

# GOMOS Daily Report 26-MAR-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	28MAR2012 07:00:48
Data source version	GOMOS/6.01
Start time of products	26MAR2012 00:15:30
Stop time of products	26MAR2012 22:49:20
Store outputs in DB	Yes
Nb of level 1b prods	46
Nb of prods with errors	0

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

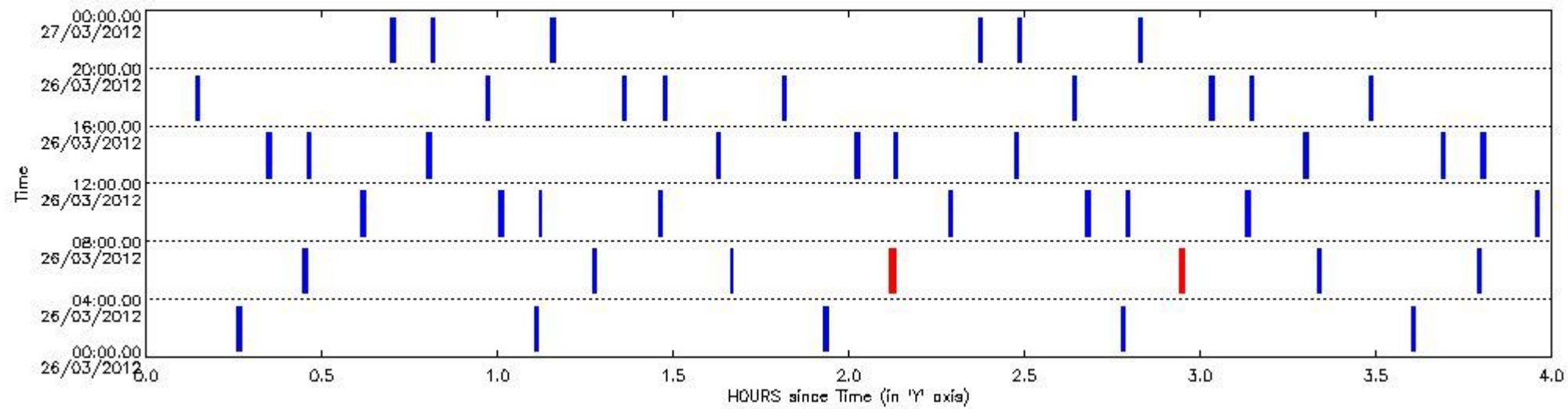
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
26-MAR-2012 06:06:56	5AlpCep	89	52677
26-MAR-2012 06:56:22	EpsCen	77	52678

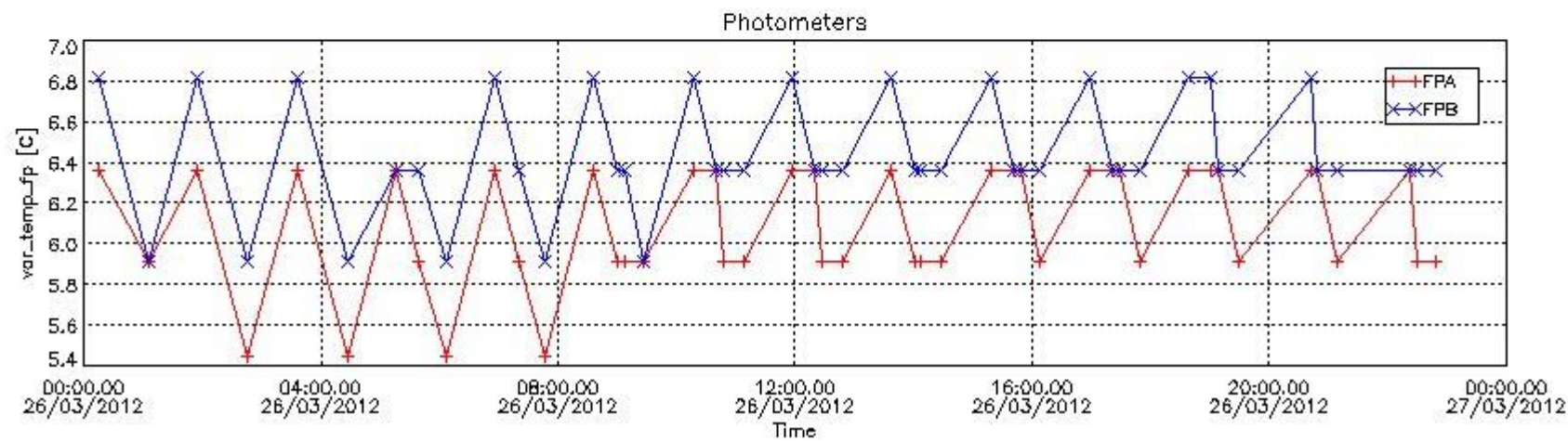
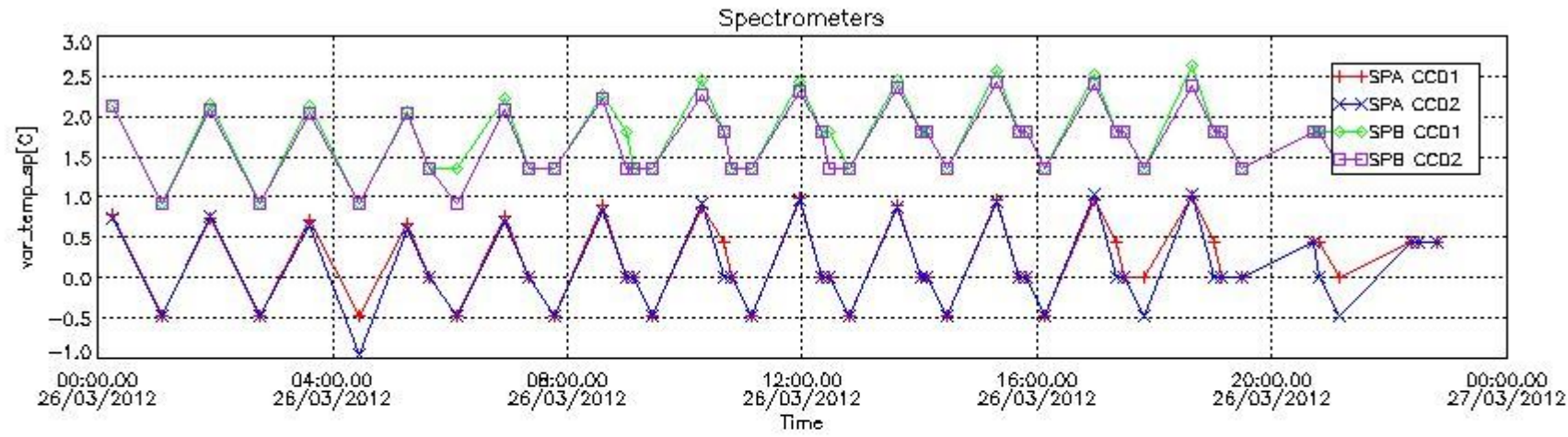
### 2.4 Summary of processed GOM\_TRA\_1P products

**!Warning: No products without errors in DARK limb conditions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20120326_001530_000000433113_00074_52674_3094.N1	26-MAR-2012 00:15:30	Straylight	42.500	77	Eps Cen	2.3030	28000.	85	52674	No
2	GOM_TRA_1PNPDE20120326_010620_000000363113_00074_52674_3095.N1	26-MAR-2012 01:06:20	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	52674	No
3	GOM_TRA_1PNPDE20120326_015544_000000433113_00075_52675_3146.N1	26-MAR-2012 01:55:44	Straylight	43.000	77	Eps Cen	2.3030	28000.	86	52675	No
4	GOM_TRA_1PNPDE20120326_024633_000000373113_00075_52675_3147.N1	26-MAR-2012 02:46:33	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	52675	No
5	GOM_TRA_1PNPDE20120326_033558_000000403113_00076_52676_3148.N1	26-MAR-2012 03:35:58	Straylight	40.000	77	Eps Cen	2.3030	28000.	80	52676	No
6	GOM_TRA_1PNPDE20120326_042648_000000383113_00076_52676_3198.N1	26-MAR-2012 04:26:48	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	52676	No
7	GOM_TRA_1PNPDE20120326_051613_000000423113_00077_52677_3199.N1	26-MAR-2012 05:16:13	Straylight	41.500	77	Eps Cen	2.3030	28000.	83	52677	No
8	GOM_TRA_1PNPDE20120326_053943_000000303113_00077_52677_3200.N1	26-MAR-2012 05:39:43	Bright	29.500	96	68Del Leo	2.5600	9300.0	59	52677	No

