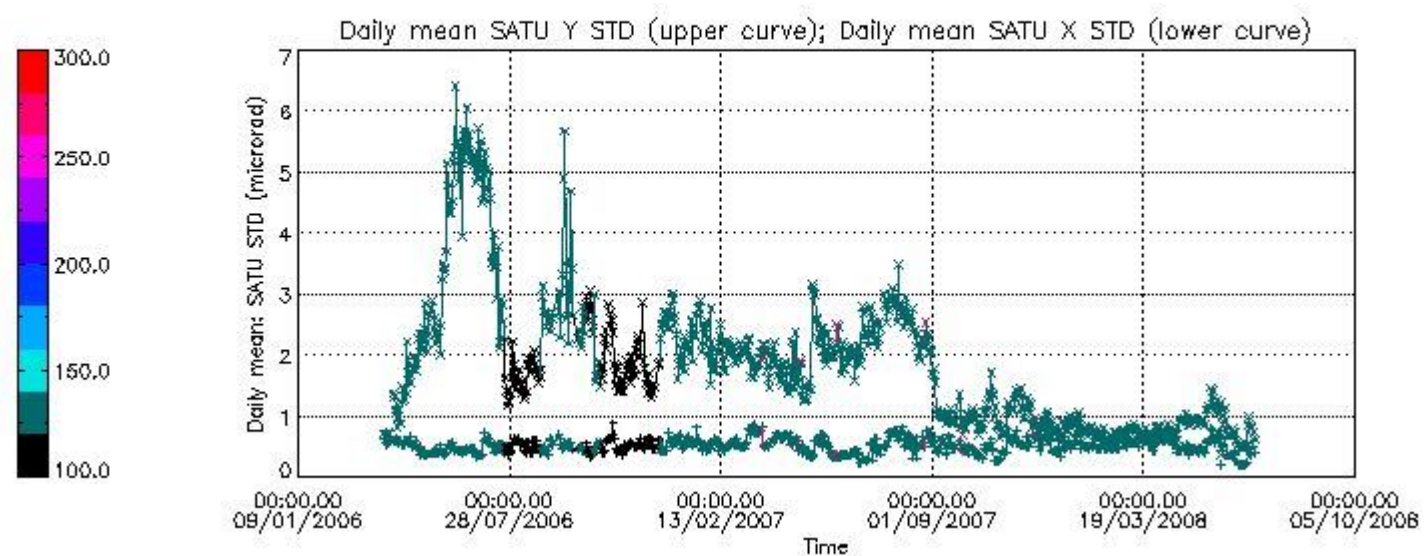
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

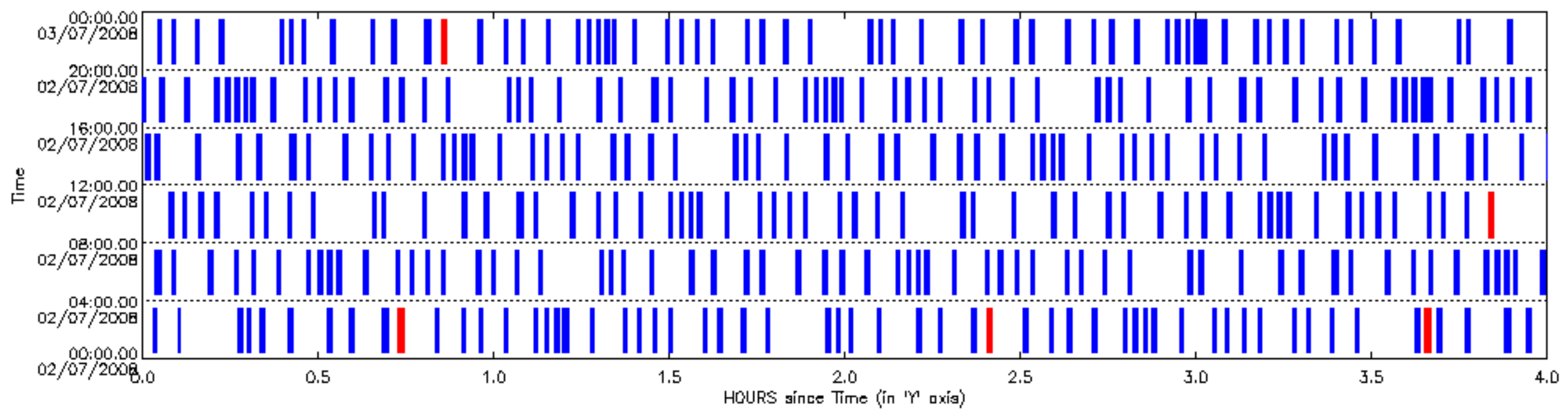
Lower curve: STD of SATU X axis

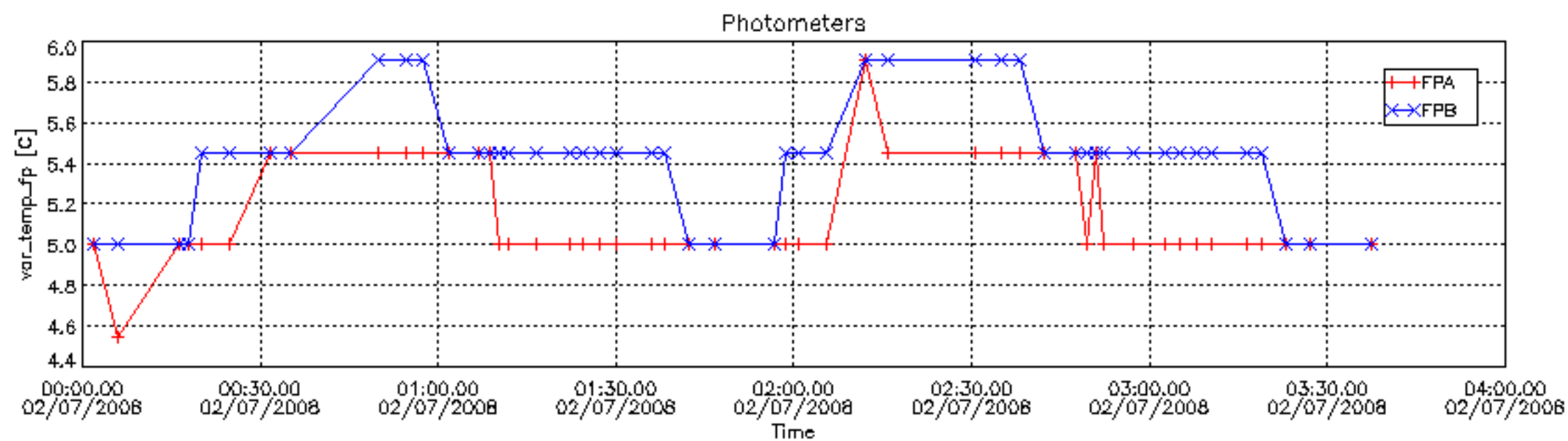
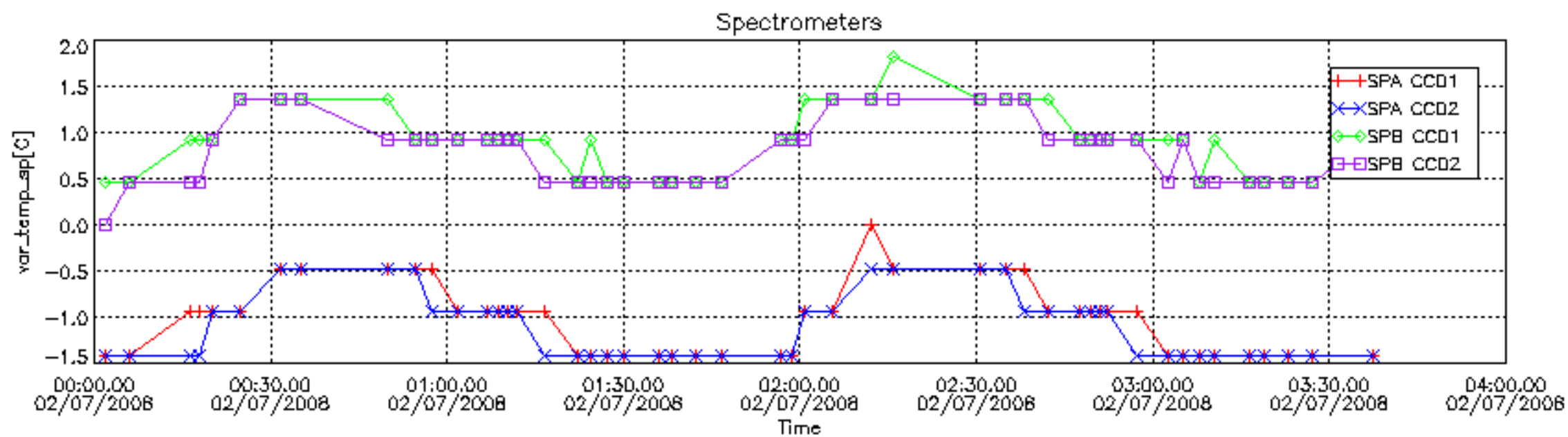


