

GOMOS Daily Report 20-OCT-2007

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	22OCT2007 05:34:49
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (20OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

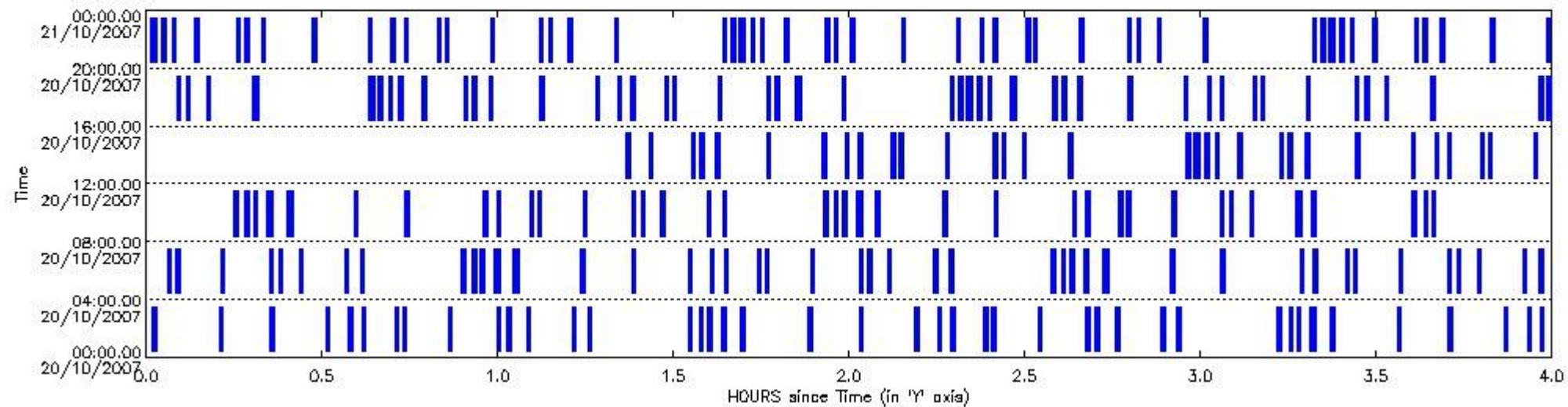
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

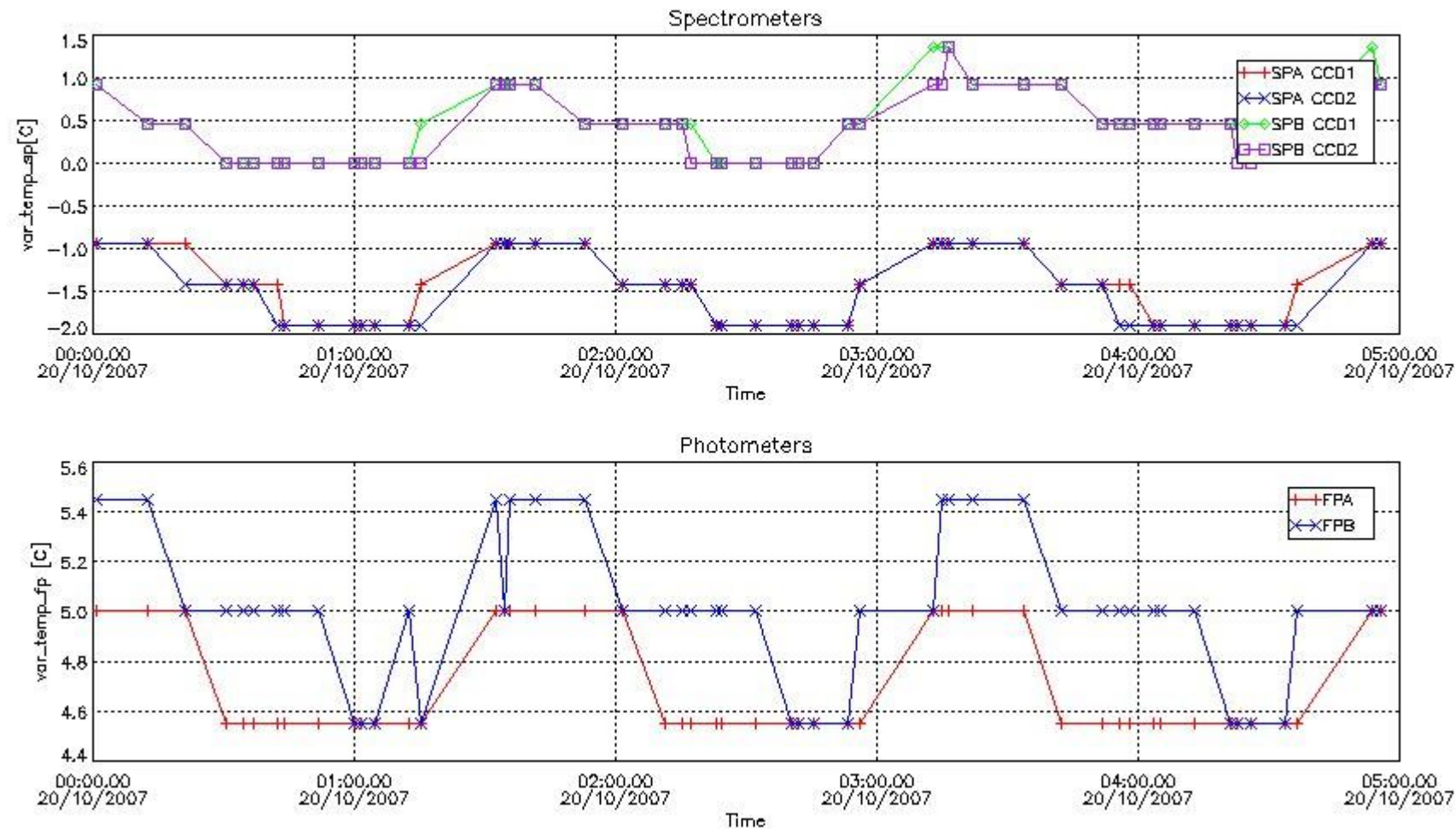
No missing products.

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_1PNPDE20071020_000052_000000502062_00360_29472_1974.N1	20-OCT-2007 00:00:52	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29472	No
2	GOM_TRA_1PNPDE20071020_001221_000000432062_00360_29472_1975.N1	20-OCT-2007 00:12:21	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	29472	No
3	GOM_TRA_1PNPDE20071020_002106_000000442062_00360_29472_1976.N1	20-OCT-2007 00:21:06	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29472	No
4	GOM_TRA_1PNPDE20071020_003039_000000352062_00360_29472_1977.N1	20-OCT-2007 00:30:39	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29472	No
5	GOM_TRA_1PNPDE20071020_003434_000000372062_00360_29472_1978.N1	20-OCT-2007 00:34:34	Bright	36.500	58	21Alp And	2.0730	11000.	73	29472	No
6	GOM_TRA_1PNPDE20071020_003650_000000372062_00360_29472_1979.N1	20-OCT-2007 00:36:50	Bright	37.000	53	43Bet And	2.0480	3300.0	74	29472	No
7	GOM_TRA_1PNPDE20071020_004228_000000372062_00360_29472_1980.N1	20-OCT-2007 00:42:28	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29472	No
8	GOM_TRA_1PNPDE20071020_004348_000000372062_00360_29472_1981.N1	20-OCT-2007 00:43:48	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	29472	No
9	GOM_TRA_1PNPDE20071020_005136_000000342062_00360_29472_1982.N1	20-OCT-2007 00:51:36	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29472	No
10	GOM_TRA_1PNPDE20071020_005951_000000362062_00360_29472_1983.N1	20-OCT-2007 00:59:51	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29472	No
11	GOM_TRA_1PNPDE20071020_010125_000000532062_00360_29472_1984.N1	20-OCT-2007 01:01:25	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	29472	No
12	GOM_TRA_1PNPDE20071020_010452_000000342062_00360_29472_1985.N1	20-OCT-2007 01:04:52	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29472	No

