

# GOMOS Daily Report 05-JUL-2008

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 products](#)

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	07JUL2008 05:32:14
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (05JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (06JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

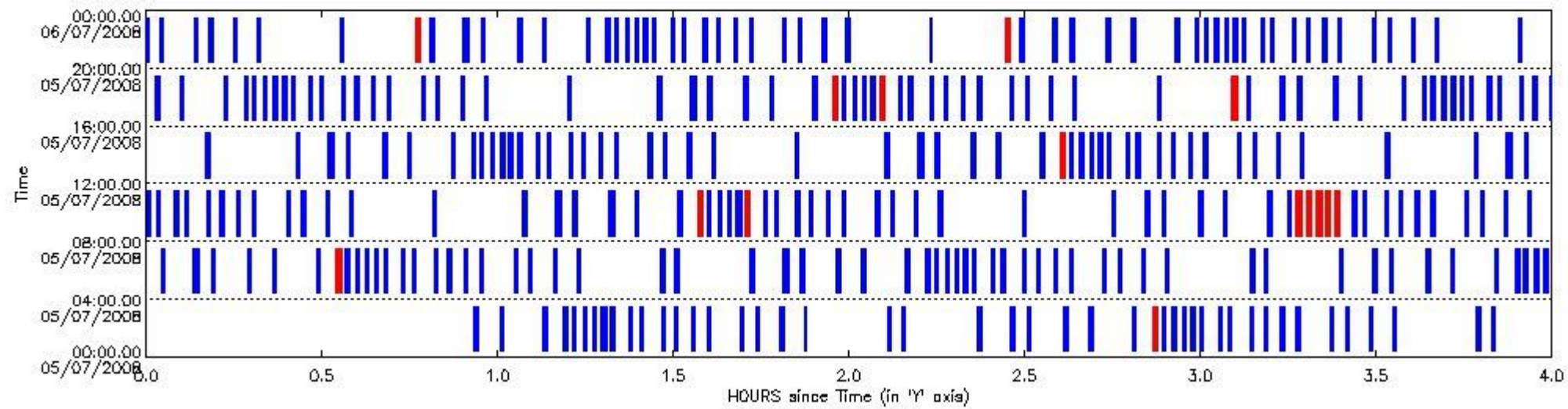
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



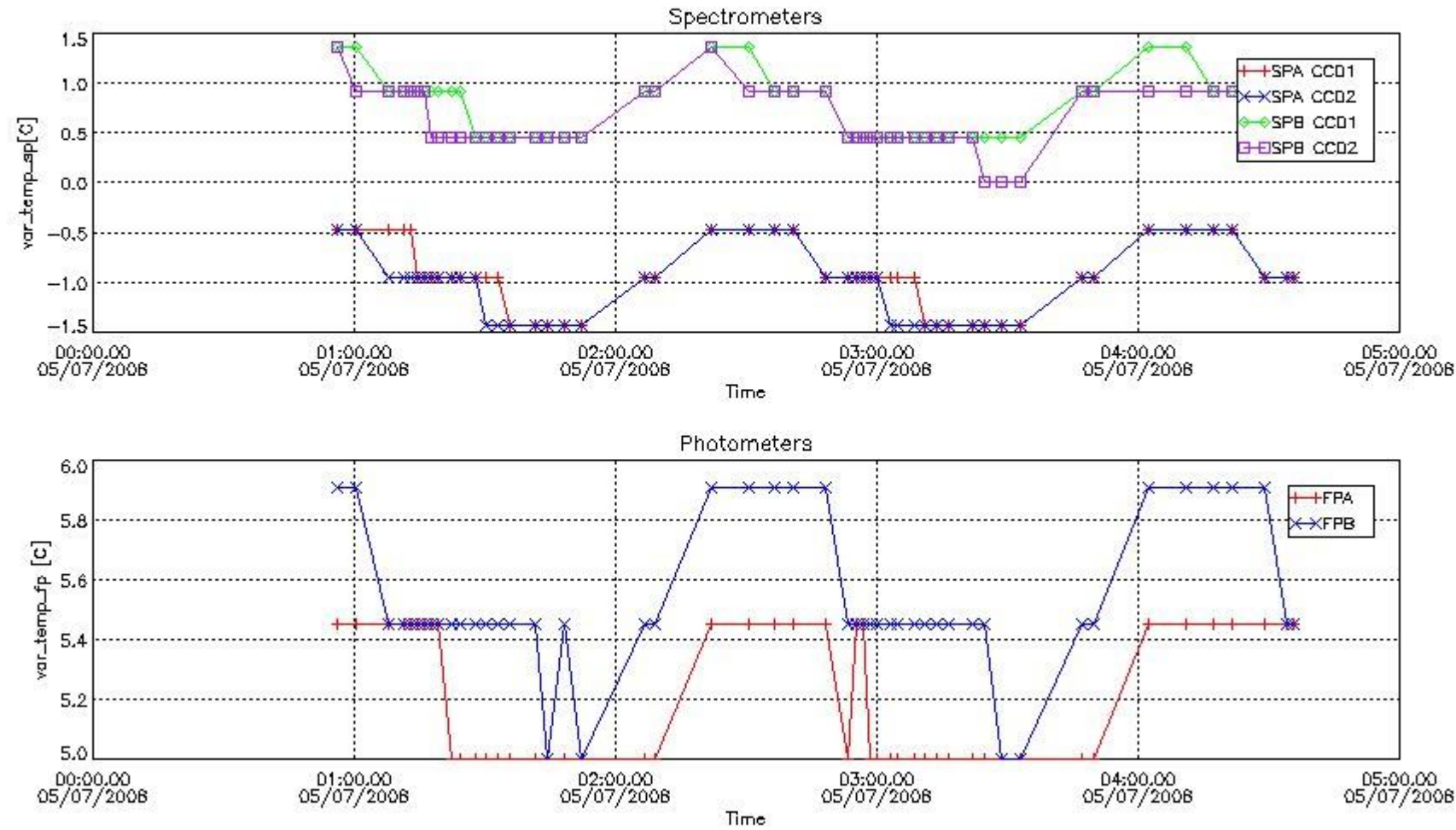
### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
05-JUL-2008 02:51:49	BetAra	141	33181
05-JUL-2008 04:32:26	BetAra	141	33182
05-JUL-2008 09:34:14	BetAra	141	33185
05-JUL-2008 09:42:15	23TauSco	136	33185
05-JUL-2008 11:16:19	AlpAra	147	33186
05-JUL-2008 11:18:08	TheSco	40	33186
05-JUL-2008 11:19:48	35LamSco	25	33186
05-JUL-2008 11:21:15	19DelSgr	116	33186
05-JUL-2008 11:22:51	23TauSco	136	33186
05-JUL-2008 14:36:02	BetAra	141	33188
05-JUL-2008 17:57:14	BetAra	141	33190
05-JUL-2008 18:05:15	23TauSco	136	33190
05-JUL-2008 19:05:24	19BetOri	7	33190
05-JUL-2008 20:46:00	19BetOri	7	33191
05-JUL-2008 22:26:36	19BetOri	7	33192

## 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_1PNPDE20080705_005559_000000432070_00060_33180_2643.N1	05-JUL-2008 00:55:59	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33180	No
2	GOM_TRA_1PNPDE20080705_010022_000000372070_00060_33180_2644.N1	05-JUL-2008 01:00:22	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33180	No
3	GOM_TRA_1PNPDE20080705_010746_000000422070_00060_33180_2645.N1	05-JUL-2008 01:07:46	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	33180	No
4	GOM_TRA_1PNPDE20080705_011116_000000442070_00060_33180_2646.N1	05-JUL-2008 01:11:16	Straylight	44.000	141	Bet Ara	2.8400	4600.0	88	33180	No
5	GOM_TRA_1PNPDE20080705_011246_000000372070_00060_33180_2647.N1	05-JUL-2008 01:12:46	Twi_and_stray	36.500	147	Alp Ara	2.8770	26000.	73	33180	No
6	GOM_TRA_1PNPDE20080705_011435_000000412070_00060_33180_2648.N1	05-JUL-2008 01:14:35	Twi_and_stray	41.000	40	The Sco	1.8590	7100.0	82	33180	No
7	GOM_TRA_1PNPDE20080705_011614_000000392070_00060_33180_2649.N1	05-JUL-2008 01:16:14	Twi_and_stray	38.500	25	35Lam Sco	1.6200	28000.	77	33180	No
8	GOM_TRA_1PNPDE20080705_011741_000000542070_00060_33180_2650.N1	05-JUL-2008 01:17:41	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	33180	No
9	GOM_TRA_1PNPDE20080705_011917_000000362070_00060_33180_2651.N1	05-JUL-2008 01:19:17	Bright	36.000	136	23Tau Sco	2.8220	30000.	72	33180	No
10	GOM_TRA_1PNPDE20080705_012224_000000382070_00060_33180_2652.N1	05-JUL-2008 01:22:24	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	33180	No
11	GOM_TRA_1PNPDE20080705_012411_000000372070_00060_33180_2653.N1	05-JUL-2008 01:24:11	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	33180	No
12	GOM_TRA_1PNPDE20080705_012754_000000362070_00060_33180_2654.N1	05-JUL-2008 01:27:54	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33180	No
13	GOM_TRA_1PNPDE20080705_013012_000000362070_00060_33180_2655.N1	05-JUL-2008 01:30:12	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33180	No
14	GOM_TRA_1PNPDE20080705_013306_000000342070_00060_33180_2656.N1	05-JUL-2008 01:33:06	Bright	33.500	127	27Bet Her	2.7810	4700.0	67	33180	No
15	GOM_TRA_1PNPDE20080705_013546_000000332070_00060_33180_2657.N1	05-JUL-2008 01:35:46	Bright	33.000	133	40Zet Her	2.8070	6000.0	66	33180	No
16	GOM_TRA_1PNPDE20080705_014132_000000332070_00060_33180_2658.N1	05-JUL-2008 01:41:32	Bright	33.000	130	23Bet Dra	2.7990	5800.0	66	33180	No
17	GOM_TRA_1PNPDE20080705_014407_000000372070_00060_33180_2659.N1	05-JUL-2008 01:44:07	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	33180	No
18	GOM_TRA_1PNPDE20080705_014812_000000362070_00060_33180_2660.N1	05-JUL-2008 01:48:12	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	33180	No
19	GOM_TRA_1PNPDE20080705_015216_000000322070_00060_33180_2661.N1	05-JUL-2008 01:52:16	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	33180	No
20	GOM_TRA_1PNPDE20080705_020635_000000372070_00060_33180_2662.N1	05-JUL-2008 02:06:35	Bright	36.500	149	45Eps Per	2.8880	30000.	73	33180	No
21	GOM_TRA_1PNPDE20080705_020900_000000412070_00060_33180_2663.N1	05-JUL-2008 02:09:00	Bright	40.500	150	44Zet Per	2.8900	28000.	81	33180	No
22	GOM_TRA_1PNPDE20080705_022151_000000442070_00060_33180_2482.N1	05-JUL-2008 02:21:51	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	33180	No
23	GOM_TRA_1PNPDE20080705_023026_000000382070_00060_33180_2483.N1	05-JUL-2008 02:30:26	Dark	38.000	157	The1Eri	2.9060	9300.0	76	33180	No
24	GOM_TRA_1PNPDE20080705_023636_000000502070_00061_33181_2484.N1	05-JUL-2008 02:36:36	Dark	50.000	9	Alp Eri	0.45300	24000.	100	33181	No
25	GOM_TRA_1PNPDE20080705_024058_000000372070_00061_33181_2485.N1	05-JUL-2008 02:40:58	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33181	No
26	GOM_TRA_1PNPDE20080705_024823_000000412070_00061_33181_2486.N1	05-JUL-2008 02:48:23	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	33181	No
27	GOM_TRA_1PNPDE20080705_025322_000000372070_00061_33181_2487.N1	05-JUL-2008 02:53:22	Twi_and_stray	37.000	147	Alp Ara	2.8770	26000.	74	33181	No
28	GOM_TRA_1PNPDE20080705_025511_000000422070_00061_33181_2488.N1	05-JUL-2008 02:55:11	Twi_and_stray	41.500	40	The Sco	1.8590	7100.0	83	33181	No
29	GOM_TRA_1PNPDE20080705_025651_000000392070_00061_33181_2489.N1	05-JUL-2008 02:56:51	Twi_and_stray	39.000	25	35Lam Sco	1.6200	28000.	78	33181	No
30	GOM_TRA_1PNPDE20080705_025817_000000542070_00061_33181_2490.N1	05-JUL-2008 02:58:17	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	33181	No
31	GOM_TRA_1PNPDE20080705_025953_000000372070_00061_33181_2491.N1	05-JUL-2008 02:59:53	Bright	36.500	136	23Tau Sco	2.8220	30000.	73	33181	No
32	GOM_TRA_1PNPDE20080705_030300_000000372070_00061_33181_2492.N1	05-JUL-2008 03:03:00	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	33181	No
33	GOM_TRA_1PNPDE20080705_030447_000000352070_00061_33181_2493.N1	05-JUL-2008 03:04:47	Bright	35.000	98	13Zet Oph	2.5710	30000.	70	33181	No
34	GOM_TRA_1PNPDE20080705_030830_000000362070_00061_33181_2494.N1	05-JUL-2008 03:08:30	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	33181	No
35	GOM_TRA_1PNPDE20080705_031048_000000362070_00061_33181_2495.N1	05-JUL-2008 03:10:48	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	33181	No
36	GOM_TRA_1PNPDE20080705_031342_000000382070_00061_33181_2496.N1	05-JUL-2008 03:13:42	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	33181	No
37	GOM_TRA_1PNPDE20080705_031622_000000362070_00061_33181_2497.N1	05-JUL-2008 03:16:22	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33181	No
38	GOM_TRA_1PNPDE20080705_032208_000000372070_00061_33181_2498.N1	05-JUL-2008 03:22:08	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	33181	No
39	GOM_TRA_1PNPDE20080705_032443_000000342070_00061_33181_2499.N1	05-JUL-2008 03:24:43	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	33181	No
40	GOM_TRA_1PNPDE20080705_032848_000000332070_00061_33181_2500.N1	05-JUL-2008 03:28:48	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	33181	No
41	GOM_TRA_1PNPDE20080705_033252_000000342070_00061_33181_2501.N1	05-JUL-2008 03:32:52	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	33181	No
42	GOM_TRA_1PNPDE20080705_034711_000000352070_00061_33181_2740.N1	05-JUL-2008 03:47:11	Bright	35.000	149	45Eps Per	2.8880	30000.	70	33181	No
43	GOM_TRA_1PNPDE20080705_034936_000000422070_00061_33181_2741.N1	05-JUL-2008 03:49:36	Bright	41.500	150	44Zet Per	2.8900	28000.	83	33181	No
44	GOM_TRA_1PNPDE20080705_040227_000000412070_00061_33181_2742.N1	05-JUL-2008 04:02:27	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	33181	No
45	GOM_TRA_1PNPDE20080705_041102_000000392070_00061_33181_2743.N1	05-JUL-2008 04:11:02	Dark	38.500	157	The1Eri	2.9060	9300.0	77	33181	No
46	GOM_TRA_1PNPDE20080705_041712_000000402070_00062_33182_2744.N1	05-JUL-2008 04:17:12	Dark	39.500	9	Alp Eri	0.45300	24000.	79	33182	No
47	GOM_TRA_1PNPDE20080705_042134_000000362070_00062_33182_2745.N1	05-JUL-2008 04:21:34	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	33182	No
48	GOM_TRA_1PNPDE20080705_042859_000000442070_00062_33182_2746.N1	05-JUL-2008 04:28:59	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	33182	No
49	GOM_TRA_1PNPDE20080705_043358_000000392070_00062_33182_2747.N1	05-JUL-2008 04:33:58	Twi_and_stray	38.500	147	Alp Ara	2.8770	26000.	77	33182	No
50	GOM_TRA_1PNPDE20080705_043547_000000412070_00062_33182_2748.N1	05-JUL-2008 04:35:47	Twi_and_stray	40.500	40	The Sco	1.8590	7100.0	81	33182	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.

