

GOMOS Daily Report 13-JAN-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	15JAN2008 14:23:14
Data source version	GOMOS/5.00
Start time of products	13-01-2008 (13JAN2008 00:00:00)
Stop time of products	14-01-2008 (14JAN2008 00:00:00)
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)

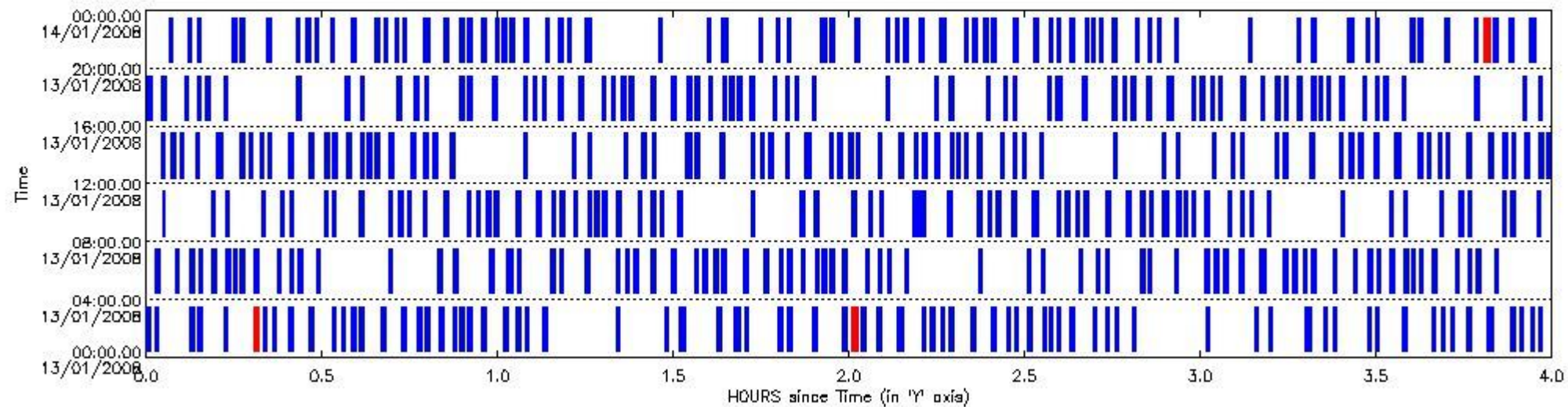
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

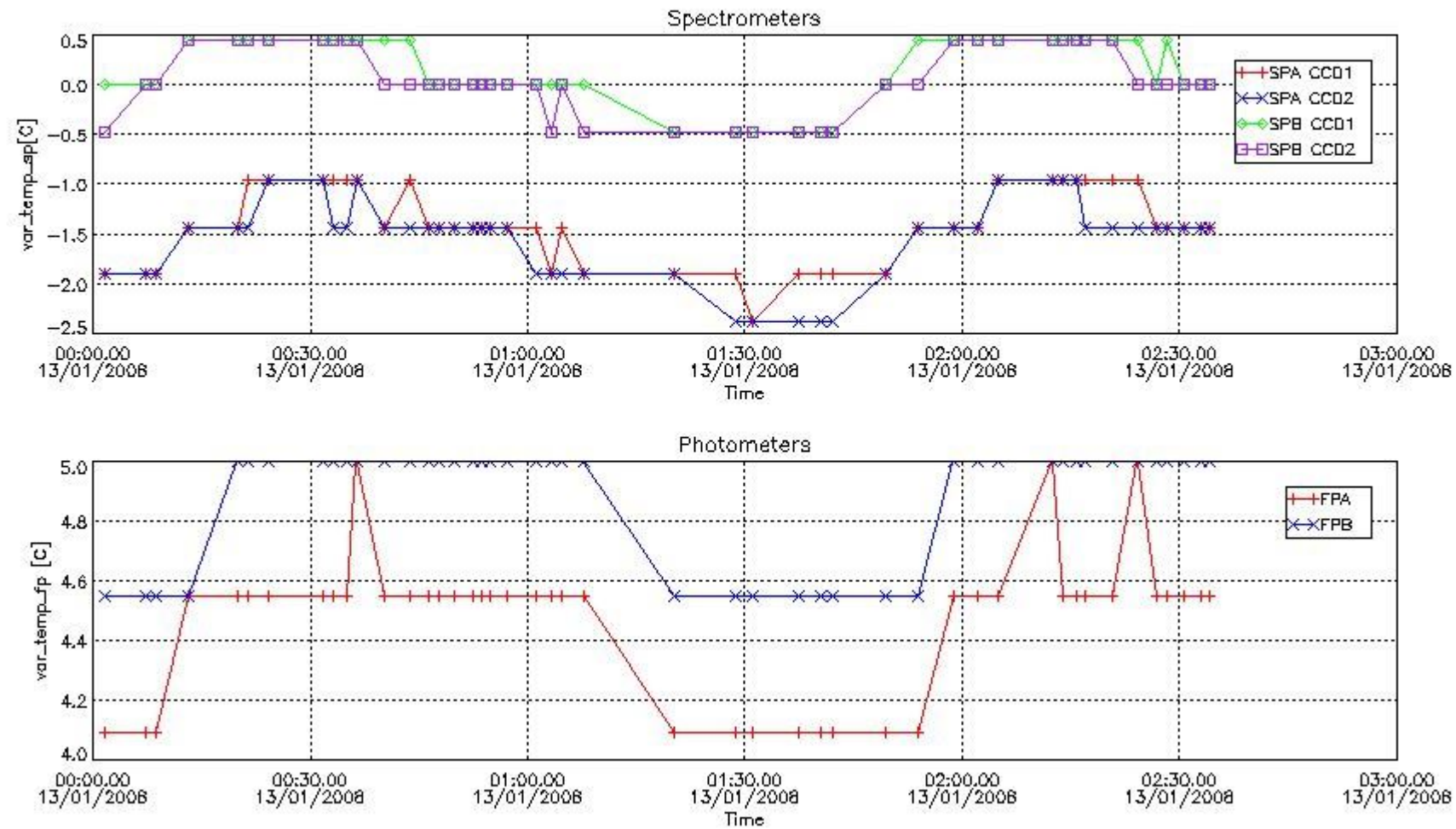
UTC start time	Star name	Star ID	Orbit
13-JAN-2008 00:18:17	GamLup	131	30688
13-JAN-2008 02:00:33	BetLup	109	30689
13-JAN-2008 23:48:28	BetLup	109	30702

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_1PNPDE20080113_000132_000000332065_00073_30688_4889.N1	13-JAN-2008 00:01:32	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30688	No
2	GOM_TRA_1PNPDE20080113_000718_000000552065_00073_30688_4890.N1	13-JAN-2008 00:07:18	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	30688	No
3	GOM_TRA_1PNPDE20080113_000843_000000532065_00073_30688_4891.N1	13-JAN-2008 00:08:43	Bright	53.000	98	13Zet Oph	2.5710	30000.	106	30688	No
4	GOM_TRA_1PNPDE20080113_001310_000000442065_00073_30688_5013.N1	13-JAN-2008 00:13:10	Twilight_stray	43.500	16	21Alp Sco	1.0200	3000.0	87	30688	No
5	GOM_TRA_1PNPDE20080113_001958_000000412065_00073_30688_5014.N1	13-JAN-2008 00:19:58	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30688	No
6	GOM_TRA_1PNPDE20080113_002129_000000422065_00073_30688_5015.N1	13-JAN-2008 00:21:29	Dark	41.500	78	Alp Lup	2.3040	28000.	83	30688	No
7	GOM_TRA_1PNPDE20080113_002412_000000482065_00074_30689_5016.N1	13-JAN-2008 00:24:12	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	30689	No
8	GOM_TRA_1PNPDE20080113_003148_000000382065_00074_30689_5017.N1	13-JAN-2008 00:31:48	Dark	38.000	124	The Car	2.7640	30000.	76	30689	No

9	GOM_TRA_1PNPDE20080113_003317_000000412065_00074_30689_5018.N1	13-JAN-2008 00:33:17	Dark	40.500	29	Bet Car	1.6720	10200.	81	30689	No
10	GOM_TRA_1PNPDE20080113_003507_000000412065_00074_30689_5019.N1	13-JAN-2008 00:35:07	Dark	41.000	71	lot Car	2.2460	7700.0	82	30689	No
11	GOM_TRA_1PNPDE20080113_003626_000000432065_00074_30689_5020.N1	13-JAN-2008 00:36:26	Dark	42.500	41	Eps Car	1.8600	4100.0	85	30689	No
12	GOM_TRA_1PNPDE20080113_004009_000000492065_00074_30689_5021.N1	13-JAN-2008 00:40:09	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	30689	No
13	GOM_TRA_1PNPDE20080113_004339_000000452065_00074_30689_5022.N1	13-JAN-2008 00:43:39	Straylight	44.500	117	Pi Pup	2.7060	3800.0	89	30689	No
14	GOM_TRA_1PNPDE20080113_004614_000000422065_00074_30689_5023.N1	13-JAN-2008 00:46:14	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30689	No
15	GOM_TRA_1PNPDE20080113_004741_000000422065_00074_30689_5024.N1	13-JAN-2008 00:47:41	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	30689	No
16	GOM_TRA_1PNPDE20080113_004956_000000472065_00074_30689_5025.N1	13-JAN-2008 00:49:56	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	30689	No
17	GOM_TRA_1PNPDE20080113_005224_000000402065_00074_30689_5026.N1	13-JAN-2008 00:52:24	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	30689	No
18	GOM_TRA_1PNPDE20080113_005334_000000392065_00074_30689_5027.N1	13-JAN-2008 00:53:34	Straylight	38.500	125	44lot Ori	2.7700	30000.	77	30689	No
19	GOM_TRA_1PNPDE20080113_005452_000000402065_00074_30689_5028.N1	13-JAN-2008 00:54:52	Twilight	40.000	30	46Eps Ori	1.6940	30000.	80	30689	No
20	GOM_TRA_1PNPDE20080113_005708_000000502065_00074_30689_5029.N1	13-JAN-2008 00:57:08	Twilight	49.500	14	58Alp Ori	0.87000	3000.0	99	30689	No
21	GOM_TRA_1PNPDE20080113_010104_000000352065_00074_30689_5030.N1	13-JAN-2008 01:01:04	Bright	34.500	176	23Zet Tau	3.0200	22000.	69	30689	No
22	GOM_TRA_1PNPDE20080113_010313_000000372065_00074_30689_5031.N1	13-JAN-2008 01:03:13	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30689	No
23	GOM_TRA_1PNPDE20080113_010444_000000382065_00074_30689_5032.N1	13-JAN-2008 01:04:44	Bright	38.000	114	3lot Aur	2.6930	4600.0	76	30689	No
24	GOM_TRA_1PNPDE20080113_010747_000000372065_00074_30689_5033.N1	13-JAN-2008 01:07:47	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30689	No
25	GOM_TRA_1PNPDE20080113_012018_000000362065_00074_30689_5034.N1	13-JAN-2008 01:20:18	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30689	No
26	GOM_TRA_1PNPDE20080113_012837_000000372065_00074_30689_5035.N1	13-JAN-2008 01:28:37	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30689	No
27	GOM_TRA_1PNPDE20080113_013106_000000522065_00074_30689_5036.N1	13-JAN-2008 01:31:06	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30689	No
28	GOM_TRA_1PNPDE20080113_013721_000000532065_00074_30689_5037.N1	13-JAN-2008 01:37:21	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	30689	No
29	GOM_TRA_1PNPDE20080113_014024_000000542065_00074_30689_5038.N1	13-JAN-2008 01:40:24	Bright	54.000	127	27Bet Her	2.7810	4700.0	108	30689	No
30	GOM_TRA_1PNPDE20080113_014208_000000332065_00074_30689_5039.N1	13-JAN-2008 01:42:08	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30689	No
31	GOM_TRA_1PNPDE20080113_014919_000000532065_00074_30689_5176.N1	13-JAN-2008 01:49:19	Bright	53.000	98	13Zet Oph	2.5710	30000.	106	30689	No
32	GOM_TRA_1PNPDE20080113_015346_000000462065_00074_30689_5177.N1	13-JAN-2008 01:53:46	Twilight	46.000	16	21Alp Sco	1.0200	3000.0	92	30689	No
33	GOM_TRA_1PNPDE20080113_015855_000000382065_00074_30689_5178.N1	13-JAN-2008 01:58:55	Dark	37.500	131	Gam Lup	2.8000	26000.	75	30689	No
34	GOM_TRA_1PNPDE20080113_020205_000000412065_00074_30689_5179.N1	13-JAN-2008 02:02:05	Dark	40.500	78	Alp Lup	2.3040	28000.	81	30689	No
35	GOM_TRA_1PNPDE20080113_020449_000000412065_00075_30690_5180.N1	13-JAN-2008 02:04:49	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	30690	No
36	GOM_TRA_1PNPDE20080113_021224_000000382065_00075_30690_5181.N1	13-JAN-2008 02:12:24	Dark	38.000	124	The Car	2.7640	30000.	76	30690	No
37	GOM_TRA_1PNPDE20080113_021353_000000382065_00075_30690_5182.N1	13-JAN-2008 02:13:53	Dark	38.000	29	Bet Car	1.6720	10200.	76	30690	No
38	GOM_TRA_1PNPDE20080113_021543_000000392065_00075_30690_5183.N1	13-JAN-2008 02:15:43	Dark	39.000	71	lot Car	2.2460	7700.0	78	30690	No
39	GOM_TRA_1PNPDE20080113_021702_000000512065_00075_30690_5184.N1	13-JAN-2008 02:17:02	Dark	50.500	41	Eps Car	1.8600	4100.0	101	30690	No
40	GOM_TRA_1PNPDE20080113_022046_000000452065_00075_30690_5185.N1	13-JAN-2008 02:20:46	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	30690	No
41	GOM_TRA_1PNPDE20080113_022415_000000462065_00075_30690_5186.N1	13-JAN-2008 02:24:15	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	30690	No
42	GOM_TRA_1PNPDE20080113_022650_000000432065_00075_30690_5187.N1	13-JAN-2008 02:26:50	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	30690	No
43	GOM_TRA_1PNPDE20080113_022817_000000402065_00075_30690_5188.N1	13-JAN-2008 02:28:17	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30690	No
44	GOM_TRA_1PNPDE20080113_023032_000000472065_00075_30690_5189.N1	13-JAN-2008 02:30:32	Straylight	47.000	1	9Alp CMa	-1.4400	11000.	94	30690	No
45	GOM_TRA_1PNPDE20080113_023301_000000422065_00075_30690_5190.N1	13-JAN-2008 02:33:01	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	30690	No
46	GOM_TRA_1PNPDE20080113_023410_000000392065_00075_30690_5191.N1	13-JAN-2008 02:34:10	Straylight	38.500	125	44lot Ori	2.7700	30000.	77	30690	No