9	GOM_TRA_1PNPDK20120326_060702_000000373113_00077_52677_9409.N1	26-MAR-2012 06:07:02	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	52677	No
10	GOM_TRA_1PNPDK20120326_065627_000000413113_00078_52678_9410.N1	26-MAR-2012 06:56:27	Straylight	40.500	77	Eps Cen	2.3030	28000.	81	52678	No
11	GOM_TRA_1PNPDK20120326_071957_000000363113_00078_52678_9447.N1	26-MAR-2012 07:19:57	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	52678	No
12	GOM_TRA_1PNPDK20120326_074715_000000373113_00078_52678_9484.N1	26-MAR-2012 07:47:15	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	52678	No
13	GOM_TRA_1PNPDK20120326_083642_000000413113_00079_52679_0039.N1	26-MAR-2012 08:36:42	Straylight	40.500	77	Eps Cen	2.3030	28000.	81	52679	No
14	GOM_TRA_1PNPDK20120326_090010_000000433113_00079_52679_0009.N1	26-MAR-2012 09:00:10	Bright	43.000	96	68Del Leo	2.5600	9300.0	86	52679	No
15	GOM_TRA_1PNPDK20120326_090701_000000293113_00079_52679_0010.N1	26-MAR-2012 09:07:01	Bright	29.000	174	52Psi UMa	3.0040	4400.0	58	52679	No
16	GOM_TRA_1PNPDK20120326_092729_000000373113_00079_52679_0011.N1	26-MAR-2012 09:27:29	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	52679	No
17	GOM_TRA_1PNPDK20120326_101656_000000403113_00080_52680_0012.N1	26-MAR-2012 10:16:56	Straylight	40.000	77	Eps Cen	2.3030	28000.	80	52680	No
18	GOM_TRA_1PNPDK20120326_104024_000000383113_00080_52680_0021.N1	26-MAR-2012 10:40:24	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	52680	No
19	GOM_TRA_1PNPDK20120326_104715_000000353113_00080_52680_0022.N1	26-MAR-2012 10:47:15	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	52680	No
20	GOM_TRA_1PNPDK20120326_110743_000000473113_00080_52680_0023.N1	26-MAR-2012 11:07:43	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	52680	No
21	GOM_TRA_1PNPDK20120326_115710_000000403113_00081_52681_0024.N1	26-MAR-2012 11:57:10	Straylight	39.500	77	Eps Cen	2.3030	28000.	79	52681	No
22	GOM_TRA_1PNPDK20120326_122038_000000363113_00081_52681_9635.N1	26-MAR-2012 12:20:38	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	52681	No
23	GOM_TRA_1PNPDK20120326_122729_000000383113_00081_52681_9949.N1	26-MAR-2012 12:27:29	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	52681	No
24	GOM_TRA_1PNPDK20120326_124757_000000363113_00081_52681_9950.N1	26-MAR-2012 12:47:57	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	52681	No
25	GOM_TRA_1PNPDK20120326_133725_000000393113_00082_52682_9951.N1	26-MAR-2012 13:37:25	Straylight	38.500	77	Eps Cen	2.3030	28000.	77	52682	No
26	GOM_TRA_1PNPDK20120326_140052_000000543113_00082_52682_9943.N1	26-MAR-2012 14:00:52	Bright	54.000	96	68Del Leo	2.5600	9300.0	108	52682	No
27	GOM_TRA_1PNPDK20120326_140742_000000363113_00082_52682_9944.N1	26-MAR-2012 14:07:42	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	52682	No
28	GOM_TRA_1PNPDK20120326_142811_000000383113_00082_52682_9945.N1	26-MAR-2012 14:28:11	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	52682	No
29	GOM_TRA_1PNPDK20120326_151739_000000403113_00083_52683_9946.N1	26-MAR-2012 15:17:39	Straylight	39.500	77	Eps Cen	2.3030	28000.	79	52683	No
30	GOM_TRA_1PNPDK20120326_154106_000000363113_00083_52683_9744.N1	26-MAR-2012 15:41:06	Bright	36.000	96	68Del Leo	2.5600	9300.0	72	52683	No
31	GOM_TRA_1PNPDK20120326_154756_000000373113_00083_52683_9745.N1	26-MAR-2012 15:47:56	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	52683	No
32	GOM_TRA_1PNPDK20120326_160825_000000393113_00083_52683_9746.N1	26-MAR-2012 16:08:25	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	52683	No
33	GOM_TRA_1PNPDK20120326_165754_000000403113_00084_52684_9747.N1	26-MAR-2012 16:57:54	Straylight	40.000	77	Eps Cen	2.3030	28000.	80	52684	No
34	GOM_TRA_1PNPDK20120326_172120_000000383113_00084_52684_9917.N1	26-MAR-2012 17:21:20	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	52684	No
35	GOM_TRA_1PNPDK20120326_172810_000000363113_00084_52684_9918.N1	26-MAR-2012 17:28:10	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	52684	No
36	GOM_TRA_1PNPDK20120326_174839_000000383113_00084_52684_9919.N1	26-MAR-2012 17:48:39	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	52684	No
37	GOM_TRA_1PNPDK20120326_183808_000000403113_00085_52685_9920.N1	26-MAR-2012 18:38:08	Straylight	40.000	77	Eps Cen	2.3030	28000.	80	52685	No
38	GOM_TRA_1PNPDK20120326_190134_000000383113_00085_52685_9880.N1	26-MAR-2012 19:01:34	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	52685	No
39	GOM_TRA_1PNPDK20120326_190824_000000373113_00085_52685_9881.N1	26-MAR-2012 19:08:24	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	52685	No
40	GOM_TRA_1PNPDK20120326_192853_000000363113_00085_52685_9882.N1	26-MAR-2012 19:28:53	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	52685	No
41	GOM_TRA_1PNPDE20120326_204148_000000383113_00086_52686_3382.N1	26-MAR-2012 20:41:48	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	52686	No
42	GOM_TRA_1PNPDE20120326_204838_000000363113_00086_52686_3383.N1	26-MAR-2012 20:48:38	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	52686	No
43	GOM_TRA_1PNPDE20120326_210907_000000373113_00086_52686_3384.N1	26-MAR-2012 21:09:07	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	52686	No
44	GOM_TRA_1PNPDE20120326_222201_000000373113_00087_52687_3404.N1	26-MAR-2012 22:22:01	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	52687	No
45	GOM_TRA_1PNPDE20120326_222852_000000363113_00087_52687_3405.N1	26-MAR-2012 22:28:52	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	52687	No
46	GOM_TRA_1PNPDE20120326_224920_000000373113_00087_52687_3406.N1	26-MAR-2012 22:49:20	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	52687	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_1PNPDE20120326_001530_000000433113_00074_52674_3094.N1	DC map used
GOM_TRA_1PNPDE20120326_010620_000000363113_00074_52674_3095.N1	DC map used
GOM_TRA_1PNPDE20120326_015544_000000433113_00075_52675_3146.N1	DC map used
GOM_TRA_1PNPDE20120326_024633_000000373113_00075_52675_3147.N1	DC map used
GOM_TRA_1PNPDE20120326_033558_000000403113_00076_52676_3148.N1	DC map used
GOM_TRA_1PNPDE20120326_042648_000000383113_00076_52676_3198.N1	DC map used
GOM_TRA_1PNPDE20120326_051613_000000423113_00077_52677_3199.N1	DC map used
GOM_TRA_1PNPDE20120326_053943_000000303113_00077_52677_3200.N1	DC map used
GOM_TRA_1PNPDK20120326_060702_000000373113_00077_52677_9409.N1	DC map used
GOM_TRA_1PNPDK20120326_065627_000000413113_00078_52678_9410.N1	DC map used
GOM_TRA_1PNPDK20120326_071957_000000363113_00078_52678_9447.N1	DC map used
GOM_TRA_1PNPDK20120326_074715_000000373113_00078_52678_9484.N1	DC map used
GOM_TRA_1PNPDK20120326_083642_000000413113_00079_52679_0039.N1	DC map used
GOM_TRA_1PNPDK20120326_090010_000000433113_00079_52679_0009.N1	DC map used

GOM_TRA_1PNPDK20120326_090701_000000293113_00079_52679_0010.N1	DC map used
GOM_TRA_1PNPDK20120326_092729_000000373113_00079_52679_0011.N1	DC map used
GOM_TRA_1PNPDK20120326_101656_000000403113_00080_52680_0012.N1	DC map used
GOM_TRA_1PNPDK20120326_104024_000000383113_00080_52680_0021.N1	DC map used
GOM_TRA_1PNPDK20120326_104715_000000353113_00080_52680_0022.N1	DC map used
GOM_TRA_1PNPDK20120326_110743_000000473113_00080_52680_0023.N1	DC map used
GOM_TRA_1PNPDK20120326_115710_000000403113_00081_52681_0024.N1	DC map used
GOM_TRA_1PNPDK20120326_122038_000000363113_00081_52681_9635.N1	DC map used
GOM_TRA_1PNPDK20120326_122729_000000383113_00081_52681_9949.N1	DC map used
GOM_TRA_1PNPDK20120326_124757_000000363113_00081_52681_9950.N1	DC map used
GOM_TRA_1PNPDK20120326_133725_000000393113_00082_52682_9951.N1	DC map used
GOM_TRA_1PNPDK20120326_140052_000000543113_00082_52682_9943.N1	DC map used
GOM_TRA_1PNPDK20120326_140742_000000363113_00082_52682_9944.N1	DC map used
GOM_TRA_1PNPDK20120326_142811_000000383113_00082_52682_9945.N1	DC map used
GOM_TRA_1PNPDK20120326_151739_000000403113_00083_52683_9946.N1	DC map used
GOM_TRA_1PNPDK20120326_154106_000000363113_00083_52683_9744.N1	DC map used
GOM_TRA_1PNPDK20120326_154756_000000373113_00083_52683_9745.N1	DC map used
GOM_TRA_1PNPDK20120326_160825_000000393113_00083_52683_9746.N1	DC map used
GOM_TRA_1PNPDK20120326_165754_000000403113_00084_52684_9747.N1	DC map used
GOM_TRA_1PNPDK20120326_172120_000000383113_00084_52684_9917.N1	DC map used
GOM_TRA_1PNPDK20120326_172810_000000363113_00084_52684_9918.N1	DC map used
GOM_TRA_1PNPDK20120326_174839_000000383113_00084_52684_9919.N1	DC map used
GOM_TRA_1PNPDK20120326_183808_000000403113_00085_52685_9920.N1	DC map used
GOM_TRA_1PNPDK20120326_190134_000000383113_00085_52685_9880.N1	DC map used
GOM_TRA_1PNPDK20120326_190824_000000373113_00085_52685_9881.N1	DC map used
GOM_TRA_1PNPDK20120326_192853_000000363113_00085_52685_9882.N1	DC map used
GOM_TRA_1PNPDE20120326_204148_000000383113_00086_52686_3382.N1	DC map used
GOM_TRA_1PNPDE20120326_204838_000000363113_00086_52686_3383.N1	DC map used
GOM_TRA_1PNPDE20120326_210907_000000373113_00086_52686_3384.N1	DC map used
GOM_TRA_1PNPDE20120326_222201_000000373113_00087_52687_3404.N1	DC map used
GOM_TRA_1PNPDE20120326_222852_000000363113_00087_52687_3405.N1	DC map used
GOM_TRA_1PNPDE20120326_224920_000000373113_00087_52687_3406.N1	DC map used

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

No products without errors in DARK limb conditions found. No plot performed.

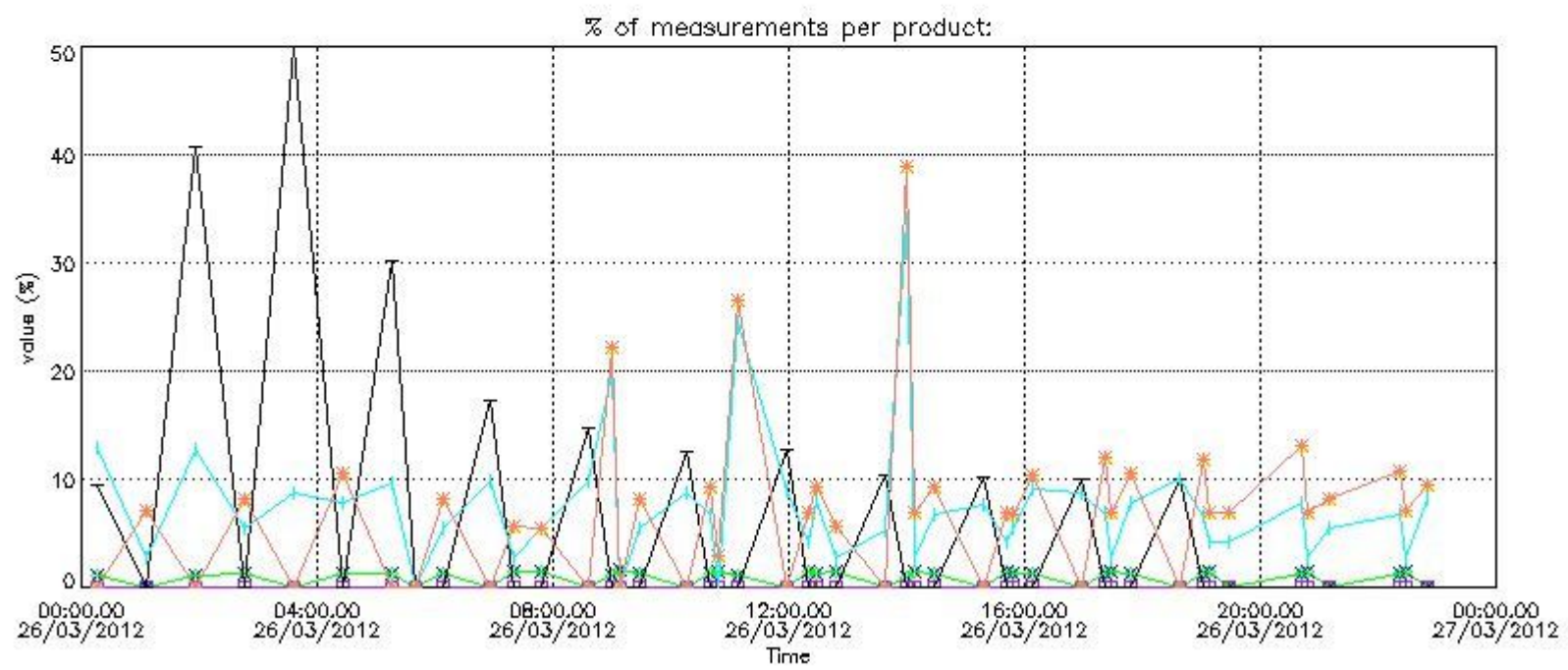
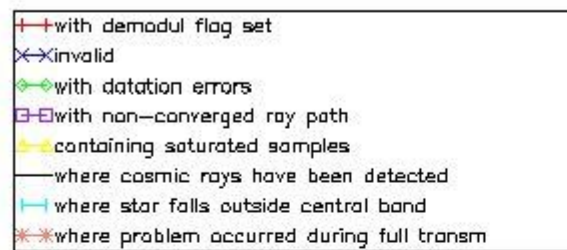
**5. Demodulation flag and quality information monitoring**

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.