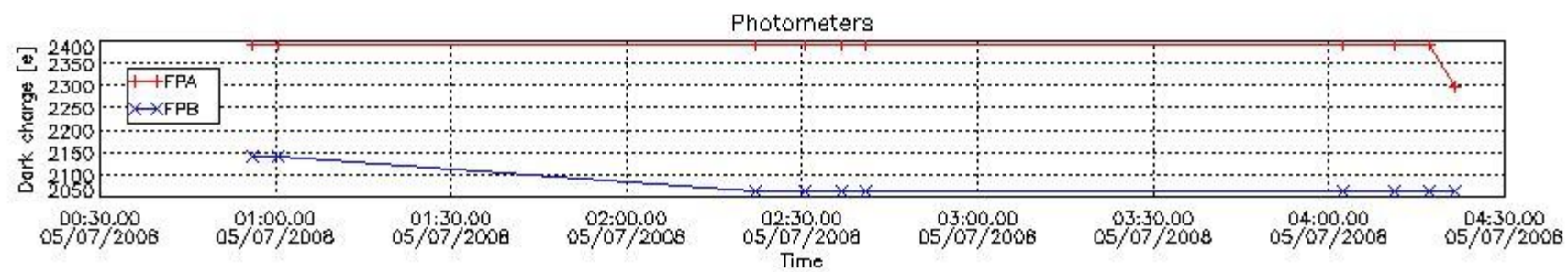
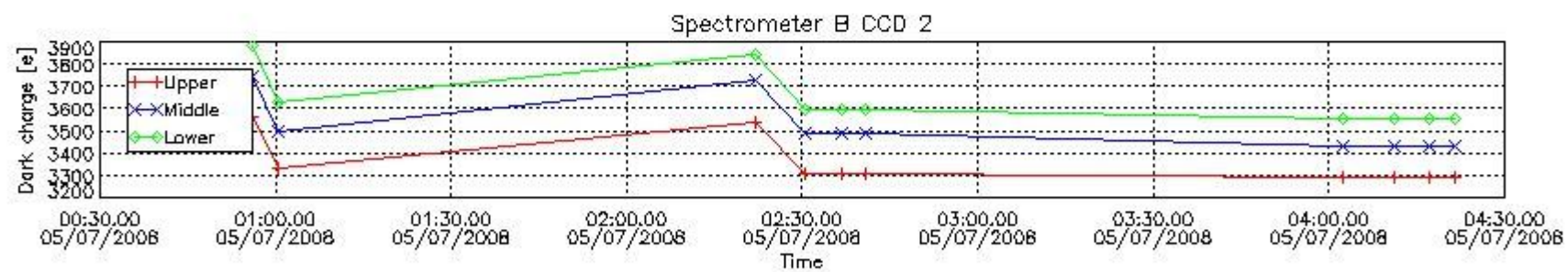
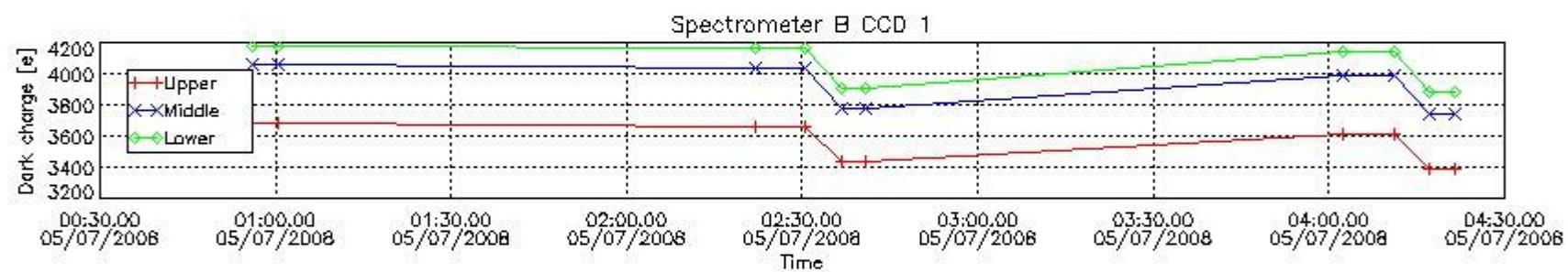
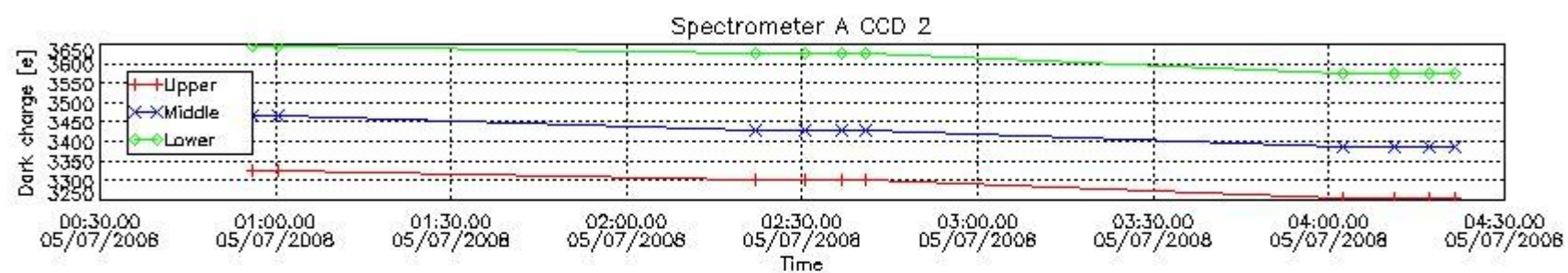
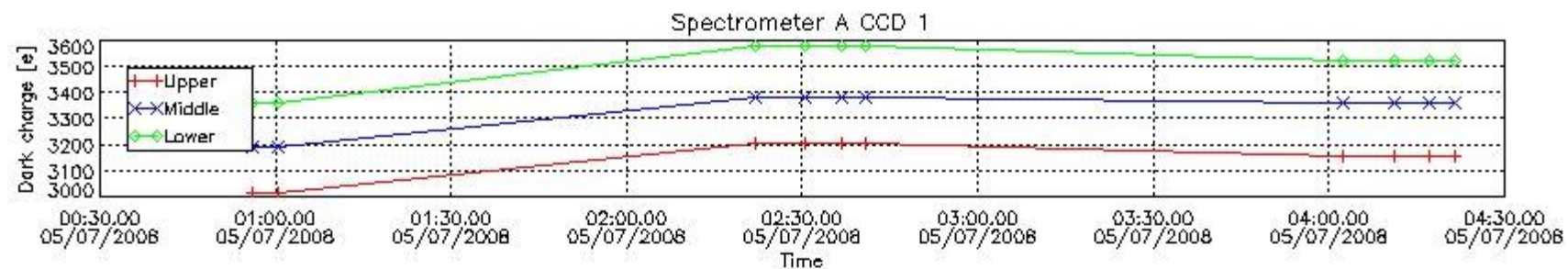
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20080705_005559_000000432070_00060_33180_2643.N1	DC map used
GOM_TRA_1PNPDE20080705_010022_000000372070_00060_33180_2644.N1	DC map used
GOM_TRA_1PNPDE20080705_010746_000000422070_00060_33180_2645.N1	DC map used
GOM_TRA_1PNPDE20080705_011116_000000442070_00060_33180_2646.N1	DC map used
GOM_TRA_1PNPDE20080705_011246_000000372070_00060_33180_2647.N1	DC map used
GOM_TRA_1PNPDE20080705_011435_000000412070_00060_33180_2648.N1	DC map used
GOM_TRA_1PNPDE20080705_011614_000000392070_00060_33180_2649.N1	DC map used
GOM_TRA_1PNPDE20080705_011741_000000542070_00060_33180_2650.N1	DC map used
GOM_TRA_1PNPDE20080705_011917_000000362070_00060_33180_2651.N1	DC map used
GOM_TRA_1PNPDE20080705_012224_000000382070_00060_33180_2652.N1	DC map used
GOM_TRA_1PNPDE20080705_012411_000000372070_00060_33180_2653.N1	DC map used
GOM_TRA_1PNPDE20080705_012754_000000362070_00060_33180_2654.N1	DC map used
GOM_TRA_1PNPDE20080705_013012_000000362070_00060_33180_2655.N1	DC map used
GOM_TRA_1PNPDE20080705_013306_000000342070_00060_33180_2656.N1	DC map used



GOM_TRA_1PNPDE20080705_013546_000000332070_00060_33180_2657.N1	DC map used
GOM_TRA_1PNPDE20080705_014132_000000332070_00060_33180_2658.N1	DC map used
GOM_TRA_1PNPDE20080705_014407_000000372070_00060_33180_2659.N1	DC map used
GOM_TRA_1PNPDE20080705_014812_000000362070_00060_33180_2660.N1	DC map used
GOM_TRA_1PNPDE20080705_015216_000000322070_00060_33180_2661.N1	DC map used
GOM_TRA_1PNPDE20080705_020635_000000372070_00060_33180_2662.N1	DC map used
GOM_TRA_1PNPDE20080705_020900_000000412070_00060_33180_2663.N1	DC map used

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



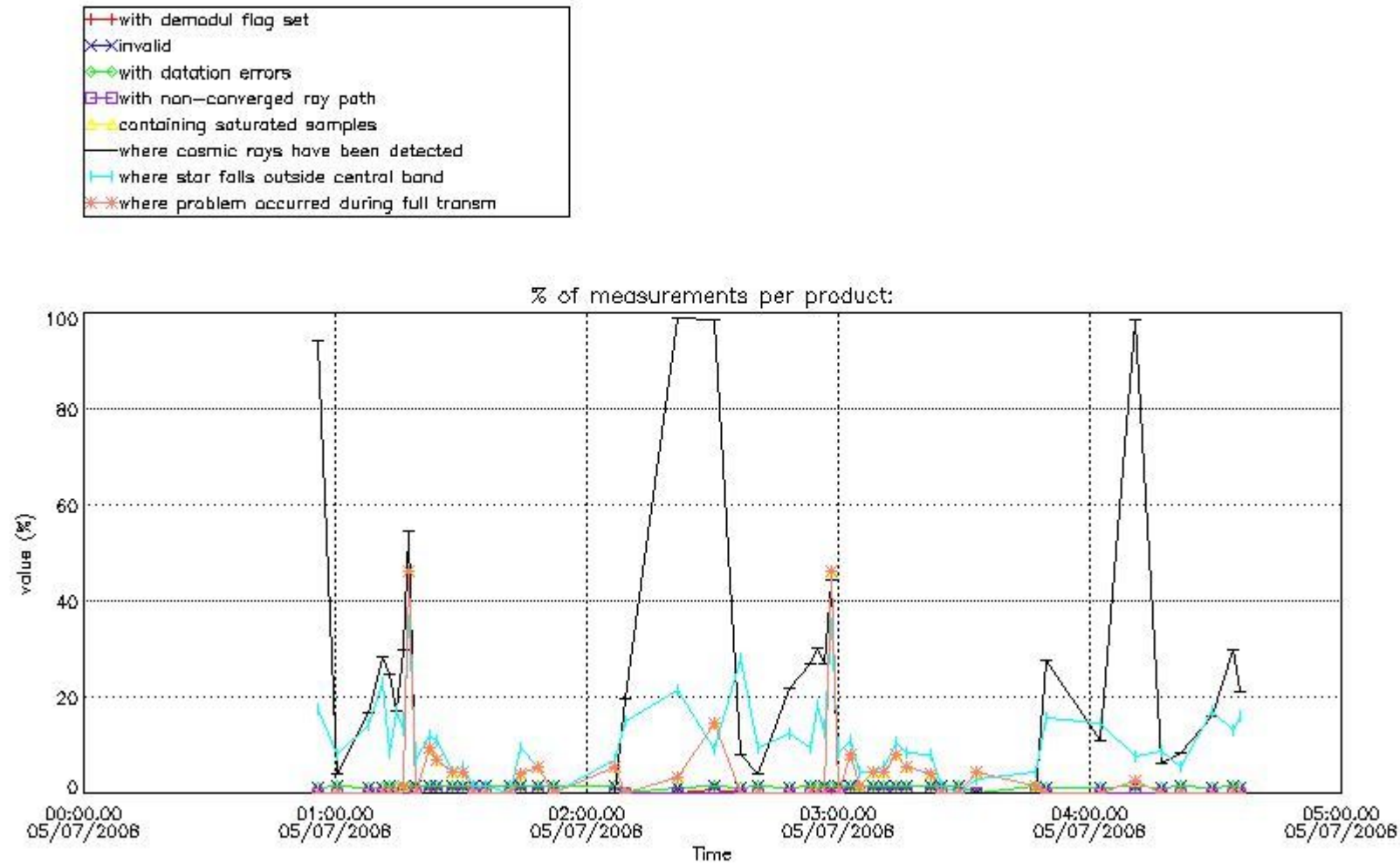
## 5. Demodulation flag and quality information monitoring

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:

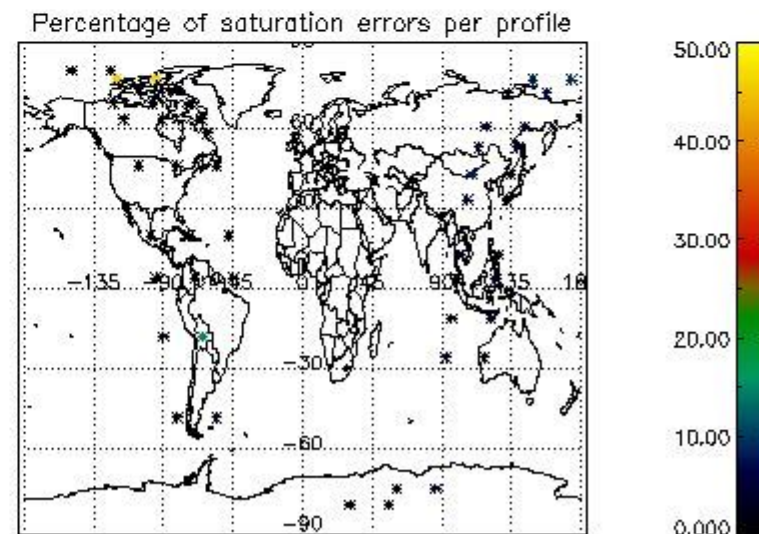
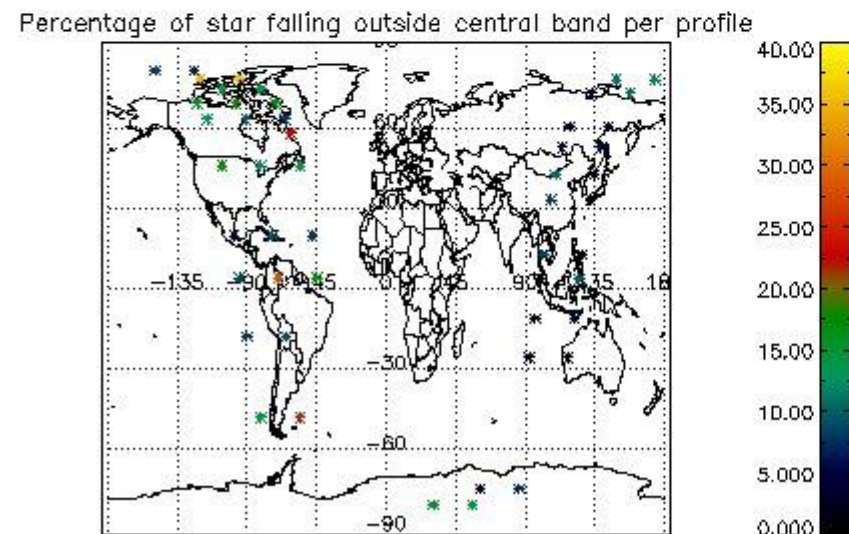
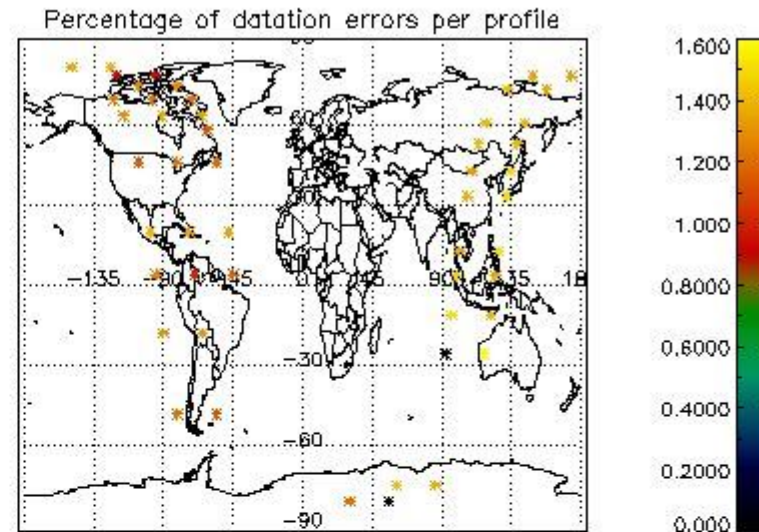
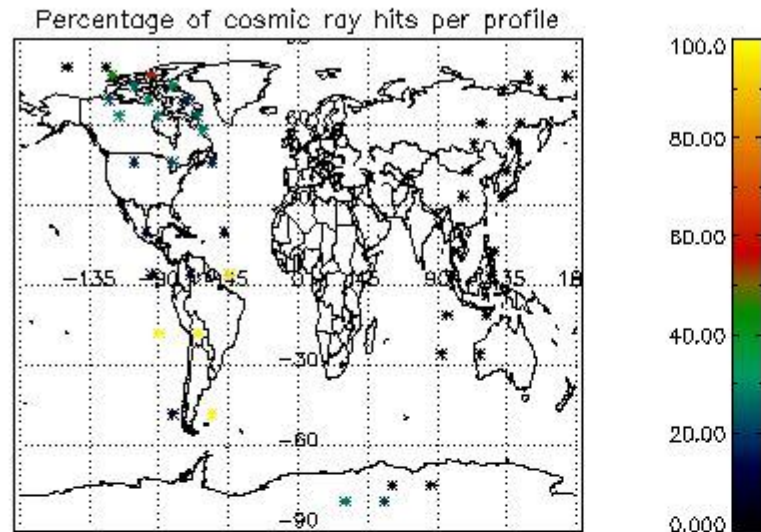
At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