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



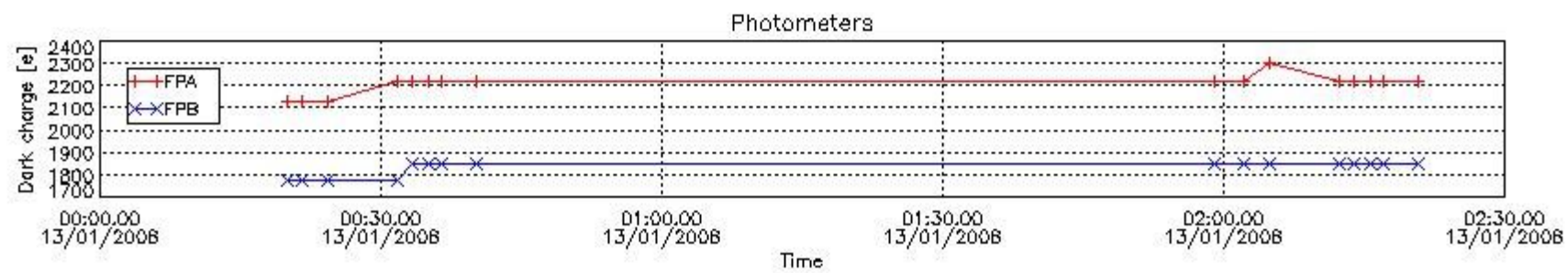
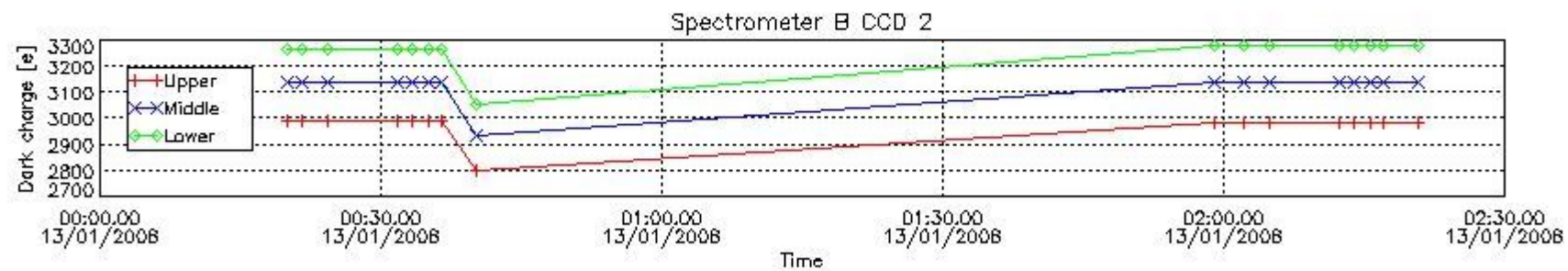
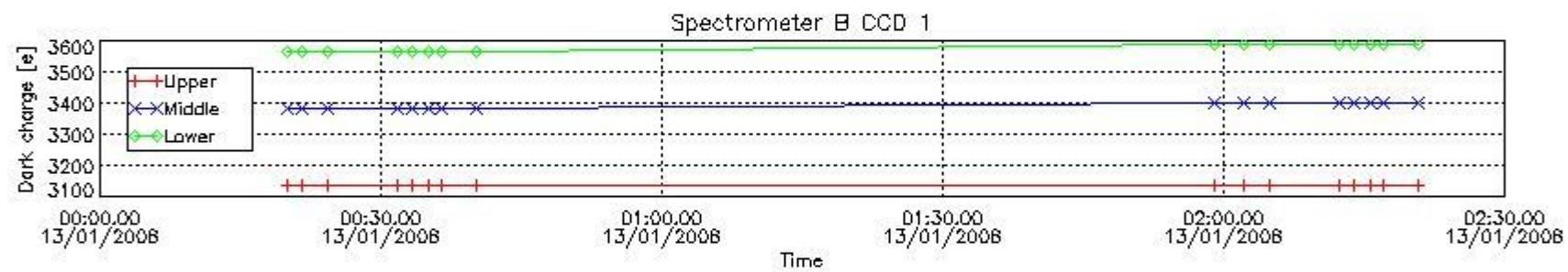
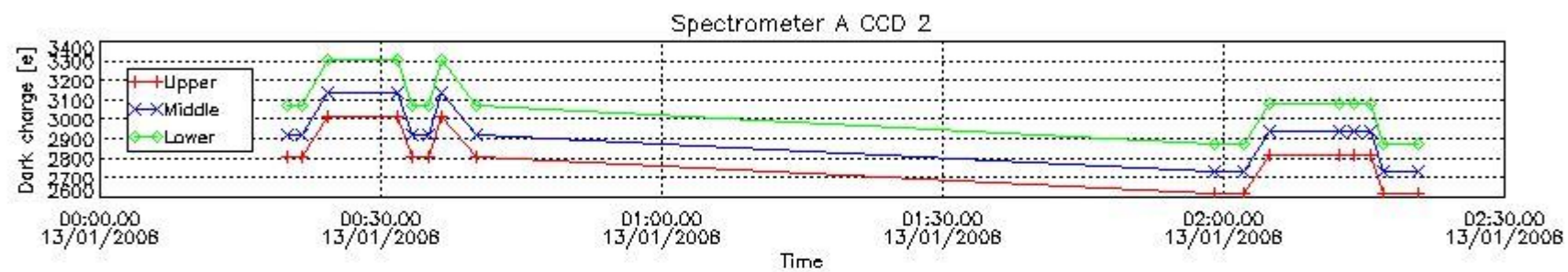
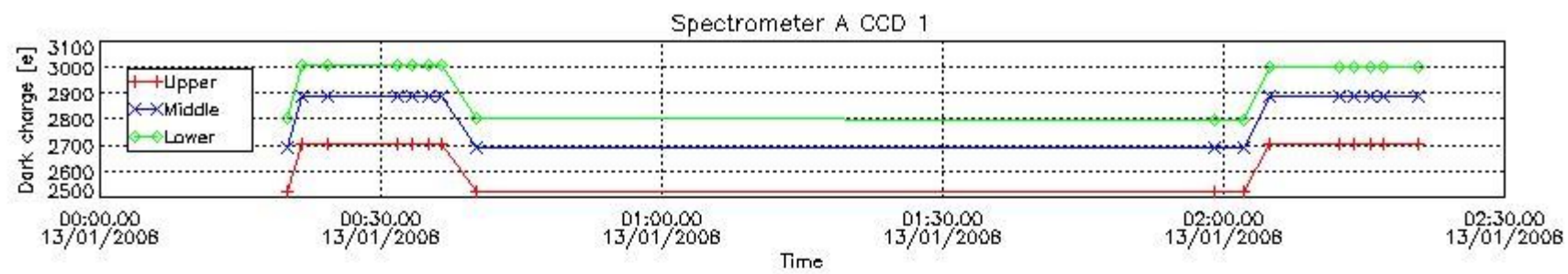
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



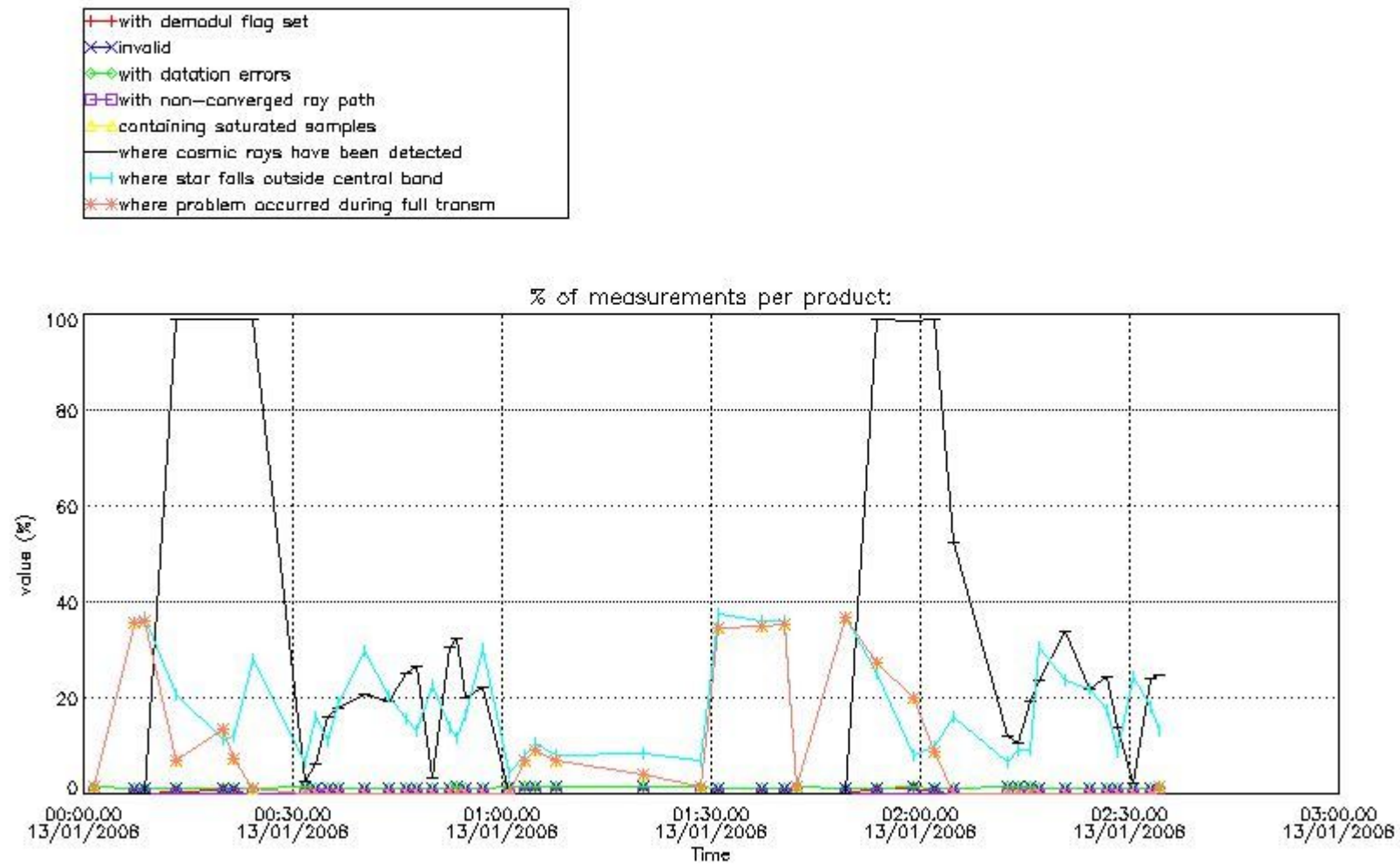
5. Demodulation flag and quality information monitoring

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

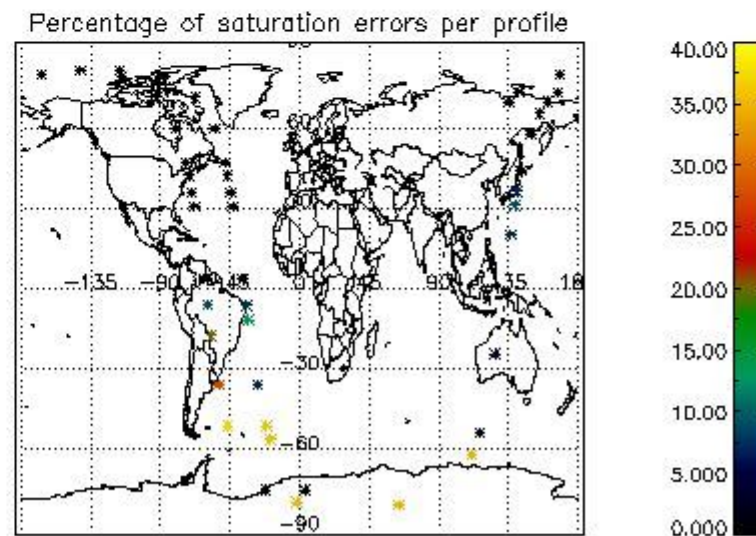
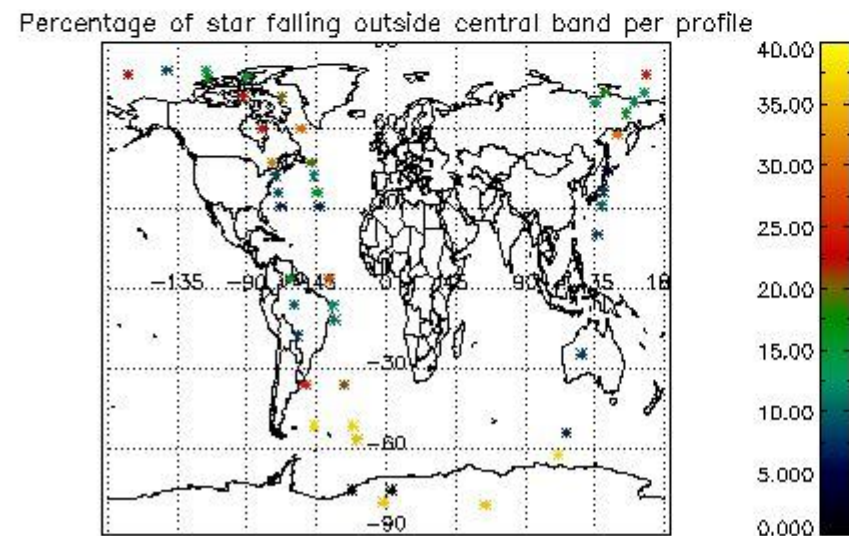
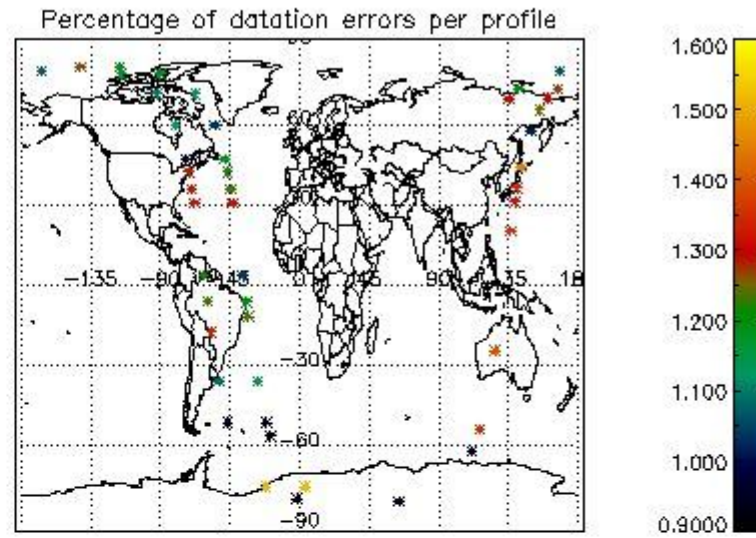
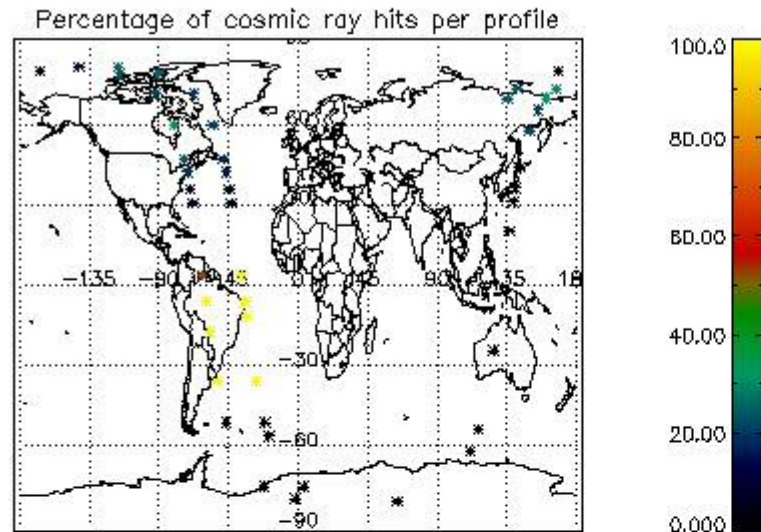
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.4348 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