### 8. Auxiliary Data Files used for the production reported in section 2.4

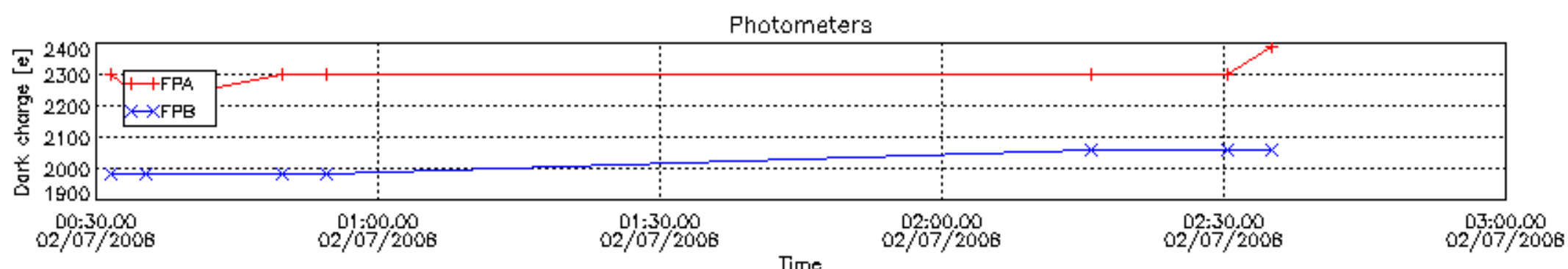
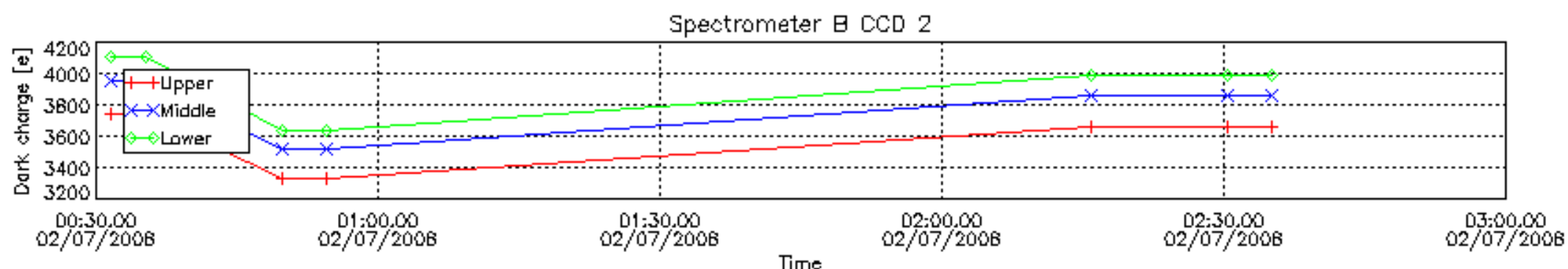
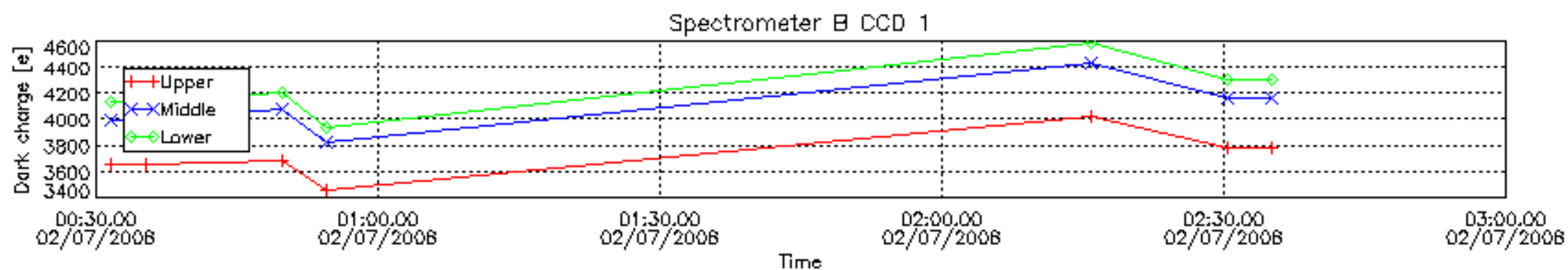
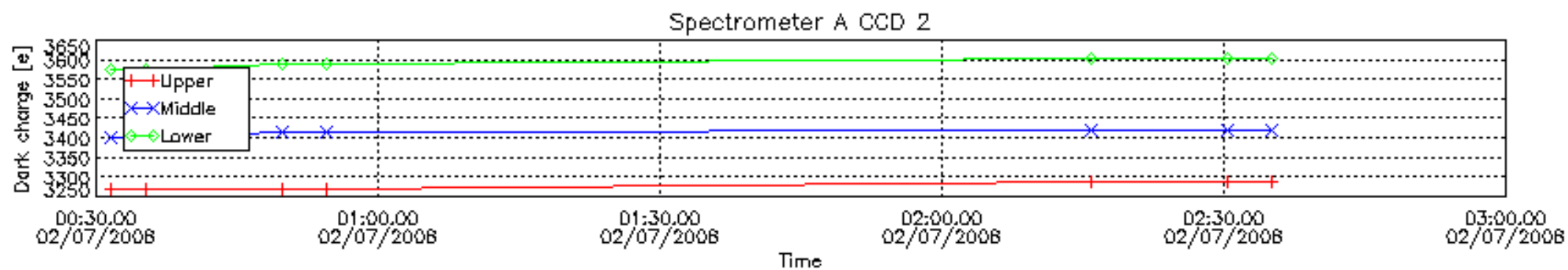
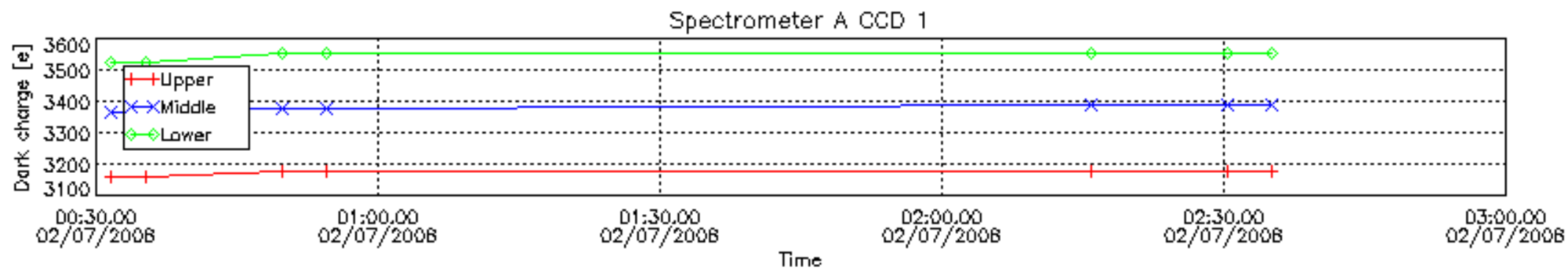
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

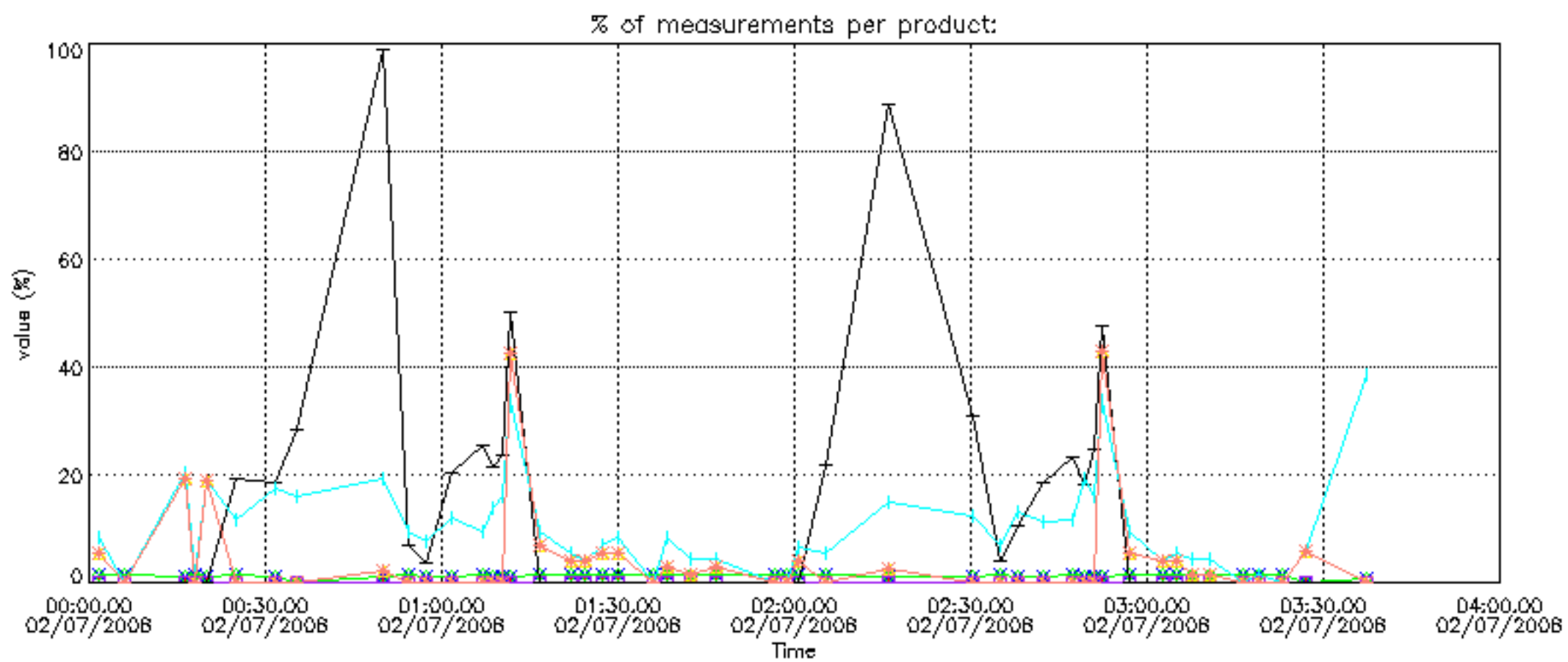
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-JUL-2008 00:01:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080630_090115_20080628_000000_20100101_000000	1	02-JUL-2008 00:01:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-JUL-2008 00:01:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-JUL-2008 00:01:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-JUL-2008 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20080701_072112_20080701_210000_20080702_090000	1	02-JUL-2008 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20080701_200116_20080702_030000_20080702_150000	49	02-JUL-2008 03:37:23
OPTIONAL_ECMWF_FILE	MISSING	1	02-JUL-2008 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080701_211110_000057382070_00014_33134_5867.N1	1	02-JUL-2008 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080701_225207_000060572070_00015_33135_5868.N1	9	02-JUL-2008 00:49:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080702_003304_000054192070_00016_33136_5869.N1	30	02-JUL-2008 02:12:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080702_020843_000044632070_00017_33137_5870.N1	49	02-JUL-2008 03:37:23