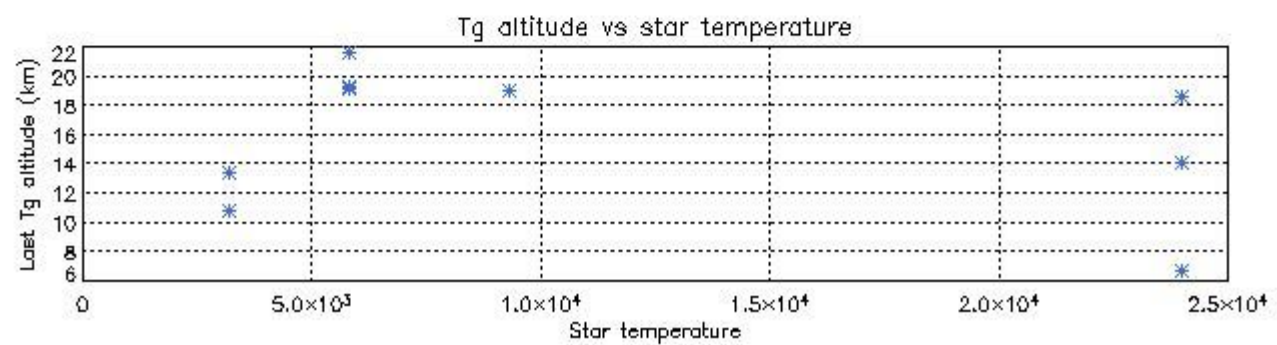
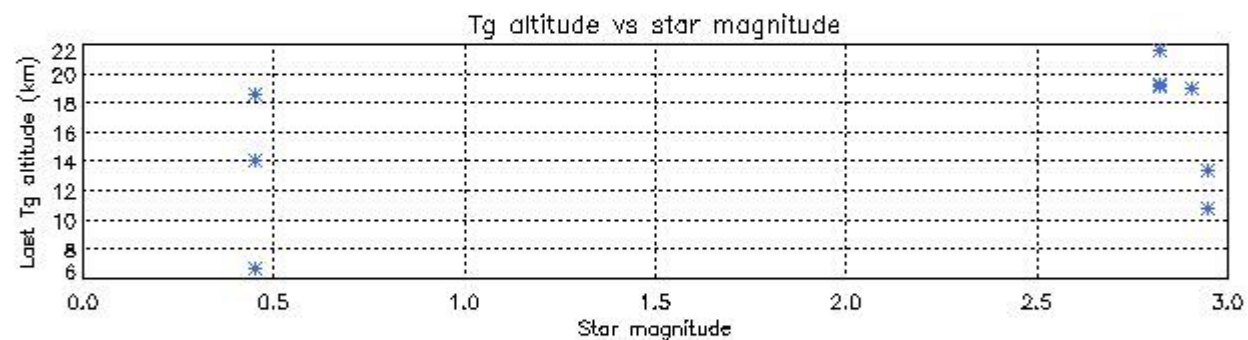
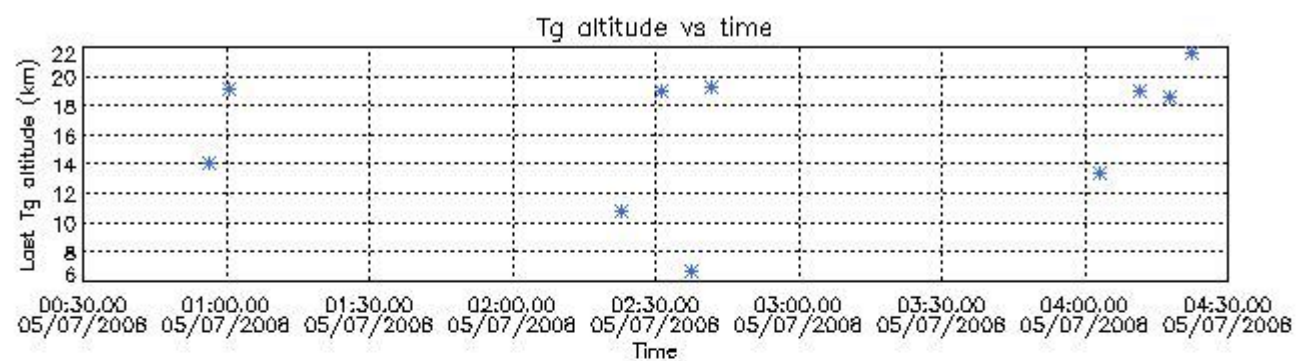
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.142	20.453	NaN
St. deviation:	4.7406	6.0998	NaN
Maximum:	21.628	31.111	NaN
Minimum:	6.6837	3.6374	NaN
Number of data:	10.000	28.000	NaN

### 6.2 Plot for DARK limb products

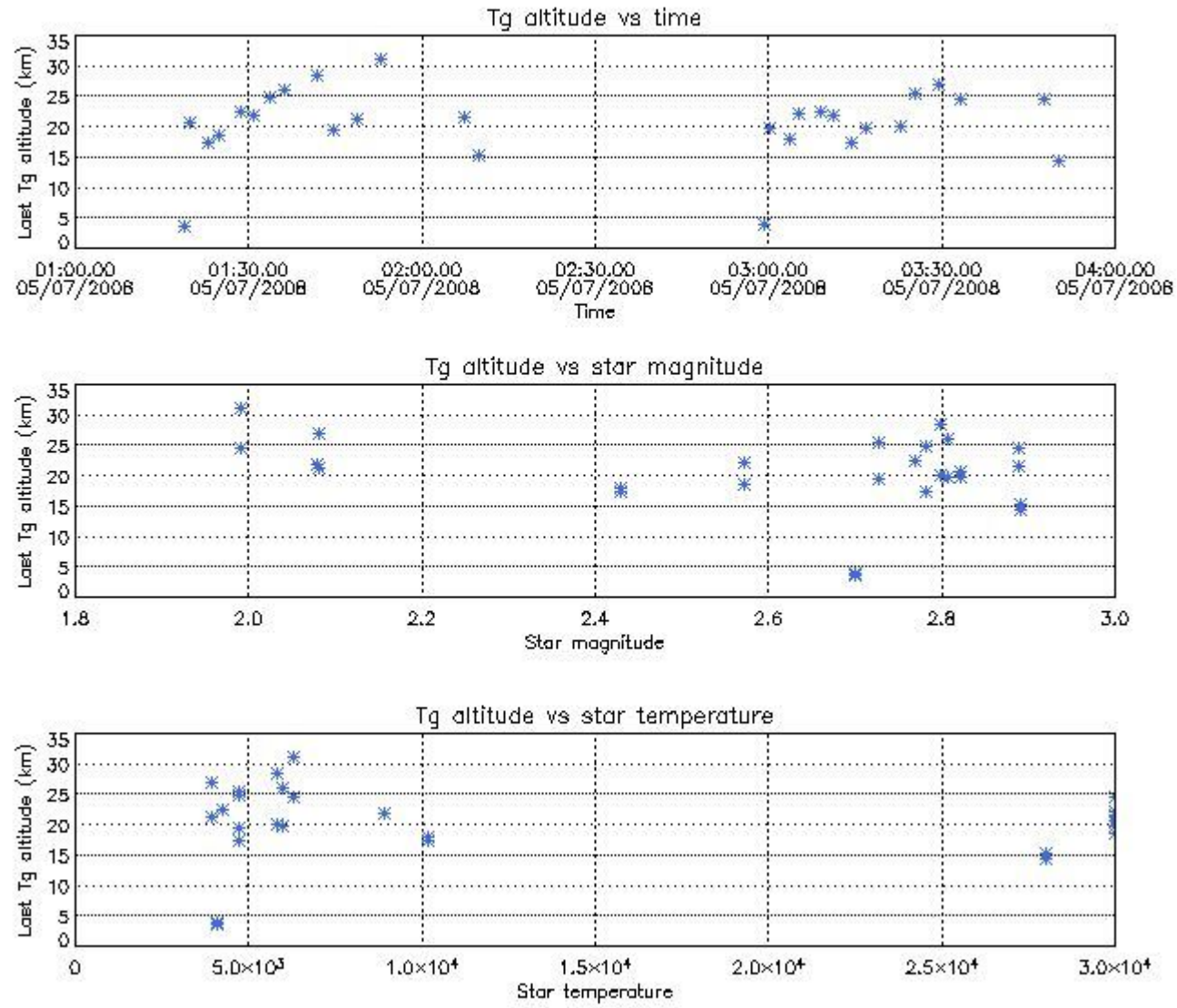
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

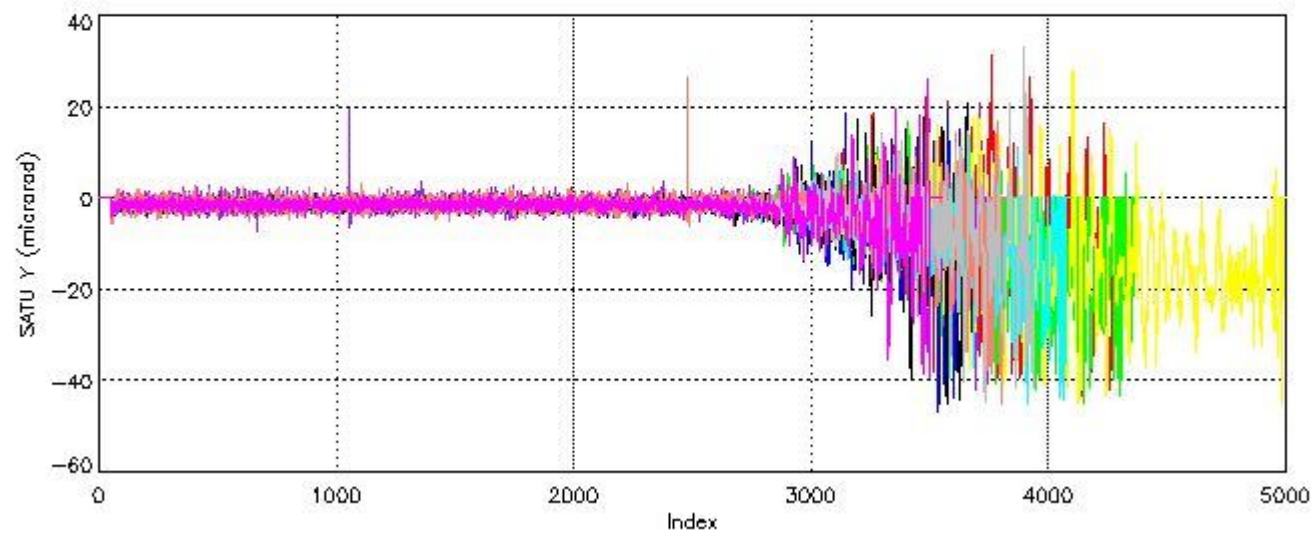
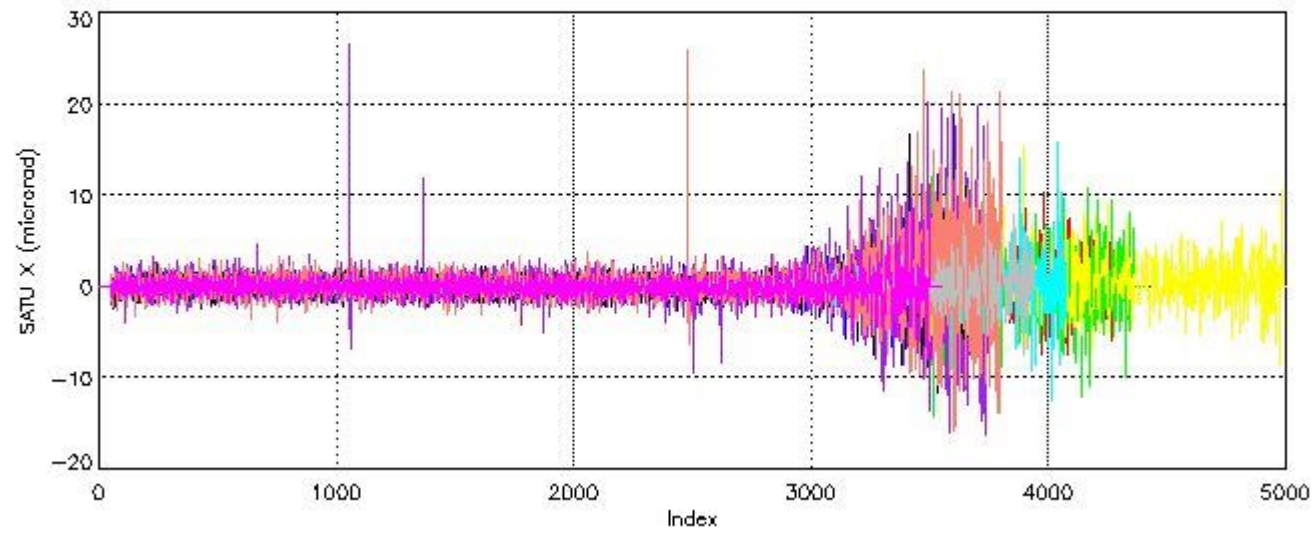


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.069497	-1.3698	0.012544	-1.3859
St. deviation:	0.54553	0.77128	0.85891	1.0230
Maximum:	4.5000	2.8000	4.9000	5.4000
Minimum:	-3.9000	-7.4000	-6.1000	-7.8000

Number of data:	8700.0	8700.0	23050.	23050.
-----------------	--------	--------	--------	--------