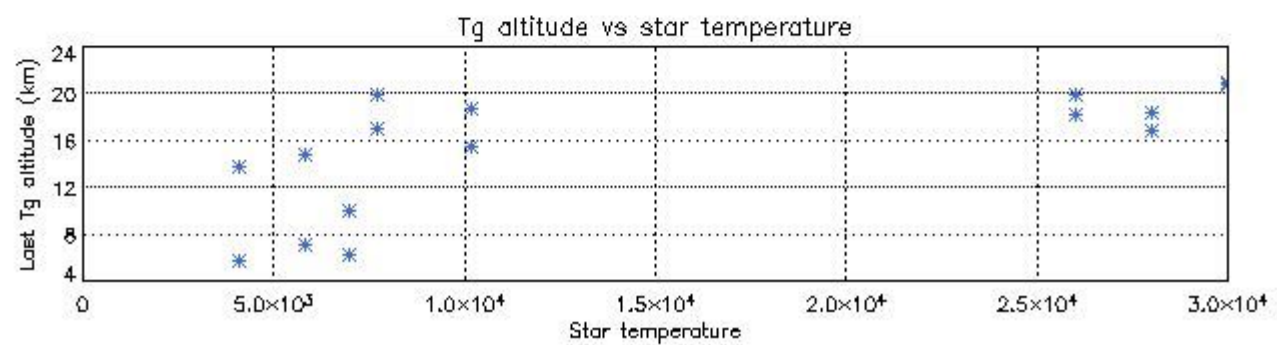
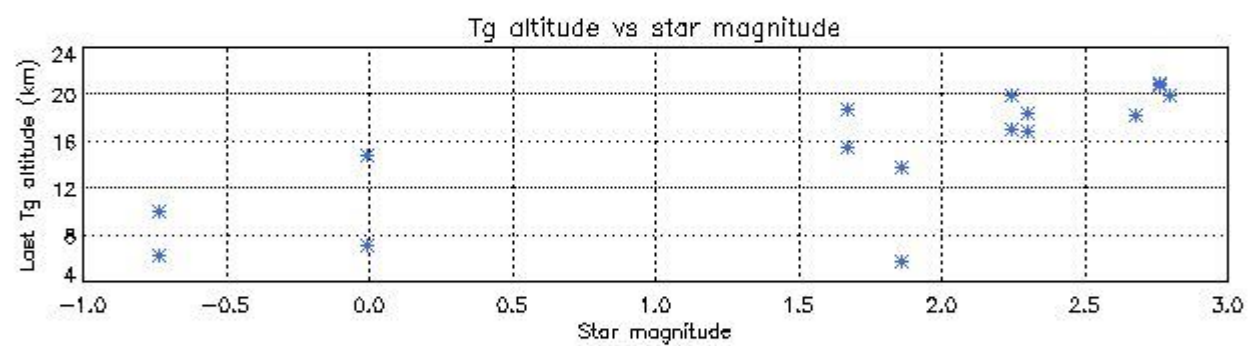
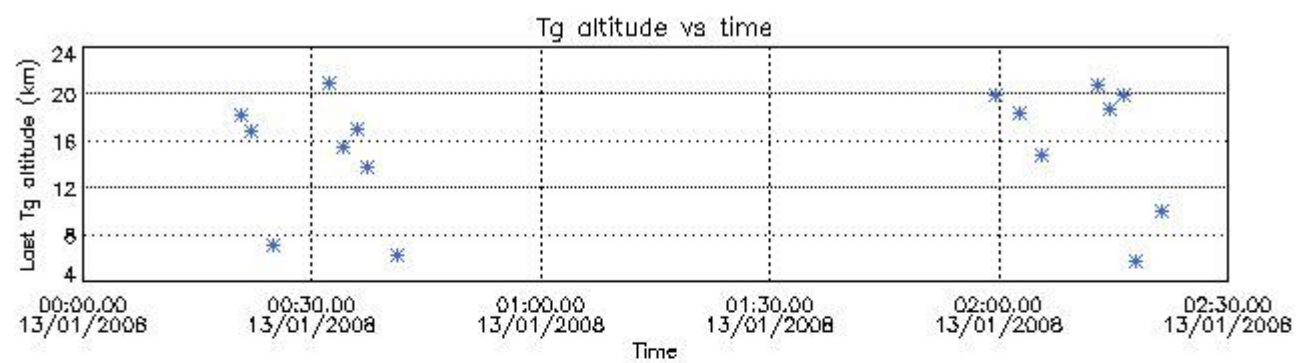
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.235	13.735	NaN
St. deviation:	5.2432	9.1092	NaN
Maximum:	20.967	25.747	NaN
Minimum:	5.6477	3.3268	NaN
Number of data:	16.000	14.000	NaN

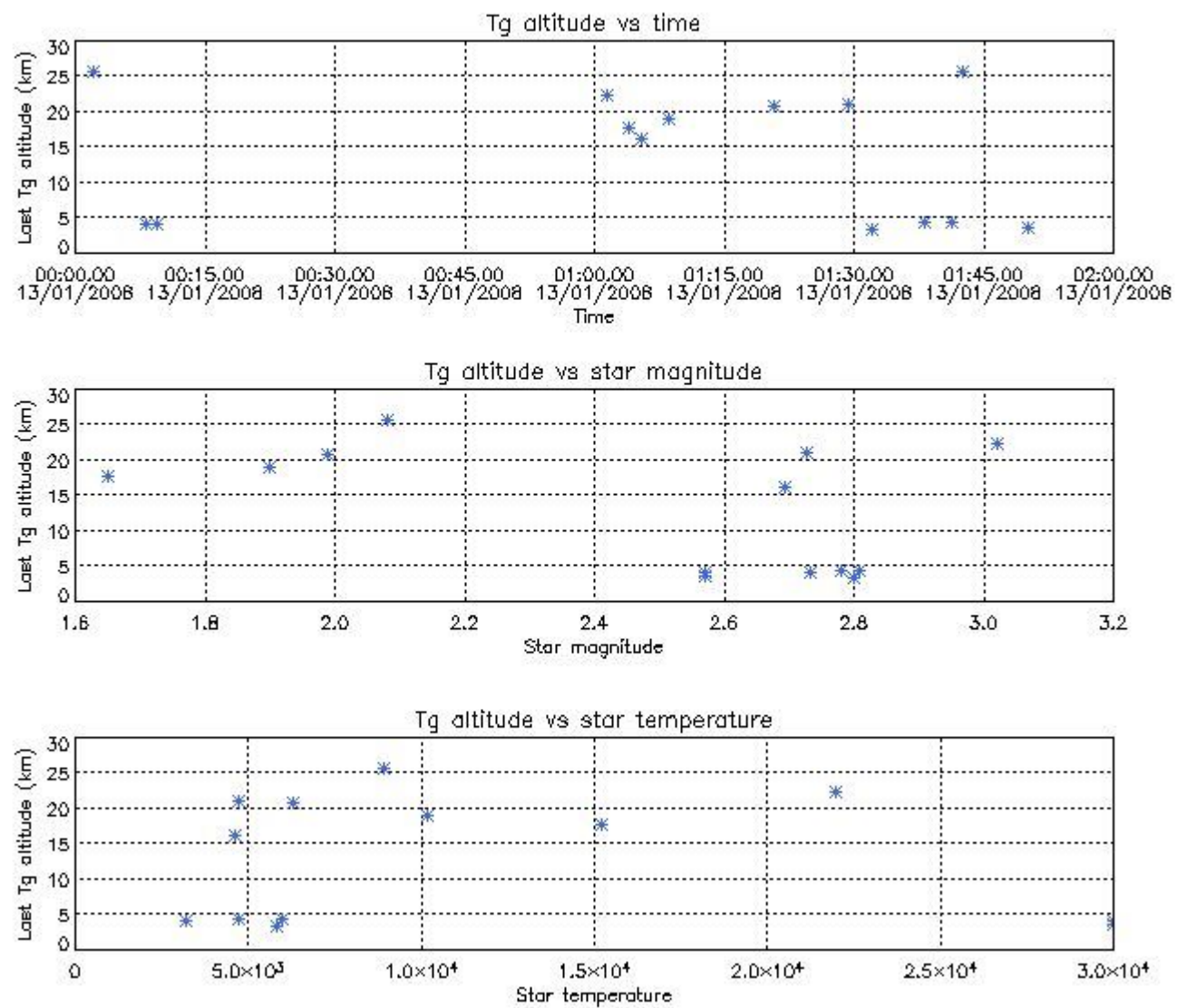
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

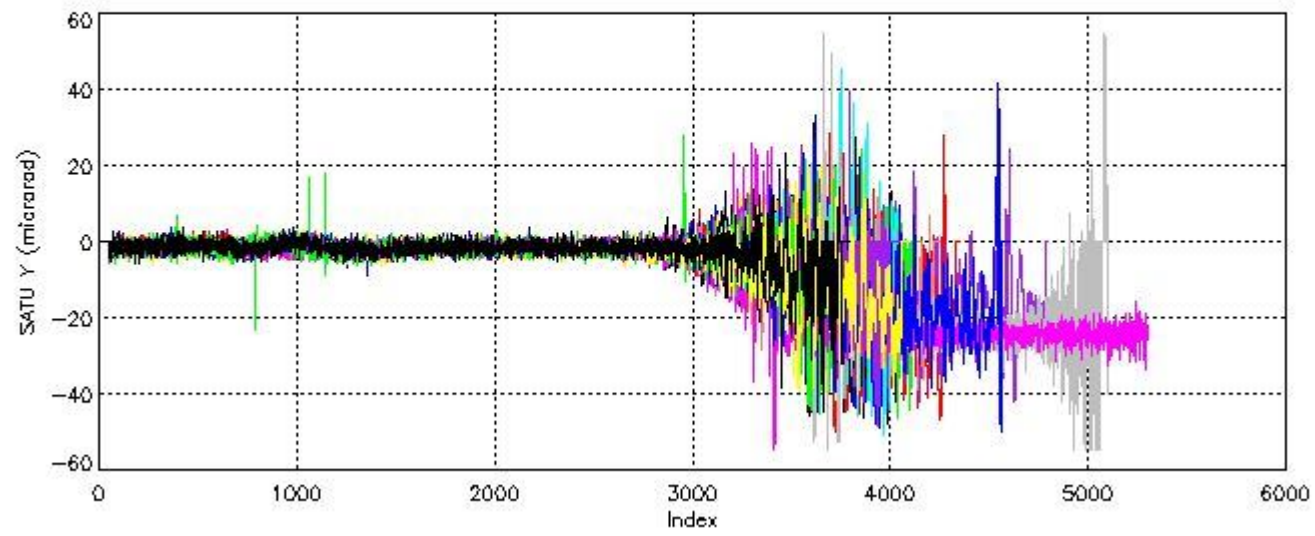
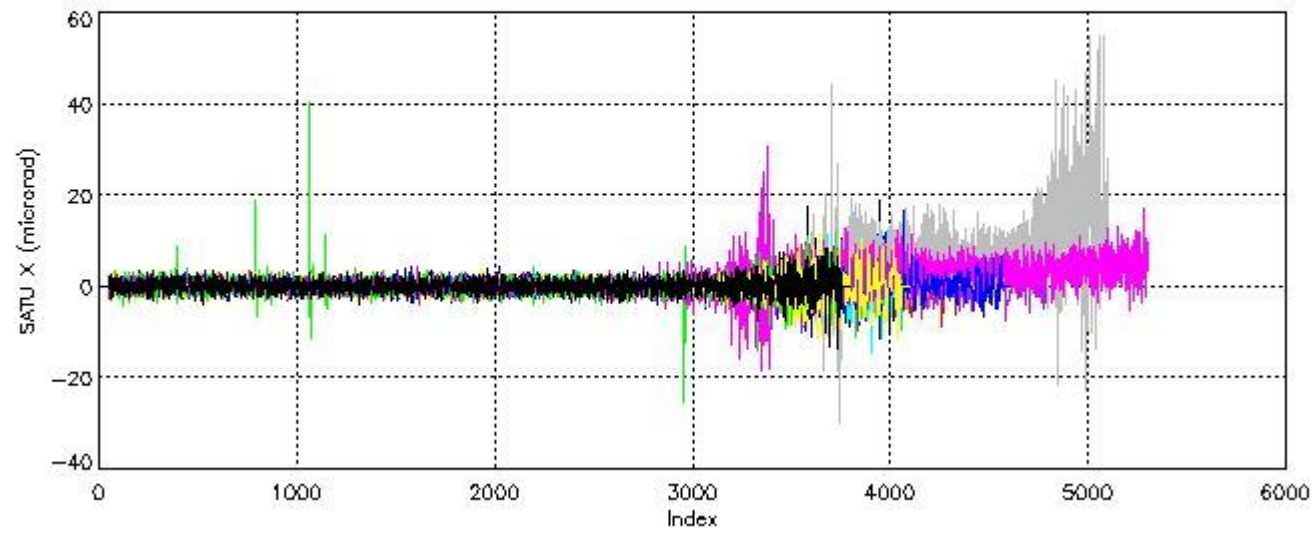


7. Star Acquisition and Tracking Unit (SATU)

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:	0.087194	-1.3387	-0.027728	-1.2556
St. deviation:	0.59678	0.94638	0.77766	1.2350
Maximum:	18.900	7.0000	5.0000	4.6000
Minimum:	-6.6000	-23.400	-5.3000	-6.5000

Number of data:	14250.	14250.	11600.	11600.
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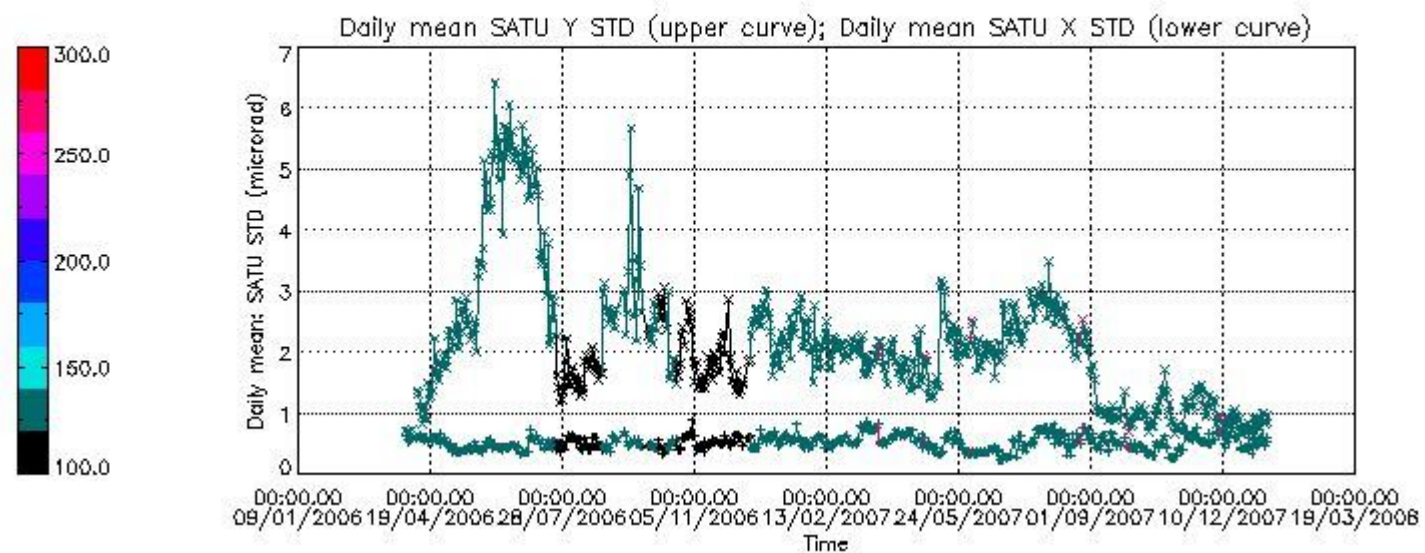
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

