

# GOMOS Daily Report 14-APR-2008

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	16APR2008 05:35:11
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14APR2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15APR2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

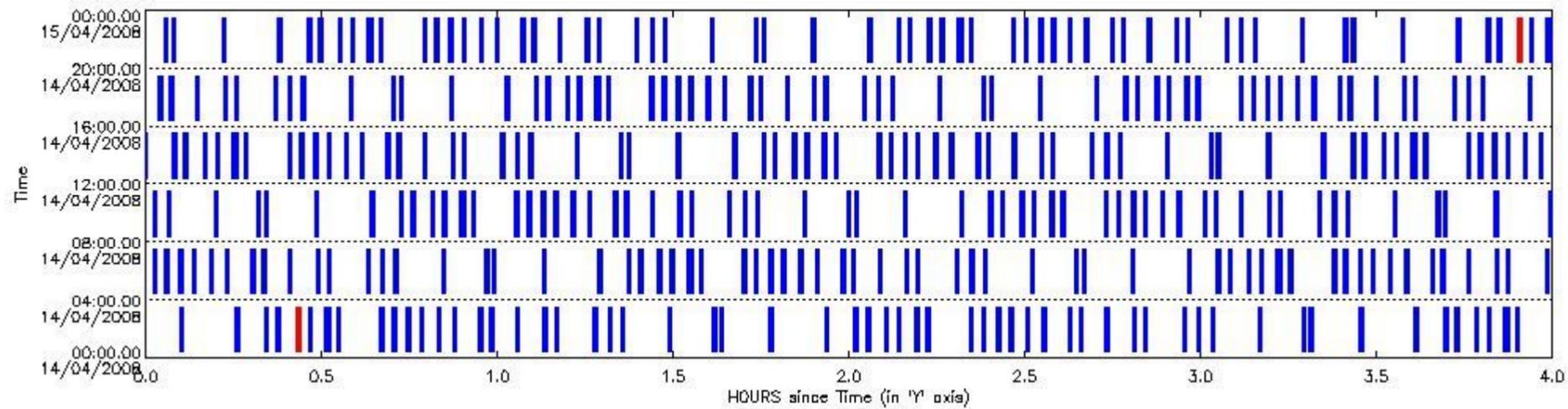
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

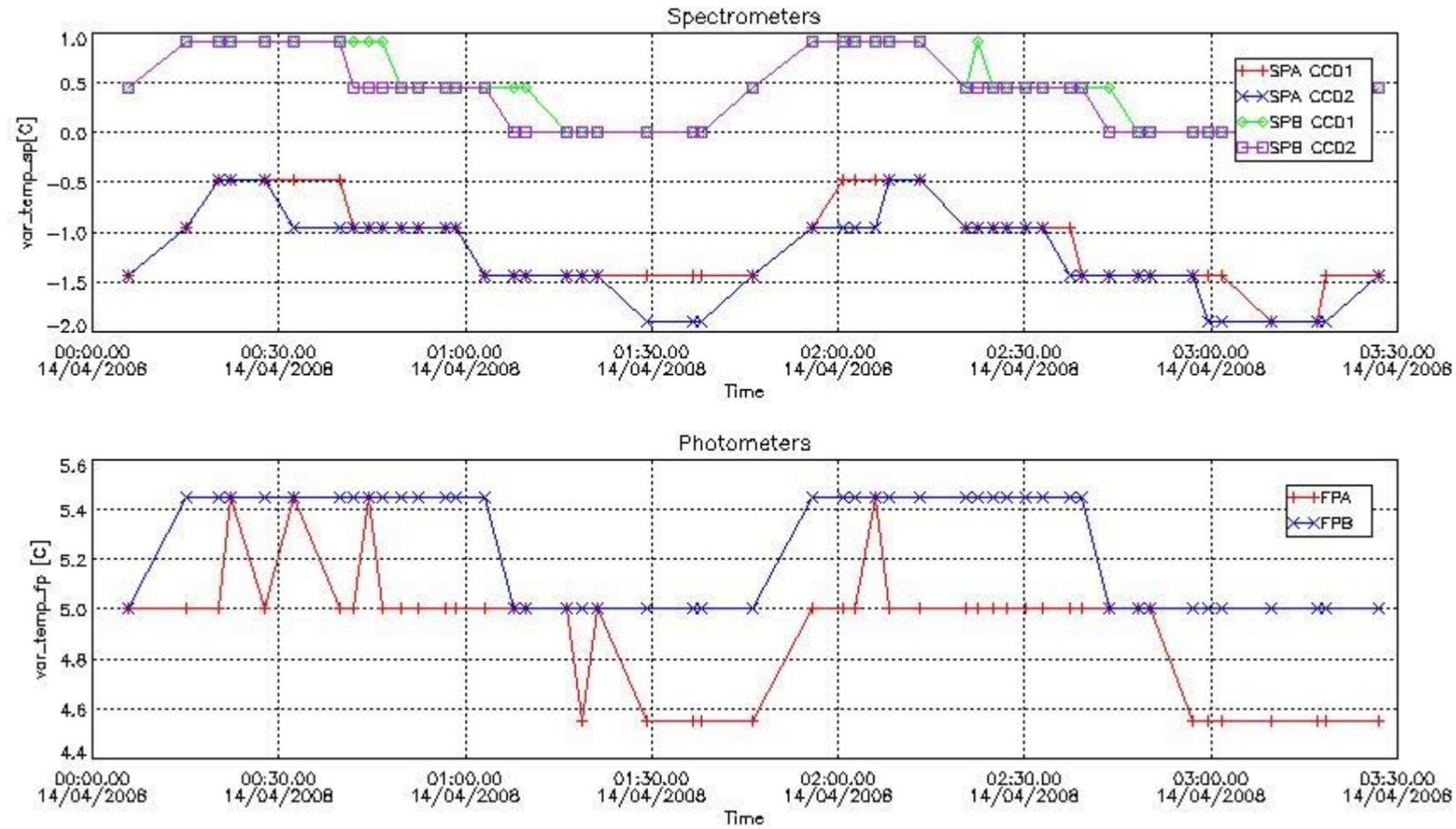
UTC start time	Star name	Star ID	Orbit
14-APR-2008 00:25:30	GamGru	172	32005
14-APR-2008 23:53:59	GamGru	172	32019

### 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_1PNPDE20080414_000545_000000352067_00388_32005_0445.N1	14-APR-2008 00:05:45	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	32005	No
2	GOM_TRA_1PNPDE20080414_001513_000000442067_00388_32005_0446.N1	14-APR-2008 00:15:13	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	32005	No
3	GOM_TRA_1PNPDE20080414_002011_000000432067_00388_32005_0569.N1	14-APR-2008 00:20:11	Dark	42.500	142	49Del Cap	2.8500	8900.0	85	32005	No
4	GOM_TRA_1PNPDE20080414_002212_000000412067_00388_32005_0570.N1	14-APR-2008 00:22:12	Dark	41.000	18	24Alp PsA	1.1660	9700.0	82	32005	No
5	GOM_TRA_1PNPDE20080414_002737_000000392067_00388_32005_0571.N1	14-APR-2008 00:27:37	Dark	38.500	31	Alp Gru	1.7340	15200.	77	32005	No
6	GOM_TRA_1PNPDE20080414_003230_000000402067_00389_32006_0572.N1	14-APR-2008 00:32:30	Dark	40.000	45	Alp Pav	1.9400	26000.	80	32006	No
7	GOM_TRA_1PNPDE20080414_003954_000000392067_00389_32006_0573.N1	14-APR-2008 00:39:54	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	32006	No
8	GOM_TRA_1PNPDE20080414_004159_000000402067_00389_32006_0574.N1	14-APR-2008 00:41:59	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	32006	No
9	GOM_TRA_1PNPDE20080414_004425_000000432067_00389_32006_0575.N1	14-APR-2008 00:44:25	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	32006	No

10	GOM_TRA_1PNPDE20080414_004639_000000372067_00389_32006_0576.N1	14-APR-2008 00:46:39	Straylight	37.000	20	Bet Cru	1.2530	30000.	74	32006	No
11	GOM_TRA_1PNPDE20080414_004935_000000382067_00389_32006_0577.N1	14-APR-2008 00:49:35	Straylight	37.500	64	Gam Cen	2.2000	10600.	75	32006	No
12	GOM_TRA_1PNPDE20080414_005221_000000392067_00389_32006_0578.N1	14-APR-2008 00:52:21	Straylight	38.500	123	lot Cen	2.7500	10200.	77	32006	No
13	GOM_TRA_1PNPDE20080414_005645_000000402067_00389_32006_0579.N1	14-APR-2008 00:56:45	Tw_i_and_stray	39.500	106	9Bet Crv	2.6480	5600.0	79	32006	No
14	GOM_TRA_1PNPDE20080414_005835_000000482067_00389_32006_0580.N1	14-APR-2008 00:58:35	Bright	47.500	100	4Gam Crv	2.5800	13100.	95	32006	No
15	GOM_TRA_1PNPDE20080414_010304_000000382067_00389_32006_0581.N1	14-APR-2008 01:03:04	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	32006	No
16	GOM_TRA_1PNPDE20080414_010748_000000362067_00389_32006_0582.N1	14-APR-2008 01:07:48	Bright	35.500	62	94Bet Leo	2.1360	9700.0	71	32006	No
17	GOM_TRA_1PNPDE20080414_010943_000000362067_00389_32006_0583.N1	14-APR-2008 01:09:43	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	32006	No
18	GOM_TRA_1PNPDE20080414_011620_000000362067_00389_32006_0584.N1	14-APR-2008 01:16:20	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	32006	No
19	GOM_TRA_1PNPDE20080414_011850_000000372067_00389_32006_0585.N1	14-APR-2008 01:18:50	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	32006	No
20	GOM_TRA_1PNPDE20080414_012108_000000332067_00389_32006_0586.N1	14-APR-2008 01:21:08	Bright	33.000	36	50Alp UMa	1.8000	6300.0	66	32006	No
21	GOM_TRA_1PNPDE20080414_012911_000000342067_00389_32006_0587.N1	14-APR-2008 01:29:11	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	32006	No
22	GOM_TRA_1PNPDE20080414_013635_000000522067_00389_32006_0588.N1	14-APR-2008 01:36:35	Bright	51.500	76	27Gam Cas	2.3000	30000.	103	32006	No
23	GOM_TRA_1PNPDE20080414_013754_000000352067_00389_32006_0589.N1	14-APR-2008 01:37:54	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	32006	No
24	GOM_TRA_1PNPDE20080414_014621_000000372067_00389_32006_0590.N1	14-APR-2008 01:46:21	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	32006	No
25	GOM_TRA_1PNPDE20080414_015549_000000422067_00389_32006_0591.N1	14-APR-2008 01:55:49	Dark	42.000	162	34Alp Aqr	2.9440	5350.0	84	32006	No
26	GOM_TRA_1PNPDE20080414_020047_000000422067_00389_32006_0714.N1	14-APR-2008 02:00:47	Dark	42.000	142	49Del Cap	2.8500	8900.0	84	32006	No
27	GOM_TRA_1PNPDE20080414_020248_000000452067_00389_32006_0715.N1	14-APR-2008 02:02:48	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	32006	No
28	GOM_TRA_1PNPDE20080414_020607_000000372067_00389_32006_0716.N1	14-APR-2008 02:06:07	Dark	36.500	172	Gam Gru	3.0030	13100.	73	32006	No
29	GOM_TRA_1PNPDE20080414_020813_000000392067_00389_32006_0717.N1	14-APR-2008 02:08:13	Dark	39.000	31	Alp Gru	1.7340	15200.	78	32006	No
30	GOM_TRA_1PNPDE20080414_021307_000000392067_00390_32007_0718.N1	14-APR-2008 02:13:07	Dark	39.000	45	Alp Pav	1.9400	26000.	78	32007	No
31	GOM_TRA_1PNPDE20080414_022031_000000392067_00390_32007_0719.N1	14-APR-2008 02:20:31	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	32007	No
32	GOM_TRA_1PNPDE20080414_022235_000000382067_00390_32007_0720.N1	14-APR-2008 02:22:35	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	32007	No
33	GOM_TRA_1PNPDE20080414_022501_000000532067_00390_32007_0721.N1	14-APR-2008 02:25:01	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	32007	No
34	GOM_TRA_1PNPDE20080414_022715_000000482067_00390_32007_0722.N1	14-APR-2008 02:27:15	Straylight	47.500	20	Bet Cru	1.2530	30000.	95	32007	No
35	GOM_TRA_1PNPDE20080414_023011_000000382067_00390_32007_0723.N1	14-APR-2008 02:30:11	Straylight	37.500	64	Gam Cen	2.2000	10600.	75	32007	No
36	GOM_TRA_1PNPDE20080414_023257_000000392067_00390_32007_0724.N1	14-APR-2008 02:32:57	Straylight	39.000	123	lot Cen	2.7500	10200.	78	32007	No
37	GOM_TRA_1PNPDE20080414_023721_000000422067_00390_32007_0725.N1	14-APR-2008 02:37:21	Tw_i_and_stray	41.500	106	9Bet Crv	2.6480	5600.0	83	32007	No
38	GOM_TRA_1PNPDE20080414_023911_000000462067_00390_32007_0726.N1	14-APR-2008 02:39:11	Bright	45.500	100	4Gam Crv	2.5800	13100.	91	32007	No
39	GOM_TRA_1PNPDE20080414_024340_000000392067_00390_32007_0727.N1	14-APR-2008 02:43:40	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	32007	No
40	GOM_TRA_1PNPDE20080414_024824_000000362067_00390_32007_0728.N1	14-APR-2008 02:48:24	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	32007	No
41	GOM_TRA_1PNPDE20080414_025019_000000362067_00390_32007_0729.N1	14-APR-2008 02:50:19	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	32007	No
42	GOM_TRA_1PNPDE20080414_025656_000000362067_00390_32007_0730.N1	14-APR-2008 02:56:56	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	32007	No
43	GOM_TRA_1PNPDE20080414_025926_000000352067_00390_32007_0731.N1	14-APR-2008 02:59:26	Bright	35.000	87	64Gam UMa	2.4330	11000.	70	32007	No
44	GOM_TRA_1PNPDE20080414_030144_000000342067_00390_32007_0732.N1	14-APR-2008 03:01:44	Bright	33.500	36	50Alp UMa	1.8000	6300.0	67	32007	No
45	GOM_TRA_1PNPDE20080414_030947_000000342067_00390_32007_0733.N1	14-APR-2008 03:09:47	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	32007	No
46	GOM_TRA_1PNPDE20080414_031711_000000352067_00390_32007_0867.N1	14-APR-2008 03:17:11	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	32007	No
47	GOM_TRA_1PNPDE20080414_031830_000000352067_00390_32007_0868.N1	14-APR-2008 03:18:30	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	32007	No
48	GOM_TRA_1PNPDE20080414_032657_000000442067_00390_32007_0869.N1	14-APR-2008 03:26:57	Bright	44.000	164	44Eta Peg	2.9480	5400.0	88	32007	No

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



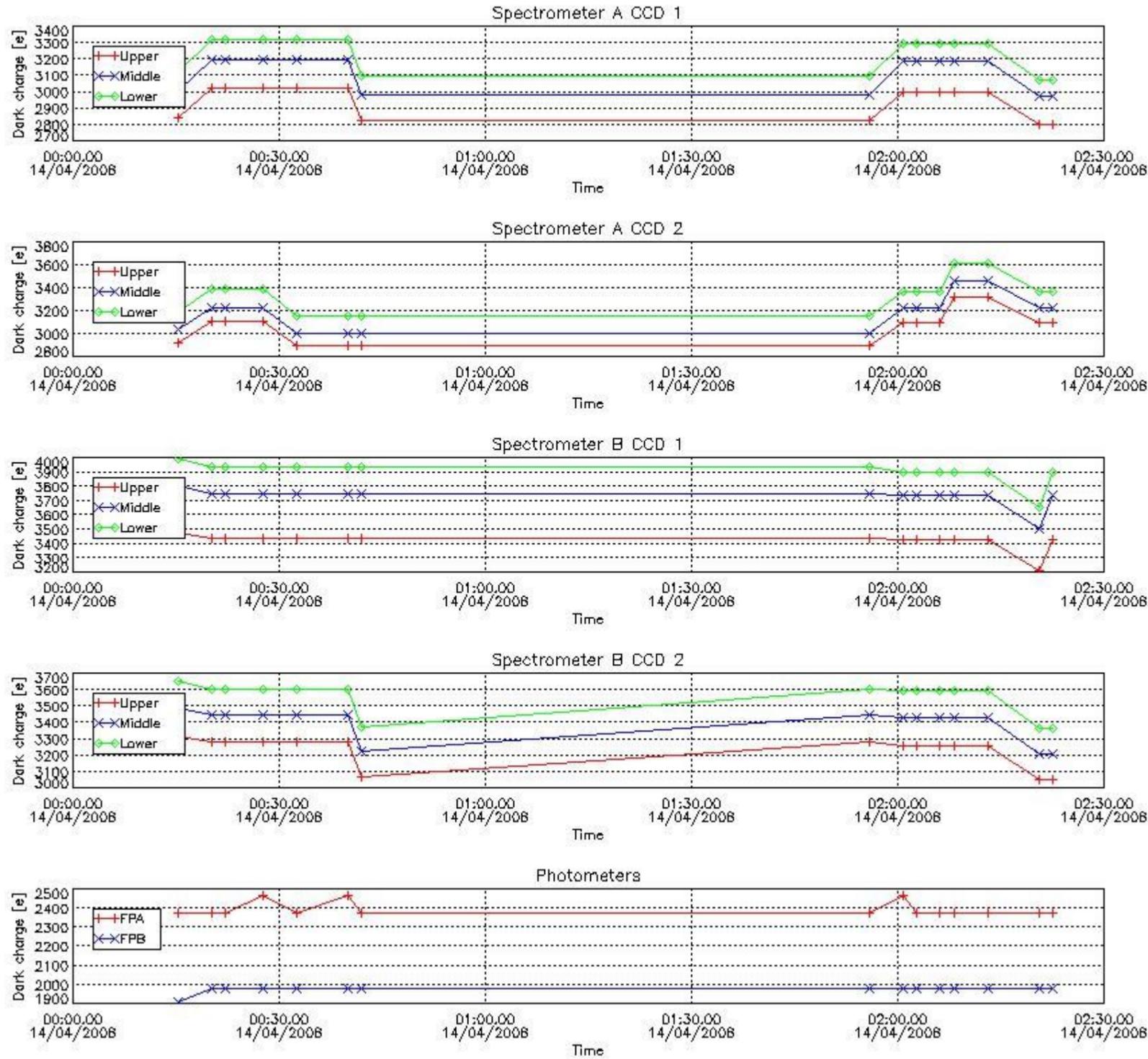
#### 4. Overview of dark signal processing per product