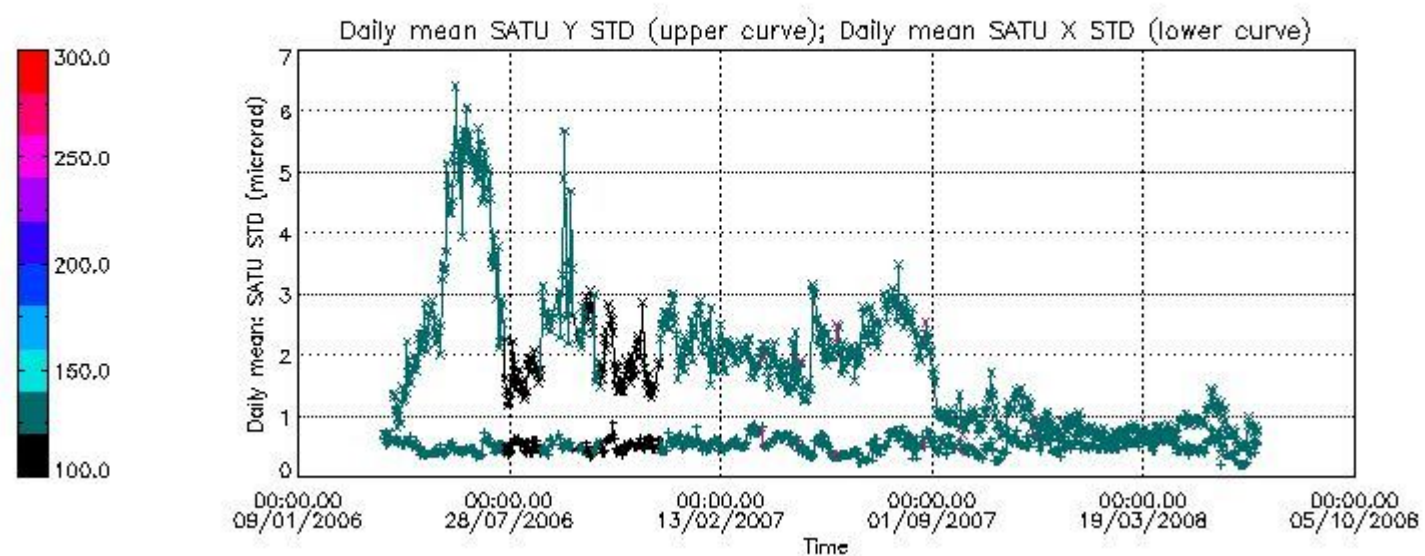
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



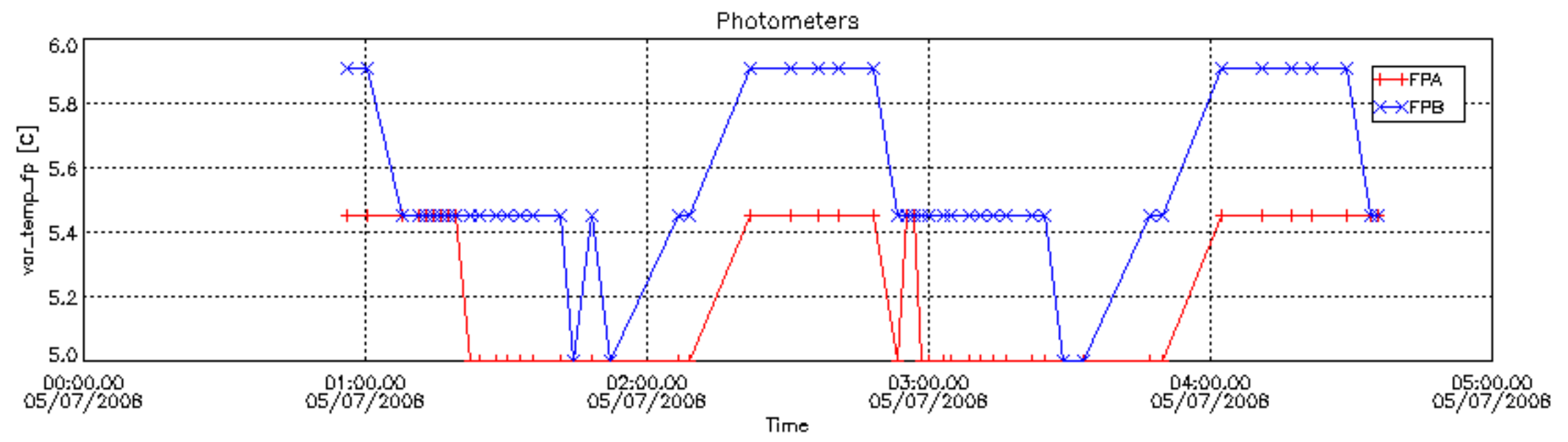
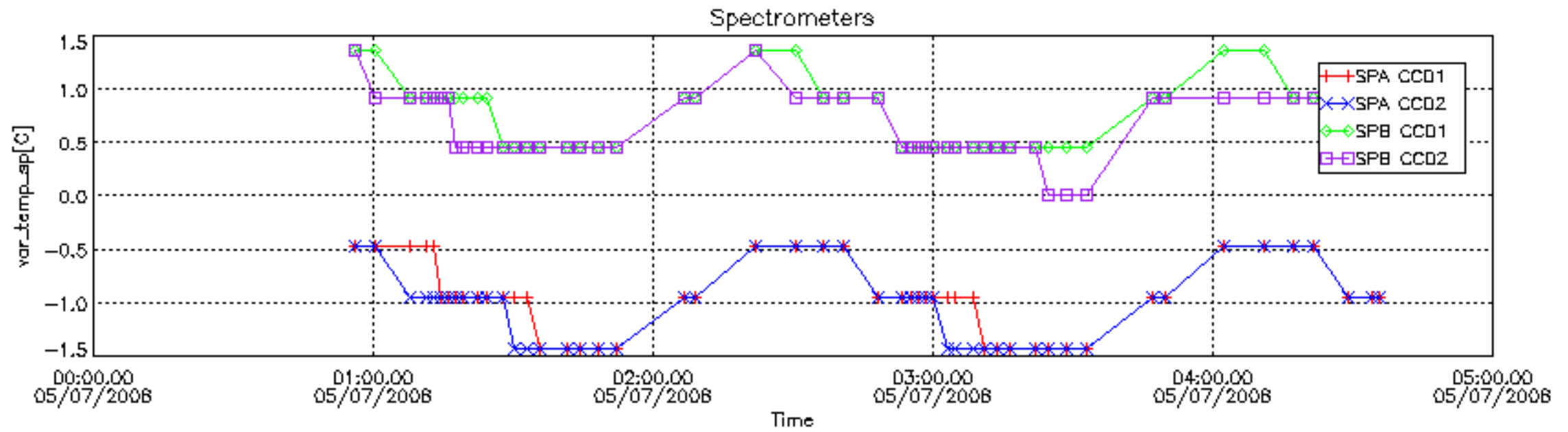
### 8. Auxiliary Data Files used for the production reported in section 2.4

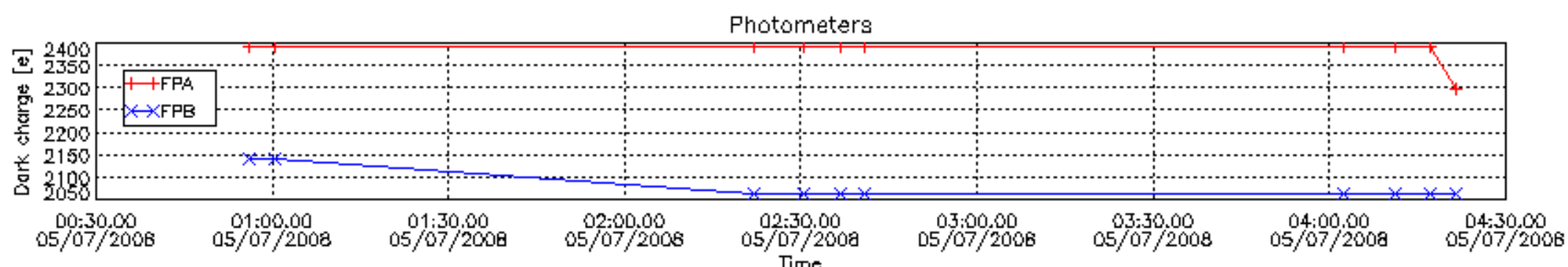
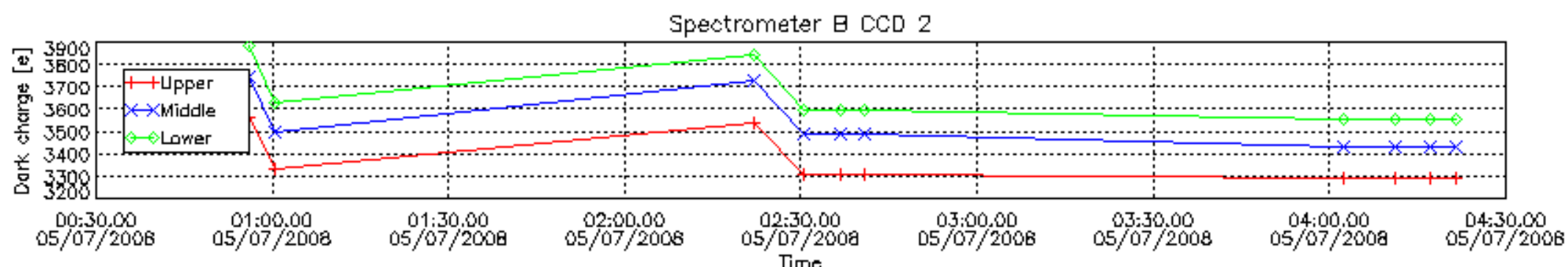
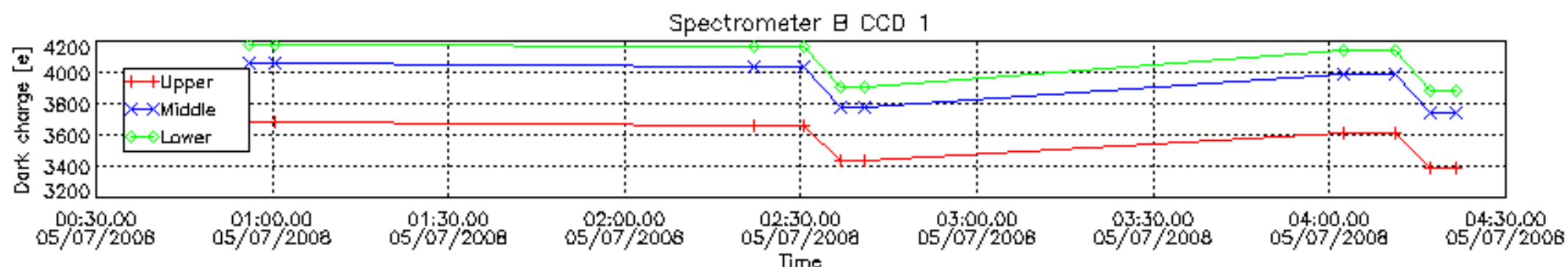
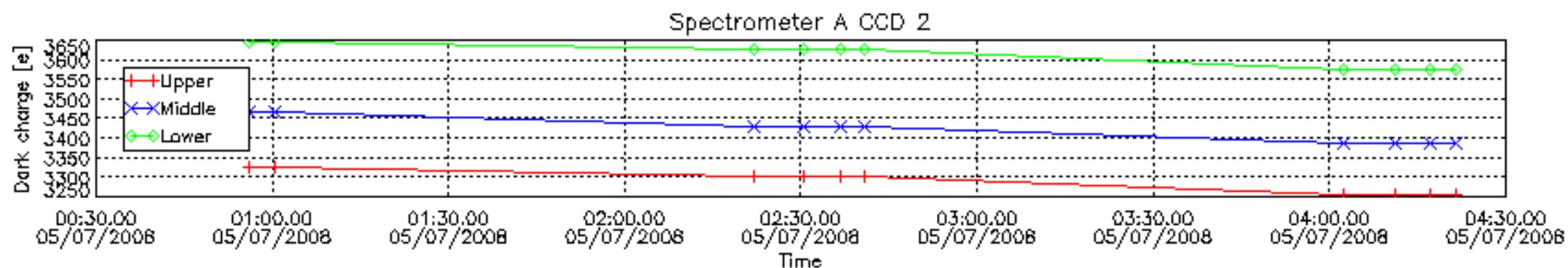
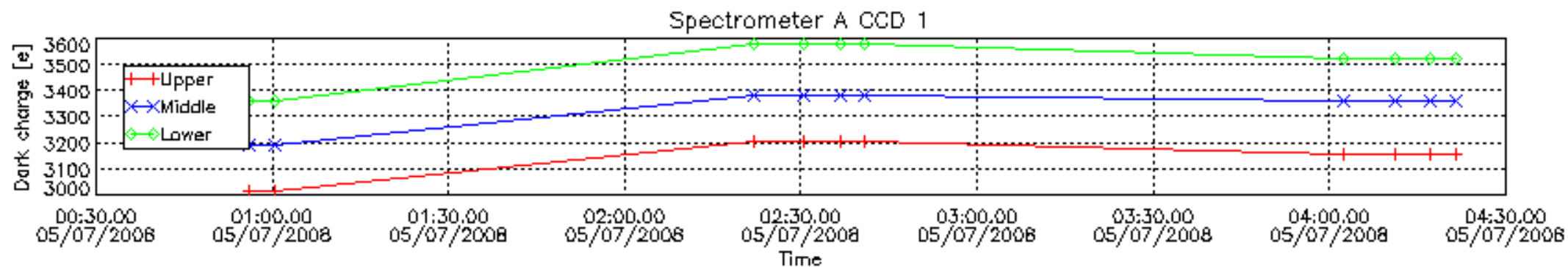
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	05-JUL-2008 00:55:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080630_090115_20080628_000000_20100101_000000	1	05-JUL-2008 00:55:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	05-JUL-2008 00:55:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JUL-2008 00:55:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	05-JUL-2008 00:55:59
ECMWF_FILE	AUX_ECF_AXNECM20080704_072113_20080704_210000_20080705_090000	1	05-JUL-2008 00:55:59
ECMWF_FILE	AUX_ECF_AXNECM20080704_192113_20080705_030000_20080705_150000	42	05-JUL-2008 03:47:11
OPTIONAL_ECMWF_FILE	MISSING	1	05-JUL-2008 00:55:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080704_225704_000057382070_00058_33178_5888.N1	1	05-JUL-2008 00:55:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080705_021339_000044632070_00060_33180_5889.N1	42	05-JUL-2008 03:47:11