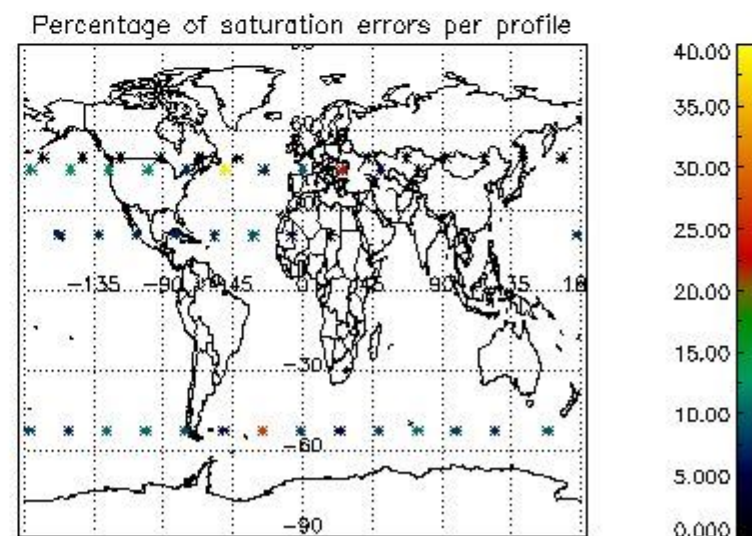
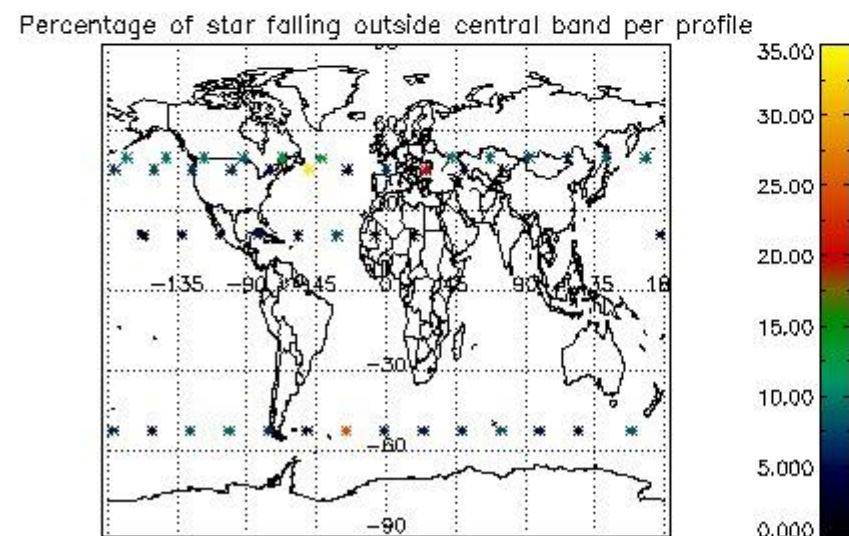
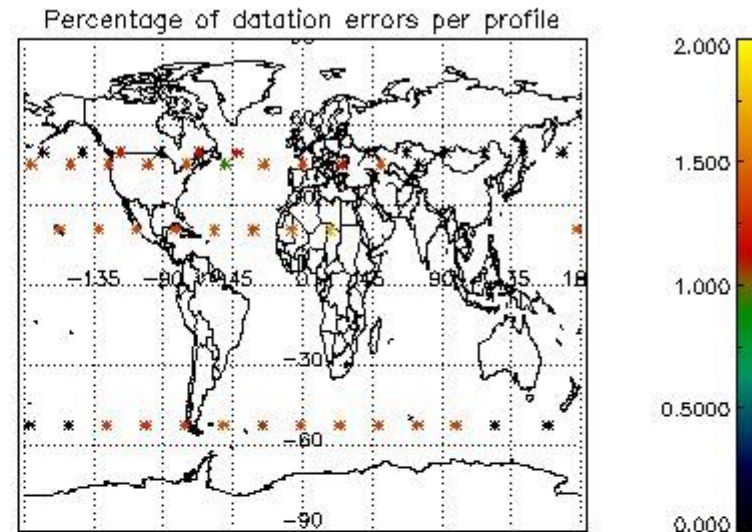
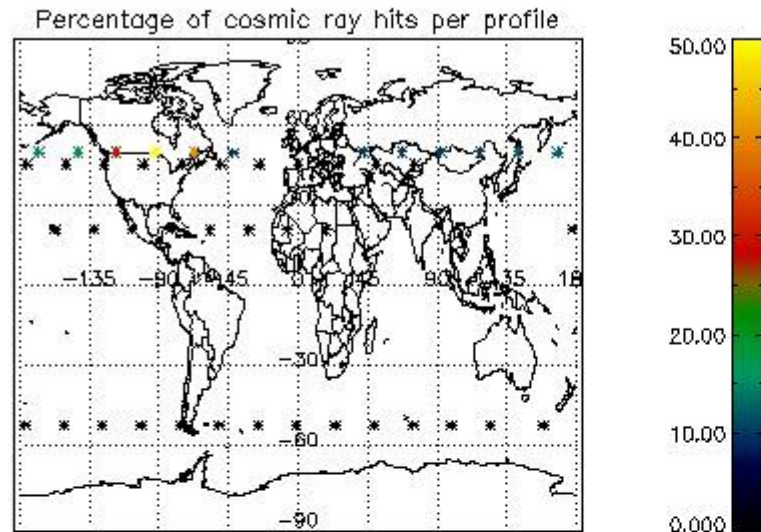
*5.1 Percentage of products during reporting period with:*

At least one measurement with demodulation flag set:	21.7391 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	73.9130 %

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



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



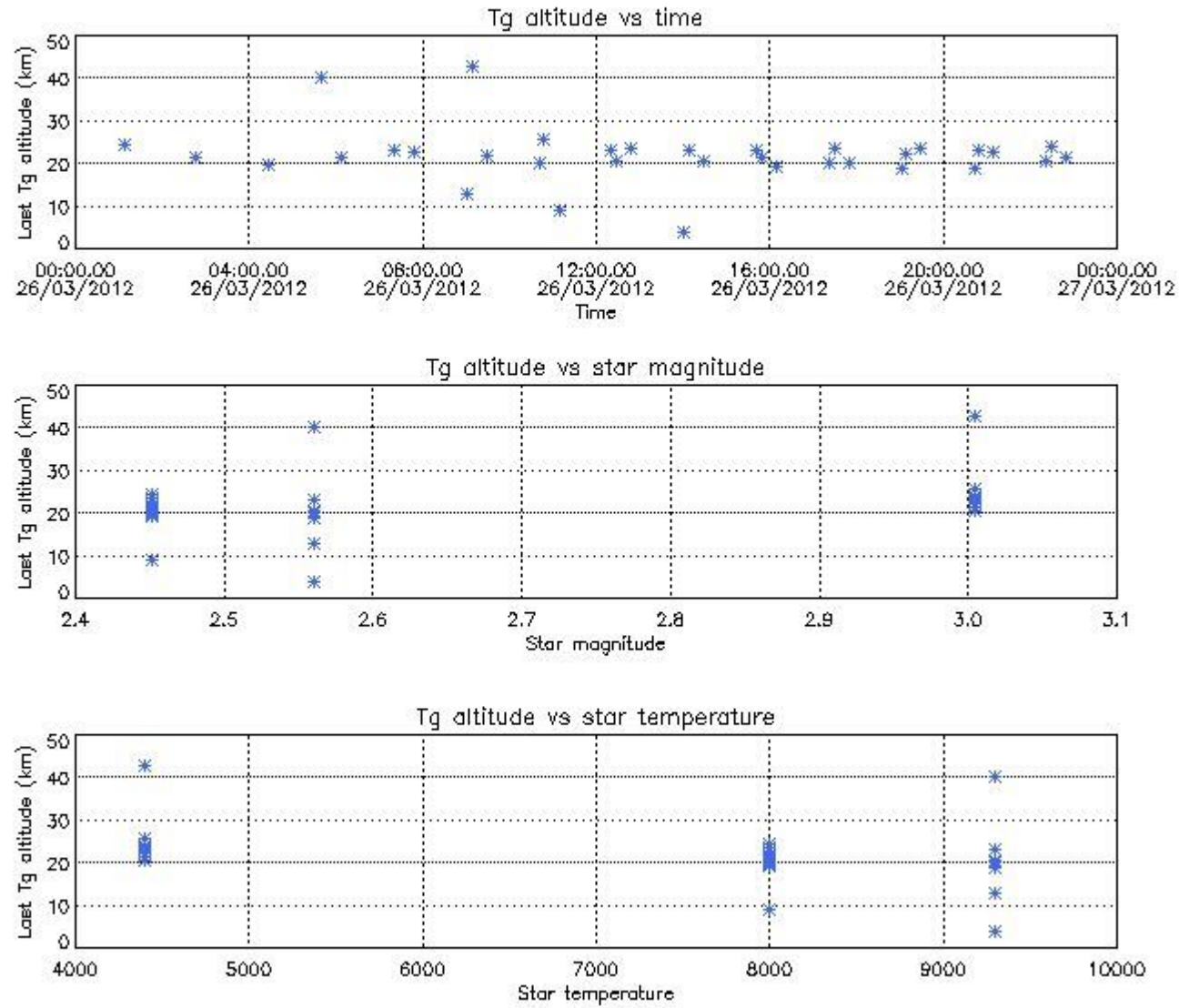
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	21.840	NaN
St. deviation:	NaN	6.5787	NaN
Maximum:	NaN	42.777	NaN
Minimum:	NaN	4.0472	NaN
Number of data:	NaN	34.000	NaN

### 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)

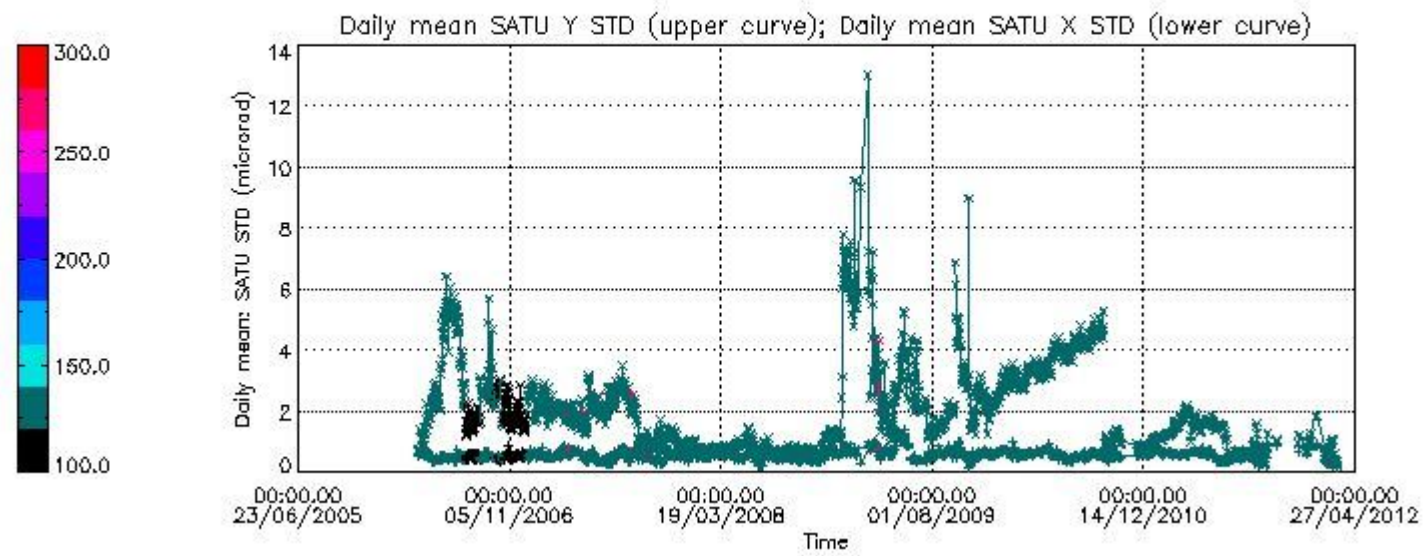
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	NaN	NaN	0.078872	-0.26192
St. deviation:	NaN	NaN	0.93879	1.0658
Maximum:	NaN	NaN	4.2000	22.600
Minimum:	NaN	NaN	-7.4000	-10.900
Number of data:	NaN	NaN	28900.	28900.
90Percentile:	NaN	NaN	1.3000	1.1000