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



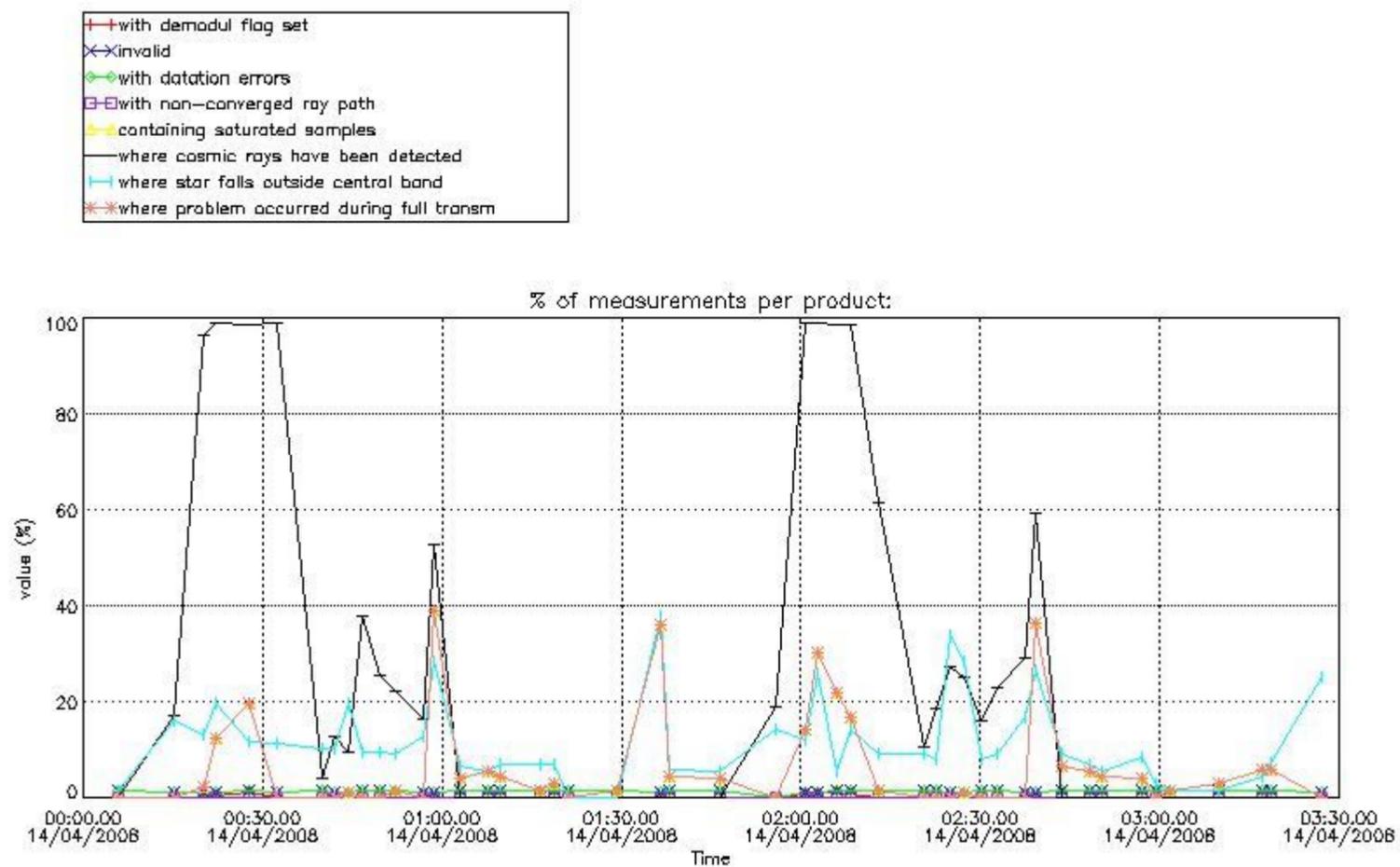
## 5. Demodulation flag and quality information monitoring

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.

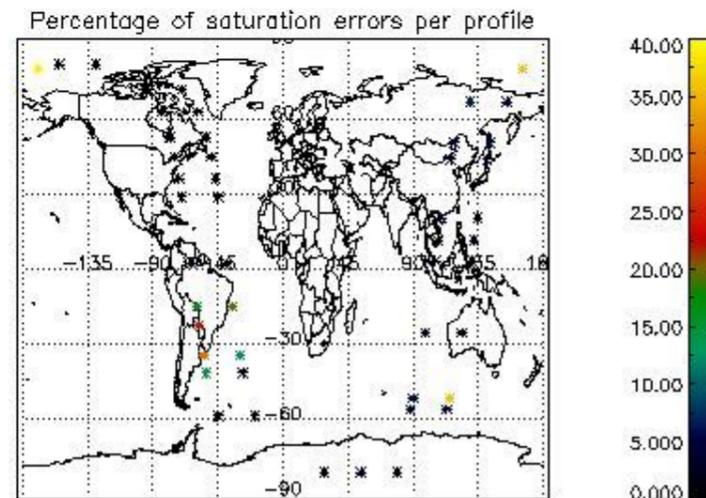
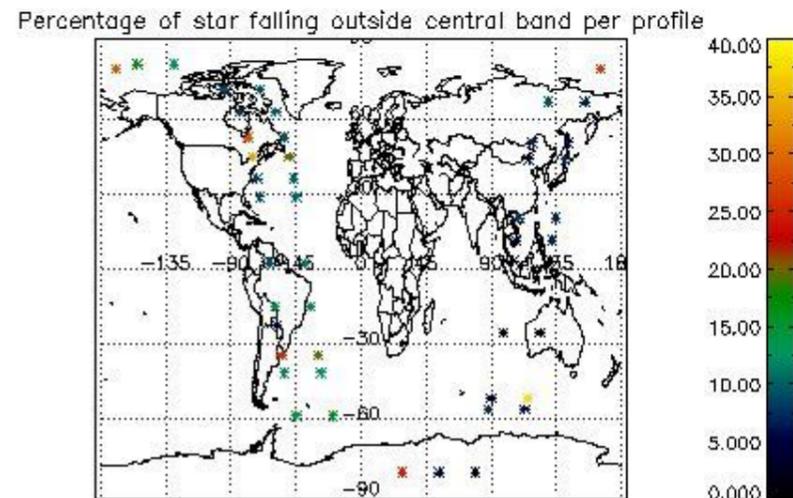
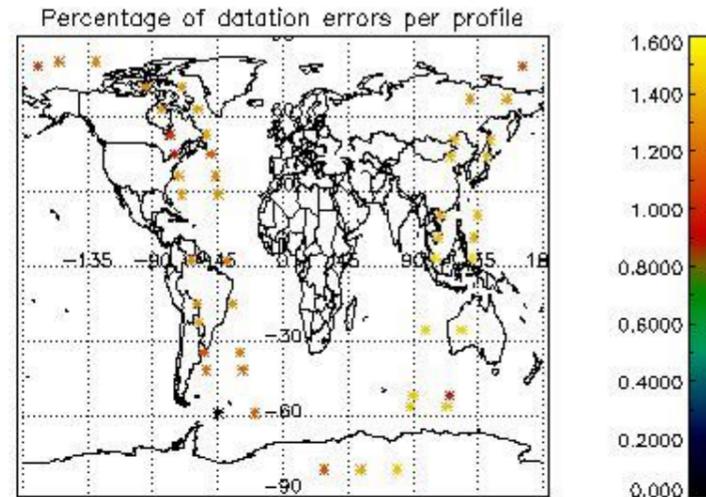
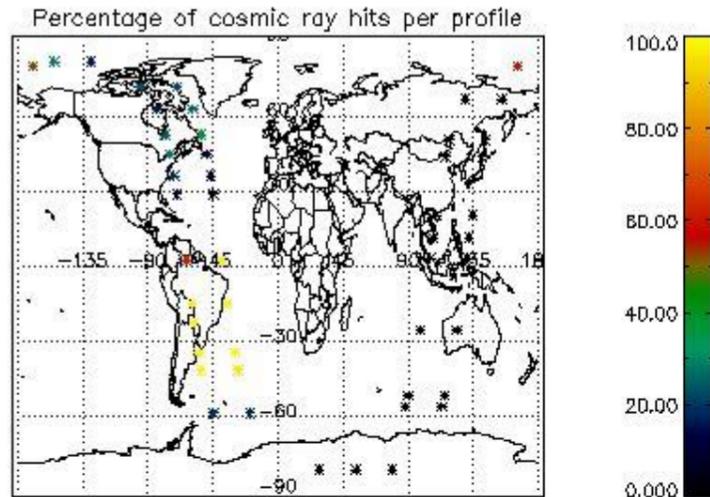
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.2500 %
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)



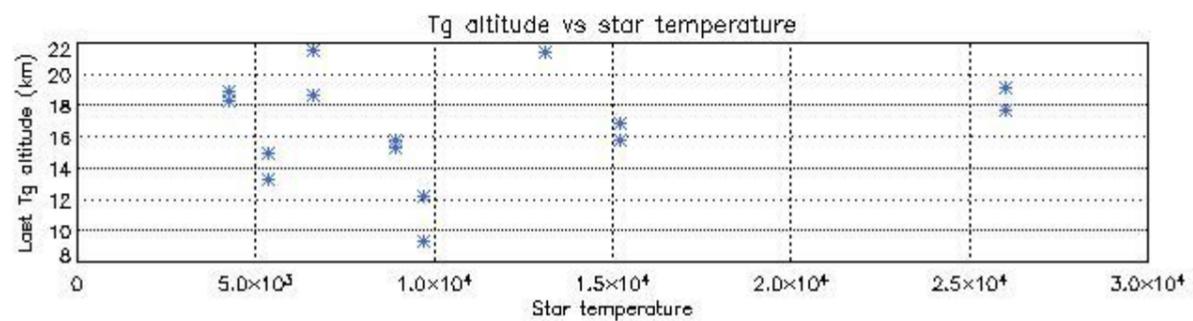
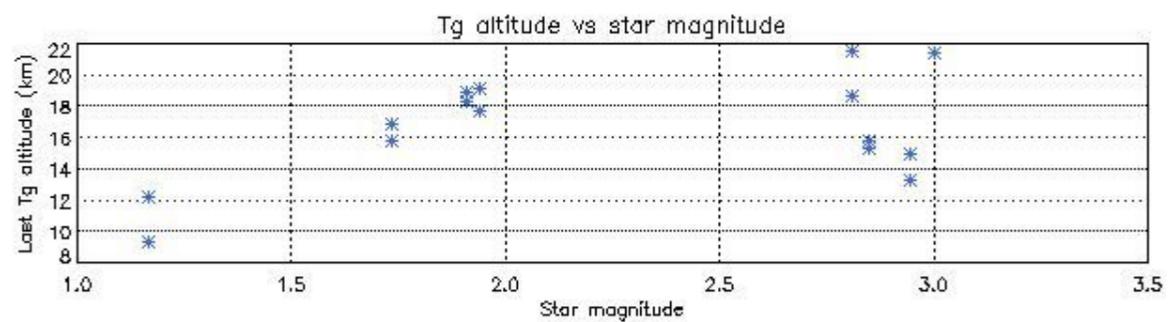
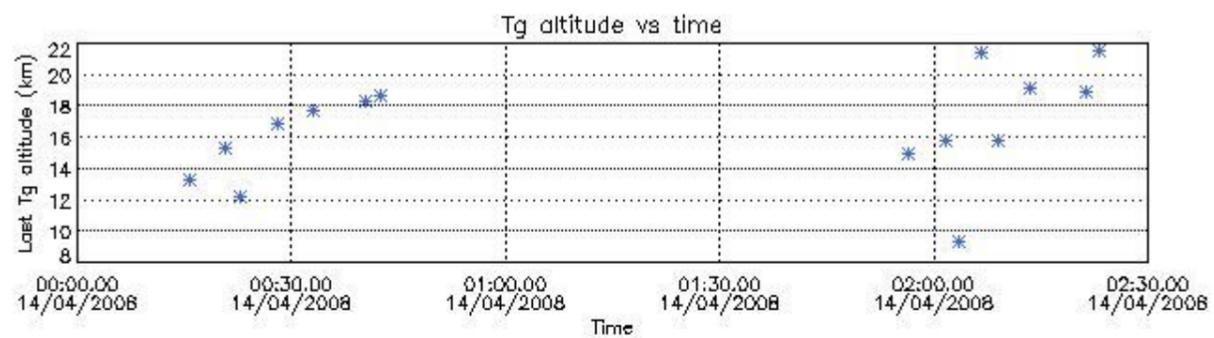
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.592	19.559	NaN
St. deviation:	3.3316	5.9599	NaN
Maximum:	21.504	26.413	NaN
Minimum:	9.3616	3.8104	NaN
Number of data:	15.000	23.000	NaN

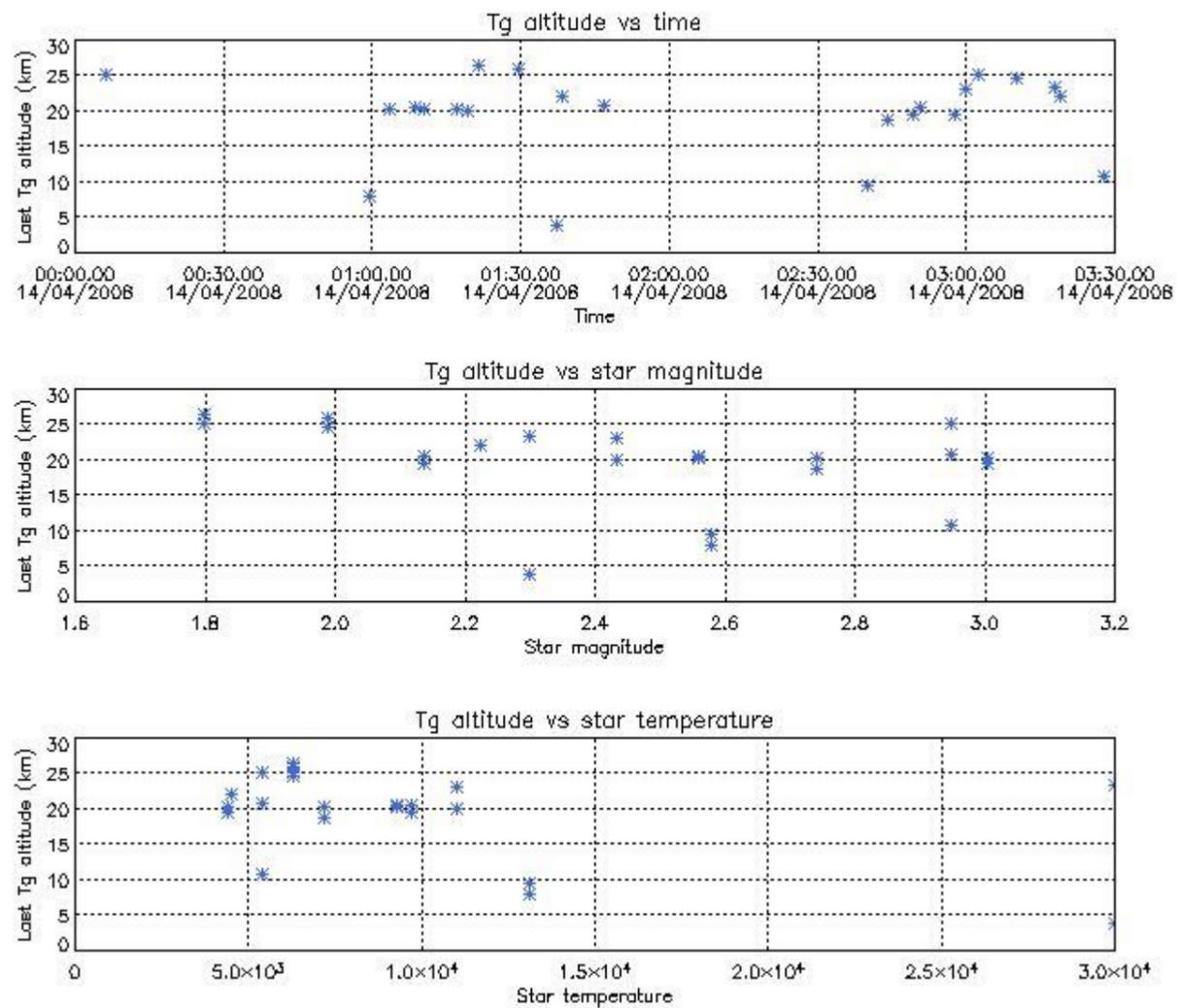
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

