

# GOMOS Daily Report 13-SEP-2006

## Level 0 and Level 1 products

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### 1. General Info

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	15SEP2006 05:33:01
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (13SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	34
Nb of prods with errors	0

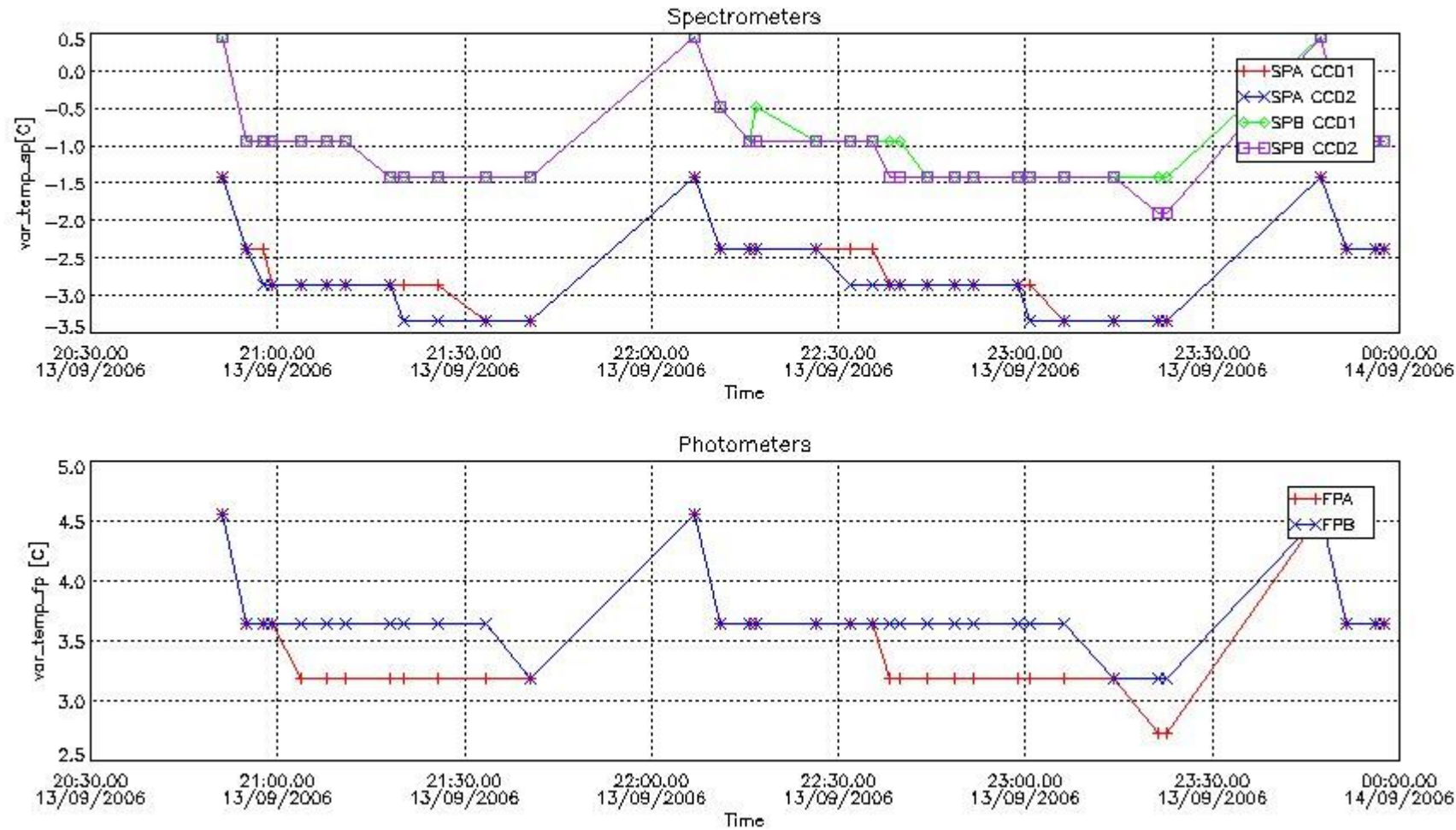
## 2. Summary of products arrived in PCF (Product Control Facility)

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

### 2.2 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_1PNPDE20060913_205113_000000382051_00129_23730_1273.N1	13-SEP-2006 20:51:13	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	23730	No
2	GOM_TRA_1PNPDE20060913_205456_000000392051_00129_23730_1274.N1	13-SEP-2006 20:54:56	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	23730	No
3	GOM_TRA_1PNPDE20060913_205743_000000382051_00129_23730_1275.N1	13-SEP-2006 20:57:43	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23730	No
4	GOM_TRA_1PNPDE20060913_205907_000000432051_00129_23730_1276.N1	13-SEP-2006 20:59:07	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	23730	No
5	GOM_TRA_1PNPDE20060913_210339_000000392051_00129_23730_1277.N1	13-SEP-2006 21:03:39	Twilight	39.000	142	49Del Cap	2.8500	8900.0	78	23730	No
6	GOM_TRA_1PNPDE20060913_210755_000000382051_00129_23730_1278.N1	13-SEP-2006 21:07:55	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	23730	No
7	GOM_TRA_1PNPDE20060913_211055_000000372051_00129_23730_1279.N1	13-SEP-2006 21:10:55	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23730	No
8	GOM_TRA_1PNPDE20060913_211808_000000342051_00129_23730_1280.N1	13-SEP-2006 21:18:08	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	23730	No
9	GOM_TRA_1PNPDE20060913_212014_000000362051_00129_23730_1281.N1	13-SEP-2006 21:20:14	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23730	No
10	GOM_TRA_1PNPDE20060913_212543_000000522051_00129_23730_1282.N1	13-SEP-2006 21:25:43	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	23730	No
11	GOM_TRA_1PNPDE20060913_213325_000000362051_00129_23730_1283.N1	13-SEP-2006 21:33:25	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23730	No
12	GOM_TRA_1PNPDE20060913_214038_000000332051_00129_23730_1284.N1	13-SEP-2006 21:40:38	Bright	33.000	36	50Alp UMa	1.8000	6300.0	66	23730	No
13	GOM_TRA_1PNPDE20060913_220647_000000412051_00129_23730_1274.N1	13-SEP-2006 22:06:47	Dark	41.000	132	15Rho Pup	2.8030	6900.0	82	23730	No
14	GOM_TRA_1PNPDE20060913_221057_000000392051_00129_23730_1275.N1	13-SEP-2006 22:10:57	Dark	39.000	70	Zet Pup	2.2460	39000.	78	23730	No
15	GOM_TRA_1PNPDE20060913_221534_000000412051_00129_23730_1276.N1	13-SEP-2006 22:15:34	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	23730	No
16	GOM_TRA_1PNPDE20060913_221652_000000542051_00130_23731_1277.N1	13-SEP-2006 22:16:52	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	23731	No
17	GOM_TRA_1PNPDE20060913_222615_000000382051_00130_23731_1278.N1	13-SEP-2006 22:26:15	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23731	No
18	GOM_TRA_1PNPDE20060913_223149_000000392051_00130_23731_1279.N1	13-SEP-2006 22:31:49	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23731	No
19	GOM_TRA_1PNPDE20060913_223532_000000422051_00130_23731_1280.N1	13-SEP-2006 22:35:32	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23731	No
20	GOM_TRA_1PNPDE20060913_223819_000000392051_00130_23731_1281.N1	13-SEP-2006 22:38:19	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	23731	No
21	GOM_TRA_1PNPDE20060913_223943_000000462051_00130_23731_1282.N1	13-SEP-2006 22:39:43	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	23731	No
22	GOM_TRA_1PNPDE20060913_224415_000000392051_00130_23731_1283.N1	13-SEP-2006 22:44:15	Twilight	39.000	142	49Del Cap	2.8500	8900.0	78	23731	No
23	GOM_TRA_1PNPDE20060913_224831_000000382051_00130_23731_1284.N1	13-SEP-2006 22:48:31	Bright	37.500	162	34Alp Aqr	2.9440	5350.0	75	23731	No
24	GOM_TRA_1PNPDE20060913_225131_000000362051_00130_23731_1285.N1	13-SEP-2006 22:51:31	Bright	35.500	61	8Eps Peg	2.1000	3900.0	71	23731	No
25	GOM_TRA_1PNPDE20060913_225845_000000362051_00130_23731_1286.N1	13-SEP-2006 22:58:45	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	23731	No
26	GOM_TRA_1PNPDE20060913_230050_000000352051_00130_23731_1287.N1	13-SEP-2006 23:00:50	Bright	34.500	66	37Gam Cyg	2.2080	5900.0	69	23731	No
27	GOM_TRA_1PNPDE20060913_230619_000000372051_00130_23731_1288.N1	13-SEP-2006 23:06:19	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	23731	No
28	GOM_TRA_1PNPDE20060913_231401_000000362051_00130_23731_1289.N1	13-SEP-2006 23:14:01	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23731	No
29	GOM_TRA_1PNPDE20060913_232114_000000372051_00130_23731_1290.N1	13-SEP-2006 23:21:14	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23731	No
30	GOM_TRA_1PNPDE20060913_232240_000000342051_00130_23731_1291.N1	13-SEP-2006 23:22:40	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23731	No
31	GOM_TRA_1PNPDE20060913_234723_000000412051_00130_23731_1278.N1	13-SEP-2006 23:47:23	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	23731	No
32	GOM_TRA_1PNPDE20060913_235134_000000372051_00130_23731_1276.N1	13-SEP-2006 23:51:34	Dark	37.000	70	Zet Pup	2.2460	39000.	74	23731	No
33	GOM_TRA_1PNPDE20060913_235611_000000432051_00130_23731_1277.N1	13-SEP-2006 23:56:11	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	23731	No
34	GOM_TRA_1PNPDE20060913_235729_000000562051_00131_23732_1278.N1	13-SEP-2006 23:57:29	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	23732	No