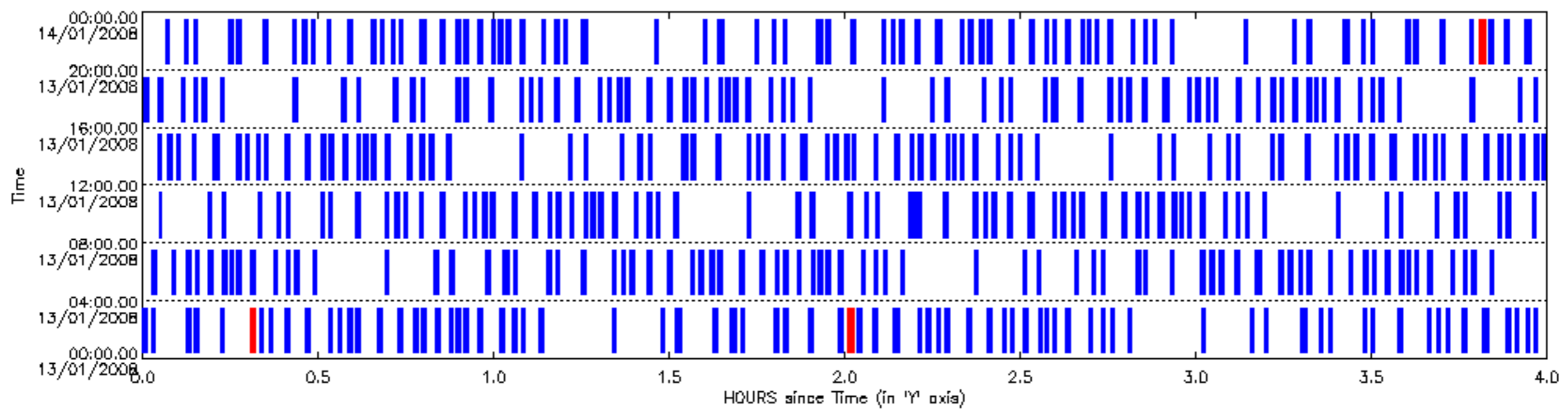
Lower curve: STD of SATU X axis

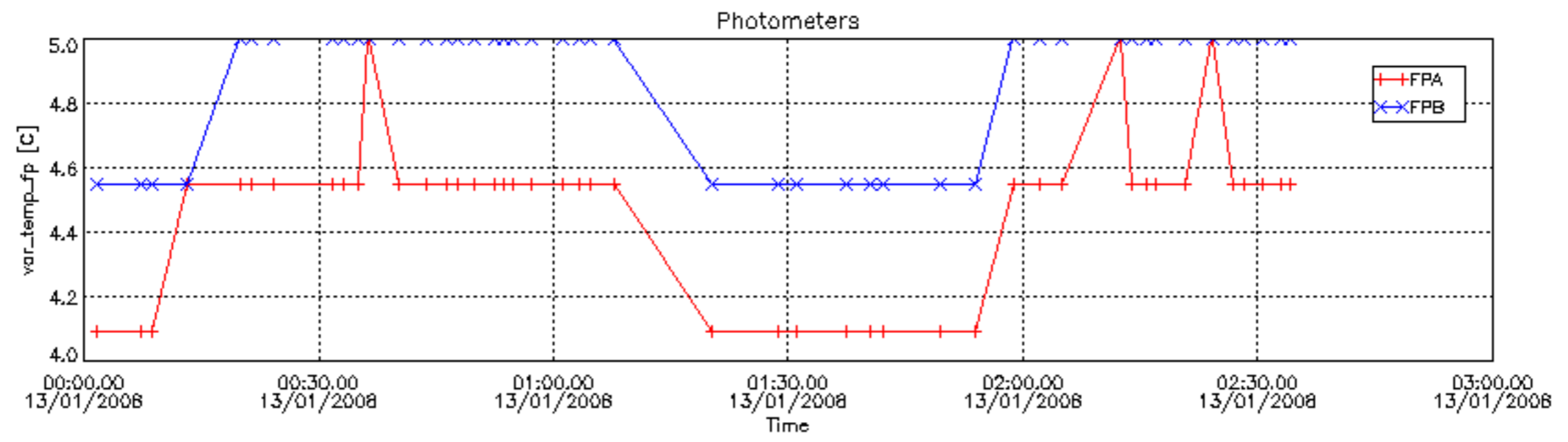
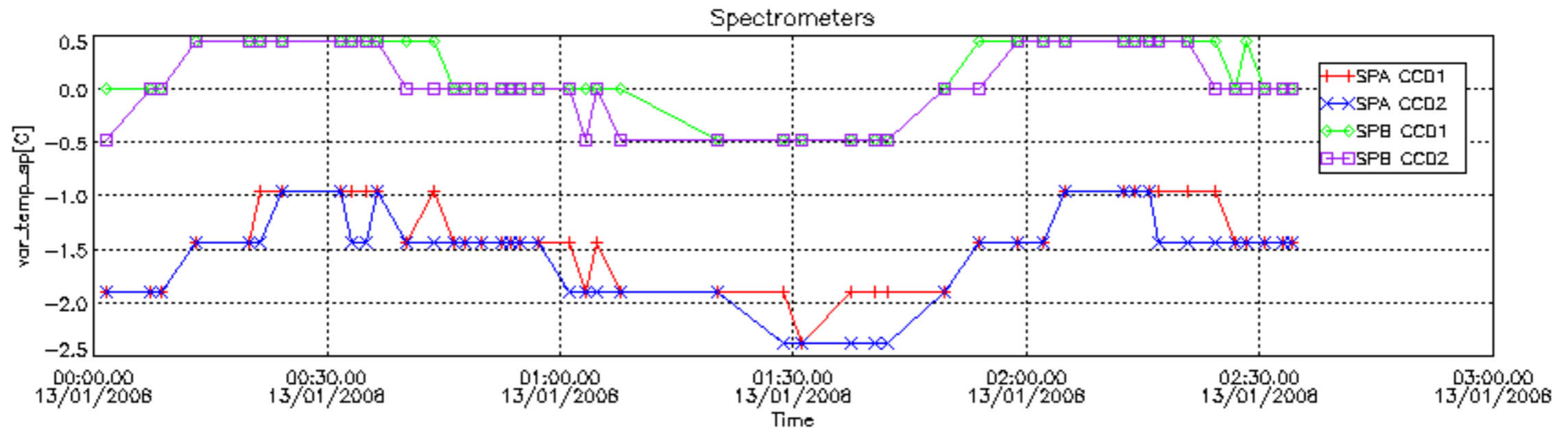


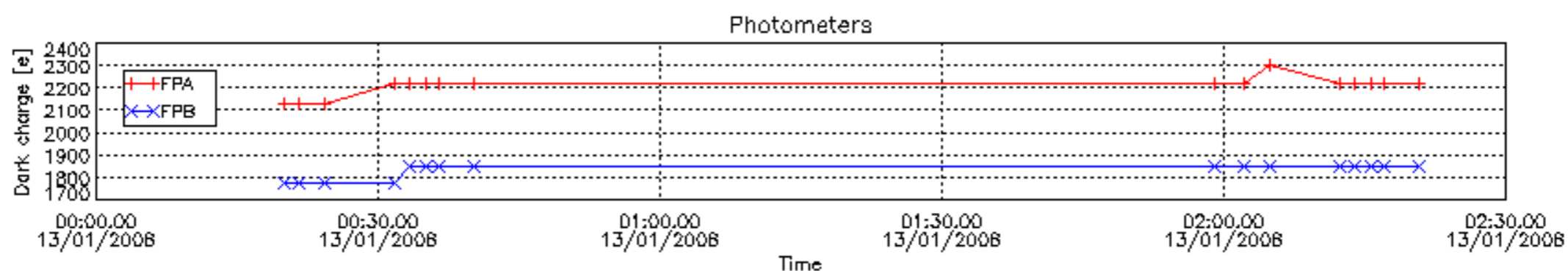
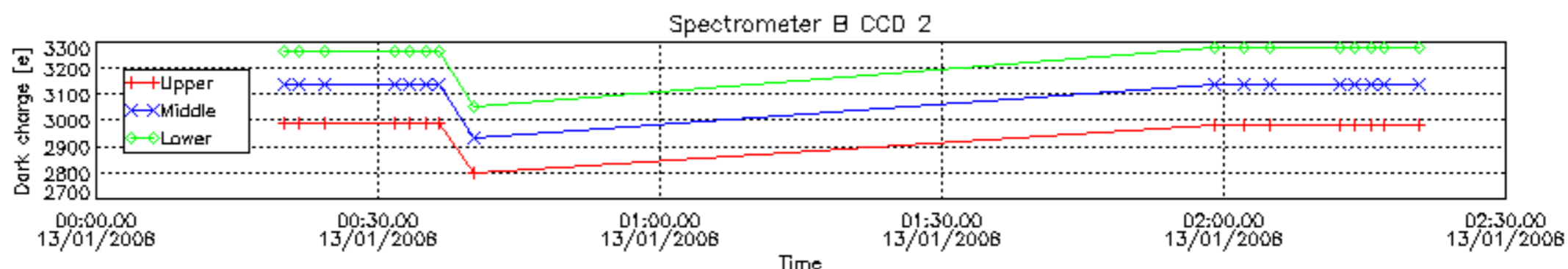
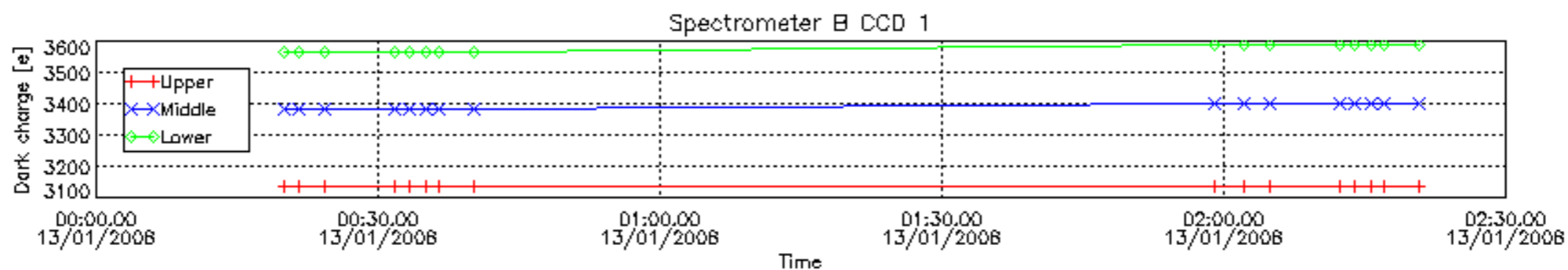
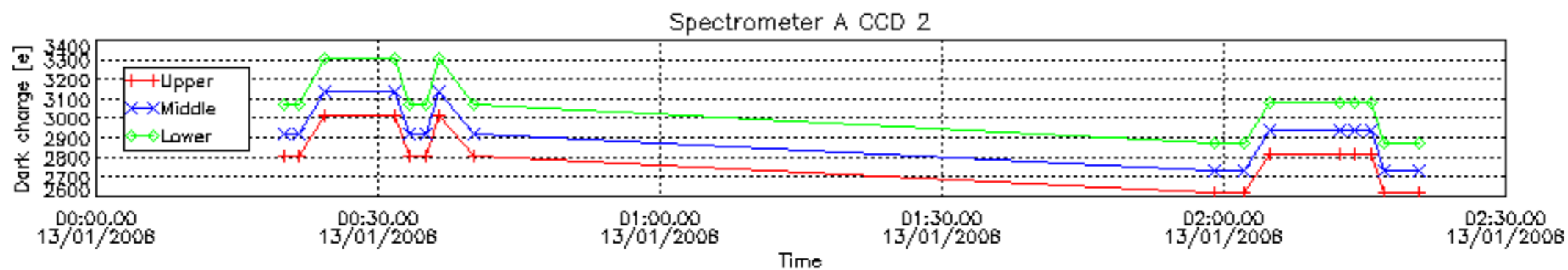
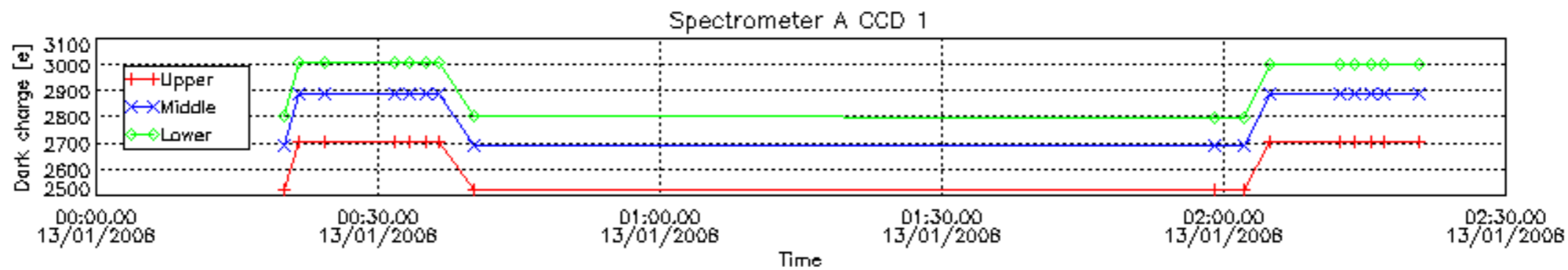
8. Auxiliary Data Files used for the production reported in section 2.4

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

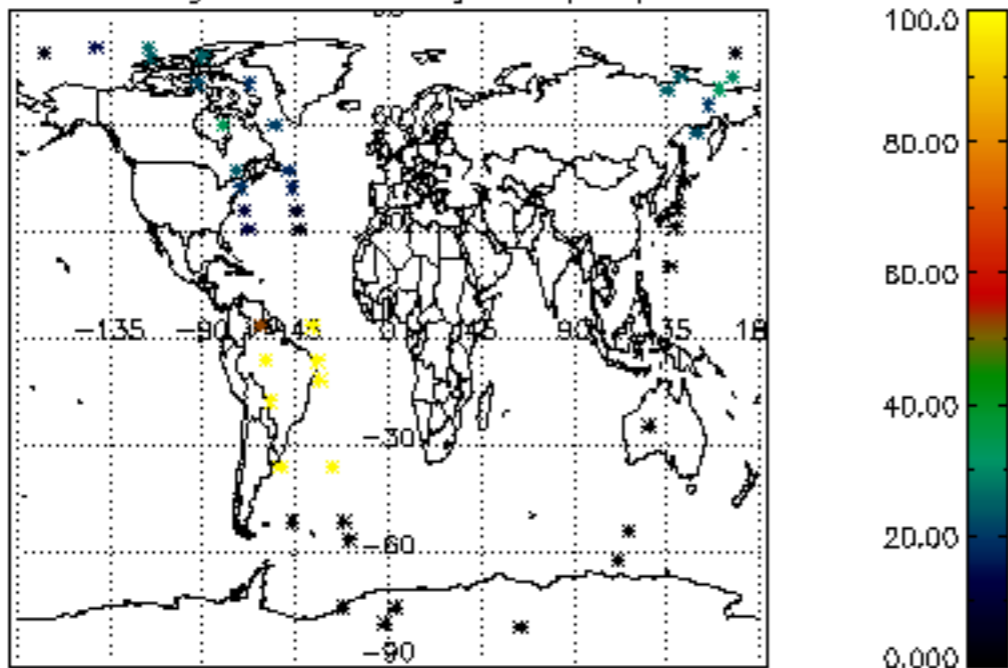
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-JAN-2008 00:01:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080109_125406_20080107_000000_20100101_000000	1	13-JAN-2008 00:01:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-JAN-2008 00:01:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JAN-2008 00:01:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-JAN-2008 00:01:32
ECMWF_FILE	AUX_ECF_AXNECM20080112_073113_20080112_210000_20080113_090000	1	13-JAN-2008 00:01:32
OPTIONAL_ECMWF_FILE	MISSING	1	13-JAN-2008 00:01:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080112_204102_000060572065_00071_30686_4937.N1	1	13-JAN-2008 00:01:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080112_222718_000057382065_00072_30687_4938.N1	4	13-JAN-2008 00:13:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080113_000815_000054192065_00073_30688_4939.N1	31	13-JAN-2008 01:49:19