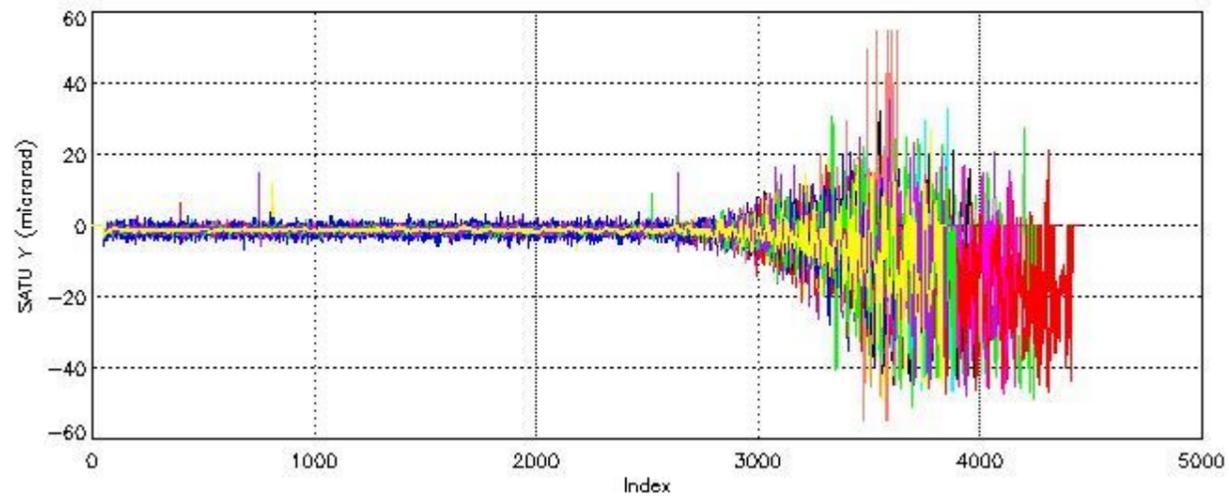
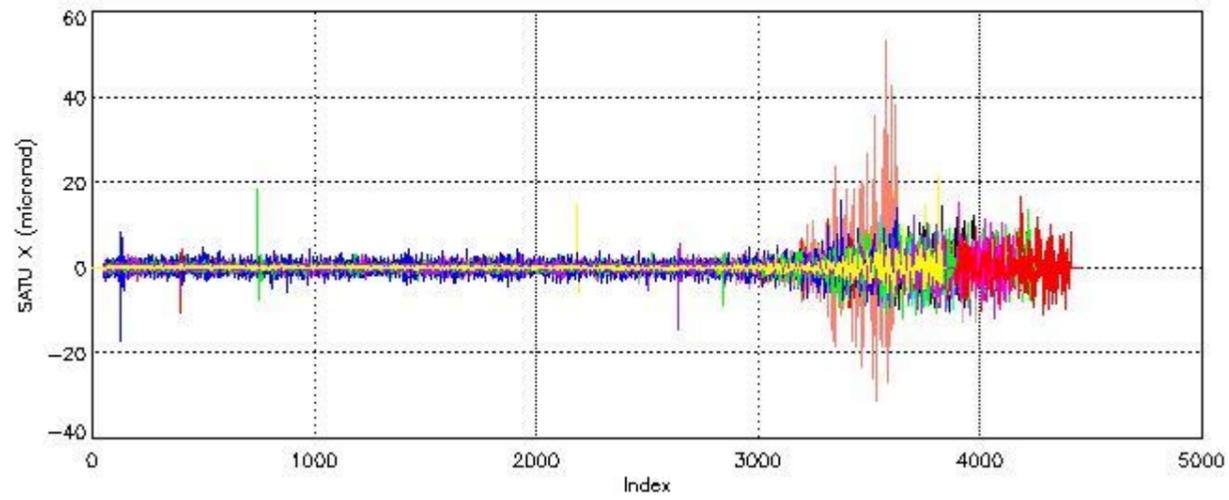


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.028465	-1.3249	-0.0043728	-1.3817
St. deviation:	0.69939	0.80700	0.77489	0.89418
Maximum:	18.400	14.600	4.1000	3.0000
Minimum:	-17.300	-6.6000	-4.5000	-5.7000

Number of data:	13300.	13300.	18950.	18950.
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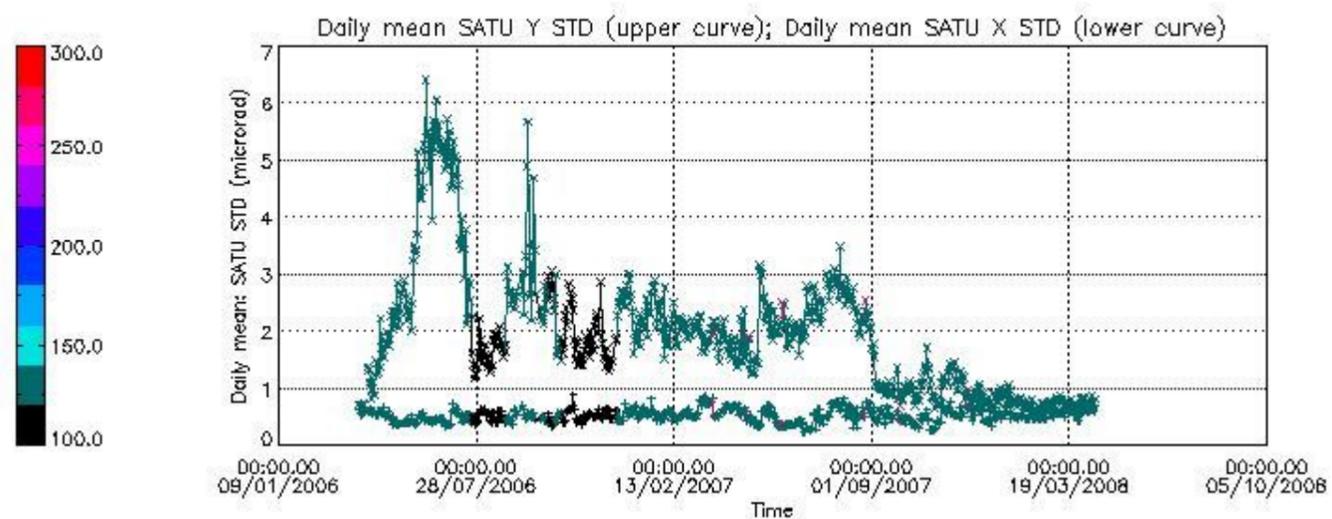
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

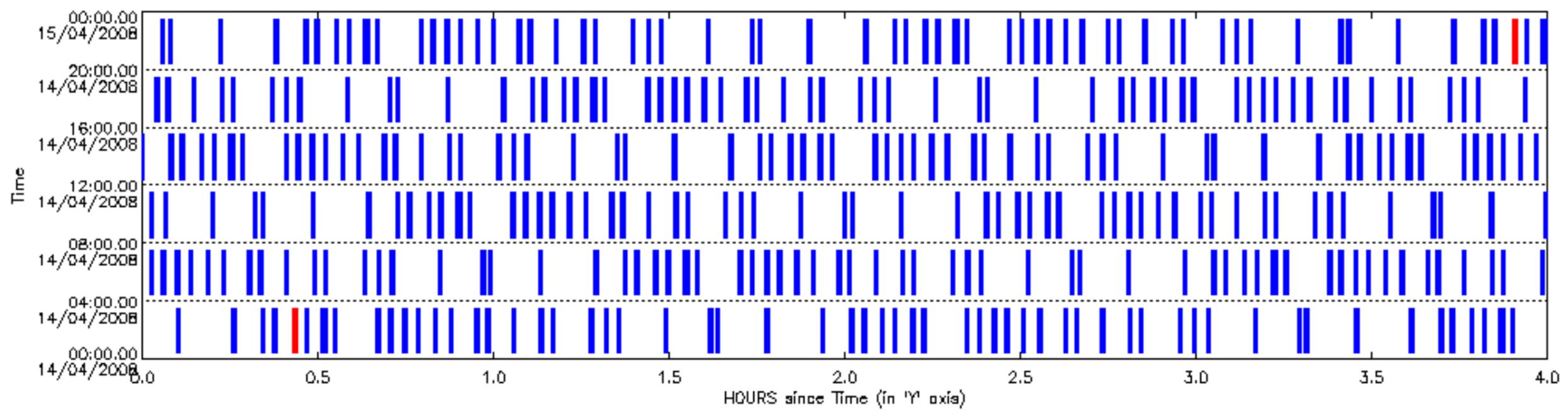
Lower curve: STD of SATU X axis

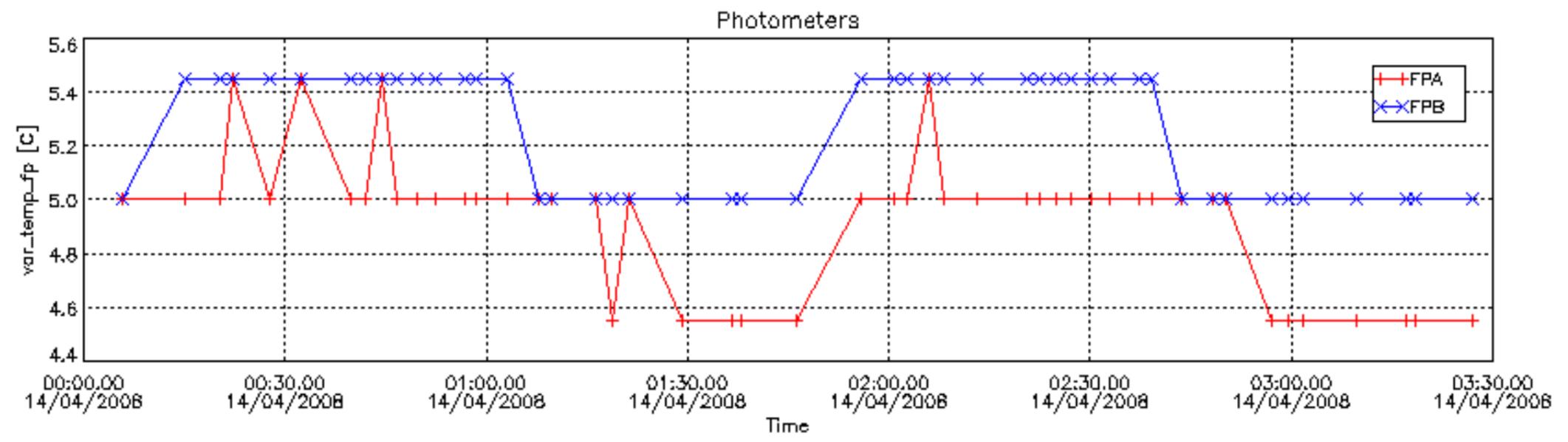
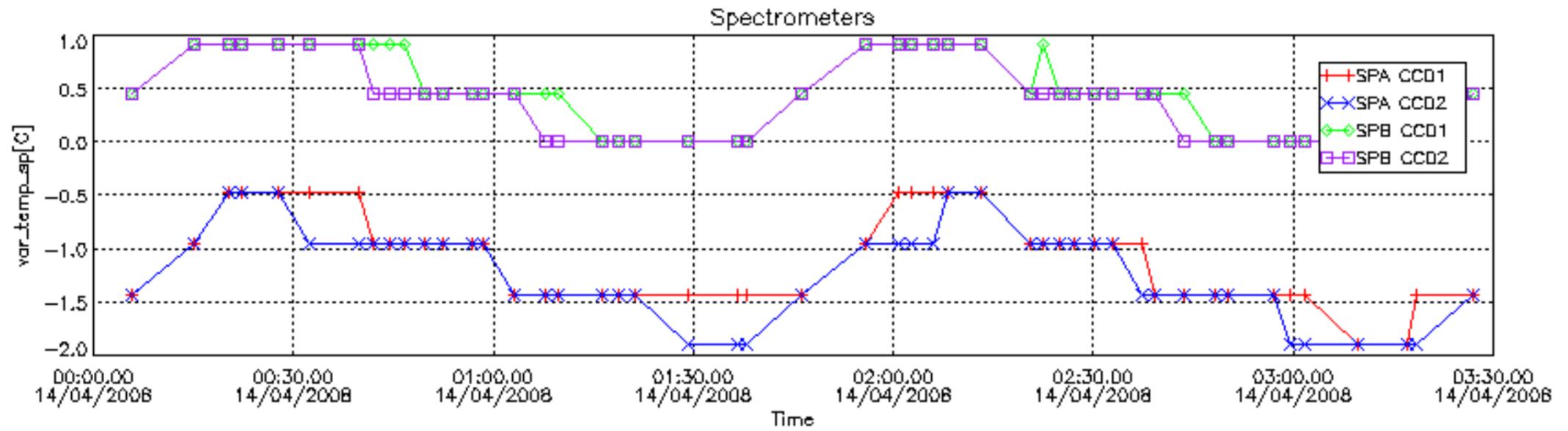


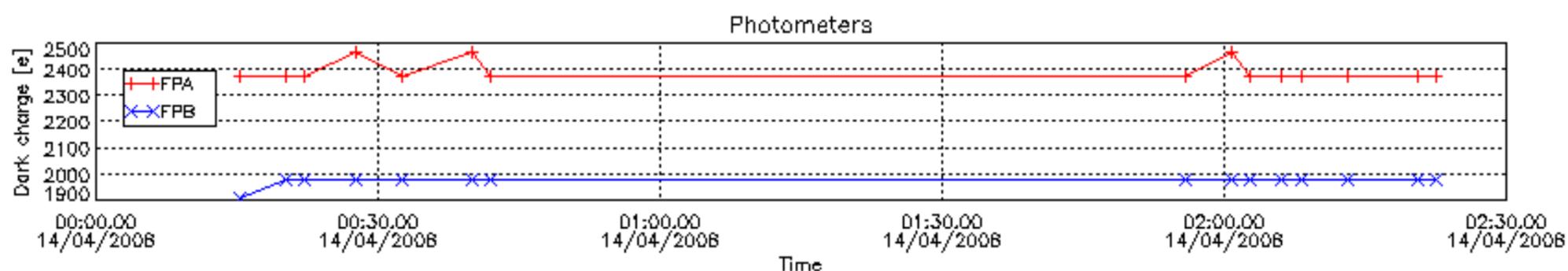
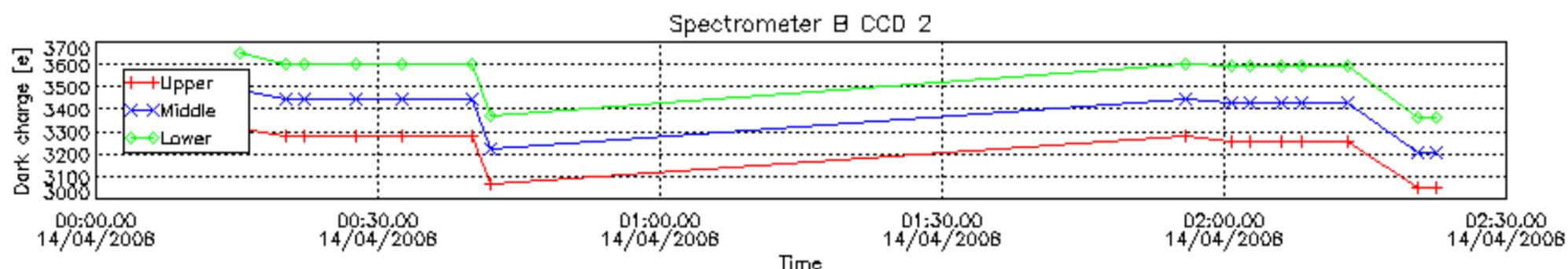
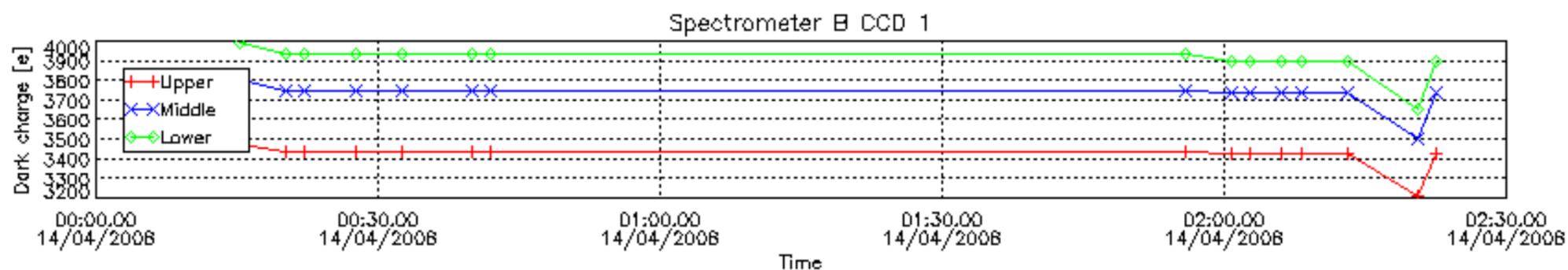
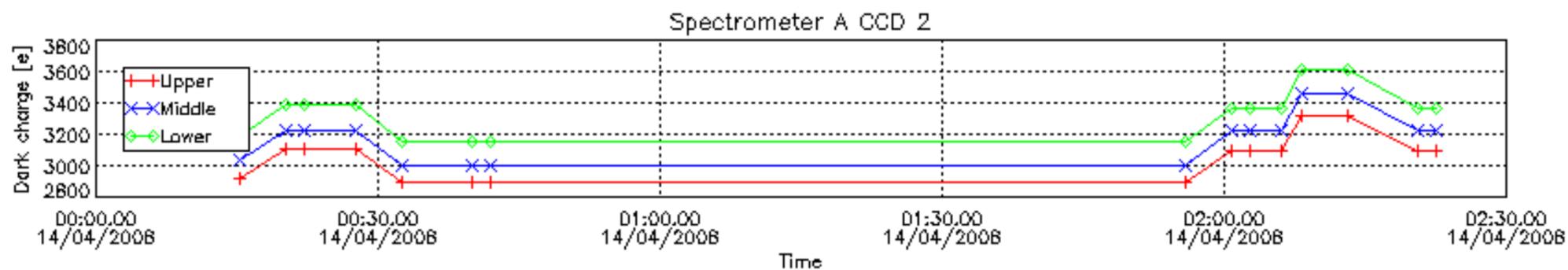
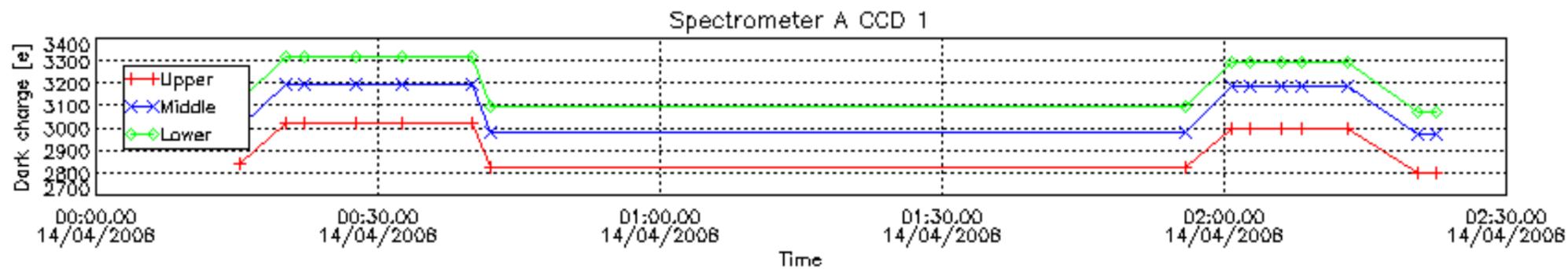
### 8. Auxiliary Data Files used for the production reported in section 2.4

