

# GOMOS Daily Report 22-FEB-2012

## 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	27FEB2012 12:08:35
Data source version	GOMOS/6.01
Start time of products	22FEB2012 00:19:03
Stop time of products	22FEB2012 23:46:07
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)

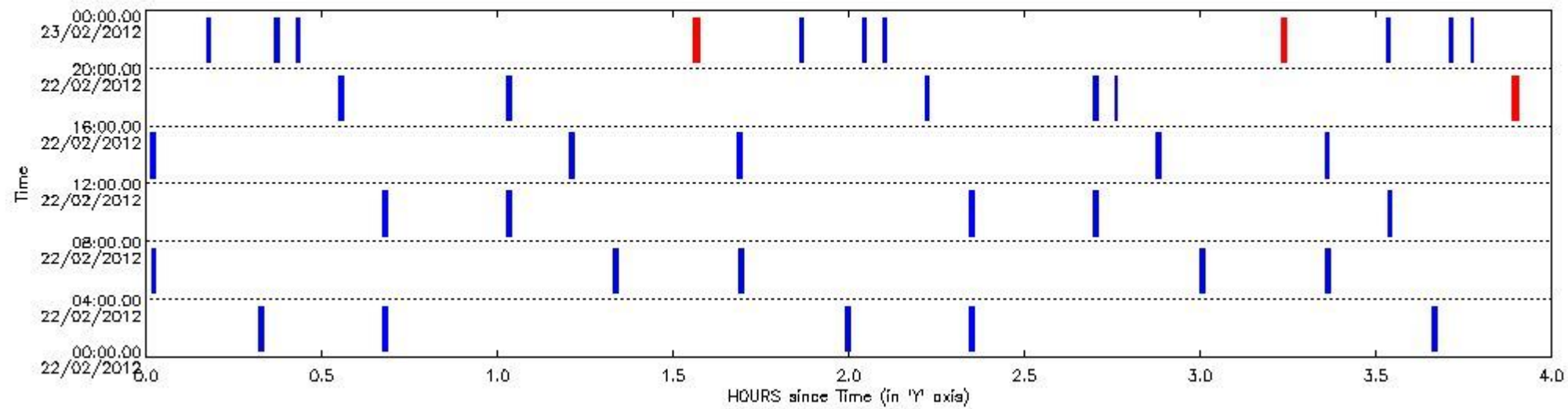
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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)

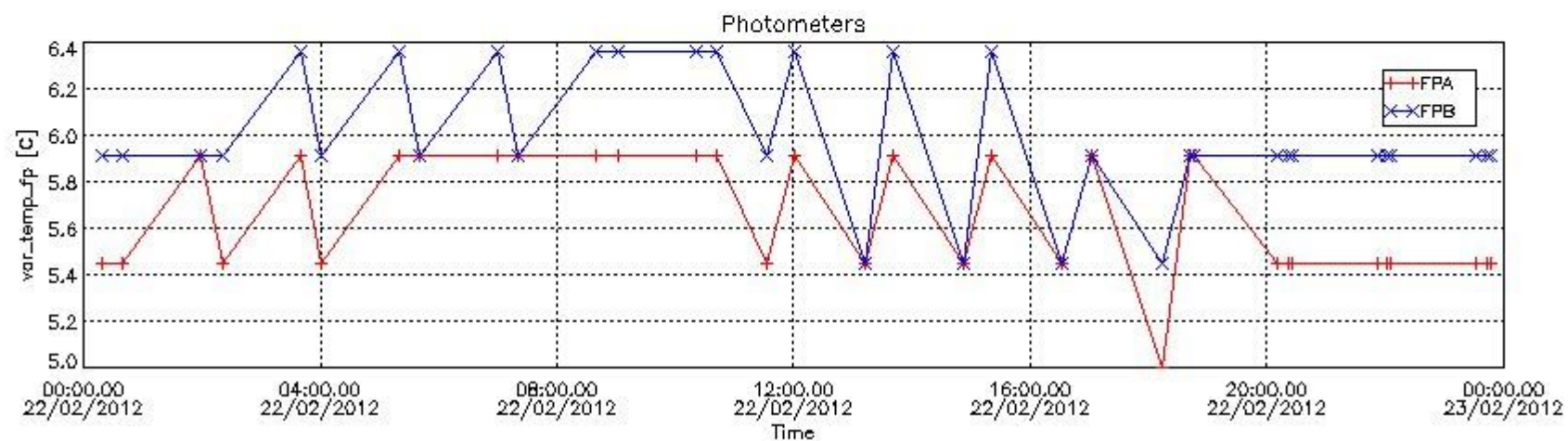
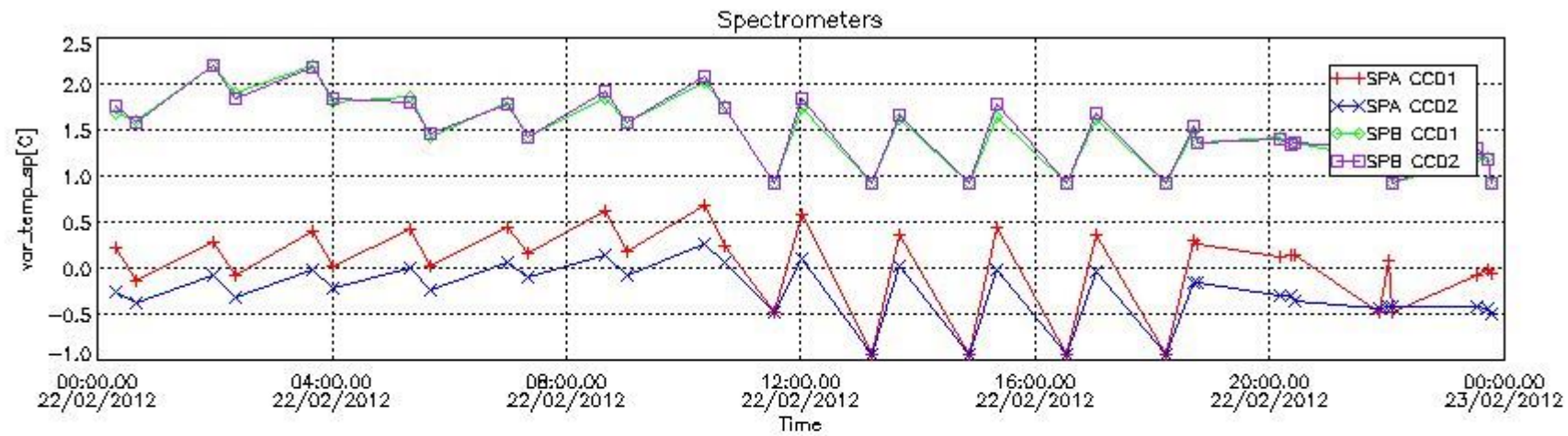
UTC start time	Star name	Star ID	Orbit
22-FEB-2012 19:53:15	17ZetAql	168	52225
22-FEB-2012 21:33:30	17ZetAql	168	52226
22-FEB-2012 23:13:44	17ZetAql	168	52227

### 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_1PNPDE20120222_001903_000000513112_00031_52200_0756.N1	22-FEB-2012 00:19:03	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52200	No
2	GOM_TRA_1PNPDE20120222_004023_000000473112_00031_52200_0757.N1	22-FEB-2012 00:40:23	Twilight	46.500	48	30Alp Hya	1.9770	4100.0	93	52200	No
3	GOM_TRA_1PNPDE20120222_015917_000000473112_00032_52201_0788.N1	22-FEB-2012 01:59:17	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52201	No
4	GOM_TRA_1PNPDE20120222_022037_000000483112_00032_52201_0789.N1	22-FEB-2012 02:20:37	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	52201	No
5	GOM_TRA_1PNPDE20120222_033932_000000523112_00033_52202_0836.N1	22-FEB-2012 03:39:32	Dark	52.000	10	Bet Cen	0.61000	28000.	104	52202	No
6	GOM_TRA_1PNPDE20120222_040051_000000473112_00033_52202_0837.N1	22-FEB-2012 04:00:51	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	52202	No
7	GOM_TRA_1PNPDE20120222_051946_000000473112_00034_52203_0877.N1	22-FEB-2012 05:19:46	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52203	No
8	GOM_TRA_1PNPDE20120222_054105_000000463112_00034_52203_0878.N1	22-FEB-2012 05:41:05	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	52203	No

9	GOM_TRA_1PNPDK20120222_070001_000000493112_00035_52204_5263.N1	22-FEB-2012 07:00:01	Dark	48.500	10	Bet Cen	0.61000	28000.	97	52204	No
10	GOM_TRA_1PNPDK20120222_072119_000000483112_00035_52204_5295.N1	22-FEB-2012 07:21:19	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	52204	No
11	GOM_TRA_1PNPDK20120222_084015_000000523112_00036_52205_5296.N1	22-FEB-2012 08:40:15	Dark	51.500	10	Bet Cen	0.61000	28000.	103	52205	No
12	GOM_TRA_1PNPDK20120222_090133_000000483112_00036_52205_5331.N1	22-FEB-2012 09:01:33	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	52205	No
13	GOM_TRA_1PNPDK20120222_102030_000000533112_00037_52206_5332.N1	22-FEB-2012 10:20:30	Dark	53.000	10	Bet Cen	0.61000	28000.	106	52206	No
14	GOM_TRA_1PNPDK20120222_104147_000000493112_00037_52206_5365.N1	22-FEB-2012 10:41:47	Twilight	48.500	48	30Alp Hya	1.9770	4100.0	97	52206	No
15	GOM_TRA_1PNPDK20120222_113202_000000363112_00037_52206_5366.N1	22-FEB-2012 11:32:02	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	52206	No
16	GOM_TRA_1PNPDK20120222_120044_000000533112_00038_52207_5367.N1	22-FEB-2012 12:00:44	Dark	53.000	10	Bet Cen	0.61000	28000.	106	52207	No
17	GOM_TRA_1PNPDK20120222_131217_000000423112_00038_52207_5404.N1	22-FEB-2012 13:12:17	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	52207	No
18	GOM_TRA_1PNPDK20120222_134059_000000433112_00039_52208_5405.N1	22-FEB-2012 13:40:59	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52208	No
19	GOM_TRA_1PNPDK20120222_145231_000000373112_00039_52208_5438.N1	22-FEB-2012 14:52:31	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	52208	No
20	GOM_TRA_1PNPDK20120222_152113_000000473112_00040_52209_5439.N1	22-FEB-2012 15:21:13	Dark	46.500	10	Bet Cen	0.61000	28000.	93	52209	No
21	GOM_TRA_1PNPDK20120222_163245_000000553112_00040_52209_5466.N1	22-FEB-2012 16:32:45	Bright	55.000	168	17Zet Aql	2.9860	11000.	110	52209	No
22	GOM_TRA_1PNPDK20120222_170128_000000433112_00041_52210_5467.N1	22-FEB-2012 17:01:28	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52210	No
23	GOM_TRA_1PNPDK20120222_181259_000000383112_00041_52210_5489.N1	22-FEB-2012 18:12:59	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	52210	No
24	GOM_TRA_1PNPDK20120222_184143_000000513112_00042_52211_5490.N1	22-FEB-2012 18:41:43	Dark	51.000	10	Bet Cen	0.61000	28000.	102	52211	No
25	GOM_TRA_1PNPDK20120222_184524_000000253112_00042_52211_5491.N1	22-FEB-2012 18:45:24	Dark	24.500	26	Gam Cru	1.6240	2900.0	49	52211	No
26	GOM_TRA_1PNPDK20120222_201013_000000443112_00042_52211_5511.N1	22-FEB-2012 20:10:13	Dark	44.000	178	lot1Sco	3.0220	6550.0	88	52211	No
27	GOM_TRA_1PNPDK20120222_202157_000000463112_00043_52212_5512.N1	22-FEB-2012 20:21:57	Dark	45.500	10	Bet Cen	0.61000	28000.	91	52212	No
28	GOM_TRA_1PNPDK20120222_202538_000000273112_00043_52212_5513.N1	22-FEB-2012 20:25:38	Dark	26.500	26	Gam Cru	1.6240	2900.0	53	52212	No
29	GOM_TRA_1PNPDE20120222_215129_000000423112_00043_52212_1104.N1	22-FEB-2012 21:51:29	Dark	41.500	40	The Sco	1.8590	7100.0	83	52212	No
30	GOM_TRA_1PNPDE20120222_220212_000000473112_00044_52213_1105.N1	22-FEB-2012 22:02:12	Dark	46.500	10	Bet Cen	0.61000	28000.	93	52213	No
31	GOM_TRA_1PNPDE20120222_220553_000000283112_00044_52213_1106.N1	22-FEB-2012 22:05:53	Dark	27.500	26	Gam Cru	1.6240	2900.0	55	52213	No
32	GOM_TRA_1PNPDE20120222_233143_000000413112_00044_52213_1130.N1	22-FEB-2012 23:31:43	Dark	41.000	40	The Sco	1.8590	7100.0	82	52213	No
33	GOM_TRA_1PNPDE20120222_234226_000000433112_00045_52214_1131.N1	22-FEB-2012 23:42:26	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52214	No
34	GOM_TRA_1PNPDE20120222_234607_000000293112_00045_52214_1132.N1	22-FEB-2012 23:46:07	Dark	28.500	26	Gam Cru	1.6240	2900.0	57	52214	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.