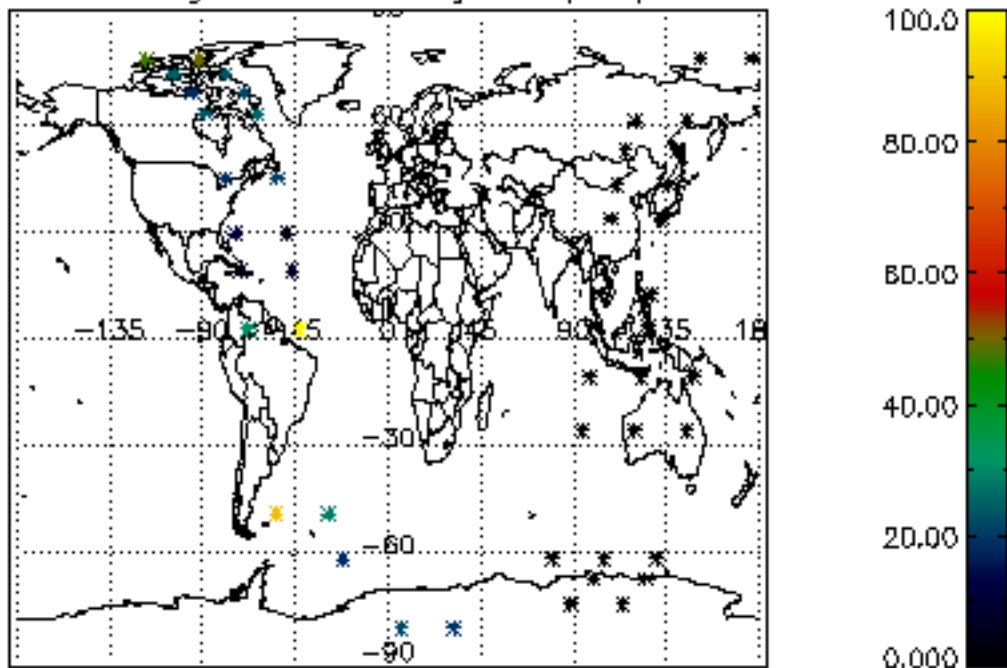




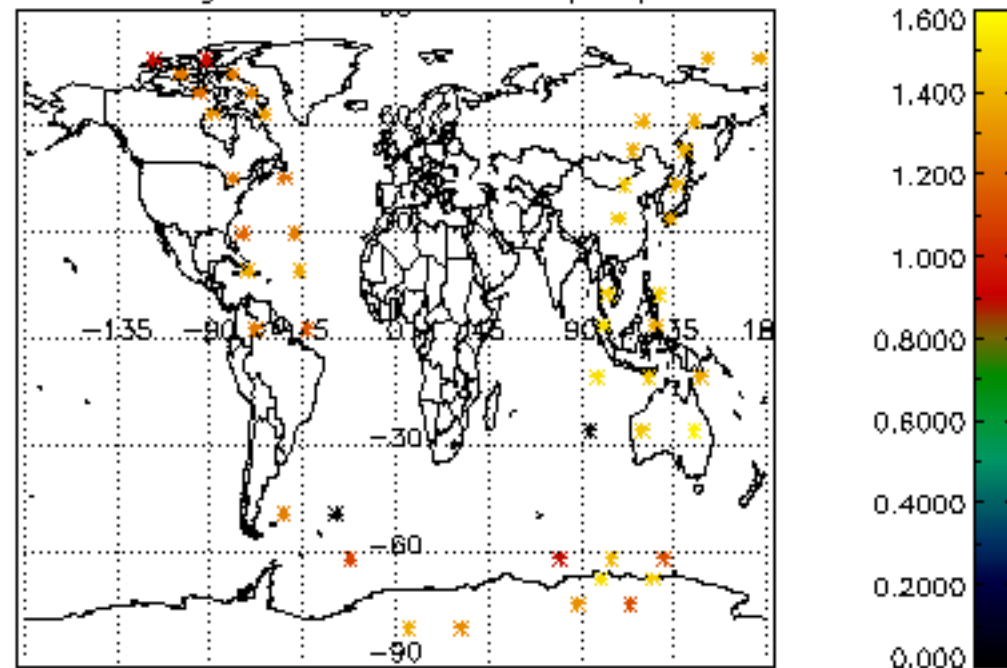




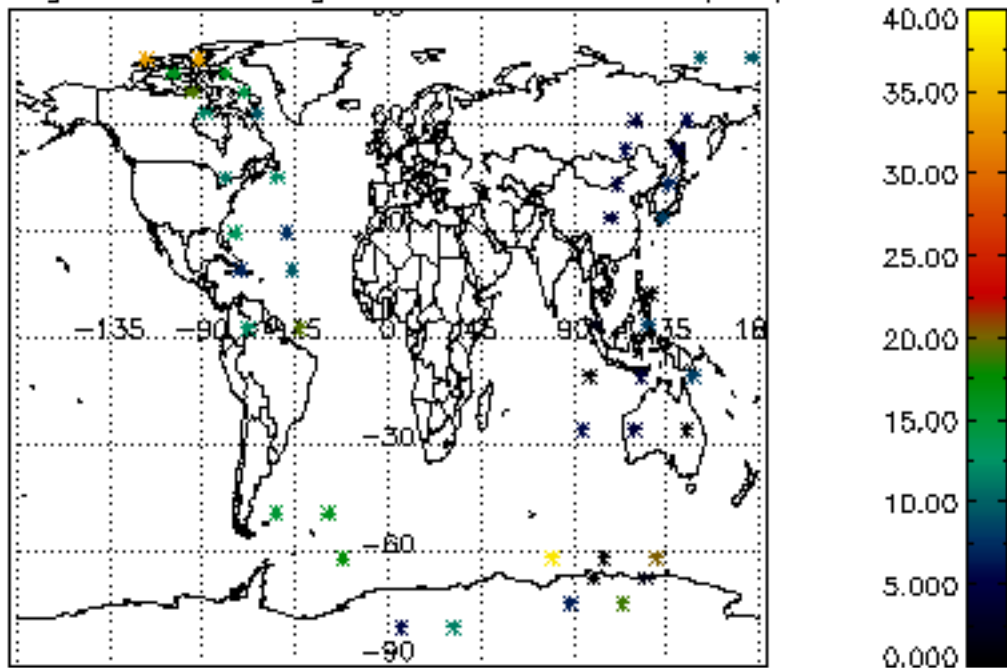
Percentage of cosmic ray hits per profile