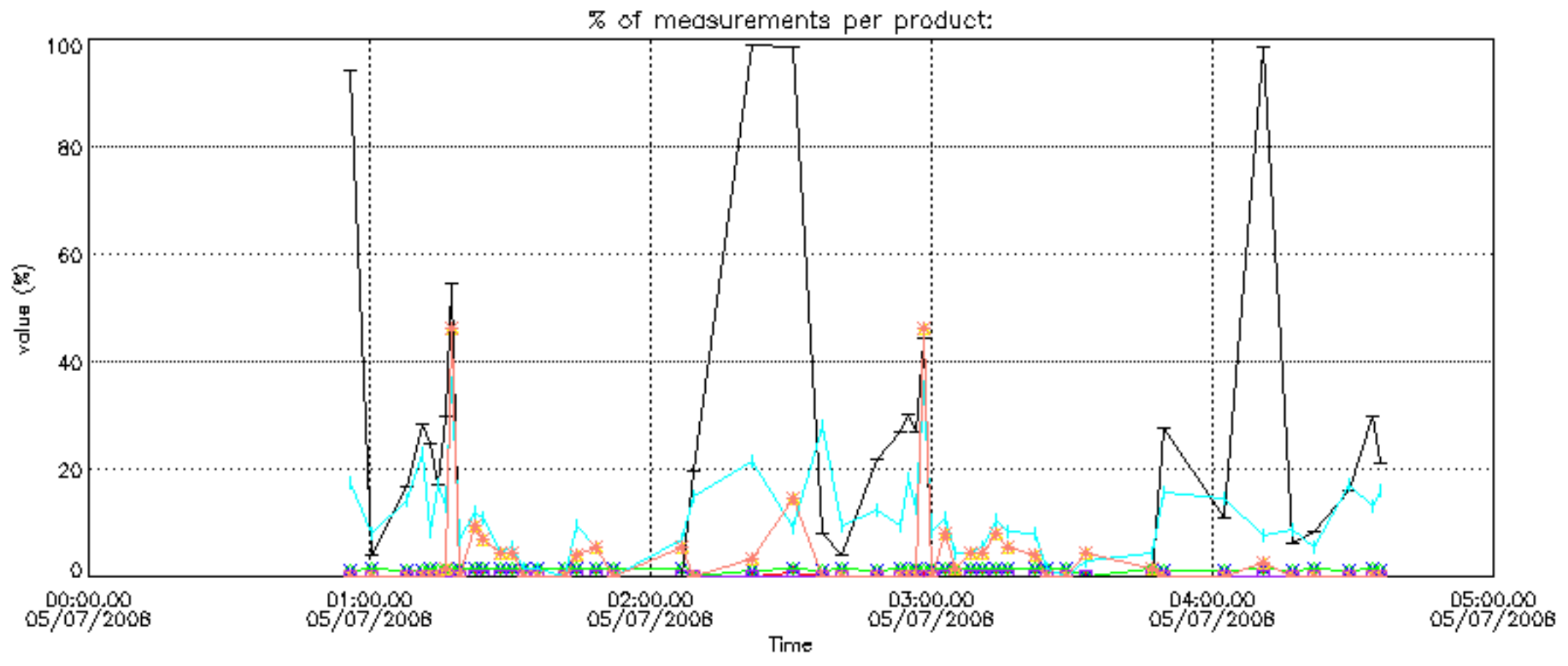




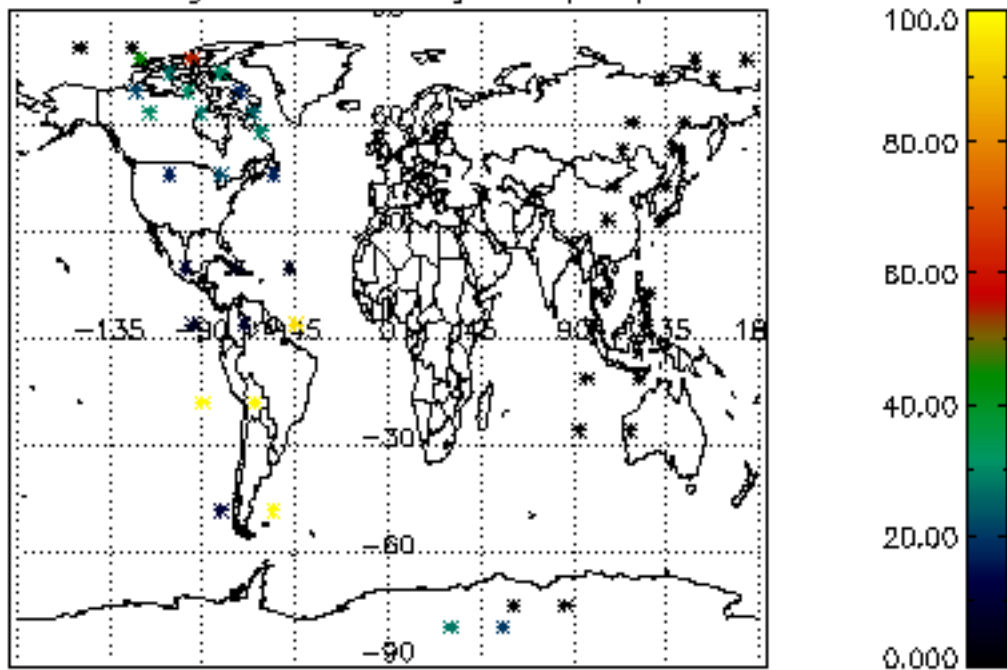




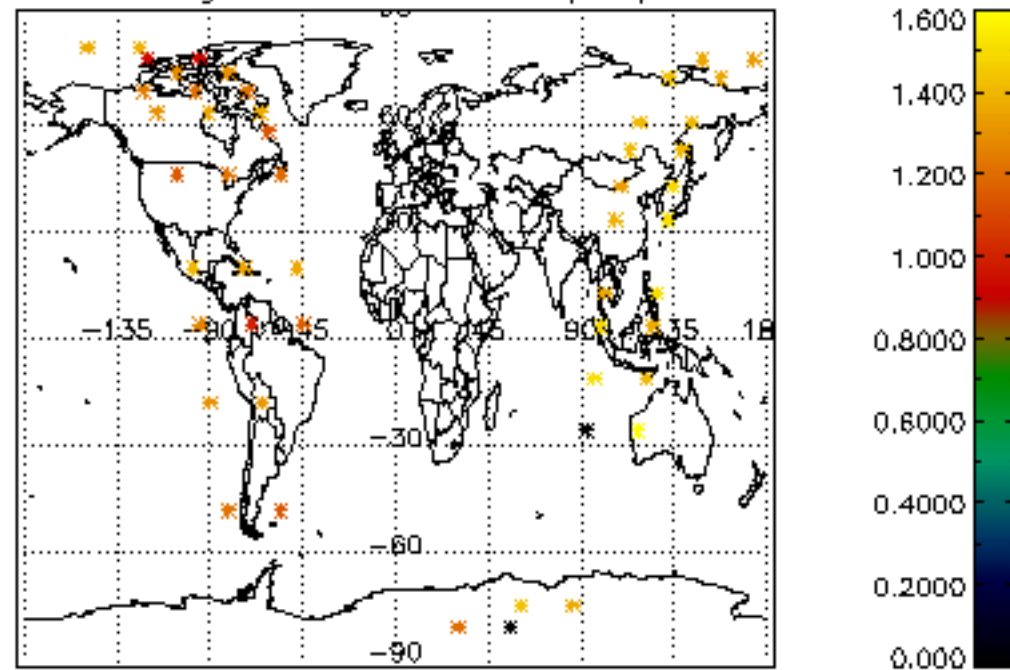




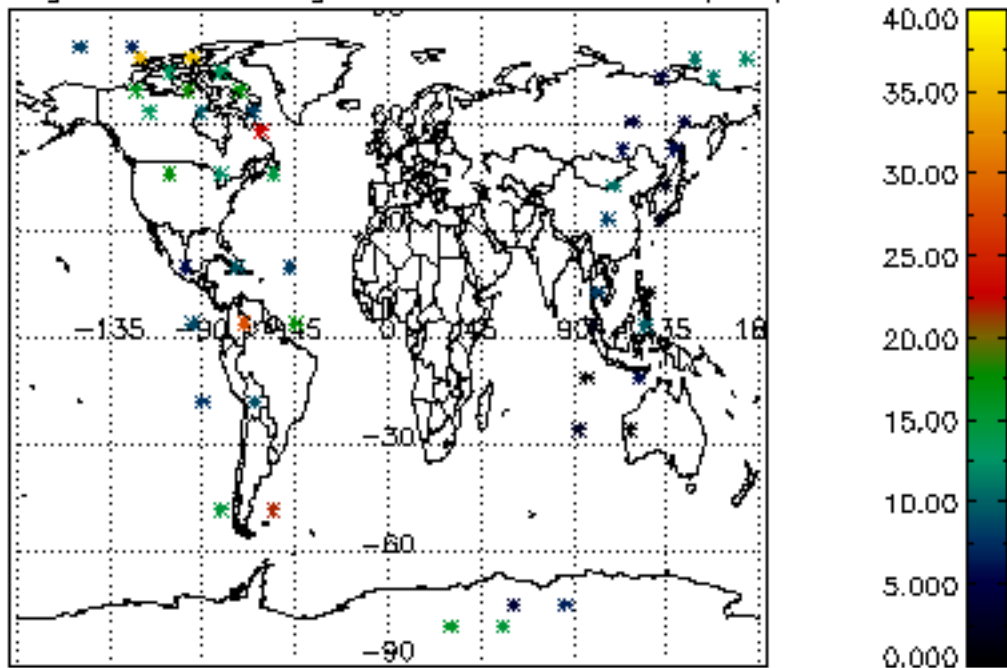
Percentage of cosmic ray hits per profile



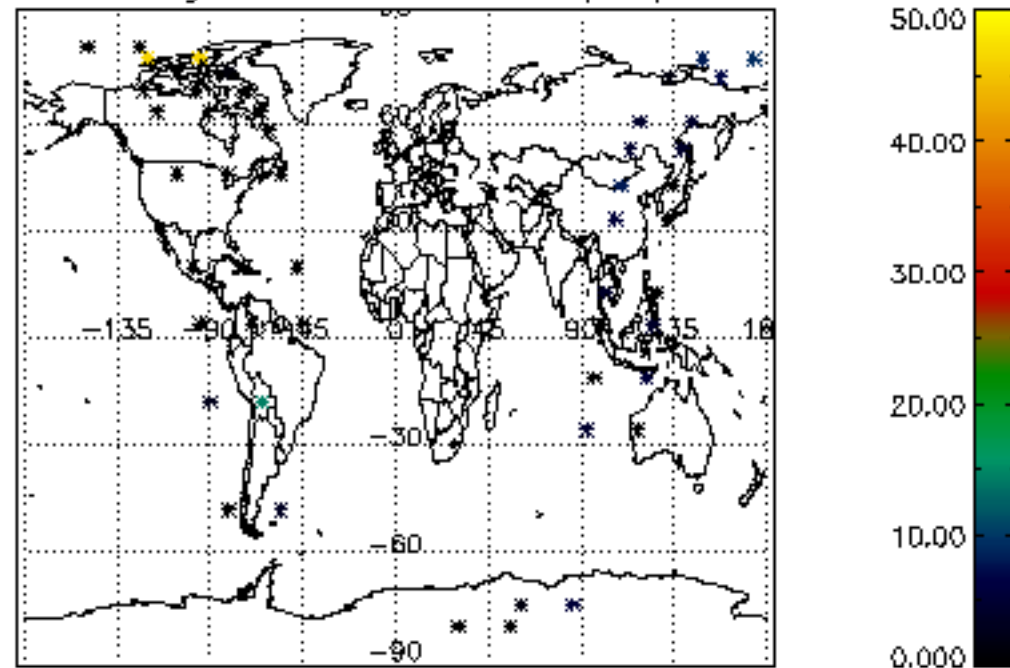
Percentage of datation errors per profile



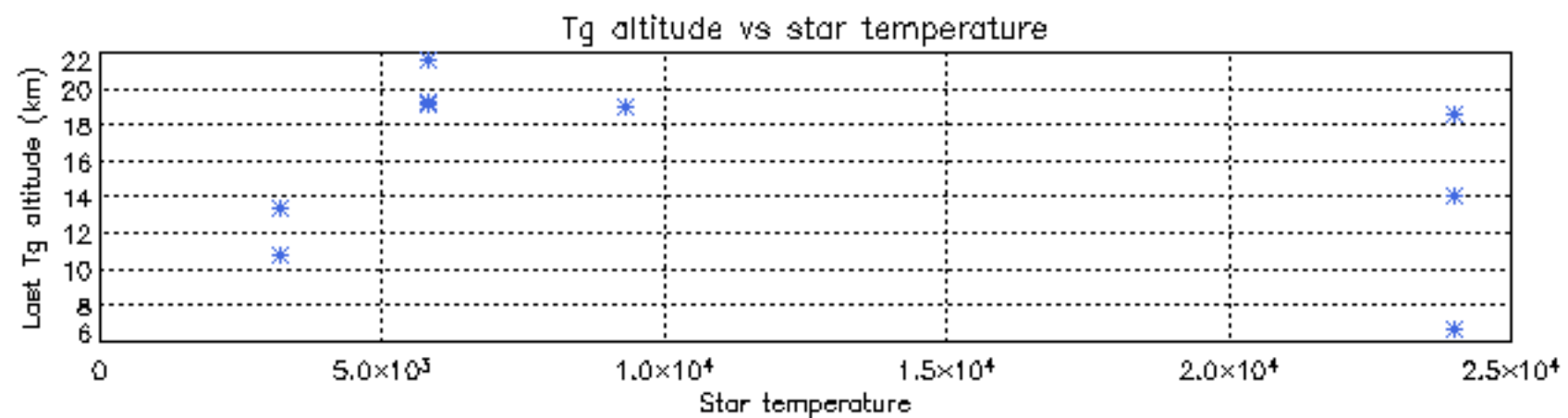
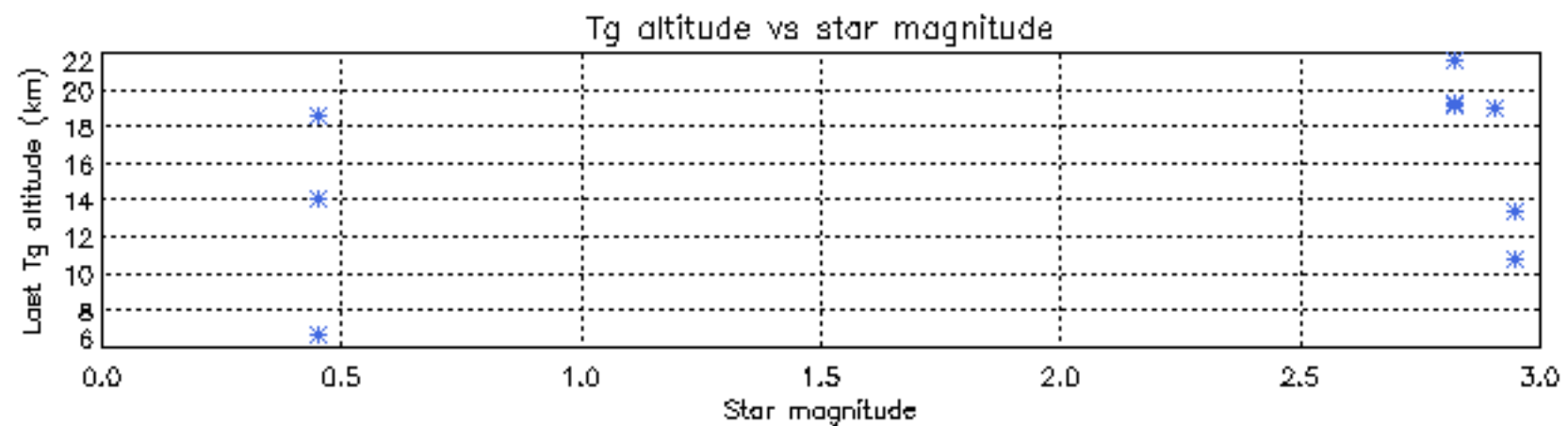
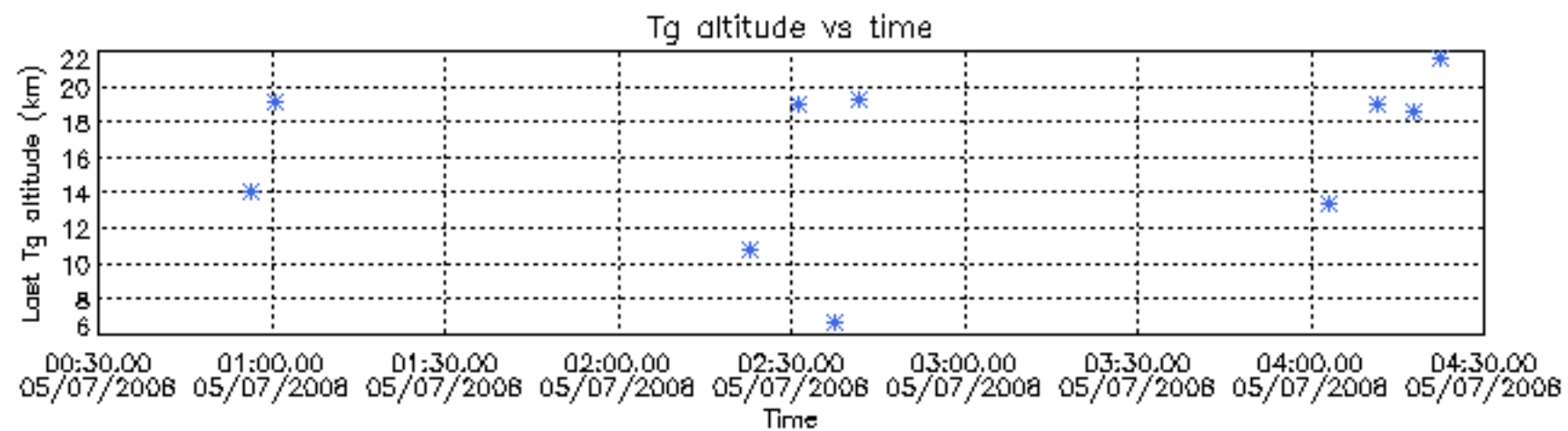
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