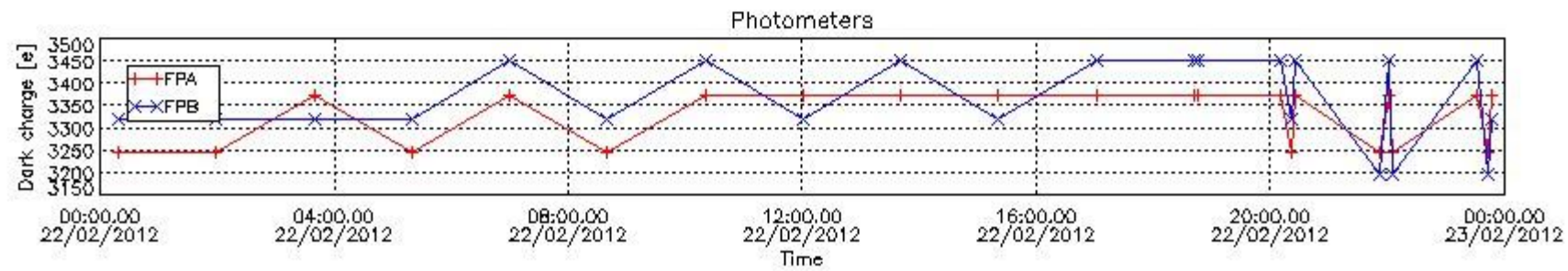
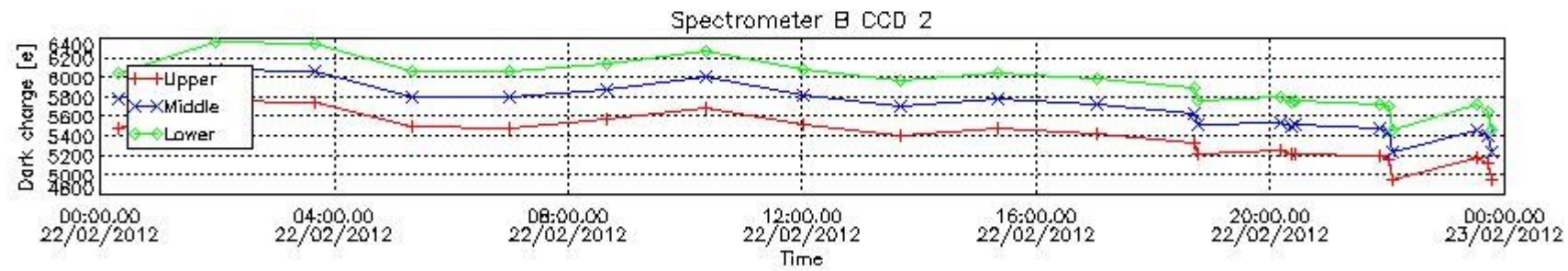
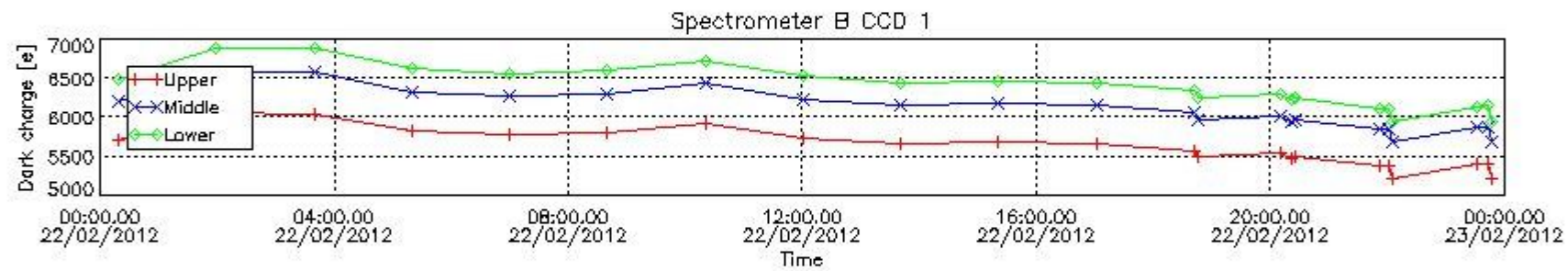
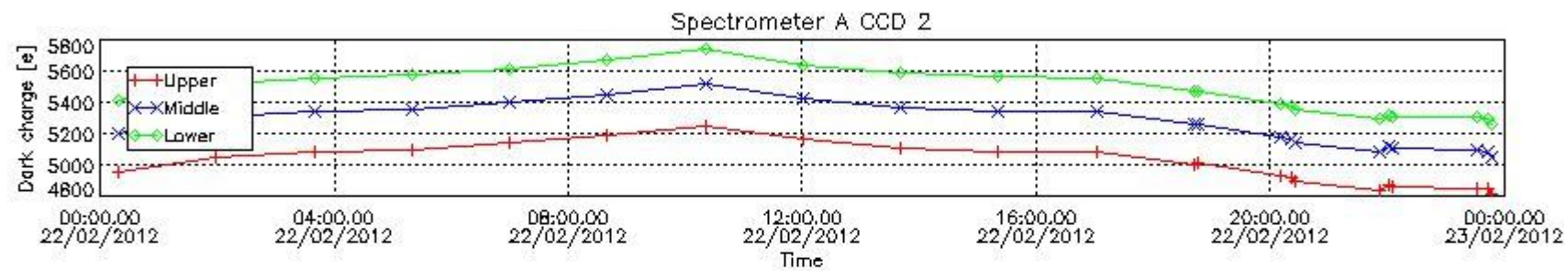
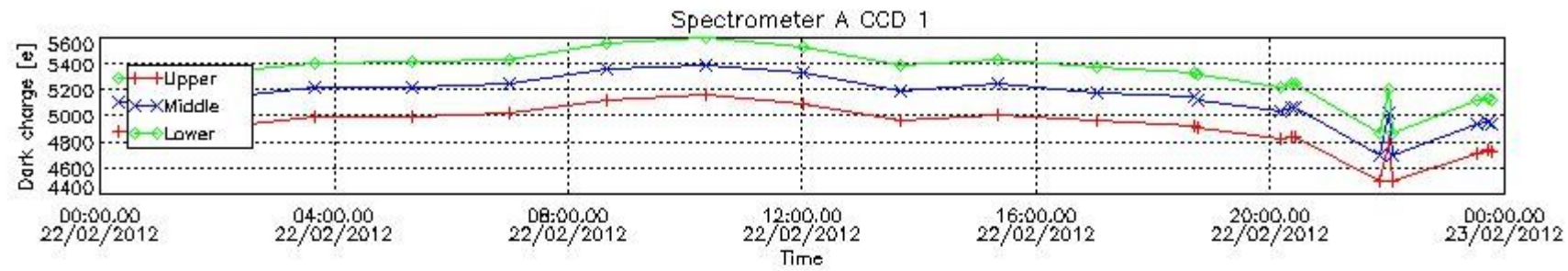
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20120222_001903_000000513112_00031_52200_0756.N1	DC map used
GOM_TRA_1PNPDE20120222_004023_000000473112_00031_52200_0757.N1	DC map used
GOM_TRA_1PNPDE20120222_015917_000000473112_00032_52201_0788.N1	DC map used
GOM_TRA_1PNPDE20120222_022037_000000483112_00032_52201_0789.N1	DC map used
GOM_TRA_1PNPDE20120222_033932_000000523112_00033_52202_0836.N1	DC map used
GOM_TRA_1PNPDE20120222_040051_000000473112_00033_52202_0837.N1	DC map used
GOM_TRA_1PNPDE20120222_051946_000000473112_00034_52203_0877.N1	DC map used
GOM_TRA_1PNPDE20120222_054105_000000463112_00034_52203_0878.N1	DC map used
GOM_TRA_1PNPDK20120222_070001_000000493112_00035_52204_5263.N1	DC map used
GOM_TRA_1PNPDK20120222_072119_000000483112_00035_52204_5295.N1	DC map used
GOM_TRA_1PNPDK20120222_084015_000000523112_00036_52205_5296.N1	DC map used
GOM_TRA_1PNPDK20120222_090133_000000483112_00036_52205_5331.N1	DC map used
GOM_TRA_1PNPDK20120222_102030_000000533112_00037_52206_5332.N1	DC map used
GOM_TRA_1PNPDK20120222_104147_000000493112_00037_52206_5365.N1	DC map used

GOM_TRA_1PNPDK20120222_113202_000000363112_00037_52206_5366.N1	DC map used
GOM_TRA_1PNPDK20120222_120044_000000533112_00038_52207_5367.N1	DC map used
GOM_TRA_1PNPDK20120222_131217_000000423112_00038_52207_5404.N1	DC map used
GOM_TRA_1PNPDK20120222_134059_000000433112_00039_52208_5405.N1	DC map used
GOM_TRA_1PNPDK20120222_145231_000000373112_00039_52208_5438.N1	DC map used
GOM_TRA_1PNPDK20120222_152113_000000473112_00040_52209_5439.N1	DC map used
GOM_TRA_1PNPDK20120222_163245_000000553112_00040_52209_5466.N1	DC map used
GOM_TRA_1PNPDK20120222_170128_000000433112_00041_52210_5467.N1	DC map used
GOM_TRA_1PNPDK20120222_181259_000000383112_00041_52210_5489.N1	DC map used
GOM_TRA_1PNPDK20120222_184143_000000513112_00042_52211_5490.N1	DC map used
GOM_TRA_1PNPDK20120222_184524_000000253112_00042_52211_5491.N1	DC map used
GOM_TRA_1PNPDK20120222_201013_000000443112_00042_52211_5511.N1	DC map used
GOM_TRA_1PNPDK20120222_202157_000000463112_00043_52212_5512.N1	DC map used
GOM_TRA_1PNPDK20120222_202538_000000273112_00043_52212_5513.N1	DC map used
GOM_TRA_1PNPDE20120222_215129_000000423112_00043_52212_1104.N1	DC map used
GOM_TRA_1PNPDE20120222_220212_000000473112_00044_52213_1105.N1	DC map used
GOM_TRA_1PNPDE20120222_220553_000000283112_00044_52213_1106.N1	DC map used
GOM_TRA_1PNPDE20120222_233143_000000413112_00044_52213_1130.N1	DC map used
GOM_TRA_1PNPDE20120222_234226_000000433112_00045_52214_1131.N1	DC map used
GOM_TRA_1PNPDE20120222_234607_000000293112_00045_52214_1132.N1	DC map used

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





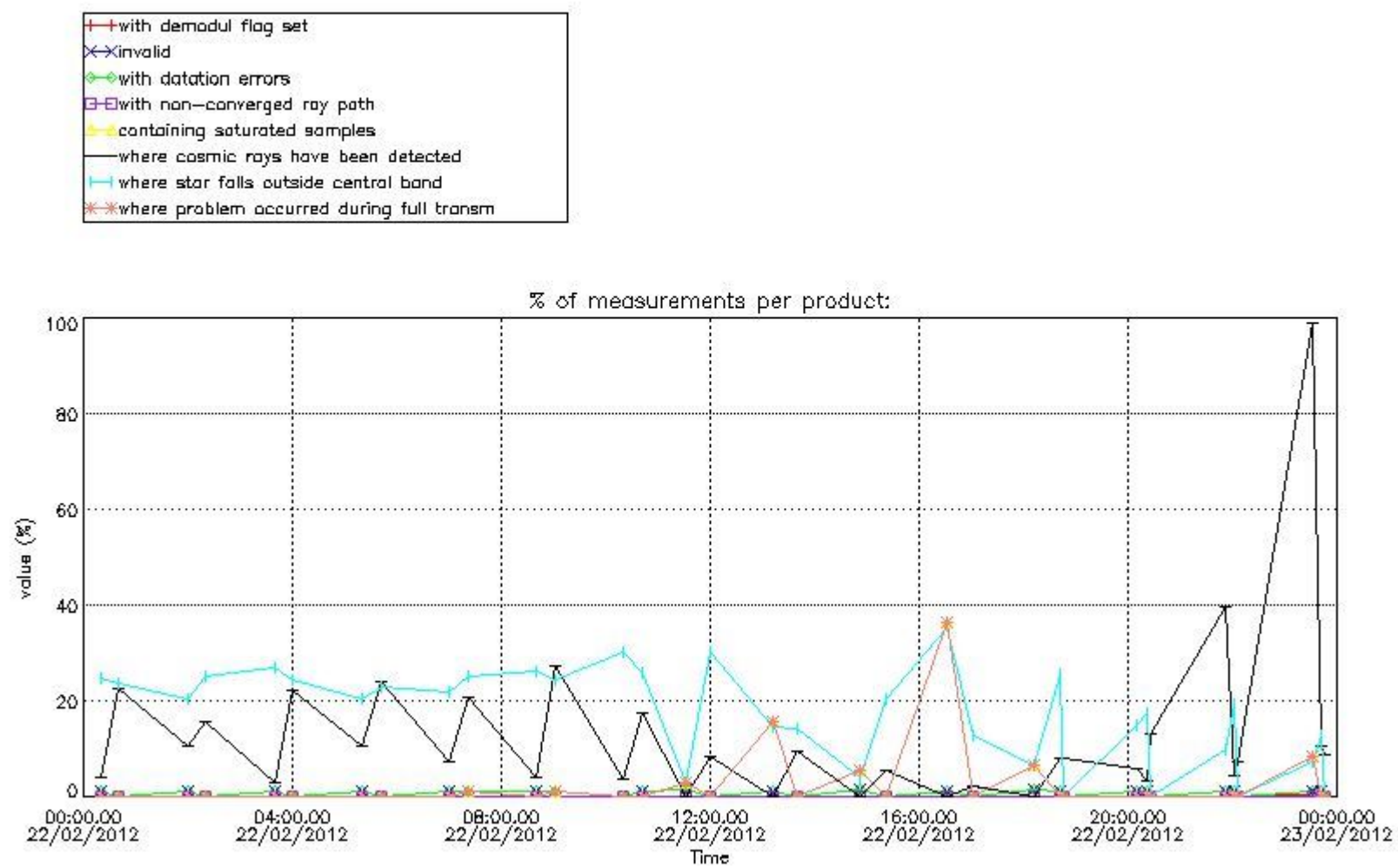
## 5. Demodulation flag and quality information monitoring

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:

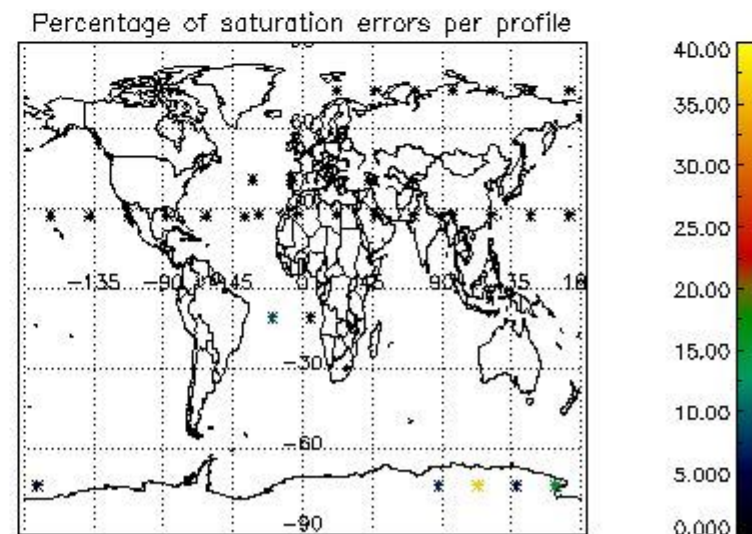
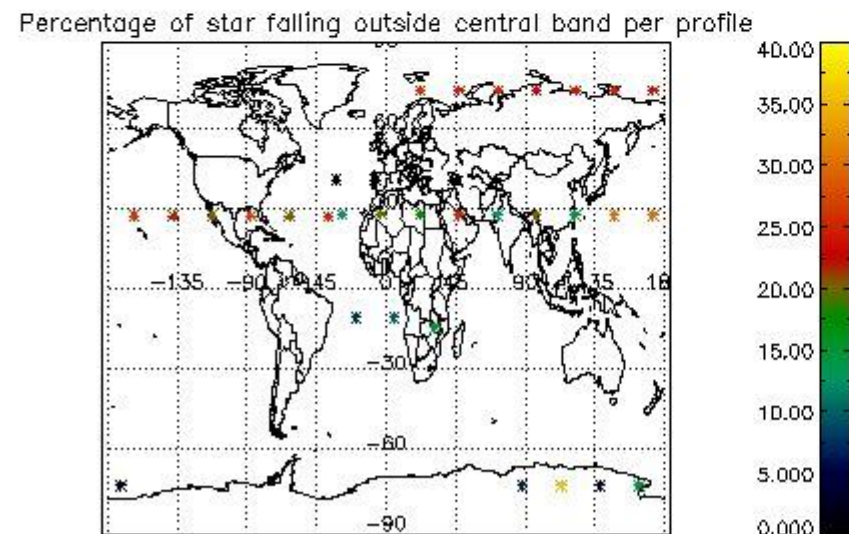
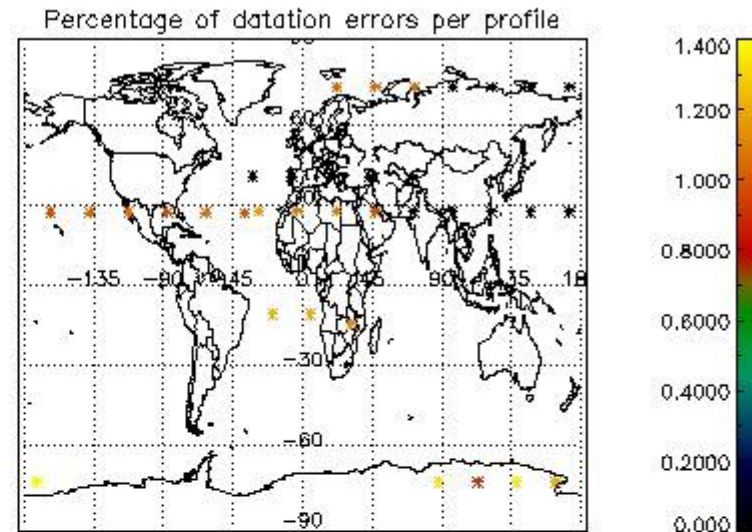
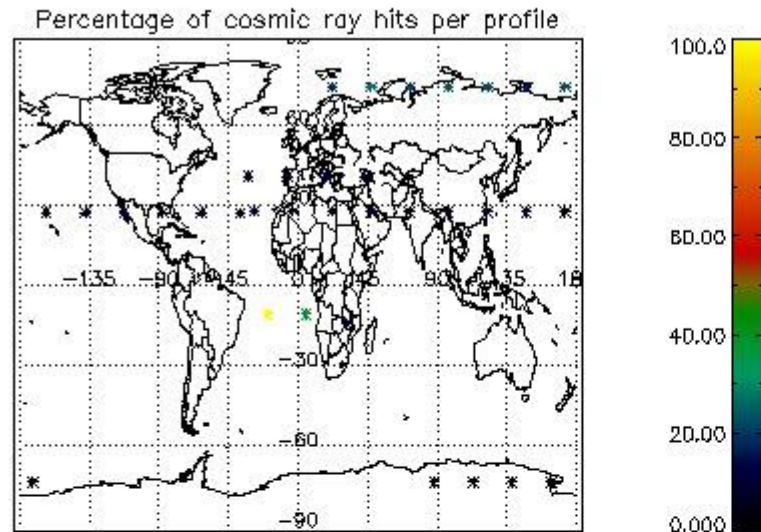
At least one measurement with demodulation flag set:	76.4706 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	14.7059 %