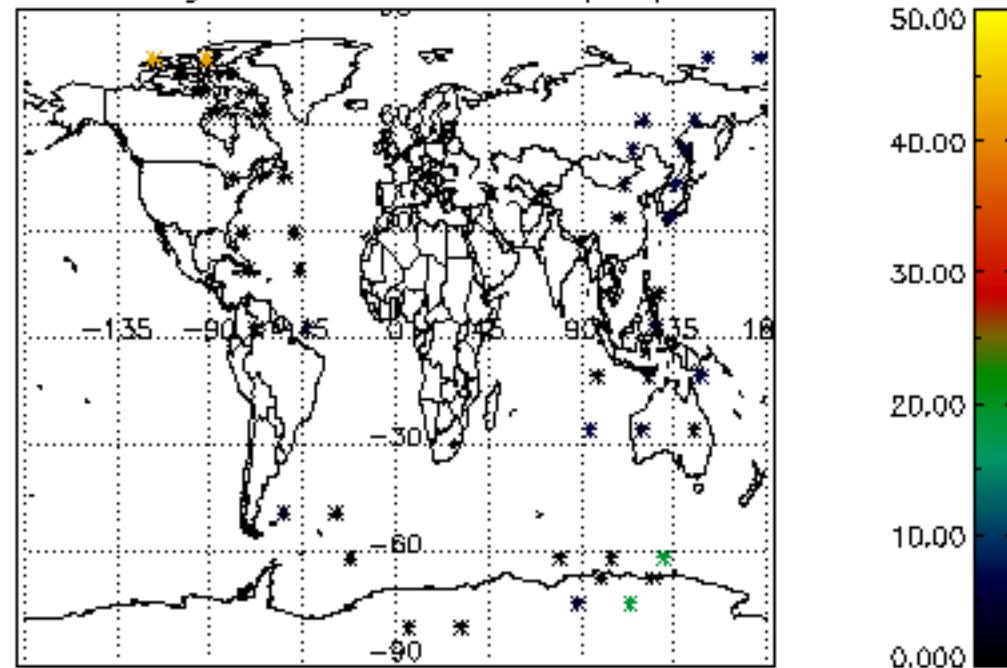
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

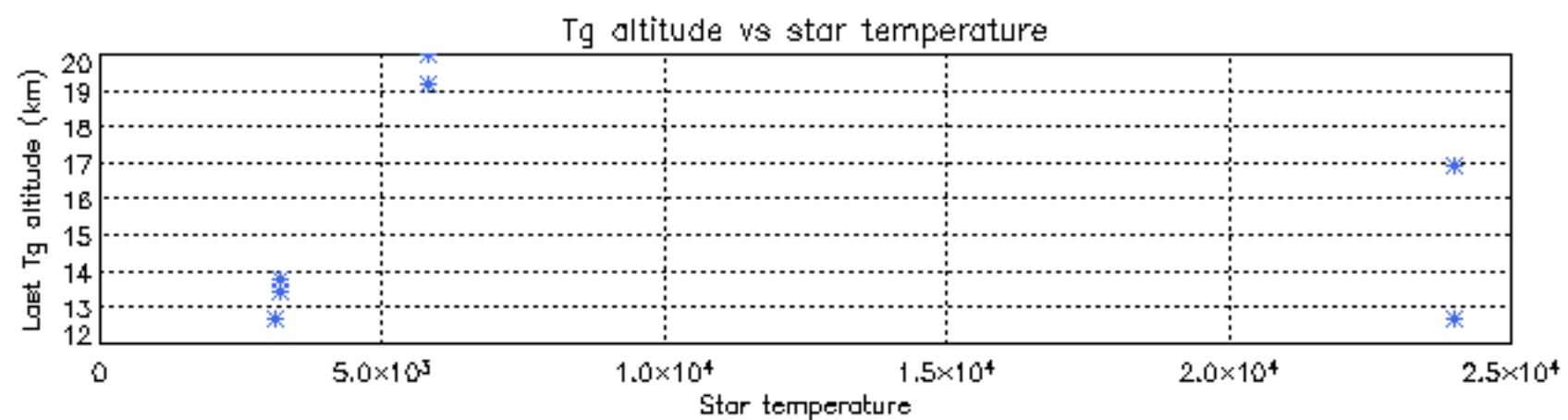
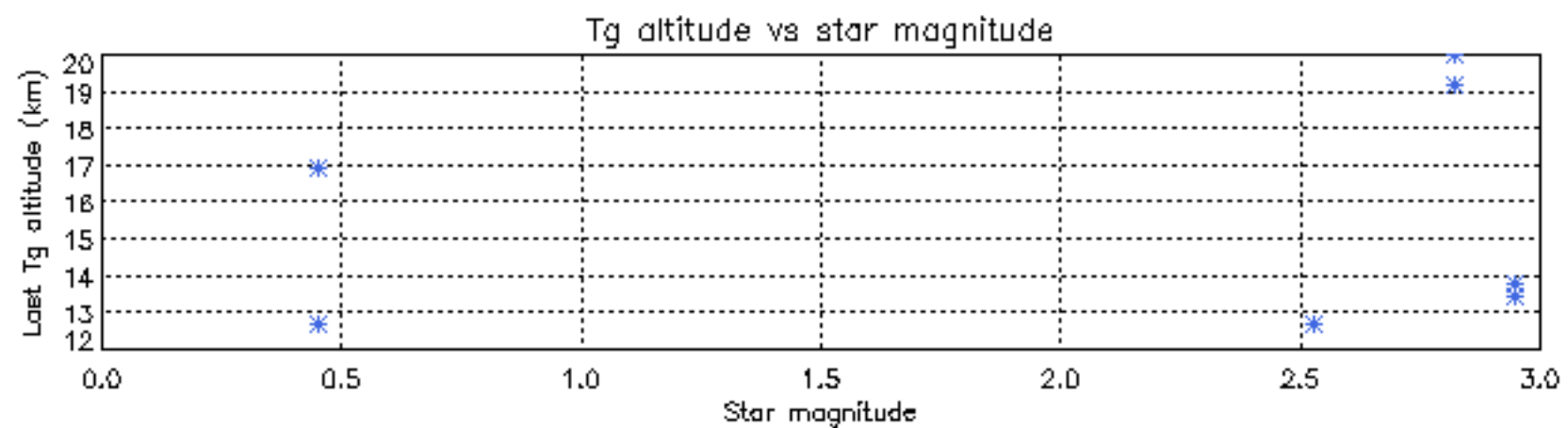
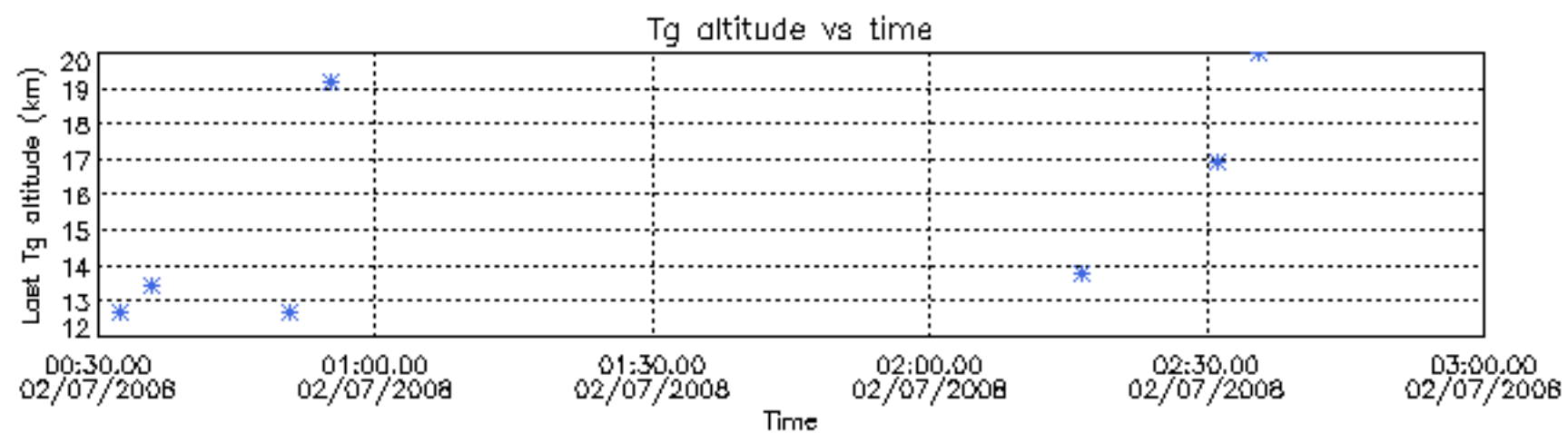