13	GOM_TRA_1PNPDE20071020_011241_000000392062_00360_29472_1986.N1	20-OCT-2007 01:12:41	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	29472	No
14	GOM_TRA_1PNPDE20071020_011521_000000422062_00360_29472_1987.N1	20-OCT-2007 01:15:21	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	29472	No
15	GOM_TRA_1PNPDE20071020_013231_000000422062_00360_29472_2114.N1	20-OCT-2007 01:32:31	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29472	No
16	GOM_TRA_1PNPDE20071020_013427_000000382062_00360_29472_2115.N1	20-OCT-2007 01:34:27	Dark	38.000	91	Kap Vel	2.4900	26000.	76	29472	No
17	GOM_TRA_1PNPDE20071020_013549_000000452062_00361_29473_2116.N1	20-OCT-2007 01:35:49	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	29473	No
18	GOM_TRA_1PNPDE20071020_014129_000000492062_00361_29473_2117.N1	20-OCT-2007 01:41:29	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29473	No
19	GOM_TRA_1PNPDE20071020_015258_000000452062_00361_29473_2118.N1	20-OCT-2007 01:52:58	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	29473	No
20	GOM_TRA_1PNPDE20071020_020142_000000432062_00361_29473_2119.N1	20-OCT-2007 02:01:42	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	29473	No
21	GOM_TRA_1PNPDE20071020_021115_000000362062_00361_29473_2120.N1	20-OCT-2007 02:11:15	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29473	No
22	GOM_TRA_1PNPDE20071020_021510_000000362062_00361_29473_2121.N1	20-OCT-2007 02:15:10	Bright	36.000	58	21Alp And	2.0730	11000.	72	29473	No
23	GOM_TRA_1PNPDE20071020_021726_000000382062_00361_29473_2122.N1	20-OCT-2007 02:17:26	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29473	No
24	GOM_TRA_1PNPDE20071020_022304_000000362062_00361_29473_2123.N1	20-OCT-2007 02:23:04	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	29473	No
25	GOM_TRA_1PNPDE20071020_022424_000000362062_00361_29473_2124.N1	20-OCT-2007 02:24:24	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29473	No
26	GOM_TRA_1PNPDE20071020_023212_000000322062_00361_29473_2125.N1	20-OCT-2007 02:32:12	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29473	No
27	GOM_TRA_1PNPDE20071020_024027_000000372062_00361_29473_2289.N1	20-OCT-2007 02:40:27	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29473	No
28	GOM_TRA_1PNPDE20071020_024201_000000382062_00361_29473_2290.N1	20-OCT-2007 02:42:01	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	29473	No
29	GOM_TRA_1PNPDE20071020_024528_000000532062_00361_29473_2291.N1	20-OCT-2007 02:45:28	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	29473	No
30	GOM_TRA_1PNPDE20071020_025317_000000412062_00361_29473_2292.N1	20-OCT-2007 02:53:17	Bright	40.500	51	41Gam1Leo	2.0100	4500.0	81	29473	No
31	GOM_TRA_1PNPDE20071020_025557_000000432062_00361_29473_2293.N1	20-OCT-2007 02:55:57	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	29473	No
32	GOM_TRA_1PNPDE20071020_031308_000000442062_00361_29473_2294.N1	20-OCT-2007 03:13:08	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	29473	No
33	GOM_TRA_1PNPDE20071020_031504_000000382062_00361_29473_2295.N1	20-OCT-2007 03:15:04	Dark	38.000	91	Kap Vel	2.4900	26000.	76	29473	No
34	GOM_TRA_1PNPDE20071020_031626_000000432062_00362_29474_2296.N1	20-OCT-2007 03:16:26	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	29474	No
35	GOM_TRA_1PNPDE20071020_032205_000000482062_00362_29474_2297.N1	20-OCT-2007 03:22:05	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29474	No
36	GOM_TRA_1PNPDE20071020_033334_000000442062_00362_29474_2298.N1	20-OCT-2007 03:33:34	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	29474	No
37	GOM_TRA_1PNPDE20071020_034218_000000432062_00362_29474_2299.N1	20-OCT-2007 03:42:18	Straylight	42.500	52	16Bet Cet	2.0370	4500.0	85	29474	No
38	GOM_TRA_1PNPDE20071020_035151_000000362062_00362_29474_2300.N1	20-OCT-2007 03:51:51	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29474	No
39	GOM_TRA_1PNPDE20071020_035546_000000362062_00362_29474_2301.N1	20-OCT-2007 03:55:46	Bright	35.500	58	21Alp And	2.0730	11000.	71	29474	No
40	GOM_TRA_1PNPDE20071020_035801_000000402062_00362_29474_2302.N1	20-OCT-2007 03:58:01	Bright	39.500	53	43Bet And	2.0480	3300.0	79	29474	No
41	GOM_TRA_1PNPDE20071020_040340_000000372062_00362_29474_2303.N1	20-OCT-2007 04:03:40	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29474	No
42	GOM_TRA_1PNPDE20071020_040459_000000442062_00362_29474_2304.N1	20-OCT-2007 04:04:59	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	29474	No
43	GOM_TRA_1PNPDE20071020_041248_000000332062_00362_29474_2305.N1	20-OCT-2007 04:12:48	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29474	No
44	GOM_TRA_1PNPDE20071020_042103_000000372062_00362_29474_2447.N1	20-OCT-2007 04:21:03	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29474	No
45	GOM_TRA_1PNPDE20071020_042237_000000362062_00362_29474_2448.N1	20-OCT-2007 04:22:37	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29474	No
46	GOM_TRA_1PNPDE20071020_042604_000000352062_00362_29474_2449.N1	20-OCT-2007 04:26:04	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	29474	No
47	GOM_TRA_1PNPDE20071020_043353_000000412062_00362_29474_2450.N1	20-OCT-2007 04:33:53	Bright	41.000	51	41Gam1Leo	2.0100	4500.0	82	29474	No
48	GOM_TRA_1PNPDE20071020_043633_000000422062_00362_29474_2451.N1	20-OCT-2007 04:36:33	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	29474	No
49	GOM_TRA_1PNPDE20071020_045344_000000482062_00362_29474_2452.N1	20-OCT-2007 04:53:44	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	29474	No
50	GOM_TRA_1PNPDE20071020_045540_000000382062_00362_29474_2453.N1	20-OCT-2007 04:55:40	Dark	37.500	91	Kap Vel	2.4900	26000.	75	29474	No

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



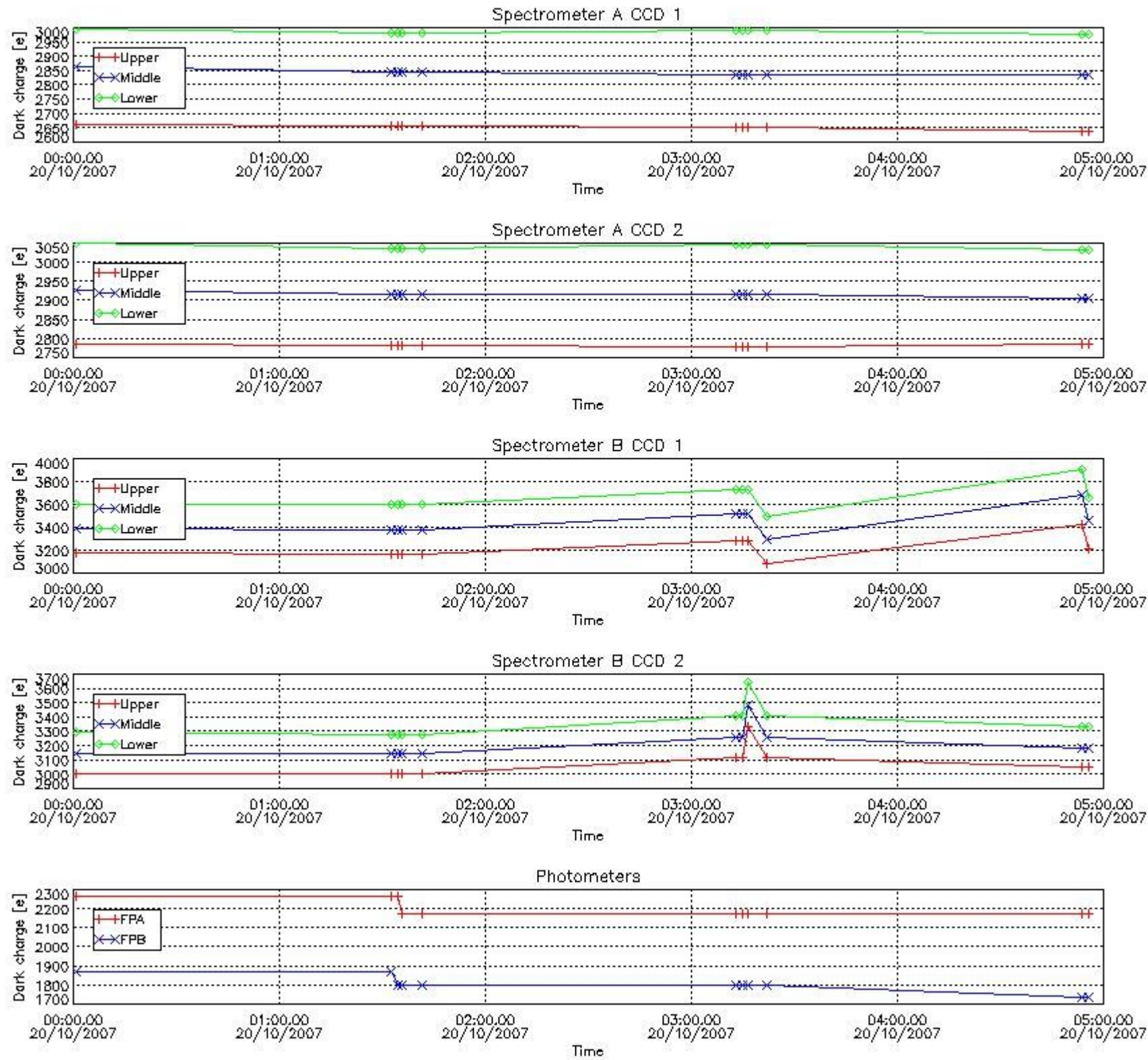
4. Overview of dark signal processing per product

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



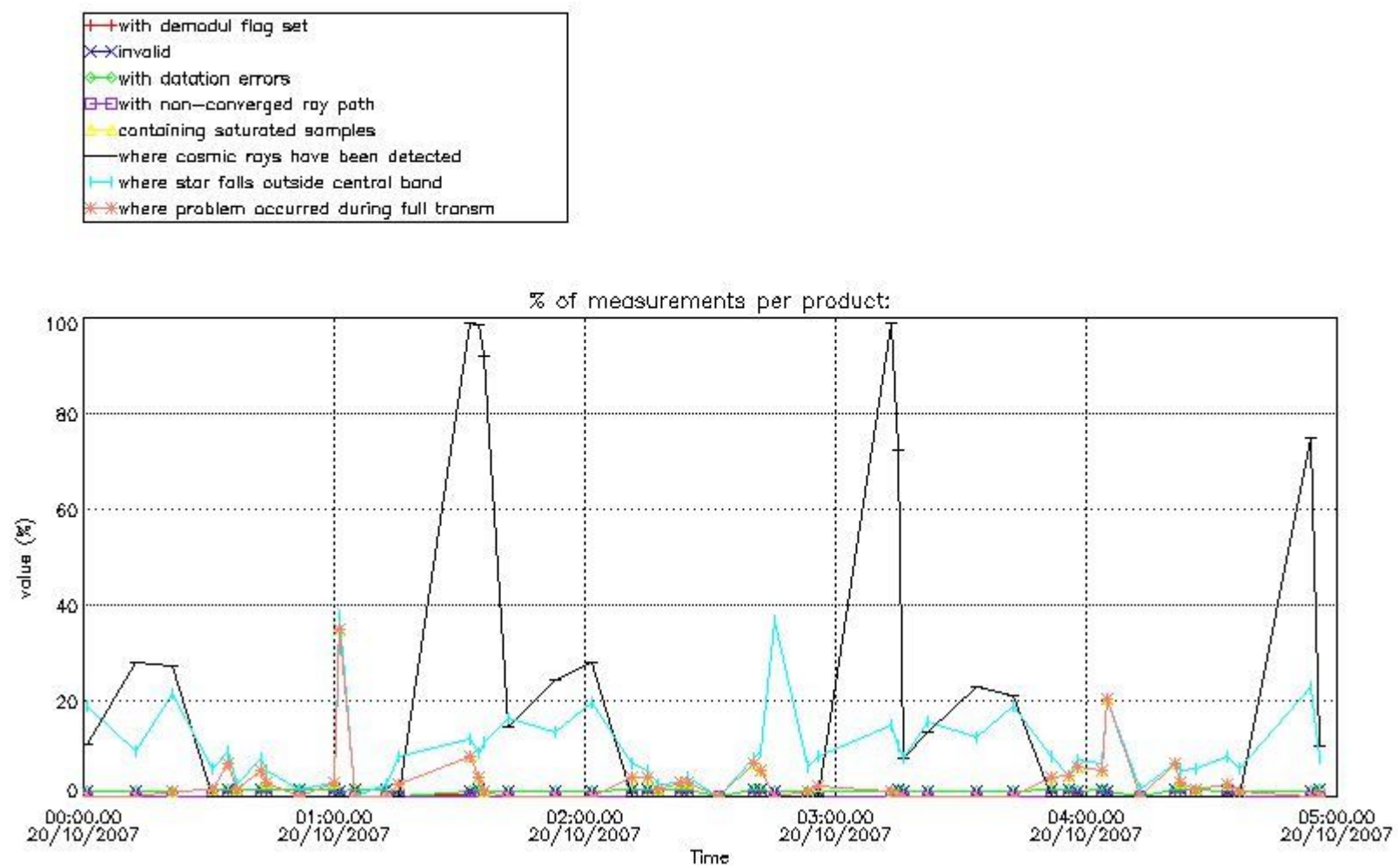
5. Demodulation flag and quality information monitoring

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.