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)

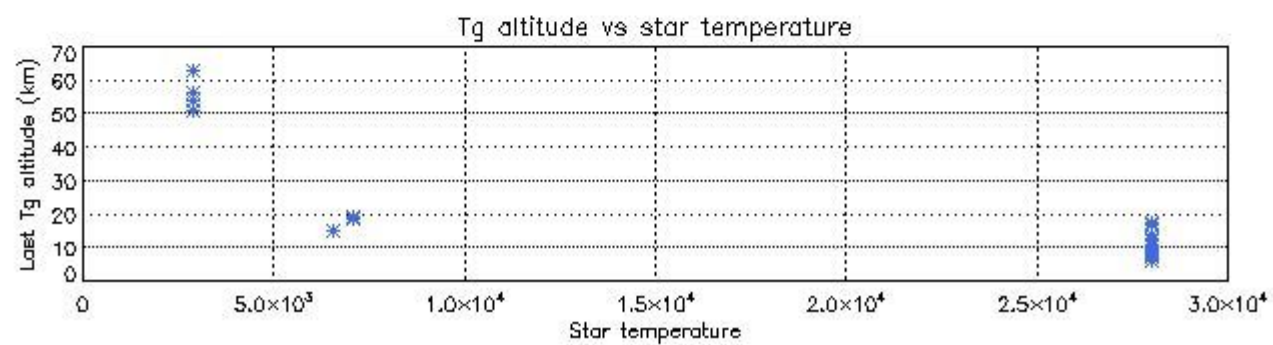
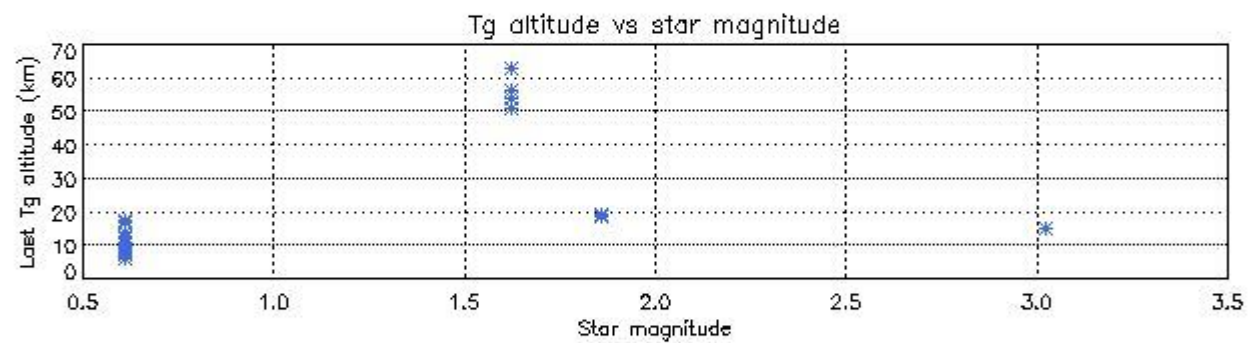
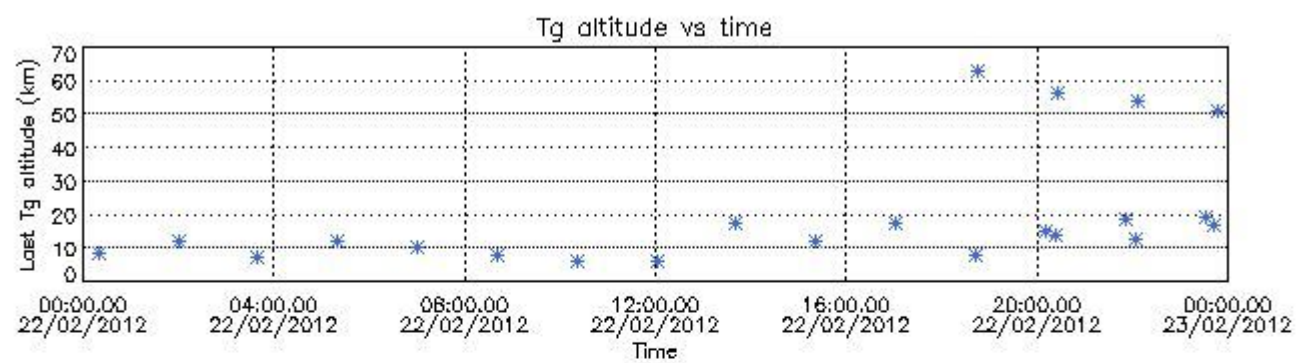
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.142	17.694	NaN
St. deviation:	17.794	8.2072	NaN
Maximum:	62.679	24.866	NaN
Minimum:	6.0462	4.4628	NaN
Number of data:	22.000	5.0000	NaN

### 6.2 Plot for DARK limb products

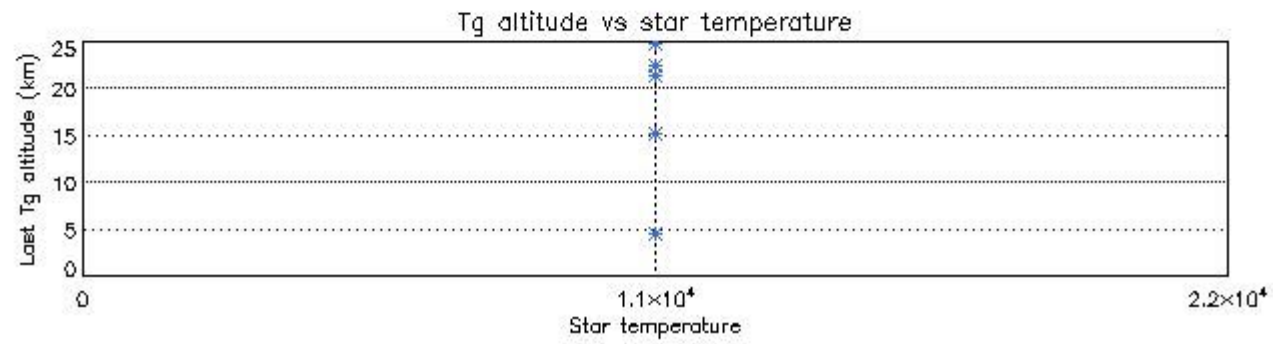
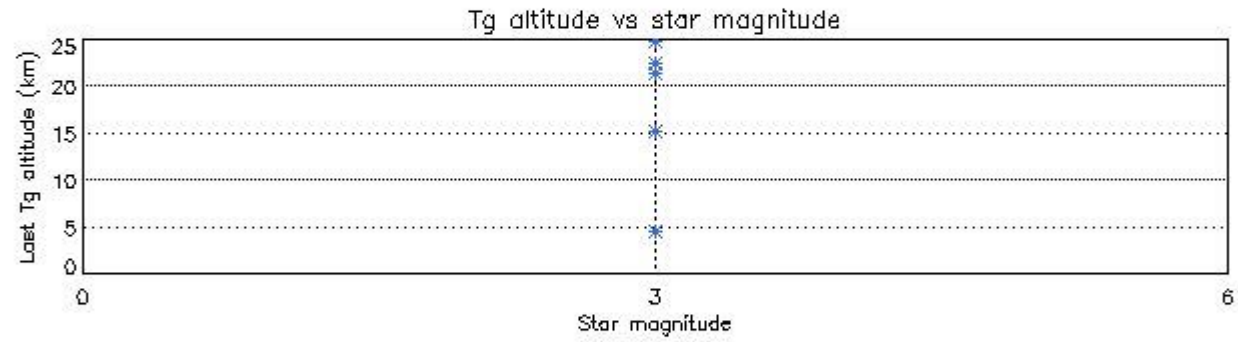
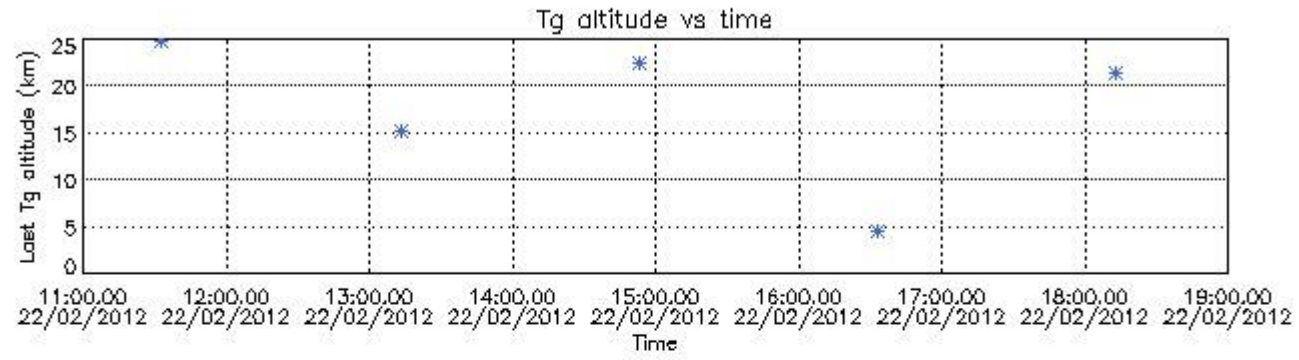


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

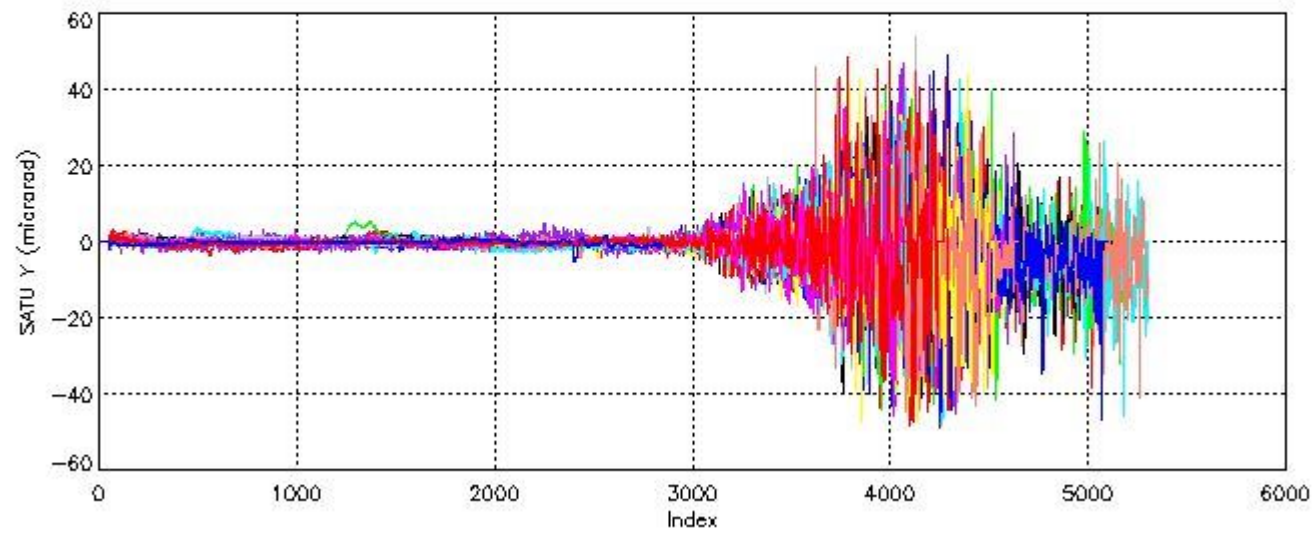
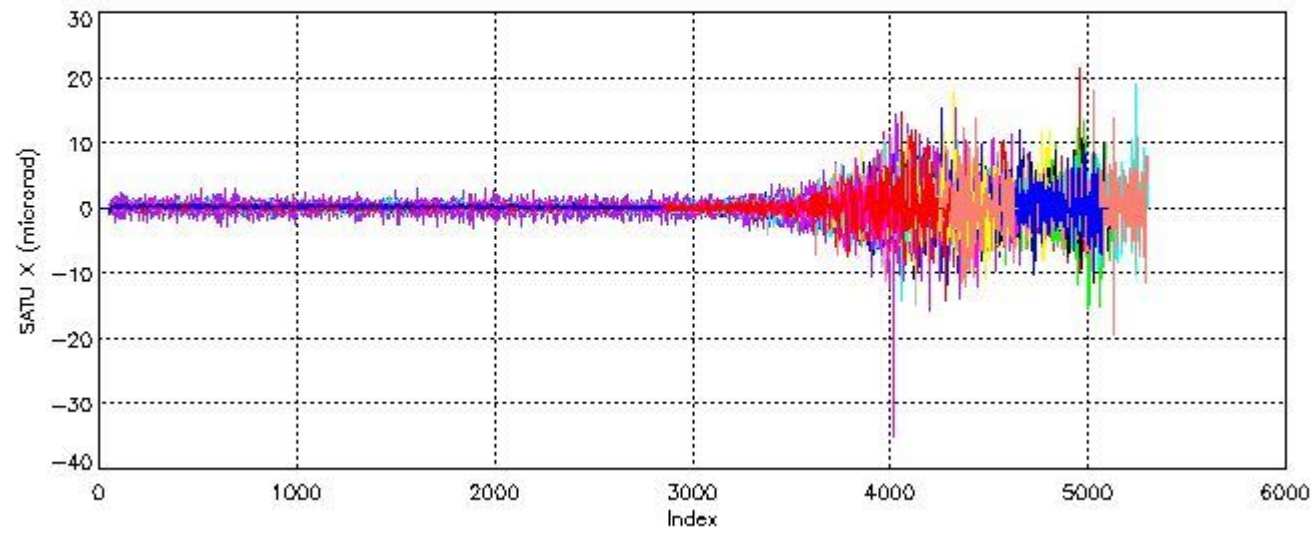


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13208	-0.20121	-0.018511	-0.14889
St. deviation:	0.26445	0.55699	1.4730	1.7423
Maximum:	3.1000	3.5000	5.3000	6.9000
Minimum:	-2.7000	-3.8000	-6.2000	-5.8000

Number of data:	21300.	21300.	4500.0	4500.0
90Percentile:	0.40000	0.60000	1.9000	2.1000

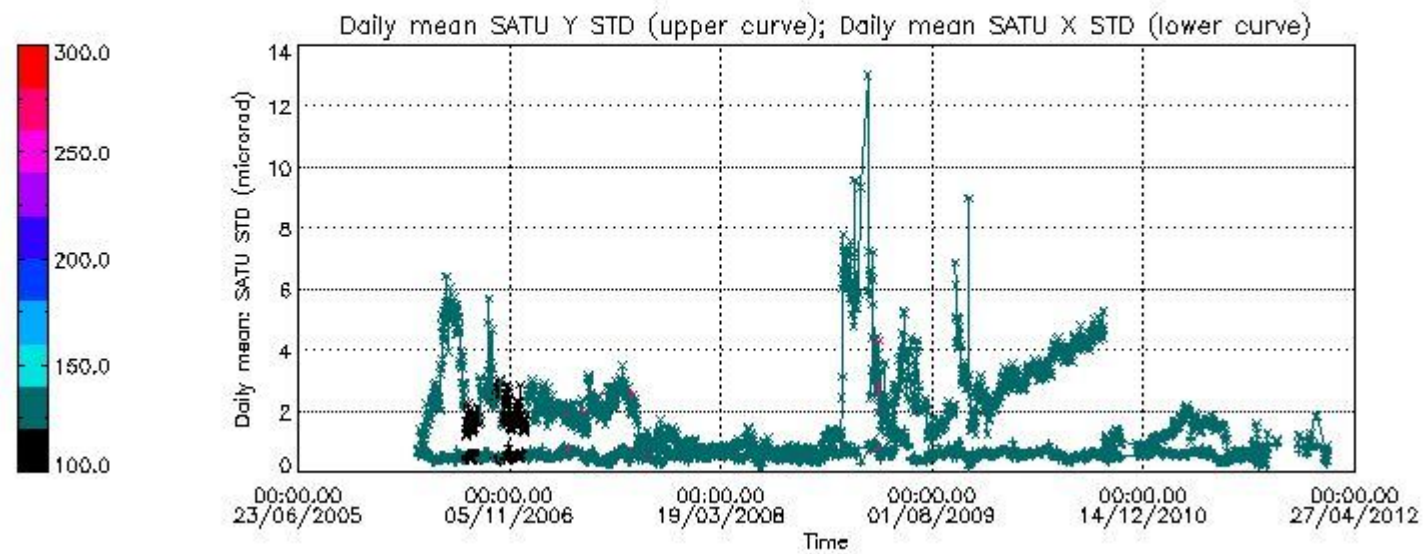
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