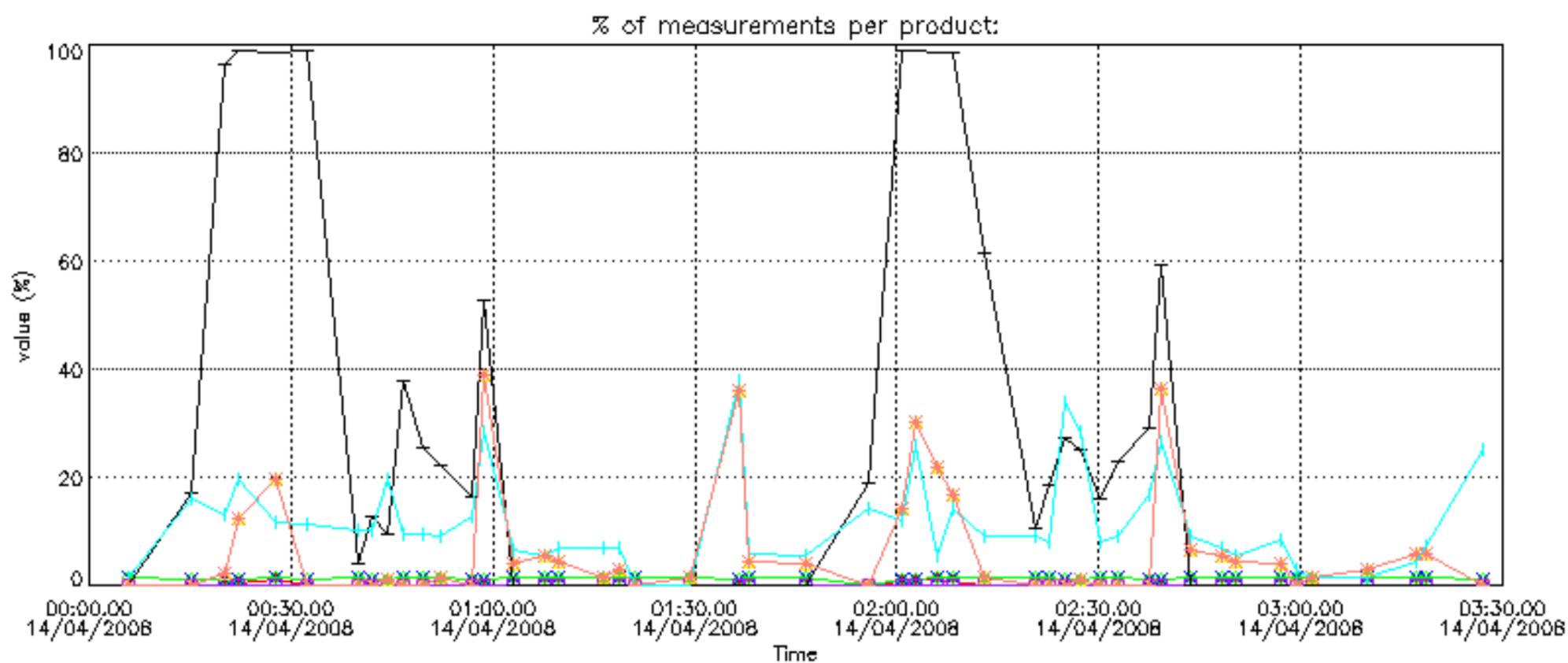
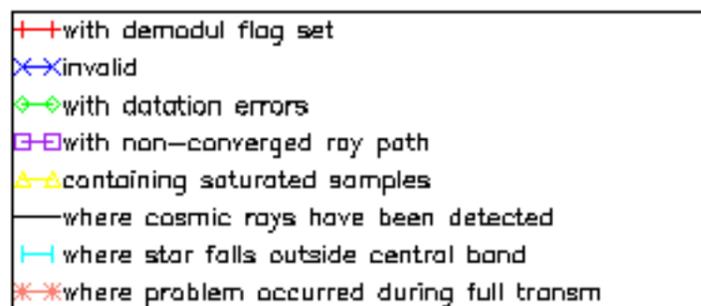
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-APR-2008 00:05:45
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-APR-2008 00:05:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-APR-2008 00:05:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-APR-2008 00:05:45
ECMWF_FILE	AUX_ECF_AXNECM20080413_072113_20080413_210000_20080414_090000	1	14-APR-2008 00:05:45
ECMWF_FILE	AUX_ECF_AXNECM20080413_190114_20080414_030000_20080414_150000	46	14-APR-2008 03:17:11
OPTIONAL_ECMWF_FILE	MISSING	1	14-APR-2008 00:05:45
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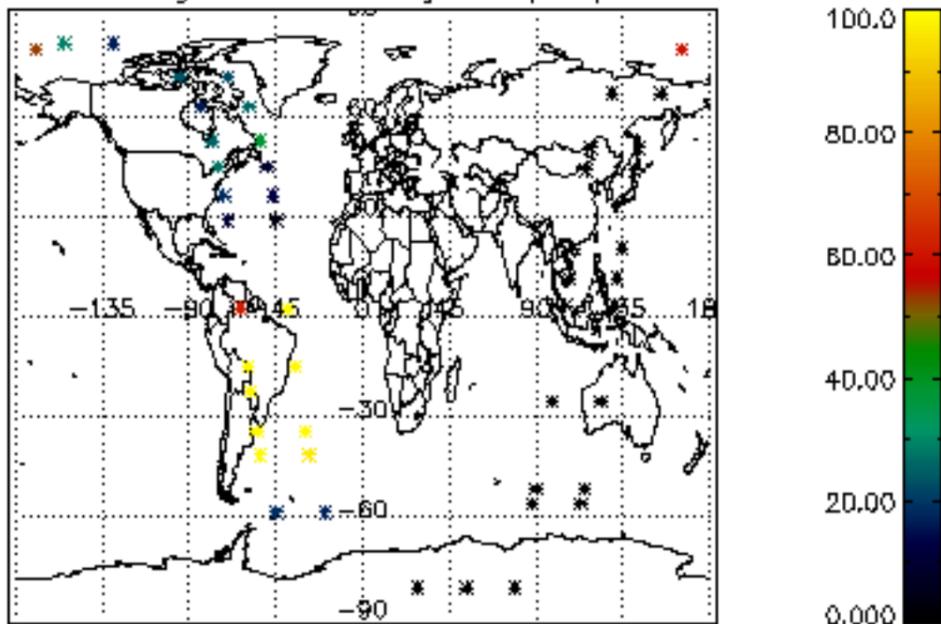




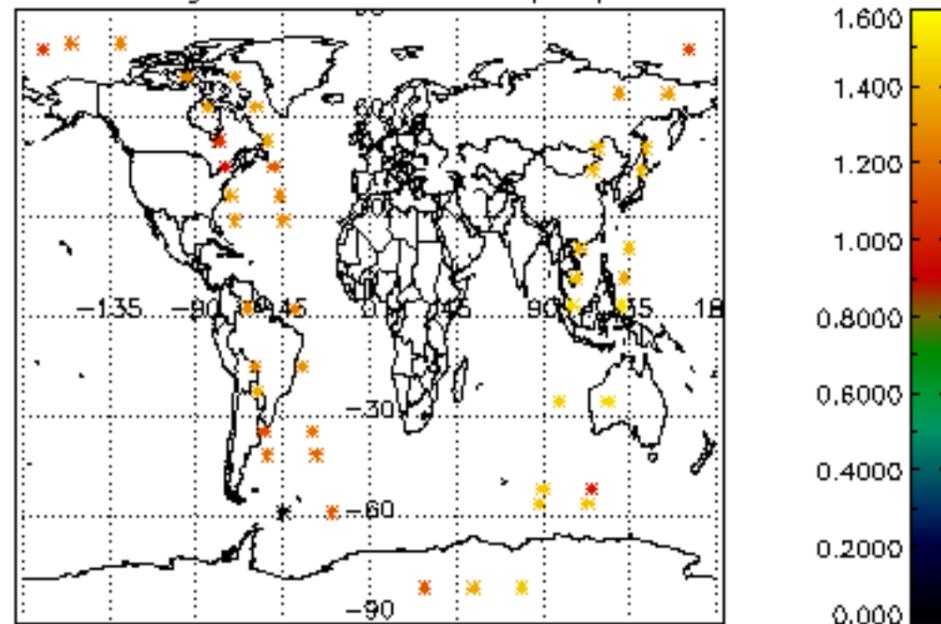




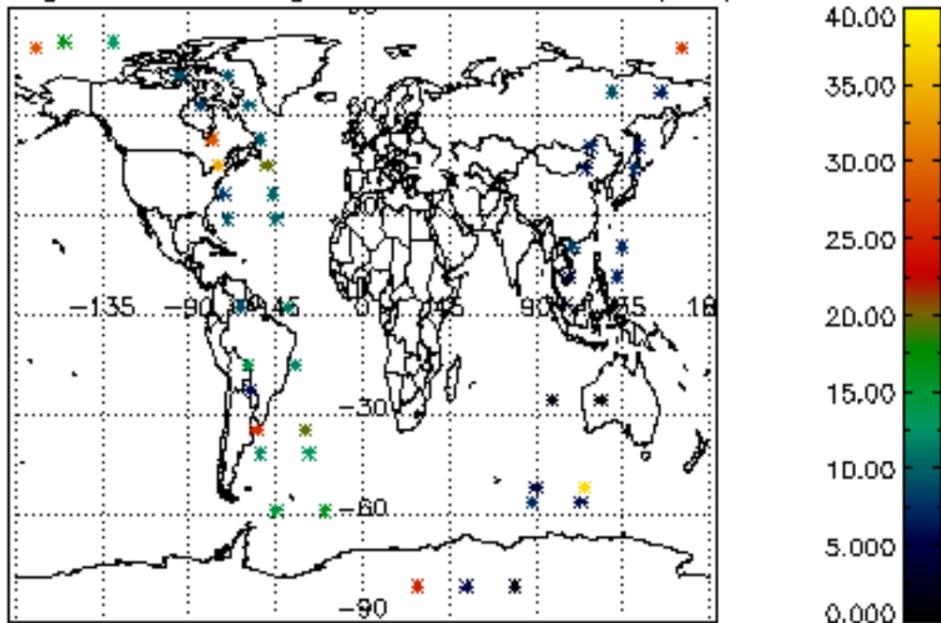
Percentage of cosmic ray hits per profile



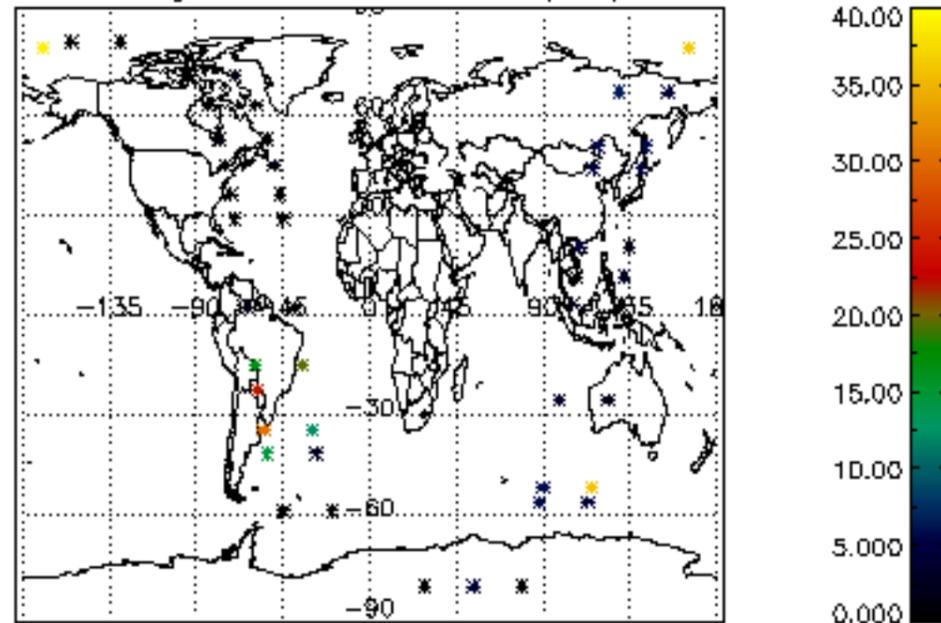
Percentage of datation errors per profile



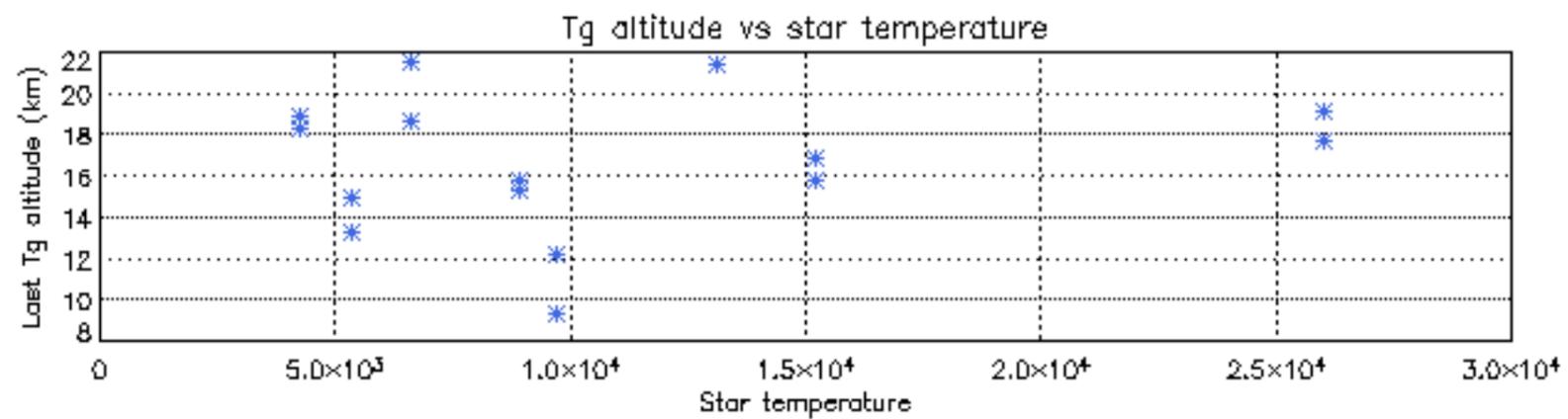
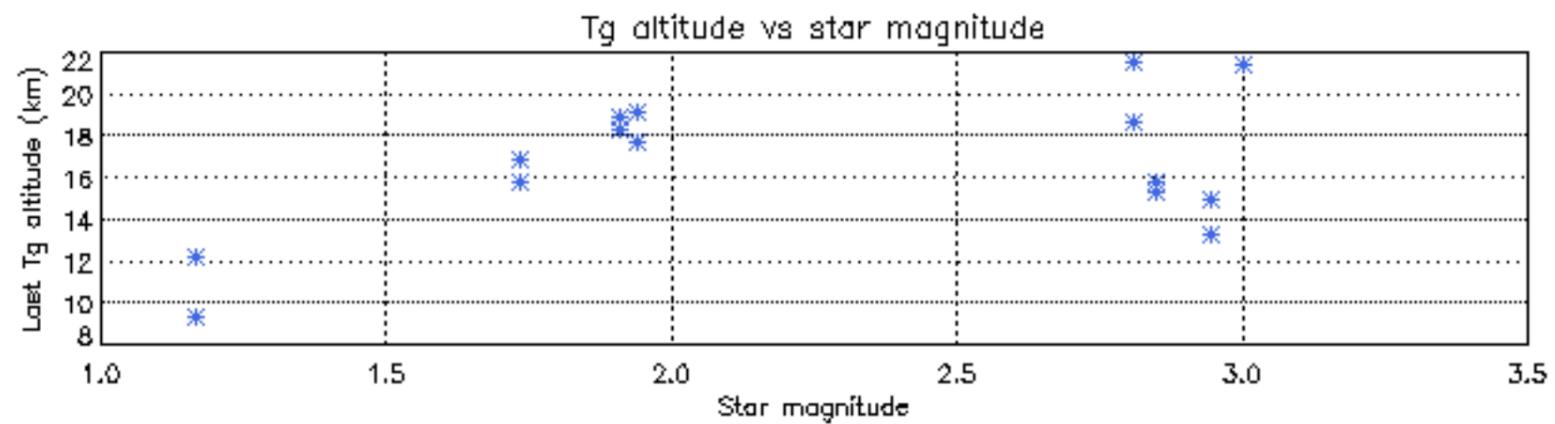
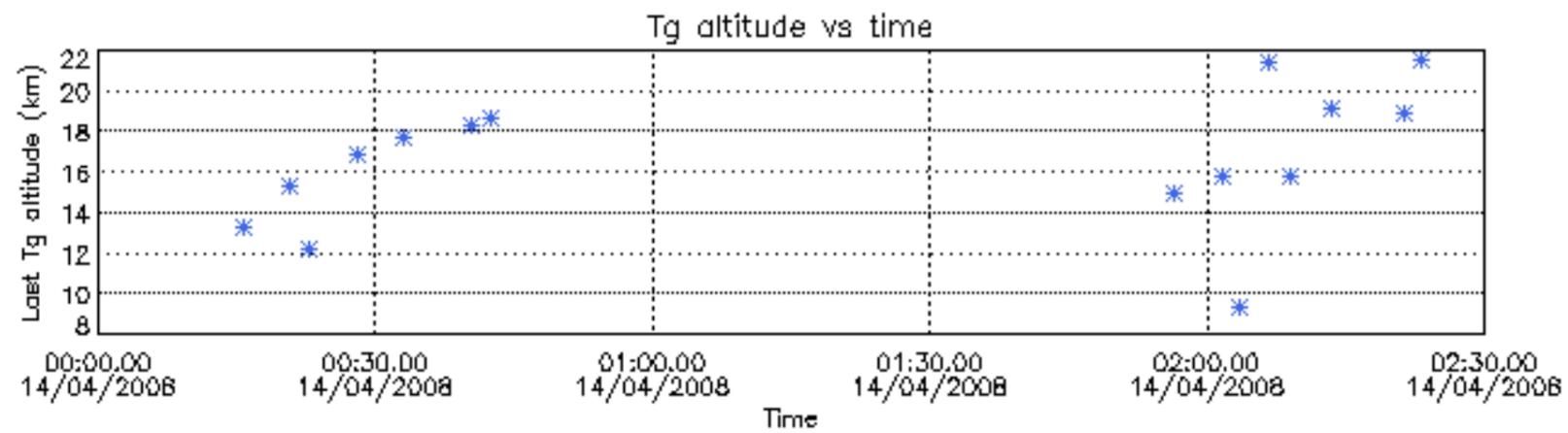
Percentage of star falling outside central band per profile