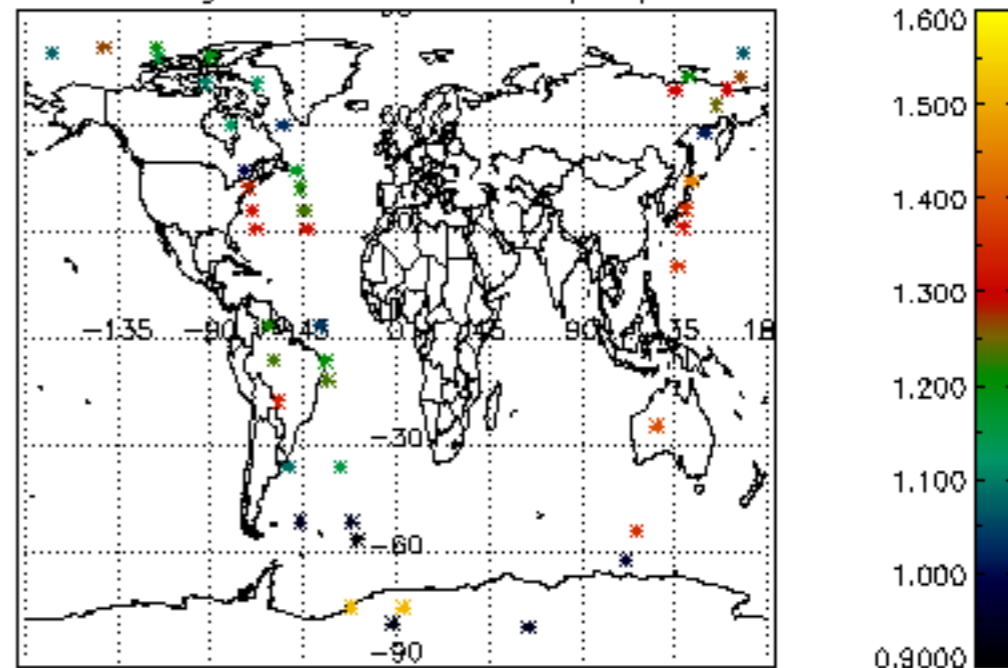




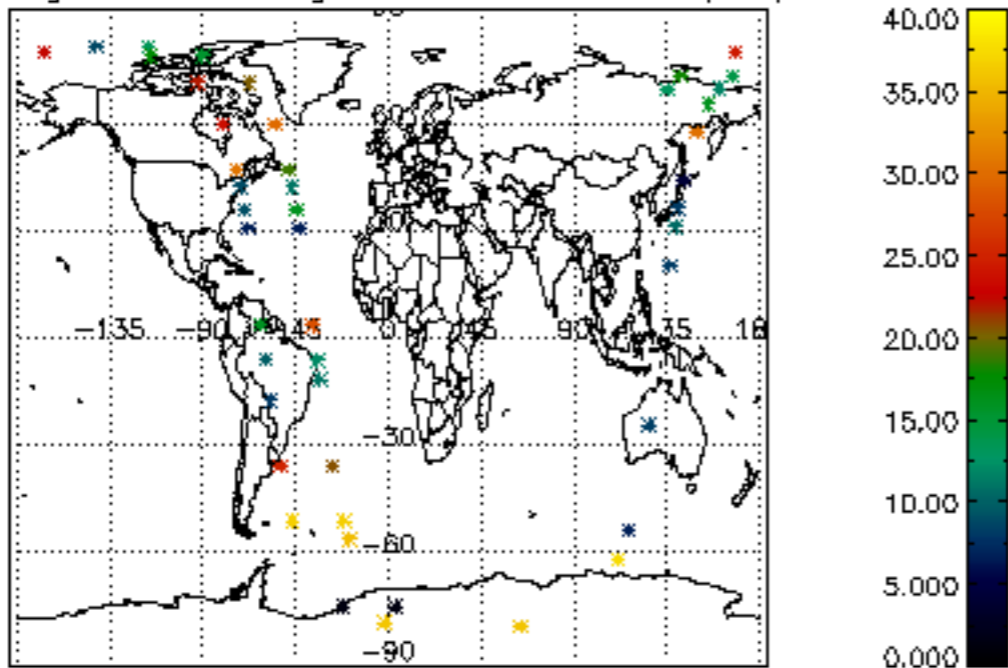
Percentage of cosmic ray hits per profile



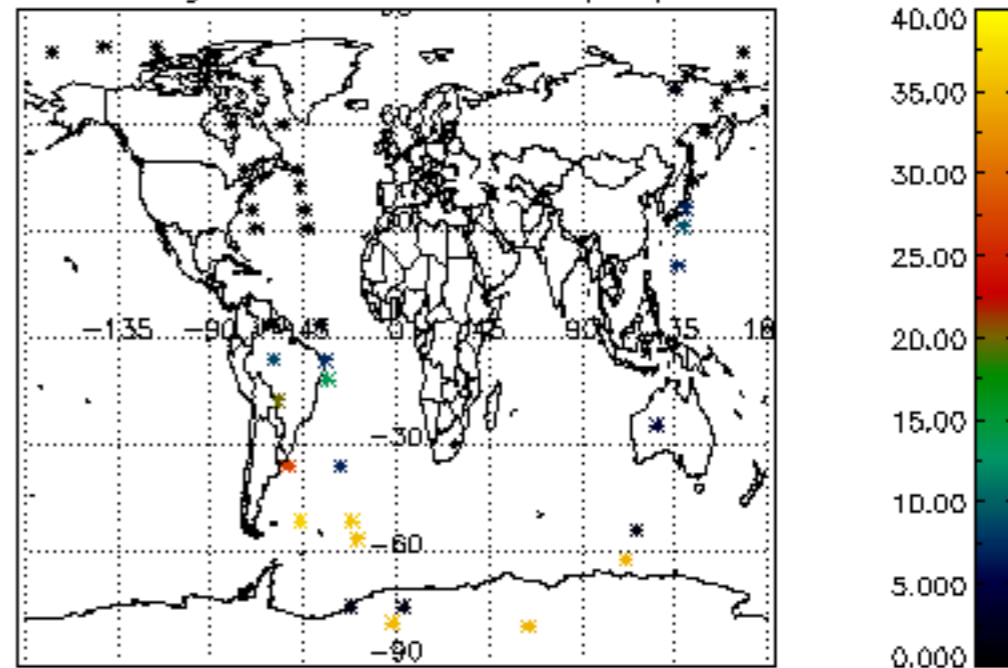
Percentage of datation errors per profile



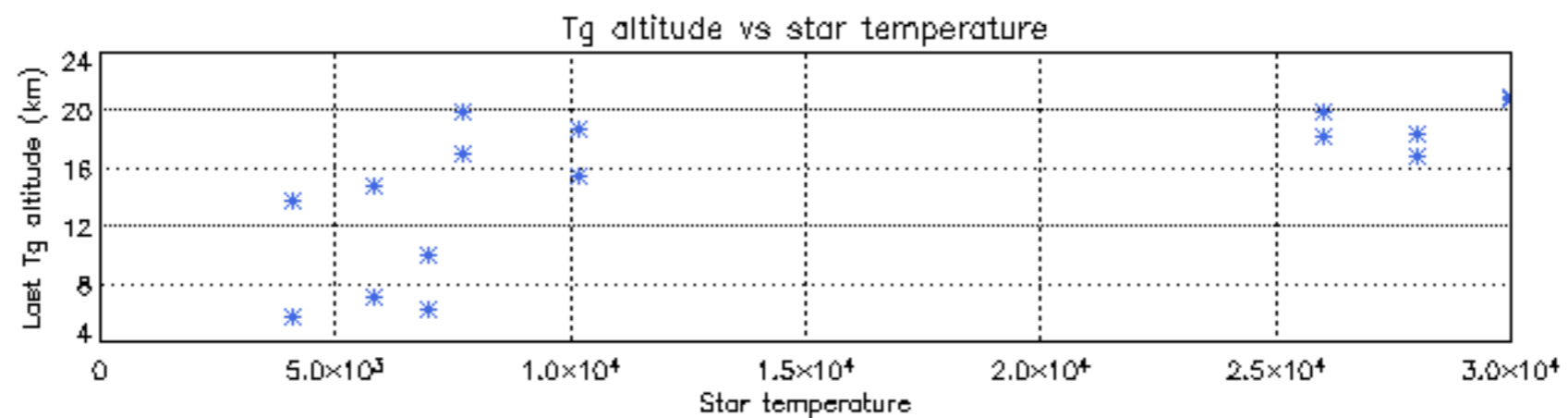
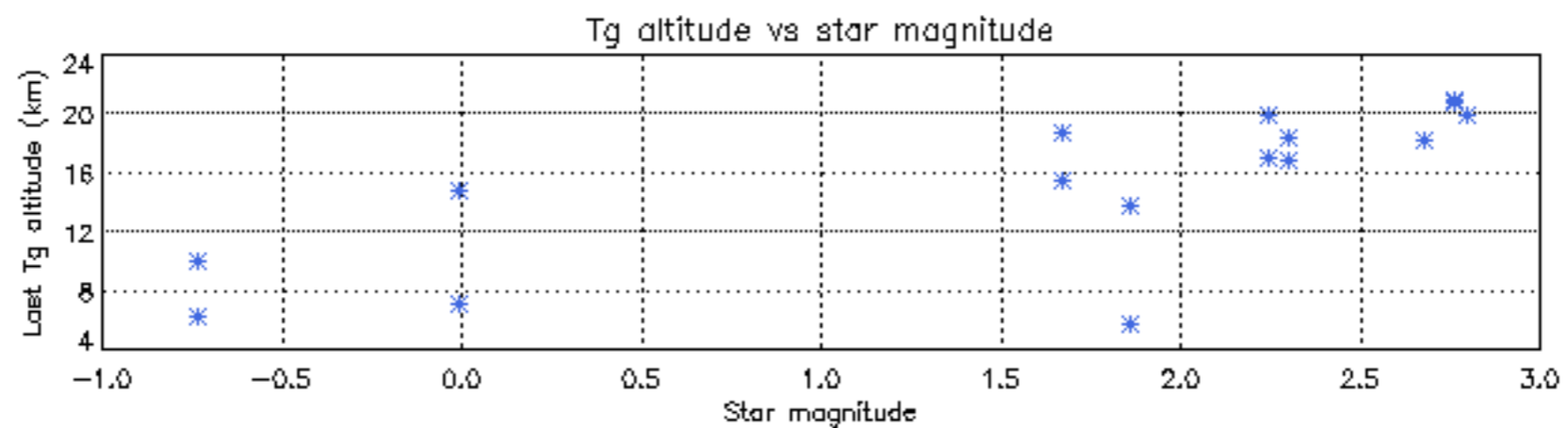
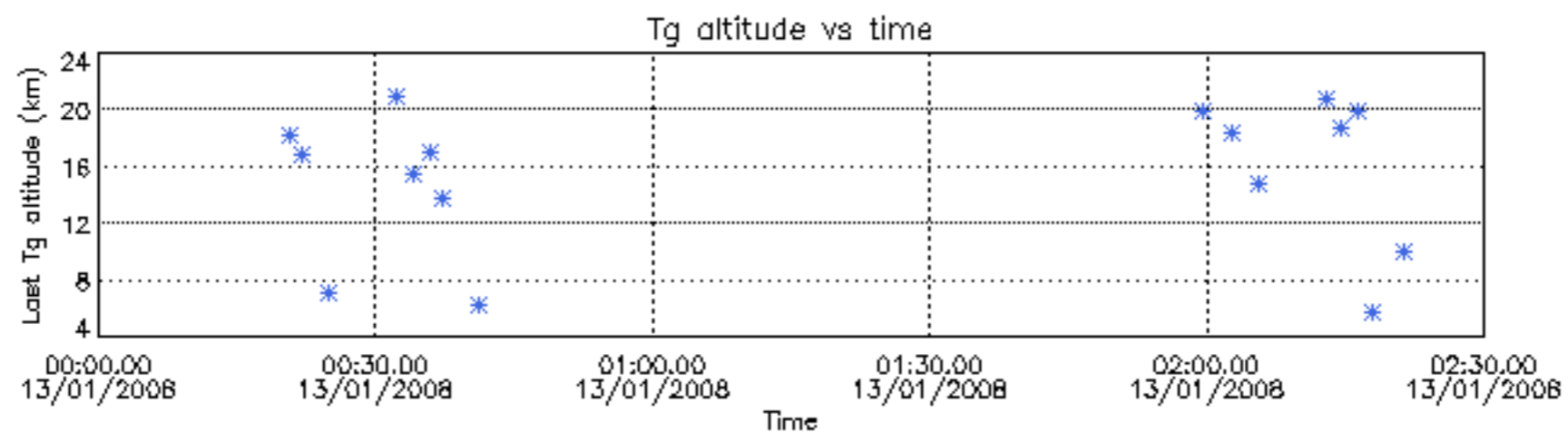
Percentage of star falling outside central band per profile



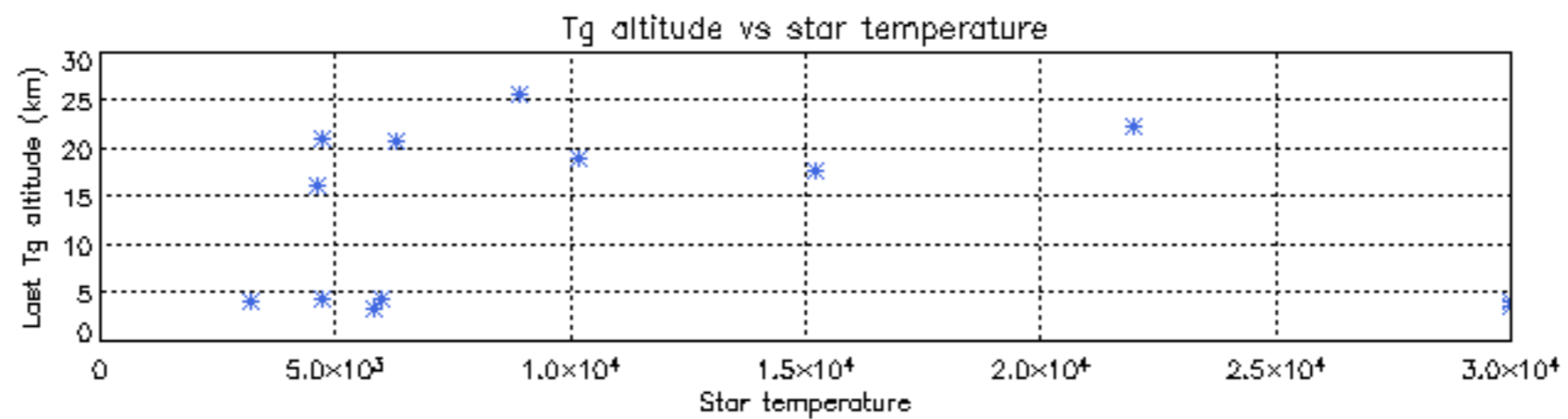
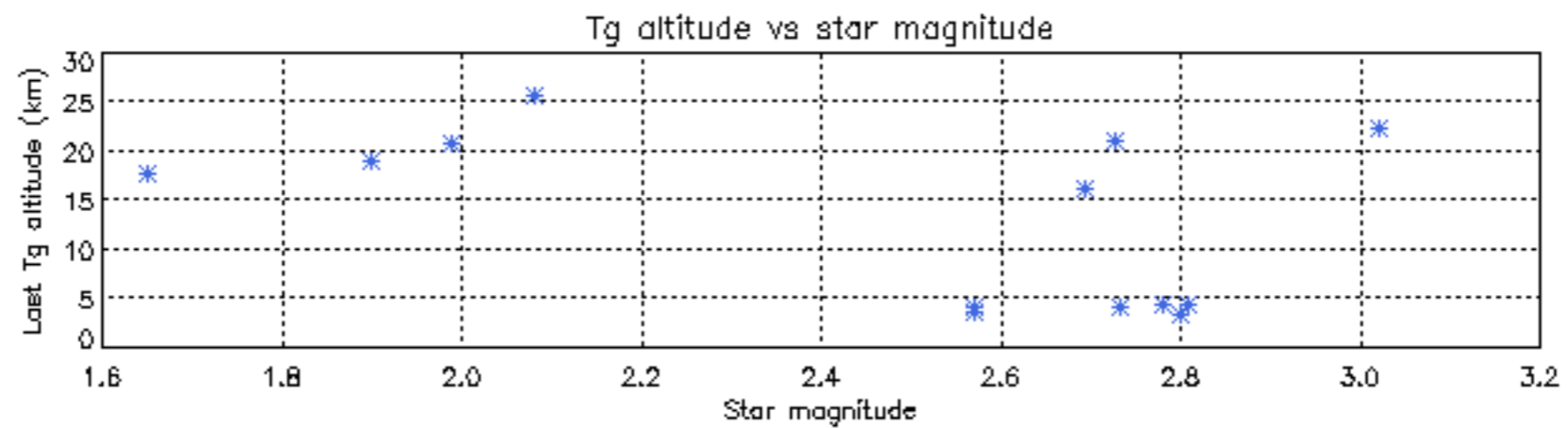
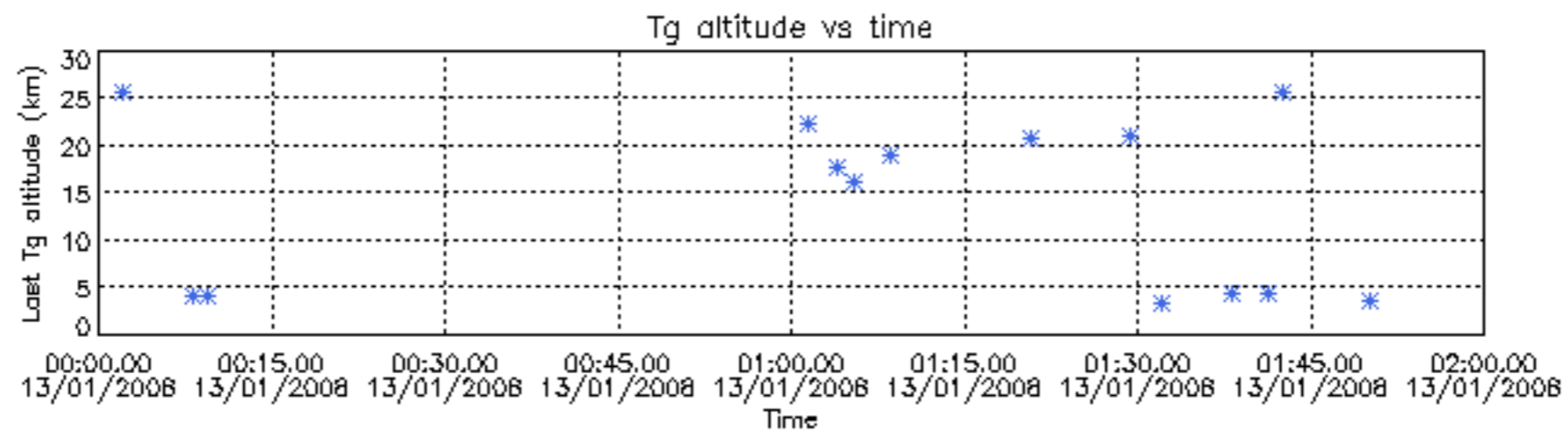
Percentage of saturation errors per profile