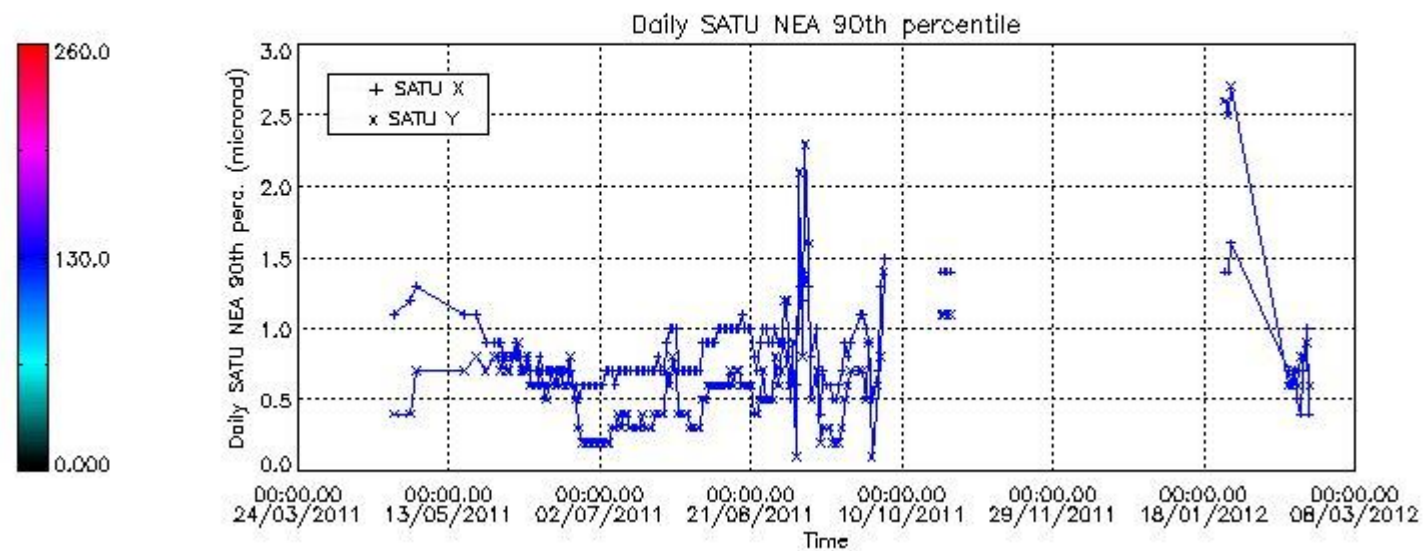
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

Upper curve: 90th percentile of SATU X axis

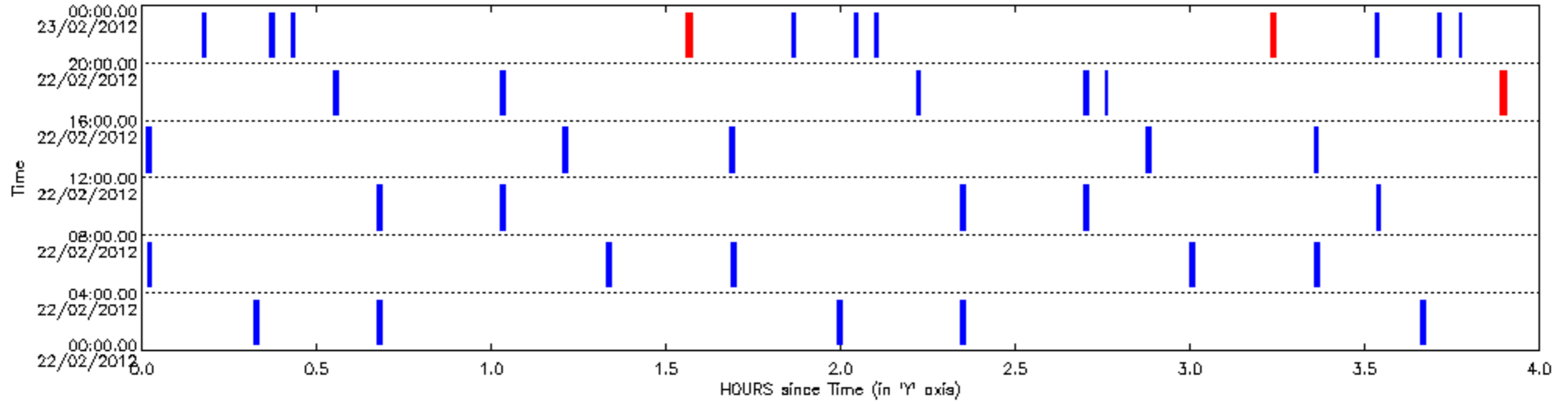


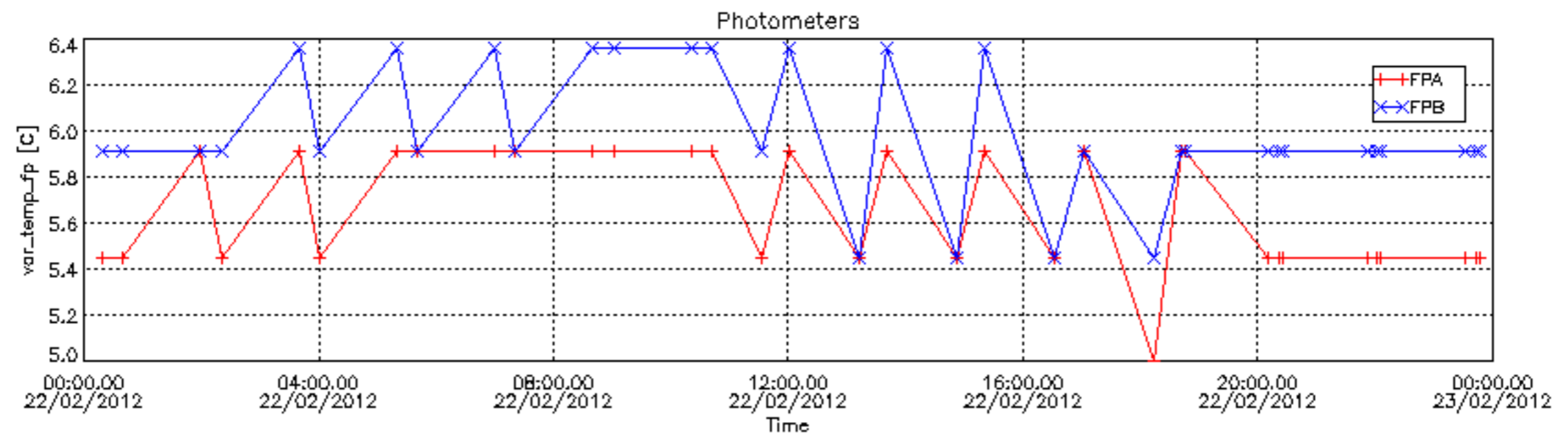
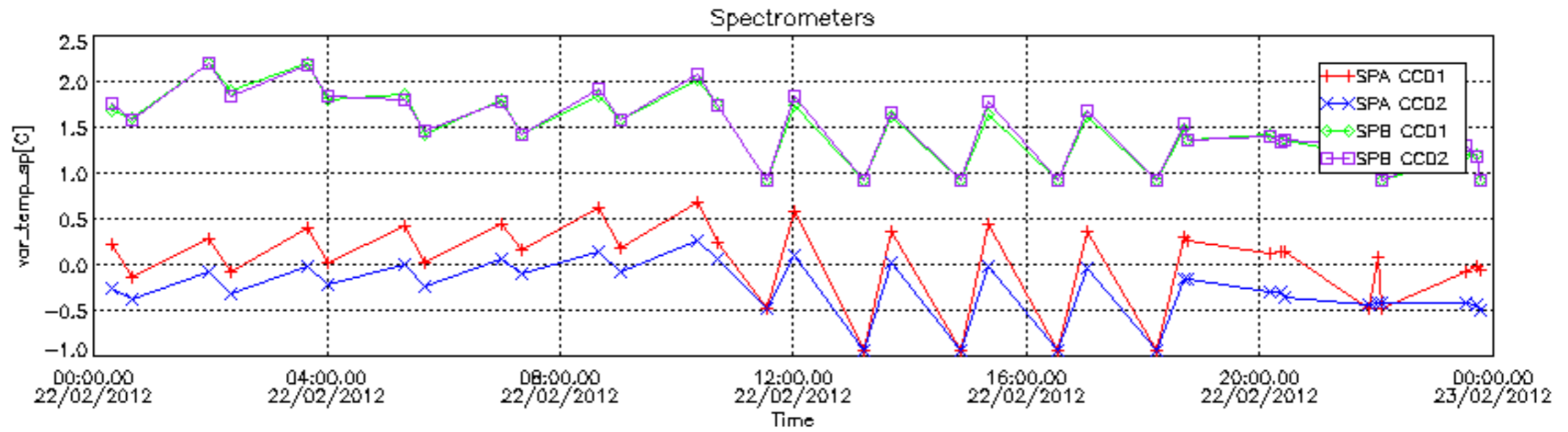
### 8. Auxiliary Data Files used for the production reported in section 2.4

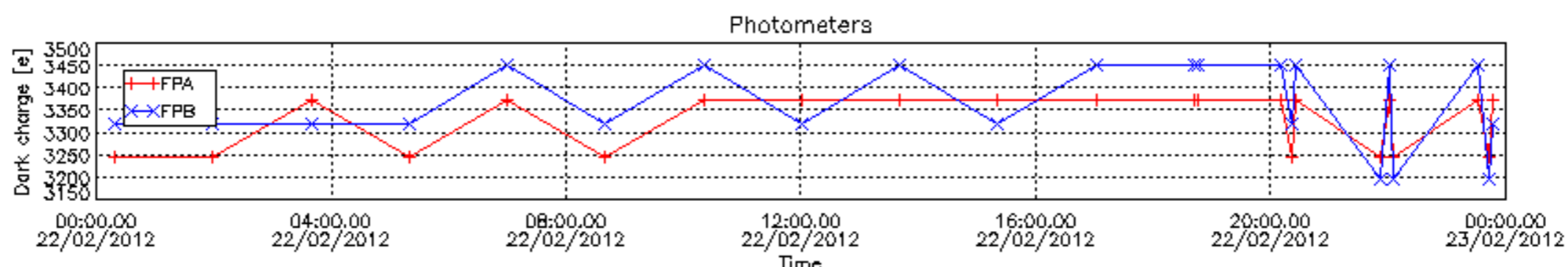
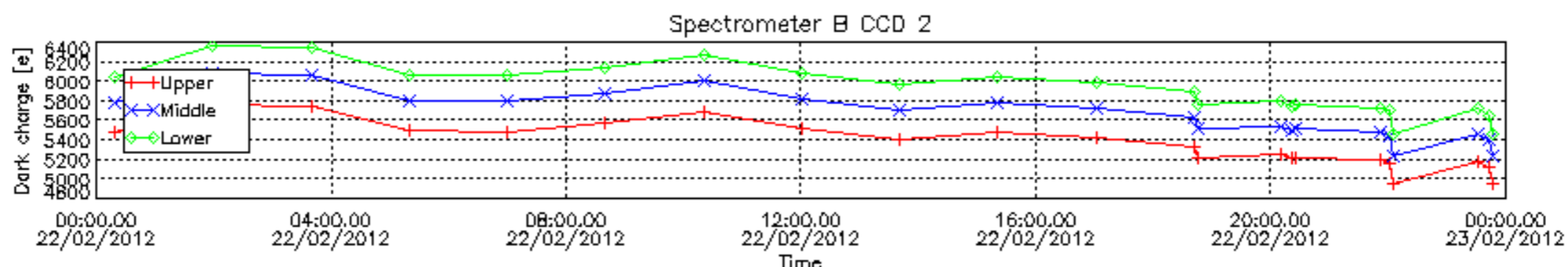
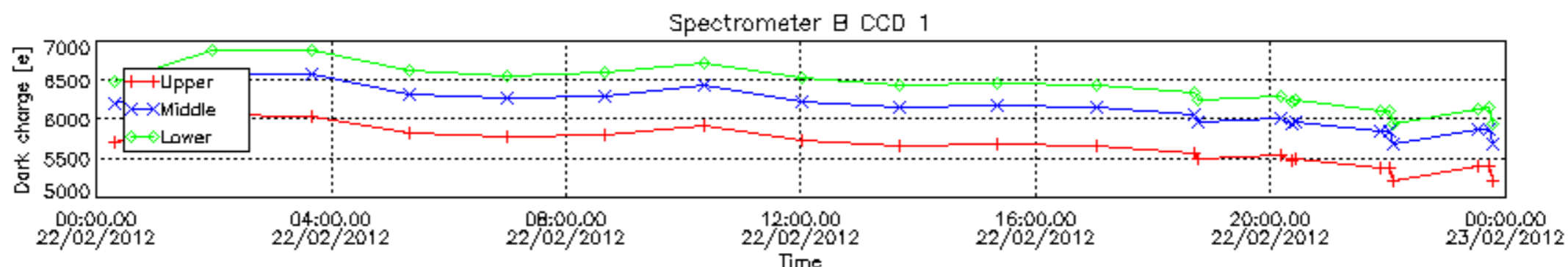
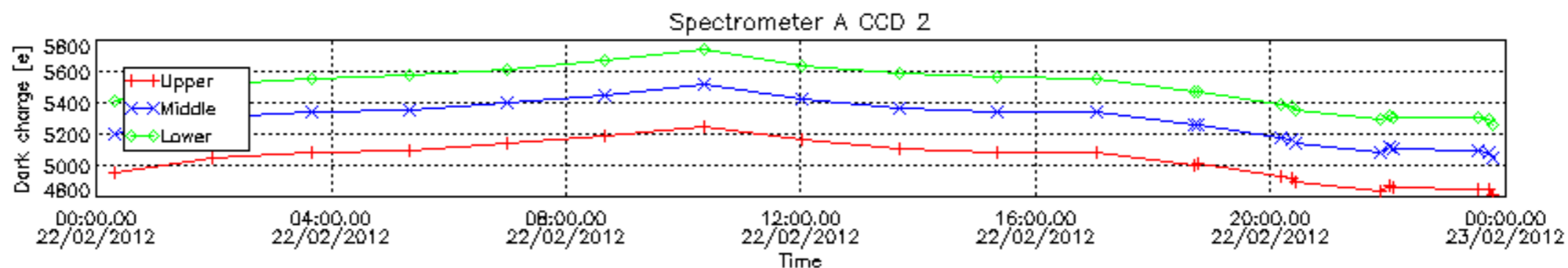
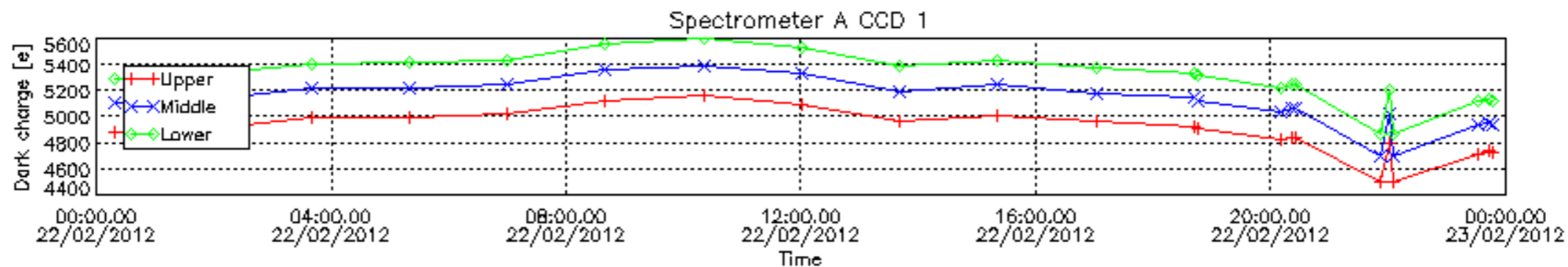