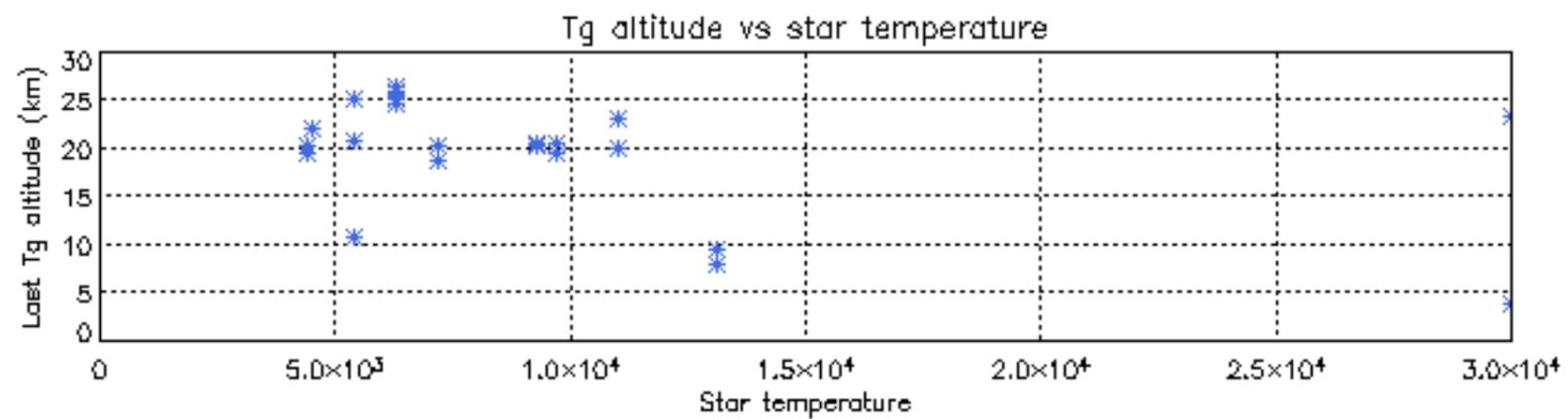
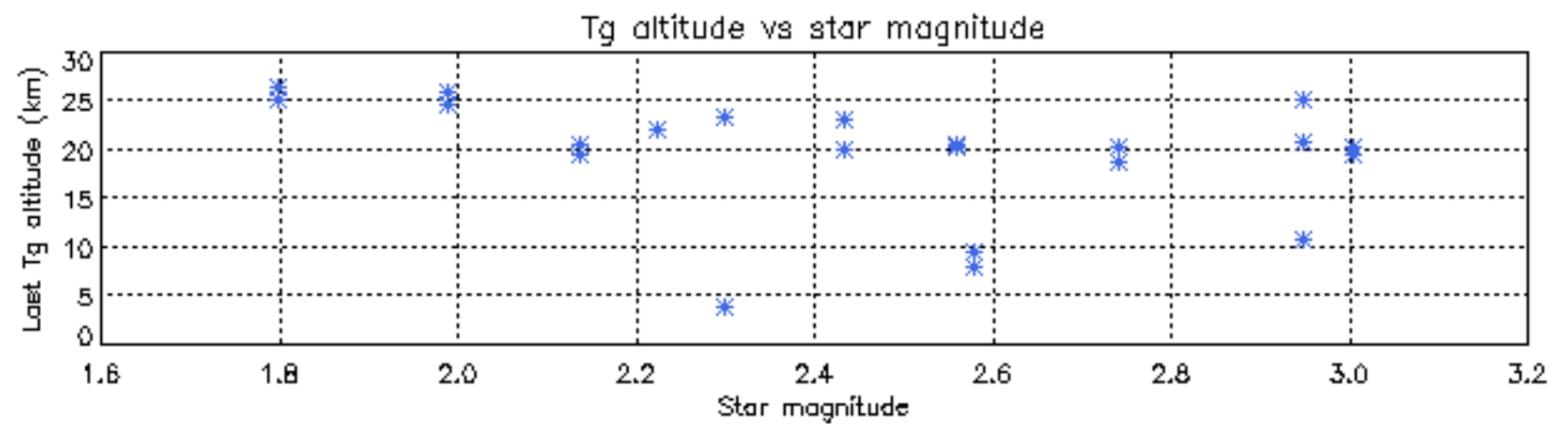
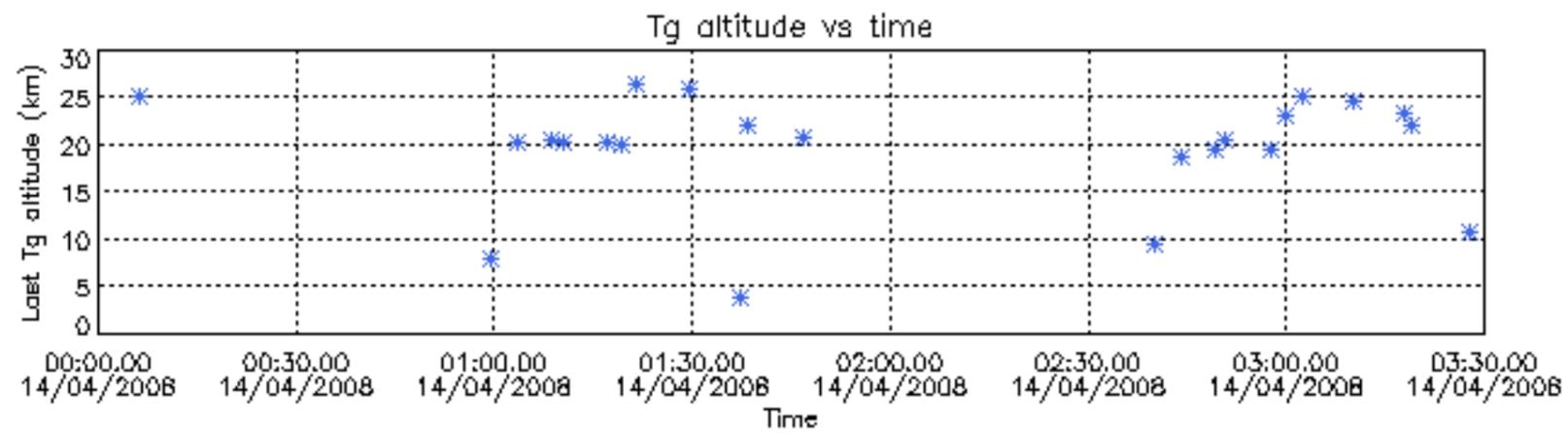
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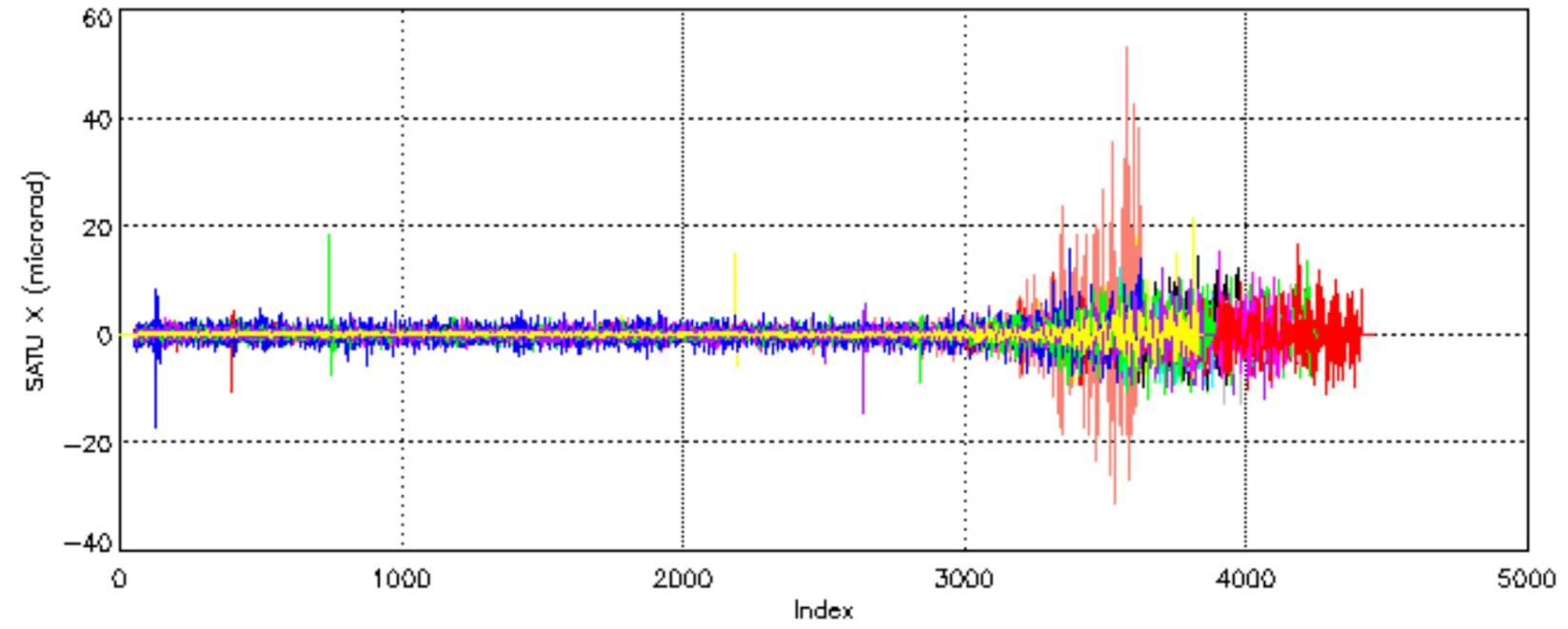


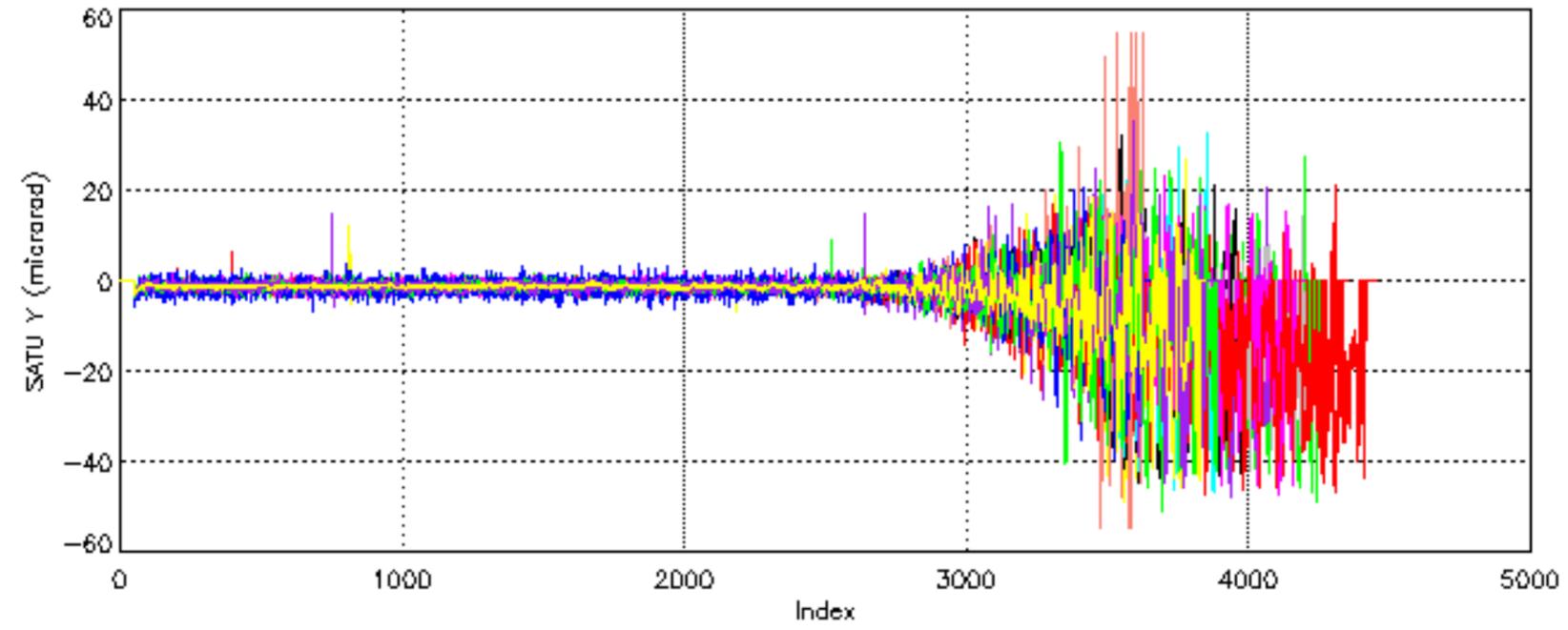
Tangent altitude at which the star is lost

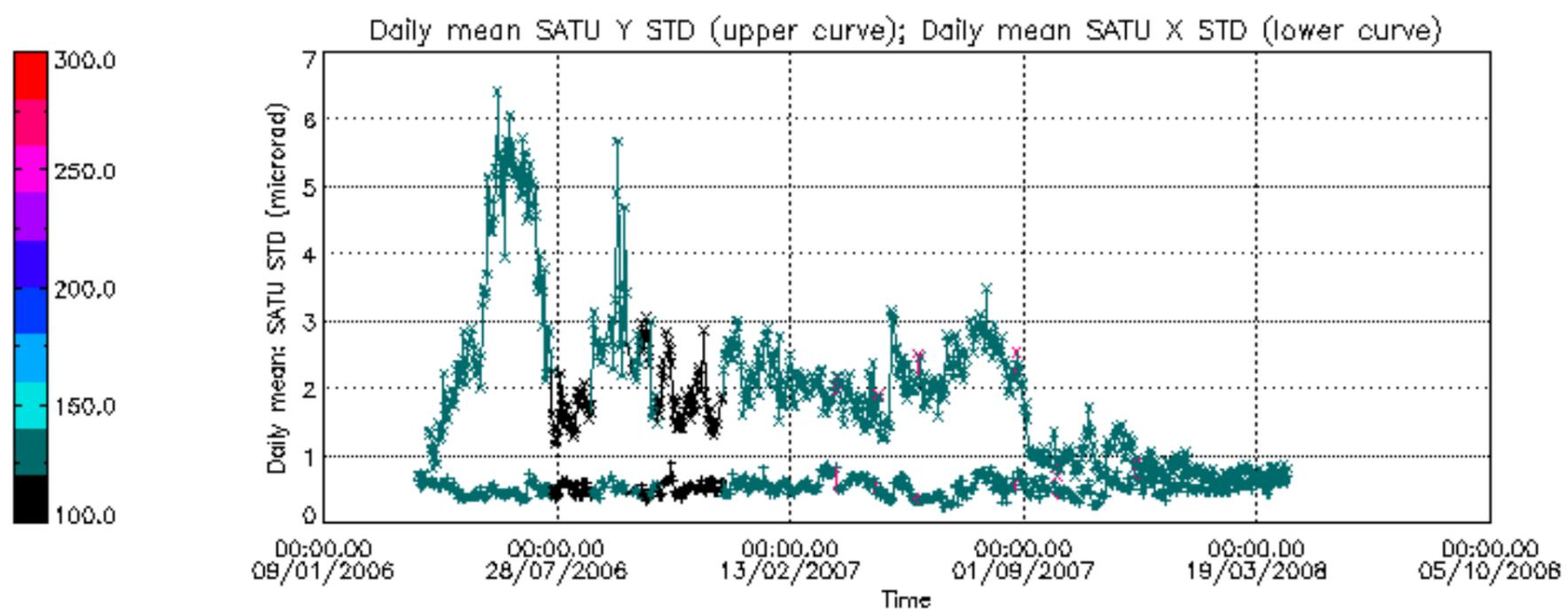


Tangent altitude at which the star is lost









































































































































































































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 20; 6576.4; 23-APR-2008 17:44:02; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;32144  
 21; 6706.6; 23-APR-2008 17:46:13; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32144  
 22; 6839.7; 23-APR-2008 17:48:26; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;32144  
 23; 6949.5; 23-APR-2008 17:50:15; Dark ; 38.0; 20; Bet Cru ; 1.25; 30000;occ; 76; 0;32144  
 24; 7039.1; 23-APR-2008 17:51:45; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32144