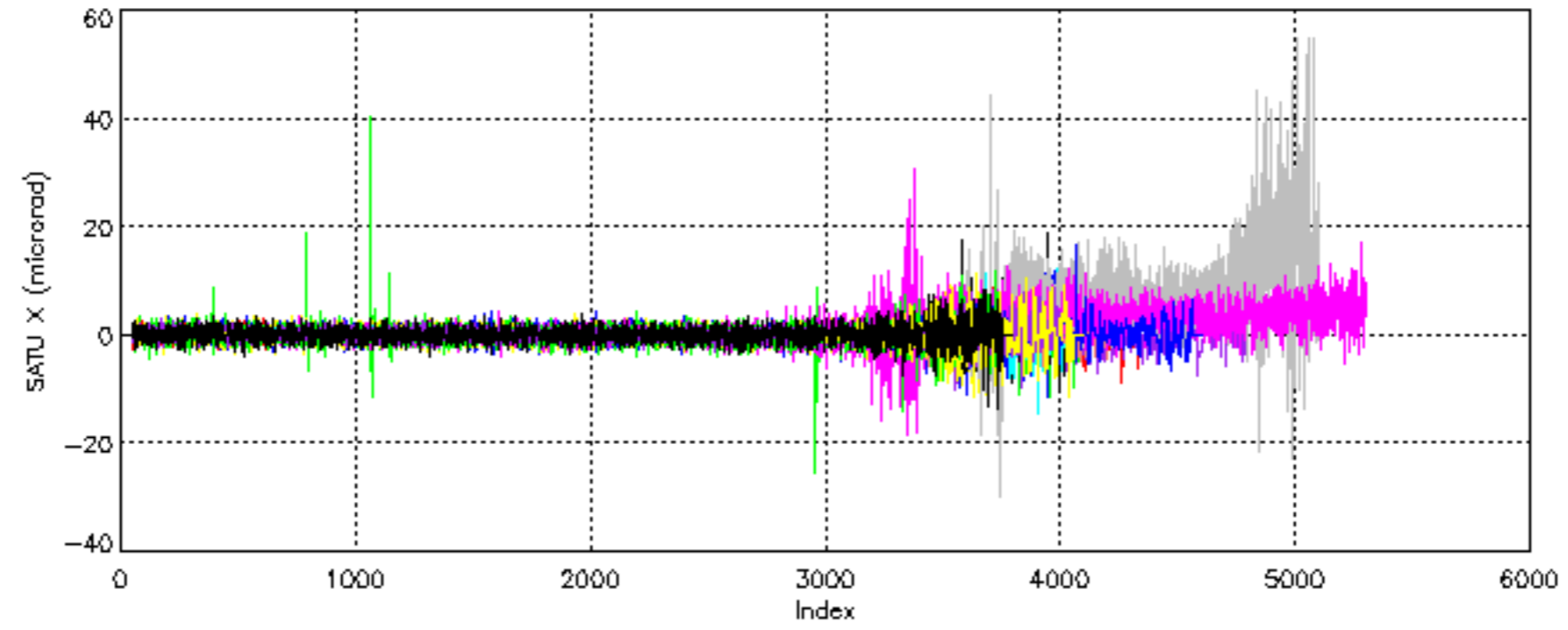


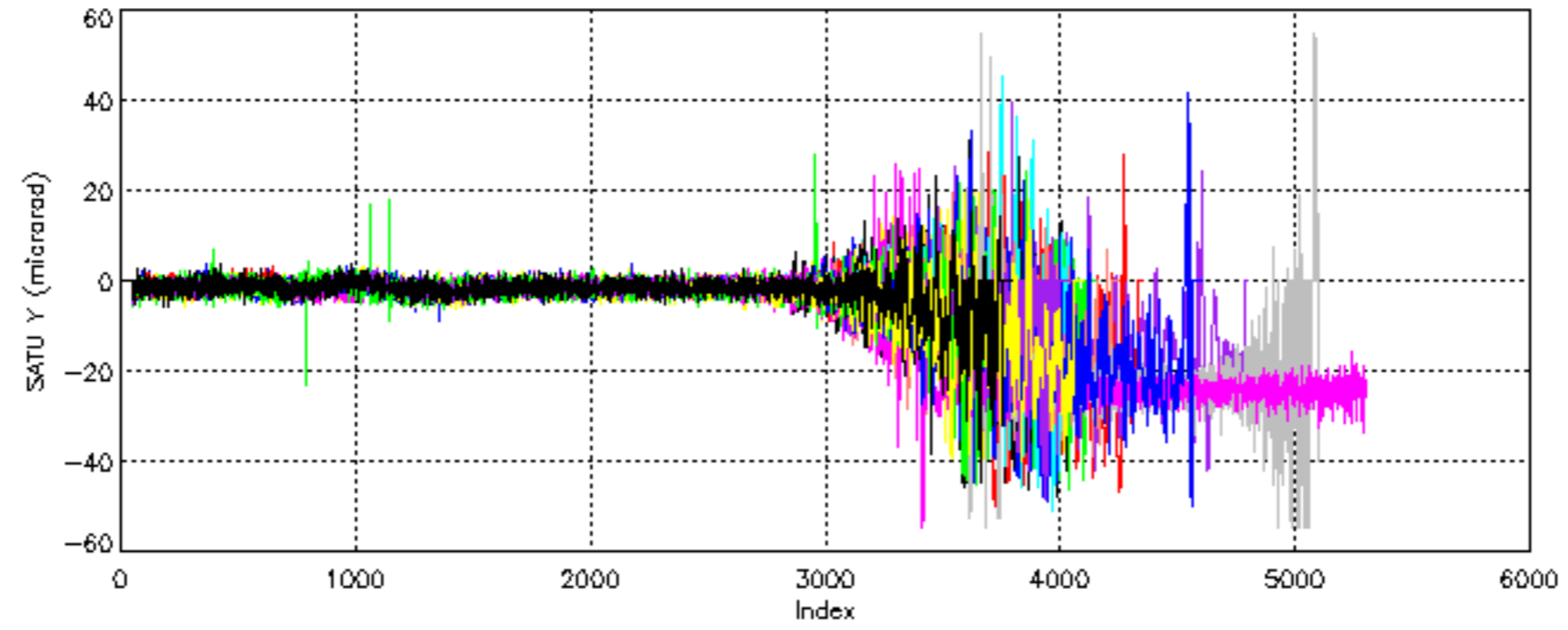
Tangent altitude at which the star is lost

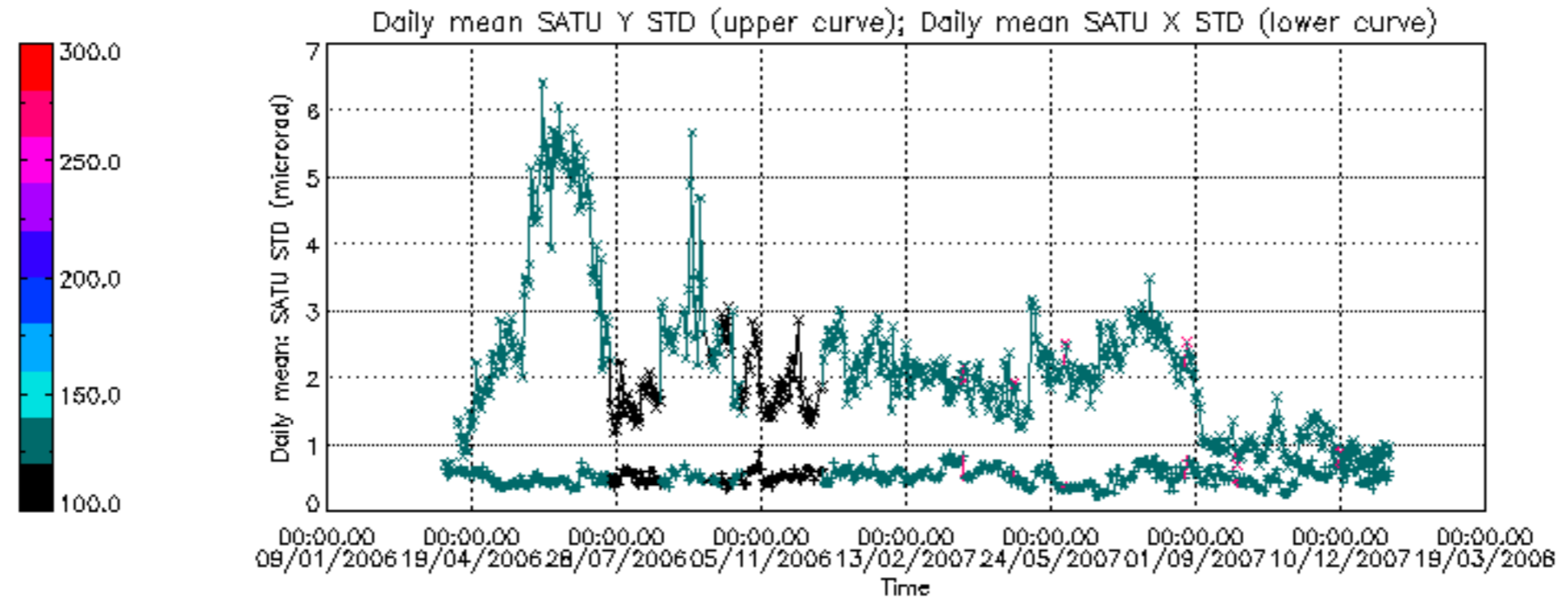


Tangent altitude at which the star is lost









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 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518
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 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30518
 10; 1319.6; 01-JAN-2008 02:02:49; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30518
 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518
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 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519
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 22; 1769.2; 01-JAN-2008 03:50:54; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30519
 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519
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3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
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17; 546.3; 01-JAN-2008 06:51:43; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30521
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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11; 3921.9; 01-JAN-2008 07:47:59; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30521
12; 4048.1; 01-JAN-2008 07:50:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30521
13; 4421.7; 01-JAN-2008 07:56:19; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30521
14; 4545.7; 01-JAN-2008 07:58:23; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30521
15; 4889.9; 01-JAN-2008 08:04:07; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30521
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17; 5193.2; 01-JAN-2008 08:09:10; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30521
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19; 5676.3; 01-JAN-2008 08:17:13; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30521
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28; 6668.2; 01-JAN-2008 16:56:45; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30526
29; 6763.1; 01-JAN-2008 16:58:20; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30526
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3; 1570.0; 01-JAN-2008 17:12:23; Dark ; 42.5; 47; 2Bet CMa ; 1.98; 28000;occ; 85; 0;30527
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9; 2472.8; 01-JAN-2008 17:27:25; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30527
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 7; 2202.1; 01-JAN-2008 20:44:07; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;30529
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 9; 2472.7; 01-JAN-2008 20:48:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30529
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 11; 3423.4; 01-JAN-2008 21:04:28; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30529
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 13; 3922.2; 01-JAN-2008 21:12:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30529
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 16; 4546.9; 01-JAN-2008 21:23:11; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;30529
 17; 4892.3; 01-JAN-2008 21:28:57; Bright; 54.0; 102; 24Alp Ser ; 2.60; 4250;occ; 108; 0;30529
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 22; 2692.4; 01-JAN-2008 22:32:53; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30530
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 24; 3690.5; 01-JAN-2008 22:49:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30530
 25; 3922.3; 01-JAN-2008 22:53:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30530

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28; 6767.5; 02-JAN-2008 09:44:23; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30536
29; 7018.3; 02-JAN-2008 09:48:34; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;30536
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 3; 2032.4; 02-JAN-2008 10:06:04; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30537
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 6; 2473.0; 02-JAN-2008 10:13:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30537
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11; 4050.9; 02-JAN-2008 10:39:43; Bright; 46.5; 130; 23Bet Dra ; 2.80; 5800;occ; 93; 0;30537
12; 4424.2; 02-JAN-2008 10:45:56; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30537
13; 4548.4; 02-JAN-2008 10:48:00; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;30537
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21; 5941.0; 02-JAN-2008 11:11:13; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30537
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27; 6767.9; 02-JAN-2008 11:25:00; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30537
28; 7018.5; 02-JAN-2008 11:29:10; Dark ; 38.0; 2; Alp Car ;-0.74; 7000;occ; 76; 0;30537
29; 7359.6; 02-JAN-2008 11:34:51; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30537
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 7; 2473.0; 02-JAN-2008 11:54:01; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30538
 8; 2691.8; 02-JAN-2008 11:57:40; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30538
 9; 3423.6; 02-JAN-2008 12:09:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30538
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11; 3922.6; 02-JAN-2008 12:18:10; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;30538
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13; 4424.4; 02-JAN-2008 12:26:32; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30538

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 16; 5033.3; 02-JAN-2008 12:36:41; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30538
 17; 5200.8; 02-JAN-2008 12:39:29; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;30538
 18; 5681.4; 02-JAN-2008 12:47:29; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30538
 19; 5762.1; 02-JAN-2008 12:48:50; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30538
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 22; 6040.0; 02-JAN-2008 12:53:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30538
 23; 6273.2; 02-JAN-2008 12:57:21; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30538
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 26; 6674.4; 02-JAN-2008 13:04:02; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30538
 27; 6768.4; 02-JAN-2008 13:05:36; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30538
 28; 7018.7; 02-JAN-2008 13:09:46; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30538
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 13; 4424.5; 02-JAN-2008 14:07:08; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;30539
 14; 4548.9; 02-JAN-2008 14:09:13; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30539
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 16; 5033.6; 02-JAN-2008 14:17:17; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30539
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 18; 5681.8; 02-JAN-2008 14:28:05; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30539
 19; 5762.6; 02-JAN-2008 14:29:26; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;30539
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 28; 7019.1; 02-JAN-2008 14:50:23; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30539
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 12; 4051.5; 02-JAN-2008 15:41:31; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30540
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 15; 4895.8; 02-JAN-2008 15:55:35; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30540
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 19; 5779.1; 02-JAN-2008 16:10:19; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30540
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
10; 2474.0; 03-JAN-2008 21:26:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30558
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12; 3423.6; 03-JAN-2008 21:41:50; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30558
13; 3687.4; 03-JAN-2008 21:46:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;30558
14; 3923.4; 03-JAN-2008 21:50:10; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30558
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
17; 4552.2; 03-JAN-2008 22:00:39; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30558
18; 4901.3; 03-JAN-2008 22:06:28; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30558
19; 5038.4; 03-JAN-2008 22:08:45; Bright; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;30558
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 21; 1326.1; 03-JAN-2008 07:42:05; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30550
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17; 2395.5; 04-JAN-2008 00:45:54; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30560
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22; 1191.6; 05-JAN-2008 06:36:37; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30578
23; 1355.3; 05-JAN-2008 06:39:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30578
24; 1577.3; 05-JAN-2008 06:43:02; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30578
25; 1777.5; 05-JAN-2008 06:46:23; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30578
26; 1885.7; 05-JAN-2008 06:48:11; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30578
27; 2031.4; 05-JAN-2008 06:50:36; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30578
28; 2268.3; 05-JAN-2008 06:54:33; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30578
29; 2395.2; 05-JAN-2008 06:56:40; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30578
30; 2475.5; 05-JAN-2008 06:58:01; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30578
31; 2555.6; 05-JAN-2008 06:59:21; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;30578
32; 2689.8; 05-JAN-2008 07:01:35; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30578
33; 3423.8; 05-JAN-2008 07:13:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30578
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9; 2394.9; 05-JAN-2008 20:21:27; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30586
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11; 2554.0; 05-JAN-2008 20:24:07; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30586
12; 2689.5; 05-JAN-2008 20:26:22; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30586