Percentage of saturation errors per profile

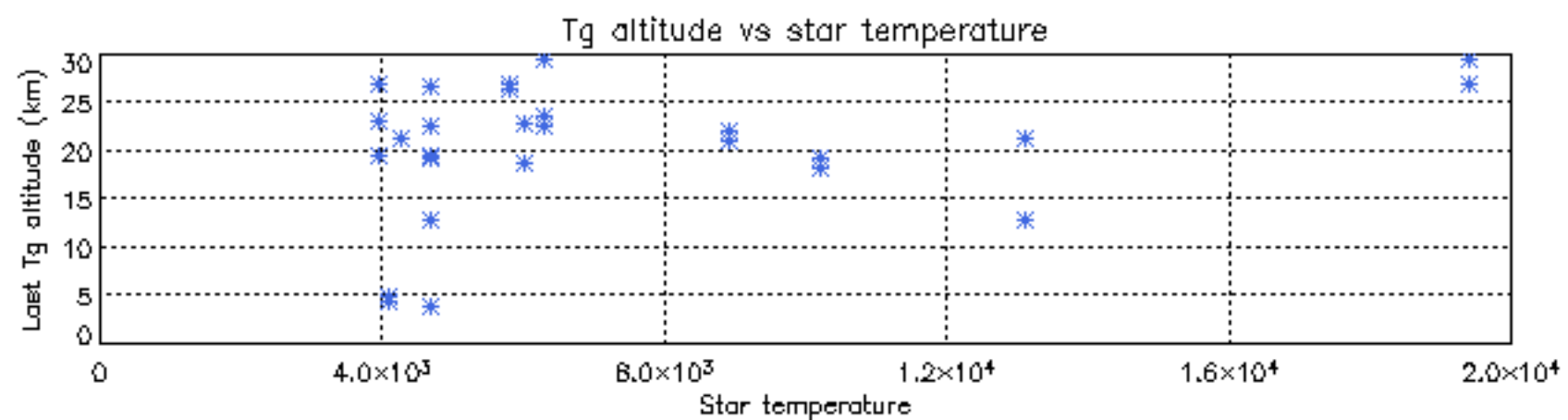
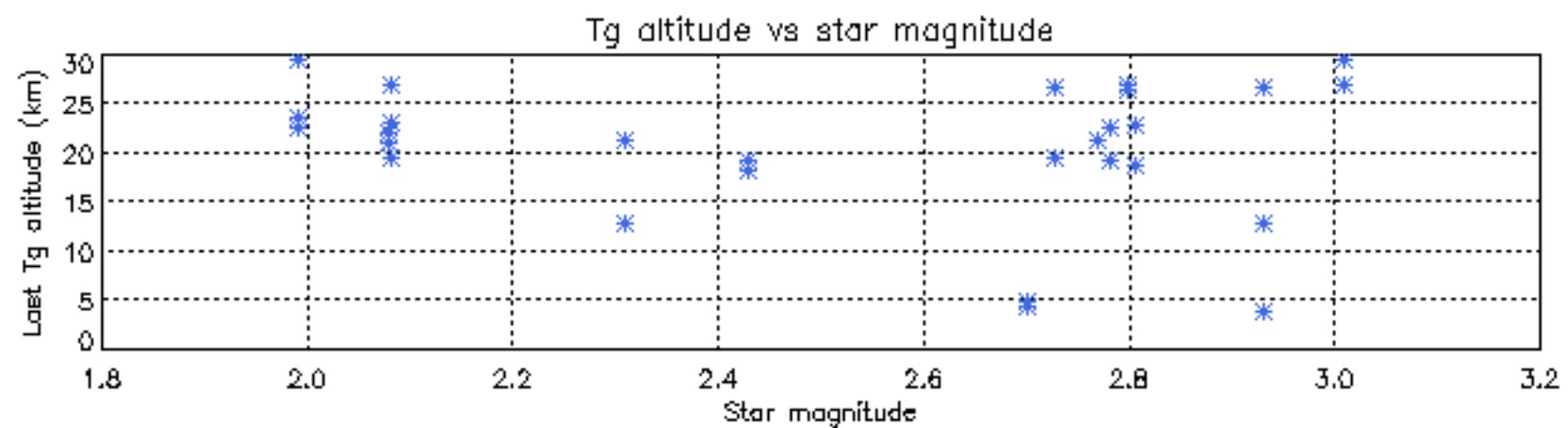
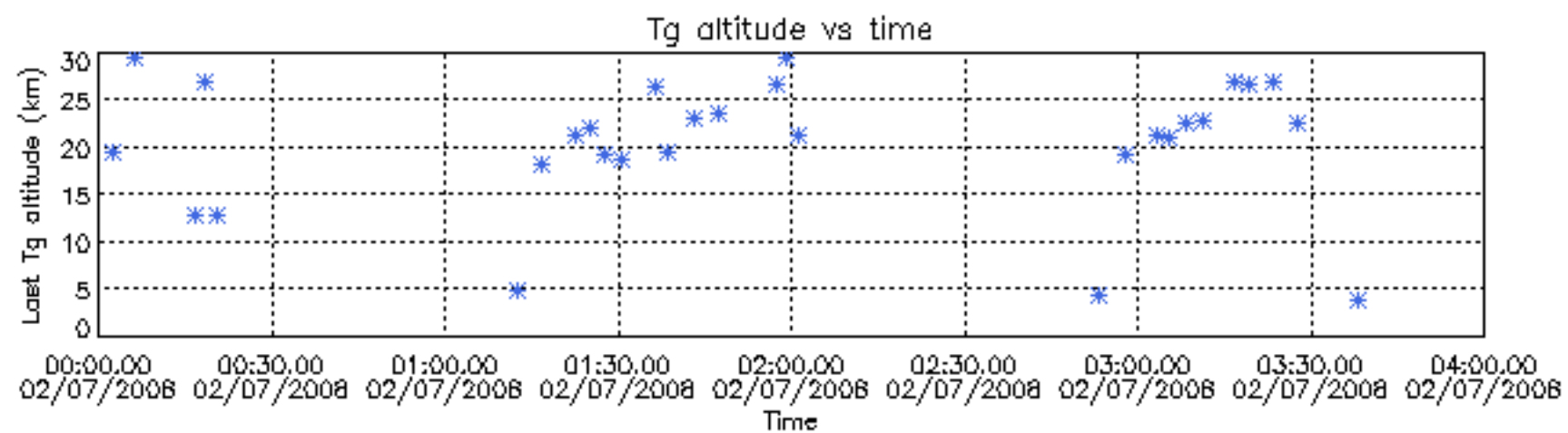




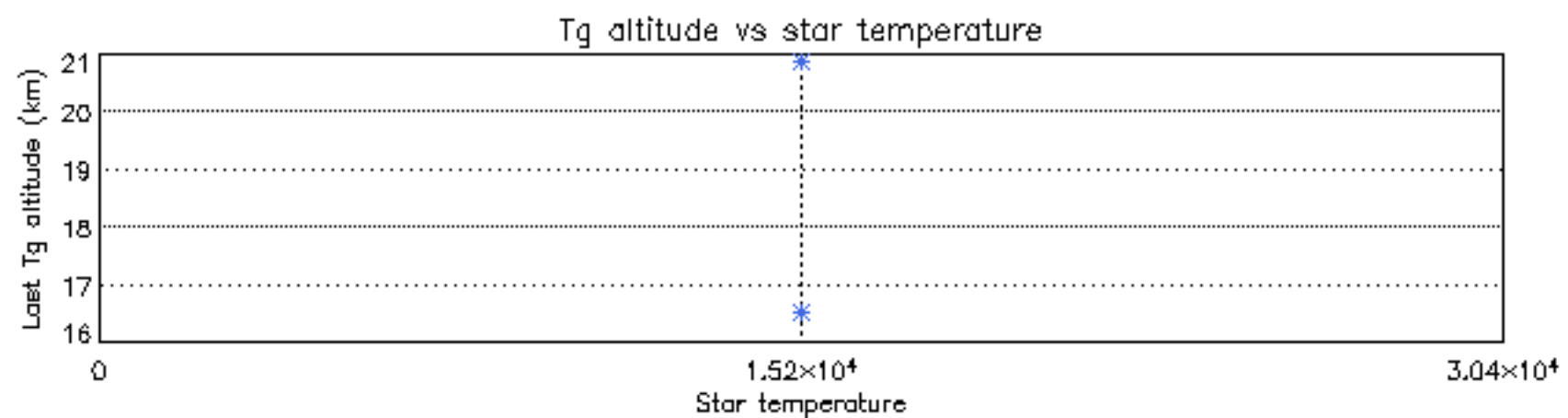
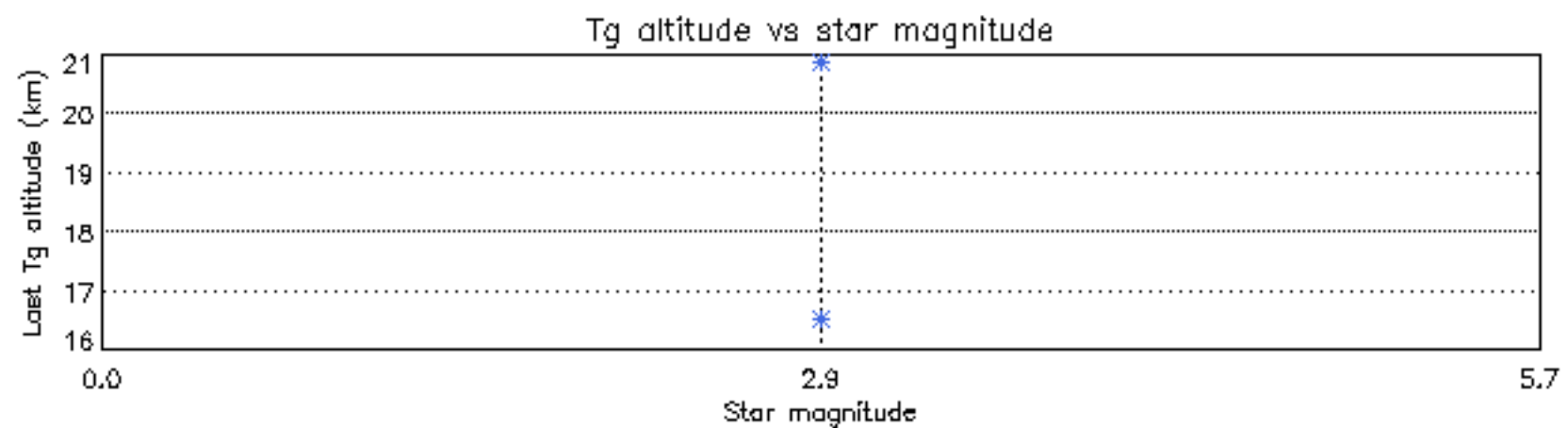
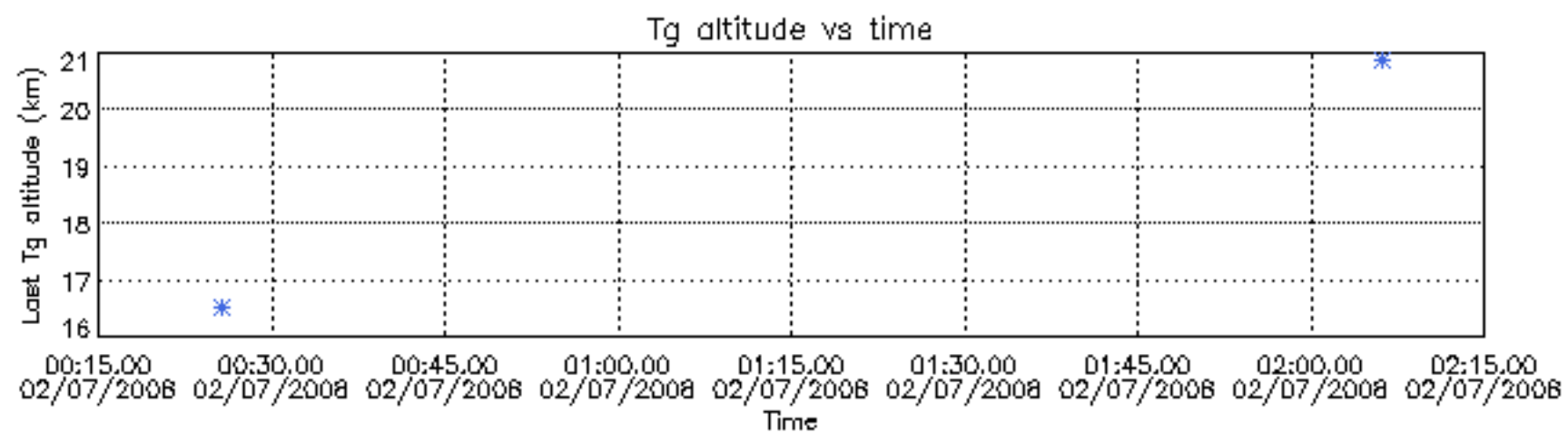
Tangent altitude at which the star is lost