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 5; 1637.0; 23-APR-2008 18:02:19; Bright; 37.0; 163; 7Del Crv ; 2.94; 11000;occ; 74; 0;32145  
 6; 1883.8; 23-APR-2008 18:06:26; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32145  
 7; 2093.3; 23-APR-2008 18:09:55; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;32145  
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 10; 2697.4; 23-APR-2008 18:19:59; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;32145  
 11; 2822.1; 23-APR-2008 18:22:04; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;32145  
 12; 2976.0; 23-APR-2008 18:24:38; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;32145  
 13; 3443.9; 23-APR-2008 18:32:26; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32145  
 14; 3900.5; 23-APR-2008 18:40:03; Bright; 51.5; 110; 37Del Cas ; 2.68; 8900;occ; 103; 0;32145  
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 22; 6576.7; 23-APR-2008 19:24:39; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;32145  
 23; 6706.9; 23-APR-2008 19:26:49; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32145  
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 26; 7039.4; 23-APR-2008 19:32:21; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32145

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 13; 3443.9; 23-APR-2008 20:13:02; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32146  
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 17; 5500.3; 23-APR-2008 20:47:18; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;32146  
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1; 1013.8; 24-APR-2008 20:41:31; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 9;32161  
2; 1095.2; 24-APR-2008 20:42:52; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;32161  
3; 1234.1; 24-APR-2008 20:45:11; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;32161  
4; 1498.7; 24-APR-2008 20:49:36; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;32161  
5; 1703.3; 24-APR-2008 20:53:00; Bright; 40.0; 15; 67Alp Vir ; 0.98; 28000;occ; 80; 0;32161  
6; 1885.4; 24-APR-2008 20:56:02; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32161  
7; 2093.3; 24-APR-2008 20:59:30; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;32161  
8; 2181.5; 24-APR-2008 21:00:58; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32161  
9; 2313.8; 24-APR-2008 21:03:11; Bright; 36.5; 96; 68Del Leo ; 2.56; 9300;occ; 73; 0;32161

10;	2564.7;	24-APR-2008	21:07:22;	Bright;	36.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	72;	0;	32161
11;	2702.0;	24-APR-2008	21:09:39;	Bright;	35.5;	174;	52Psi UMa	;	3.00;	4400;occ;	71;	0;	32161
12;	2823.3;	24-APR-2008	21:11:40;	Bright;	34.5;	87;	64Gam UMa	;	2.43;	11000;occ;	69;	0;	32161
13;	2978.8;	24-APR-2008	21:14:16;	Bright;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	32161
14;	3444.2;	24-APR-2008	21:22:01;	Bright;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	32161
15;	3903.9;	24-APR-2008	21:29:41;	Bright;	32.5;	110;	37Del Cas	;	2.68;	8900;occ;	65;	0;	32161
16;	3990.9;	24-APR-2008	21:31:08;	Bright;	32.5;	68;	18Alp Cas	;	2.22;	4500;occ;	65;	0;	32161

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1;	-529.8;	24-APR-2008	21:56:23;	Dark	;	41.5;	18;	24Alp PsA	;	1.17;	9700;occ;	83;	0;	32161
2;	-329.7;	24-APR-2008	21:59:43;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	32161
3;	-189.9;	24-APR-2008	22:02:03;	Dark	;	43.0;	31;	Alp Gru	;	1.73;	15200;occ;	86;	0;	32161
4;	-17.3;	24-APR-2008	22:04:55;	Dark	;	41.0;	148;	Alp Tuc	;	2.88;	4100;occ;	82;	0;	32161
5;	129.5;	24-APR-2008	22:07:22;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	32162
6;	547.1;	24-APR-2008	22:14:20;	Dark	;	39.5;	43;	Alp TrA	;	1.91;	4250;occ;	79;	0;	32162
7;	677.4;	24-APR-2008	22:16:30;	Dark	;	37.5;	134;	Bet TrA	;	2.81;	6600;occ;	75;	0;	32162
8;	809.1;	24-APR-2008	22:18:42;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	106;	0;	32162
9;	915.8;	24-APR-2008	22:20:29;	Dark	;	41.5;	20;	Bet Cru	;	1.25;	30000;occ;	83;	0;	32162
10;	1009.7;	24-APR-2008	22:22:02;	Dark	;	41.5;	78;	Alp Lup	;	2.30;	28000;occ;	83;	0;	32162
11;	1095.3;	24-APR-2008	22:23:28;	Dark	;	40.5;	64;	Gam Cen	;	2.20;	10600;occ;	81;	0;	32162
12;	1234.3;	24-APR-2008	22:25:47;	Dark	;	44.0;	54;	5The Cen	;	2.06;	4500;occ;	88;	0;	32162
13;	1498.8;	24-APR-2008	22:30:12;	Dark	;	42.0;	169;	46Gam Hya	;	2.99;	4700;occ;	84;	0;	32162
14;	1703.3;	24-APR-2008	22:33:36;	Bright;	;	39.0;	15;	67Alp Vir	;	0.98;	28000;occ;	78;	0;	32162
15;	1885.6;	24-APR-2008	22:36:38;	Bright;	;	35.5;	121;	29Gam Vir	;	2.74;	7200;occ;	71;	0;	32162
16;	2093.2;	24-APR-2008	22:40:06;	Bright;	;	36.5;	138;	47Eps Vir	;	2.83;	4700;occ;	73;	0;	32162
17;	2181.6;	24-APR-2008	22:41:34;	Bright;	;	35.0;	62;	94Bet Leo	;	2.14;	9700;occ;	70;	0;	32162
18;	2314.2;	24-APR-2008	22:43:47;	Bright;	;	35.5;	96;	68Del Leo	;	2.56;	9300;occ;	71;	0;	32162
19;	2564.5;	24-APR-2008	22:47:57;	Bright;	;	35.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	70;	0;	32162
20;	2702.3;	24-APR-2008	22:50:15;	Bright;	;	33.0;	174;	52Psi UMa	;	3.00;	4400;occ;	66;	0;	32162
21;	2823.4;	24-APR-2008	22:52:16;	Bright;	;	34.0;	87;	64Gam UMa	;	2.43;	11000;occ;	68;	0;	32162
22;	2896.1;	24-APR-2008	22:53:29;	Bright;	;	33.0;	82;	48Bet UMa	;	2.37;	10600;occ;	66;	0;	32162
23;	2979.0;	24-APR-2008	22:54:52;	Bright;	;	37.5;	36;	50Alp UMa	;	1.80;	6300;occ;	75;	0;	32162
24;	3444.2;	24-APR-2008	23:02:37;	Bright;	;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	32162
25;	3904.0;	24-APR-2008	23:10:17;	Bright;	;	32.5;	110;	37Del Cas	;	2.68;	8900;occ;	65;	0;	32162
26;	3990.9;	24-APR-2008	23:11:44;	Bright;	;	32.5;	68;	18Alp Cas	;	2.22;	4500;occ;	65;	0;	32162

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1;	-529.4;	24-APR-2008	23:36:59;	Dark	;	41.0;	18;	24Alp PsA	;	1.17;	9700;occ;	82;	0;	32162
2;	-329.6;	24-APR-2008	23:40:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	32162
3;	-189.5;	24-APR-2008	23:42:39;	Dark	;	41.0;	31;	Alp Gru	;	1.73;	15200;occ;	82;	0;	32162
4;	-17.0;	24-APR-2008	23:45:32;	Dark	;	39.0;	148;	Alp Tuc	;	2.88;	4100;occ;	78;	0;	32162
5;	130.1;	24-APR-2008	23:47:59;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;occ;	79;	0;	32163
6;	547.4;	24-APR-2008	23:54:56;	Dark	;	46.5;	43;	Alp TrA	;	1.91;	4250;occ;	93;	0;	32163
7;	677.9;	24-APR-2008	23:57:07;	Dark	;	37.5;	134;	Bet TrA	;	2.81;	6600;occ;	75;	0;	32163
8;	809.4;	24-APR-2008	23:59:18;	Dark	;	53.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	106;	0;	32163
9;	915.9;	25-APR-2008	00:01:05;	Dark	;	40.5;	20;	Bet Cru	;	1.25;	30000;occ;	81;	0;	32163
10;	1010.0;	25-APR-2008	00:02:39;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;occ;	80;	0;	32163
11;	1095.5;	25-APR-2008	00:04:04;	Dark	;	38.0;	64;	Gam Cen	;	2.20;	10600;occ;	76;	0;	32163
12;	1234.6;	25-APR-2008	00:06:23;	Dark	;	45.0;	54;	5The Cen	;	2.06;	4500;occ;	90;	0;	32163
13;	1499.0;	25-APR-2008	00:10:48;	Dark	;	41.5;	169;	46Gam Hya	;	2.99;	4700;occ;	83;	0;	32163
14;	1703.5;	25-APR-2008	00:14:12;	Bright;	;	39.0;	15;	67Alp Vir	;	0.98;	28000;occ;	78;	0;	32163
15;	1885.6;	25-APR-2008	00:17:14;	Bright;	;	36.5;	121;	29Gam Vir	;	2.74;	7200;occ;	73;	0;	32163
16;	2093.2;	25-APR-2008	00:20:42;	Bright;	;	35.5;	138;	47Eps Vir	;	2.83;	4700;occ;	71;	0;	32163
17;	2182.0;	25-APR-2008	00:22:11;	Bright;	;	35.0;	62;	94Bet Leo	;	2.14;	9700;occ;	70;	0;	32163
18;	2314.5;	25-APR-2008	00:24:23;	Bright;	;	35.5;	96;	68Del Leo	;	2.56;	9300;occ;	71;	0;	32163
19;	2564.4;	25-APR-2008	00:28:33;	Bright;	;	34.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	69;	0;	32163
20;	2702.5;	25-APR-2008	00:30:51;	Bright;	;	35.5;	174;	52Psi UMa	;	3.00;	4400;occ;	71;	0;	32163
21;	2823.4;	25-APR-2008	00:32:52;	Bright;	;	52.0;	87;	64Gam UMa	;	2.43;	11000;occ;	104;	0;	32163
22;	2896.3;	25-APR-2008	00:34:05;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	32163
23;	2979.2;	25-APR-2008	00:35:28;	Bright;	;	36.5;	36;	50Alp UMa	;	1.80;	6300;occ;	73;	0;	32163
24;	3444.2;	25-APR-2008	00:43:13;	Bright;	;	32.5;	49;	1Alp UMi	;	1.99;	6300;occ;	65;	0;	32163
25;	3904.1;	25-APR-2008	00:50:53;	Bright;	;	34.5;	110;	37Del Cas	;	2.68;	8900;occ;	69;	0;	32163
26;	3991.0;	25-APR-2008	00:52:20;	Bright;	;	33.0;	68;	18Alp Cas	;	2.22;	4500;occ;	66;	0;	32163

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1;	-2134.0;	24-APR-2008	06:24:15;	Bright;	;	35.5;	110;	37Del Cas	;	2.68;	8900;occ;	71;	0;	32152
2;	-2046.5;	24-APR-2008	06:25:43;	Bright;	;	35.0;	68;	18Alp Cas	;	2.22;	4500;occ;	70;	0;	32152
3;	-1288.4;	24-APR-2008	06:38:21;	Dark	;	41.0;	90;	54Alp Peg	;	2.49;	11000;occ;	82;	0;	32152
4;	-533.3;	24-APR-2008	06:50:56;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	32152
5;	-331.3;	24-APR-2008	06:54:18;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	32152
6;	-194.3;	24-APR-2008	06:56:35;	Dark	;	39.5;	31;	Alp Gru	;	1.73;	15200;occ;	79;	0;	32152

7;	-20.0;	24-APR-2008	06:59:29;	Dark	;	36.0;	148;	Alp Tuc	;	2.88;	4100;	occ;	72;	0;	32152
8;	124.1;	24-APR-2008	07:01:53;	Dark	;	40.0;	45;	Alp Pav	;	1.94;	26000;	occ;	80;	0;	32153
9;	543.5;	24-APR-2008	07:08:53;	Dark	;	37.5;	43;	Alp TrA	;	1.91;	4250;	occ;	75;	0;	32153
10;	673.8;	24-APR-2008	07:11:03;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;	occ;	74;	0;	32153
11;	806.2;	24-APR-2008	07:13:16;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	91;	0;	32153
12;	914.6;	24-APR-2008	07:15:04;	Dark	;	38.5;	20;	Bet Cru	;	1.25;	30000;	occ;	77;	0;	32153
13;	1006.2;	24-APR-2008	07:16:36;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;	occ;	80;	0;	32153
14;	1093.9;	24-APR-2008	07:18:03;	Dark	;	38.0;	64;	Gam Cen	;	2.20;	10600;	occ;	76;	0;	32153
15;	1231.8;	24-APR-2008	07:20:21;	Dark	;	45.5;	54;	5The Cen	;	2.06;	4500;	occ;	91;	0;	32153
16;	1497.2;	24-APR-2008	07:24:47;	Dark	;	39.5;	169;	46Gam Hya	;	2.99;	4700;	occ;	79;	0;	32153
17;	1702.4;	24-APR-2008	07:28:12;	Bright;	;	38.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	77;	0;	32153

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1;	1717.9;	24-APR-2008	07:28:27;	Bright;	;	39.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	78;	31;	32153
2;	1884.5;	24-APR-2008	07:31:14;	Bright;	;	36.0;	121;	29Gam Vir	;	2.74;	7200;	occ;	72;	0;	32153
3;	2093.3;	24-APR-2008	07:34:43;	Bright;	;	37.0;	138;	47Eps Vir	;	2.83;	4700;	occ;	74;	0;	32153
4;	2179.6;	24-APR-2008	07:36:09;	Bright;	;	35.0;	62;	94Bet Leo	;	2.14;	9700;	occ;	70;	0;	32153
5;	2311.0;	24-APR-2008	07:38:20;	Bright;	;	34.5;	96;	68Del Leo	;	2.56;	9300;	occ;	69;	0;	32153
6;	2565.5;	24-APR-2008	07:42:35;	Bright;	;	34.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	68;	0;	32153
7;	2699.7;	24-APR-2008	07:44:49;	Bright;	;	35.0;	174;	52Psi UMa	;	3.00;	4400;	occ;	70;	0;	32153
8;	2822.7;	24-APR-2008	07:46:52;	Bright;	;	34.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	68;	0;	32153
9;	2977.4;	24-APR-2008	07:49:27;	Bright;	;	36.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	72;	0;	32153
10;	3444.1;	24-APR-2008	07:57:13;	Bright;	;	32.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	65;	0;	32153
11;	3902.0;	24-APR-2008	08:04:51;	Bright;	;	34.5;	110;	37Del Cas	;	2.68;	8900;	occ;	69;	0;	32153
12;	3989.7;	24-APR-2008	08:06:19;	Bright;	;	35.5;	68;	18Alp Cas	;	2.22;	4500;	occ;	71;	0;	32153
13;	4747.9;	24-APR-2008	08:18:57;	Dark	;	42.5;	90;	54Alp Peg	;	2.49;	11000;	occ;	85;	0;	32153
14;	5503.0;	24-APR-2008	08:31:32;	Dark	;	42.0;	18;	24Alp PsA	;	1.17;	9700;	occ;	84;	0;	32153
15;	5704.8;	24-APR-2008	08:34:54;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	32153
16;	5842.0;	24-APR-2008	08:37:11;	Dark	;	39.0;	31;	Alp Gru	;	1.73;	15200;	occ;	78;	0;	32153
17;	6016.1;	24-APR-2008	08:40:06;	Dark	;	37.0;	148;	Alp Tuc	;	2.88;	4100;	occ;	74;	0;	32153
18;	6160.6;	24-APR-2008	08:42:30;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;	occ;	83;	0;	32153
19;	6579.8;	24-APR-2008	08:49:29;	Dark	;	41.5;	43;	Alp TrA	;	1.91;	4250;	occ;	83;	0;	32153
20;	6710.2;	24-APR-2008	08:51:40;	Dark	;	38.5;	134;	Bet TrA	;	2.81;	6600;	occ;	77;	0;	32153
21;	6842.4;	24-APR-2008	08:53:52;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;	occ;	82;	0;	32153
22;	6950.6;	24-APR-2008	08:55:40;	Dark	;	40.0;	20;	Bet Cru	;	1.25;	30000;	occ;	80;	0;	32153
23;	7042.5;	24-APR-2008	08:57:12;	Dark	;	38.5;	78;	Alp Lup	;	2.30;	28000;	occ;	77;	0;	32153
24;	7129.8;	24-APR-2008	08:58:39;	Dark	;	39.5;	64;	Gam Cen	;	2.20;	10600;	occ;	79;	0;	32153
25;	7267.9;	24-APR-2008	09:00:57;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;	occ;	97;	0;	32153
26;	7533.4;	24-APR-2008	09:05:23;	Dark	;	39.0;	169;	46Gam Hya	;	2.99;	4700;	occ;	78;	0;	32153
27;	7738.5;	24-APR-2008	09:08:48;	Bright;	;	39.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	78;	0;	32153