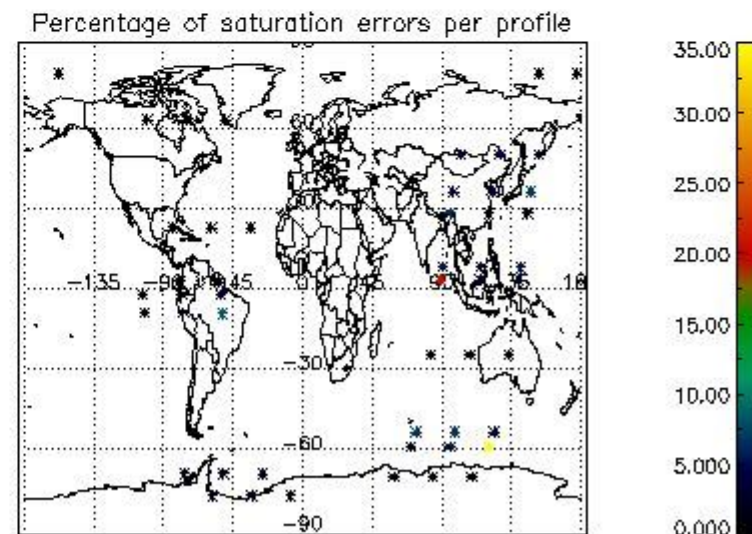
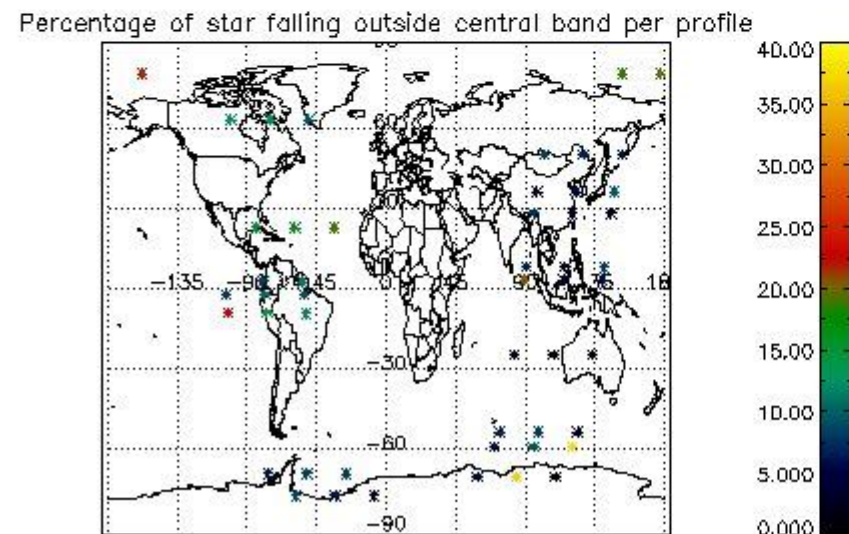
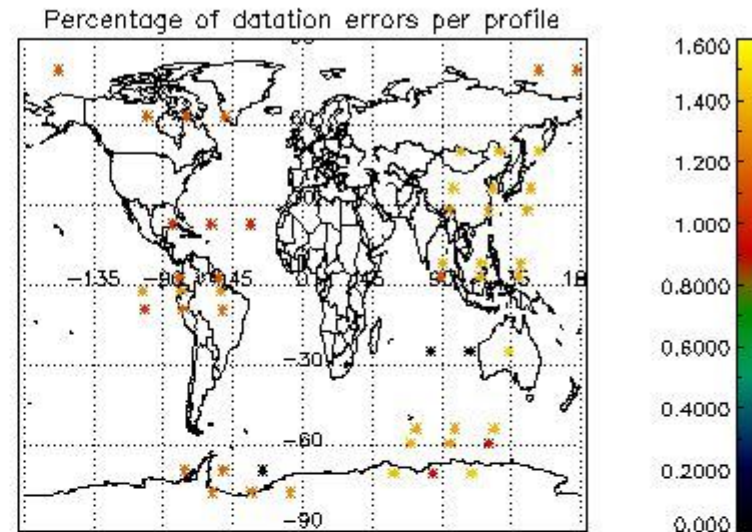
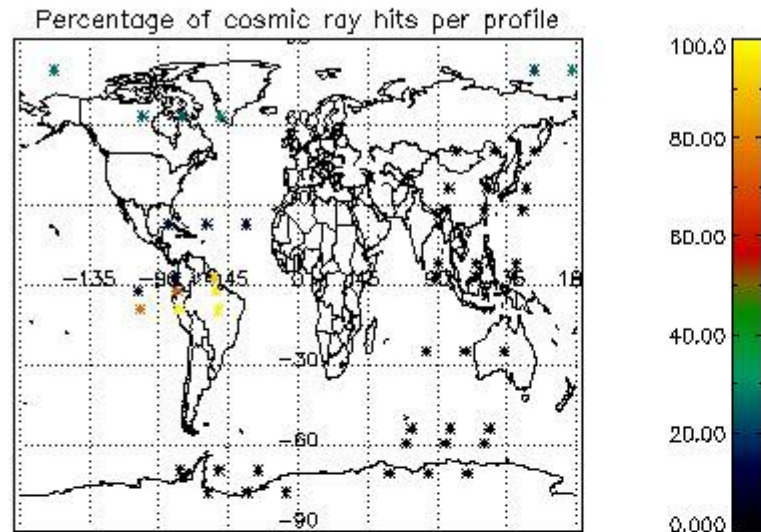
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



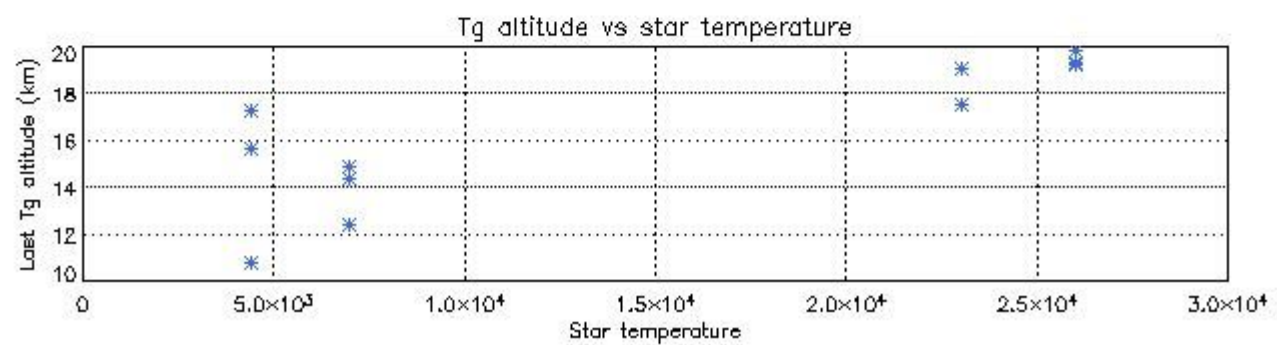
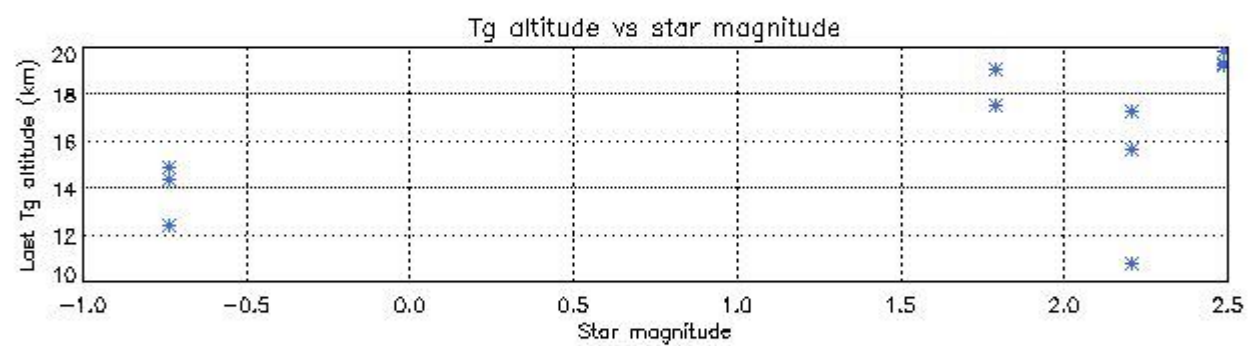
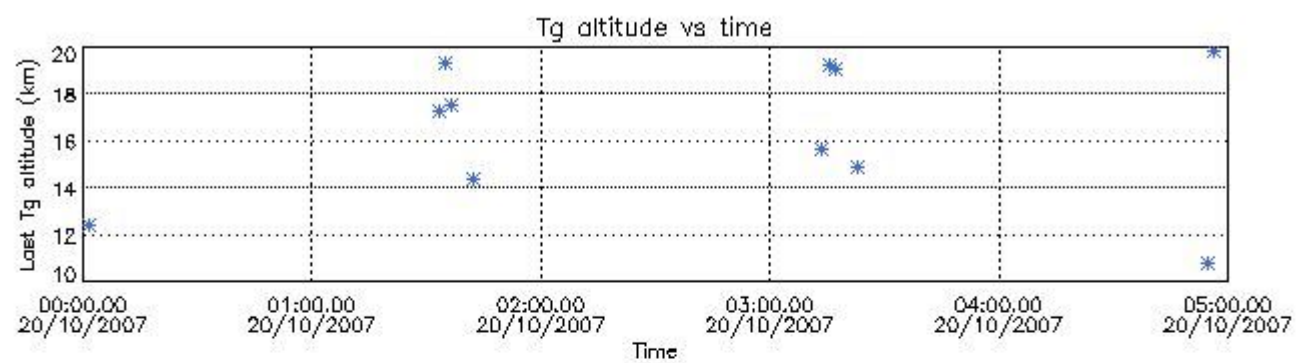
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.370	20.346	NaN
St. deviation:	3.0266	5.4607	NaN
Maximum:	19.790	31.388	NaN
Minimum:	10.755	3.7689	NaN
Number of data:	11.000	33.000	NaN