### 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

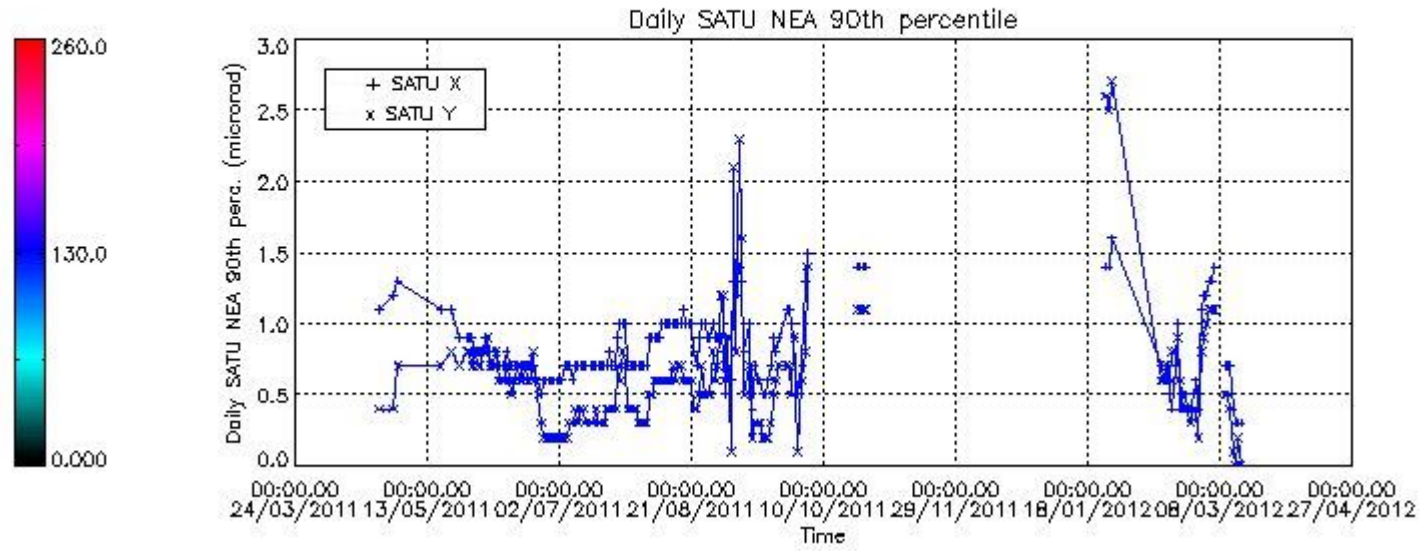
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

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



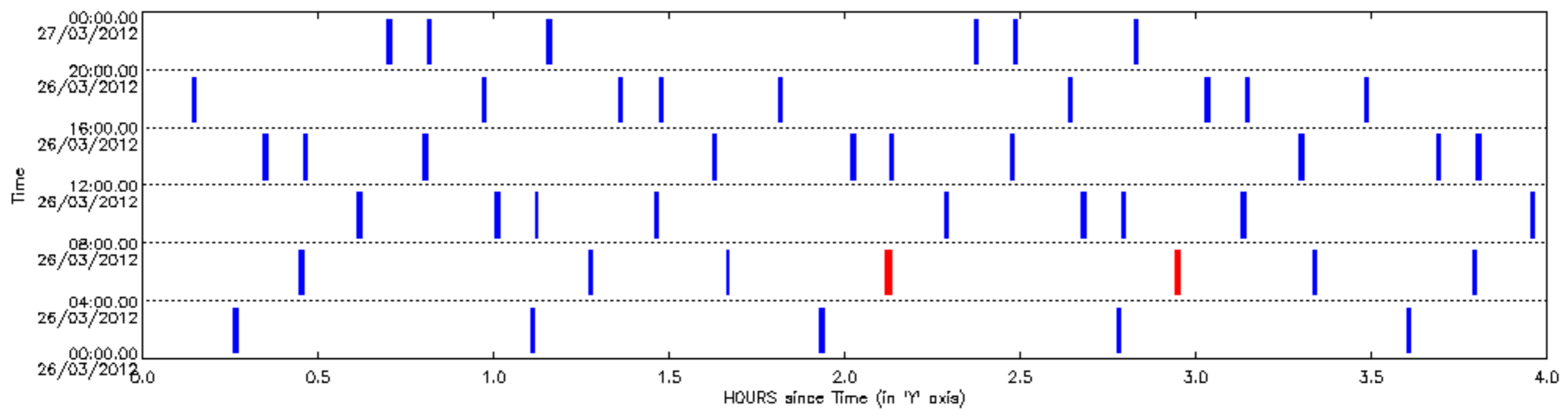
Lower curve: 90th percentile of SATU Y axis  
Upper curve: 90th percentile of SATU X axis

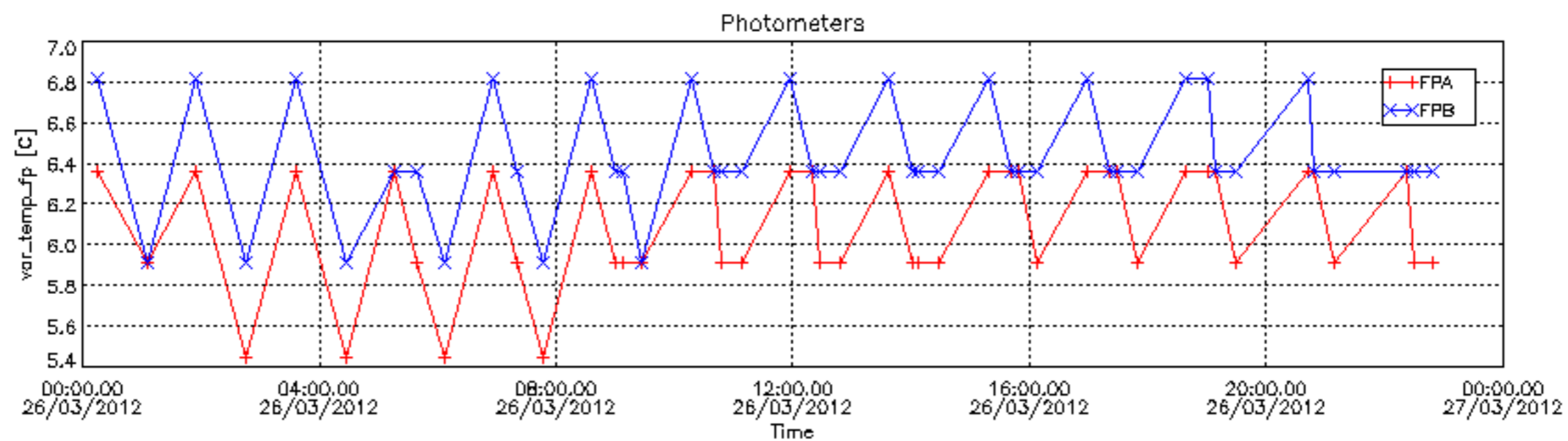
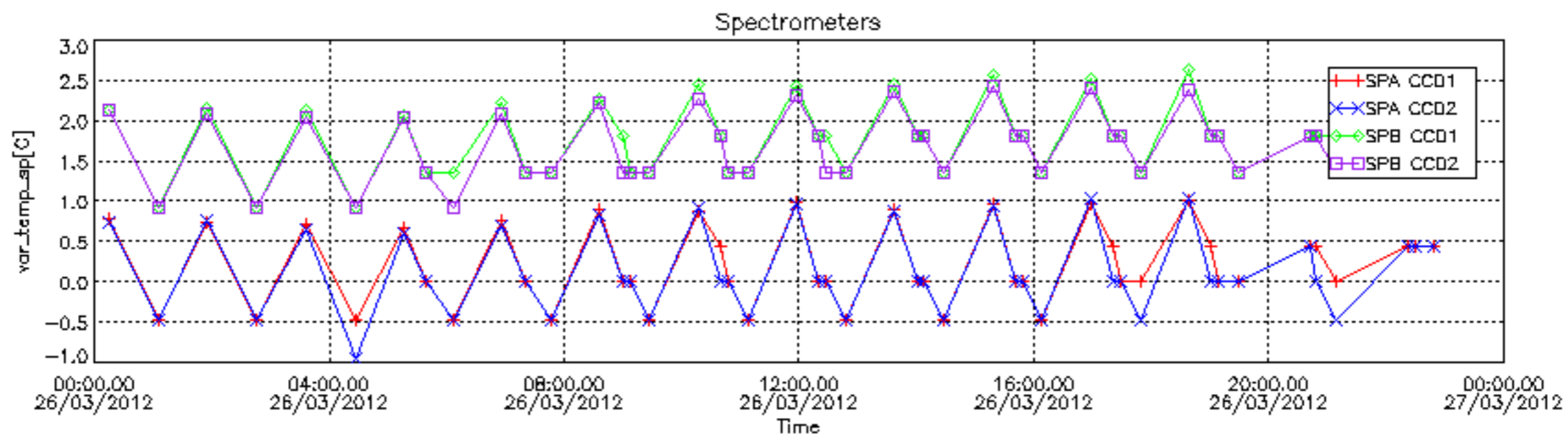


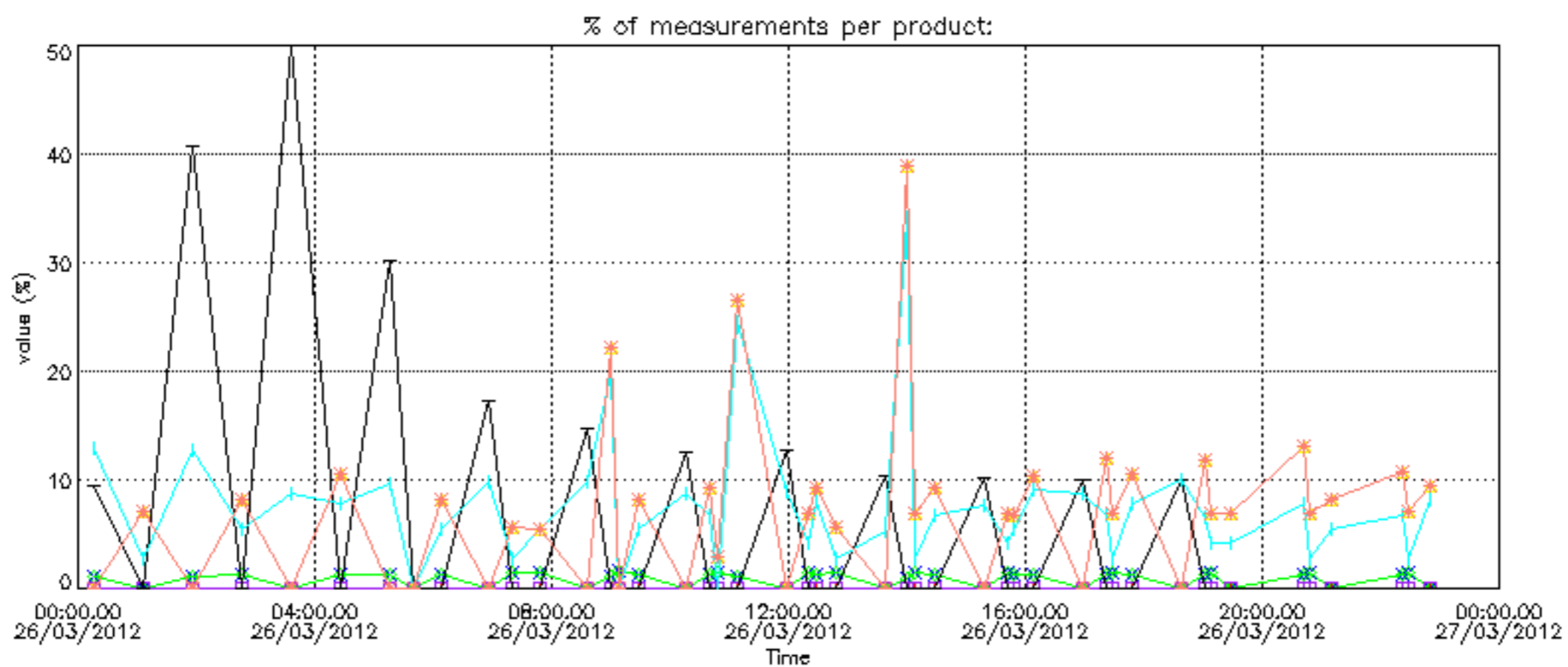
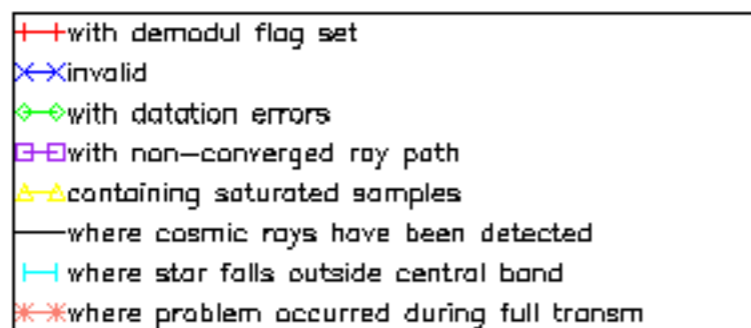
## 8. Auxiliary Data Files used for the production reported in section 2.4

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.