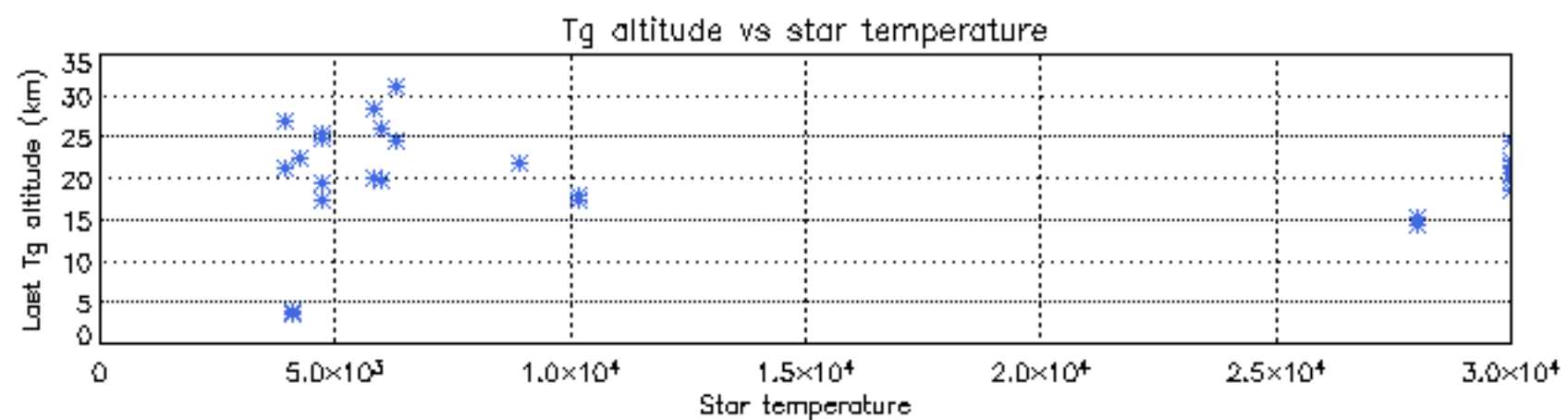
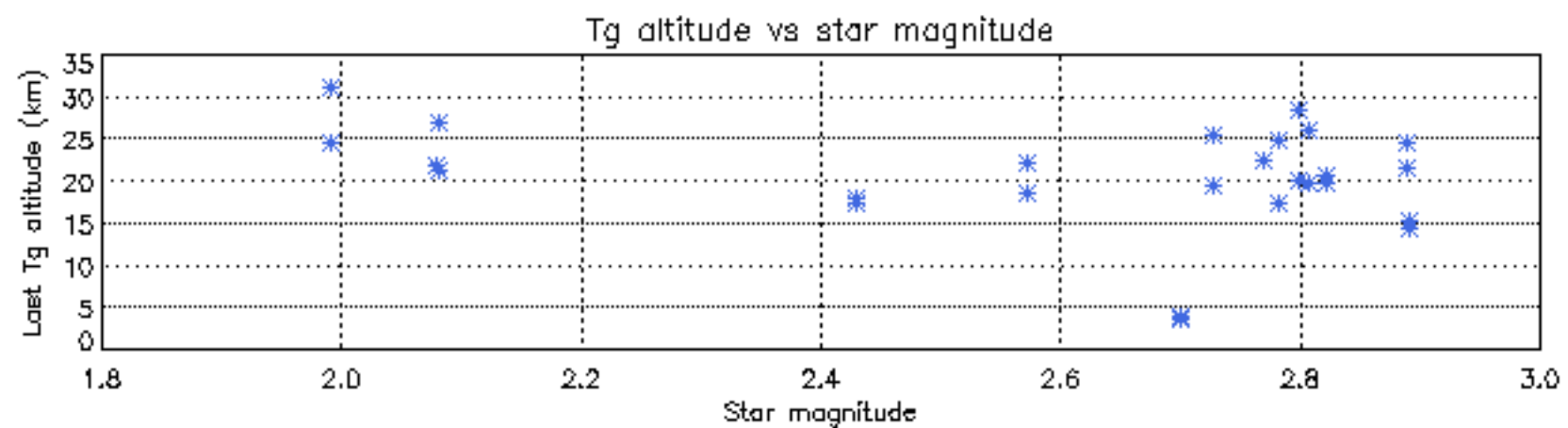
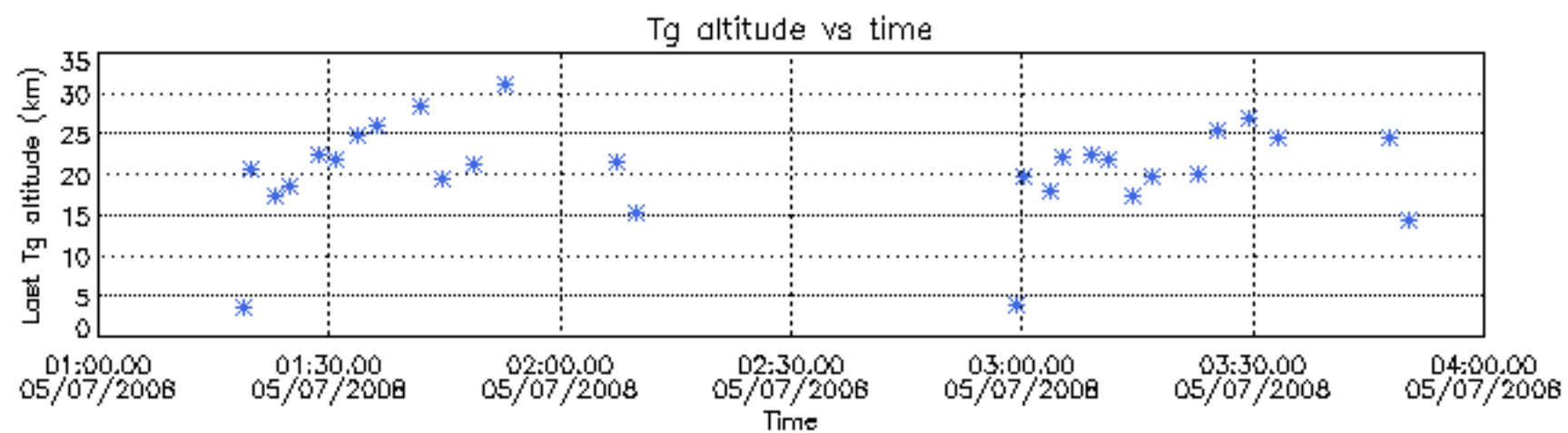


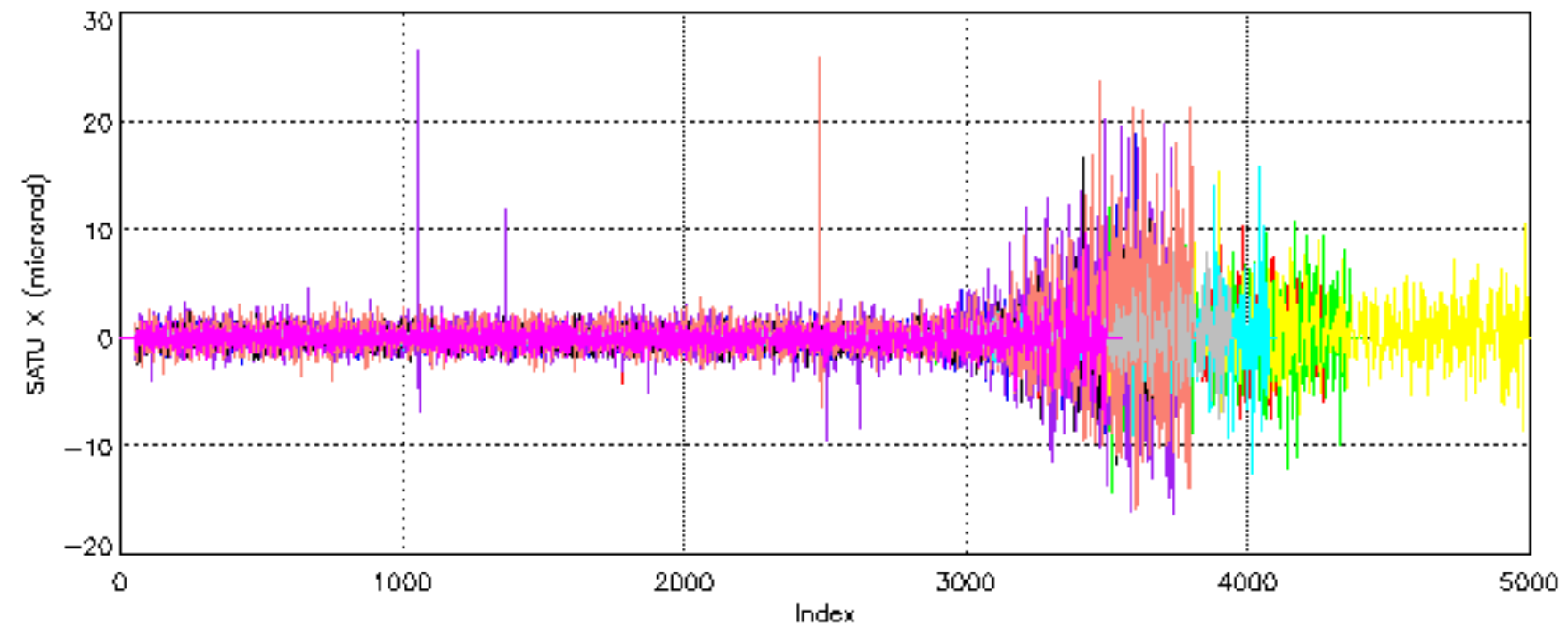
Tangent altitude at which the star is lost

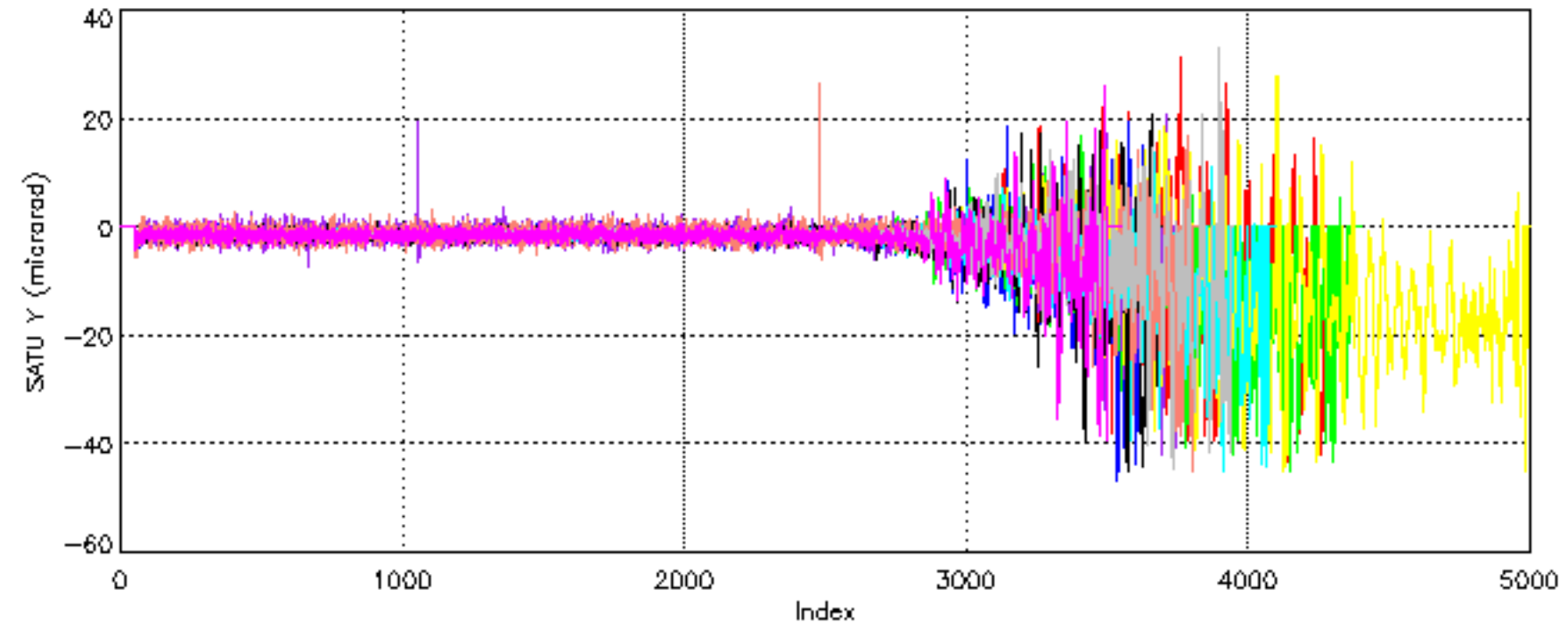




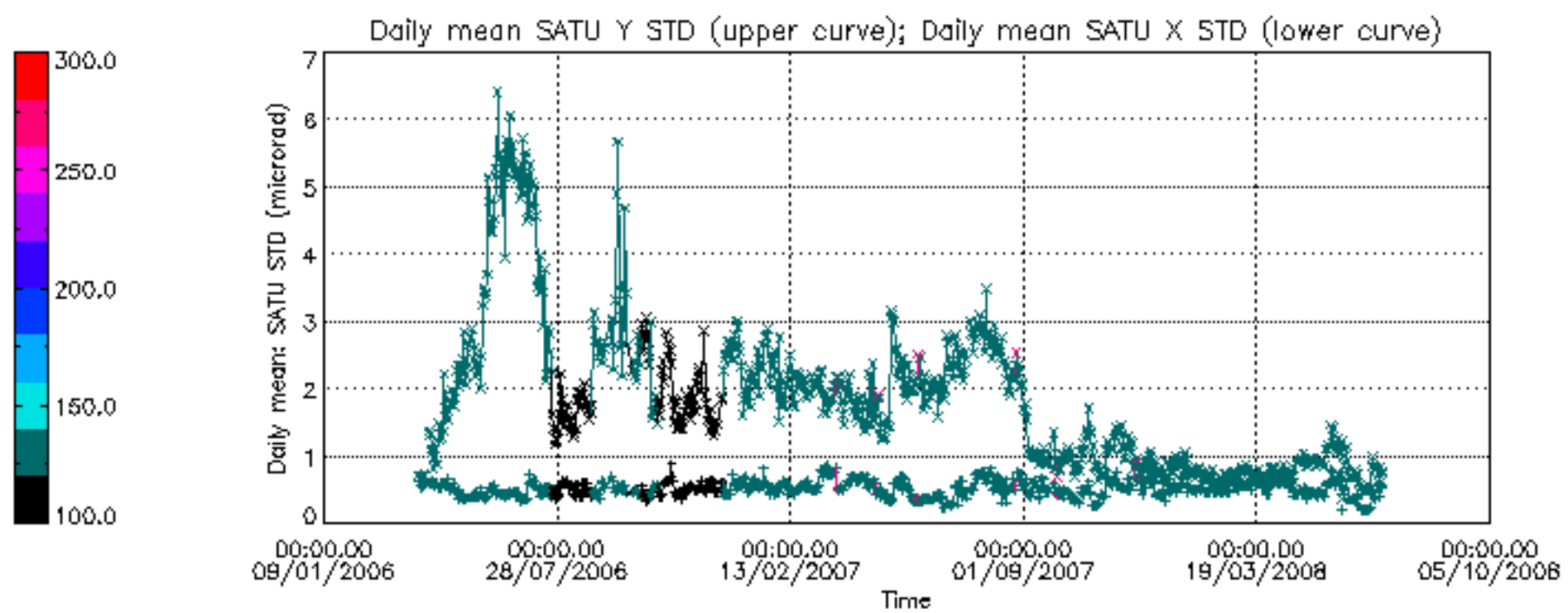
Tangent altitude at which the star is lost