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1;	1741.0;	24-APR-2008	09:09:26;	Bright;	;	39.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	79;	77;	32154
2;	1884.8;	24-APR-2008	09:11:50;	Bright;	;	36.0;	121;	29Gam Vir	;	2.74;	7200;	occ;	72;	0;	32154
3;	2093.1;	24-APR-2008	09:15:18;	Bright;	;	36.5;	138;	47Eps Vir	;	2.83;	4700;	occ;	73;	0;	32154
4;	2179.9;	24-APR-2008	09:16:45;	Bright;	;	35.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	71;	0;	32154
5;	2311.4;	24-APR-2008	09:18:57;	Bright;	;	36.0;	96;	68Del Leo	;	2.56;	9300;	occ;	72;	0;	32154
6;	2565.3;	24-APR-2008	09:23:11;	Bright;	;	35.0;	152;	12Alp2CVn	;	2.89;	11000;	occ;	70;	0;	32154
7;	2700.0;	24-APR-2008	09:25:25;	Bright;	;	34.5;	174;	52Psi UMa	;	3.00;	4400;	occ;	69;	0;	32154
8;	2822.7;	24-APR-2008	09:27:28;	Bright;	;	36.5;	87;	64Gam UMa	;	2.43;	11000;	occ;	73;	0;	32154
9;	2977.5;	24-APR-2008	09:30:03;	Bright;	;	36.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	72;	0;	32154
10;	3444.0;	24-APR-2008	09:37:49;	Bright;	;	33.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	67;	0;	32154
11;	3902.2;	24-APR-2008	09:45:28;	Bright;	;	35.0;	110;	37Del Cas	;	2.68;	8900;	occ;	70;	0;	32154
12;	3989.8;	24-APR-2008	09:46:55;	Bright;	;	33.0;	68;	18Alp Cas	;	2.22;	4500;	occ;	66;	0;	32154
13;	4748.1;	24-APR-2008	09:59:33;	Dark	;	42.5;	90;	54Alp Peg	;	2.49;	11000;	occ;	85;	0;	32154
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15;	5705.0;	24-APR-2008	10:15:30;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	32154
16;	5842.6;	24-APR-2008	10:17:48;	Dark	;	39.5;	31;	Alp Gru	;	1.73;	15200;	occ;	79;	0;	32154
17;	6016.3;	24-APR-2008	10:20:42;	Dark	;	38.5;	148;	Alp Tuc	;	2.88;	4100;	occ;	77;	0;	32154
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22;	6950.7;	24-APR-2008	10:36:16;	Dark	;	42.0;	20;	Bet Cru	;	1.25;	30000;	occ;	84;	0;	32154
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 4; 1890.4; 27-APR-2008 17:40:41; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32202  
 5; 2093.7; 27-APR-2008 17:44:04; Bright; 36.0; 138; 47Eps Vir ; 2.83; 4700;occ; 72; 0;32202  
 6; 2191.1; 27-APR-2008 17:45:41; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32202  
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 11; 2986.8; 27-APR-2008 17:58:57; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;32202  
 12; 3444.5; 27-APR-2008 18:06:35; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32202  
 13; 3911.2; 27-APR-2008 18:14:21; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;32202  
 14; 3995.9; 27-APR-2008 18:15:46; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;32202  
 15; 5523.1; 27-APR-2008 18:41:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;32202  
 16; 5714.2; 27-APR-2008 18:44:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32202  
 17; 5866.3; 27-APR-2008 18:46:57; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;32202  
 18; 6031.5; 27-APR-2008 18:49:42; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;32202  
 19; 6190.8; 27-APR-2008 18:52:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32202  
 20; 6598.3; 27-APR-2008 18:59:09; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;32202  
 21; 6729.5; 27-APR-2008 19:01:20; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;32202  
 22; 6857.2; 27-APR-2008 19:03:27; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;32202  
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 12; 1246.3; 28-APR-2008 01:52:56; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;32207  
 13; 1506.4; 28-APR-2008 01:57:16; Dark ; 52.0; 169; 46Gam Hya ; 2.99; 4700;occ; 104; 0;32207

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19; 2715.2; 28-APR-2008 02:17:25; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;32207  
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22; 2987.6; 28-APR-2008 02:21:57; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;32207  
23; 3444.4; 28-APR-2008 02:29:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32207  
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7; 158.0; 28-APR-2008 03:15:24; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;32208  
8; 564.2; 28-APR-2008 03:22:10; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;32208  
9; 695.4; 28-APR-2008 03:24:21; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;32208  
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12; 1025.8; 28-APR-2008 03:29:52; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32208  
13; 1119.0; 28-APR-2008 03:31:25; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;32208  
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22; 2828.0; 28-APR-2008 03:59:54; Bright; 33.0; 87; 64Gam UMa ; 2.43; 11000;occ; 66; 0;32208  
23; 2907.2; 28-APR-2008 04:01:13; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;32208  
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6	; 164.9	; 28-APR-2008 21:42:06	; Dark	; 41.0	; 45	; Alp Pav	; 1.94	; 26000	; occ	; 82	; 0	; 32219
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20	; 2719.3	; 28-APR-2008 22:24:41	; Bright	; 36.5	; 174	; 52Psi UMA	; 3.00	; 4400	; occ	; 73	; 0	; 32219
21	; 2829.4	; 28-APR-2008 22:26:31	; Bright	; 39.5	; 87	; 64Gam UMA	; 2.43	; 11000	; occ	; 79	; 0	; 32219
22	; 2910.0	; 28-APR-2008 22:27:51	; Bright	; 35.0	; 82	; 48Bet UMA	; 2.37	; 10600	; occ	; 70	; 0	; 32219
23	; 2990.2	; 28-APR-2008 22:29:11	; Bright	; 38.5	; 36	; 50Alp UMA	; 1.80	; 6300	; occ	; 77	; 0	; 32219
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22	; 2910.4	; 29-APR-2008 00:08:27	; Bright	; 34.5	; 82	; 48Bet UMA	; 2.37	; 10600	; occ	; 69	; 0	; 32220
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25	; 3914.2	; 29-APR-2008 00:25:11	; Bright	; 31.5	; 110	; 37Del Cas	; 2.68	; 8900	; occ	; 63	; 0	; 32220
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15; 6035.1; 28-APR-2008 13:16:21; Dark ; 37.0; 148; Alp Tuc ; 2.88; 4100;occ; 74; 0;32213  
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5; 2194.3; 28-APR-2008 13:52:56; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32214  
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7; 2717.7; 28-APR-2008 14:01:39; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32214  
8; 2828.8; 28-APR-2008 14:03:30; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32214  
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22; 6958.1; 28-APR-2008 15:12:19; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;32214  
23; 7064.2; 28-APR-2008 15:14:06; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;32214  
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16;	1509.5;	29-APR-2008 08:08:06;	Dark ;	46.5;	169;	46Gam Hya	; 2.99;	4700;	occ;	93;	0;	32225
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1;	1709.9;	29-APR-2008 08:11:27;	Bright;	39.0;	15;	67Alp Vir	; 0.98;	28000;	occ;	78;	0;	32225
2;	1893.6;	29-APR-2008 08:14:30;	Bright;	36.0;	121;	29Gam Vir	; 2.74;	7200;	occ;	72;	0;	32225
3;	2094.6;	29-APR-2008 08:17:51;	Bright;	36.5;	138;	47Eps Vir	; 2.83;	4700;	occ;	73;	0;	32225
4;	2197.2;	29-APR-2008 08:19:34;	Bright;	35.0;	62;	94Bet Leo	; 2.14;	9700;	occ;	70;	0;	32225
5;	2560.2;	29-APR-2008 08:25:37;	Bright;	34.5;	152;	12Alp2CVn	; 2.89;	11000;	occ;	69;	0;	32225
6;	2721.2;	29-APR-2008 08:28:18;	Bright;	35.5;	174;	52Psi UMa	; 3.00;	4400;	occ;	71;	0;	32225
7;	2830.3;	29-APR-2008 08:30:07;	Bright;	36.5;	87;	64Gam UMa	; 2.43;	11000;	occ;	73;	0;	32225
8;	2911.7;	29-APR-2008 08:31:29;	Bright;	34.0;	82;	48Bet UMa	; 2.37;	10600;	occ;	68;	0;	32225
9;	2991.6;	29-APR-2008 08:32:48;	Bright;	36.0;	36;	50Alp UMa	; 1.80;	6300;	occ;	72;	0;	32225
10;	3444.7;	29-APR-2008 08:40:22;	Bright;	35.5;	49;	1Alp UMi	; 1.99;	6300;	occ;	71;	0;	32225
11;	3914.9;	29-APR-2008 08:48:12;	Bright;	32.5;	110;	37Del Cas	; 2.68;	8900;	occ;	65;	0;	32225
12;	3998.4;	29-APR-2008 08:49:35;	Bright;	44.0;	68;	18Alp Cas	; 2.22;	4500;	occ;	88;	0;	32225
13;	5242.0;	29-APR-2008 09:10:19;	Dark ;	38.0;	52;	16Bet Cet	; 2.04;	4500;	occ;	76;	0;	32225
14;	5533.4;	29-APR-2008 09:15:10;	Dark ;	45.5;	18;	24Alp PsA	; 1.17;	9700;	occ;	91;	0;	32225
15;	5719.3;	29-APR-2008 09:18:16;	Dark ;	59.5;	0;		; 0.00;	0;	occ;	119;	0;	32225
16;	5878.2;	29-APR-2008 09:20:55;	Dark ;	43.0;	31;	Alp Gru	; 1.73;	15200;	occ;	86;	0;	32225
17;	6039.0;	29-APR-2008 09:23:36;	Dark ;	43.0;	148;	Alp Tuc	; 2.88;	4100;	occ;	86;	0;	32225
18;	6205.2;	29-APR-2008 09:26:22;	Dark ;	44.0;	45;	Alp Pav	; 1.94;	26000;	occ;	88;	0;	32225
19;	6606.6;	29-APR-2008 09:33:03;	Dark ;	42.5;	43;	Alp TrA	; 1.91;	4250;	occ;	85;	0;	32225
20;	6738.0;	29-APR-2008 09:35:15;	Dark ;	38.0;	134;	Bet TrA	; 2.81;	6600;	occ;	76;	0;	32225
21;	6863.5;	29-APR-2008 09:37:20;	Dark ;	47.5;	4;	Alp1Cen	; -0.01;	5800;	occ;	95;	0;	32225
22;	6959.1;	29-APR-2008 09:38:56;	Dark ;	41.0;	20;	Bet Cru	; 1.25;	30000;	occ;	82;	0;	32225
23;	7067.8;	29-APR-2008 09:40:45;	Dark ;	40.5;	78;	Alp Lup	; 2.30;	28000;	occ;	81;	0;	32225
24;	7160.7;	29-APR-2008 09:42:18;	Dark ;	41.0;	81;	Eta Cen	; 2.36;	28000;	occ;	82;	0;	32225
25;	7287.2;	29-APR-2008 09:44:24;	Dark ;	43.0;	54;	5The Cen	; 2.06;	4500;	occ;	86;	0;	32225
26;	7545.6;	29-APR-2008 09:48:42;	Dark ;	47.0;	169;	46Gam Hya	; 2.99;	4700;	occ;	94;	0;	32225
27;	7745.9;	29-APR-2008 09:52:03;	Bright;	38.5;	15;	67Alp Vir	; 0.98;	28000;	occ;	77;	0;	32225
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080429_095507_000056992068_00108_32226_0817.N1												
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2;	2094.6;	29-APR-2008 09:58:27;	Bright;	36.0;	138;	47Eps Vir	; 2.83;	4700;	occ;	72;	0;	32226
3;	2560.0;	29-APR-2008 10:06:13;	Bright;	39.5;	152;	12Alp2CVn	; 2.89;	11000;	occ;	79;	0;	32226
4;	2721.6;	29-APR-2008 10:08:54;	Bright;	35.5;	174;	52Psi UMa	; 3.00;	4400;	occ;	71;	0;	32226
5;	2830.3;	29-APR-2008 10:10:43;	Bright;	34.5;	87;	64Gam UMa	; 2.43;	11000;	occ;	69;	0;	32226
6;	2912.0;	29-APR-2008 10:12:05;	Bright;	52.0;	82;	48Bet UMa	; 2.37;	10600;	occ;	104;	0;	32226
7;	2991.8;	29-APR-2008 10:13:25;	Bright;	36.5;	36;	50Alp UMa	; 1.80;	6300;	occ;	73;	0;	32226
8;	3444.7;	29-APR-2008 10:20:57;	Bright;	35.0;	49;	1Alp UMi	; 1.99;	6300;	occ;	70;	0;	32226
9;	3915.1;	29-APR-2008 10:28:48;	Bright;	33.0;	110;	37Del Cas	; 2.68;	8900;	occ;	66;	0;	32226
10;	3998.4;	29-APR-2008 10:30:11;	Bright;	33.5;	68;	18Alp Cas	; 2.22;	4500;	occ;	67;	0;	32226
11;	5242.0;	29-APR-2008 10:50:55;	Dark ;	41.5;	52;	16Bet Cet	; 2.04;	4500;	occ;	83;	0;	32226
12;	5533.9;	29-APR-2008 10:55:47;	Dark ;	43.5;	18;	24Alp PsA	; 1.17;	9700;	occ;	87;	0;	32226
13;	5658.4;	29-APR-2008 10:57:51;	Dark ;	59.5;	0;		; 0.00;	0;	occ;	119;	0;	32226
14;	5878.8;	29-APR-2008 11:01:32;	Dark ;	40.0;	31;	Alp Gru	; 1.73;	15200;	occ;	80;	0;	32226
15;	6205.8;	29-APR-2008 11:06:59;	Dark ;	40.0;	45;	Alp Pav	; 1.94;	26000;	occ;	80;	0;	32226

16; 6606.9; 29-APR-2008 11:13:40; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;32226  
 17; 6738.5; 29-APR-2008 11:15:51; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;32226  
 18; 6863.8; 29-APR-2008 11:17:57; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;32226  
 19; 6959.3; 29-APR-2008 11:19:32; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;32226  
 20; 7068.0; 29-APR-2008 11:21:21; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32226  
 21; 7161.1; 29-APR-2008 11:22:54; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;32226  
 22; 7287.4; 29-APR-2008 11:25:00; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32226  
 23; 7545.7; 29-APR-2008 11:29:18; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;32226

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1; 1710.1; 29-APR-2008 11:32:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;32227  
 2; 1893.9; 29-APR-2008 11:35:43; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32227  
 3; 2094.6; 29-APR-2008 11:39:03; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32227  
 4; 2197.7; 29-APR-2008 11:40:46; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;32227  
 5; 2560.0; 29-APR-2008 11:46:49; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;32227  
 6; 2721.9; 29-APR-2008 11:49:31; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32227  
 7; 2830.4; 29-APR-2008 11:51:19; Bright; 33.5; 87; 64Gam UMa ; 2.43; 11000;occ; 67; 0;32227  
 8; 2912.1; 29-APR-2008 11:52:41; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;32227  
 9; 2992.0; 29-APR-2008 11:54:01; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32227  
 10; 3444.6; 29-APR-2008 12:01:33; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;32227  
 11; 3915.3; 29-APR-2008 12:09:24; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;32227  
 12; 3998.6; 29-APR-2008 12:10:47; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;32227  
 13; 5242.1; 29-APR-2008 12:31:31; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;32227  
 14; 5534.3; 29-APR-2008 12:36:23; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;32227  
 15; 5659.0; 29-APR-2008 12:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32227  
 16; 5879.2; 29-APR-2008 12:42:08; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;32227  
 17; 6206.5; 29-APR-2008 12:47:35; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32227  
 18; 6607.3; 29-APR-2008 12:54:16; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;32227  
 19; 6738.9; 29-APR-2008 12:56:27; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32227  
 20; 6864.1; 29-APR-2008 12:58:33; Dark ; 38.0; 4; Alp1Cen ; -0.01; 5800;occ; 76; 0;32227  
 21; 6959.4; 29-APR-2008 13:00:08; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;32227  
 22; 7068.6; 29-APR-2008 13:01:57; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32227  
 23; 7161.3; 29-APR-2008 13:03:30; Dark ; 37.5; 81; Eta Cen ; 2.36; 28000;occ; 75; 0;32227  
 24; 7287.6; 29-APR-2008 13:05:36; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;32227  
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 2; 1894.0; 29-APR-2008 13:16:19; Bright; 36.5; 121; 29Gam Vir ; 2.74; 7200;occ; 73; 0;32228  
 3; 2094.7; 29-APR-2008 13:19:39; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32228  
 4; 2198.1; 29-APR-2008 13:21:23; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;32228  
 5; 2560.0; 29-APR-2008 13:27:25; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32228  
 6; 2722.2; 29-APR-2008 13:30:07; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;32228  
 7; 2830.7; 29-APR-2008 13:31:55; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;32228  
 8; 2912.5; 29-APR-2008 13:33:17; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;32228  
 9; 2992.2; 29-APR-2008 13:34:37; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;32228  
 10; 3444.7; 29-APR-2008 13:42:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;32228  
 11; 3915.5; 29-APR-2008 13:50:00; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;32228  
 12; 3998.8; 29-APR-2008 13:51:23; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;32228  
 13; 5242.3; 29-APR-2008 14:12:07; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;32228  
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 15; 5659.6; 29-APR-2008 14:19:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32228  
 16; 5879.9; 29-APR-2008 14:22:44; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;32228  
 17; 6040.2; 29-APR-2008 14:25:25; Dark ; 37.0; 148; Alp Tuc ; 2.88; 4100;occ; 74; 0;32228  
 18; 6207.1; 29-APR-2008 14:28:12; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32228  
 19; 6607.7; 29-APR-2008 14:34:52; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;32228  
 20; 6739.3; 29-APR-2008 14:37:04; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32228  
 21; 6864.4; 29-APR-2008 14:39:09; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;32228  
 22; 6959.5; 29-APR-2008 14:40:44; Dark ; 38.5; 20; Bet Cru ; 1.25; 30000;occ; 77; 0;32228  
 23; 7068.8; 29-APR-2008 14:42:33; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;32228  
 24; 7161.8; 29-APR-2008 14:44:06; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;32228  
 25; 7288.0; 29-APR-2008 14:46:13; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;32228