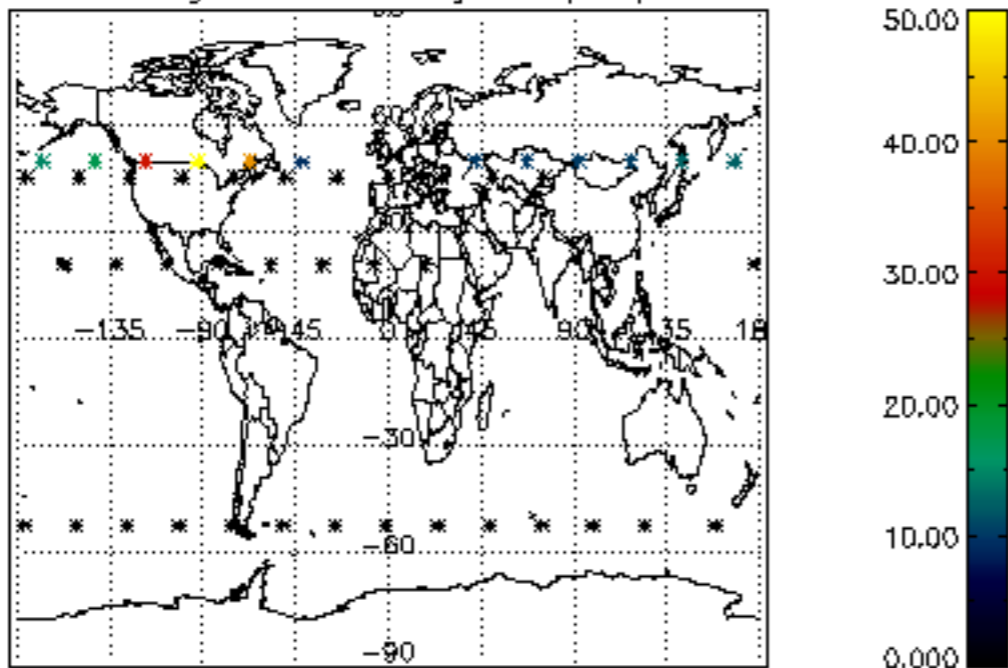
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	26-MAR-2012 00:15:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120316_091957_20120315_000000_20500101_000000	1	26-MAR-2012 00:15:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	26-MAR-2012 00:15:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-MAR-2012 00:15:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-MAR-2012 00:15:30
ECMWF_FILE	AUX_ECF_AXNECM20120325_060233_20120325_210000_20120326_090000	1	26-MAR-2012 00:15:30
ECMWF_FILE	AUX_ECF_AXNECM20120325_182228_20120326_030000_20120326_150000	6	26-MAR-2012 04:26:48
ECMWF_FILE	AUX_ECA_AXNECM20120326_062115_20120325_210000_20120326_090000	9	26-MAR-2012 06:07:02
ECMWF_FILE	AUX_ECA_AXNECM20120326_175218_20120326_030000_20120326_150000	13	26-MAR-2012 08:36:42
ECMWF_FILE	AUX_ECF_AXNECM20120326_062115_20120326_090000_20120326_210000	22	26-MAR-2012 12:20:38
ECMWF_FILE	AUX_ECA_AXNECM20120326_175219_20120326_090000_20120326_210000	23	26-MAR-2012 12:27:29
ECMWF_FILE	AUX_ECF_AXNECM20120326_062116_20120326_150000_20120327_030000	30	26-MAR-2012 15:41:06
ECMWF_FILE	AUX_ECA_AXNECM20120326_175219_20120326_090000_20120326_210000	34	26-MAR-2012 17:21:20
ECMWF_FILE	AUX_ECF_AXNECM20120326_062116_20120326_150000_20120327_030000	41	26-MAR-2012 20:41:48
ECMWF_FILE	AUX_ECF_AXNECM20120326_062116_20120326_210000_20120327_090000	44	26-MAR-2012 22:22:01
OPTIONAL_ECMWF_FILE	MISSING	1	26-MAR-2012 00:15:30
OPTIONAL_ECMWF_FILE	AUX_ECA_AXNECM20120326_175219_20120326_090000_20120326_210000	14	26-MAR-2012 09:00:10
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120324_232335_20120324_193738_20120403_201104	1	26-MAR-2012 00:15:30
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120326_102113_20120325_190053_20120404_211433	13	26-MAR-2012 08:36:42



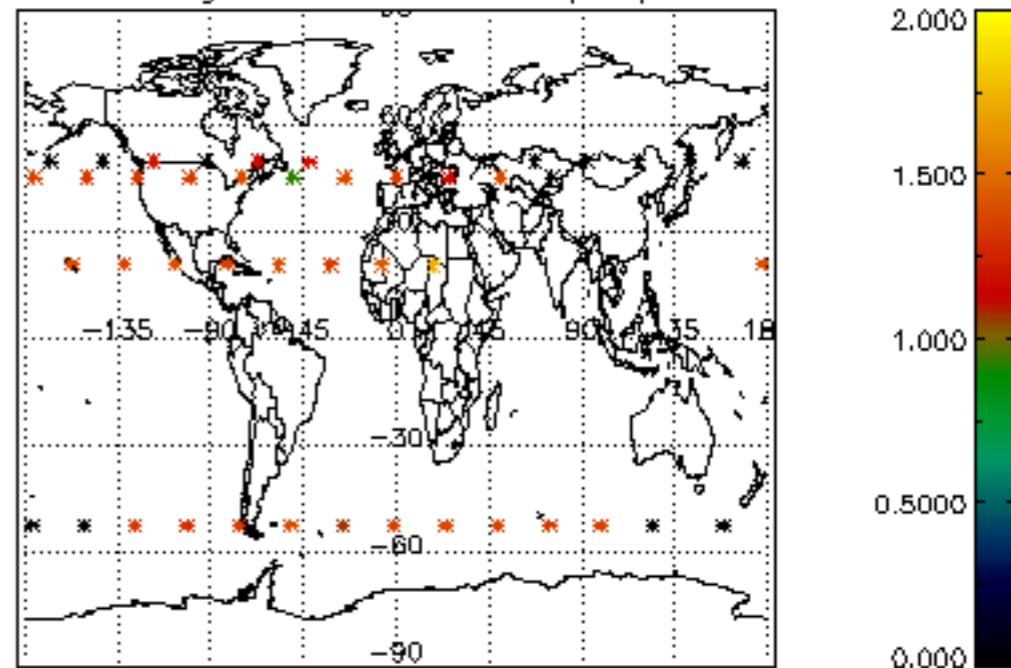




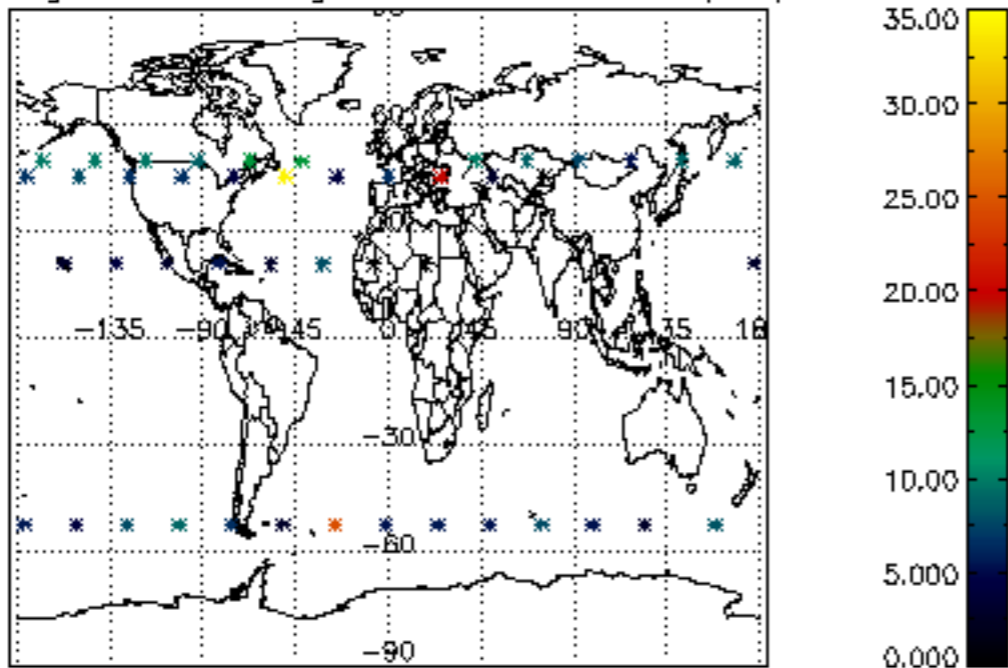
Percentage of cosmic ray hits per profile



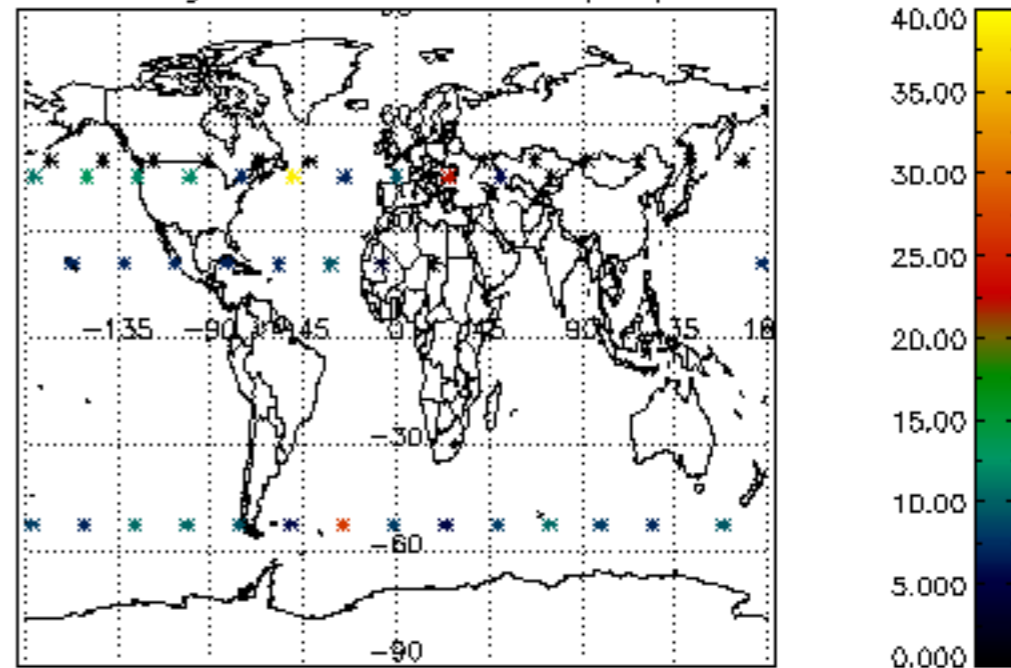
Percentage of datation errors per profile