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



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

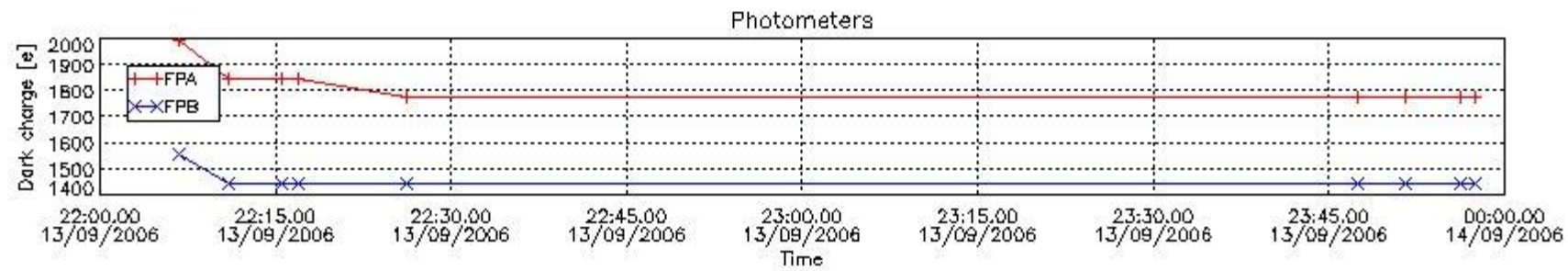
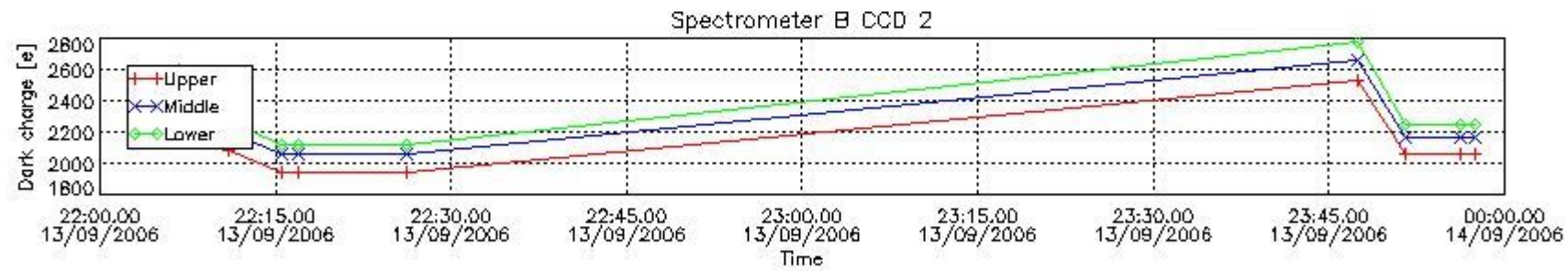
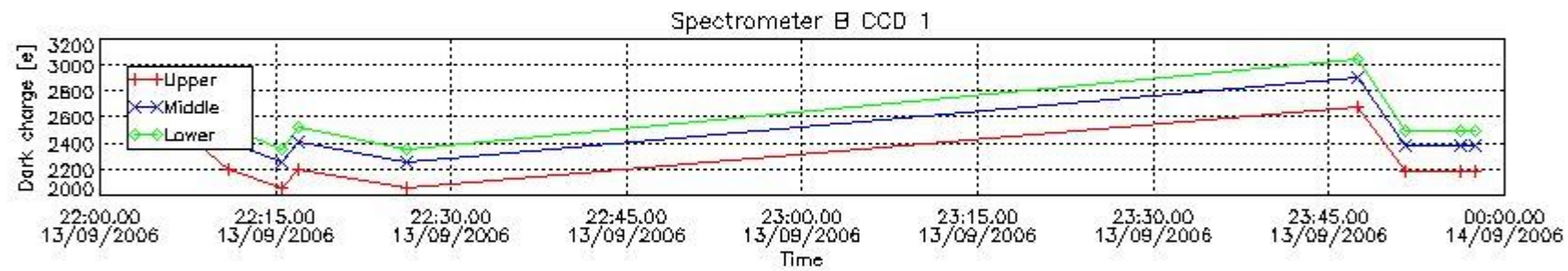
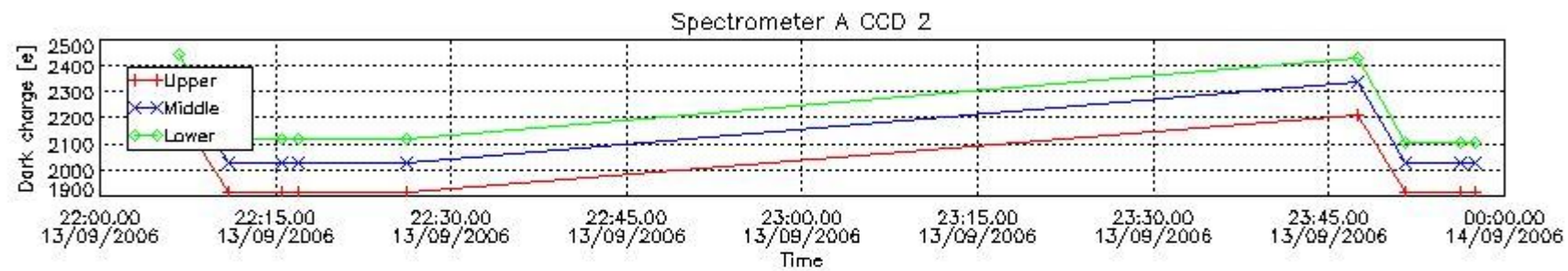
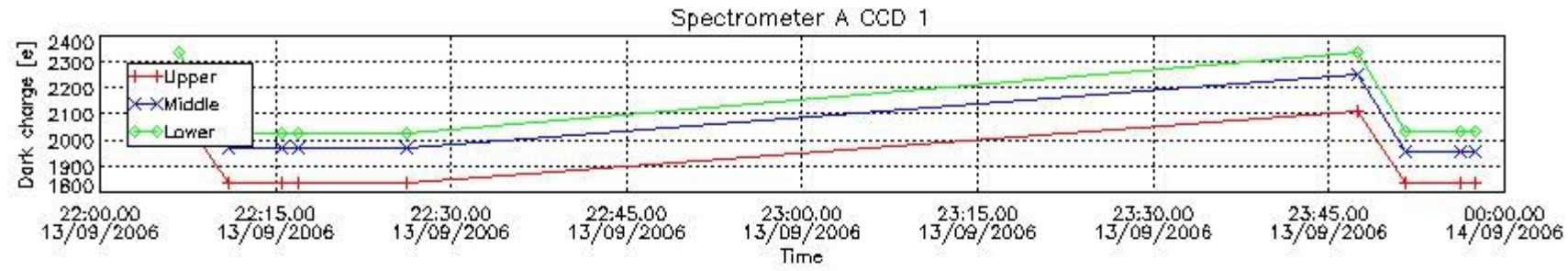
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

Product name	DC information
GOM_TRA_1PNPDE20060913_205113_000000382051_00129_23730_1273.N1	DC map with no T dep.
GOM_TRA_1PNPDE20060913_205456_000000392051_00129_23730_1274.N1	DC map used
GOM_TRA_1PNPDE20060913_205743_000000382051_00129_23730_1275.N1	DC map used
GOM_TRA_1PNPDE20060913_205907_000000432051_00129_23730_1276.N1	DC map used
GOM_TRA_1PNPDE20060913_210339_000000392051_00129_23730_1277.N1	DC map used
GOM_TRA_1PNPDE20060913_210755_000000382051_00129_23730_1278.N1	DC map used
GOM_TRA_1PNPDE20060913_211055_000000372051_00129_23730_1279.N1	DC map used
GOM_TRA_1PNPDE20060913_211808_000000342051_00129_23730_1280.N1	DC map used
GOM_TRA_1PNPDE20060913_212014_000000362051_00129_23730_1281.N1	DC map used
GOM_TRA_1PNPDE20060913_212543_000000522051_00129_23730_1282.N1	DC map used
GOM_TRA_1PNPDE20060913_213325_000000362051_00129_23730_1283.N1	DC map used
GOM_TRA_1PNPDE20060913_214038_000000332051_00129_23730_1284.N1	DC map used

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



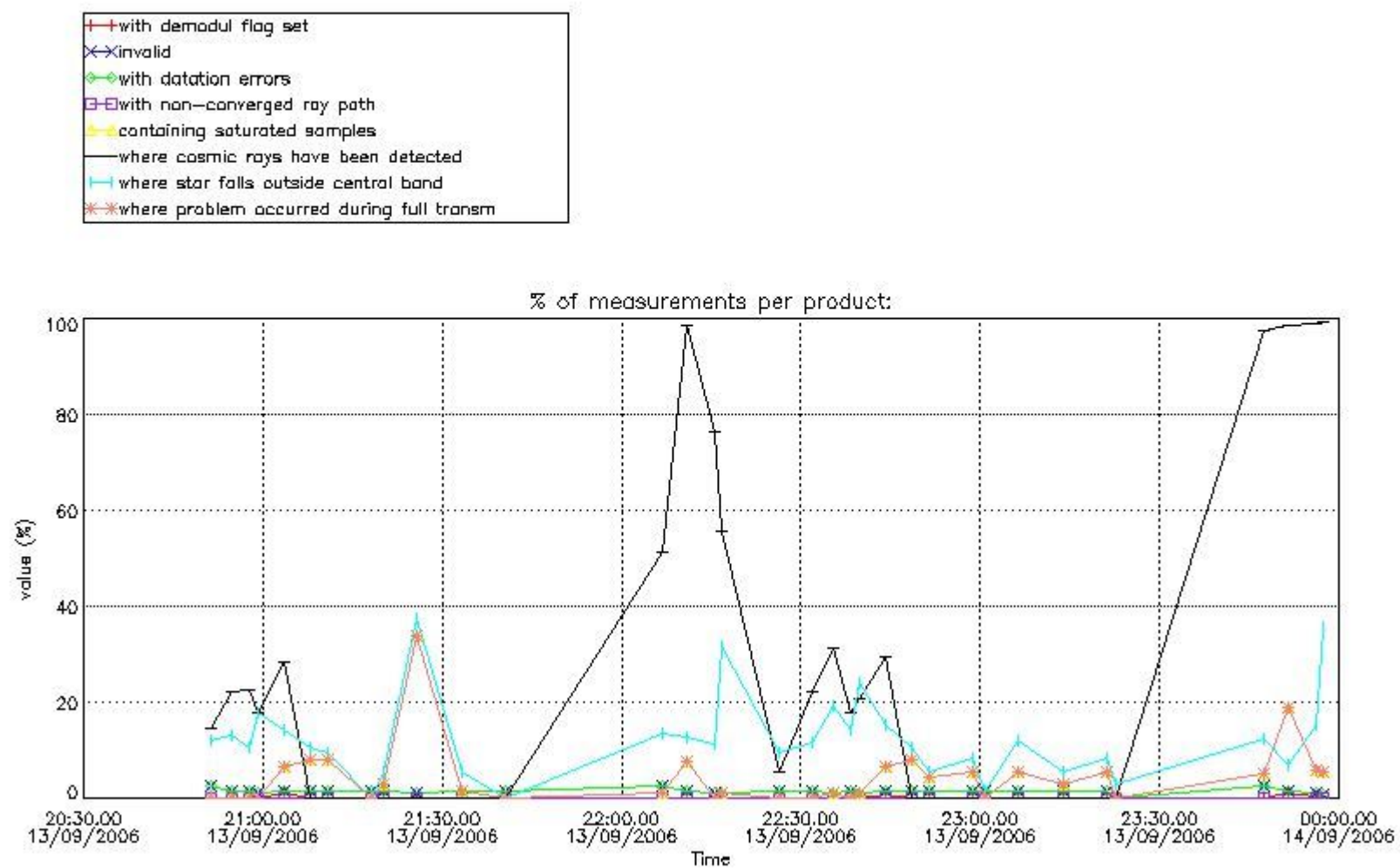
## 5. Demodulation flag and quality information monitoring

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

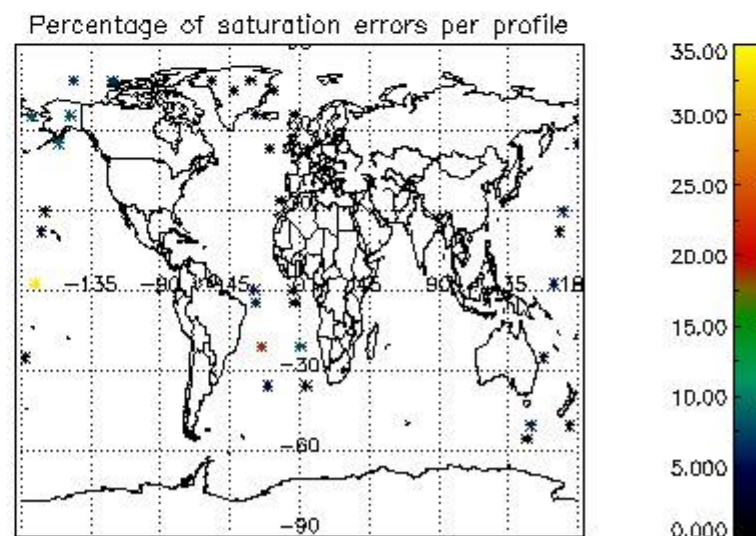
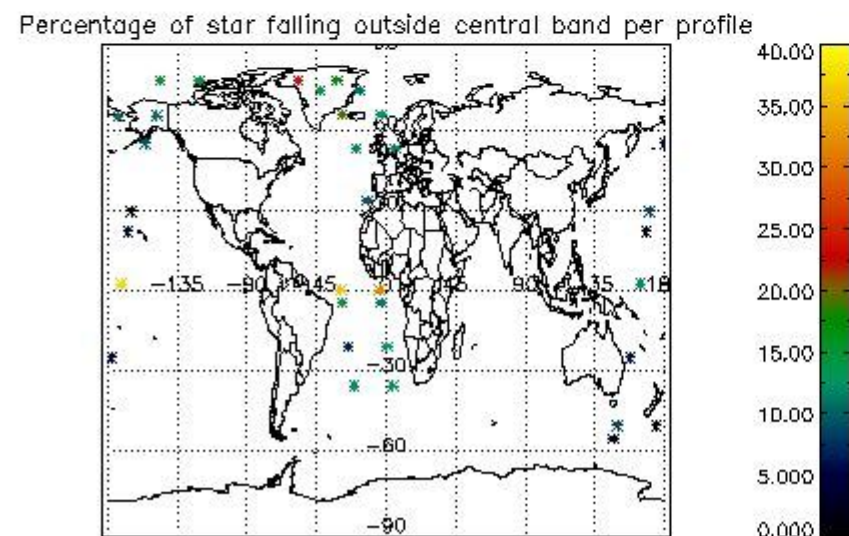
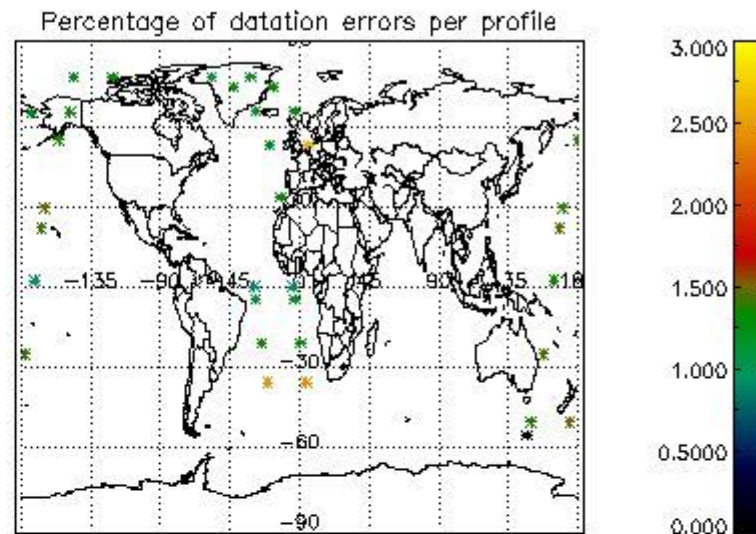
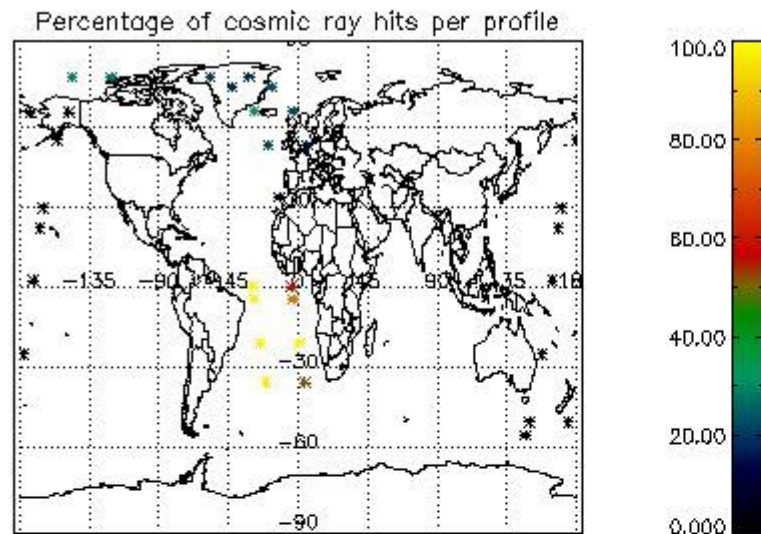
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.3529 %
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)