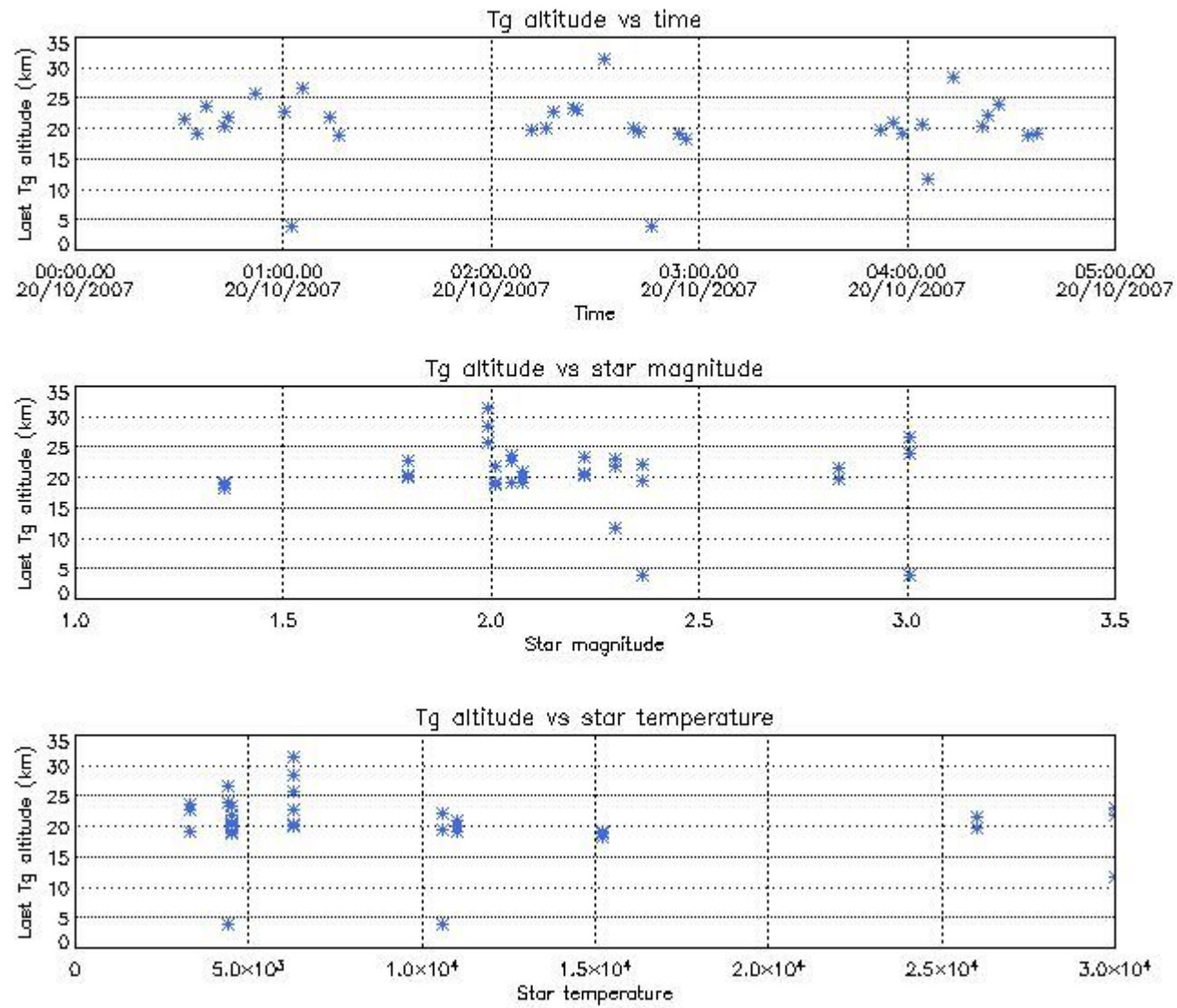
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

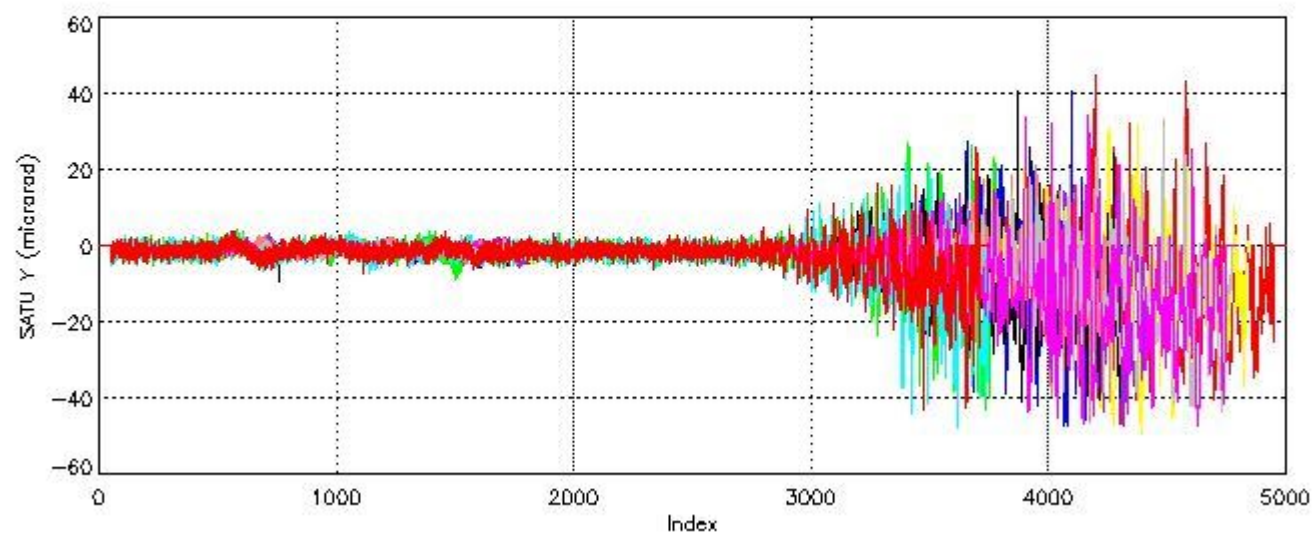
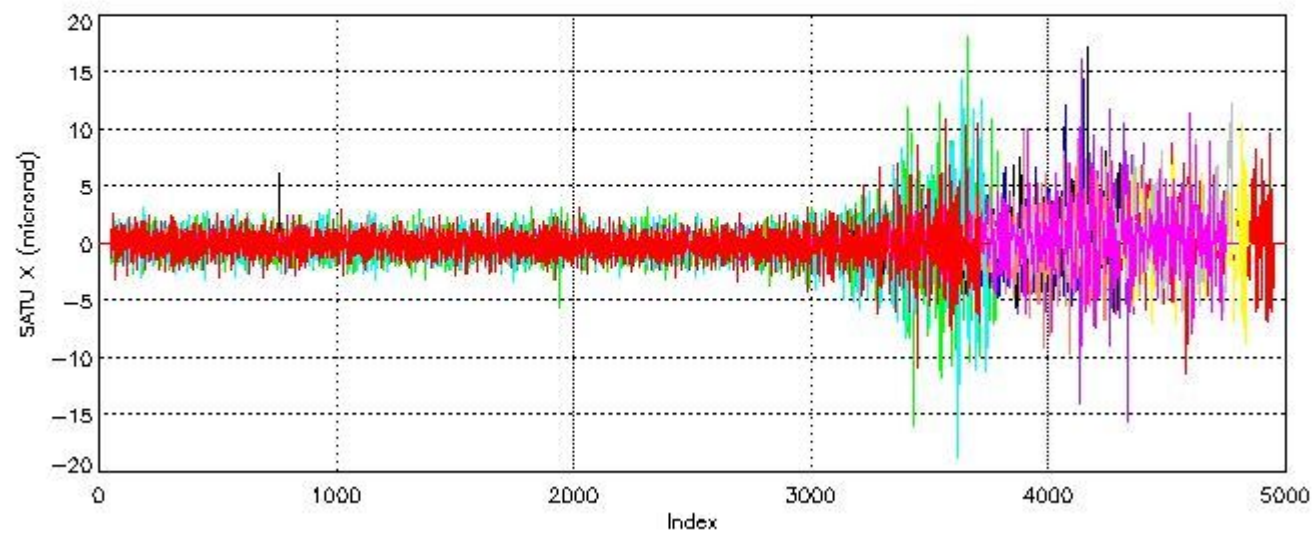


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12877	-1.1972	0.085539	-1.2401
St. deviation:	0.46422	1.0669	0.65907	1.3819
Maximum:	6.2000	4.1000	6.0000	6.0000
Minimum:	-3.2000	-9.6000	-4.8000	-8.2000

Number of data:	10700.	10700.	28250.	28250.
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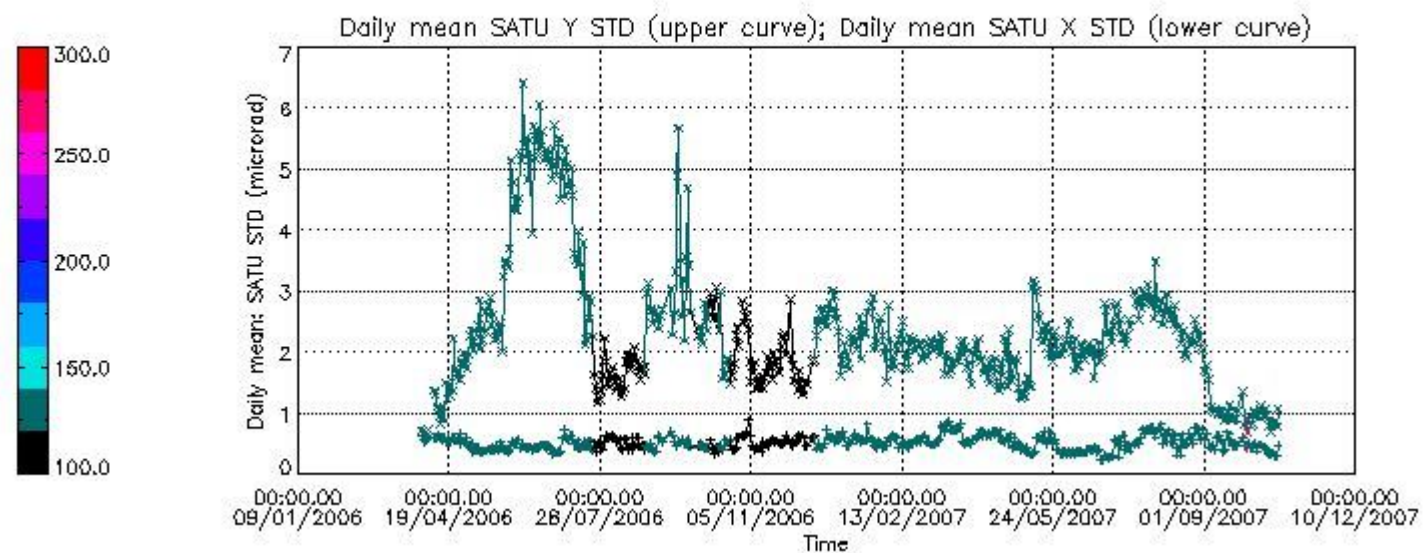
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