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 15; 3924.1; 05-JAN-2008 20:46:57; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30586
 16; 4058.9; 05-JAN-2008 20:49:11; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30586
 17; 4431.8; 05-JAN-2008 20:55:24; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30586
 18; 4609.8; 05-JAN-2008 20:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30586
 19; 4910.6; 05-JAN-2008 21:03:23; Bright; 54.5; 102; 24Alp Ser ; 2.60; 4250;occ; 109; 0;30586

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 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587
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 21; 2394.8; 05-JAN-2008 22:02:03; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30587
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 23; 2553.9; 05-JAN-2008 22:04:42; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30587
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 25; 3423.8; 05-JAN-2008 22:19:12; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30587
 26; 3684.0; 05-JAN-2008 22:23:32; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30587
 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587
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 29; 4431.8; 05-JAN-2008 22:36:00; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30587
 30; 4610.0; 05-JAN-2008 22:38:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30587
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 32; 5046.5; 05-JAN-2008 22:46:15; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30587
 33; 5372.6; 05-JAN-2008 22:51:41; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30587

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 6; -1128.0; 05-JAN-2008 07:38:33; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30578
 7; -992.0; 05-JAN-2008 07:40:49; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30578
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 9; -717.8; 05-JAN-2008 07:45:23; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30578
 10; -608.1; 05-JAN-2008 07:47:13; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30578
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 13; -165.8; 05-JAN-2008 07:54:35; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;30578
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 3; 567.4; 05-JAN-2008 09:47:24; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30580
 4; 660.2; 05-JAN-2008 09:48:57; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30580
 5; 750.0; 05-JAN-2008 09:50:27; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30580
 6; 993.1; 05-JAN-2008 09:54:30; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30580
 7; 1192.4; 05-JAN-2008 09:57:49; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30580
 8; 1355.7; 05-JAN-2008 10:00:33; Dark ; 27.0; 23; 21Eps CMA ; 1.50; 26000;occ; 54; 0;30580
 9; 1577.5; 05-JAN-2008 10:04:14; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30580
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 5; 2395.1; 05-JAN-2008 10:17:52; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30580
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 12; 4057.9; 05-JAN-2008 10:45:35; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30580
 13; 4431.0; 05-JAN-2008 10:51:48; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;30580
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 16; 5044.6; 05-JAN-2008 11:02:02; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30580
 17; 5221.7; 05-JAN-2008 11:04:59; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;30580
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 19; 5428.4; 05-JAN-2008 11:08:25; Dark ; 37.5; 158; 6Pi Sco ; 2.91; 28000;occ; 75; 0;30580
 20; 5695.6; 05-JAN-2008 11:12:52; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30580
 21; 5781.7; 05-JAN-2008 11:14:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30580
 22; 5871.0; 05-JAN-2008 11:15:48; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30580
 23; 5968.9; 05-JAN-2008 11:17:26; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30580
 24; 6054.1; 05-JAN-2008 11:18:51; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;30580
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 32; 7391.8; 05-JAN-2008 11:41:09; Dark ; 27.0; 23; 21Eps CMa ; 1.50; 26000;occ; 54; 0;30580
 33; 7613.6; 05-JAN-2008 11:44:50; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;30580

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 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581
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 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581
 10; 3423.8; 05-JAN-2008 12:15:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30581
 11; 3684.9; 05-JAN-2008 12:19:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30581
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 3; -1604.7; 05-JAN-2008 12:32:24; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30581
 4; -1426.9; 05-JAN-2008 12:35:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30581
 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581
 7; -813.6; 05-JAN-2008 12:45:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30581
 8; -716.7; 05-JAN-2008 12:47:12; Bright; 18.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 36; 0;30581

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 4; -253.7; 05-JAN-2008 12:54:55; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30581
 5; -164.3; 05-JAN-2008 12:56:24; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30581
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19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608
20; 6064.3; 07-JAN-2008 10:15:47; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30608
21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608
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27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608
29; 7617.6; 07-JAN-2008 10:41:40; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30608

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4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609
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13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609
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16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609
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23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609
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26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609
27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610
9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610
10; 3681.3; 07-JAN-2008 12:57:16; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30610
11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

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 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610
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 21; 6065.0; 07-JAN-2008 13:37:00; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30610
 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610
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 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610
 27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610
 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610
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 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611
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 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611
 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30611
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 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611
 25; 6712.5; 07-JAN-2008 15:28:23; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30611
 26; 6799.1; 07-JAN-2008 15:29:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30611
 27; 7036.5; 07-JAN-2008 15:33:47; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;30611
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 4; 1889.0; 07-JAN-2008 15:48:36; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30612
 5; 2031.5; 07-JAN-2008 15:50:58; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;30612
 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30612
 7; 2395.3; 07-JAN-2008 15:57:02; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30612
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30612
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 11; 3681.0; 07-JAN-2008 16:18:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30612
 12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612
 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612
 14; 4436.3; 07-JAN-2008 16:31:03; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;30612
 15; 4615.1; 07-JAN-2008 16:34:02; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30612
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 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612
 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612
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27; 6799.6; 07-JAN-2008 17:10:26; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30612
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13; 3924.7; 07-JAN-2008 18:03:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30613
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19; 5382.1; 07-JAN-2008 18:27:25; Dark ; 40.5; 80; 7Del Sco ; 2.32; 30000;occ; 81; 0;30613
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22; 5888.5; 07-JAN-2008 18:35:51; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30613
23; 6066.2; 07-JAN-2008 18:38:49; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30613
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7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080111_115452_000060502065_00052_30667_9867.N1

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29; 6438.7; 23-JAN-2008 20:22:45; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30843
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31; 6815.6; 23-JAN-2008 20:29:01; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30843
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4; 196.7; 24-JAN-2008 01:21:06; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;30847
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6; 404.4; 24-JAN-2008 01:24:34; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;30847

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22; 2675.4; 24-JAN-2008 02:02:25; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30847
23; 3426.5; 24-JAN-2008 02:14:56; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30847

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21; 1413.1; 24-JAN-2008 03:21:58; Dark ; 41.0; 23; 21Eps Cma ; 1.50; 26000;occ; 82; 0;30848
22; 1496.2; 24-JAN-2008 03:23:22; Dark ; 38.0; 179; 240mi2Cma ; 3.03; 24000;occ; 76; 0;30848
23; 1626.2; 24-JAN-2008 03:25:32; Dark ; 47.0; 1; 9Alp Cma ; -1.44; 11000;occ; 94; 0;30848
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26; 2294.0; 24-JAN-2008 03:36:39; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;30848
27; 2429.2; 24-JAN-2008 03:38:55; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30848
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29; 2675.6; 24-JAN-2008 03:43:01; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30848
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 23; 1626.4; 24-JAN-2008 05:06:08; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;30849
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 26; 2294.0; 24-JAN-2008 05:17:15; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30849
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 21; 1413.5; 24-JAN-2008 06:43:11; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;30850
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 23; 1626.5; 24-JAN-2008 06:46:44; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30850
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 29; 2675.8; 24-JAN-2008 07:04:13; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30850
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9;	137.6;	24-JAN-2008	21:27:18;	Dark	;	42.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	84;	0;	30859
10;	313.6;	24-JAN-2008	21:30:14;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30859
11;	410.9;	24-JAN-2008	21:31:52;	Dark	;	45.5;	12;	Alp1Cru	;	0.77;	30000;occ;	91;	0;	30859
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13;	785.3;	24-JAN-2008	21:38:06;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30859
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17;	1266.6;	24-JAN-2008	21:46:07;	Dark	;	40.0;	117;	Pi Pup	;	2.71;	3800;occ;	80;	0;	30859
18;	1414.8;	24-JAN-2008	21:48:36;	Dark	;	41.0;	23;	21Eps CMA	;	1.50;	26000;occ;	82;	0;	30859
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 28; 7304.4; 25-JAN-2008 11:10:57; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30866
 29; 7452.4; 25-JAN-2008 11:13:25; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;30866
 30; 7535.4; 25-JAN-2008 11:14:48; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;30866
 31; 7665.0; 25-JAN-2008 11:16:57; Dark ; 36.5; 1; 9Alp CMa ; -1.44; 11000;occ; 73; 0;30866

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080125_111657_000059442065_00252_30867_9976.N1

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 2; 2061.4; 25-JAN-2008 11:24:09; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;30867
 3; 2188.7; 25-JAN-2008 11:26:17; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30867
 4; 2295.5; 25-JAN-2008 11:28:04; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30867
 5; 2434.4; 25-JAN-2008 11:30:22; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30867
 6; 2549.4; 25-JAN-2008 11:32:17; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30867
 7; 2677.4; 25-JAN-2008 11:34:25; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30867
 8; 3426.7; 25-JAN-2008 11:46:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30867
 9; 4085.7; 25-JAN-2008 11:57:54; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30867
 10; 4289.7; 25-JAN-2008 12:01:18; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30867
 11; 4771.1; 25-JAN-2008 12:09:19; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30867
 12; 4897.6; 25-JAN-2008 12:11:26; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30867
 13; 5270.2; 25-JAN-2008 12:17:38; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;30867
 14; 5525.5; 25-JAN-2008 12:21:53; Dark ; 38.0; 136; 23Tau Sco ; 2.82; 30000;occ; 76; 0;30867
 15; 5613.2; 25-JAN-2008 12:23:21; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30867
 16; 5681.1; 25-JAN-2008 12:24:29; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30867
 17; 5796.0; 25-JAN-2008 12:26:24; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30867
 18; 5891.1; 25-JAN-2008 12:27:59; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;30867
 19; 6092.6; 25-JAN-2008 12:31:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30867
 20; 6178.1; 25-JAN-2008 12:32:46; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30867
 21; 6351.9; 25-JAN-2008 12:35:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30867
 22; 6451.9; 25-JAN-2008 12:37:20; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30867
 23; 6692.9; 25-JAN-2008 12:41:21; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30867
 24; 6824.7; 25-JAN-2008 12:43:33; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30867
 25; 6932.9; 25-JAN-2008 12:45:21; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30867
 26; 7089.2; 25-JAN-2008 12:47:57; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;30867
 27; 7215.6; 25-JAN-2008 12:50:04; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30867
 28; 7304.6; 25-JAN-2008 12:51:33; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30867
 29; 7452.6; 25-JAN-2008 12:54:01; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;30867
 30; 7535.7; 25-JAN-2008 12:55:24; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;30867

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080125_143444_000058852065_00254_30869_9978.N1

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 2; 1499.9; 25-JAN-2008 14:36:00; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;30869
 3; 1629.5; 25-JAN-2008 14:38:09; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;30869
 4; 2061.8; 25-JAN-2008 14:45:22; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30869
 5; 2188.9; 25-JAN-2008 14:47:29; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30869
 6; 2295.8; 25-JAN-2008 14:49:16; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30869
 7; 2435.1; 25-JAN-2008 14:51:35; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30869
 8; 2549.6; 25-JAN-2008 14:53:29; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30869
 9; 2677.6; 25-JAN-2008 14:55:37; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30869
 10; 3426.9; 25-JAN-2008 15:08:07; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30869
 11; 4086.1; 25-JAN-2008 15:19:06; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30869
 12; 4290.1; 25-JAN-2008 15:22:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;30869
 13; 4771.7; 25-JAN-2008 15:30:31; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30869
 14; 4898.1; 25-JAN-2008 15:32:38; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30869

15; 5271.2; 25-JAN-2008 15:38:51; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30869
 16; 5526.7; 25-JAN-2008 15:43:06; Dark ; 40.5; 136; 23Tau Sco ; 2.82; 30000;occ; 81; 0;30869
 17; 5613.9; 25-JAN-2008 15:44:34; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30869
 18; 5681.7; 25-JAN-2008 15:45:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30869
 19; 5796.6; 25-JAN-2008 15:47:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30869
 20; 5891.5; 25-JAN-2008 15:49:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;30869
 21; 6093.4; 25-JAN-2008 15:52:33; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30869
 22; 6179.3; 25-JAN-2008 15:53:59; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30869
 23; 6352.6; 25-JAN-2008 15:56:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30869
 24; 6453.1; 25-JAN-2008 15:58:33; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30869
 25; 6693.6; 25-JAN-2008 16:02:33; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30869
 26; 6825.5; 25-JAN-2008 16:04:45; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30869
 27; 6933.8; 25-JAN-2008 16:06:34; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30869
 28; 7089.8; 25-JAN-2008 16:09:10; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;30869
 29; 7216.0; 25-JAN-2008 16:11:16; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;30869
 30; 7305.1; 25-JAN-2008 16:12:45; Dark ; 4.5; 117; Pi Pup ; 2.71; 3800;occ; 9; 0;30869

/nas3/ENVISAT/GOMOS/GOM_NL_0P/GOM_NL_0PNPDK20080125_161245_000058622065_00255_30870_9979.N1

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 2; 1417.0; 25-JAN-2008 16:15:13; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30870
 3; 1499.9; 25-JAN-2008 16:16:36; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;30870
 4; 1629.6; 25-JAN-2008 16:18:45; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;30870
 5; 2061.9; 25-JAN-2008 16:25:58; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30870
 6; 2188.9; 25-JAN-2008 16:28:05; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;30870
 7; 2295.7; 25-JAN-2008 16:29:51; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30870
 8; 2435.2; 25-JAN-2008 16:32:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30870
 9; 2549.7; 25-JAN-2008 16:34:05; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30870
 10; 2677.7; 25-JAN-2008 16:36:13; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;30870
 11; 3426.8; 25-JAN-2008 16:48:43; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30870
 12; 4086.0; 25-JAN-2008 16:59:42; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30870
 13; 4290.2; 25-JAN-2008 17:03:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30870
 14; 4771.9; 25-JAN-2008 17:11:08; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30870
 15; 4898.4; 25-JAN-2008 17:13:14; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;30870
 16; 5271.5; 25-JAN-2008 17:19:27; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30870
 17; 5527.1; 25-JAN-2008 17:23:43; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;30870
 18; 5614.0; 25-JAN-2008 17:25:10; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30870
 19; 5681.8; 25-JAN-2008 17:26:18; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30870
 20; 5796.7; 25-JAN-2008 17:28:12; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;30870
 21; 5891.7; 25-JAN-2008 17:29:47; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;30870
 22; 6093.6; 25-JAN-2008 17:33:09; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30870
 23; 6179.8; 25-JAN-2008 17:34:35; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30870
 24; 6352.9; 25-JAN-2008 17:37:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30870
 25; 6453.7; 25-JAN-2008 17:39:09; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30870
 26; 6693.8; 25-JAN-2008 17:43:10; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30870
 27; 6826.0; 25-JAN-2008 17:45:22; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30870
 28; 6934.1; 25-JAN-2008 17:47:10; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;30870
 29; 7090.1; 25-JAN-2008 17:49:46; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;30870