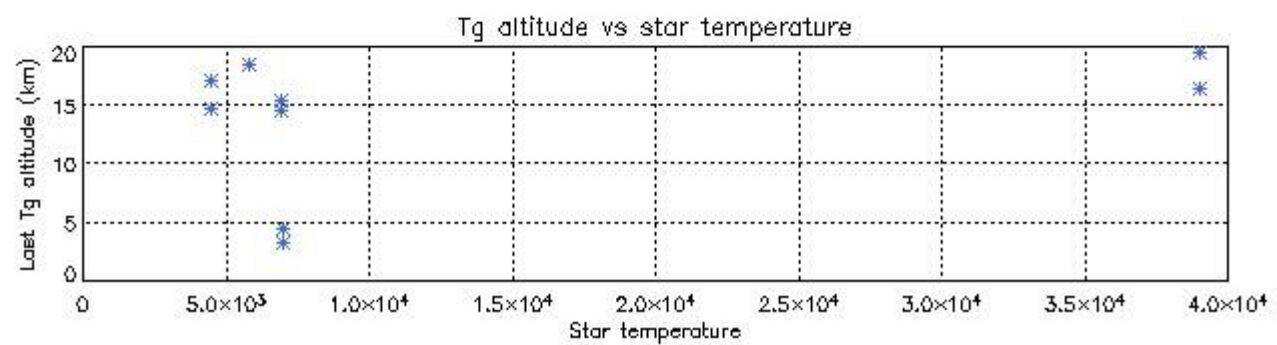
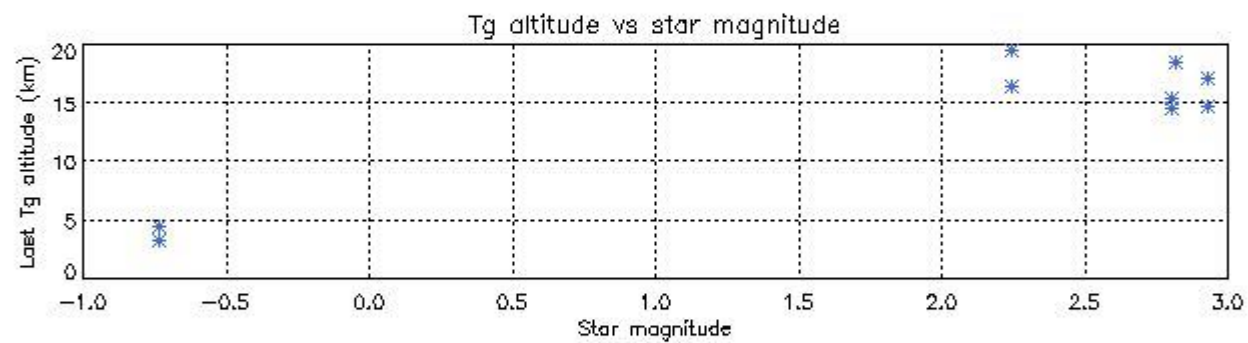
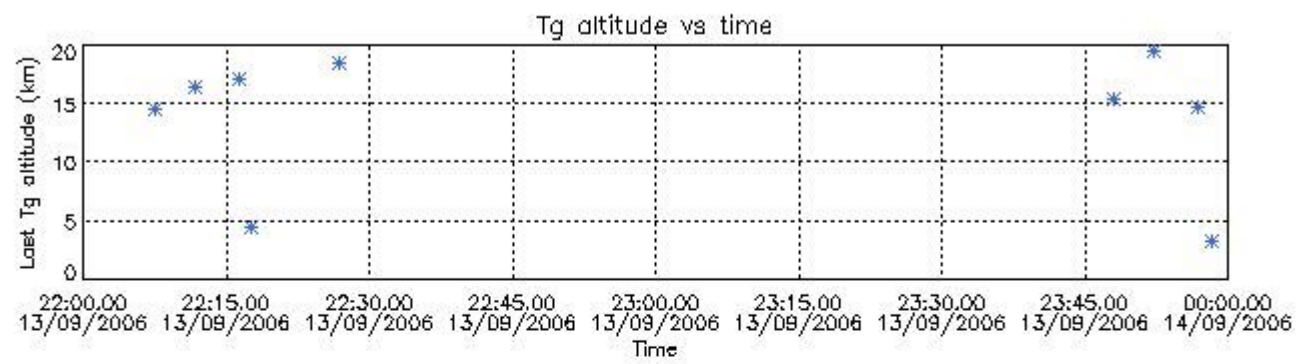
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.756	19.959	NaN
St. deviation:	5.8568	5.5121	NaN
Maximum:	19.403	26.423	NaN
Minimum:	3.2863	3.2423	NaN
Number of data:	9.0000	15.000	NaN

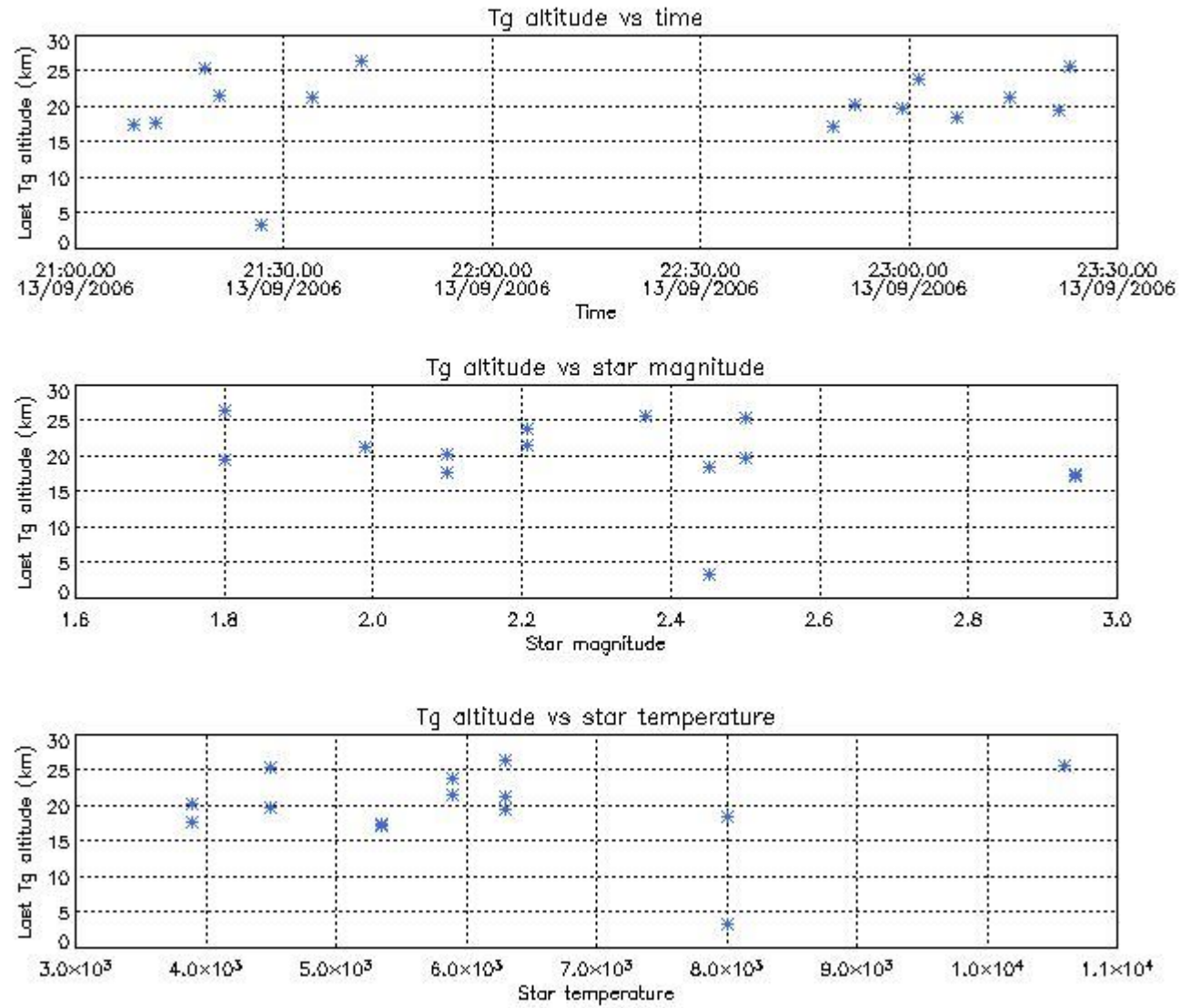
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



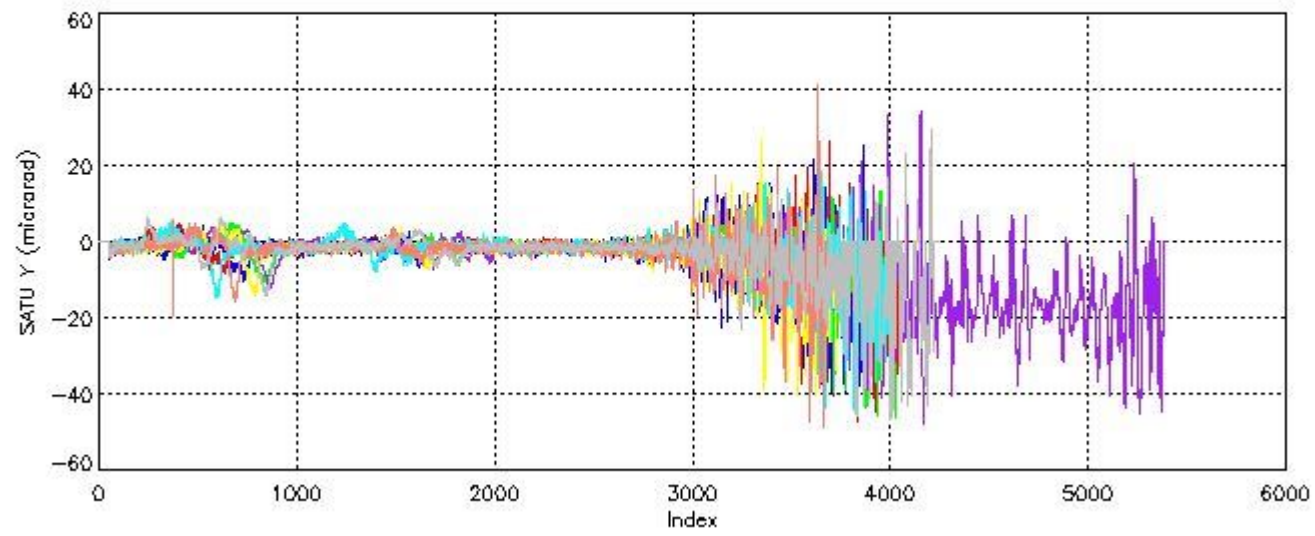
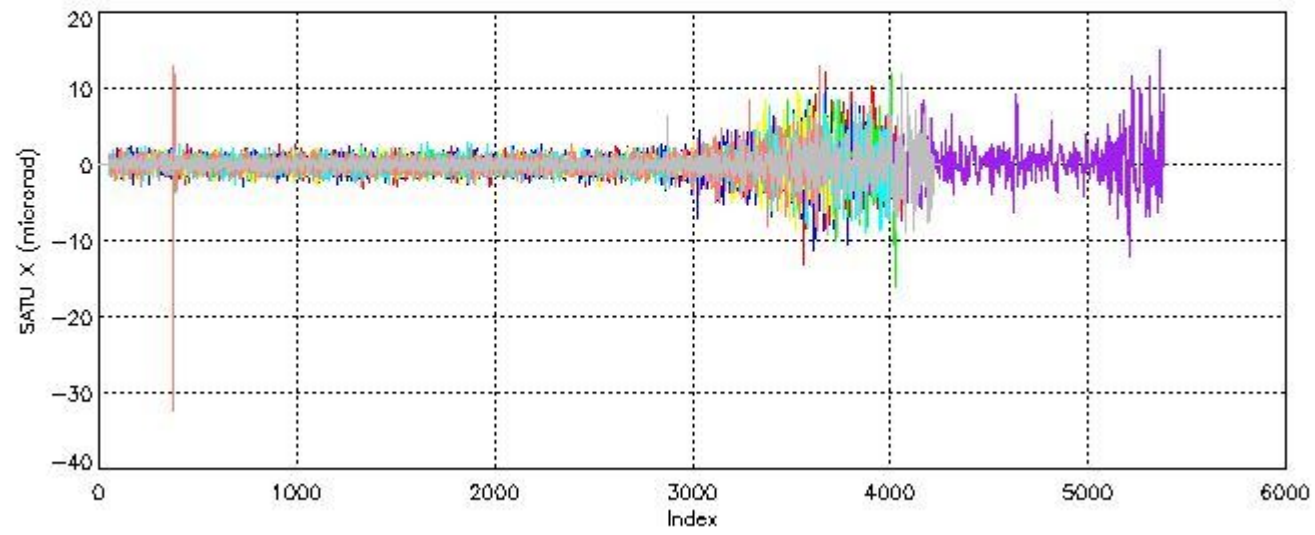
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