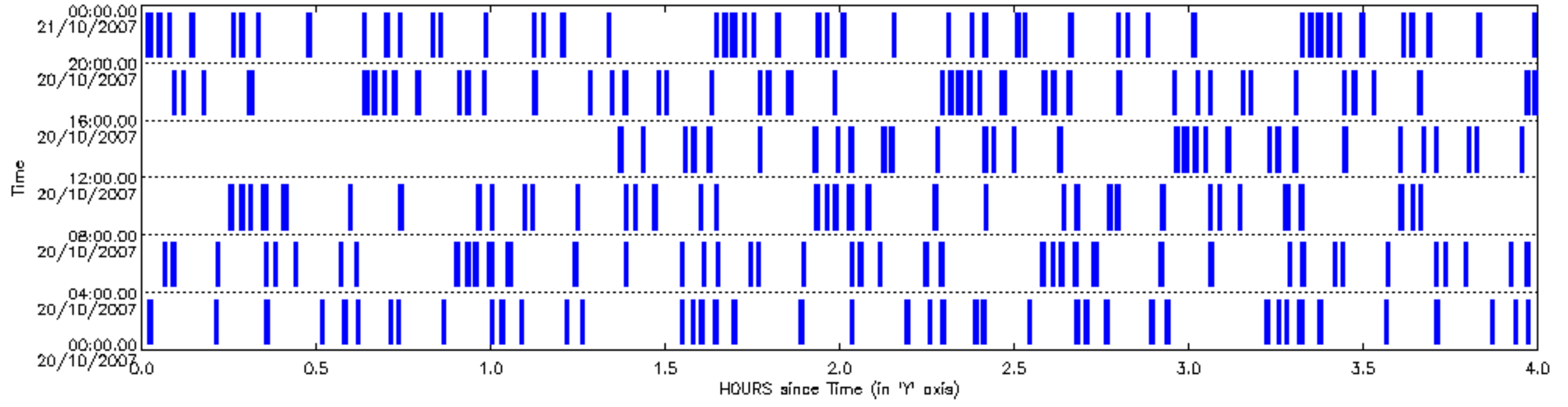
Lower curve: STD of SATU X axis

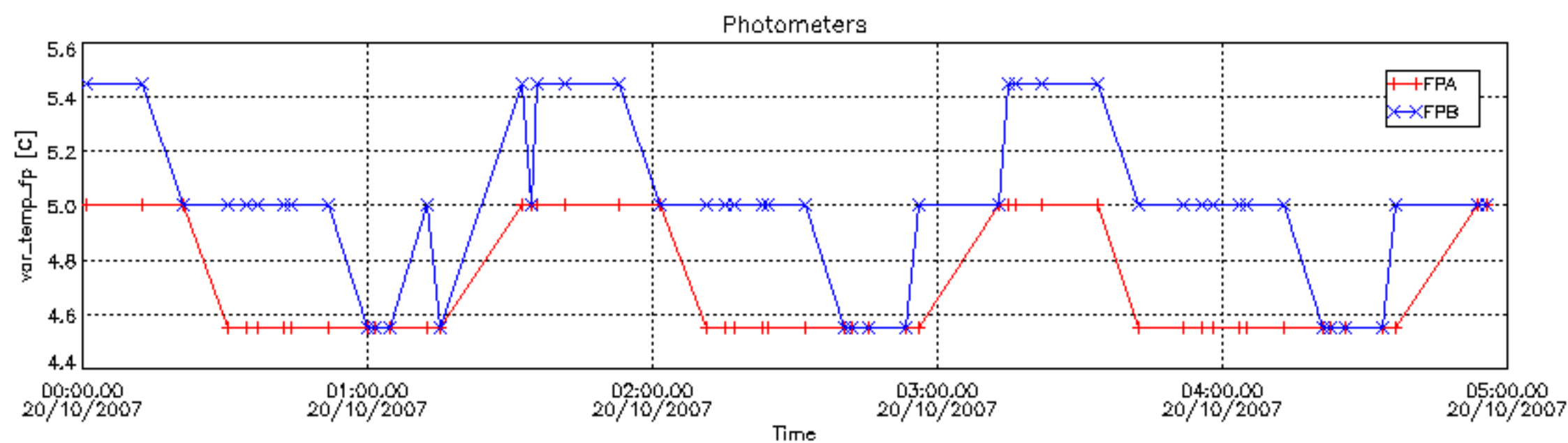
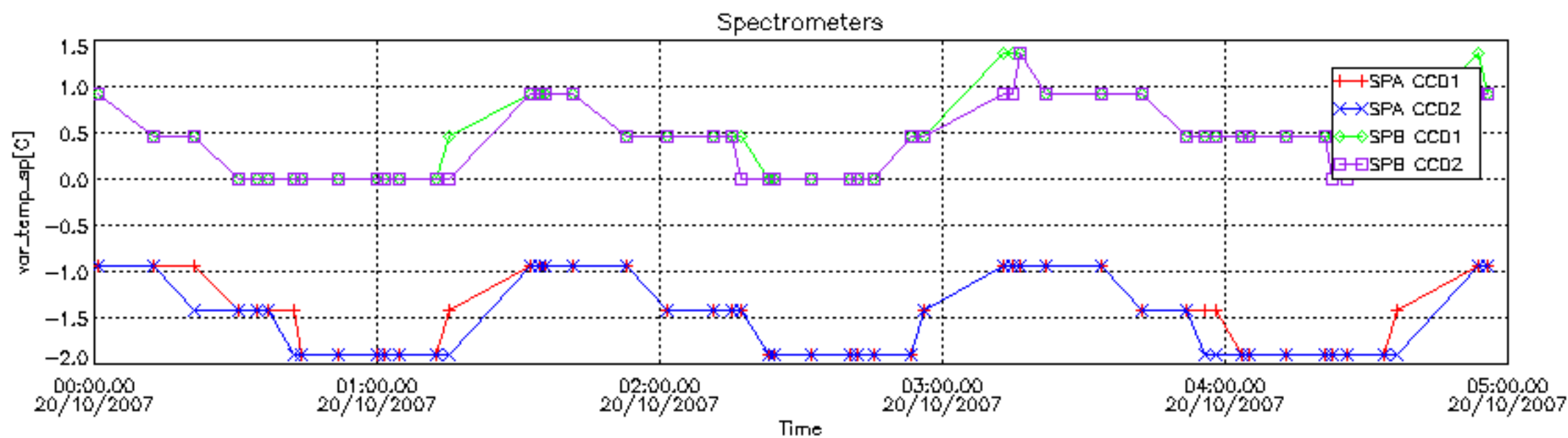