The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

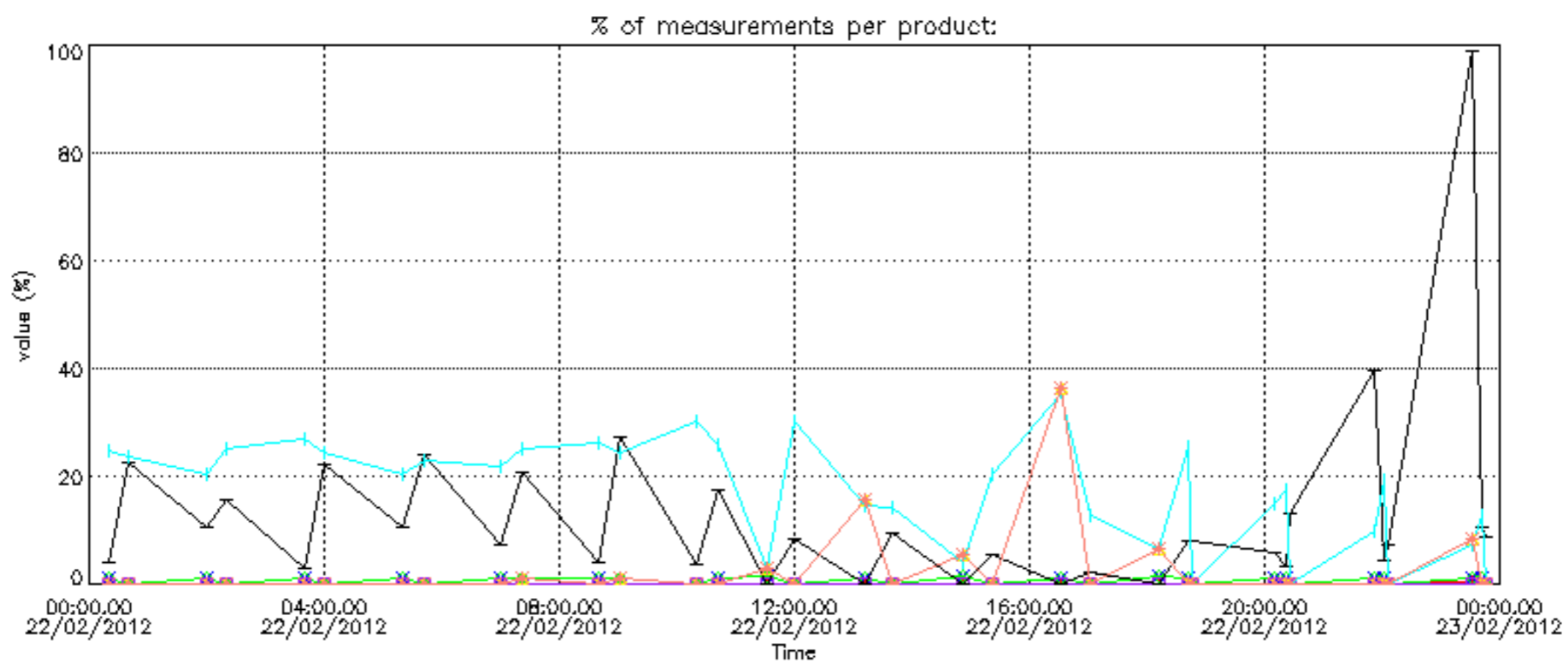
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	22-FEB-2012 00:19:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120130_103112_20120125_000000_20500101_000000	1	22-FEB-2012 00:19:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	22-FEB-2012 00:19:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-FEB-2012 00:19:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-FEB-2012 00:19:03
ECMWF_FILE	AUX_ECF_AXNECM20120221_062114_20120221_210000_20120222_090000	1	22-FEB-2012 00:19:03
ECMWF_FILE	AUX_ECF_AXNECM20120221_182114_20120222_030000_20120222_150000	5	22-FEB-2012 03:39:32
ECMWF_FILE	AUX_ECA_AXNECM20120222_062115_20120221_210000_20120222_090000	9	22-FEB-2012 07:00:01
ECMWF_FILE	AUX_ECF_AXNECM20120222_062115_20120222_090000_20120222_210000	12	22-FEB-2012 09:01:33
ECMWF_FILE	AUX_ECF_AXNECM20120222_062116_20120222_150000_20120223_030000	21	22-FEB-2012 16:32:45
ECMWF_FILE	AUX_ECF_AXNECM20120222_062116_20120222_210000_20120223_090000	29	22-FEB-2012 21:51:29
OPTIONAL_ECMWF_FILE	MISSING	1	22-FEB-2012 00:19:03
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120220_232939_20120220_194732_20120301_202055	1	22-FEB-2012 00:19:03
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120222_232929_20120221_191047_20120302_212428	32	22-FEB-2012 23:31:43



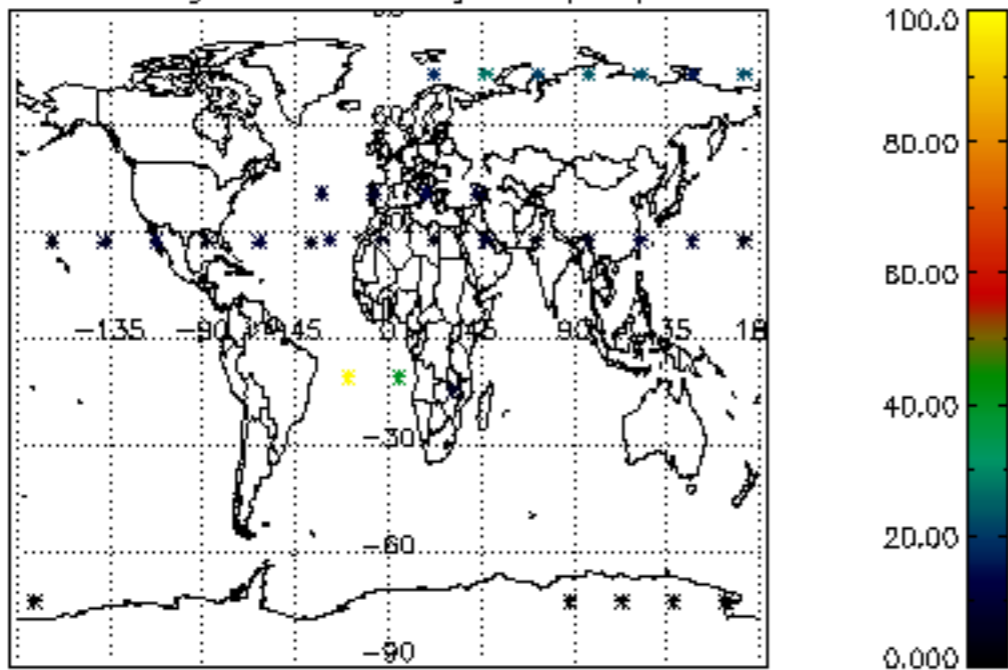




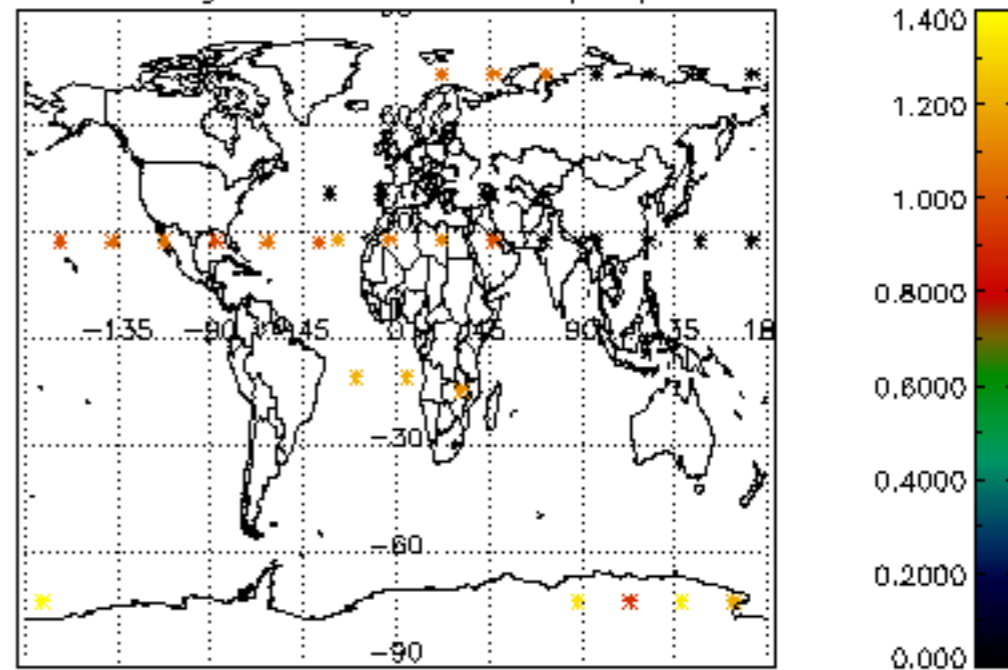




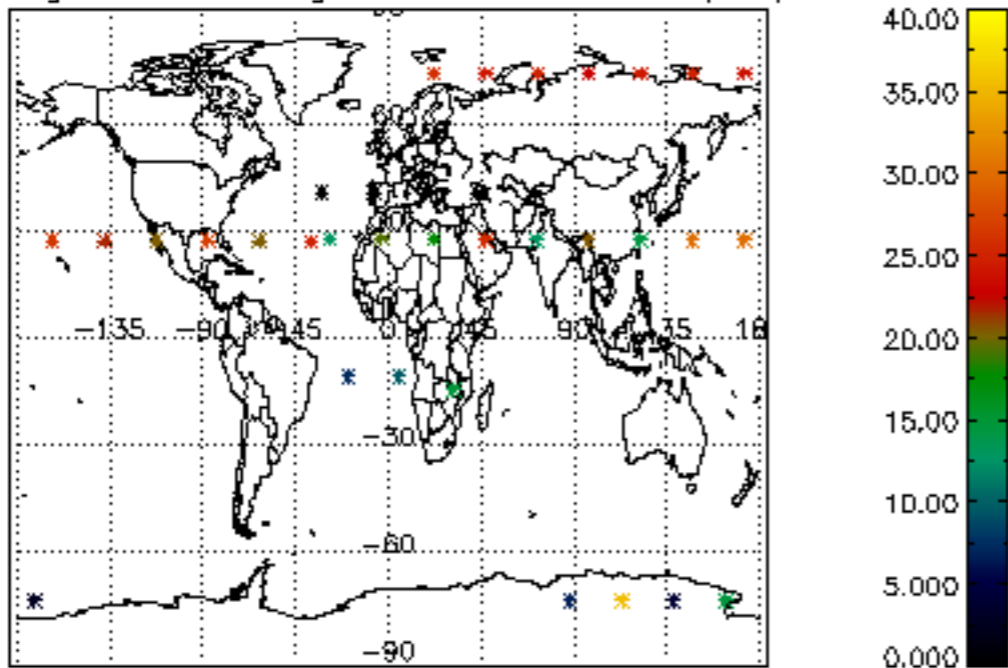
Percentage of cosmic ray hits per profile



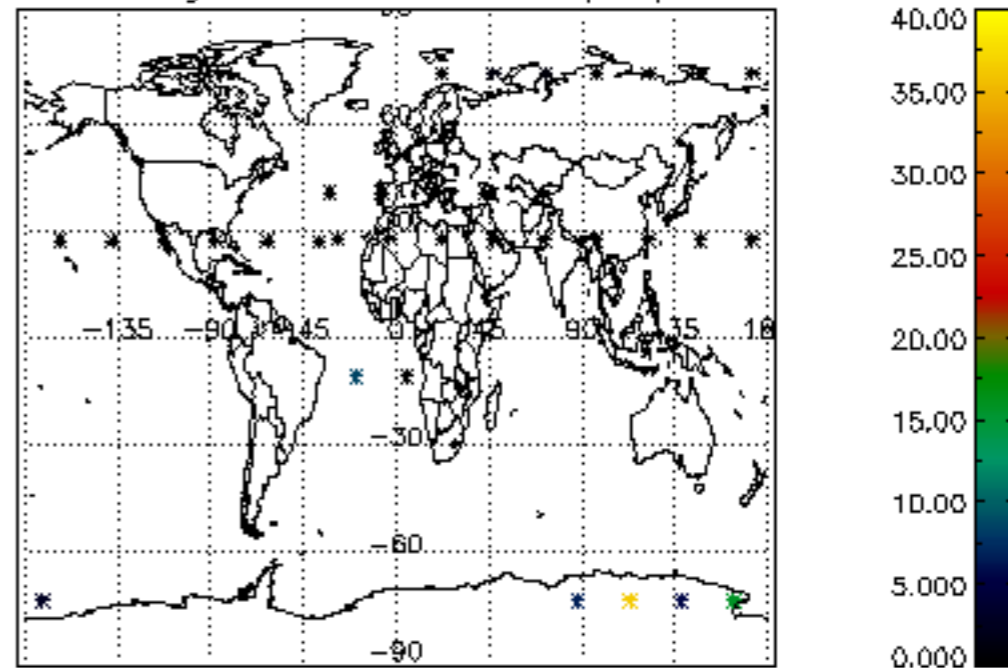
Percentage of datation errors per profile



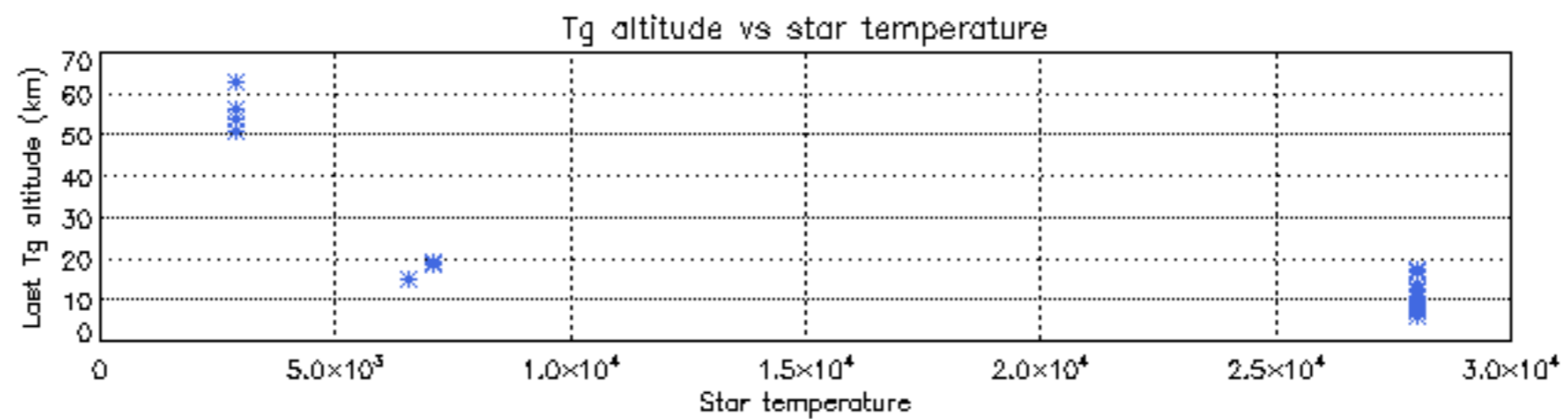
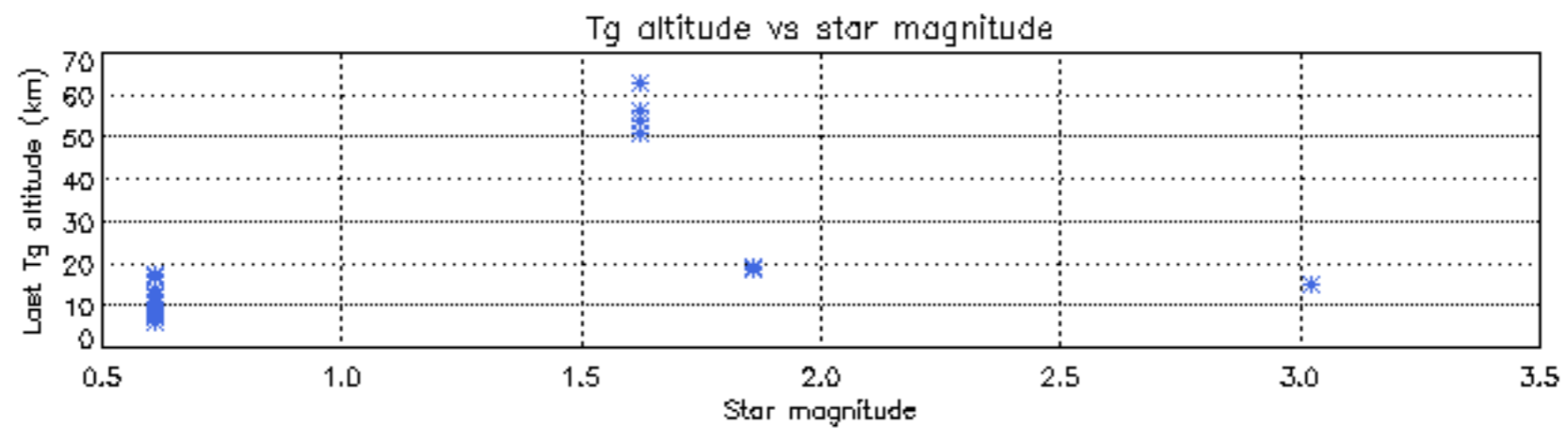
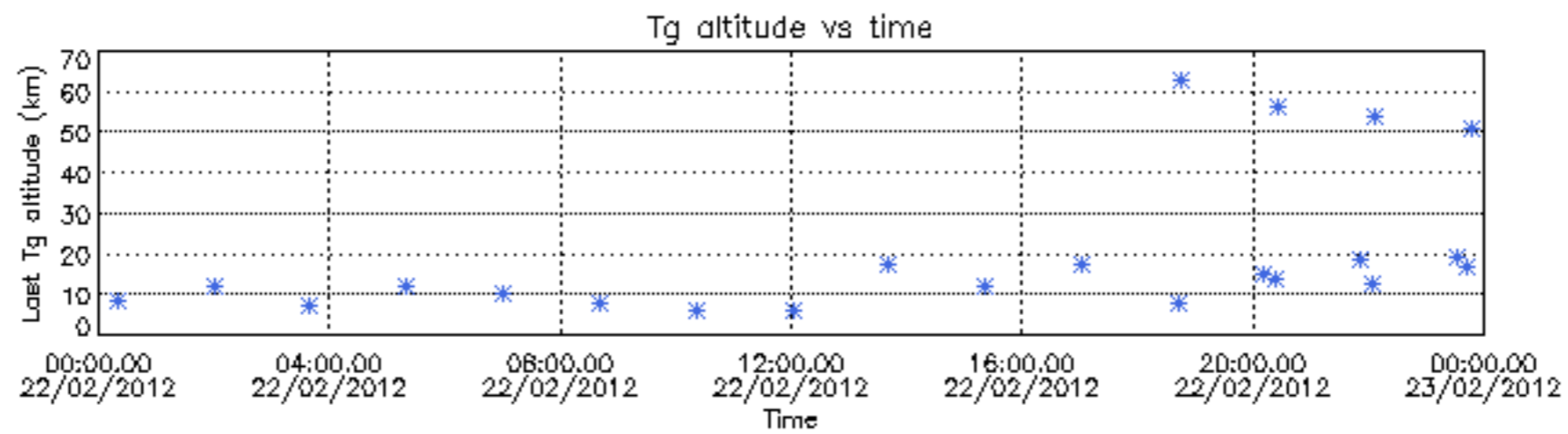
Percentage of star falling outside central band per profile