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

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

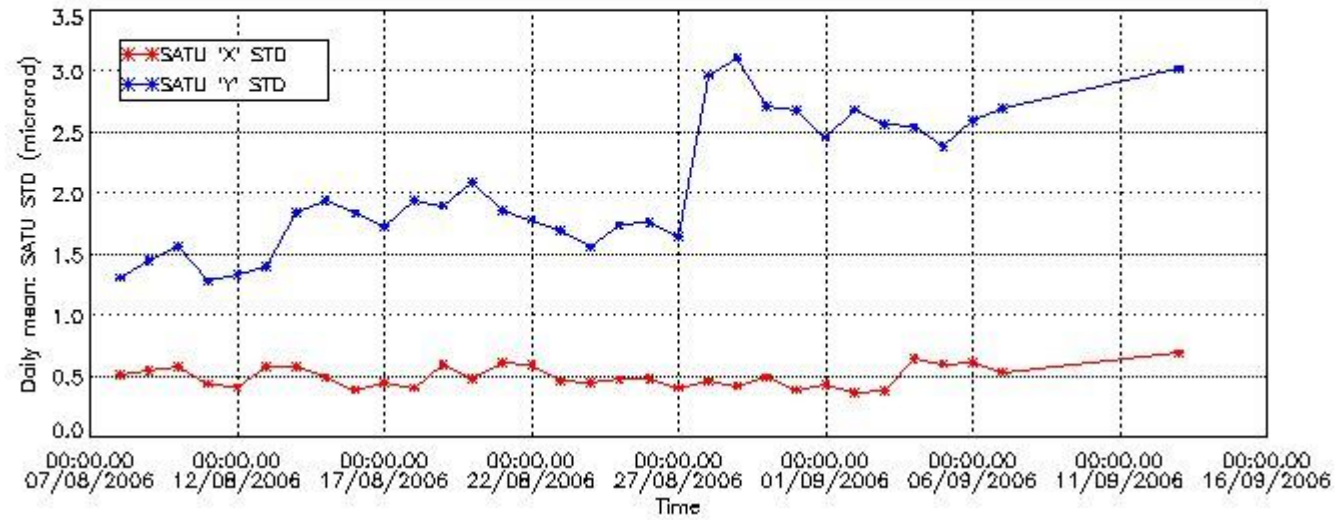
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	-0.0031240	-1.3415	-0.0033466	-1.2848
St. deviation:	0.68235	3.0161	0.63152	2.6922
Maximum:	12.900	6.2000	3.1000	6.1000
Minimum:	-0.30000	-12.700	-3.6000	-18.100

Number of data:	8050.0	8050.0	12100.	12100.
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

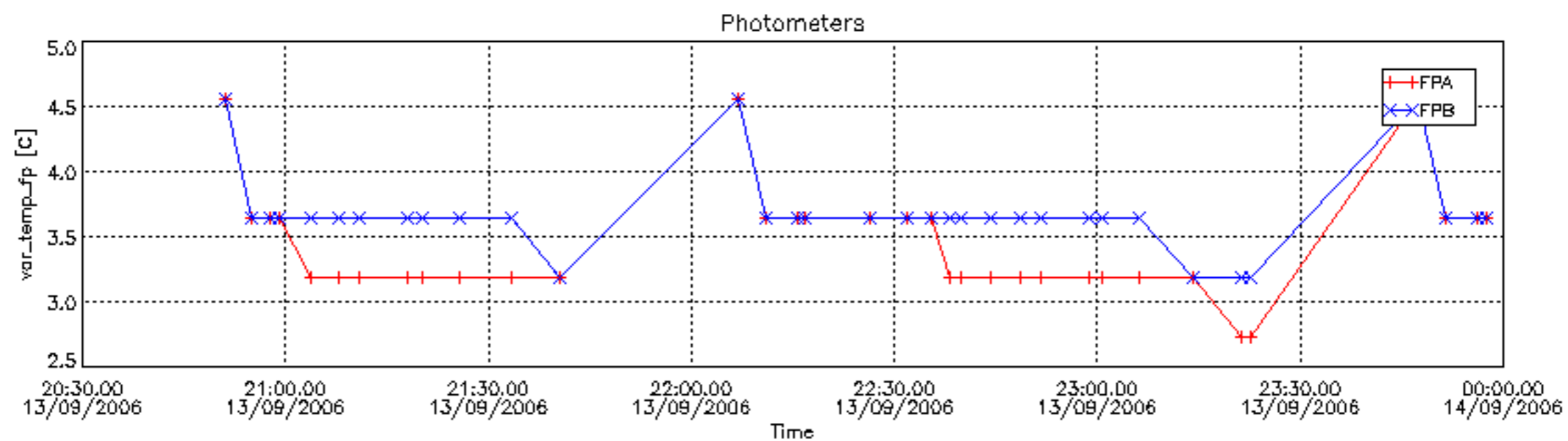
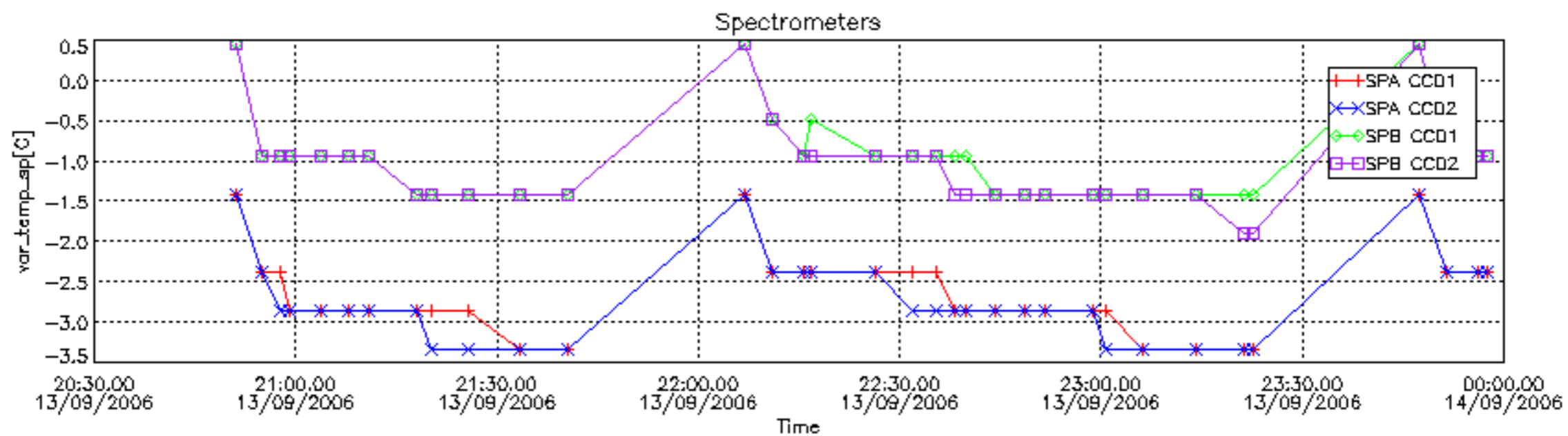
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

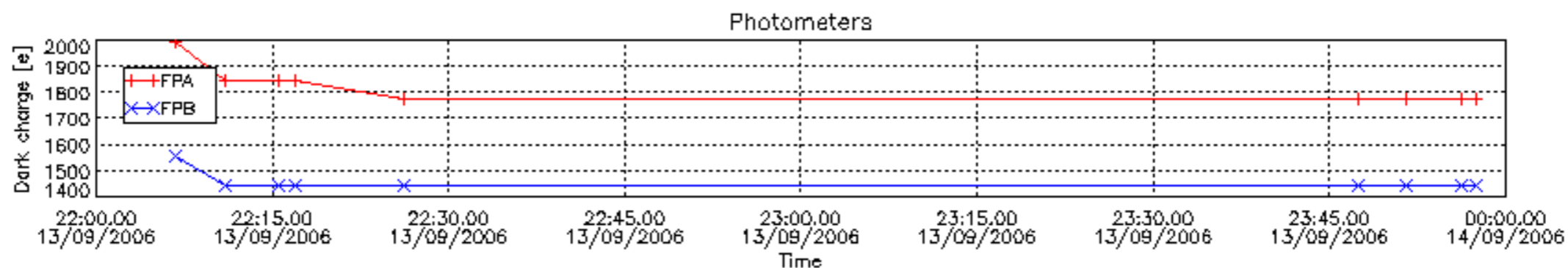
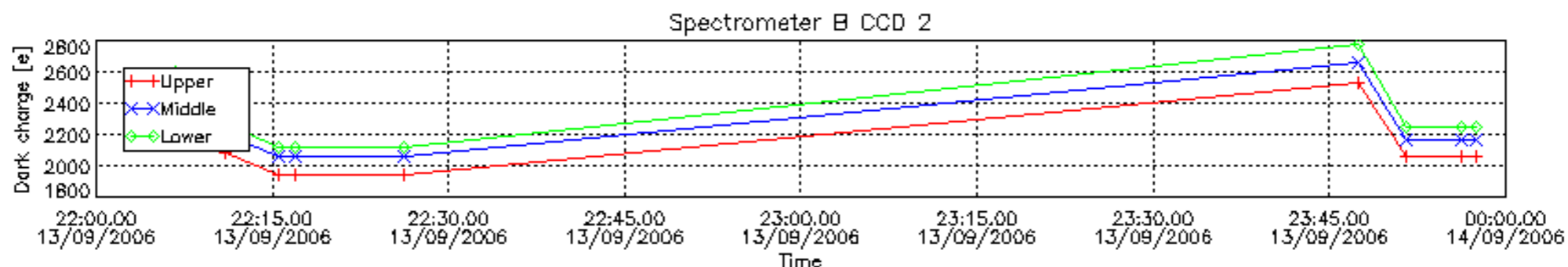
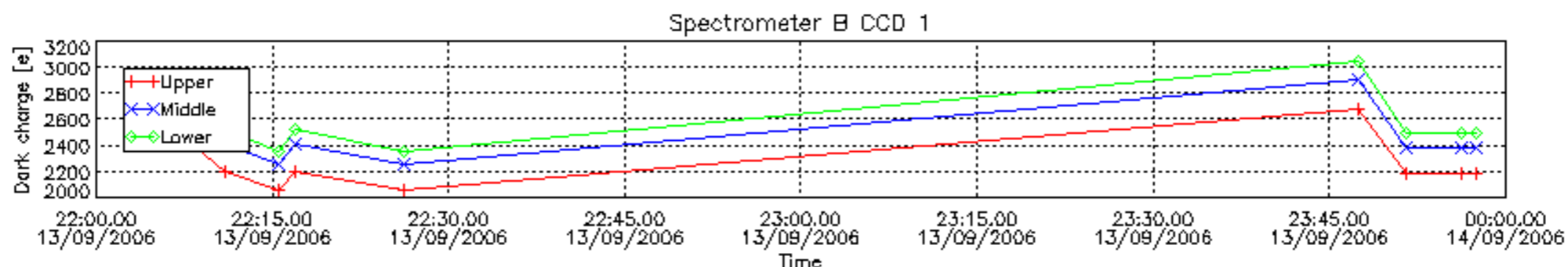
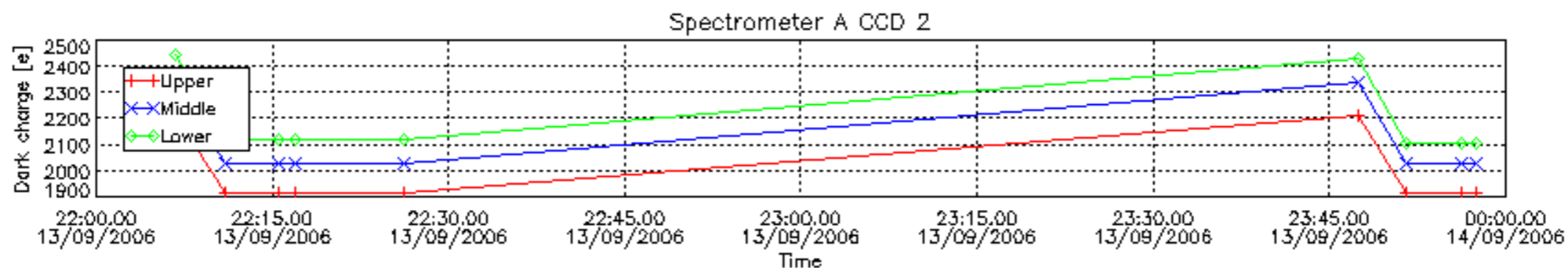
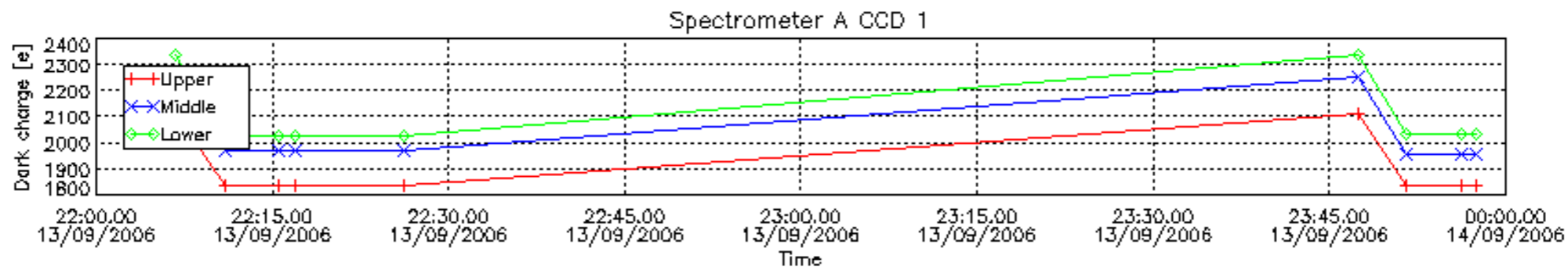