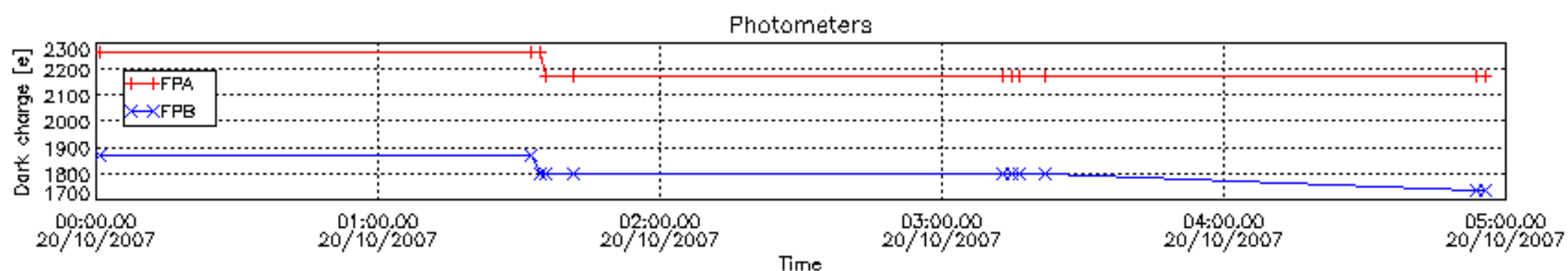
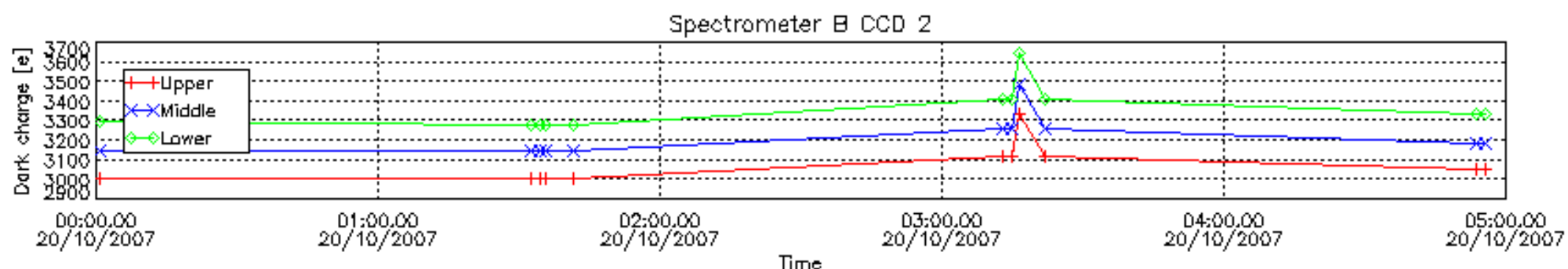
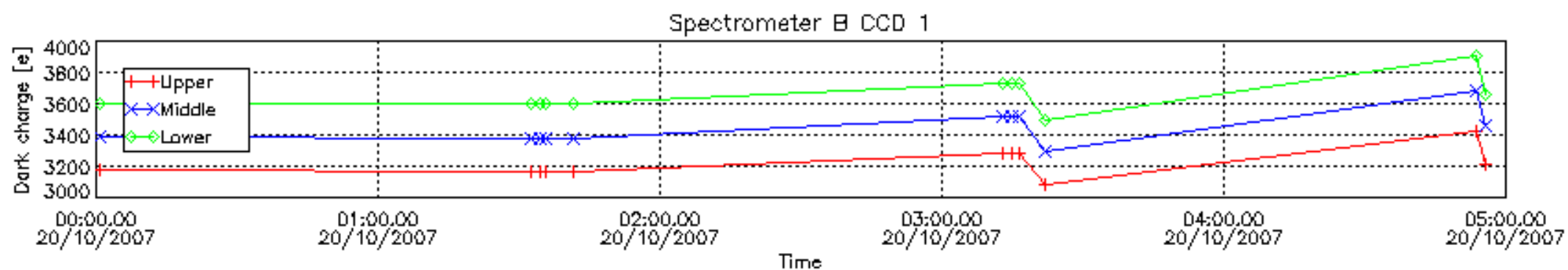
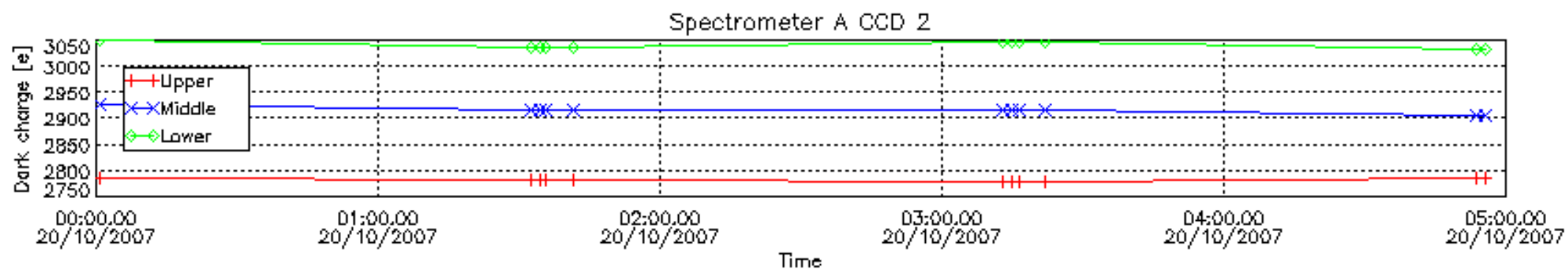
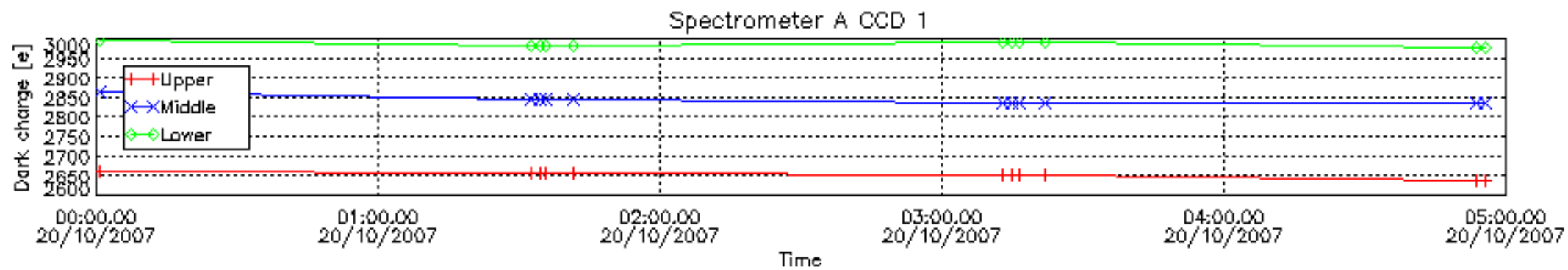
8. Auxiliary Data Files used for the production reported in section 2.4

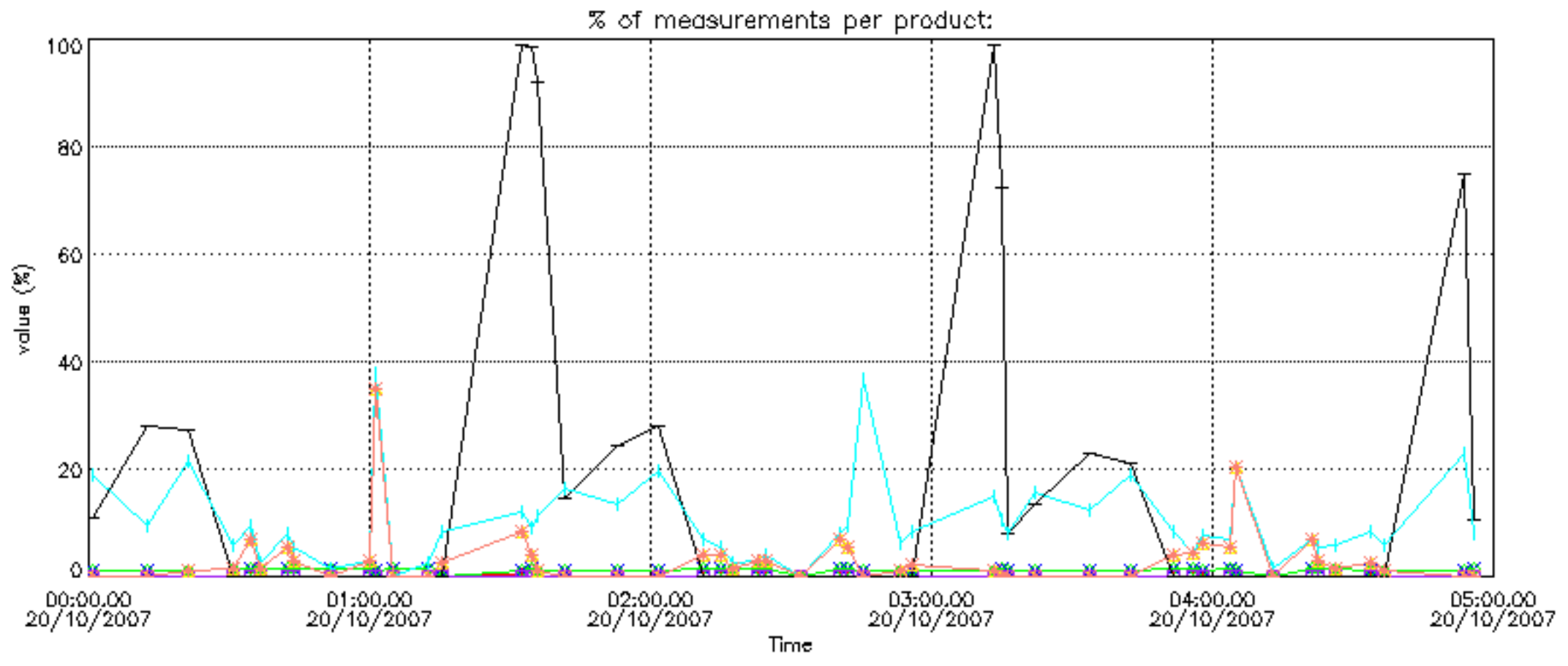
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-OCT-2007 00:00:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071019_103017_20071018_000000_20100101_000000	1	20-OCT-2007 00:00:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-OCT-2007 00:00:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-OCT-2007 00:00:52
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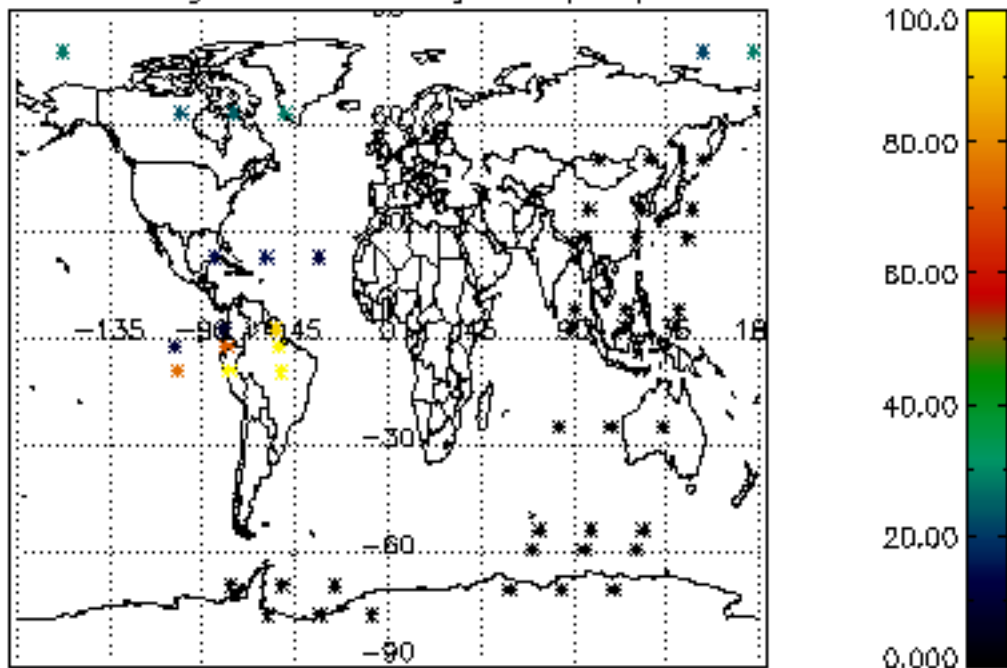