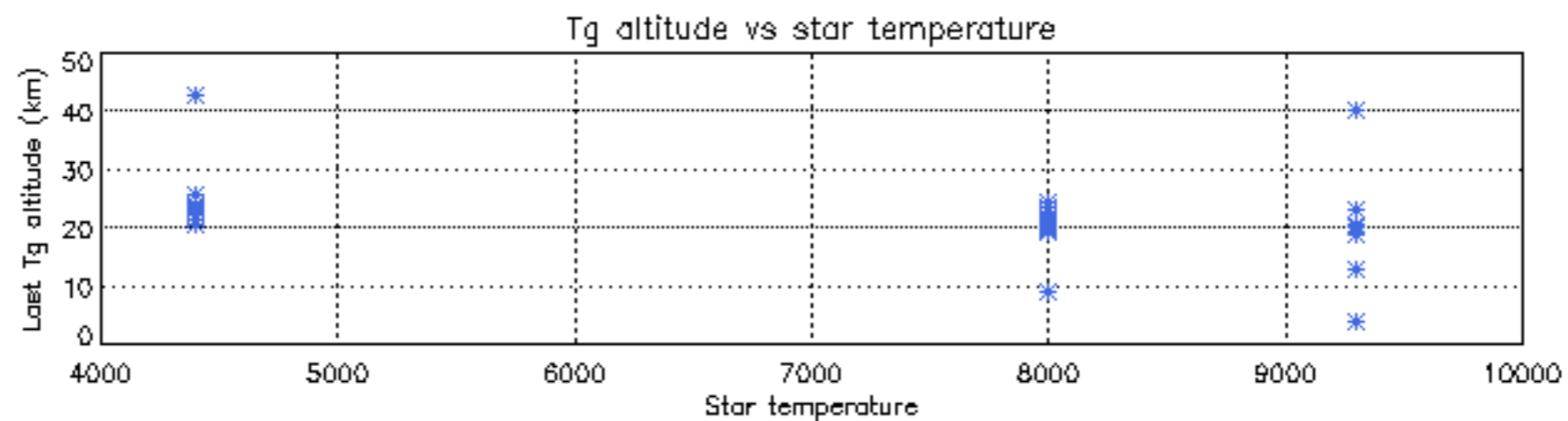
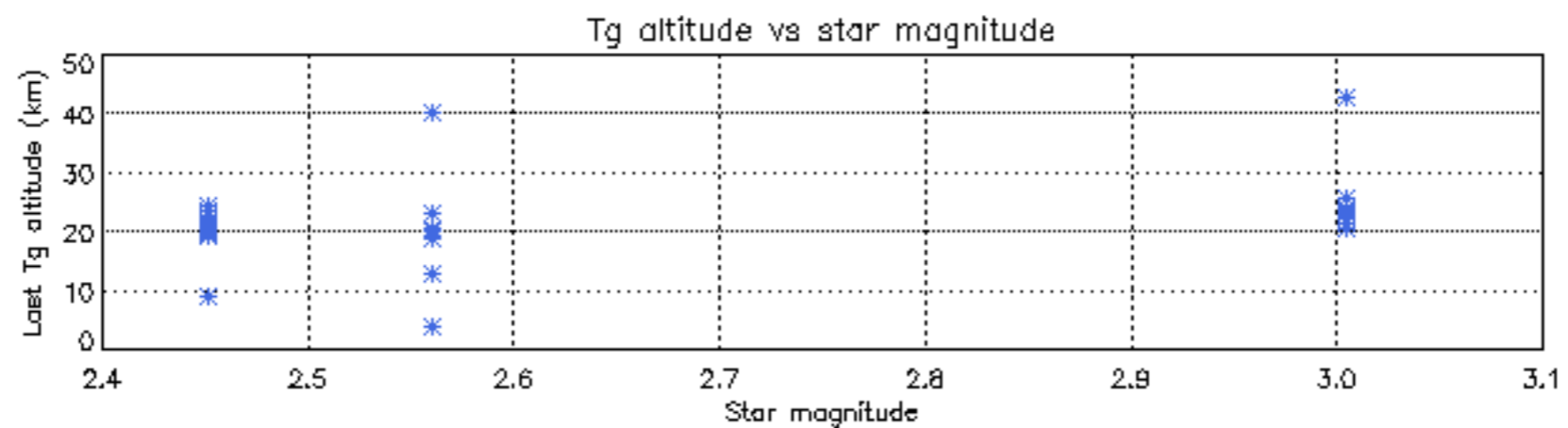
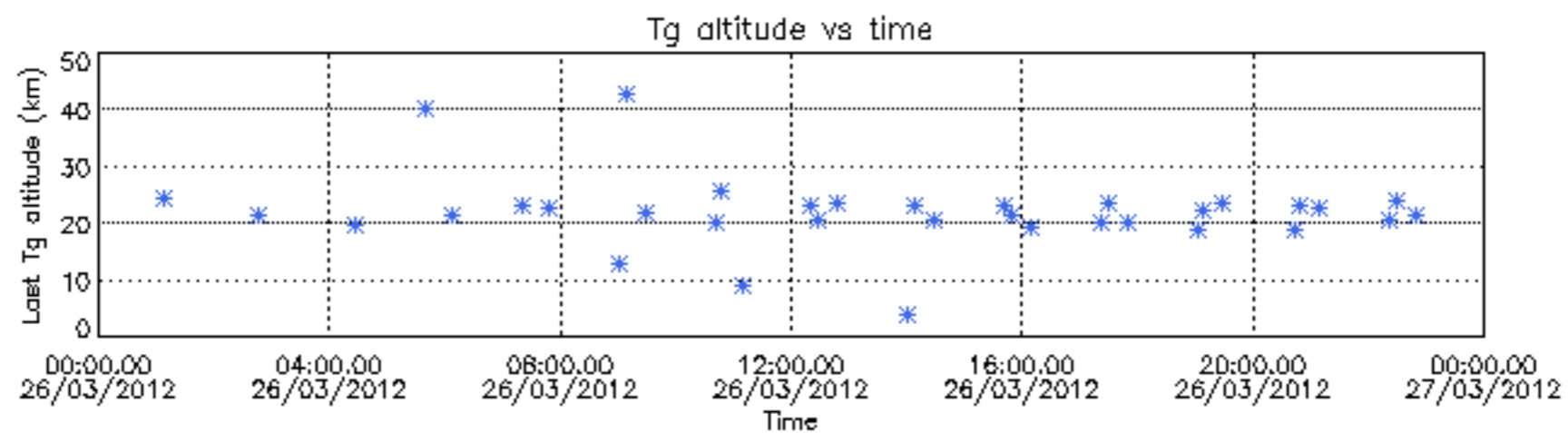
Percentage of star falling outside central band per profile

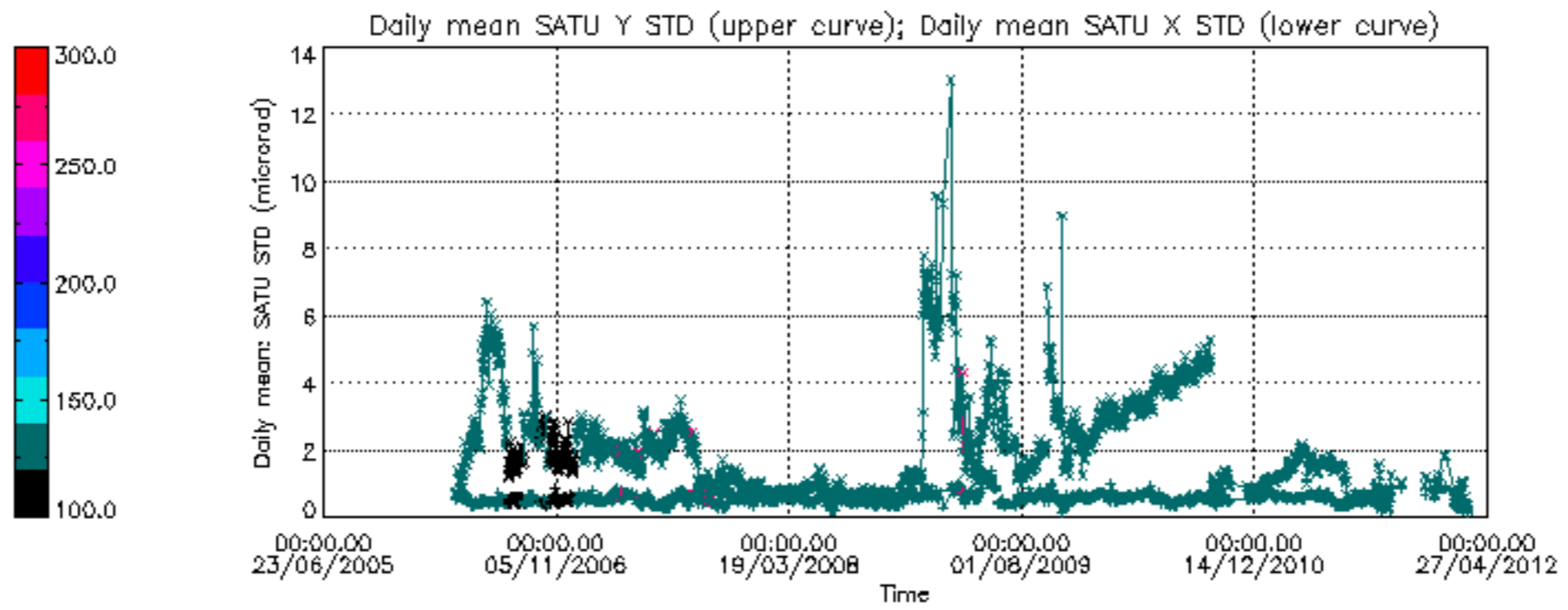


Percentage of saturation errors per profile

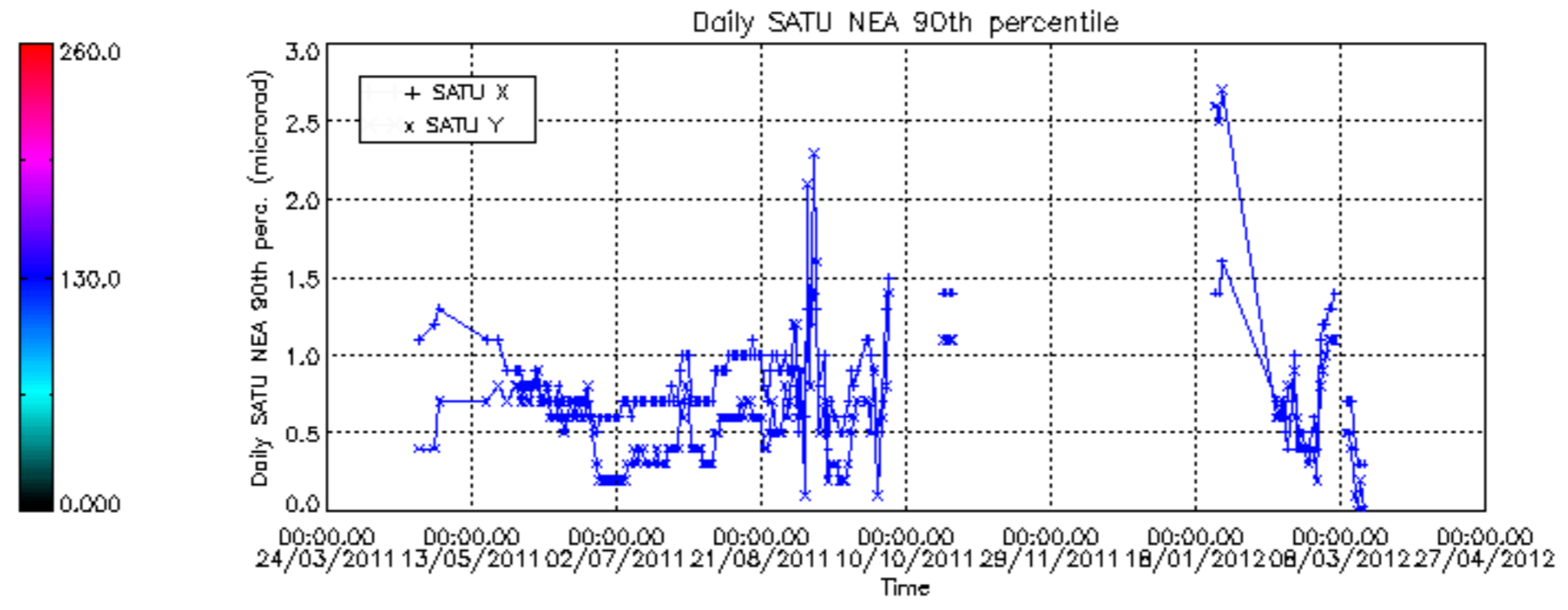


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120301\_002653\_00000463112\_00146\_52315\_6689.N1  
1; 521.9; 01-MAR-2012 00:26:53; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52315

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120301\_220059\_000042423112\_00158\_52327\_6691.N1  
1; -13.1; 01-MAR-2012 22:00:59; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;52327  
2; 529.6; 01-MAR-2012 22:10:02; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52328  
3; 4193.8; 01-MAR-2012 23:11:06; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;52328