/nas3/ENVISAT/GOMOS/GOM_NL_0P/GOM_NL_0PNPDK20080125_174953_000060372065_00256_30871_9980.N1

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 3; 1269.3; 25-JAN-2008 17:53:21; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30871
 4; 1417.2; 25-JAN-2008 17:55:49; Dark ; 38.5; 23; 21Eps CMa ; 1.50; 26000;occ; 77; 0;30871
 5; 1500.1; 25-JAN-2008 17:57:12; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;30871
 6; 1629.7; 25-JAN-2008 17:59:22; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;30871
 7; 2062.2; 25-JAN-2008 18:06:34; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30871
 8; 2189.0; 25-JAN-2008 18:08:41; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;30871
 9; 2295.7; 25-JAN-2008 18:10:27; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;30871
 10; 2435.5; 25-JAN-2008 18:12:47; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30871
 11; 2549.8; 25-JAN-2008 18:14:42; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30871
 12; 2677.7; 25-JAN-2008 18:16:49; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30871
 13; 3426.8; 25-JAN-2008 18:29:19; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30871
 14; 4086.0; 25-JAN-2008 18:40:18; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30871
 15; 4290.3; 25-JAN-2008 18:43:42; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30871
 16; 4772.1; 25-JAN-2008 18:51:44; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30871
 17; 4898.5; 25-JAN-2008 18:53:50; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30871
 18; 5271.8; 25-JAN-2008 19:00:04; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;30871
 19; 5527.5; 25-JAN-2008 19:04:19; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;30871
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 21; 5682.0; 25-JAN-2008 19:06:54; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30871

22; 5796.8; 25-JAN-2008 19:08:49; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30871
 23; 5891.9; 25-JAN-2008 19:10:24; Dark ; 36.5; 141; Bet Ara ; 2.84; 4600;occ; 73; 0;30871
 24; 6093.9; 25-JAN-2008 19:13:46; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30871
 25; 6180.2; 25-JAN-2008 19:15:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;30871
 26; 6353.2; 25-JAN-2008 19:18:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30871
 27; 6454.2; 25-JAN-2008 19:19:46; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30871
 28; 6694.0; 25-JAN-2008 19:23:46; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30871
 29; 6826.2; 25-JAN-2008 19:25:58; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30871
 30; 6934.4; 25-JAN-2008 19:27:46; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30871
 31; 7090.4; 25-JAN-2008 19:30:22; Dark ; 8.5; 34; Gam2Vel ; 1.79; 23000;occ; 17; 0;30871

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080125_193022_000060672065_00257_30872_9981.N1

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 5; 1500.3; 25-JAN-2008 19:37:48; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;30872
 6; 1629.9; 25-JAN-2008 19:39:58; Dark ; 45.0; 1; 9Alp CMA ;-1.44; 11000;occ; 90; 0;30872
 7; 2062.4; 25-JAN-2008 19:47:10; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30872
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 9; 2295.9; 25-JAN-2008 19:51:04; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30872
 10; 2435.8; 25-JAN-2008 19:53:24; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30872
 11; 2549.8; 25-JAN-2008 19:55:18; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30872
 12; 2677.9; 25-JAN-2008 19:57:26; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30872
 13; 3426.8; 25-JAN-2008 20:09:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30872
 14; 4086.0; 25-JAN-2008 20:20:54; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30872
 15; 4290.4; 25-JAN-2008 20:24:18; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;30872
 16; 4772.2; 25-JAN-2008 20:32:20; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30872
 17; 4898.7; 25-JAN-2008 20:34:26; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;30872
 18; 5272.1; 25-JAN-2008 20:40:40; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30872
 19; 5528.2; 25-JAN-2008 20:44:56; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;30872
 20; 5614.1; 25-JAN-2008 20:46:22; Dark ; 37.5; 85; Kap Sco ; 2.41; 28000;occ; 75; 0;30872
 21; 5682.1; 25-JAN-2008 20:47:30; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30872
 22; 5796.9; 25-JAN-2008 20:49:25; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30872
 23; 5891.9; 25-JAN-2008 20:51:00; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;30872
 24; 6094.1; 25-JAN-2008 20:54:22; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30872
 25; 6180.6; 25-JAN-2008 20:55:48; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;30872
 26; 6353.4; 25-JAN-2008 20:58:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30872
 27; 6454.6; 25-JAN-2008 21:00:22; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;30872
 28; 6694.2; 25-JAN-2008 21:04:22; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30872
 29; 6826.5; 25-JAN-2008 21:06:34; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30872
 30; 6934.6; 25-JAN-2008 21:08:22; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;30872
 31; 7090.6; 25-JAN-2008 21:10:58; Dark ; 31.5; 34; Gam2Vel ; 1.79; 23000;occ; 63; 0;30872

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080126_203925_000038952065_00272_30887_5196.N1

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13; 428.7; 27-JAN-2008 03:11:19; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30891
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4; -347.5; 27-JAN-2008 21:24:58; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30901
5; -233.1; 27-JAN-2008 21:26:52; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30901

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7;	159.7;	27-JAN-2008	21:33:25;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	30902
8;	325.5;	27-JAN-2008	21:36:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30902
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10;	666.1;	27-JAN-2008	21:41:52;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30902
11;	801.3;	27-JAN-2008	21:44:07;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30902
12;	908.5;	27-JAN-2008	21:45:54;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	30902
13;	1063.0;	27-JAN-2008	21:48:28;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	30902
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16;	1422.8;	27-JAN-2008	21:54:28;	Dark	;	38.5;	23;	21Eps CMA	;	1.50;	26000;occ;	77;	0;	30902
17;	1505.6;	27-JAN-2008	21:55:51;	Dark	;	32.0;	179;	240mi2CMA	;	3.03;	24000;occ;	64;	0;	30902
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19;	2047.1;	27-JAN-2008	22:04:53;	Dark	;	38.0;	153;	3Bet CMI	;	2.89;	13100;occ;	76;	0;	30902
20;	2191.5;	27-JAN-2008	22:07:17;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30902
21;	2299.3;	27-JAN-2008	22:09:05;	Bright;		37.5;	151;	13Mu Gem	;	2.89;	3000;occ;	75;	0;	30902
22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
23;	2681.6;	27-JAN-2008	22:15:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30902
24;	3427.2;	27-JAN-2008	22:27:53;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30902
25;	4086.8;	27-JAN-2008	22:38:52;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30902
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27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
29;	5284.1;	27-JAN-2008	22:58:50;	Dark	;	42.0;	86;	35Eta Oph	;	2.43;	10200;occ;	84;	0;	30902
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3;	-347.3;	27-JAN-2008	23:05:34;	Dark	;	38.5;	40;	The Sco	;	1.86;	7100;occ;	77;	0;	30902
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19;	2191.6;	27-JAN-2008	23:47:53;	Bright;		37.5;	44;	24Gam Gem	;	1.93;	11000;occ;	75;	0;	30903
20;	2299.5;	27-JAN-2008	23:49:41;	Bright;		38.0;	151;	13Mu Gem	;	2.89;	3000;occ;	76;	0;	30903
21;	2554.8;	27-JAN-2008	23:53:56;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	30903
22;	2681.8;	27-JAN-2008	23:56:03;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	30903
23;	3427.2;	28-JAN-2008	00:08:29;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	30903
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080122_210222_000044102065_00215_30830_5170.N1

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19; 5886.3; 23-JAN-2008 08:29:21; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;30836
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```


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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080123_103948_000059252065_00223_30838_9959.N1

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9; 666.9; 28-JAN-2008 02:43:40; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30905
10; 802.4; 28-JAN-2008 02:45:55; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30905
11; 909.5; 28-JAN-2008 02:47:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;30905
12; 1063.8; 28-JAN-2008 02:50:17; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;30905
13; 1189.7; 28-JAN-2008 02:52:23; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;30905
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 28; 7545.3; 29-JAN-2008 12:29:41; Dark ; 35.5; 179; 240mi2CMa ; 3.03; 24000;occ; 71; 0;30924

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080129_122856_000060402065_00310_30925_0011.N1

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 4; 1993.4; 29-JAN-2008 12:37:45; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;30925
 5; 2193.9; 29-JAN-2008 12:41:05; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30925
 6; 2302.6; 29-JAN-2008 12:42:54; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30925
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 8; 2685.2; 29-JAN-2008 12:49:17; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30925
 9; 3427.6; 29-JAN-2008 13:01:39; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30925
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 14; 5294.1; 29-JAN-2008 13:32:46; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;30925
 15; 5544.4; 29-JAN-2008 13:36:56; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;30925
 16; 5694.2; 29-JAN-2008 13:39:26; Dark ; 38.5; 40; The Sco ; 1.86; 7100;occ; 77; 0;30925
 17; 5808.1; 29-JAN-2008 13:41:20; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30925
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 19; 6112.4; 29-JAN-2008 13:46:24; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30925
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21; 6368.0; 29-JAN-2008 13:50:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30925
 22; 6483.7; 29-JAN-2008 13:52:35; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30925
 23; 6708.2; 29-JAN-2008 13:56:20; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30925
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 27; 7231.1; 29-JAN-2008 14:05:03; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30925
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080129_140915_000058752065_00311_30926_0012.N1

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 4; 1993.4; 29-JAN-2008 14:18:21; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;30926
 5; 2194.1; 29-JAN-2008 14:21:42; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30926
 6; 2302.8; 29-JAN-2008 14:23:30; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30926
 7; 2558.9; 29-JAN-2008 14:27:46; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30926
 8; 2685.3; 29-JAN-2008 14:29:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30926
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 12; 4786.1; 29-JAN-2008 15:04:53; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;30926
 13; 4913.4; 29-JAN-2008 15:07:01; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30926
 14; 5294.6; 29-JAN-2008 15:13:22; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;30926
 15; 5545.2; 29-JAN-2008 15:17:33; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;30926
 16; 5694.6; 29-JAN-2008 15:20:02; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30926
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 19; 6112.8; 29-JAN-2008 15:27:00; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30926
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 21; 6368.4; 29-JAN-2008 15:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30926
 22; 6484.2; 29-JAN-2008 15:33:12; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30926
 23; 6708.5; 29-JAN-2008 15:36:56; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30926
 24; 6846.1; 29-JAN-2008 15:39:14; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30926
 25; 6952.5; 29-JAN-2008 15:41:00; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;30926
 26; 7105.8; 29-JAN-2008 15:43:33; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;30926
 27; 7231.3; 29-JAN-2008 15:45:39; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30926
 28; 7316.3; 29-JAN-2008 15:47:04; Dark ; 7.0; 117; Pi Pup ; 2.71; 3800;occ; 14; 0;30926

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080129_154704_000058632065_00312_30927_0013.N1

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 3; 1509.9; 29-JAN-2008 15:50:53; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;30927
 4; 1638.9; 29-JAN-2008 15:53:02; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;30927
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 7; 2302.9; 29-JAN-2008 16:04:06; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30927
 8; 2559.2; 29-JAN-2008 16:08:23; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30927
 9; 2685.6; 29-JAN-2008 16:10:29; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;30927
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 11; 4087.2; 29-JAN-2008 16:33:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;30927
 12; 4299.1; 29-JAN-2008 16:37:22; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;30927
 13; 4786.3; 29-JAN-2008 16:45:30; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;30927
 14; 4913.6; 29-JAN-2008 16:47:37; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30927
 15; 5295.1; 29-JAN-2008 16:53:58; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;30927
 16; 5545.8; 29-JAN-2008 16:58:09; Dark ; 47.5; 16; 21Alp Sco ; 1.02; 3000;occ; 95; 0;30927
 17; 5694.8; 29-JAN-2008 17:00:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;30927
 18; 5808.8; 29-JAN-2008 17:02:32; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30927
 19; 5902.9; 29-JAN-2008 17:04:06; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;30927
 20; 6113.2; 29-JAN-2008 17:07:37; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30927
 21; 6209.4; 29-JAN-2008 17:09:13; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30927
 22; 6368.7; 29-JAN-2008 17:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30927
 23; 6484.9; 29-JAN-2008 17:13:48; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;30927
 24; 6708.7; 29-JAN-2008 17:17:32; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30927
 25; 6846.5; 29-JAN-2008 17:19:50; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30927
 26; 6952.8; 29-JAN-2008 17:21:36; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30927
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4; 1427.3; 29-JAN-2008 17:30:07; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;30928
5; 1510.1; 29-JAN-2008 17:31:29; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;30928
6; 1639.1; 29-JAN-2008 17:33:38; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30928
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13; 4087.3; 29-JAN-2008 18:14:27; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30928
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16; 4913.9; 29-JAN-2008 18:28:13; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30928
17; 5295.6; 29-JAN-2008 18:34:35; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30928
18; 5546.4; 29-JAN-2008 18:38:46; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;30928
19; 5626.9; 29-JAN-2008 18:40:06; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30928
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21; 5808.9; 29-JAN-2008 18:43:08; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30928
22; 5903.1; 29-JAN-2008 18:44:42; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;30928
23; 6113.5; 29-JAN-2008 18:48:13; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30928
24; 6209.9; 29-JAN-2008 18:49:49; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30928
25; 6369.0; 29-JAN-2008 18:52:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30928
26; 6485.4; 29-JAN-2008 18:54:25; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30928
27; 6709.0; 29-JAN-2008 18:58:08; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;30928
28; 6846.8; 29-JAN-2008 19:00:26; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;30928
29; 6953.1; 29-JAN-2008 19:02:12; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30928
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3; 1280.8; 29-JAN-2008 19:08:16; Dark ; 37.0; 117; Pi Pup ; 2.71; 3800;occ; 74; 0;30929
4; 1427.5; 29-JAN-2008 19:10:43; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;30929
5; 1510.2; 29-JAN-2008 19:12:06; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;30929
6; 1639.2; 29-JAN-2008 19:14:15; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;30929
7; 1993.1; 29-JAN-2008 19:20:08; Dark ; 52.5; 8; 10Alp CMI ; 0.40; 6500;occ; 105; 0;30929
8; 2194.4; 29-JAN-2008 19:23:30; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30929
9; 2303.2; 29-JAN-2008 19:25:19; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30929
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11; 2685.8; 29-JAN-2008 19:31:41; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30929
12; 3427.6; 29-JAN-2008 19:44:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30929
13; 4087.2; 29-JAN-2008 19:55:03; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;30929
14; 4299.4; 29-JAN-2008 19:58:35; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;30929
15; 4786.7; 29-JAN-2008 20:06:42; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;30929
16; 4914.1; 29-JAN-2008 20:08:49; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30929
17; 5295.9; 29-JAN-2008 20:15:11; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;30929
18; 5547.0; 29-JAN-2008 20:19:22; Dark ; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;30929
19; 5627.1; 29-JAN-2008 20:20:42; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30929
20; 5695.2; 29-JAN-2008 20:21:51; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;30929
21; 5809.0; 29-JAN-2008 20:23:44; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30929
22; 5903.3; 29-JAN-2008 20:25:19; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;30929
23; 6113.7; 29-JAN-2008 20:28:49; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30929
24; 6210.4; 29-JAN-2008 20:30:26; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30929
25; 6369.2; 29-JAN-2008 20:33:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30929
26; 6485.8; 29-JAN-2008 20:35:01; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30929
27; 6709.1; 29-JAN-2008 20:38:44; Dark ; 45.0; 29; Bet Car ; 1.67; 10200;occ; 90; 0;30929
28; 6847.0; 29-JAN-2008 20:41:02; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30929
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3; -429.8; 30-JAN-2008 01:22:09; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;30932
4; -339.8; 30-JAN-2008 01:23:39; Dark ; 37.5; 40; The Sco ; 1.86; 7100;occ; 75; 0;30932
5; -132.0; 30-JAN-2008 01:27:07; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;30932
6; 78.9; 30-JAN-2008 01:30:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30933
7; 176.0; 30-JAN-2008 01:32:15; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30933
8; 334.1; 30-JAN-2008 01:34:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30933
9; 451.5; 30-JAN-2008 01:36:50; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;30933

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11; 812.2; 30-JAN-2008 01:42:51; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30933
12; 918.3; 30-JAN-2008 01:44:37; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30933
13; 1071.4; 30-JAN-2008 01:47:10; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;30933
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