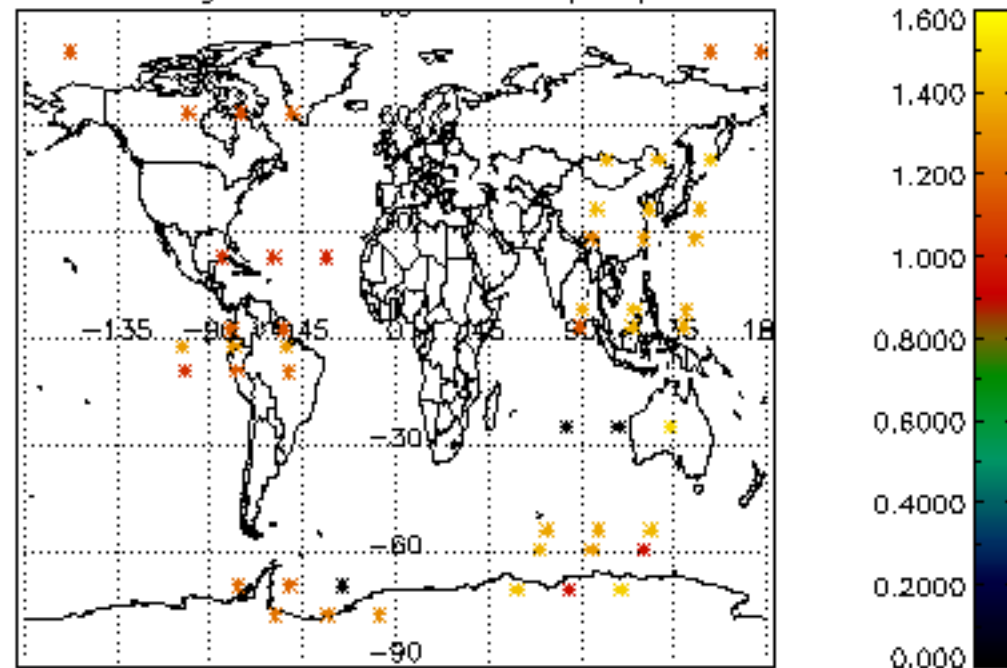




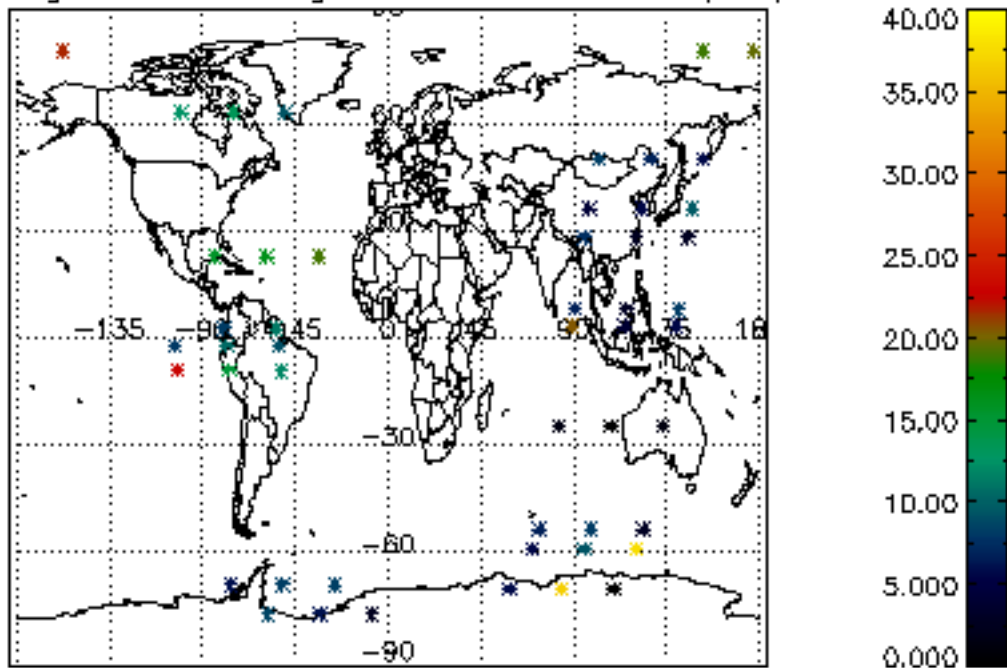
Percentage of cosmic ray hits per profile



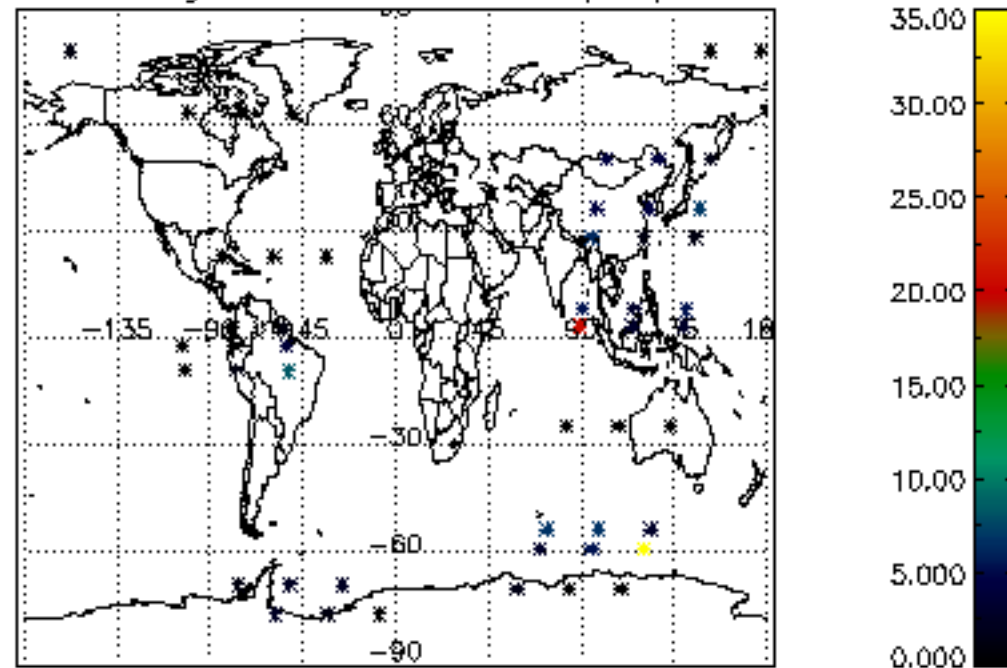
Percentage of datation errors per profile



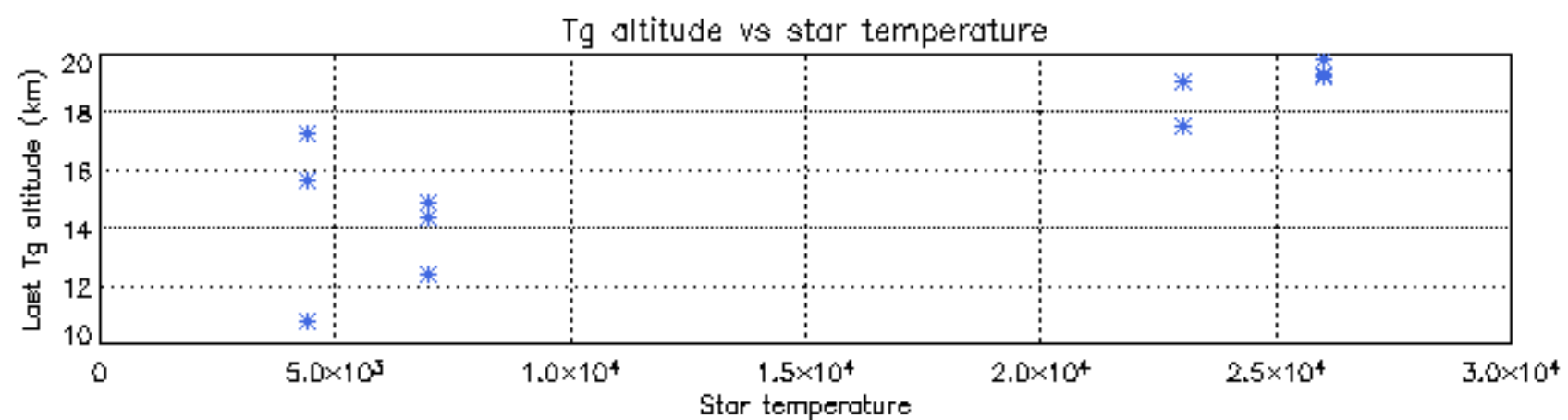
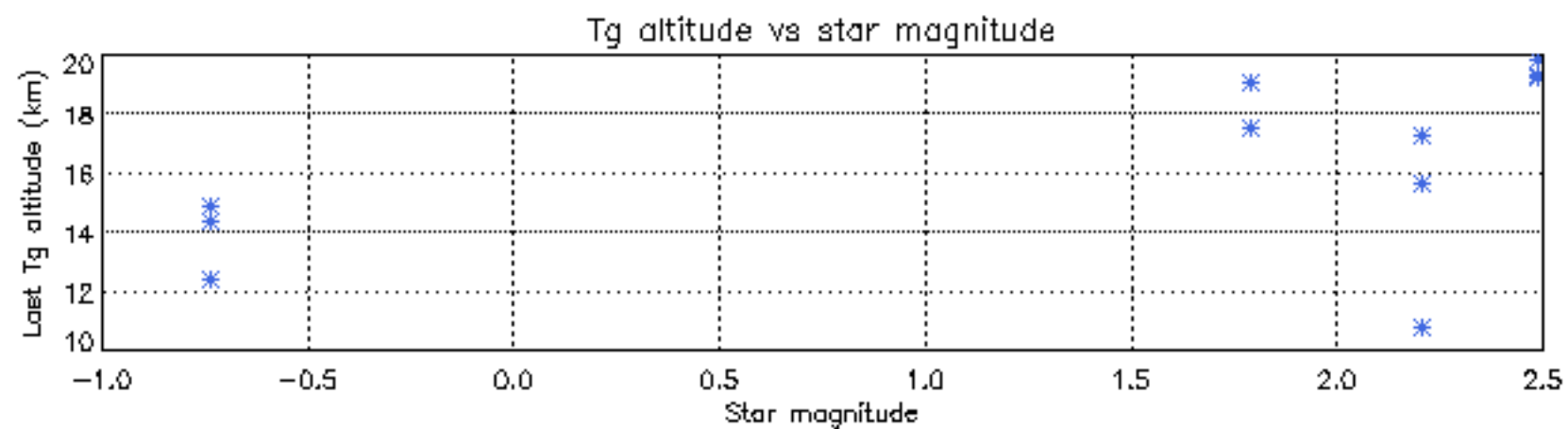
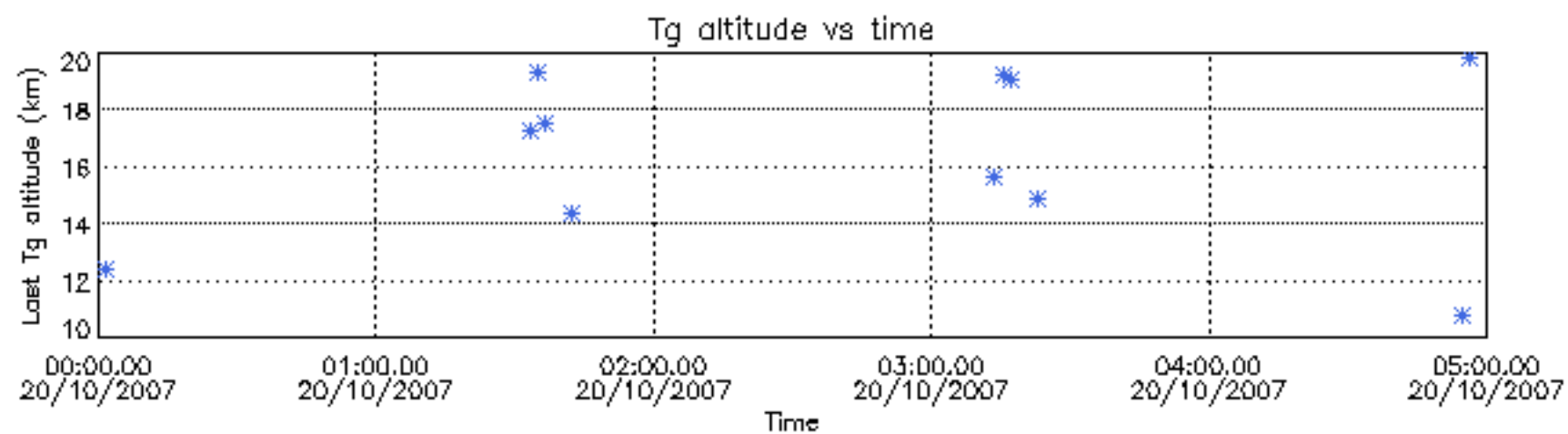
Percentage of star falling outside central band per profile