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120301\_234114\_000042413112\_00159\_52328\_6692.N1  
1; -12.4; 01-MAR-2012 23:41:14; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52328  
2; 530.1; 01-MAR-2012 23:50:16; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52329  
3; 4193.8; 02-MAR-2012 00:51:20; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;52329

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_062846\_000023863112\_00149\_52318\_5720.N1  
1;-1820.5; 01-MAR-2012 06:28:46; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;52318  
2; -18.6; 01-MAR-2012 06:58:48; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52318  
3; 524.8; 01-MAR-2012 07:07:52; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52319

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_080901\_000023903112\_00150\_52319\_5721.N1  
1;-1820.2; 01-MAR-2012 08:09:01; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;52319  
2; -17.3; 01-MAR-2012 08:39:04; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52319  
3; 526.1; 01-MAR-2012 08:48:07; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52320

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_112928\_000023903112\_00152\_52321\_5723.N1  
1;-1820.5; 01-MAR-2012 11:29:28; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;52321  
2; -17.0; 01-MAR-2012 11:59:32; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52321  
3; 526.3; 01-MAR-2012 12:08:35; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52322

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_130942\_000023883112\_00153\_52322\_5724.N1  
1;-1820.4; 01-MAR-2012 13:09:42; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;52322  
2; -16.2; 01-MAR-2012 13:39:46; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;52322  
3; 526.6; 01-MAR-2012 13:48:49; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52323

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_144956\_000023883112\_00154\_52323\_5725.N1  
1;-1820.1; 01-MAR-2012 14:49:56; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;52323  
2; -15.8; 01-MAR-2012 15:20:01; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52323  
3; 527.2; 01-MAR-2012 15:29:04; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52324

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_163010\_000023913112\_00155\_52324\_5726.N1  
1;-1820.3; 01-MAR-2012 16:30:10; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;52324  
2; -15.0; 01-MAR-2012 17:00:16; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52324  
3; 527.8; 01-MAR-2012 17:09:18; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52325

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_181024\_000024013112\_00156\_52325\_5727.N1  
1;-1820.3; 01-MAR-2012 18:10:24; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;52325  
2; -14.3; 01-MAR-2012 18:40:30; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;52325  
3; 528.3; 01-MAR-2012 18:49:33; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;52326

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120301\_195038\_000023963112\_00157\_52326\_5728.N1  
1;-1820.1; 01-MAR-2012 19:50:38; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;52326  
2; -13.7; 01-MAR-2012 20:20:45; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52326  
3; 529.0; 01-MAR-2012 20:29:48; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;52327

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120301\_213052\_000000353112\_00158\_52327\_6690.N1  
1;-1820.2; 01-MAR-2012 21:30:52; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;52327

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120302\_012128\_000065983112\_00160\_52329\_6693.N1  
1; -11.7; 02-MAR-2012 01:21:28; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52329  
2; 530.7; 02-MAR-2012 01:30:31; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52330  
3; 5493.0; 02-MAR-2012 02:53:13; Dark ; 44.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 89; 0;52330  
4; 6003.0; 02-MAR-2012 03:01:43; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52330  
5; 6545.3; 02-MAR-2012 03:10:45; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52331

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120302\_043328\_000011033112\_00162\_52331\_6694.N1  
1; -520.2; 02-MAR-2012 04:33:28; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;52331  
2; -10.3; 02-MAR-2012 04:41:58; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52331  
3; 532.0; 02-MAR-2012 04:51:00; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52332

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120302\_061342\_000010933112\_00163\_52332\_6695.N1  
1; -519.7; 02-MAR-2012 06:13:42; Dark ; 43.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 87; 0;52332  
2; -9.7; 02-MAR-2012 06:22:12; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;52332  
3; 532.6; 02-MAR-2012 06:31:15; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52333

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120302\_211553\_000005393112\_00172\_52341\_6696.N1  
1; -514.5; 02-MAR-2012 21:15:53; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;52341  
2; -3.6; 02-MAR-2012 21:24:24; Dark ; 28.5; 147; Alp Ara ; 2.88; 26000;occ; 57; 0;52341

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120302\_225608\_000005363112\_00173\_52342\_6697.N1  
1; -514.3; 02-MAR-2012 22:56:08; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;52342  
2; -3.3; 02-MAR-2012 23:04:39; Dark ; 25.5; 147; Alp Ara ; 2.88; 26000;occ; 51; 0;52342

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_075357\_000010933112\_00164\_52333\_5729.N1  
1; -519.2; 02-MAR-2012 07:53:57; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;52333  
2; -9.0; 02-MAR-2012 08:02:27; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;52333  
3; 533.1; 02-MAR-2012 08:11:29; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52334

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_093412\_000010933112\_00165\_52334\_5730.N1  
1; -518.5; 02-MAR-2012 09:34:12; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;52334  
2; -8.4; 02-MAR-2012 09:42:42; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52334  
3; 533.6; 02-MAR-2012 09:51:44; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52335  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_111426\_000011043112\_00166\_52335\_5731.N1  
1; -517.9; 02-MAR-2012 11:14:26; Dark ; 46.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 92; 0;52335  
2; -7.6; 02-MAR-2012 11:22:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52335  
3; 534.1; 02-MAR-2012 11:31:58; Dark ; 52.0; 10; Bet Cen ; 0.61; 28000;occ; 104; 0;52336  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_125440\_000010943112\_00167\_52336\_5732.N1  
1; -517.4; 02-MAR-2012 12:54:40; Dark ; 46.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 92; 0;52336  
2; -7.0; 02-MAR-2012 13:03:11; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52336  
3; 534.7; 02-MAR-2012 13:12:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52337  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_143455\_000010933112\_00168\_52337\_5733.N1  
1; -516.7; 02-MAR-2012 14:34:55; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;52337  
2; -6.3; 02-MAR-2012 14:43:25; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52337  
3; 536.9; 02-MAR-2012 14:52:29; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;52338  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_161509\_000005473112\_00169\_52338\_5734.N1  
1; -516.2; 02-MAR-2012 16:15:09; Dark ; 43.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 87; 0;52338  
2; -5.6; 02-MAR-2012 16:23:40; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;52338  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_175524\_000005453112\_00170\_52339\_5735.N1  
1; -515.7; 02-MAR-2012 17:55:24; Dark ; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;52339  
2; -5.0; 02-MAR-2012 18:03:55; Dark ; 34.5; 147; Alp Ara ; 2.88; 26000;occ; 69; 0;52339  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120302\_193539\_000005423112\_00171\_52340\_5736.N1  
1; -515.1; 02-MAR-2012 19:35:39; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;52340  
2; -4.3; 02-MAR-2012 19:44:09; Dark ; 31.5; 147; Alp Ara ; 2.88; 26000;occ; 63; 0;52340  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120303\_021637\_000000303112\_00175\_52344\_6698.N1  
1; -513.1; 03-MAR-2012 02:16:37; Dark ; 30.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 61; 0;52344  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120303\_044346\_000000263112\_00177\_52346\_6699.N1  
1; 2302.6; 03-MAR-2012 04:43:46; Bright; 26.5; 166; 17Eps Leo ; 2.98; 6000;occ; 53; 0;52346  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120303\_062400\_000000323112\_00178\_52347\_6700.N1  
1; 2302.4; 03-MAR-2012 06:24:00; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;52347  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120303\_212605\_000000383112\_00187\_52356\_6701.N1  
1; 2302.1; 03-MAR-2012 21:26:05; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;52356  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120303\_221739\_000029583112\_00187\_52356\_6702.N1  
1; -618.3; 03-MAR-2012 22:17:39; Dark ; 42.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 85; 0;52356  
2; 2301.9; 03-MAR-2012 23:06:19; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;52357  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120303\_080414\_000000373112\_00179\_52348\_5737.N1  
1; 2302.4; 03-MAR-2012 08:04:14; Bright; 37.5; 166; 17Eps Leo ; 2.98; 6000;occ; 75; 0;52348  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120303\_112442\_000031323112\_00181\_52350\_5739.N1  
1; 2302.1; 03-MAR-2012 11:24:42; Bright; 37.5; 166; 17Eps Leo ; 2.98; 6000;occ; 75; 0;52350  
2; 5391.9; 03-MAR-2012 12:16:11; Dark ; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;52350  
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2; 2098.5; 08-MAR-2012 03:16:52; Bright; 38.0; 22; 32Alp Leo ; 1.36; 15200;occ; 76; 0;52417  
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2; 4280.5; 11-MAR-2012 15:24:51; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;52467  
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1; 294.7; 14-MAR-2012 22:29:33; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52515  
2; 558.2; 14-MAR-2012 22:33:57; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;52515  
3; 4189.9; 14-MAR-2012 23:34:29; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;52515  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_065209\_000024233112\_00336\_52505\_5803.N1  
1;-1824.4; 14-MAR-2012 06:52:09; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52505  
2; 289.1; 14-MAR-2012 07:27:22; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52506  
3; 553.4; 14-MAR-2012 07:31:47; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;52506  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_083223\_000024343112\_00337\_52506\_5804.N1  
1;-1824.4; 14-MAR-2012 08:32:23; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;52506  
2; 289.7; 14-MAR-2012 09:07:37; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52507  
3; 554.0; 14-MAR-2012 09:12:01; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52507  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_101237\_000024273112\_00338\_52507\_5805.N1  
1;-1824.3; 14-MAR-2012 10:12:37; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;52507  
2; 290.4; 14-MAR-2012 10:47:51; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52508  
3; 554.5; 14-MAR-2012 10:52:16; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;52508  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_115251\_000024203112\_00339\_52508\_5806.N1  
1;-1824.3; 14-MAR-2012 11:52:51; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;52508  
2; 291.0; 14-MAR-2012 12:28:06; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52509  
3; 555.1; 14-MAR-2012 12:32:30; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52509  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_133305\_000024223112\_00340\_52509\_5807.N1  
1;-1824.2; 14-MAR-2012 13:33:05; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;52509  
2; 291.6; 14-MAR-2012 14:08:20; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52510  
3; 555.7; 14-MAR-2012 14:12:45; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;52510  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_151319\_000024233112\_00341\_52510\_5808.N1  
1;-1824.1; 14-MAR-2012 15:13:19; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52510  
2; 292.2; 14-MAR-2012 15:48:35; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52511  
3; 556.2; 14-MAR-2012 15:52:59; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;52511  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_165333\_000024253112\_00342\_52511\_5809.N1  
1;-1824.3; 14-MAR-2012 16:53:33; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52511  
2; 292.8; 14-MAR-2012 17:28:50; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52512  
3; 556.7; 14-MAR-2012 17:33:14; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;52512  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_183346\_000024373112\_00343\_52512\_5810.N1  
1;-1824.3; 14-MAR-2012 18:33:46; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52512  
2; 293.5; 14-MAR-2012 19:09:04; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52513  
3; 557.2; 14-MAR-2012 19:13:28; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;52513  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_201401\_000024263112\_00344\_52513\_5811.N1  
1;-1824.2; 14-MAR-2012 20:14:01; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;52513  
2; 294.1; 14-MAR-2012 20:49:19; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52514  
3; 557.7; 14-MAR-2012 20:53:42; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;52514  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_000948\_000039323112\_00347\_52516\_6756.N1  
1; 295.3; 15-MAR-2012 00:09:48; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52516  
2; 558.7; 15-MAR-2012 00:14:11; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;52516  
3; 4190.0; 15-MAR-2012 01:14:42; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52516  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_015002\_000003093112\_00348\_52517\_6757.N1  
1; 296.0; 15-MAR-2012 01:50:02; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;52517  
2; 559.3; 15-MAR-2012 01:54:26; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;52517  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_025456\_000024323112\_00348\_52517\_6758.N1  
1;-1824.0; 15-MAR-2012 02:54:56; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;52517  
2; 296.6; 15-MAR-2012 03:30:17; Dark ; 56.5; 0; ; 0.00; 0;occ; 113; 0;52518  
3; 560.0; 15-MAR-2012 03:34:40; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;52518  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_043510\_000024403112\_00349\_52518\_6759.N1  
1;-1823.9; 15-MAR-2012 04:35:10; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;52518  
2; 297.2; 15-MAR-2012 05:10:31; Dark ; 56.5; 0; ; 0.00; 0;occ; 113; 0;52519  
3; 560.5; 15-MAR-2012 05:14:55; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52519  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_212049\_000000343112\_00359\_52528\_6760.N1  
1;-1625.0; 15-MAR-2012 21:20:49; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;52528  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_215720\_000038583112\_00360\_52529\_6761.N1