/nas3/ENVIAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080429\_145031\_000056892068\_00111\_32229\_0820.N1

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 3; 1894.2; 29-APR-2008 14:56:55; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32229  
 4; 2094.8; 29-APR-2008 15:00:15; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32229  
 5; 2198.4; 29-APR-2008 15:01:59; Bright; 34.5; 62; 94Bet Leo ; 2.14; 9700;occ; 69; 0;32229  
 6; 2560.0; 29-APR-2008 15:08:00; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32229  
 7; 2722.5; 29-APR-2008 15:10:43; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;32229

8; 2830.9; 29-APR-2008 15:12:31; Bright; 33.5; 87; 64Gam UMa ; 2.43; 11000;occ; 67; 0;32229  
9; 2912.8; 29-APR-2008 15:13:53; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;32229  
10; 2992.6; 29-APR-2008 15:15:13; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;32229  
11; 3444.8; 29-APR-2008 15:22:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32229  
12; 3915.7; 29-APR-2008 15:30:36; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;32229  
13; 3999.0; 29-APR-2008 15:31:59; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;32229  
14; 5242.5; 29-APR-2008 15:52:43; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;32229  
15; 5535.4; 29-APR-2008 15:57:36; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;32229  
16; 5660.2; 29-APR-2008 15:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32229  
17; 5880.5; 29-APR-2008 16:03:21; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;32229  
18; 6040.6; 29-APR-2008 16:06:01; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;32229  
19; 6207.9; 29-APR-2008 16:08:48; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32229  
20; 6608.1; 29-APR-2008 16:15:29; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;32229  
21; 6739.8; 29-APR-2008 16:17:40; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;32229  
22; 6864.7; 29-APR-2008 16:19:45; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;32229  
23; 6959.7; 29-APR-2008 16:21:20; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;32229  
24; 7069.2; 29-APR-2008 16:23:10; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;32229  
25; 7162.1; 29-APR-2008 16:24:42; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;32229

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2; 1252.4; 29-APR-2008 16:26:49; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;32230  
3; 1510.5; 29-APR-2008 16:31:07; Dark ; 52.0; 169; 46Gam Hya ; 2.99; 4700;occ; 104; 0;32230  
4; 1710.5; 29-APR-2008 16:34:27; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;32230  
5; 1894.4; 29-APR-2008 16:37:31; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32230  
6; 2094.9; 29-APR-2008 16:40:51; Bright; 36.0; 138; 47Eps Vir ; 2.83; 4700;occ; 72; 0;32230  
7; 2198.6; 29-APR-2008 16:42:35; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32230  
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9; 2722.8; 29-APR-2008 16:51:19; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;32230  
10; 2831.0; 29-APR-2008 16:53:07; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;32230  
11; 2913.1; 29-APR-2008 16:54:30; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;32230  
12; 2992.8; 29-APR-2008 16:55:49; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32230  
13; 3444.7; 29-APR-2008 17:03:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32230  
14; 3915.8; 29-APR-2008 17:11:12; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;32230  
15; 3999.0; 29-APR-2008 17:12:35; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;32230  
16; 5242.6; 29-APR-2008 17:33:19; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;32230  
17; 5535.9; 29-APR-2008 17:38:12; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;32230  
18; 5660.8; 29-APR-2008 17:40:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32230  
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7; 710.4; 30-APR-2008 22:28:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32248  
8; 833.5; 30-APR-2008 22:30:37; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;32248  
9; 925.4; 30-APR-2008 22:32:09; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;32248  
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12; 1256.6; 30-APR-2008 22:37:40; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;32248  
13; 1513.3; 30-APR-2008 22:41:57; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;32248  
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16; 2095.8; 30-APR-2008 22:51:39; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32248  
17; 2203.8; 30-APR-2008 22:53:27; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32248  
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19; 2729.1; 30-APR-2008 23:02:12; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;32248  
20; 2833.4; 30-APR-2008 23:03:57; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32248  
21; 2918.1; 30-APR-2008 23:05:21; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;32248  
22; 2996.8; 30-APR-2008 23:06:40; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32248  
23; 3444.8; 30-APR-2008 23:14:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32248  
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7; 710.7; 01-MAY-2008 00:09:10; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32249  
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14; 1712.7; 01-MAY-2008 00:25:52; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;32249  
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16; 2096.0; 01-MAY-2008 00:32:15; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32249  
17; 2204.2; 01-MAY-2008 00:34:03; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32249  
18; 2559.7; 01-MAY-2008 00:39:59; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32249  
19; 2729.4; 01-MAY-2008 00:42:49; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;32249  
20; 2833.6; 01-MAY-2008 00:44:33; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32249  
21; 2918.4; 01-MAY-2008 00:45:58; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;32249  
22; 2997.1; 01-MAY-2008 00:47:16; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;32249  
23; 3444.8; 01-MAY-2008 00:54:44; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32249  
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7; 7.7; 30-APR-2008 07:11:28; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32239  
8; 177.7; 30-APR-2008 07:14:18; Dark ; 36.0; 45; Alp Pav ; 1.94; 26000;occ; 72; 0;32239  
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11; 831.3; 30-APR-2008 07:25:11; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;32239  
12; 924.7; 30-APR-2008 07:26:45; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;32239  
13; 1036.1; 30-APR-2008 07:28:36; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32239  
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5; 2559.9; 30-APR-2008 07:54:00; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32239  
6; 2726.0; 30-APR-2008 07:56:46; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;32239  
7; 2832.1; 30-APR-2008 07:58:32; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32239  
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12; 3999.9; 30-APR-2008 08:18:00; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;32239  
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16; 5885.9; 30-APR-2008 08:49:26; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32239  
17; 6044.0; 30-APR-2008 08:52:04; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;32239  
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19; 6611.8; 30-APR-2008 09:01:32; Dark ; 37.0; 43; Alp TrA ; 1.91; 4250;occ; 74; 0;32239  
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22; 6960.7; 30-APR-2008 09:07:21; Dark ; 39.0; 20; Bet Cru ; 1.25; 30000;occ; 78; 0;32239  
23; 7072.5; 30-APR-2008 09:09:12; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;32239  
24; 7165.1; 30-APR-2008 09:10:45; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;32239  
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26; 7548.3; 30-APR-2008 10:57:44; Dark ; 40.5; 169; 46Gam Hya ; 2.99; 4700;occ; 81; 0;32240  
27; 7747.8; 30-APR-2008 11:01:04; Bright; 19.0; 15; 67Alp Vir ; 0.98; 28000;occ; 38; 0;32240

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4; 2201.8; 30-APR-2008 11:09:14; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;32241  
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6; 2726.6; 30-APR-2008 11:17:58; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;32241  
7; 2832.3; 30-APR-2008 11:19:44; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;32241  
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23; 7072.9; 30-APR-2008 12:30:25; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;32241  
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6; 2727.0; 30-APR-2008 12:58:35; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32242  
7; 2832.6; 30-APR-2008 13:00:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;32242  
8; 2916.5; 30-APR-2008 13:01:44; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;32242  
9; 2995.6; 30-APR-2008 13:03:03; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;32242  
10; 3444.8; 30-APR-2008 13:10:32; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32242  
11; 3917.9; 30-APR-2008 13:18:25; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;32242  
12; 4000.3; 30-APR-2008 13:19:48; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;32242  
13; 5243.7; 30-APR-2008 13:40:31; Dark ; 39.0; 52; 16Bet Cet ; 2.04; 4500;occ; 78; 0;32242  
14; 5541.7; 30-APR-2008 13:45:29; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;32242  
15; 5667.9; 30-APR-2008 13:47:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32242  
16; 5887.5; 30-APR-2008 13:51:15; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32242  
17; 6045.1; 30-APR-2008 13:53:53; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;32242  
18; 6216.2; 30-APR-2008 13:56:44; Dark ; 29.0; 45; Alp Pav ; 1.94; 26000;occ; 58; 0;32242  
19; 6612.8; 30-APR-2008 14:03:20; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;32242  
20; 6744.7; 30-APR-2008 14:05:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32242  
21; 6868.2; 30-APR-2008 14:07:36; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;32242  
22; 6961.0; 30-APR-2008 14:09:09; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;32242  
23; 7073.3; 30-APR-2008 14:11:01; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;32242  
24; 7166.0; 30-APR-2008 14:12:34; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;32242  
25; 7291.4; 30-APR-2008 14:14:39; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32242  
26; 7548.6; 30-APR-2008 14:18:56; Dark ; 19.0; 169; 46Gam Hya ; 2.99; 4700;occ; 38; 0;32242

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2; 1712.1; 30-APR-2008 14:22:16; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;32243  
3; 1896.4; 30-APR-2008 14:25:20; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;32243  
4; 2095.8; 30-APR-2008 14:28:39; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;32243  
5; 2202.5; 30-APR-2008 14:30:26; Bright; 35.0; 62; 94Bet Leo ; 2.14; 9700;occ; 70; 0;32243  
6; 2559.9; 30-APR-2008 14:36:23; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;32243  
7; 2727.4; 30-APR-2008 14:39:11; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32243  
8; 2832.8; 30-APR-2008 14:40:56; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;32243  
9; 2916.9; 30-APR-2008 14:42:20; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;32243  
10; 2995.8; 30-APR-2008 14:43:39; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;32243  
11; 3444.9; 30-APR-2008 14:51:08; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32243  
12; 3918.2; 30-APR-2008 14:59:02; Bright; 48.5; 110; 37Del Cas ; 2.68; 8900;occ; 97; 0;32243  
13; 4000.5; 30-APR-2008 15:00:24; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32243  
14; 5243.9; 30-APR-2008 15:21:07; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;32243  
15; 5542.2; 30-APR-2008 15:26:06; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;32243  
16; 5668.5; 30-APR-2008 15:28:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32243  
17; 5888.1; 30-APR-2008 15:31:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;32243  
18; 6045.5; 30-APR-2008 15:34:29; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;32243  
19; 6216.9; 30-APR-2008 15:37:20; Dark ; 25.0; 45; Alp Pav ; 1.94; 26000;occ; 50; 0;32243  
20; 6613.2; 30-APR-2008 15:43:57; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;32243  
21; 6744.8; 30-APR-2008 15:46:08; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;32243  
22; 6868.5; 30-APR-2008 15:48:12; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;32243  
23; 6961.1; 30-APR-2008 15:49:45; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0;32243  
24; 7073.6; 30-APR-2008 15:51:37; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;32243  
25; 7166.4; 30-APR-2008 15:53:10; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;32243  
26; 7291.7; 30-APR-2008 15:55:15; Dark ; 41.0; 54; 5The Cen ; 2.06; 4500;occ; 82; 0;32243

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4; 1896.4; 30-APR-2008 16:05:56; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;32244
5; 2095.8; 30-APR-2008 16:09:15; Bright; 36.0; 138; 47Eps Vir ; 2.83; 4700;occ; 72; 0;32244
6; 2202.7; 30-APR-2008 16:11:02; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32244
7; 2559.8; 30-APR-2008 16:16:59; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;32244
8; 2727.7; 30-APR-2008 16:19:47; Bright; 37.0; 174; 52Psi UMA ; 3.00; 4400;occ; 74; 0;32244
9; 2832.9; 30-APR-2008 16:21:32; Bright; 35.0; 87; 64Gam UMA ; 2.43; 11000;occ; 70; 0;32244
10; 2917.1; 30-APR-2008 16:22:57; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;32244
11; 2995.9; 30-APR-2008 16:24:15; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;32244
12; 3444.8; 30-APR-2008 16:31:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32244
13; 3918.1; 30-APR-2008 16:39:38; Bright; 32.0; 110; 37Del Cas ; 2.68; 8900;occ; 64; 0;32244
14; 4000.5; 30-APR-2008 16:41:00; Bright; 51.5; 68; 18Alp Cas ; 2.22; 4500;occ; 103; 0;32244
15; 5243.9; 30-APR-2008 17:01:43; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;32244
16; 5542.7; 30-APR-2008 17:06:42; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;32244
17; 5669.2; 30-APR-2008 17:08:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32244
18; 5888.6; 30-APR-2008 17:12:28; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;32244
19; 6045.8; 30-APR-2008 17:15:05; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;32244
20; 6217.5; 30-APR-2008 17:17:57; Dark ; 25.0; 45; Alp Pav ; 1.94; 26000;occ; 50; 0;32244
21; 6613.6; 30-APR-2008 17:24:33; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;32244
22; 6745.3; 30-APR-2008 17:26:45; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32244
23; 6868.8; 30-APR-2008 17:28:48; Dark ; 47.0; 4; Alp1Cen ; -0.01; 5800;occ; 94; 0;32244
24; 6961.2; 30-APR-2008 17:30:21; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;32244
25; 7074.1; 30-APR-2008 17:32:14; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;32244

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2; 1130.6; 30-APR-2008 17:33:46; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;32245
3; 1256.0; 30-APR-2008 17:35:52; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;32245
4; 1513.0; 30-APR-2008 17:40:09; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;32245
5; 1712.3; 30-APR-2008 17:43:28; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;32245
6; 1896.6; 30-APR-2008 17:46:32; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;32245
7; 2095.7; 30-APR-2008 17:49:51; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32245
8; 2202.9; 30-APR-2008 17:51:38; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32245
9; 2559.9; 30-APR-2008 17:57:35; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;32245
10; 2728.1; 30-APR-2008 18:00:24; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;32245
11; 2833.0; 30-APR-2008 18:02:09; Bright; 50.0; 87; 64Gam UMA ; 2.43; 11000;occ; 100; 0;32245
12; 2917.4; 30-APR-2008 18:03:33; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;32245
13; 2996.2; 30-APR-2008 18:04:52; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;32245
14; 3444.8; 30-APR-2008 18:12:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32245
15; 3918.2; 30-APR-2008 18:20:14; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;32245
16; 4000.6; 30-APR-2008 18:21:36; Bright; 32.5; 68; 18Alp Cas ; 2.22; 4500;occ; 65; 0;32245
17; 5244.0; 30-APR-2008 18:42:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;32245
18; 5543.1; 30-APR-2008 18:47:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;32245
19; 5669.8; 30-APR-2008 18:49:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32245
20; 5889.2; 30-APR-2008 18:53:05; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;32245
21; 6046.2; 30-APR-2008 18:55:42; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;32245
22; 6613.9; 30-APR-2008 19:05:09; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;32245
23; 6745.7; 30-APR-2008 19:07:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32245
24; 6869.1; 30-APR-2008 19:09:25; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;32245
25; 6961.3; 30-APR-2008 19:10:57; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;32245

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3; 1130.8; 30-APR-2008 19:14:22; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;32246
4; 1256.2; 30-APR-2008 19:16:28; Dark ; 40.5; 54; 5The Cen ; 2.06; 4500;occ; 81; 0;32246
5; 1513.1; 30-APR-2008 19:20:45; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;32246
6; 1712.4; 30-APR-2008 19:24:04; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;32246
7; 1896.8; 30-APR-2008 19:27:08; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;32246
8; 2095.8; 30-APR-2008 19:30:27; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32246
9; 2203.2; 30-APR-2008 19:32:15; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32246
10; 2559.7; 30-APR-2008 19:38:11; Bright; 52.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 104; 0;32246
11; 2728.5; 30-APR-2008 19:41:00; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;32246
12; 2833.1; 30-APR-2008 19:42:45; Bright; 34.5; 87; 64Gam UMA ; 2.43; 11000;occ; 69; 0;32246
13; 2917.6; 30-APR-2008 19:44:09; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;32246
14; 2996.4; 30-APR-2008 19:45:28; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;32246
15; 3444.9; 30-APR-2008 19:52:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32246
16; 3918.3; 30-APR-2008 20:00:50; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;32246
17; 4000.7; 30-APR-2008 20:02:12; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32246

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19;	5543.6;	30-APR-2008	20:27:55;	Dark	;	46.5;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;32246
20;	5670.3;	30-APR-2008	20:30:02;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;32246
21;	5889.6;	30-APR-2008	20:33:41;	Dark	;	41.5;	31;	Alp Gru	;	1.73;	15200;occ;	83;	0;32246
22;	6046.4;	30-APR-2008	20:36:18;	Dark	;	37.0;	148;	Alp Tuc	;	2.88;	4100;occ;	74;	0;32246
23;	6614.1;	30-APR-2008	20:45:46;	Dark	;	38.0;	43;	Alp TrA	;	1.91;	4250;occ;	76;	0;32246
24;	6746.0;	30-APR-2008	20:47:58;	Dark	;	36.5;	134;	Bet TrA	;	2.81;	6600;occ;	73;	0;32246
25;	6869.3;	30-APR-2008	20:50:01;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;32246
26;	6961.2;	30-APR-2008	20:51:33;	Dark	;	38.5;	20;	Bet Cru	;	1.25;	30000;occ;	77;	0;32246