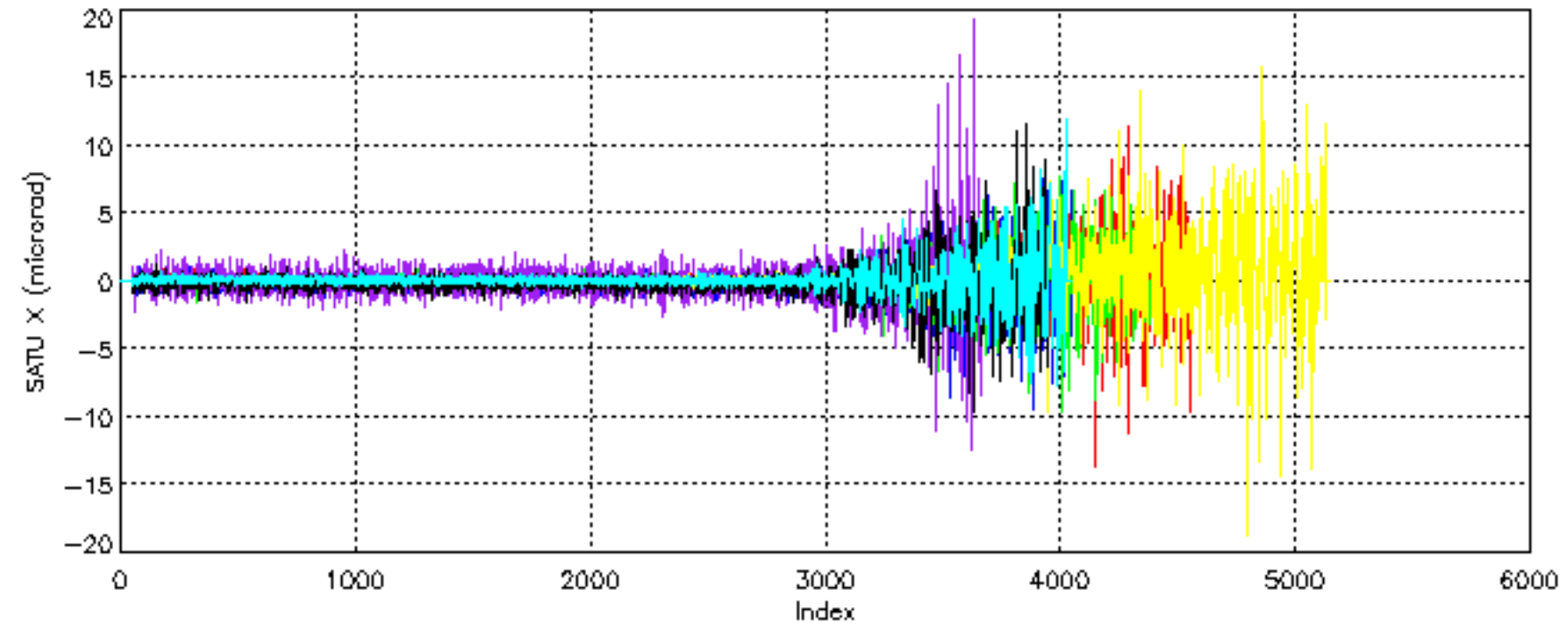
Tangent altitude at which the star is lost