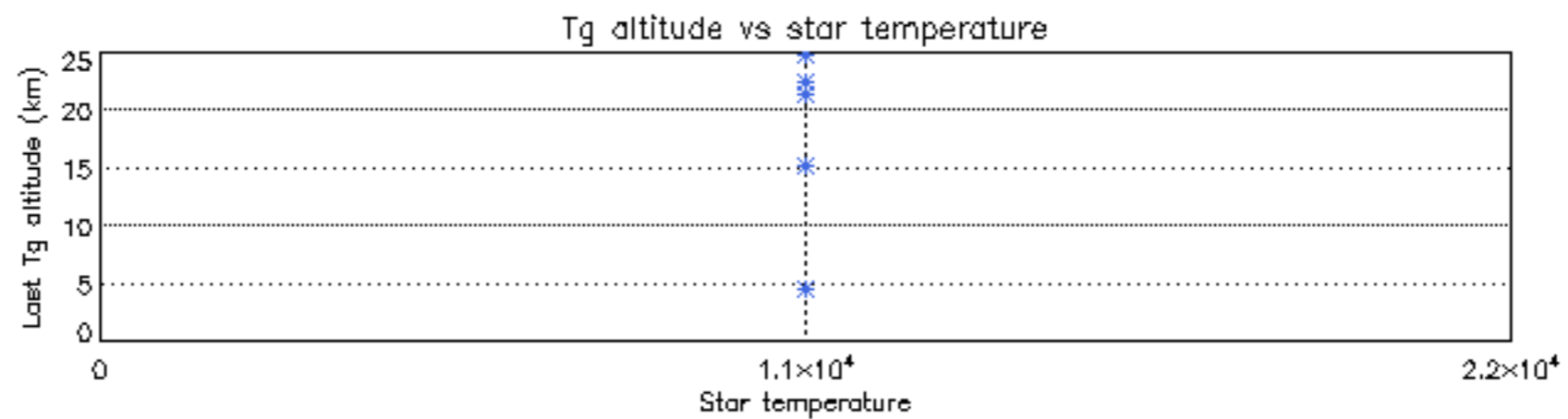
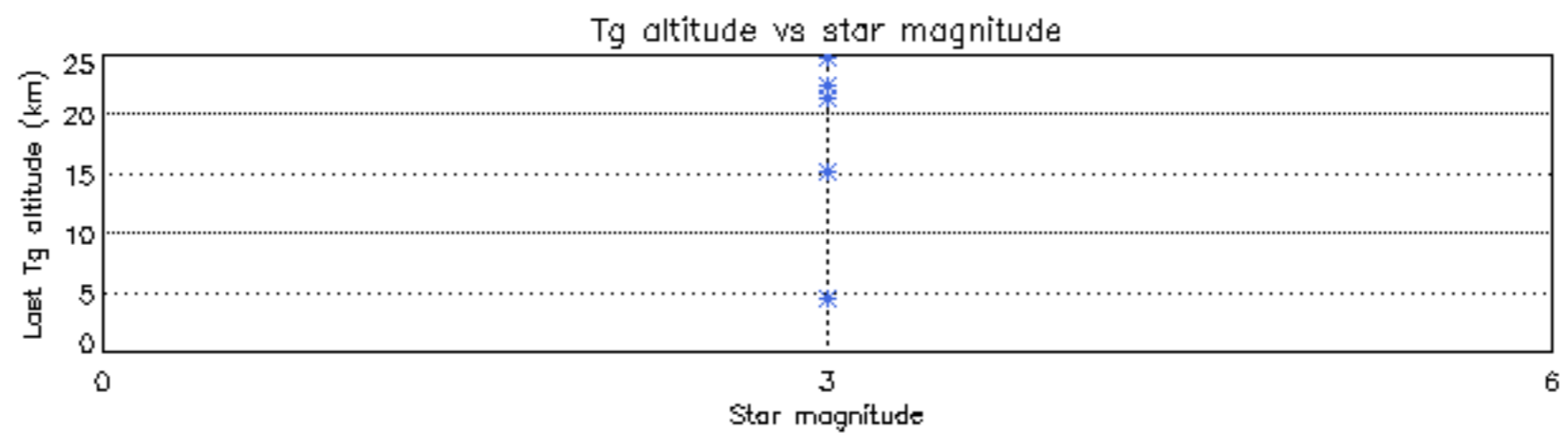
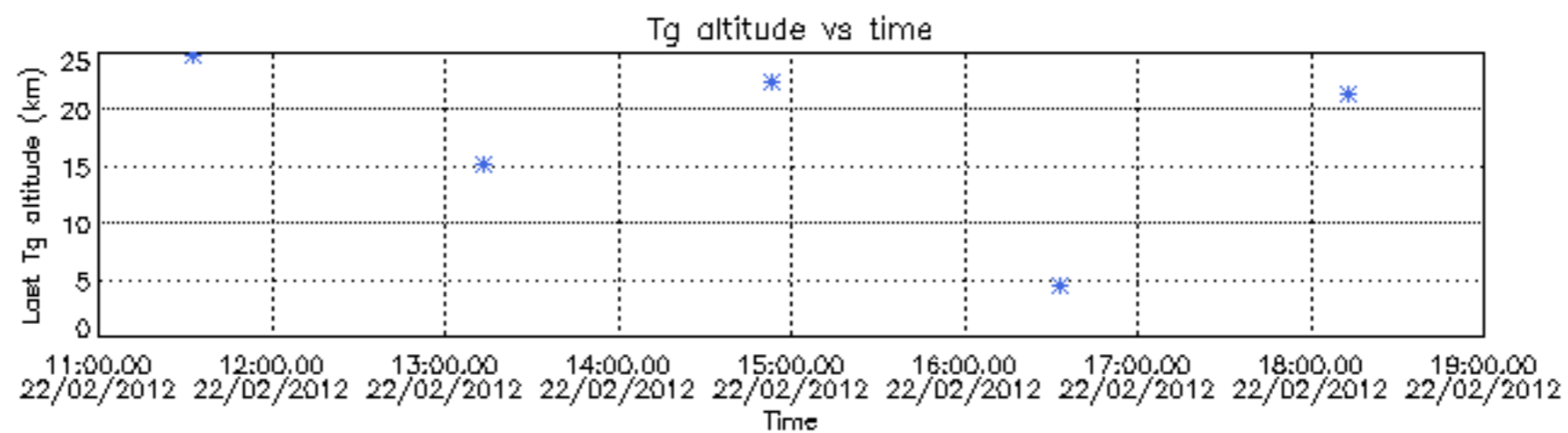
Percentage of saturation errors per profile



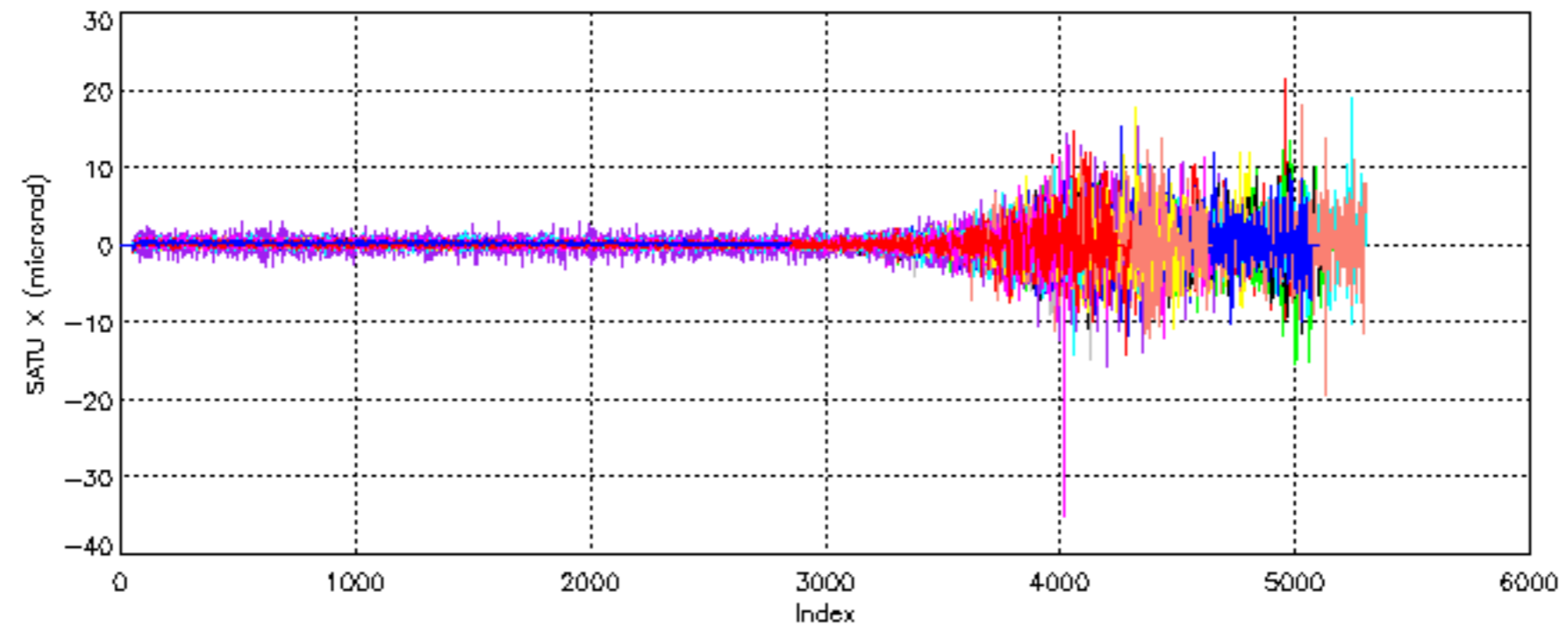
Tangent altitude at which the star is lost

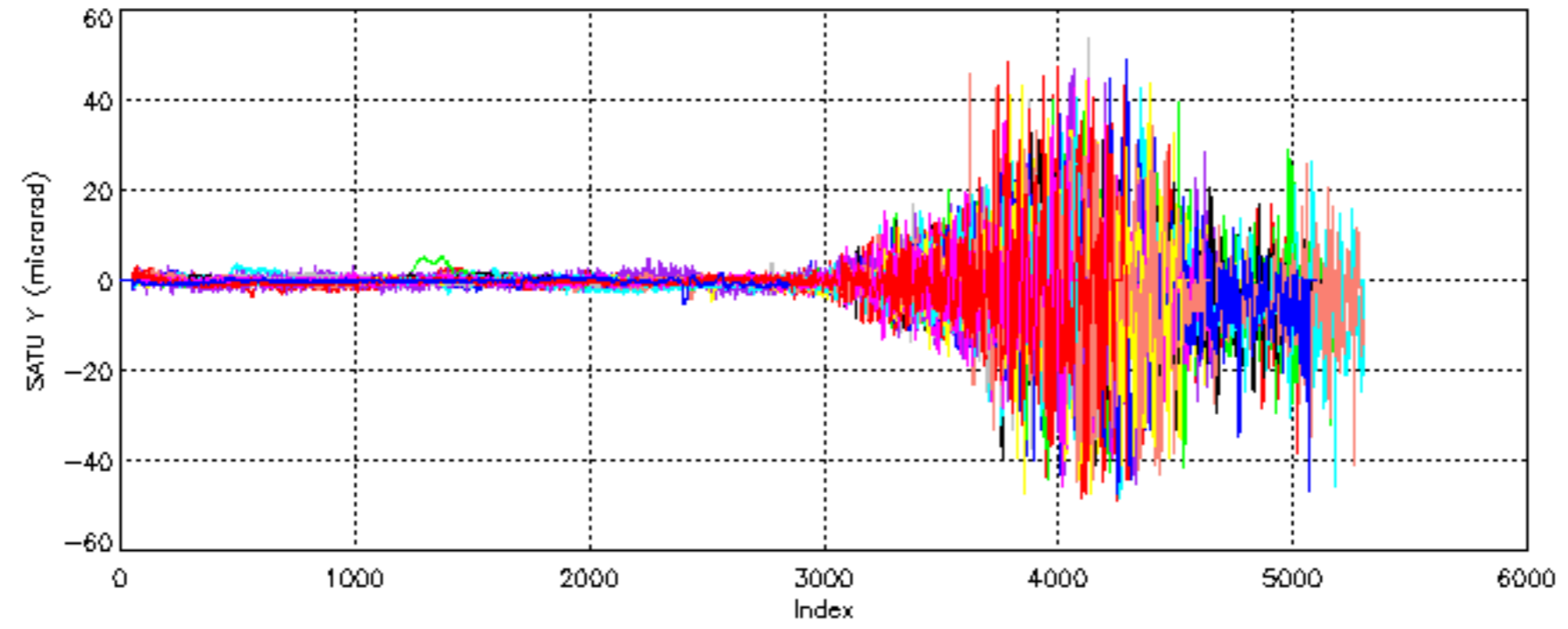


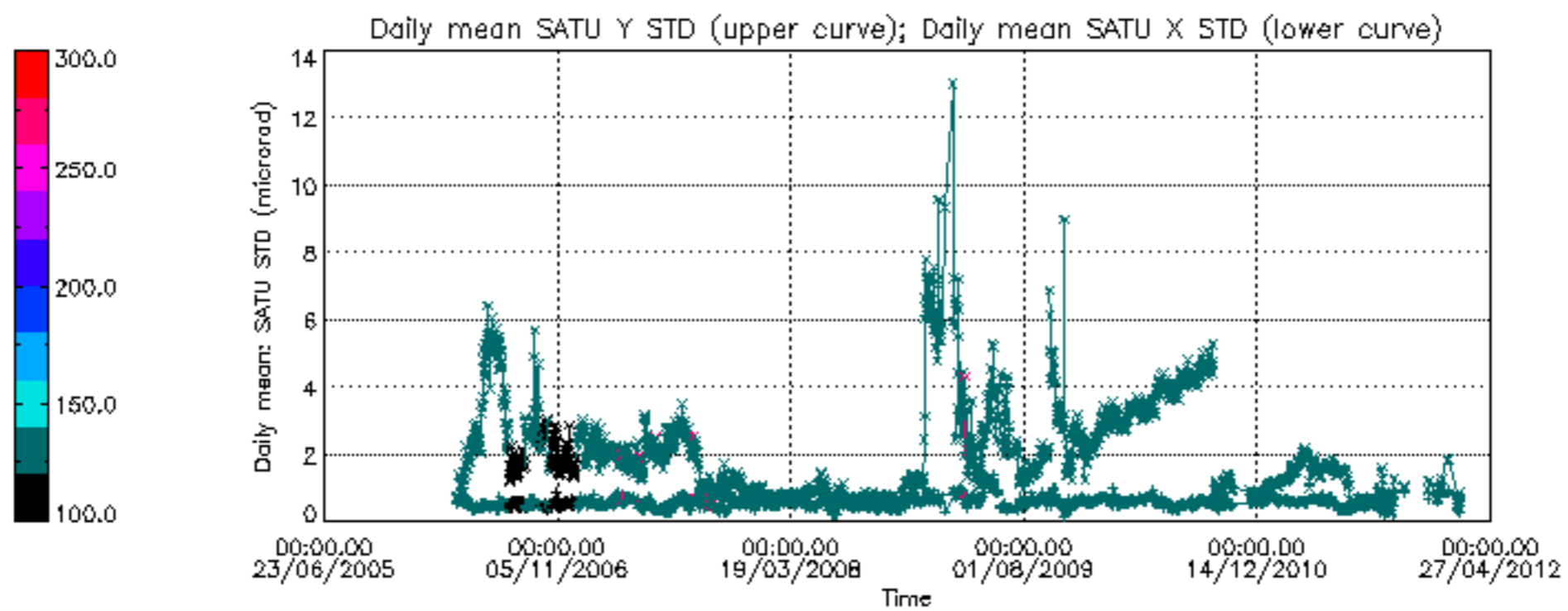
Tangent altitude at which the star is lost