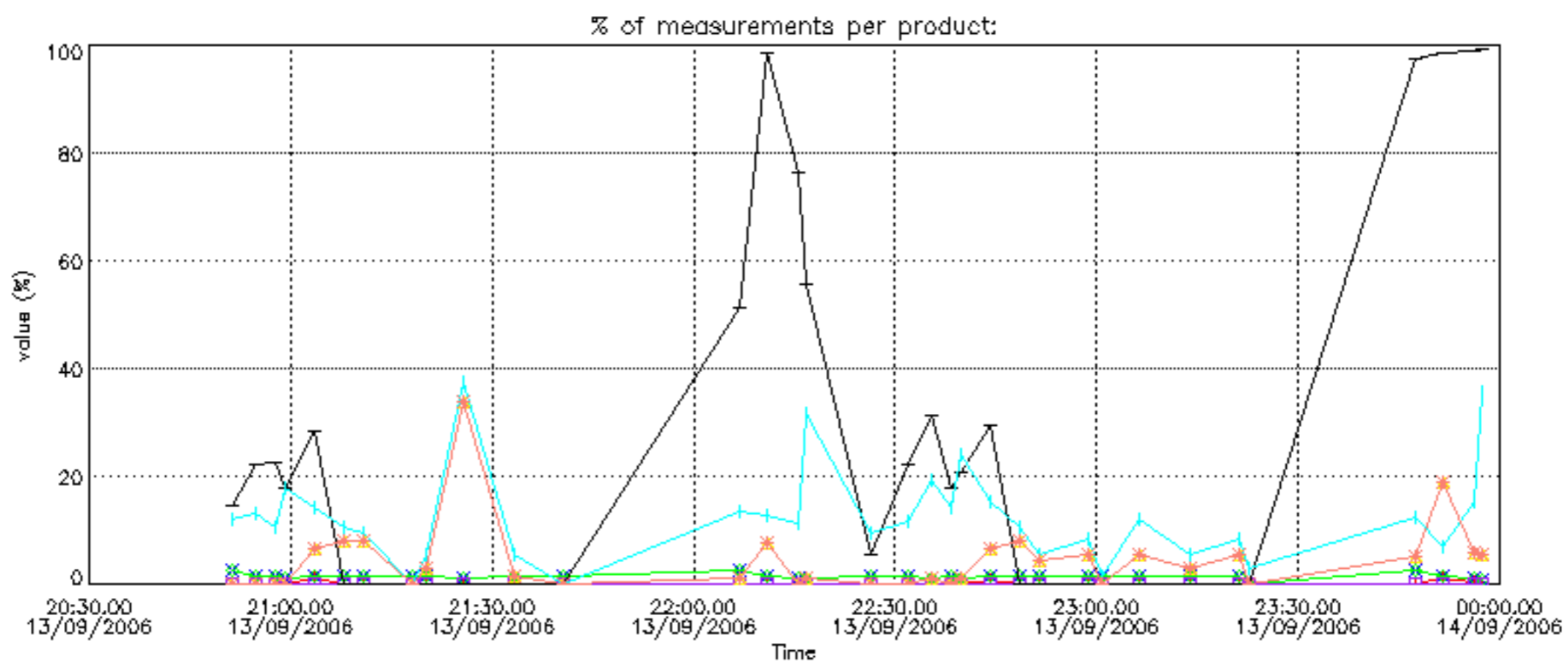
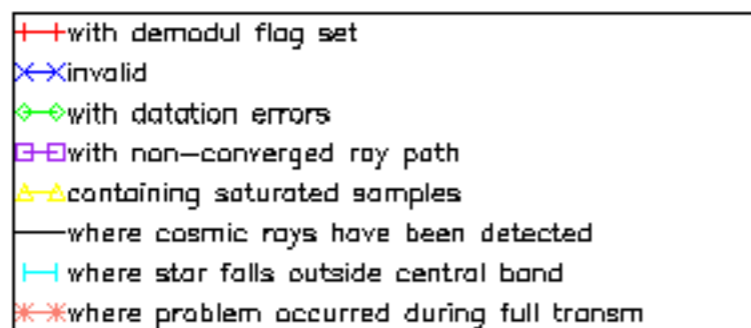
### 8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

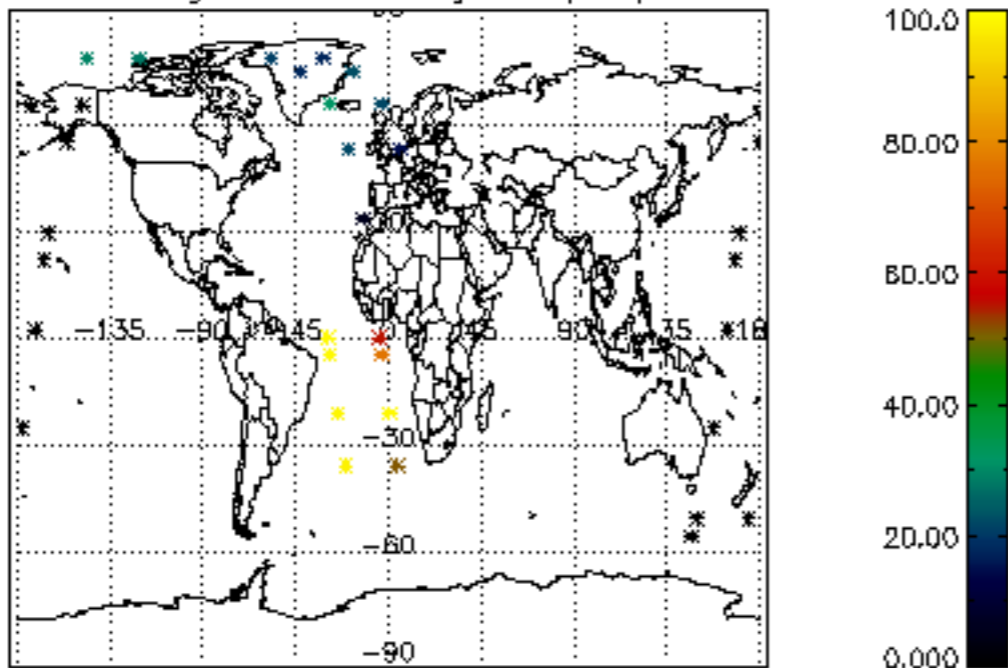
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-SEP-2006 20:51:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	13-SEP-2006 20:51:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-SEP-2006 20:51:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-SEP-2006 20:51:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-SEP-2006 20:51:13
ECMWF_FILE	AUX_ECF_AXNECM20060913_062631_20060913_150000_20060914_030000	1	13-SEP-2006 20:51:13
ECMWF_FILE	AUX_ECF_AXNECM20060913_062651_20060913_210000_20060914_090000	13	13-SEP-2006 22:06:47
ECMWF_FILE	AUX_ECA_AXNECM20060914_061024_20060913_210000_20060914_090000	31	13-SEP-2006 23:47:23
ECMWF_FILE	AUX_ECF_AXNECM20060913_062651_20060913_210000_20060914_090000	32	13-SEP-2006 23:51:34
OPTIONAL_ECMWF_FILE	MISSING	1	13-SEP-2006 20:51:13
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060913_090559_20060912_192714_20060922_205327	1	13-SEP-2006 20:51:13



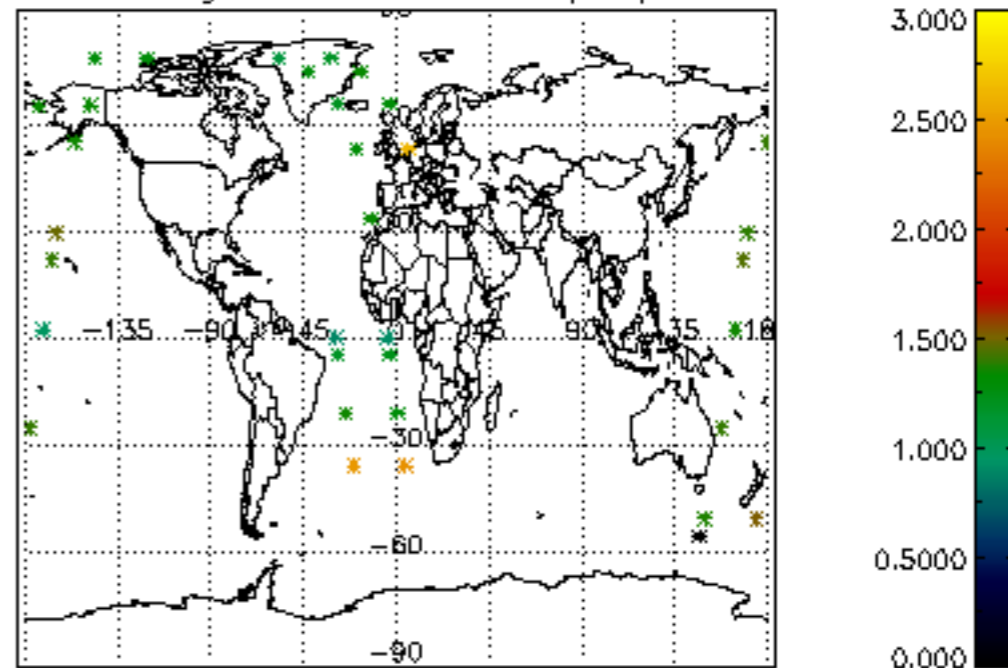




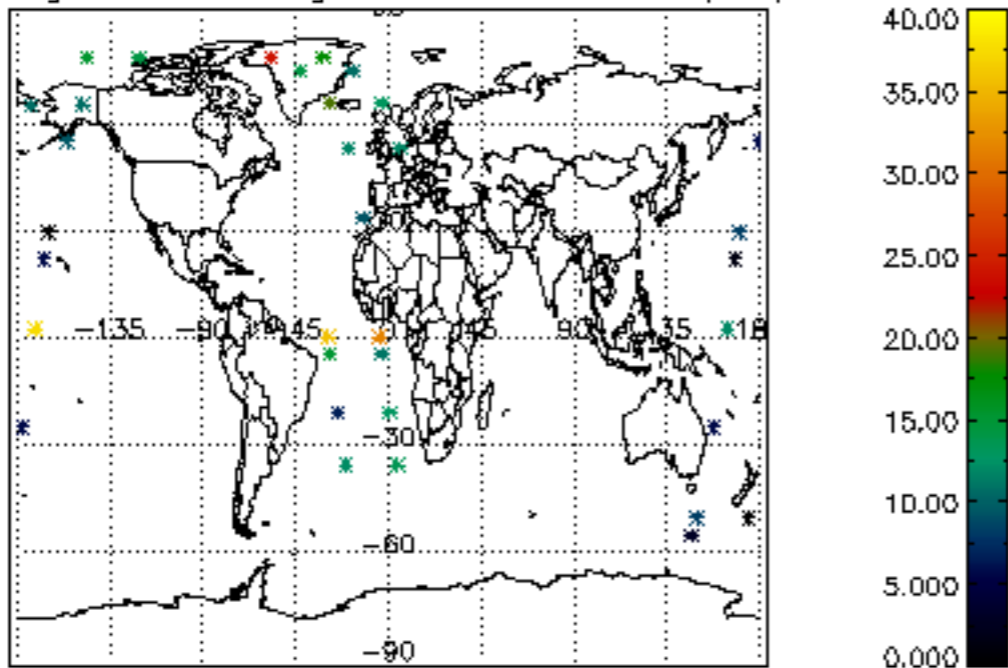
Percentage of cosmic ray hits per profile