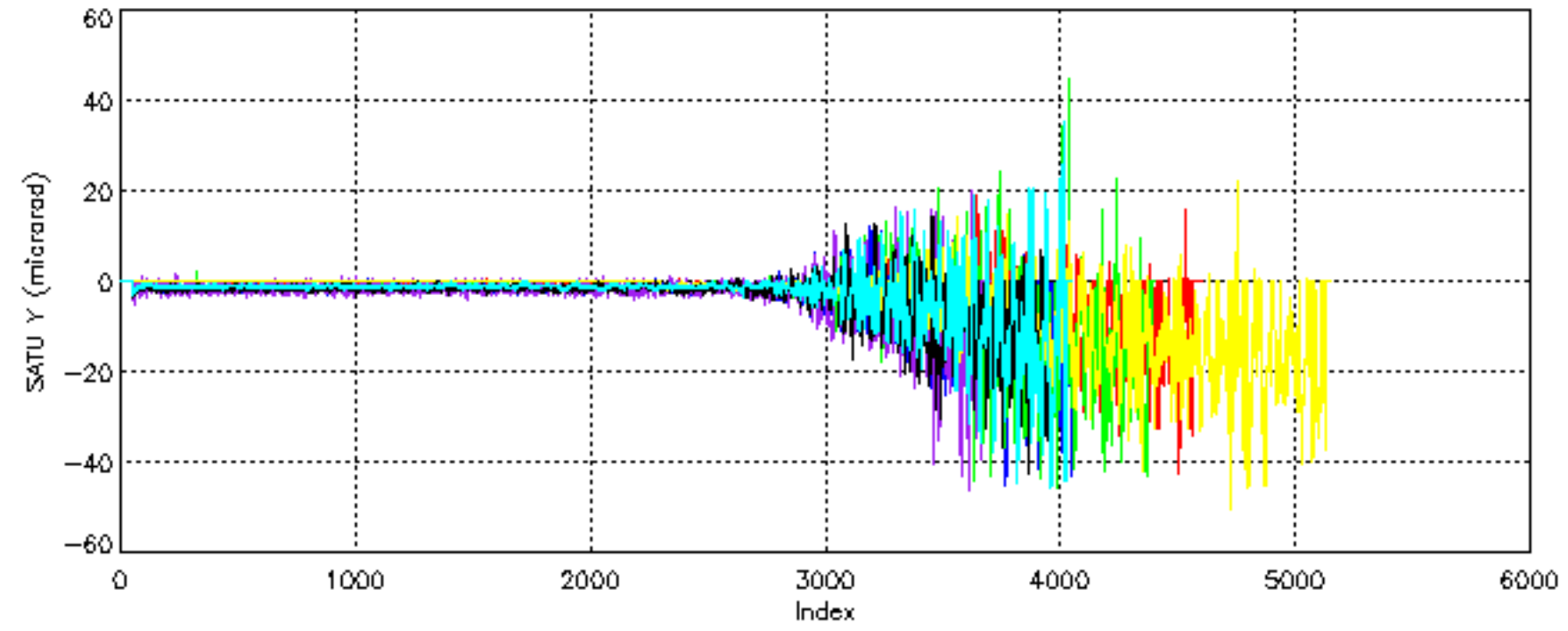


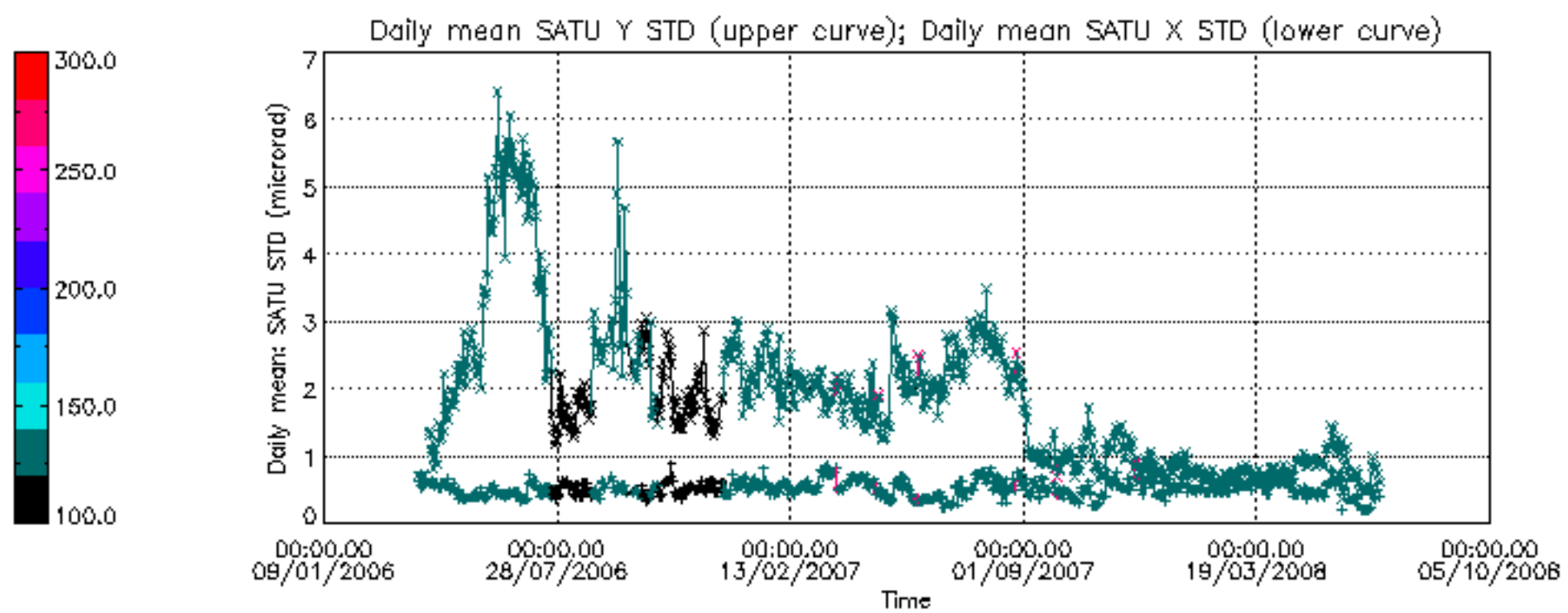
Tangent altitude at which the star is lost











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 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134  
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 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134  
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 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134  
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 6; 754.5; 01-JUL-2008 23:21:04; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33136  
 7; 1066.6; 01-JUL-2008 23:26:16; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33136  
 8; 1175.1; 01-JUL-2008 23:28:05; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33136  
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 11; 1645.8; 01-JUL-2008 23:35:56; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33136  
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 18; 3194.3; 02-JUL-2008 00:01:44; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33136  
 19; 3445.5; 02-JUL-2008 00:05:55; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33136



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 3; 751.1; 01-JUL-2008 09:56:13; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33128
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 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
 6; 1274.0; 01-JUL-2008 10:04:56; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33128
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 4; 2122.5; 01-JUL-2008 10:19:05; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33128
 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
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 5; 2663.2; 29-JUL-2008 15:50:01; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33532  
 6; 2792.7; 29-JUL-2008 15:52:11; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;33532  
 7; 3104.6; 29-JUL-2008 15:57:23; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33532  
 8; 3441.5; 29-JUL-2008 16:03:00; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33532  
 9; 4200.5; 29-JUL-2008 16:15:39; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33532  
 10; 4510.0; 29-JUL-2008 16:20:48; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33532  
 11; 4633.1; 29-JUL-2008 16:22:51; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33532  
 12; 4778.5; 29-JUL-2008 16:25:17; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33532  
 13; 4900.2; 29-JUL-2008 16:27:18; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;33532  
 14; 5015.1; 29-JUL-2008 16:29:13; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;33532  
 15; 5160.3; 29-JUL-2008 16:31:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;33532  
 16; 5293.3; 29-JUL-2008 16:33:51; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33532  
 17; 5713.7; 29-JUL-2008 16:40:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33532  
 18; 5984.3; 29-JUL-2008 16:45:22; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33532  
 19; 6322.9; 29-JUL-2008 16:51:01; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;33532  
 20; 6741.5; 29-JUL-2008 16:58:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33532  
 21; 6939.8; 29-JUL-2008 17:01:18; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33532  
 22; 7129.5; 29-JUL-2008 17:04:28; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33532

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1;	1093.5;	29-JUL-2008	17:04:28;	Dark	;	46.5;	172;	Gam Gru	;	3.00;	13100;occ;	93;	0;	33533
2;	1551.5;	29-JUL-2008	17:12:06;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33533
3;	2062.0;	29-JUL-2008	17:20:36;	Bright;	;	40.0;	11;	53Alp Aql	;	0.76;	8000;occ;	80;	0;	33533
4;	2143.8;	29-JUL-2008	17:21:58;	Bright;	;	34.0;	168;	17Zet Aql	;	2.99;	11000;occ;	68;	0;	33533
5;	2568.4;	29-JUL-2008	17:29:02;	Bright;	;	38.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	76;	0;	33533
6;	2662.8;	29-JUL-2008	17:30:37;	Bright;	;	42.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	84;	0;	33533
7;	2792.8;	29-JUL-2008	17:32:47;	Bright;	;	37.0;	69;	33Gam Dra	;	2.23;	3800;occ;	74;	0;	33533
8;	3104.3;	29-JUL-2008	17:37:58;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33533
9;	3441.6;	29-JUL-2008	17:43:36;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33533
10;	4200.5;	29-JUL-2008	17:56:15;	Bright;	;	41.5;	6;	13Alp Aur	;	0.08;	3400;occ;	83;	0;	33533
11;	4510.1;	29-JUL-2008	18:01:24;	Dark	;	43.0;	28;	12Bet Tau	;	1.65;	15200;occ;	86;	0;	33533
12;	4633.4;	29-JUL-2008	18:03:27;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33533
13;	4778.8;	29-JUL-2008	18:05:53;	Dark	;	44.0;	13;	87Alp Tau	;	0.87;	3800;occ;	88;	0;	33533
14;	4900.5;	29-JUL-2008	18:07:55;	Dark	;	42.0;	27;	24Gam Ori	;	1.64;	26000;occ;	84;	0;	33533
15;	5015.4;	29-JUL-2008	18:09:49;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	33533
16;	5160.7;	29-JUL-2008	18:12:15;	Dark	;	39.5;	7;	19Bet Ori	;	0.10;	14000;occ;	79;	0;	33533
17;	5293.6;	29-JUL-2008	18:14:28;	Dark	;	38.5;	101;	11Alp Lep	;	2.58;	7000;occ;	77;	0;	33533
18;	5714.4;	29-JUL-2008	18:21:28;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33533
19;	5985.2;	29-JUL-2008	18:25:59;	Dark	;	48.0;	157;	The1Eri	;	2.91;	9300;occ;	96;	0;	33533
20;	6323.6;	29-JUL-2008	18:31:38;	Dark	;	45.0;	9;	Alp Eri	;	0.45;	24000;occ;	90;	0;	33533
21;	6741.8;	29-JUL-2008	18:38:36;	Dark	;	39.5;	148;	Alp Tuc	;	2.88;	4100;occ;	79;	0;	33533
22;	6940.4;	29-JUL-2008	18:41:54;	Dark	;	49.5;	31;	Alp Gru	;	1.73;	15200;occ;	99;	0;	33533