1; 565.9; 15-MAR-2012 21:57:20; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;52529  
2; 4389.0; 15-MAR-2012 23:01:03; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;52529  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120315\_233734\_000038593112\_00361\_52530\_6762.N1  
1; 566.4; 15-MAR-2012 23:37:34; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;52530  
2; 4389.1; 16-MAR-2012 00:41:17; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;52530  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_061524\_000024283112\_00350\_52519\_5812.N1  
1; -1823.8; 15-MAR-2012 06:15:24; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52519  
2; 297.7; 15-MAR-2012 06:50:46; Dark ; 55.5; 0; ; 0.00; 0;occ; 111; 0;52520  
3; 561.1; 15-MAR-2012 06:55:09; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;52520  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_075539\_000024413112\_00351\_52520\_5813.N1  
1; -1823.7; 15-MAR-2012 07:55:39; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;52520  
2; 298.3; 15-MAR-2012 08:31:01; Dark ; 54.5; 0; ; 0.00; 0;occ; 109; 0;52521  
3; 561.7; 15-MAR-2012 08:35:24; Dark ; 56.5; 4; Alp1Cen ; -0.01; 5800;occ; 113; 0;52521  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_093553\_000024303112\_00352\_52521\_5814.N1  
1; -1823.6; 15-MAR-2012 09:35:53; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52521  
2; 298.9; 15-MAR-2012 10:11:15; Dark ; 54.5; 0; ; 0.00; 0;occ; 109; 0;52522  
3; 562.2; 15-MAR-2012 10:15:38; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;52522  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_111606\_000024393112\_00353\_52522\_5815.N1  
1; -1823.7; 15-MAR-2012 11:16:06; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52522  
2; 562.9; 15-MAR-2012 11:55:53; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;52523  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_125620\_000024283112\_00354\_52523\_5816.N1  
1; -1823.5; 15-MAR-2012 12:56:20; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;52523  
2; 563.3; 15-MAR-2012 13:36:07; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;52524  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_151622\_000000423112\_00356\_52525\_5817.N1  
1; 563.8; 15-MAR-2012 15:16:22; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;52525  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_165636\_000000433112\_00357\_52526\_5818.N1  
1; 564.4; 15-MAR-2012 16:56:36; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;52526  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_183651\_000000493112\_00358\_52527\_5819.N1  
1; 564.9; 15-MAR-2012 18:36:51; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;52527  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120315\_194035\_000022433112\_00358\_52527\_5820.N1  
1; -1625.1; 15-MAR-2012 19:40:35; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;52527  
2; 565.4; 15-MAR-2012 20:17:05; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;52528  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120316\_011750\_000038743112\_00362\_52531\_6763.N1  
1; 568.0; 16-MAR-2012 01:17:50; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;52531  
2; 4389.3; 16-MAR-2012 02:21:31; Bright; 53.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 107; 0;52531  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120316\_040145\_000000353112\_00363\_52532\_6764.N1  
1; -1624.5; 16-MAR-2012 04:01:45; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;52532  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120316\_054159\_000000363112\_00364\_52533\_6765.N1  
1; -1624.4; 16-MAR-2012 05:41:59; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;52533  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120316\_222420\_000000333112\_00374\_52543\_6767.N1  
1; -1623.1; 16-MAR-2012 22:24:20; Bright; 33.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 67; 0;52543  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_072213\_000000533112\_00365\_52534\_5821.N1  
1; -1624.4; 16-MAR-2012 07:22:13; Bright; 53.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 107; 0;52534  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_090227\_000000383112\_00366\_52535\_5822.N1  
1; -1624.2; 16-MAR-2012 09:02:27; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;52535  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_104241\_000000363112\_00367\_52536\_5823.N1  
1; -1624.0; 16-MAR-2012 10:42:41; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;52536  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_122255\_000000353112\_00368\_52537\_5824.N1  
1; -1623.8; 16-MAR-2012 12:22:55; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;52537  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_140309\_000000373112\_00369\_52538\_5827.N1  
1; -1623.7; 16-MAR-2012 14:03:09; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;52538  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_154323\_000000353112\_00370\_52539\_5828.N1  
1; -1623.6; 16-MAR-2012 15:43:23; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;52539  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_172338\_000000353112\_00371\_52540\_5829.N1  
1; -1623.5; 16-MAR-2012 17:23:38; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;52540  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120316\_190352\_000000383112\_00372\_52541\_5830.N1  
1; -1623.4; 16-MAR-2012 19:03:52; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;52541  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120318\_201337\_000000363112\_00402\_52571\_6768.N1  
1; 957.0; 18-MAR-2012 20:13:37; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 16;52571  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120318\_213050\_000014183112\_00402\_52571\_6769.N1  
1; -423.7; 18-MAR-2012 21:30:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52571  
2; 949.3; 18-MAR-2012 21:53:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;52572  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120318\_231104\_000014163112\_00403\_52572\_6770.N1  
1; -423.1; 18-MAR-2012 23:11:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52572  
2; 949.7; 18-MAR-2012 23:33:57; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;52573  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_083148\_000000403112\_00395\_52564\_5831.N1  
1; 946.4; 18-MAR-2012 08:31:48; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;52564  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_094908\_000014153112\_00395\_52564\_5832.N1

1; -427.8; 18-MAR-2012 09:49:08; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52564  
2; 946.6; 18-MAR-2012 10:12:02; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;52565  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_112922\_000014163112\_00396\_52565\_5833.N1  
1; -427.2; 18-MAR-2012 11:29:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52565  
2; 946.9; 18-MAR-2012 11:52:17; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;52566  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_130937\_000014133112\_00397\_52566\_5834.N1  
1; -426.7; 18-MAR-2012 13:09:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52566  
2; 947.4; 18-MAR-2012 13:32:31; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;52567  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_144951\_000014133112\_00398\_52567\_5835.N1  
1; -426.1; 18-MAR-2012 14:49:51; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52567  
2; 947.7; 18-MAR-2012 15:12:45; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;52568  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_163006\_000014143112\_00399\_52568\_5836.N1  
1; -425.5; 18-MAR-2012 16:30:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52568  
2; 948.2; 18-MAR-2012 16:53:00; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;52569  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_181021\_000014143112\_00400\_52569\_5837.N1  
1; -424.9; 18-MAR-2012 18:10:21; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52569  
2; 948.6; 18-MAR-2012 18:33:14; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;52570  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120318\_195035\_000014183112\_00401\_52570\_5838.N1  
1; -424.3; 18-MAR-2012 19:50:35; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52570  
2; 949.0; 18-MAR-2012 20:13:29; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;52571  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120319\_011411\_000000413112\_00405\_52574\_6771.N1  
1; 950.1; 19-MAR-2012 01:14:11; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;52574  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120319\_025426\_000000423112\_00406\_52575\_6772.N1  
1; 950.6; 19-MAR-2012 02:54:26; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;52575  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120319\_043440\_000000393112\_00407\_52576\_6773.N1  
1; 950.9; 19-MAR-2012 04:34:40; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;52576  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120319\_061454\_000000423112\_00408\_52577\_6774.N1  
1; 951.4; 19-MAR-2012 06:14:54; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;52577  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120319\_075509\_000000433112\_00409\_52578\_5839.N1  
1; 951.8; 19-MAR-2012 07:55:09; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;52578  
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1; 2859.1; 23-MAR-2012 21:02:02; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0; -1  
2; 2950.2; 23-MAR-2012 21:03:33; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0; -1  
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2; 2950.1; 23-MAR-2012 22:43:47; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0; -1  
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1; 2860.4; 23-MAR-2012 07:40:12; Bright; 27.0; 82; 48Bet UMA ; 2.37; 10600;occ; 54; 0; -1  
2; 2951.5; 23-MAR-2012 07:41:43; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0; -1  
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2; 2951.4; 23-MAR-2012 09:21:57; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1  
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2; 2951.2; 23-MAR-2012 11:02:11; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1  
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2; 2951.0; 23-MAR-2012 14:22:38; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0; -1
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2; 2950.7; 23-MAR-2012 16:02:52; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0; -1
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2; 2950.5; 23-MAR-2012 17:43:06; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0; -1
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2; 2950.4; 23-MAR-2012 19:23:20; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0; -1
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2; 2949.9; 24-MAR-2012 00:24:01; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0; -1
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2; 2949.9; 24-MAR-2012 02:04:15; Bright; 39.0; 36; 50Alp UMA ; 1.80; 6300;occ; 78; 0; -1
3; 8872.6; 24-MAR-2012 03:42:57; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0; -1
4; 8963.8; 24-MAR-2012 03:44:28; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0; -1
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2; 2949.5; 24-MAR-2012 07:04:56; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1
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2; 2857.2; 24-MAR-2012 22:05:29; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0; -1
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2; 2857.0; 24-MAR-2012 23:45:43; Bright; 34.5; 82; 48Bet UMA ; 2.37; 10600;occ; 69; 0; -1
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2; 2949.4; 24-MAR-2012 08:45:10; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0; -1
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2; 2949.2; 24-MAR-2012 10:25:24; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1
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2; 2949.0; 24-MAR-2012 12:05:37; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0; -1
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2; 2949.0; 24-MAR-2012 13:45:51; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0; -1
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1; 2857.7; 24-MAR-2012 17:04:48; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0; -1
2; 6840.6; 24-MAR-2012 18:11:11; Dark ; 26.5; 77; Eps Cen ; 2.30; 28000;occ; 53; 0; -1
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1; 2857.4; 24-MAR-2012 18:45:02; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0; -1
2; 6840.9; 24-MAR-2012 19:51:25; Dark ; 28.5; 77; Eps Cen ; 2.30; 28000;occ; 57; 0; -1
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1; 829.4; 25-MAR-2012 04:12:37; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; -1
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1;-2129.0; 25-MAR-2012 21:45:52; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0; -1
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2; 3884.7; 25-MAR-2012 23:26:06; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0; -1
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1;-2128.8; 25-MAR-2012 06:43:47; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1

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1;-2128.8; 25-MAR-2012 10:04:15; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0; -1
2; 831.2; 25-MAR-2012 10:53:35; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0; -1
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1;-2128.8; 25-MAR-2012 13:24:42; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
2; 832.1; 25-MAR-2012 14:14:03; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0; -1
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2; 832.6; 25-MAR-2012 15:54:18; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; -1
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2; 833.1; 25-MAR-2012 17:34:32; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; -1
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2; 833.3; 25-MAR-2012 19:14:47; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0; -1
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1;-2129.0; 25-MAR-2012 20:05:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0; -1
2; 833.8; 25-MAR-2012 20:55:01; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0; -1
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2; 3884.8; 26-MAR-2012 01:06:20; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0; -1
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1; 835.2; 26-MAR-2012 01:55:44; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0; -1
2; 3884.7; 26-MAR-2012 02:46:33; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
3; 6849.7; 26-MAR-2012 03:35:58; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0; -1
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1;-2129.1; 26-MAR-2012 04:26:48; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0; -1
2; 836.3; 26-MAR-2012 05:16:13; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0; -1
3; 2246.1; 26-MAR-2012 05:39:43; Bright; 29.5; 96; 68Del Leo ; 2.56; 9300;occ; 59; 0; -1
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1; 2245.3; 26-MAR-2012 20:41:48; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0; -1
2; 2655.7; 26-MAR-2012 20:48:38; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0; -1
3; 3884.4; 26-MAR-2012 21:09:07; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0; -1
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1; 2245.2; 26-MAR-2012 22:22:01; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0; -1
2; 2655.6; 26-MAR-2012 22:28:52; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0; -1
3; 3884.4; 26-MAR-2012 22:49:20; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
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2; 836.7; 26-MAR-2012 06:56:27; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0; -1
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2; 3884.8; 26-MAR-2012 07:47:15; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0; -1
3; 6851.0; 26-MAR-2012 08:36:42; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0; -1
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4; 6852.4; 26-MAR-2012 13:37:25; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0; -1
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