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17; 5710.1; 01-JUL-2008 11:18:52; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33128
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19; 6354.8; 01-JUL-2008 11:29:37; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;33128
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22; 7101.3; 01-JUL-2008 11:42:04; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33128
23; 7209.6; 01-JUL-2008 11:43:52; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33128
24; 7309.5; 01-JUL-2008 11:45:32; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33128
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16; 5542.6; 01-JUL-2008 12:56:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33129
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23; 7209.8; 01-JUL-2008 13:24:28; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33129
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16; 5204.8; 01-JUL-2008 14:31:39; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33130
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22; 6788.0; 01-JUL-2008 14:58:02; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33130
23; 7101.7; 01-JUL-2008 15:03:16; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33130
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5; 3193.6; 01-JUL-2008 15:38:44; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;33131
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7; 4062.4; 01-JUL-2008 15:53:12; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;33131
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11; 4983.7; 01-JUL-2008 16:08:34; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;33131
12; 5205.2; 01-JUL-2008 16:12:15; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33131
13; 5543.1; 01-JUL-2008 16:17:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33131
14; 5711.1; 01-JUL-2008 16:20:41; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;33131
15; 6079.3; 01-JUL-2008 16:26:49; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;33131
16; 6355.4; 01-JUL-2008 16:31:25; Dark ; 35.5; 135; Bet Hyi ; 2.82; 5800;occ; 71; 0;33131
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18; 6788.6; 01-JUL-2008 16:38:39; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33131
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13; 4062.3; 01-JUL-2008 17:33:48; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;33132

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080701\_182458\_000057332070\_00013\_33133\_1390.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080701\_133219\_000057952070\_00010\_33130\_1392.N1

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 20; 6355.0; 01-JUL-2008 14:50:49; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33130  
 21; 6527.5; 01-JUL-2008 14:53:42; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;33130  
 22; 6788.0; 01-JUL-2008 14:58:02; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33130  
 23; 7101.7; 01-JUL-2008 15:03:16; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33130  
 24; 7210.1; 01-JUL-2008 15:05:04; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;33130  
 25; 7309.9; 01-JUL-2008 15:06:44; Dark ; 37.0; 25; 35Lam Sco ; 1.62; 28000;occ; 74; 0;33130  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080701\_150845\_000058532070\_00011\_33131\_1393.N1

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5; 2121.7; 01-JUL-2008 15:20:52; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33131
6; 2285.9; 01-JUL-2008 15:23:36; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33131
7; 2449.3; 01-JUL-2008 15:26:19; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33131
8; 2807.3; 01-JUL-2008 15:32:17; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33131
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12; 4062.4; 01-JUL-2008 15:53:12; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;33131
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15; 4581.7; 01-JUL-2008 16:01:52; Dark ; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;33131
16; 4983.7; 01-JUL-2008 16:08:34; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;33131
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18; 5543.1; 01-JUL-2008 16:17:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33131
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23; 6788.6; 01-JUL-2008 16:38:39; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33131
24; 7101.9; 01-JUL-2008 16:43:52; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33131
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6; 1066.7; 02-JUL-2008 01:06:52; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33137
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8; 1275.2; 02-JUL-2008 01:10:21; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33137
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12; 2121.4; 02-JUL-2008 01:24:27; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33137
13; 2286.9; 02-JUL-2008 01:27:13; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33137
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16; 2953.4; 02-JUL-2008 01:38:19; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33137
17; 3194.5; 02-JUL-2008 01:42:20; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33137
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11; 1360.6; 02-JUL-2008 02:52:22; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33138
12; 1646.1; 02-JUL-2008 02:57:08; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33138
13; 1982.1; 02-JUL-2008 03:02:44; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;33138
14; 2121.4; 02-JUL-2008 03:05:03; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;33138
15; 2287.0; 02-JUL-2008 03:07:49; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33138
16; 2449.8; 02-JUL-2008 03:10:31; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33138
17; 2806.2; 02-JUL-2008 03:16:28; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;33138
18; 2953.4; 02-JUL-2008 03:18:55; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;33138
19; 3194.6; 02-JUL-2008 03:22:56; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;33138

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4;-1049.2; 02-JUL-2008 03:52:48; Dark ; 55.5; 94; 92Alp Cet ; 2.53; 3100;occ; 111; 0;33138
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6; -491.4; 02-JUL-2008 04:02:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33138
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9; 321.0; 02-JUL-2008 04:15:38; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;33139
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12; 1067.2; 02-JUL-2008 04:28:05; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;33139
13; 1175.7; 02-JUL-2008 04:29:53; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33139
14; 1275.5; 02-JUL-2008 04:31:33; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;33139
15; 1360.8; 02-JUL-2008 04:32:58; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;33139
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6; -828.7; 02-JUL-2008 05:37:05; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;33139
7; -491.1; 02-JUL-2008 05:42:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33139
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12; 756.4; 02-JUL-2008 06:03:30; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33140
13; 1067.4; 02-JUL-2008 06:08:41; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33140
14; 1176.0; 02-JUL-2008 06:10:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33140
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24; 3194.9; 02-JUL-2008 06:44:08; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33140
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16; 4166.9; 02-JUL-2008 22:05:44; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;33149
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5; 502.9; 02-JUL-2008 22:45:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33150
6; 761.2; 02-JUL-2008 22:49:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33150
7; 1069.1; 02-JUL-2008 22:54:42; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33150
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17; 2954.1; 03-JUL-2008 01:06:43; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33151

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12; 1178.8; 03-JUL-2008 05:38:56; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;33154
13; 1278.4; 03-JUL-2008 05:40:35; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33154
14; 1364.2; 03-JUL-2008 05:42:01; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33154

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14; 4059.9; 03-JUL-2008 21:32:20; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;33163
15; 4167.4; 03-JUL-2008 21:34:08; Bright; 34.5; 175; 39Del Per ; 3.01; 19400;occ; 69; 0;33163
16; 4302.2; 03-JUL-2008 21:36:23; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;33163
17; 4446.6; 03-JUL-2008 21:38:47; Bright; 35.5; 150; 44Zet Per ; 2.89; 28000;occ; 71; 0;33163
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12; 5212.0; 03-JUL-2008 08:26:45; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;33155
13; 5548.5; 03-JUL-2008 08:32:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33155
14; 5722.1; 03-JUL-2008 08:35:15; Dark ; 36.5; 157; The1Eri ; 2.91; 9300;occ; 73; 0;33155
15; 6091.5; 03-JUL-2008 08:41:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33155
16; 6360.8; 03-JUL-2008 08:45:54; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33155
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19; 7106.2; 03-JUL-2008 08:58:19; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33155
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23; 7472.1; 03-JUL-2008 09:04:25; Bright; 54.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 108; 0;33155
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080703\_140946\_000057032070\_00039\_33159\_1408.N1

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 13; 1982.2; 03-JUL-2008 22:38:18; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33164  
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 16; 2452.4; 03-JUL-2008 22:46:09; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33164  
 17; 2802.7; 03-JUL-2008 22:51:59; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;33164  
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 21; 4059.9; 03-JUL-2008 23:12:56; Bright; 57.0; 160; 23Gam Per ; 2.93; 4700;occ; 114; 0;33164  
 22; 4167.5; 03-JUL-2008 23:14:44; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;33164  
 23; 4302.3; 03-JUL-2008 23:16:59; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;33164  
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19; 4059.8; 04-JUL-2008 00:53:32; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;33165  
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22; 4446.9; 04-JUL-2008 00:59:59; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;33165  
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6; 2290.8; 03-JUL-2008 16:01:03; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33160  
7; 2452.1; 03-JUL-2008 16:03:44; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33160  
8; 2803.4; 03-JUL-2008 16:09:36; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33160  
9; 2954.9; 03-JUL-2008 16:12:07; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33160  
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13; 4167.5; 03-JUL-2008 16:32:20; Bright; 34.5; 175; 39Del Per ; 3.01; 19400;occ; 69; 0;33160  
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22; 6802.5; 03-JUL-2008 17:16:15; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33160  
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7; 2121.0; 03-JUL-2008 17:38:49; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33161  
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13; 1072.5; 04-JUL-2008 05:05:32; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33168
14; 1181.5; 04-JUL-2008 05:07:21; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;33168
15; 1281.1; 04-JUL-2008 05:09:01; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33168
16; 1367.3; 04-JUL-2008 05:10:27; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33168

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17; 1650.9; 04-JUL-2008 05:15:11; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33168
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19; 2121.1; 04-JUL-2008 05:23:01; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;33168
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21; 2452.9; 04-JUL-2008 05:28:33; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;33168
22; 2802.4; 04-JUL-2008 05:34:22; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33168
23; 2955.3; 04-JUL-2008 05:36:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33168
24; 3199.3; 04-JUL-2008 05:40:59; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33168
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 4; 1652.4; 04-JUL-2008 20:20:36; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33177
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10; 2956.0; 04-JUL-2008 20:42:19; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33177
11; 3200.7; 04-JUL-2008 20:46:24; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33177
12; 3445.1; 04-JUL-2008 20:50:29; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33177
13; 4059.1; 04-JUL-2008 21:00:43; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33177
14; 4168.0; 04-JUL-2008 21:02:31; Bright; 51.0; 175; 39Del Per ; 3.01; 19400;occ; 102; 0;33177
15; 4303.5; 04-JUL-2008 21:04:47; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;33177
16; 4448.7; 04-JUL-2008 21:07:12; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;33177
17; 4590.6; 04-JUL-2008 21:09:34; Dark ; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;33177
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 9; 62.4; 04-JUL-2008 06:29:18; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33169
10; 327.9; 04-JUL-2008 06:33:44; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33169
11; 514.2; 04-JUL-2008 06:36:50; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33169
12; 770.1; 04-JUL-2008 06:41:06; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33169
13; 1072.5; 04-JUL-2008 06:46:08; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33169
14; 1181.5; 04-JUL-2008 06:47:57; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33169
15; 1281.3; 04-JUL-2008 06:49:37; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33169
16; 1367.6; 04-JUL-2008 06:51:04; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;33169
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 6; 2955.4; 04-JUL-2008 07:17:31; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33169
 7; 3199.4; 04-JUL-2008 07:21:35; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33169
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 9; 4059.6; 04-JUL-2008 07:35:56; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;33169
10; 4167.8; 04-JUL-2008 07:37:44; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33169
11; 4302.7; 04-JUL-2008 07:39:59; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;33169
12; 4447.5; 04-JUL-2008 07:42:23; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;33169
13; 4588.9; 04-JUL-2008 07:44:45; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33169
14; 5216.4; 04-JUL-2008 07:55:12; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33169
15; 5551.9; 04-JUL-2008 08:00:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33169
16; 5728.8; 04-JUL-2008 08:03:45; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;33169
17; 6098.8; 04-JUL-2008 08:09:55; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;33169
18; 6364.1; 04-JUL-2008 08:14:20; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33169
19; 6550.7; 04-JUL-2008 08:17:27; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;33169
20; 6806.5; 04-JUL-2008 08:21:42; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;33169
21; 7108.8; 04-JUL-2008 08:26:45; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;33169

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22; 7217.7; 04-JUL-2008 08:28:34; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33169
23; 7317.4; 04-JUL-2008 08:30:13; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33169
24; 7403.7; 04-JUL-2008 08:31:40; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;33169
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 7; 3199.6; 04-JUL-2008 09:02:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33170
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12; 4447.7; 04-JUL-2008 09:23:00; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;33170
13; 4589.1; 04-JUL-2008 09:25:21; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;33170
14; 5216.7; 04-JUL-2008 09:35:49; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33170
15; 5552.1; 04-JUL-2008 09:41:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33170
16; 5729.3; 04-JUL-2008 09:44:21; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;33170
17; 6099.3; 04-JUL-2008 09:50:31; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;33170
18; 6364.4; 04-JUL-2008 09:54:56; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33170
19; 6551.2; 04-JUL-2008 09:58:03; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33170
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21; 7108.7; 04-JUL-2008 10:07:21; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;33170
22; 7217.8; 04-JUL-2008 10:09:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33170
23; 7317.5; 04-JUL-2008 10:10:49; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33170
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22; 7317.6; 04-JUL-2008 11:51:25; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33171
23; 7404.0; 04-JUL-2008 11:52:52; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;33171
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11; 4167.8; 04-JUL-2008 12:39:31; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33172
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```

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16; 5552.6; 04-JUL-2008 13:02:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33172
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4; 2293.3; 04-JUL-2008 13:48:53; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33173
5; 2453.5; 04-JUL-2008 13:51:33; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;33173
6; 2801.9; 04-JUL-2008 13:57:21; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33173
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12; 4303.2; 04-JUL-2008 14:22:23; Bright; 45.0; 149; 45Eps Per ; 2.89; 30000;occ; 90; 0;33173
13; 4448.2; 04-JUL-2008 14:24:48; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;33173
14; 4589.8; 04-JUL-2008 14:27:09; Dark ; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;33173
15; 5217.8; 04-JUL-2008 14:37:37; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33173
16; 5552.9; 04-JUL-2008 14:43:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33173
17; 5730.8; 04-JUL-2008 14:46:10; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;33173
18; 6100.9; 04-JUL-2008 14:52:20; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;33173
19; 6365.0; 04-JUL-2008 14:56:45; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33173
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21; 6808.4; 04-JUL-2008 15:04:08; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33173
22; 7218.4; 04-JUL-2008 15:10:58; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;33173
23; 7318.2; 04-JUL-2008 15:12:38; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33173
24; 7404.6; 04-JUL-2008 15:14:04; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33173
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2; 1652.0; 04-JUL-2008 15:18:47; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33174
3; 1982.6; 04-JUL-2008 15:24:18; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;33174
4; 2121.0; 04-JUL-2008 15:26:37; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33174
5; 2293.4; 04-JUL-2008 15:29:29; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33174
6; 2453.7; 04-JUL-2008 15:32:09; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33174
7; 2801.8; 04-JUL-2008 15:37:57; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;33174
8; 2955.8; 04-JUL-2008 15:40:31; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33174
9; 3200.3; 04-JUL-2008 15:44:36; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;33174
10; 3445.3; 04-JUL-2008 15:48:41; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;33174
11; 4059.4; 04-JUL-2008 15:58:55; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;33174
12; 4167.9; 04-JUL-2008 16:00:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;33174
13; 4303.4; 04-JUL-2008 16:02:59; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;33174
14; 4448.5; 04-JUL-2008 16:05:24; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;33174
15; 4589.9; 04-JUL-2008 16:07:45; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33174
16; 5218.3; 04-JUL-2008 16:18:14; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33174
17; 5553.2; 04-JUL-2008 16:23:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33174
18; 5731.4; 04-JUL-2008 16:26:47; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33174
19; 6101.6; 04-JUL-2008 16:32:57; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;33174
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21; 6553.8; 04-JUL-2008 16:40:29; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;33174
22; 6809.0; 04-JUL-2008 16:44:44; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33174
23; 7218.7; 04-JUL-2008 16:51:34; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;33174
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2; 1368.8; 04-JUL-2008 16:54:40; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;33175
3; 1652.1; 04-JUL-2008 16:59:24; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33175
4; 1982.6; 04-JUL-2008 17:04:54; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33175
5; 2121.0; 04-JUL-2008 17:07:12; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33175

```

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7; 2453.8; 04-JUL-2008 17:12:45; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;33175  
8; 2801.7; 04-JUL-2008 17:18:33; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33175  
9; 2955.9; 04-JUL-2008 17:21:07; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33175  
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12; 4059.3; 04-JUL-2008 17:39:31; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;33175  
13; 4168.2; 04-JUL-2008 17:41:20; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33175  
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22; 6554.3; 04-JUL-2008 18:21:06; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33175  
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6; 2121.0; 04-JUL-2008 18:47:49; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;33176  
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9; 2801.6; 04-JUL-2008 18:59:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33176  
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16; 4448.7; 04-JUL-2008 19:26:36; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;33176  
17; 4590.4; 04-JUL-2008 19:28:58; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33176  
18; 5218.9; 04-JUL-2008 19:39:26; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33176  
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22; 6365.8; 04-JUL-2008 19:58:33; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33176  
23; 6554.9; 04-JUL-2008 20:01:42; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;33176  
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4; 67.1; 04-JUL-2008 21:34:46; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33178  
5; 330.1; 04-JUL-2008 21:39:09; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33178  
6; 519.5; 04-JUL-2008 21:42:19; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33178  
7; 774.3; 04-JUL-2008 21:46:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33178  
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14; 2294.3; 04-JUL-2008 22:11:54; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33178  
15; 2454.3; 04-JUL-2008 22:14:34; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33178  
16; 2801.4; 04-JUL-2008 22:20:21; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;33178  
17; 2956.1; 04-JUL-2008 22:22:55; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33178  
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19; 3445.2; 04-JUL-2008 22:31:05; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33178  
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21; 4168.0; 04-JUL-2008 22:43:07; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;33178  
22; 4303.6; 04-JUL-2008 22:45:23; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;33178  
23; 4448.9; 04-JUL-2008 22:47:48; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;33178  
24; 4590.6; 04-JUL-2008 22:50:10; Dark ; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;33178



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2; -1586.5; 05-JUL-2008 07:10:48; Dark ; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;33183
3; -814.9; 05-JUL-2008 07:23:40; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33183
4; -480.4; 05-JUL-2008 07:29:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33183
5; -300.3; 05-JUL-2008 07:32:15; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33183
6; 70.4; 05-JUL-2008 07:38:25; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;33184
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9; 985.9; 05-JUL-2008 07:53:41; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;33184
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9; 3445.0; 05-JUL-2008 10:15:16; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33185
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11; 5221.7; 05-JUL-2008 10:44:53; Dark ; 41.5; 165; 34Gam Eri ; 2.95; 3200;occ; 83; 0;33185
12; 5556.0; 05-JUL-2008 10:50:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33185
13; 5736.6; 05-JUL-2008 10:53:27; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;33185
14; 6107.2; 05-JUL-2008 10:59:38; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33185
15; 6367.8; 05-JUL-2008 11:03:59; Dark ; 35.0; 135; Bet Hyi ; 2.82; 5800;occ; 70; 0;33185
16; 6813.8; 05-JUL-2008 11:11:25; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33185
17; 7022.0; 05-JUL-2008 11:14:53; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;33185
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2; 1761.3; 05-JUL-2008 11:27:48; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33186
3; 1982.8; 05-JUL-2008 11:31:29; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33186
4; 2121.1; 05-JUL-2008 11:33:48; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33186
5; 2295.7; 05-JUL-2008 11:36:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33186