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1;	1094.0;	29-JUL-2008	18:45:04;	Dark	;	46.0;	172;	Gam Gru	;	3.00;	13100;occ;	92;	0;	33534
2;	1551.6;	29-JUL-2008	18:52:42;	Bright;	;	37.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	75;	0;	33534
3;	2061.9;	29-JUL-2008	19:01:12;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33534
4;	2143.9;	29-JUL-2008	19:02:34;	Bright;	;	35.5;	168;	17Zet Aql	;	2.99;	11000;occ;	71;	0;	33534
5;	2568.5;	29-JUL-2008	19:09:39;	Bright;	;	37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	33534
6;	2662.3;	29-JUL-2008	19:11:12;	Bright;	;	41.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	83;	0;	33534
7;	2793.0;	29-JUL-2008	19:13:23;	Bright;	;	25.0;	69;	33Gam Dra	;	2.23;	3800;occ;	50;	0;	33534
8;	3103.7;	29-JUL-2008	19:18:34;	Bright;	;	40.5;	89;	5Alp Cep	;	2.45;	8000;occ;	81;	0;	33534
9;	3441.5;	29-JUL-2008	19:24:12;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	33534
10;	4200.4;	29-JUL-2008	19:36:50;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;occ;	85;	0;	33534
11;	4510.1;	29-JUL-2008	19:42:00;	Dark	;	48.0;	28;	12Bet Tau	;	1.65;	15200;occ;	96;	0;	33534
12;	4633.5;	29-JUL-2008	19:44:04;	Dark	;	37.5;	176;	23Zet Tau	;	3.02;	22000;occ;	75;	0;	33534
13;	4779.2;	29-JUL-2008	19:46:29;	Dark	;	48.5;	13;	87Alp Tau	;	0.87;	3800;occ;	97;	0;	33534
14;	4900.7;	29-JUL-2008	19:48:31;	Dark	;	39.5;	27;	24Gam Ori	;	1.64;	26000;occ;	79;	0;	33534
15;	5015.7;	29-JUL-2008	19:50:26;	Dark	;	37.0;	30;	46Eps Ori	;	1.69;	30000;occ;	74;	0;	33534
16;	5161.1;	29-JUL-2008	19:52:51;	Dark	;	39.0;	7;	19Bet Ori	;	0.10;	14000;occ;	78;	0;	33534
17;	5293.9;	29-JUL-2008	19:55:04;	Dark	;	42.0;	101;	11Alp Lep	;	2.58;	7000;occ;	84;	0;	33534
18;	5715.0;	29-JUL-2008	20:02:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33534
19;	5986.0;	29-JUL-2008	20:06:36;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33534
20;	6324.2;	29-JUL-2008	20:12:14;	Dark	;	53.5;	9;	Alp Eri	;	0.45;	24000;occ;	107;	0;	33534
21;	6742.2;	29-JUL-2008	20:19:12;	Dark	;	40.5;	148;	Alp Tuc	;	2.88;	4100;occ;	81;	0;	33534
22;	6940.8;	29-JUL-2008	20:22:31;	Dark	;	44.0;	31;	Alp Gru	;	1.73;	15200;occ;	88;	0;	33534

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1;	-741.8;	29-JUL-2008	21:35:40;	Dark	;	42.5;	101;	11Alp Lep	;	2.58;	7000;occ;	85;	0;	33535
2;	-320.3;	29-JUL-2008	21:42:42;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	33535
3;	-49.0;	29-JUL-2008	21:47:13;	Dark	;	46.5;	157;	The1Eri	;	2.91;	9300;occ;	93;	0;	33535
4;	288.9;	29-JUL-2008	21:52:51;	Dark	;	45.5;	9;	Alp Eri	;	0.45;	24000;occ;	91;	0;	33536
5;	706.7;	29-JUL-2008	21:59:49;	Dark	;	39.0;	148;	Alp Tuc	;	2.88;	4100;occ;	78;	0;	33536
6;	905.4;	29-JUL-2008	22:03:07;	Dark	;	51.5;	31;	Alp Gru	;	1.73;	15200;occ;	103;	0;	33536
7;	1095.1;	29-JUL-2008	22:06:17;	Dark	;	45.5;	172;	Gam Gru	;	3.00;	13100;occ;	91;	0;	33536
8;	1552.0;	29-JUL-2008	22:13:54;	Bright;	;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	33536
9;	2061.6;	29-JUL-2008	22:22:24;	Bright;	;	37.5;	11;	53Alp Aql	;	0.76;	8000;occ;	75;	0;	33536
10;	2143.9;	29-JUL-2008	22:23:46;	Bright;	;	35.0;	168;	17Zet Aql	;	2.99;	11000;occ;	70;	0;	33536
11;	2568.5;	29-JUL-2008	22:30:50;	Bright;	;	36.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	72;	0;	33536
12;	2661.4;	29-JUL-2008	22:32:23;	Bright;	;	39.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	78;	0;	33536
13;	3102.7;	29-JUL-2008	22:39:45;	Bright;	;	39.0;	89;	5Alp Cep	;	2.45;	8000;occ;	78;	0;	33536
14;	3441.4;	29-JUL-2008	22:45:23;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	33536
15;	4200.4;	29-JUL-2008	22:58:02;	Bright;	;	55.0;	6;	13Alp Aur	;	0.08;	3400;occ;	110;	0;	33536
16;	4510.4;	29-JUL-2008	23:03:12;	Dark	;	39.5;	28;	12Bet Tau	;	1.65;	15200;occ;	79;	0;	33536
17;	4633.9;	29-JUL-2008	23:05:16;	Dark	;	38.5;	176;	23Zet Tau	;	3.02;	22000;occ;	77;	0;	33536
18;	4779.8;	29-JUL-2008	23:07:42;	Dark	;	54.5;	13;	87Alp Tau	;	0.87;	3800;occ;	109;	0;	33536
19;	4901.3;	29-JUL-2008	23:09:43;	Dark	;	38.5;	27;	24Gam Ori	;	1.64;	26000;occ;	77;	0;	33536
20;	5016.2;	29-JUL-2008	23:11:38;	Dark	;	38.5;	30;	46Eps Ori	;	1.69;	30000;occ;	77;	0;	33536
21;	5161.7;	29-JUL-2008	23:14:04;	Dark	;	48.0;	7;	19Bet Ori	;	0.10;	14000;occ;	96;	0;	33536



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3; -48.0; 29-JUL-2008 23:27:50; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33536
4; 289.6; 29-JUL-2008 23:33:27; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33537
5; 707.1; 29-JUL-2008 23:40:25; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33537
6; 905.9; 29-JUL-2008 23:43:44; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;33537
7; 1095.5; 29-JUL-2008 23:46:53; Dark ; 45.0; 172; Gam Gru ; 3.00; 13100;occ; 90; 0;33537
8; 1552.2; 29-JUL-2008 23:54:30; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;33537
9; 2061.5; 30-JUL-2008 00:02:59; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33537
10; 2144.0; 30-JUL-2008 00:04:22; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33537
11; 2568.5; 30-JUL-2008 00:11:26; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;33537
12; 2660.9; 30-JUL-2008 00:12:59; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33537
13; 3102.2; 30-JUL-2008 00:20:20; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33537
14; 3441.3; 30-JUL-2008 00:25:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33537
15; 4200.5; 30-JUL-2008 00:38:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33537
16; 4510.6; 30-JUL-2008 00:43:48; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33537
17; 4634.1; 30-JUL-2008 00:45:52; Dark ; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;33537
18; 4780.2; 30-JUL-2008 00:48:18; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33537
19; 4901.6; 30-JUL-2008 00:50:19; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33537
20; 5016.5; 30-JUL-2008 00:52:14; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33537
21; 5162.1; 30-JUL-2008 00:54:40; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;33537
22; 5294.8; 30-JUL-2008 00:56:53; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;33537
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2; -319.0; 30-JUL-2008 01:03:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33537
3; -47.2; 30-JUL-2008 01:08:26; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;33537
4; 290.3; 30-JUL-2008 01:14:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33538
5; 707.6; 30-JUL-2008 01:21:01; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;33538
6; 906.4; 30-JUL-2008 01:24:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;33538
7; 1095.8; 30-JUL-2008 01:27:29; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33538
8; 1552.2; 30-JUL-2008 01:35:06; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33538
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10; 2144.0; 30-JUL-2008 01:44:58; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33538
11; 2568.6; 30-JUL-2008 01:52:02; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33538
12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
14; 3441.4; 30-JUL-2008 02:06:35; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33538
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2; -1525.1; 30-JUL-2008 02:24:24; Dark ; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;33538
3; -1401.6; 30-JUL-2008 02:26:28; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33538
4; -1255.3; 30-JUL-2008 02:28:54; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;33538
5; -1134.0; 30-JUL-2008 02:30:56; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;33538
6; -1019.0; 30-JUL-2008 02:32:51; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;33538
7; -873.2; 30-JUL-2008 02:35:16; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33538
8; -318.3; 30-JUL-2008 02:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33538
9; -46.1; 30-JUL-2008 02:49:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;33538
10; 291.0; 30-JUL-2008 02:54:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33539
11; 708.1; 30-JUL-2008 03:01:38; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33539
12; 907.0; 30-JUL-2008 03:04:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33539
13; 1096.4; 30-JUL-2008 03:08:06; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33539
14; 1552.6; 30-JUL-2008 03:15:42; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;33539
15; 2061.4; 30-JUL-2008 03:24:11; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33539
16; 2144.1; 30-JUL-2008 03:25:34; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33539
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7; 3441.4; 30-JUL-2008 15:31:22; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33546  
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13; 5019.5; 30-JUL-2008 15:57:40; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33546  
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5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552

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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
14; 3095.2; 31-JUL-2008 03:09:48; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33553
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