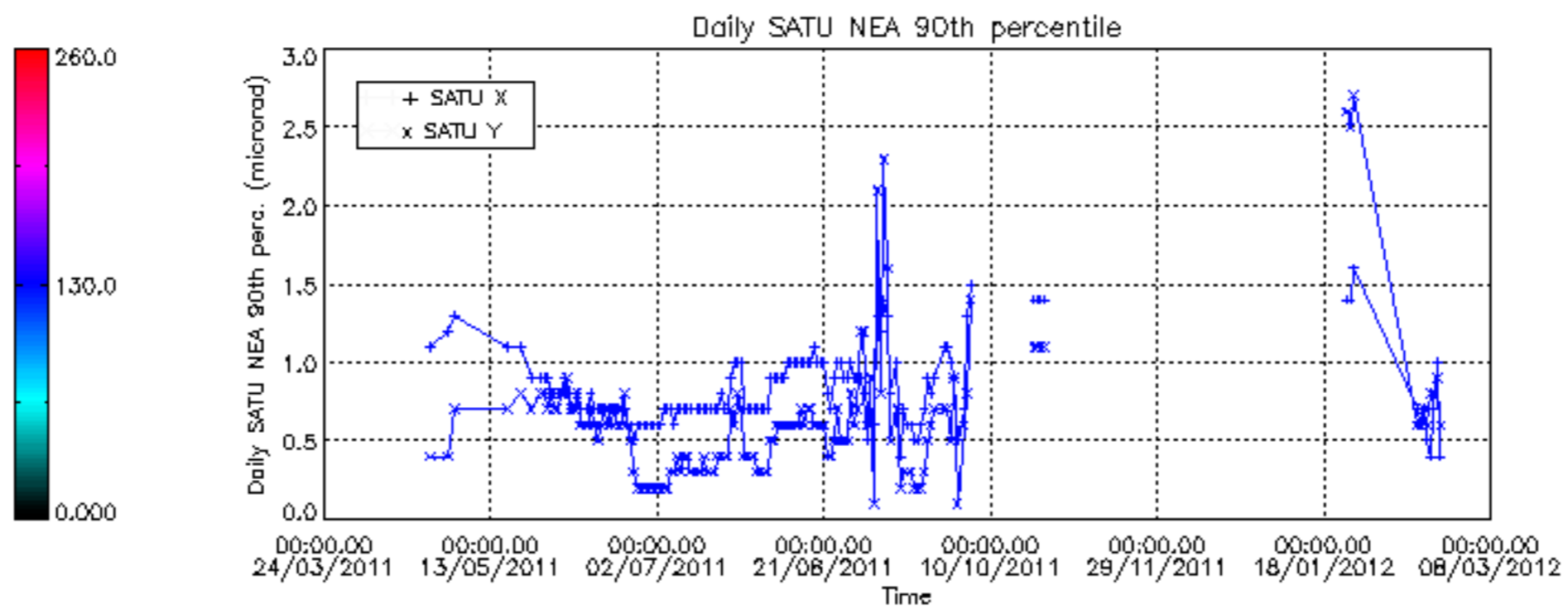












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3; 921.0; 15-FEB-2012 06:24:20; Dark ; 33.5; 113; Mu Vel ; 2.69; 5000;occ; 67; 0;52103  
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2; 569.2; 15-FEB-2012 21:20:33; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;52112  
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2; 569.8; 15-FEB-2012 23:00:48; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;52113  
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2; 573.3; 16-FEB-2012 09:02:15; Dark ; 50.5; 20; Bet Cru ; 1.25; 30000;occ; 101; 0;52119  
3; 927.9; 16-FEB-2012 09:08:09; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;52119  
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2; 405.8; 16-FEB-2012 10:39:41; Dark ; 48.0; 10; Bet Cen ; 0.61; 28000;occ; 96; 0;52120
3; 573.9; 16-FEB-2012 10:42:29; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;52120
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2; 413.1; 17-FEB-2012 06:42:35; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;52132
3; 580.6; 17-FEB-2012 06:45:23; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;52132
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120217_213251_000009253111_00402_52140_6622.N1
1; -296.5; 17-FEB-2012 21:32:51; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;52140
2; 418.6; 17-FEB-2012 21:44:46; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52141
3; 585.6; 17-FEB-2012 21:47:33; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;52141
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120217_231306_000009233111_00403_52141_6623.N1
1; -295.9; 17-FEB-2012 23:13:06; Dark ; 38.0; 25; 35Lam Sco ; 1.62; 28000;occ; 76; 0;52141
2; 419.2; 17-FEB-2012 23:25:01; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52142
3; 586.1; 17-FEB-2012 23:27:48; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;52142
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120217_081055_000009313111_00394_52132_5610.N1
1; -301.5; 17-FEB-2012 08:10:55; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;52132
2; 413.6; 17-FEB-2012 08:22:50; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52133
3; 581.1; 17-FEB-2012 08:25:37; Dark ; 49.0; 20; Bet Cru ; 1.25; 30000;occ; 98; 0;52133
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1; -301.0; 17-FEB-2012 09:51:09; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;52133
2; 414.3; 17-FEB-2012 10:03:04; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52134
3; 581.7; 17-FEB-2012 10:05:52; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;52134
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120217_113124_000009223111_00396_52134_5612.N1
1; -300.4; 17-FEB-2012 11:31:24; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;52134
2; 415.0; 17-FEB-2012 11:43:19; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52135
3; 582.3; 17-FEB-2012 11:46:06; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;52135
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120217_131138_000009273111_00397_52135_5613.N1
1; -299.7; 17-FEB-2012 13:11:38; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;52135
2; 415.6; 17-FEB-2012 13:23:33; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52136
3; 582.9; 17-FEB-2012 13:26:21; Dark ; 44.5; 20; Bet Cru ; 1.25; 30000;occ; 89; 0;52136
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120217_145153_000009243111_00398_52136_5614.N1
1; -299.0; 17-FEB-2012 14:51:53; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;52136
2; 416.1; 17-FEB-2012 15:03:48; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52137
3; 583.5; 17-FEB-2012 15:06:35; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;52137

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120217\_163207\_000009293111\_00399\_52137\_5615.N1  
1; -298.5; 17-FEB-2012 16:32:07; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;52137  
2; 416.7; 17-FEB-2012 16:44:02; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52138  
3; 584.0; 17-FEB-2012 16:46:50; Dark ; 47.5; 20; Bet Cru ; 1.25; 30000;occ; 95; 0;52138  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120217\_181222\_000009223111\_00400\_52138\_5616.N1  
1; -297.8; 17-FEB-2012 18:12:22; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;52138  
2; 417.3; 17-FEB-2012 18:24:17; Dark ; 48.0; 10; Bet Cen ; 0.61; 28000;occ; 96; 0;52139  
3; 584.6; 17-FEB-2012 18:27:04; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;52139  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120217\_195237\_000009263111\_00401\_52139\_5617.N1  
1; -297.2; 17-FEB-2012 19:52:37; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;52139  
2; 418.0; 17-FEB-2012 20:04:32; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;52140  
3; 585.1; 17-FEB-2012 20:07:19; Dark ; 44.0; 20; Bet Cru ; 1.25; 30000;occ; 88; 0;52140  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120218\_005320\_000009233111\_00404\_52142\_6624.N1  
1; -295.3; 18-FEB-2012 00:53:20; Dark ; 33.0; 25; 35Lam Sco ; 1.62; 28000;occ; 66; 0;52142  
2; 419.8; 18-FEB-2012 01:05:15; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52143  
3; 586.7; 18-FEB-2012 01:08:02; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;52143  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120218\_023335\_000009293111\_00405\_52143\_6625.N1  
1; -294.6; 18-FEB-2012 02:33:35; Dark ; 28.0; 25; 35Lam Sco ; 1.62; 28000;occ; 56; 0;52143  
2; 420.5; 18-FEB-2012 02:45:30; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52144  
3; 587.3; 18-FEB-2012 02:48:16; Dark ; 48.0; 20; Bet Cru ; 1.25; 30000;occ; 96; 0;52144  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120218\_042544\_00000503111\_00407\_52145\_6626.N1  
1; 420.9; 18-FEB-2012 04:25:44; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52145  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120218\_060559\_00000453111\_00408\_52146\_6627.N1  
1; 421.5; 18-FEB-2012 06:05:59; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52146  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120218\_224824\_00000423111\_00418\_52156\_6628.N1  
1; 427.7; 18-FEB-2012 22:48:24; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52156  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_074613\_00000493111\_00409\_52147\_5618.N1  
1; 422.2; 18-FEB-2012 07:46:13; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;52147  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_092628\_00000533111\_00410\_52148\_5619.N1  
1; 422.8; 18-FEB-2012 09:26:28; Dark ; 53.5; 10; Bet Cen ; 0.61; 28000;occ; 107; 0;52148  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_110642\_00000503111\_00411\_52149\_5620.N1  
1; 423.4; 18-FEB-2012 11:06:42; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52149  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_124657\_00000393111\_00412\_52150\_5621.N1  
1; 424.0; 18-FEB-2012 12:46:57; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;52150  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_142711\_00000433111\_00413\_52151\_5622.N1  
1; 424.6; 18-FEB-2012 14:27:11; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52151  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_160726\_00000433111\_00414\_52152\_5623.N1  
1; 425.4; 18-FEB-2012 16:07:26; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52152  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_174740\_00000453111\_00415\_52153\_5624.N1  
1; 425.9; 18-FEB-2012 17:47:40; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;52153  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_192755\_00000473111\_00416\_52154\_5625.N1  
1; 426.5; 18-FEB-2012 19:27:55; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;52154  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120218\_210810\_00000403111\_00417\_52155\_5626.N1  
1; 427.1; 18-FEB-2012 21:08:10; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52155  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_002838\_00000473111\_00419\_52157\_6629.N1  
1; 428.2; 19-FEB-2012 00:28:38; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;52157  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_020853\_00000443111\_00420\_52158\_6630.N1  
1; 428.8; 19-FEB-2012 02:08:53; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52158  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_034907\_00000443111\_00421\_52159\_6631.N1  
1; 429.4; 19-FEB-2012 03:49:07; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52159  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_052922\_00000503111\_00422\_52160\_6632.N1  
1; 430.2; 19-FEB-2012 05:29:22; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52160  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_221147\_00000413112\_00001\_52170\_6633.N1  
1; 436.1; 19-FEB-2012 22:11:47; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52170  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120219\_235202\_00000453112\_00002\_52171\_6634.N1  
1; 436.8; 19-FEB-2012 23:52:02; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;52171  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_070937\_00000463111\_00423\_52161\_5627.N1  
1; 430.8; 19-FEB-2012 07:09:37; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52161  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_084951\_00000403111\_00424\_52162\_5628.N1  
1; 431.5; 19-FEB-2012 08:49:51; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52162  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_103006\_00000523111\_00425\_52163\_5629.N1  
1; 432.0; 19-FEB-2012 10:30:06; Dark ; 53.0; 10; Bet Cen ; 0.61; 28000;occ; 106; 0;52163  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_121020\_00000423111\_00426\_52164\_5630.N1  
1; 432.5; 19-FEB-2012 12:10:20; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52164  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_135035\_00000413111\_00427\_52165\_5631.N1  
1; 433.2; 19-FEB-2012 13:50:35; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52165  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_153049\_00000393111\_00428\_52166\_5632.N1  
1; 433.8; 19-FEB-2012 15:30:49; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;52166

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_171104\_000000413111\_00429\_52167\_5633.N1  
1; 434.4; 19-FEB-2012 17:11:04; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52167

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120219\_185118\_000000413111\_00430\_52168\_5634.N1  
1; 435.0; 19-FEB-2012 18:51:18; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52168

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120220\_013216\_000060653112\_00003\_52172\_6635.N1  
1; 437.4; 20-FEB-2012 01:32:16; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52172  
2; 6452.0; 20-FEB-2012 03:12:31; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52173

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120220\_045245\_000000473112\_00005\_52174\_6636.N1  
1; 438.7; 20-FEB-2012 04:52:45; Dark ; 48.0; 10; Bet Cen ; 0.61; 28000;occ; 96; 0;52174

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120220\_063300\_000000433112\_00006\_52175\_6637.N1  
1; 439.1; 20-FEB-2012 06:33:00; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52175

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120220\_212027\_000009243112\_00014\_52183\_6638.N1  
1; -438.9; 20-FEB-2012 21:20:27; Dark ; 43.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 86; 0;52183  
2; -263.5; 20-FEB-2012 21:23:22; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;52183  
3; 444.5; 20-FEB-2012 21:35:10; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52184

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120220\_230041\_000009283112\_00015\_52184\_6639.N1  
1; -438.5; 20-FEB-2012 23:00:41; Dark ; 46.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 93; 0;52184  
2; -262.8; 20-FEB-2012 23:03:37; Dark ; 40.0; 85; Kap Sco ; 2.41; 28000;occ; 80; 0;52184  
3; 445.1; 20-FEB-2012 23:15:25; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52185

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_081315\_000000483112\_00007\_52176\_5635.N1  
1; 439.9; 20-FEB-2012 08:13:15; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;52176

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_095329\_000000483112\_00008\_52177\_5636.N1  
1; 440.4; 20-FEB-2012 09:53:29; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;52177

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_113343\_000000433112\_00009\_52178\_5637.N1  
1; 441.0; 20-FEB-2012 11:33:43; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52178

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_131358\_000000423112\_00010\_52179\_5638.N1  
1; 441.6; 20-FEB-2012 13:13:58; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52179

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_144225\_000007483112\_00010\_52179\_5639.N1  
1; -264.8; 20-FEB-2012 14:42:25; Dark ; 41.0; 85; Kap Sco ; 2.41; 28000;occ; 82; 0;52179  
2; 442.3; 20-FEB-2012 14:54:12; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52180

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_162239\_000007523112\_00011\_52180\_5640.N1  
1; -265.2; 20-FEB-2012 16:22:39; Dark ; 41.5; 85; Kap Sco ; 2.41; 28000;occ; 83; 0;52180  
2; 442.9; 20-FEB-2012 16:34:27; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52181

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_175958\_000009243112\_00012\_52181\_5641.N1  
1; -439.9; 20-FEB-2012 17:59:58; Dark ; 45.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 90; 0;52181  
2; -264.6; 20-FEB-2012 18:02:54; Dark ; 41.5; 85; Kap Sco ; 2.41; 28000;occ; 83; 0;52181  
3; 443.4; 20-FEB-2012 18:14:42; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52182