```



6; 2455.3; 05-JUL-2008 11:39:22; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33186  
7; 2800.5; 05-JUL-2008 11:45:07; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33186  
8; 2956.7; 05-JUL-2008 11:47:43; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33186  
9; 3202.1; 05-JUL-2008 11:51:49; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33186  
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12; 5222.0; 05-JUL-2008 12:25:29; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;33186  
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16; 6367.9; 05-JUL-2008 12:44:35; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33186  
17; 6814.2; 05-JUL-2008 12:52:01; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33186  
18; 7022.2; 05-JUL-2008 12:55:29; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;33186  
19; 7111.3; 05-JUL-2008 12:56:58; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33186  
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22; 7407.2; 05-JUL-2008 13:01:54; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33186  
23; 7503.1; 05-JUL-2008 13:03:30; Bright; 36.5; 136; 23Tau Sco ; 2.82; 30000;occ; 73; 0;33186

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080705\_130637\_000058612070\_00067\_33187\_1425.N1

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4; 2121.1; 05-JUL-2008 13:14:24; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;33187  
5; 2295.9; 05-JUL-2008 13:17:19; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33187  
6; 2455.5; 05-JUL-2008 13:19:58; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33187  
7; 2800.5; 05-JUL-2008 13:25:43; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33187  
8; 2956.8; 05-JUL-2008 13:28:19; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33187  
9; 3202.3; 05-JUL-2008 13:32:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33187  
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11; 4304.4; 05-JUL-2008 13:50:47; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;33187  
12; 5222.5; 05-JUL-2008 14:06:05; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33187  
13; 5556.6; 05-JUL-2008 14:11:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33187  
14; 5737.7; 05-JUL-2008 14:14:40; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;33187  
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16; 6368.3; 05-JUL-2008 14:25:11; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33187  
17; 6814.7; 05-JUL-2008 14:32:37; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33187  
18; 7111.6; 05-JUL-2008 14:37:34; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33187  
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21; 7407.5; 05-JUL-2008 14:42:30; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33187  
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3; 1761.7; 05-JUL-2008 14:49:00; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33188  
4; 1982.9; 05-JUL-2008 14:52:41; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33188  
5; 2121.1; 05-JUL-2008 14:55:00; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33188  
6; 2296.3; 05-JUL-2008 14:57:55; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33188  
7; 2455.5; 05-JUL-2008 15:00:34; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33188  
8; 2800.4; 05-JUL-2008 15:06:19; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;33188  
9; 2956.9; 05-JUL-2008 15:08:55; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33188  
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11; 3445.1; 05-JUL-2008 15:17:04; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33188  
12; 4304.6; 05-JUL-2008 15:31:23; Bright; 54.0; 149; 45Eps Per ; 2.89; 30000;occ; 108; 0;33188  
13; 5222.9; 05-JUL-2008 15:46:41; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33188  
14; 5556.9; 05-JUL-2008 15:52:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33188  
15; 5738.2; 05-JUL-2008 15:55:17; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;33188  
16; 6109.1; 05-JUL-2008 16:01:28; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33188  
17; 6368.6; 05-JUL-2008 16:05:47; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33188  
18; 6815.2; 05-JUL-2008 16:13:14; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33188  
19; 7022.6; 05-JUL-2008 16:16:41; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;33188  
20; 7111.9; 05-JUL-2008 16:18:10; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;33188  
21; 7221.2; 05-JUL-2008 16:20:00; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33188  
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2; 1371.9; 05-JUL-2008 16:23:06; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33189  
3; 1467.6; 05-JUL-2008 16:24:42; Bright; 36.0; 136; 23Tau Sco ; 2.82; 30000;occ; 72; 0;33189

4; 1654.4; 05-JUL-2008 16:27:49; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33189  
5; 1761.9; 05-JUL-2008 16:29:36; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;33189  
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7; 2121.1; 05-JUL-2008 16:35:36; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33189  
8; 2296.4; 05-JUL-2008 16:38:31; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33189  
9; 2455.7; 05-JUL-2008 16:41:10; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33189  
10; 2800.4; 05-JUL-2008 16:46:55; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33189  
11; 2957.0; 05-JUL-2008 16:49:32; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;33189  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080705\_175847\_000059832070\_00070\_33190\_1428.N1

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3; 1285.1; 05-JUL-2008 18:02:16; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;33190  
4; 1372.1; 05-JUL-2008 18:03:43; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33190  
5; 1654.5; 05-JUL-2008 18:08:25; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33190  
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11; 2800.2; 05-JUL-2008 18:27:31; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;33190  
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13; 3202.8; 05-JUL-2008 18:34:13; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33190  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080705\_005559\_000044212070\_00060\_33180\_5917.N1

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3; 775.2; 05-JUL-2008 01:07:46; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33180  
4; 985.3; 05-JUL-2008 01:11:16; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;33180  
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17; 2956.3; 05-JUL-2008 01:44:07; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33180  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080705\_022151\_000042942070\_00060\_33180\_6061.N1

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3; -301.3; 05-JUL-2008 02:30:26; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;33180  
4; 68.7; 05-JUL-2008 02:36:36; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;33181

5; 330.8; 05-JUL-2008 02:40:58; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33181  
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9; 1283.5; 05-JUL-2008 02:56:51; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33181  
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3; -815.5; 05-JUL-2008 04:02:27; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33181  
4; -480.9; 05-JUL-2008 04:08:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33181  
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6; 69.3; 05-JUL-2008 04:17:12; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;33182  
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9; 1074.8; 05-JUL-2008 04:33:58; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33182  
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7; 331.2; 05-JUL-2008 06:02:10; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33183  
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9; 985.8; 05-JUL-2008 06:13:05; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;33183  
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19; 2295.2; 05-JUL-2008 06:34:54; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33183  
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21; 2800.9; 05-JUL-2008 06:43:20; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33183  
22; 2956.5; 05-JUL-2008 06:45:55; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;33183  
23; 3201.7; 05-JUL-2008 06:50:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33183  
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4; 1285.3; 05-JUL-2008 19:42:52; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33191
5; 1372.2; 05-JUL-2008 19:44:19; Dark ; 43.0; 116; 19Del Sgr ; 2.70; 4100;occ; 86; 0;33191
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11; 2296.8; 05-JUL-2008 19:59:43; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33191
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13; 2800.1; 05-JUL-2008 20:08:07; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33191
14; 2957.2; 05-JUL-2008 20:10:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33191
15; 3202.9; 05-JUL-2008 20:14:49; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33191
16; 3445.0; 05-JUL-2008 20:18:52; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33191
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4; 74.5; 05-JUL-2008 21:03:17; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;33192
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6; 780.5; 05-JUL-2008 21:15:03; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33192
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12; 1467.9; 05-JUL-2008 21:26:30; Bright; 35.0; 136; 23Tau Sco ; 2.82; 30000;occ; 70; 0;33192
13; 1654.8; 05-JUL-2008 21:29:37; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;33192
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16; 2121.0; 05-JUL-2008 21:37:23; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33192
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21; 3203.1; 05-JUL-2008 21:55:25; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;33192
22; 3445.0; 05-JUL-2008 21:59:27; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33192
23; 4304.7; 05-JUL-2008 22:13:47; Bright; 26.0; 149; 45Eps Per ; 2.89; 30000;occ; 52; 0;33192
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12; 1654.9; 05-JUL-2008 23:10:13; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33193
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15; 2121.1; 05-JUL-2008 23:17:59; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;33193
16; 2297.2; 05-JUL-2008 23:20:55; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33193
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3; -294.7; 06-JUL-2008 01:58:55; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;33194
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8; 1076.7; 06-JUL-2008 02:21:47; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;33195
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6; 341.4; 08-JUL-2008 06:08:05; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33226
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8; 1081.8; 08-JUL-2008 06:20:26; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;33226
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5; 2461.9; 08-JUL-2008 08:24:02; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33227
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1; 1551.3; 29-JUL-2008 15:31:29; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33532  
 2; 2062.1; 29-JUL-2008 15:40:00; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33532  
 3; 2144.0; 29-JUL-2008 15:41:22; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;33532  
 4; 2568.4; 29-JUL-2008 15:48:26; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;33532  
 5; 2663.2; 29-JUL-2008 15:50:01; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33532  
 6; 2792.7; 29-JUL-2008 15:52:11; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;33532  
 7; 3104.6; 29-JUL-2008 15:57:23; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;33532  
 8; 3441.5; 29-JUL-2008 16:03:00; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33532  
 9; 4200.5; 29-JUL-2008 16:15:39; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33532  
 10; 4510.0; 29-JUL-2008 16:20:48; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33532  
 11; 4633.1; 29-JUL-2008 16:22:51; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33532  
 12; 4778.5; 29-JUL-2008 16:25:17; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33532  
 13; 4900.2; 29-JUL-2008 16:27:18; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;33532  
 14; 5015.1; 29-JUL-2008 16:29:13; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;33532  
 15; 5160.3; 29-JUL-2008 16:31:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;33532  
 16; 5293.3; 29-JUL-2008 16:33:51; Dark ; 39.5; 101; 11Alp Lep ; 2.58; 7000;occ; 79; 0;33532  
 17; 5713.7; 29-JUL-2008 16:40:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33532  
 18; 5984.3; 29-JUL-2008 16:45:22; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33532  
 19; 6322.9; 29-JUL-2008 16:51:01; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;33532  
 20; 6741.5; 29-JUL-2008 16:58:00; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33532  
 21; 6939.8; 29-JUL-2008 17:01:18; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33532  
 22; 7129.5; 29-JUL-2008 17:04:28; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33532

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

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

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



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22; 5294.4; 29-JUL-2008 23:16:16; Dark ; 21.5; 101; 11Alp Lep ; 2.58; 7000;occ; 43; 0;33536
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2; -319.6; 29-JUL-2008 23:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33536
3; -48.0; 29-JUL-2008 23:27:50; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33536
4; 289.6; 29-JUL-2008 23:33:27; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;33537
5; 707.1; 29-JUL-2008 23:40:25; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33537
6; 905.9; 29-JUL-2008 23:43:44; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;33537
7; 1095.5; 29-JUL-2008 23:46:53; Dark ; 45.0; 172; Gam Gru ; 3.00; 13100;occ; 90; 0;33537
8; 1552.2; 29-JUL-2008 23:54:30; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;33537
9; 2061.5; 30-JUL-2008 00:02:59; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33537
10; 2144.0; 30-JUL-2008 00:04:22; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33537
11; 2568.5; 30-JUL-2008 00:11:26; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;33537
12; 2660.9; 30-JUL-2008 00:12:59; Bright; 41.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 83; 0;33537
13; 3102.2; 30-JUL-2008 00:20:20; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33537
14; 3441.3; 30-JUL-2008 00:25:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33537
15; 4200.5; 30-JUL-2008 00:38:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;33537
16; 4510.6; 30-JUL-2008 00:43:48; Dark ; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;33537
17; 4634.1; 30-JUL-2008 00:45:52; Dark ; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;33537
18; 4780.2; 30-JUL-2008 00:48:18; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;33537
19; 4901.6; 30-JUL-2008 00:50:19; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;33537
20; 5016.5; 30-JUL-2008 00:52:14; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33537
21; 5162.1; 30-JUL-2008 00:54:40; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;33537
22; 5294.8; 30-JUL-2008 00:56:53; Dark ; 41.0; 101; 11Alp Lep ; 2.58; 7000;occ; 82; 0;33537
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1; -711.1; 30-JUL-2008 00:57:23; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 60;33537
2; -319.0; 30-JUL-2008 01:03:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33537
3; -47.2; 30-JUL-2008 01:08:26; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;33537
4; 290.3; 30-JUL-2008 01:14:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33538
5; 707.6; 30-JUL-2008 01:21:01; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;33538
6; 906.4; 30-JUL-2008 01:24:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;33538
7; 1095.8; 30-JUL-2008 01:27:29; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;33538
8; 1552.2; 30-JUL-2008 01:35:06; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;33538
9; 2061.5; 30-JUL-2008 01:43:35; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33538
10; 2144.0; 30-JUL-2008 01:44:58; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33538
11; 2568.6; 30-JUL-2008 01:52:02; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;33538
12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
14; 3441.4; 30-JUL-2008 02:06:35; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33538
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2; -1525.1; 30-JUL-2008 02:24:24; Dark ; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;33538
3; -1401.6; 30-JUL-2008 02:26:28; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33538
4; -1255.3; 30-JUL-2008 02:28:54; Dark ; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;33538
5; -1134.0; 30-JUL-2008 02:30:56; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;33538
6; -1019.0; 30-JUL-2008 02:32:51; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;33538
7; -873.2; 30-JUL-2008 02:35:16; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;33538
8; -318.3; 30-JUL-2008 02:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33538
9; -46.1; 30-JUL-2008 02:49:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;33538
10; 291.0; 30-JUL-2008 02:54:41; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33539
11; 708.1; 30-JUL-2008 03:01:38; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33539
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 13; 5019.5; 30-JUL-2008 15:57:40; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;33546  
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 19; 6747.6; 30-JUL-2008 16:26:29; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33546  
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 6; 3097.9; 30-JUL-2008 17:06:15; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;33547  
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14; 3095.2; 31-JUL-2008 03:09:48; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33553
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9; 4514.6; 31-JUL-2008 16:58:15; Dark ; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;33561
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12; 4639.4; 31-JUL-2008 18:40:55; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;33562
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