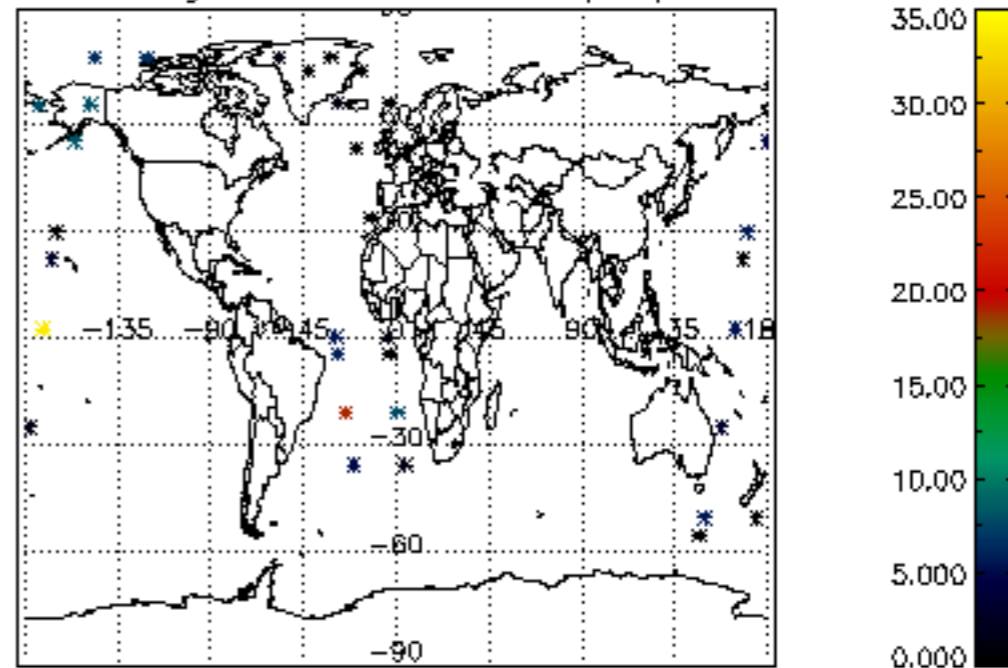
Percentage of datation errors per profile



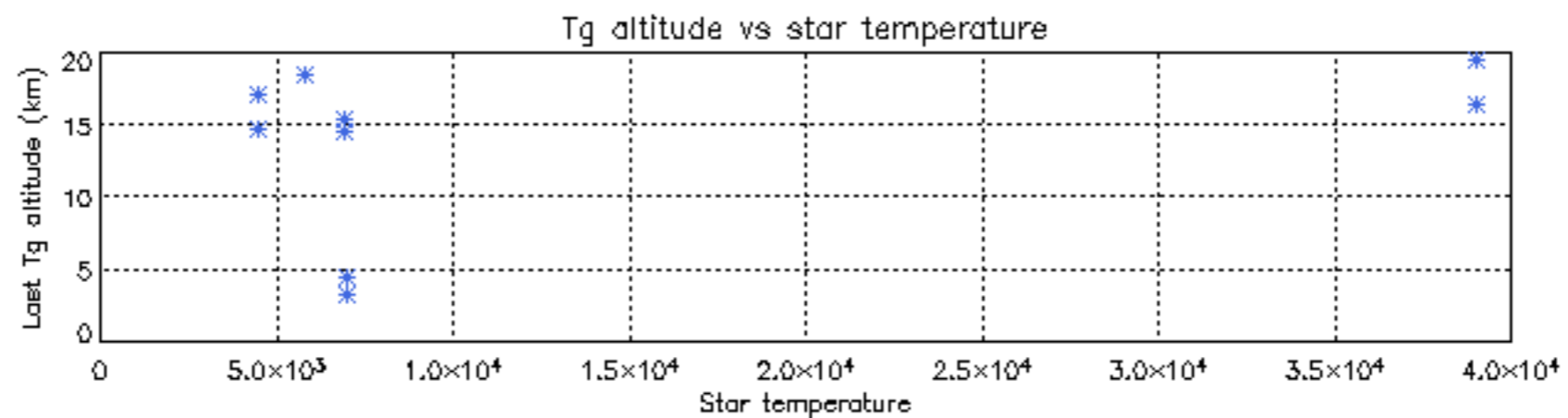
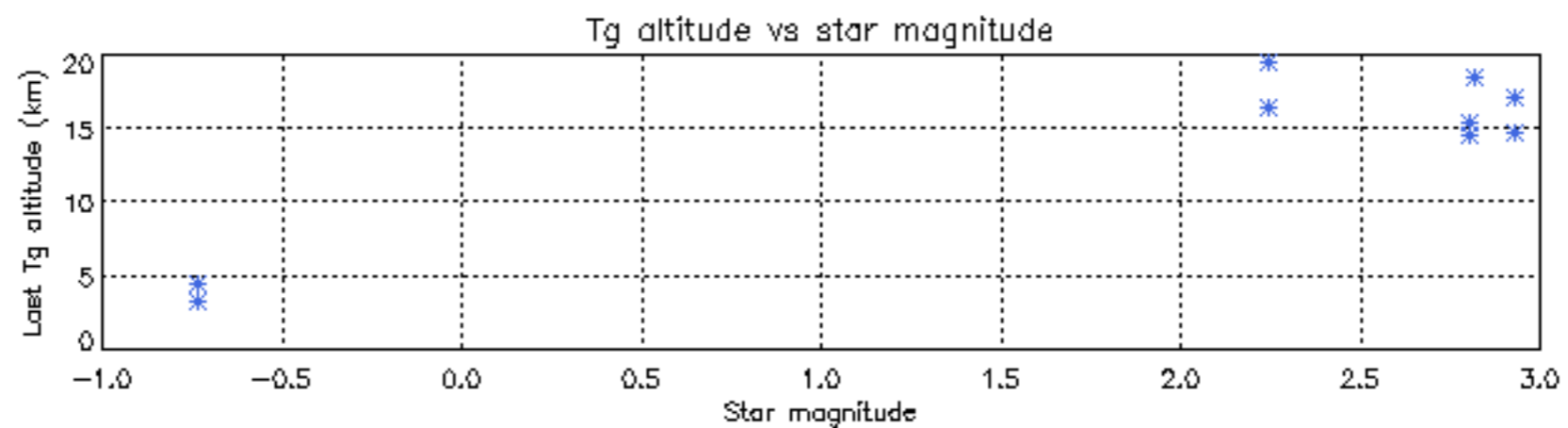
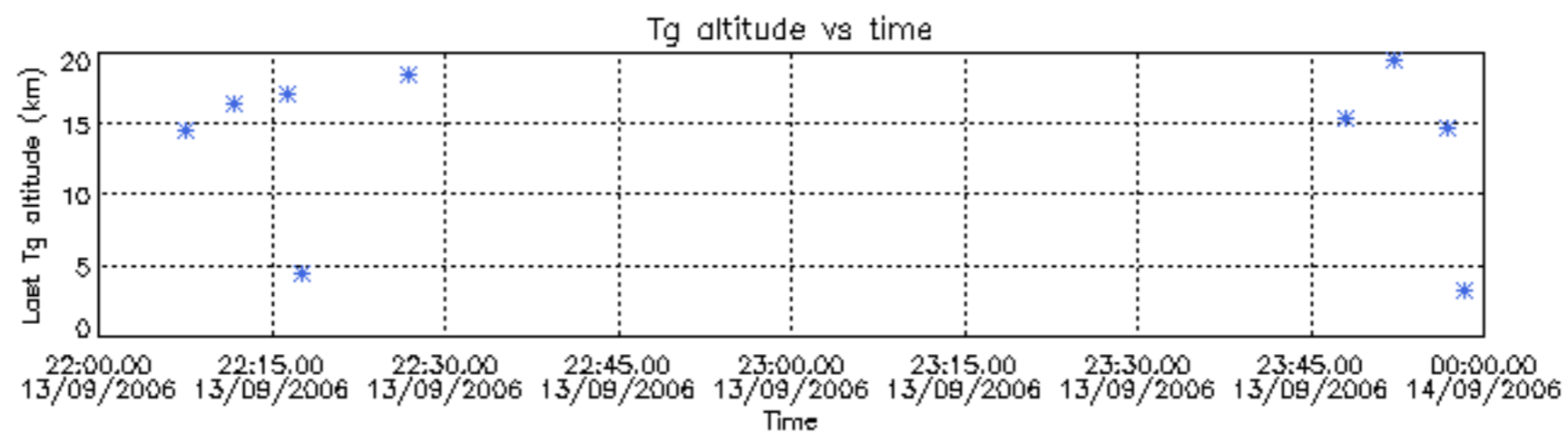
Percentage of star falling outside central band per profile



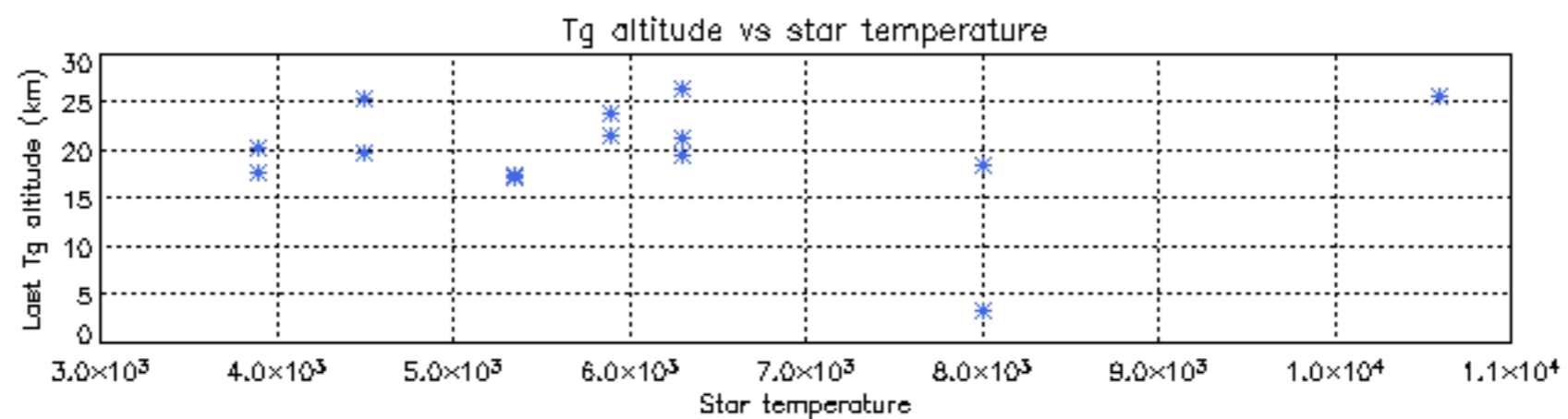
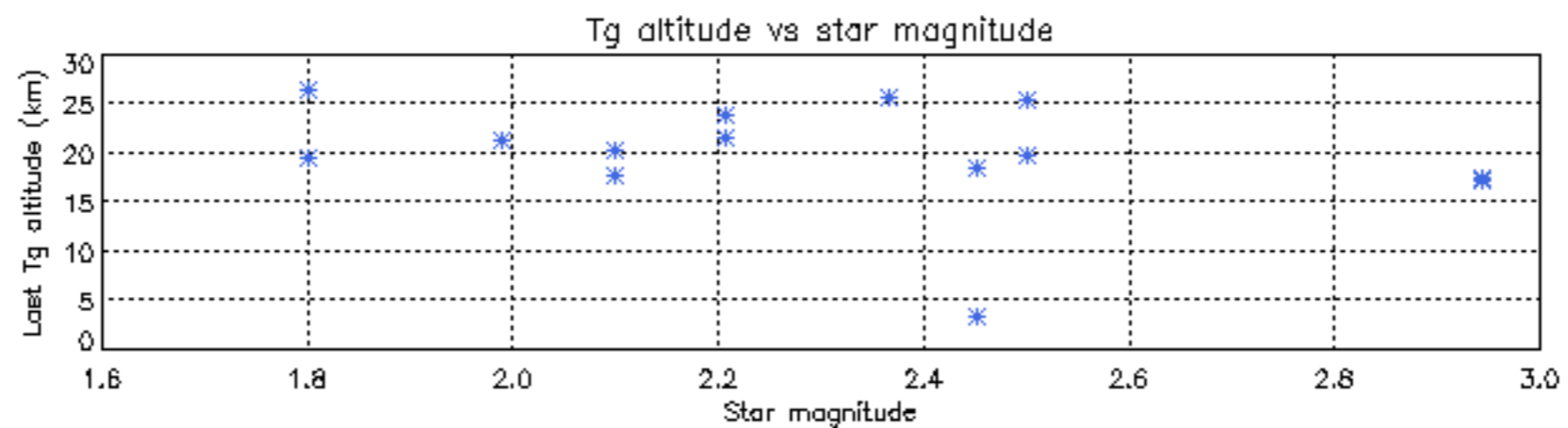
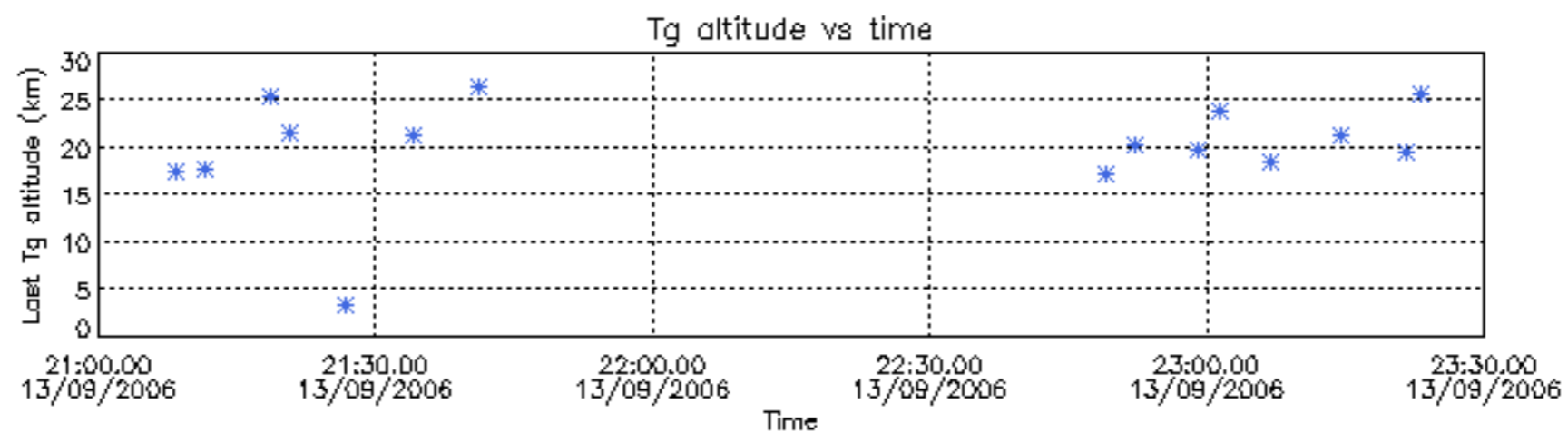
Percentage of saturation errors per profile