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120220\_194013\_000009263112\_00013\_52182\_5642.N1  
1; -439.4; 20-FEB-2012 19:40:13; Dark ; 42.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 84; 0;52182  
2; -264.1; 20-FEB-2012 19:43:08; Dark ; 40.5; 85; Kap Sco ; 2.41; 28000;occ; 81; 0;52182  
3; 443.9; 20-FEB-2012 19:54:56; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52183

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120221\_004056\_000009333112\_00016\_52185\_6640.N1  
1; -437.8; 21-FEB-2012 00:40:56; Dark ; 46.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 92; 0;52185  
2; 445.6; 21-FEB-2012 00:55:39; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;52186

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120221\_022406\_000007503112\_00017\_52186\_6641.N1  
1; -261.5; 21-FEB-2012 02:24:06; Dark ; 41.5; 85; Kap Sco ; 2.41; 28000;occ; 83; 0;52186  
2; 446.4; 21-FEB-2012 02:35:54; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52187

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120221\_040125\_000009363112\_00018\_52187\_6642.N1  
1; -436.6; 21-FEB-2012 04:01:25; Dark ; 39.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 79; 0;52187  
2; -260.9; 21-FEB-2012 04:04:21; Dark ; 41.5; 85; Kap Sco ; 2.41; 28000;occ; 83; 0;52187  
3; 447.1; 21-FEB-2012 04:16:09; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;52188

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120221\_054140\_000009243112\_00019\_52188\_6643.N1  
1; -436.0; 21-FEB-2012 05:41:40; Dark ; 45.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 90; 0;52188  
2; -260.1; 21-FEB-2012 05:44:35; Dark ; 41.5; 85; Kap Sco ; 2.41; 28000;occ; 83; 0;52188  
3; 447.8; 21-FEB-2012 05:56:23; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;52189

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120221\_211955\_000000353112\_00029\_52198\_6644.N1  
1; 1734.2; 21-FEB-2012 21:19:55; Dark ; 35.5; 48; 30Alp Hya ; 1.98; 4100;occ; 71; 0;52198

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2; 453.7; 21-FEB-2012 22:38:48; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52199  
3; 1734.3; 21-FEB-2012 23:00:09; Dark ; 41.5; 48; 30Alp Hya ; 1.98; 4100;occ; 83; 0;52199

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2; -259.5; 21-FEB-2012 07:24:50; Dark ; 44.5; 85; Kap Sco ; 2.41; 28000;occ; 89; 0;52189  
3; 448.4; 21-FEB-2012 07:36:38; Dark ; 48.0; 10; Bet Cen ; 0.61; 28000;occ; 96; 0;52190

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2; -258.8; 21-FEB-2012 09:05:04; Dark ; 42.0; 85; Kap Sco ; 2.41; 28000;occ; 84; 0;52190



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3; 449.0; 21-FEB-2012 09:16:52; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;52191
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2; -258.2; 21-FEB-2012 10:45:19; Dark ; 44.0; 85; Kap Sco ; 2.41; 28000;occ; 88; 0;52191
3; 449.6; 21-FEB-2012 10:57:07; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52192
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2; -257.5; 21-FEB-2012 12:25:33; Dark ; 41.0; 85; Kap Sco ; 2.41; 28000;occ; 82; 0;52192
3; 450.2; 21-FEB-2012 12:37:21; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52193
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2; -256.9; 21-FEB-2012 14:05:48; Dark ; 40.0; 85; Kap Sco ; 2.41; 28000;occ; 80; 0;52193
3; 450.7; 21-FEB-2012 14:17:36; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52194
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2; -256.2; 21-FEB-2012 15:46:03; Dark ; 41.0; 85; Kap Sco ; 2.41; 28000;occ; 82; 0;52194
3; 451.4; 21-FEB-2012 15:57:50; Dark ; 53.0; 10; Bet Cen ; 0.61; 28000;occ; 106; 0;52195
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2; -255.6; 21-FEB-2012 17:26:17; Dark ; 40.0; 85; Kap Sco ; 2.41; 28000;occ; 80; 0;52195
3; 451.9; 21-FEB-2012 17:38:05; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52196
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2; -255.2; 21-FEB-2012 19:06:32; Dark ; 35.0; 85; Kap Sco ; 2.41; 28000;occ; 70; 0;52196
3; 452.4; 21-FEB-2012 19:18:19; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52197
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2; 5759.5; 21-FEB-2012 20:46:46; Dark ; 31.0; 85; Kap Sco ; 2.41; 28000;occ; 62; 0;52197
3; 6467.1; 21-FEB-2012 20:58:34; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52198
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2; 1734.3; 22-FEB-2012 00:40:23; Dark ; 46.5; 48; 30Alp Hya ; 1.98; 4100;occ; 93; 0;52200
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2; 1734.7; 22-FEB-2012 04:00:51; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;52202
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2; 1734.8; 22-FEB-2012 05:41:05; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;52203
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2; 462.2; 22-FEB-2012 22:02:12; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52213
3; 683.2; 22-FEB-2012 22:05:53; Dark ; 27.5; 26; Gam Cru ; 1.62; 2900;occ; 55; 0;52213
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2; 462.7; 22-FEB-2012 23:42:26; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52214
3; 683.7; 22-FEB-2012 23:46:07; Dark ; 28.5; 26; Gam Cru ; 1.62; 2900;occ; 57; 0;52214
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2; 1734.8; 22-FEB-2012 07:21:19; Dark ; 21.5; 48; 30Alp Hya ; 1.98; 4100;occ; 43; 0;52204
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2; 4750.5; 22-FEB-2012 11:32:02; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;52206
3; 6472.5; 22-FEB-2012 12:00:44; Dark ; 53.0; 10; Bet Cen ; 0.61; 28000;occ; 106; 0;52207
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2; 459.9; 22-FEB-2012 15:21:13; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52209

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2; 461.0; 22-FEB-2012 18:41:43; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52211  
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2; 461.6; 22-FEB-2012 20:21:57; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52212  
3; 682.7; 22-FEB-2012 20:25:38; Dark ; 26.5; 26; Gam Cru ; 1.62; 2900;occ; 53; 0;52212  
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2; 463.4; 23-FEB-2012 01:22:40; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52215  
3; 684.3; 23-FEB-2012 01:26:21; Dark ; 30.0; 26; Gam Cru ; 1.62; 2900;occ; 60; 0;52215  
4; 6477.9; 23-FEB-2012 03:02:55; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52216  
5; 6698.8; 23-FEB-2012 03:06:36; Dark ; 31.5; 26; Gam Cru ; 1.62; 2900;occ; 63; 0;52216  
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2; 464.6; 23-FEB-2012 04:43:10; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52217  
3; 685.5; 23-FEB-2012 04:46:50; Dark ; 32.5; 26; Gam Cru ; 1.62; 2900;occ; 65; 0;52217  
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2; 465.1; 23-FEB-2012 06:23:24; Dark ; 49.0; 10; Bet Cen ; 0.61; 28000;occ; 98; 0;52218  
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2; 470.4; 23-FEB-2012 21:25:35; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52227  
3; 690.6; 23-FEB-2012 21:29:15; Dark ; 44.5; 26; Gam Cru ; 1.62; 2900;occ; 89; 0;52227  
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2; 471.0; 23-FEB-2012 23:05:49; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52228  
3; 691.0; 23-FEB-2012 23:09:29; Dark ; 46.5; 26; Gam Cru ; 1.62; 2900;occ; 93; 0;52228  
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2; 465.8; 23-FEB-2012 08:03:39; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52219  
3; 686.5; 23-FEB-2012 08:07:19; Dark ; 34.5; 26; Gam Cru ; 1.62; 2900;occ; 69; 0;52219  
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2; 466.4; 23-FEB-2012 09:43:53; Dark ; 53.5; 10; Bet Cen ; 0.61; 28000;occ; 107; 0;52220  
3; 687.1; 23-FEB-2012 09:47:34; Dark ; 36.5; 26; Gam Cru ; 1.62; 2900;occ; 73; 0;52220  
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2; 466.9; 23-FEB-2012 11:24:08; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52221  
3; 687.5; 23-FEB-2012 11:27:48; Dark ; 37.5; 26; Gam Cru ; 1.62; 2900;occ; 75; 0;52221  
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2; 467.5; 23-FEB-2012 13:04:22; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52222  
3; 688.0; 23-FEB-2012 13:08:03; Dark ; 38.5; 26; Gam Cru ; 1.62; 2900;occ; 77; 0;52222  
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2; 468.8; 23-FEB-2012 16:24:51; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52224  
3; 689.2; 23-FEB-2012 16:28:32; Dark ; 41.5; 26; Gam Cru ; 1.62; 2900;occ; 83; 0;52224  
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2; 469.4; 23-FEB-2012 18:05:06; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52225  
3; 689.7; 23-FEB-2012 18:08:46; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;52225  
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2; 469.9; 23-FEB-2012 19:45:20; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;52226  
3; 690.0; 23-FEB-2012 19:49:00; Dark ; 43.5; 26; Gam Cru ; 1.62; 2900;occ; 87; 0;52226  
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2; 471.5; 24-FEB-2012 00:46:03; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52229



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2; 472.2; 24-FEB-2012 02:26:18; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;52230
3; 692.2; 24-FEB-2012 02:29:58; Dark ; 48.5; 26; Gam Cru ; 1.62; 2900;occ; 97; 0;52230
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2; 473.5; 24-FEB-2012 05:46:47; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;52232
3; 693.4; 24-FEB-2012 05:50:27; Dark ; 47.0; 26; Gam Cru ; 1.62; 2900;occ; 94; 0;52232
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2; 479.4; 24-FEB-2012 22:29:13; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52242
3; 698.5; 24-FEB-2012 22:32:52; Dark ; 48.5; 26; Gam Cru ; 1.62; 2900;occ; 97; 0;52242
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2; 479.9; 25-FEB-2012 00:09:27; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52243
3; 698.9; 25-FEB-2012 00:13:06; Dark ; 57.0; 26; Gam Cru ; 1.62; 2900;occ; 114; 0;52243
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2; 474.2; 24-FEB-2012 07:27:02; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;52233
3; 693.9; 24-FEB-2012 07:30:42; Dark ; 46.0; 26; Gam Cru ; 1.62; 2900;occ; 92; 0;52233
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2; 474.8; 24-FEB-2012 09:07:16; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52234
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2; 475.4; 24-FEB-2012 10:47:31; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;52235
3; 695.0; 24-FEB-2012 10:51:10; Dark ; 45.0; 26; Gam Cru ; 1.62; 2900;occ; 90; 0;52235
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2; 476.0; 24-FEB-2012 12:27:45; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52236
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2; 476.5; 24-FEB-2012 14:08:00; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52237
3; 696.0; 24-FEB-2012 14:11:39; Dark ; 57.0; 26; Gam Cru ; 1.62; 2900;occ; 114; 0;52237
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2; 477.0; 24-FEB-2012 15:48:14; Dark ; 48.0; 10; Bet Cen ; 0.61; 28000;occ; 96; 0;52238
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2; 477.7; 24-FEB-2012 17:28:29; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52239
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2; 478.2; 24-FEB-2012 19:08:44; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52240
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2; 478.8; 24-FEB-2012 20:48:58; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;52241
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2; 480.5; 25-FEB-2012 01:49:42; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52244
3; 699.5; 25-FEB-2012 01:53:21; Dark ; 55.0; 26; Gam Cru ; 1.62; 2900;occ; 110; 0;52244
4; 5569.5; 25-FEB-2012 03:14:31; Dark ; 42.0; 116; 19Del Sgr ; 2.70; 4100;occ; 84; 0;52244
5; 6495.1; 25-FEB-2012 03:29:56; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52245
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2; 481.7; 25-FEB-2012 05:10:11; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52246
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2; 703.2; 25-FEB-2012 13:35:02; Dark ; 56.5; 26; Gam Cru ; 1.62; 2900;occ; 113; 0;52251  
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2; 704.8; 25-FEB-2012 18:35:45; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;52254  
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2; 706.9; 26-FEB-2012 01:16:43; Dark ; 53.5; 26; Gam Cru ; 1.62; 2900;occ; 107; 0;52258  
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1; -359.0; 28-FEB-2012 01:25:42; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;52286  
2; 505.8; 28-FEB-2012 01:40:07; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52287  
3; 5655.6; 28-FEB-2012 03:05:56; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;52287  
4; 6520.5; 28-FEB-2012 03:20:21; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52288  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120228\_044611\_000009153112\_00119\_52288\_6680.N1  
1; -357.7; 28-FEB-2012 04:46:11; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;52288  
2; 507.1; 28-FEB-2012 05:00:36; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;52289  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120228\_062626\_000009123112\_00120\_52289\_6681.N1  
1; -357.1; 28-FEB-2012 06:26:26; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;52289  
2; 507.6; 28-FEB-2012 06:40:50; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;52290  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120228\_212837\_000009063112\_00129\_52298\_6682.N1  
1; -351.4; 28-FEB-2012 21:28:37; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;52298  
2; 512.9; 28-FEB-2012 21:43:01; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52299  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_080640\_000009053112\_00121\_52290\_5704.N1  
1; -356.5; 28-FEB-2012 08:06:40; Dark ; 46.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 92; 0;52290  
2; 508.3; 28-FEB-2012 08:21:05; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52291  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_094655\_000009173112\_00122\_52291\_5705.N1  
1; -355.8; 28-FEB-2012 09:46:55; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;52291  
2; 508.8; 28-FEB-2012 10:01:19; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;52292  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_112709\_000009153112\_00123\_52292\_5706.N1  
1; -355.2; 28-FEB-2012 11:27:09; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;52292  
2; 509.4; 28-FEB-2012 11:41:34; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52293  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_144738\_000009063112\_00125\_52294\_5707.N1  
1; -354.0; 28-FEB-2012 14:47:38; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;52294  
2; 510.5; 28-FEB-2012 15:02:03; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52295  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_162753\_000009063112\_00126\_52295\_5708.N1  
1; -353.3; 28-FEB-2012 16:27:53; Dark ; 47.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 94; 0;52295  
2; 511.2; 28-FEB-2012 16:42:17; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52296  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_180808\_000009073112\_00127\_52296\_5709.N1  
1; -352.7; 28-FEB-2012 18:08:08; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;52296  
2; 511.7; 28-FEB-2012 18:22:32; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52297  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_194822\_000009083112\_00128\_52297\_5710.N1  
1; -352.1; 28-FEB-2012 19:48:22; Dark ; 37.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 74; 0;52297  
2; 512.3; 28-FEB-2012 20:02:47; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52298  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120228\_130724\_000009053112\_00124\_52293\_6008.N1  
1; -354.6; 28-FEB-2012 13:07:24; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;52293  
2; 510.0; 28-FEB-2012 13:21:48; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;52294  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120229\_010330\_00000443112\_00132\_52301\_6684.N1



1; 514.0; 29-FEB-2012 01:03:30; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52301  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120229\_024344\_000000443112\_00133\_52302\_6685.N1  
1; 514.7; 29-FEB-2012 02:43:44; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52302  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120229\_042359\_000000453112\_00134\_52303\_6686.N1  
1; 515.2; 29-FEB-2012 04:23:59; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;52303  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120229\_060414\_000000463112\_00135\_52304\_6687.N1  
1; 515.8; 29-FEB-2012 06:04:14; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52304  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120229\_224639\_000000443112\_00145\_52314\_6688.N1  
1; 521.3; 29-FEB-2012 22:46:39; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52314  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_074428\_000000393112\_00136\_52305\_5711.N1  
1; 516.4; 29-FEB-2012 07:44:28; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;52305  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_110457\_000000503112\_00138\_52307\_5713.N1  
1; 517.5; 29-FEB-2012 11:04:57; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52307  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_124512\_000000413112\_00139\_52308\_5714.N1  
1; 518.1; 29-FEB-2012 12:45:12; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52308  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_142526\_000000443112\_00140\_52309\_5715.N1  
1; 518.7; 29-FEB-2012 14:25:26; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;52309  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_160541\_000000433112\_00141\_52310\_5716.N1  
1; 519.2; 29-FEB-2012 16:05:41; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;52310  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_174555\_000000463112\_00142\_52311\_5717.N1  
1; 519.8; 29-FEB-2012 17:45:55; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;52311  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_192610\_000000443112\_00143\_52312\_5718.N1  
1; 520.2; 29-FEB-2012 19:26:10; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;52312  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120229\_210624\_000000403112\_00144\_52313\_5719.N1  
1; 520.7; 29-FEB-2012 21:06:24; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52313