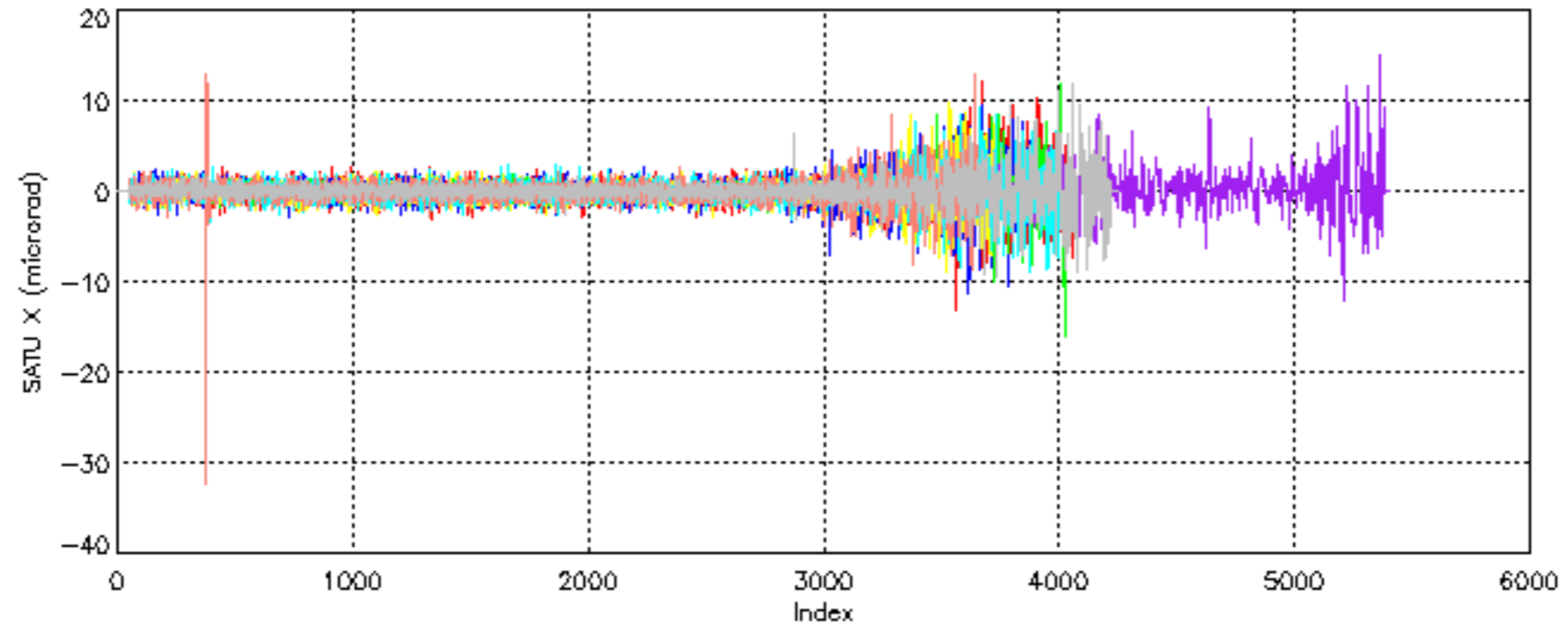
Tangent altitude at which the star is lost

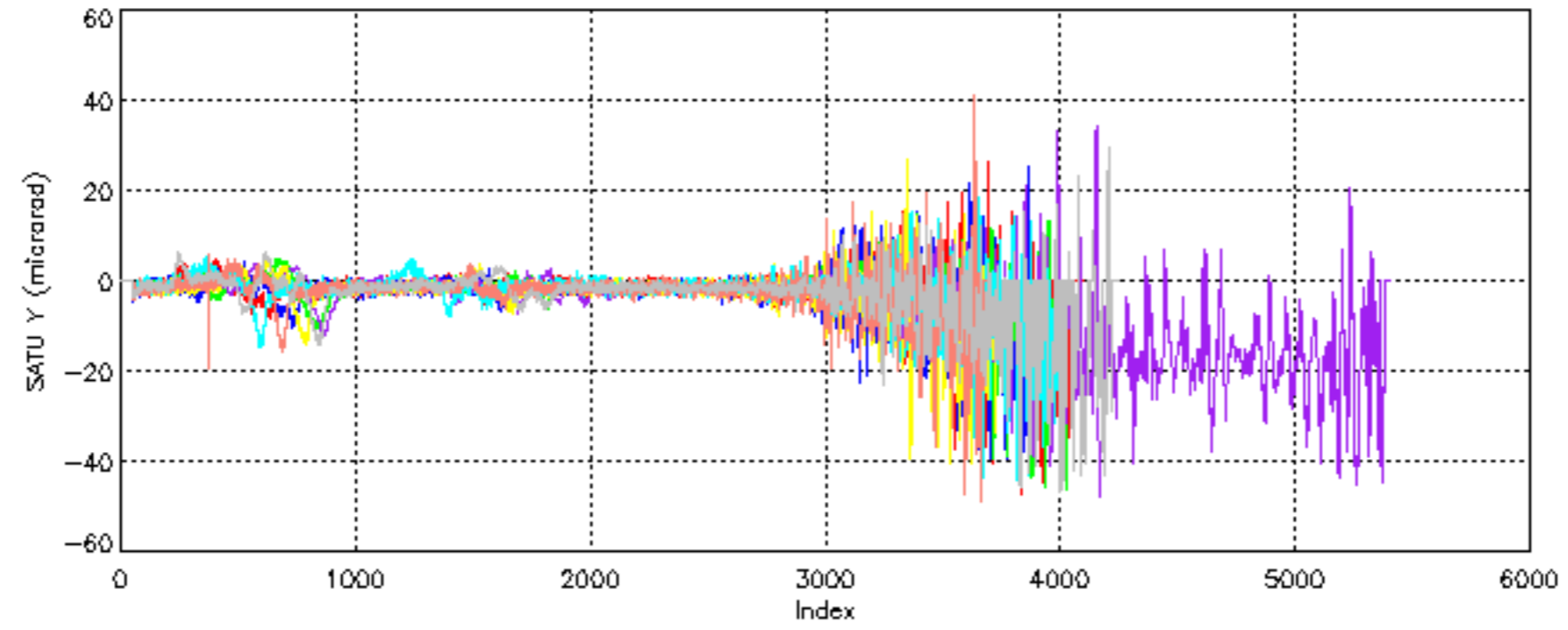


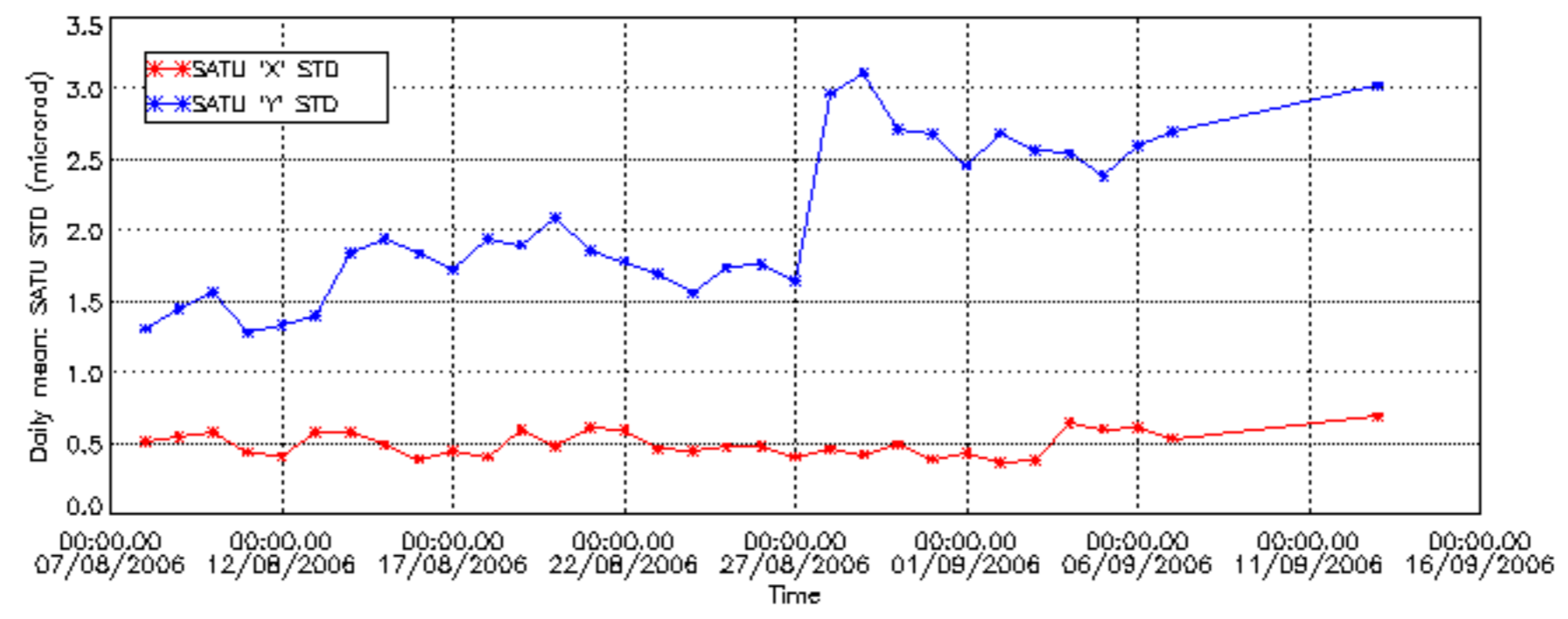
Tangent altitude at which the star is lost











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 2; -497.5; 01-SEP-2006 01:38:24; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23546  
 3; -402.4; 01-SEP-2006 01:39:59; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;23546  
 4; -278.6; 01-SEP-2006 01:42:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23546  
 5; -92.4; 01-SEP-2006 01:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;23546  
 6; 526.4; 01-SEP-2006 01:55:28; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23547  
 7; 603.1; 01-SEP-2006 01:56:44; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;23547  
 8; 1084.0; 01-SEP-2006 02:04:45; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;23547  
 9; 1328.9; 01-SEP-2006 02:08:50; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;23547  
 10; 1619.0; 01-SEP-2006 02:13:40; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 0;23547  
 11; 1807.1; 01-SEP-2006 02:16:48; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23547  
 12; 1895.4; 01-SEP-2006 02:18:17; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23547  
 13; 2075.6; 01-SEP-2006 02:21:17; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23547  
 14; 2487.4; 01-SEP-2006 02:28:09; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;23547  
 15; 2600.2; 01-SEP-2006 02:30:01; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;23547  
 16; 2678.1; 01-SEP-2006 02:31:19; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;23547  
 17; 2975.7; 01-SEP-2006 02:36:17; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23547  
 18; 3434.5; 01-SEP-2006 02:43:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;23547

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 3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547  
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 6; -277.9; 01-SEP-2006 03:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23547  
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 8; 527.5; 01-SEP-2006 03:36:04; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23548  
 9; 604.2; 01-SEP-2006 03:37:21; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;23548  
 10; 1084.9; 01-SEP-2006 03:45:22; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;23548  
 11; 1329.7; 01-SEP-2006 03:49:26; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;23548  
 12; 1619.6; 01-SEP-2006 03:54:16; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23548  
 13; 1807.8; 01-SEP-2006 03:57:24; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23548  
 14; 1896.0; 01-SEP-2006 03:58:53; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23548  
 15; 2075.9; 01-SEP-2006 04:01:53; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;23548  
 16; 2488.1; 01-SEP-2006 04:08:45; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;23548  
 17; 2600.9; 01-SEP-2006 04:10:38; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;23548  
 18; 2678.7; 01-SEP-2006 04:11:55; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23548  
 19; 2976.1; 01-SEP-2006 04:16:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23548  
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 2; -1120.7; 01-SEP-2006 04:49:12; Dark ; 43.0; 8; 10Alp CMi ; 0.40; 6500;occ; 86; 0;23548  
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 8; 527.8; 01-SEP-2006 05:16:40; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23549  
 9; 604.8; 01-SEP-2006 05:17:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23549  
 10; 1085.1; 01-SEP-2006 05:25:58; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23549  
 11; 1329.9; 01-SEP-2006 05:30:03; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;23549  
 12; 1619.7; 01-SEP-2006 05:34:52; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23549  
 13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549  
 14; 1896.0; 01-SEP-2006 05:39:29; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23549  
 15; 2075.9; 01-SEP-2006 05:42:29; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;23549  
 16; 2488.2; 01-SEP-2006 05:49:21; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;23549  
 17; 2601.0; 01-SEP-2006 05:51:14; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;23549  
 18; 2678.7; 01-SEP-2006 05:52:31; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23549  
 19; 2976.1; 01-SEP-2006 05:57:29; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;23549  
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9; 1332.6; 01-SEP-2006 22:16:04; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;23559
10; 1621.1; 01-SEP-2006 22:20:53; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;23559
11; 1808.8; 01-SEP-2006 22:24:01; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;23559
12; 1895.7; 01-SEP-2006 22:25:28; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23559
13; 2075.5; 01-SEP-2006 22:28:27; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23559
14; 2488.8; 01-SEP-2006 22:35:21; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;23559
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16; 2975.1; 01-SEP-2006 22:43:27; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23559
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3; -396.8; 01-SEP-2006 23:27:51; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;23559
4; -273.6; 01-SEP-2006 23:29:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23559
5; -86.1; 01-SEP-2006 23:33:02; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;23559
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12; 1895.7; 02-SEP-2006 00:06:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23560
13; 2075.5; 02-SEP-2006 00:09:03; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;23560
14; 2488.8; 02-SEP-2006 00:15:57; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;23560
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16; 2975.0; 02-SEP-2006 00:24:03; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;23560
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18; 4454.6; 02-SEP-2006 00:48:42; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23560
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5; -400.8; 01-SEP-2006 06:41:48; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;23549
6; -277.2; 01-SEP-2006 06:43:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23549
7; -90.6; 01-SEP-2006 06:46:58; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;23549
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6;-3357.2; 01-SEP-2006 07:33:07; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23550
7;-3059.9; 01-SEP-2006 07:38:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23550
8;-2600.9; 01-SEP-2006 07:45:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;23550

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9;-1582.7; 01-SEP-2006 08:02:42; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;23550
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 5;-2606.0; 25-SEP-2006 13:33:25; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;23897  
 6;-2506.8; 25-SEP-2006 13:35:04; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;23897  
 7;-2140.4; 25-SEP-2006 13:41:11; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;23897  
 8;-2051.6; 25-SEP-2006 13:42:39; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;23897  
 9;-1862.0; 25-SEP-2006 13:45:49; Bright; 33.0; 174; 52Psi UMa ; 3.00; 4400;occ; 66; 0;23897  
 10;-1463.1; 25-SEP-2006 13:52:28; Bright; 33.0; 166; 17Eps Leo ; 2.98; 6000;occ; 66; 0;23897  
 11; -902.4; 25-SEP-2006 14:01:49; Dark ; 41.5; 48; 30Alp Hya ; 1.98; 4100;occ; 83; 0;23897  
 12; -320.8; 25-SEP-2006 14:11:30; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;23897  
 13; -232.9; 25-SEP-2006 14:12:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23897  
 14; -122.4; 25-SEP-2006 14:14:49; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;23897  
 15; -27.7; 25-SEP-2006 14:16:23; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;23897  
 16; 700.2; 25-SEP-2006 14:28:31; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23898  
 17; 787.4; 25-SEP-2006 14:29:58; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;23898  
 18; 1131.6; 25-SEP-2006 14:35:43; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;23898  
 19; 1407.5; 25-SEP-2006 14:40:19; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;23898

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 2;-4109.7; 25-SEP-2006 14:48:58; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;23898  
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 4;-3646.5; 25-SEP-2006 14:56:41; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;23898  
 5;-3050.0; 25-SEP-2006 15:06:38; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23898  
 6;-2606.4; 25-SEP-2006 15:14:01; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;23898  
 7;-2507.1; 25-SEP-2006 15:15:40; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;23898  
 8;-2141.0; 25-SEP-2006 15:21:47; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;23898  
 9;-2052.2; 25-SEP-2006 15:23:15; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;23898

10;-1862.2; 25-SEP-2006 15:26:25; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;23898  
 11;-1463.6; 25-SEP-2006 15:33:04; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;23898  
 12; -902.8; 25-SEP-2006 15:42:25; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;23898  
 13; -321.0; 25-SEP-2006 15:52:06; Dark ; 41.5; 65; Lam Vel ; 2.20; 4400;occ; 83; 0;23898  
 14; -233.1; 25-SEP-2006 15:53:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23898  
 15; -122.6; 25-SEP-2006 15:55:25; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;23898  
 16; -27.9; 25-SEP-2006 15:57:00; Dark ; 38.0; 41; Eps Car ; 1.86; 4100;occ; 76; 0;23898  
 17; 700.0; 25-SEP-2006 16:09:08; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23899  
 18; 787.3; 25-SEP-2006 16:10:35; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;23899  
 19; 1131.2; 25-SEP-2006 16:16:19; Dark ; 41.5; 63; Bet Gru ; 2.15; 2800;occ; 83; 0;23899

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1;-4628.4; 25-SEP-2006 16:20:55; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;23899  
 2;-4108.9; 25-SEP-2006 16:29:34; Bright; 34.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 69; 0;23899  
 3;-3868.7; 25-SEP-2006 16:33:34; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;23899  
 4;-3646.1; 25-SEP-2006 16:37:17; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;23899  
 5;-3049.5; 25-SEP-2006 16:47:14; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;23899  
 6;-2605.8; 25-SEP-2006 16:54:37; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;23899  
 7;-2506.4; 25-SEP-2006 16:56:17; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;23899  
 8;-2140.4; 25-SEP-2006 17:02:23; Bright; 34.0; 36; 50Alp UMA ; 1.80; 6300;occ; 68; 0;23899  
 9;-2051.6; 25-SEP-2006 17:03:51; Bright; 34.0; 82; 48Bet UMA ; 2.37; 10600;occ; 68; 0;23899  
 10;-1861.5; 25-SEP-2006 17:07:02; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;23899  
 11;-1462.9; 25-SEP-2006 17:13:40; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;23899  
 12; -901.8; 25-SEP-2006 17:23:01; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;23899  
 13; -320.2; 25-SEP-2006 17:32:43; Dark ; 48.0; 65; Lam Vel ; 2.20; 4400;occ; 96; 0;23899  
 14; -232.3; 25-SEP-2006 17:34:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23899  
 15; -121.8; 25-SEP-2006 17:36:01; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;23899  
 16; -27.1; 25-SEP-2006 17:37:36; Dark ; 38.0; 41; Eps Car ; 1.86; 4100;occ; 76; 0;23899  
 17; 700.9; 25-SEP-2006 17:49:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23900  
 18; 788.3; 25-SEP-2006 17:51:11; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;23900

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 3;-4109.4; 25-SEP-2006 18:10:10; Bright; 37.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 75; 0;23900  
 4;-3869.3; 25-SEP-2006 18:14:10; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;23900  
 5;-3646.7; 25-SEP-2006 18:17:53; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;23900  
 6;-3049.8; 25-SEP-2006 18:27:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;23900  
 7;-2606.5; 25-SEP-2006 18:35:13; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;23900  
 8;-2506.7; 25-SEP-2006 18:36:53; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;23900  
 9;-2140.8; 25-SEP-2006 18:42:59; Bright; 33.5; 36; 50Alp UMA ; 1.80; 6300;occ; 67; 0;23900  
 10;-2052.0; 25-SEP-2006 18:44:28; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;23900  
 11;-1861.9; 25-SEP-2006 18:47:38; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;23900  
 12;-1463.2; 25-SEP-2006 18:54:16; Bright; 31.5; 166; 17Eps Leo ; 2.98; 6000;occ; 63; 0;23900  
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 14; -320.5; 25-SEP-2006 19:13:19; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;23900  
 15; -232.5; 25-SEP-2006 19:14:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23900  
 16; -122.0; 25-SEP-2006 19:16:38; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;23900  
 17; 700.7; 25-SEP-2006 19:30:20; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;23901  
 18; 788.2; 25-SEP-2006 19:31:48; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;23901

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 3; -120.7; 26-SEP-2006 00:18:26; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;23903  
 4; -26.0; 26-SEP-2006 00:20:01; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;23903  
 5; 702.4; 26-SEP-2006 00:32:09; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23904  
 6; 790.0; 26-SEP-2006 00:33:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;23904  
 7; 1132.4; 26-SEP-2006 00:39:19; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;23904  
 8; 1408.3; 26-SEP-2006 00:43:55; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;23904  
 9; 1928.0; 26-SEP-2006 00:52:35; Bright; 37.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 74; 0;23904  
 10; 2167.1; 26-SEP-2006 00:56:34; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;23904  
 11; 2389.3; 26-SEP-2006 01:00:16; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;23904  
 12; 2987.3; 26-SEP-2006 01:10:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;23904  
 13; 3429.9; 26-SEP-2006 01:17:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;23904  
 14; 3531.1; 26-SEP-2006 01:19:18; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;23904  
 15; 3896.1; 26-SEP-2006 01:25:23; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;23904  
 16; 3985.2; 26-SEP-2006 01:26:52; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;23904  
 17; 4175.3; 26-SEP-2006 01:30:02; Bright; 34.5; 174; 52Psi UMA ; 3.00; 4400;occ; 69; 0;23904  
 18; 4573.9; 26-SEP-2006 01:36:41; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;23904  
 19; 5135.5; 26-SEP-2006 01:46:02; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;23904

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 3; -231.1; 26-SEP-2006 01:57:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23904  
 4; -120.9; 26-SEP-2006 01:59:02; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;23904  
 5; -26.1; 26-SEP-2006 02:00:37; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;23904  
 6; 702.3; 26-SEP-2006 02:12:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23905  
 7; 790.0; 26-SEP-2006 02:14:13; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;23905  
 8; 1132.0; 26-SEP-2006 02:19:55; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;23905  
 9; 1408.0; 26-SEP-2006 02:24:31; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;23905  
 10; 1927.6; 26-SEP-2006 02:33:11; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;23905  
 11; 2166.6; 26-SEP-2006 02:37:10; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;23905  
 12; 2388.7; 26-SEP-2006 02:40:52; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;23905  
 13; 2986.9; 26-SEP-2006 02:50:50; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;23905  
 14; 3429.5; 26-SEP-2006 02:58:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;23905  
 15; 3530.7; 26-SEP-2006 02:59:54; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;23905

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 4;-1860.4; 26-SEP-2006 03:10:38; Bright; 33.5; 174; 52Psi UMA ; 3.00; 4400;occ; 67; 0;23905  
 5;-1461.9; 26-SEP-2006 03:17:17; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;23905  
 6; -899.9; 26-SEP-2006 03:26:39; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;23905  
 7; -318.3; 26-SEP-2006 03:36:20; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;23905  
 8; -230.2; 26-SEP-2006 03:37:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23905  
 9; -119.9; 26-SEP-2006 03:39:39; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;23905  
 10; -25.2; 26-SEP-2006 03:41:13; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;23905  
 11; 703.5; 26-SEP-2006 03:53:22; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23906  
 12; 790.9; 26-SEP-2006 03:54:49; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;23906  
 13; 1132.9; 26-SEP-2006 04:00:31; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;23906  
 14; 1408.9; 26-SEP-2006 04:05:07; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;23906  
 15; 1928.5; 26-SEP-2006 04:13:47; Bright; 37.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 75; 0;23906  
 16; 2167.3; 26-SEP-2006 04:17:46; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;23906  
 17; 2389.4; 26-SEP-2006 04:21:28; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;23906  
 18; 2987.7; 26-SEP-2006 04:31:26; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;23906  
 19; 3430.0; 26-SEP-2006 04:38:49; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;23906  
 20; 3531.9; 26-SEP-2006 04:40:30; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;23906

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 3;-1860.1; 26-SEP-2006 04:51:14; Bright; 34.0; 174; 52Psi UMA ; 3.00; 4400;occ; 68; 0;23906  
 4;-1461.4; 26-SEP-2006 04:57:53; Bright; 34.0; 166; 17Eps Leo ; 2.98; 6000;occ; 68; 0;23906  
 5; -899.5; 26-SEP-2006 05:07:15; Dark ; 42.5; 48; 30Alp Hya ; 1.98; 4100;occ; 85; 0;23906  
 6; -318.1; 26-SEP-2006 05:16:56; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;23906  
 7; -229.9; 26-SEP-2006 05:18:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23906  
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 10; 703.9; 26-SEP-2006 05:33:58; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;23907  
 11; 791.3; 26-SEP-2006 05:35:26; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;23907  
 12; 1133.1; 26-SEP-2006 05:41:08; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;23907  
 13; 1409.1; 26-SEP-2006 05:45:44; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;23907  
 14; 1928.7; 26-SEP-2006 05:54:23; Bright; 36.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 73; 0;23907  
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 16; 2389.3; 26-SEP-2006 06:02:04; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;23907  
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 3;-1859.9; 26-SEP-2006 06:31:51; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;23907  
 4;-1461.0; 26-SEP-2006 06:38:29; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;23907  
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