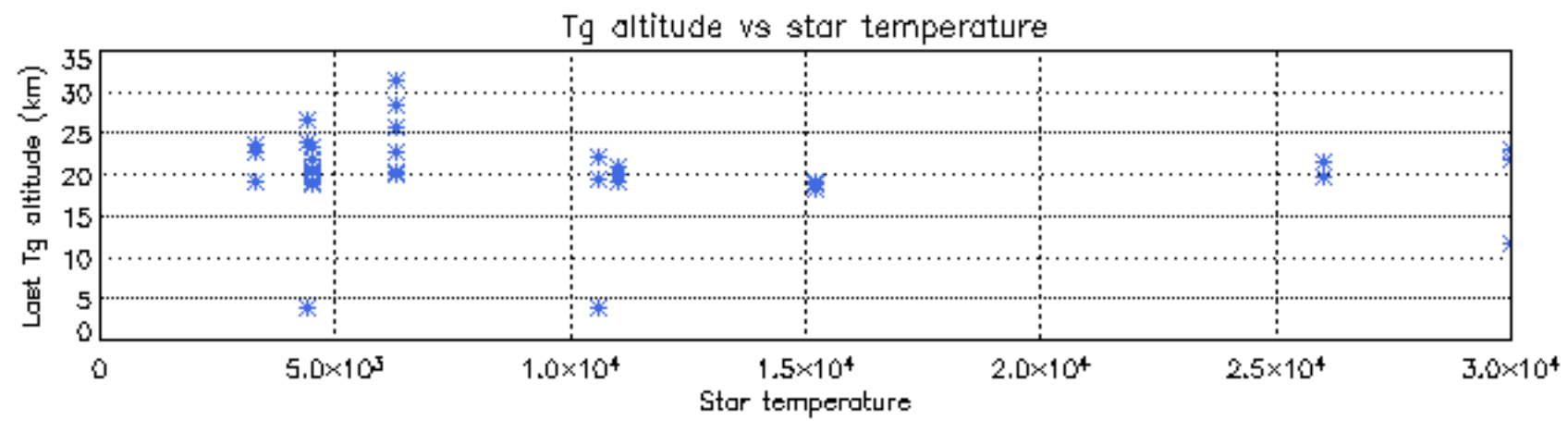
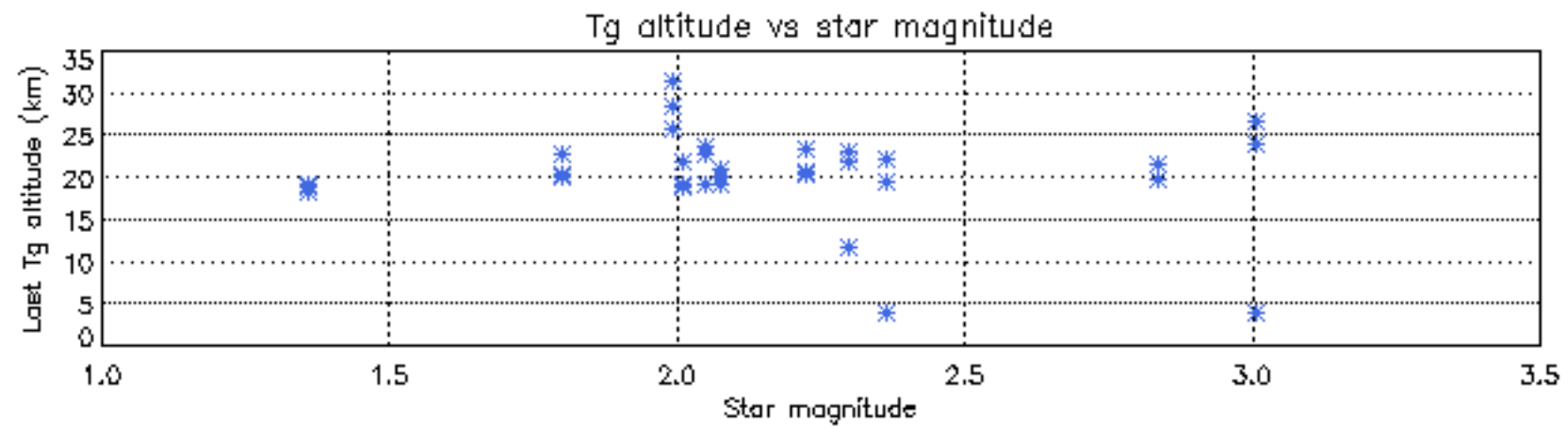
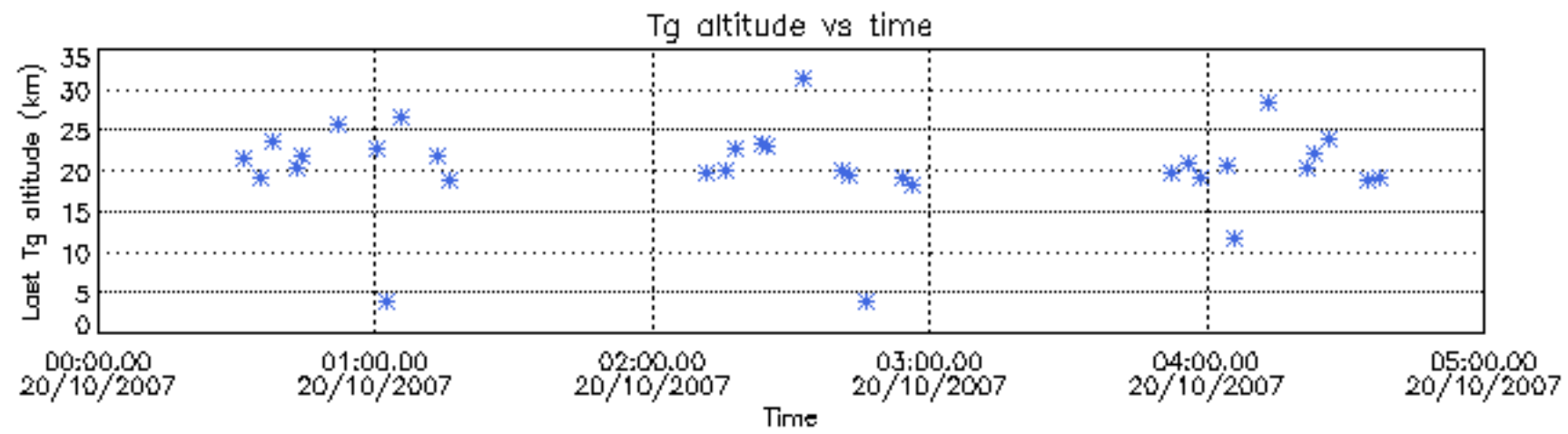
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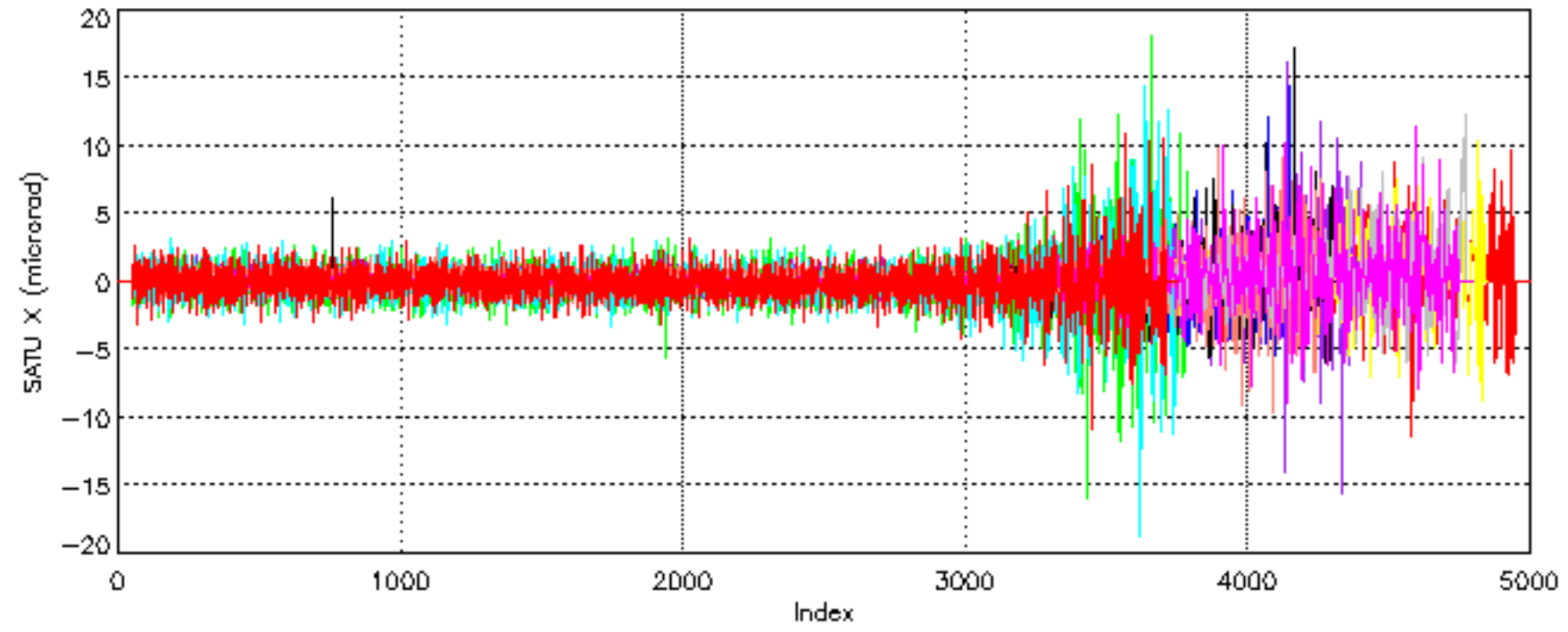


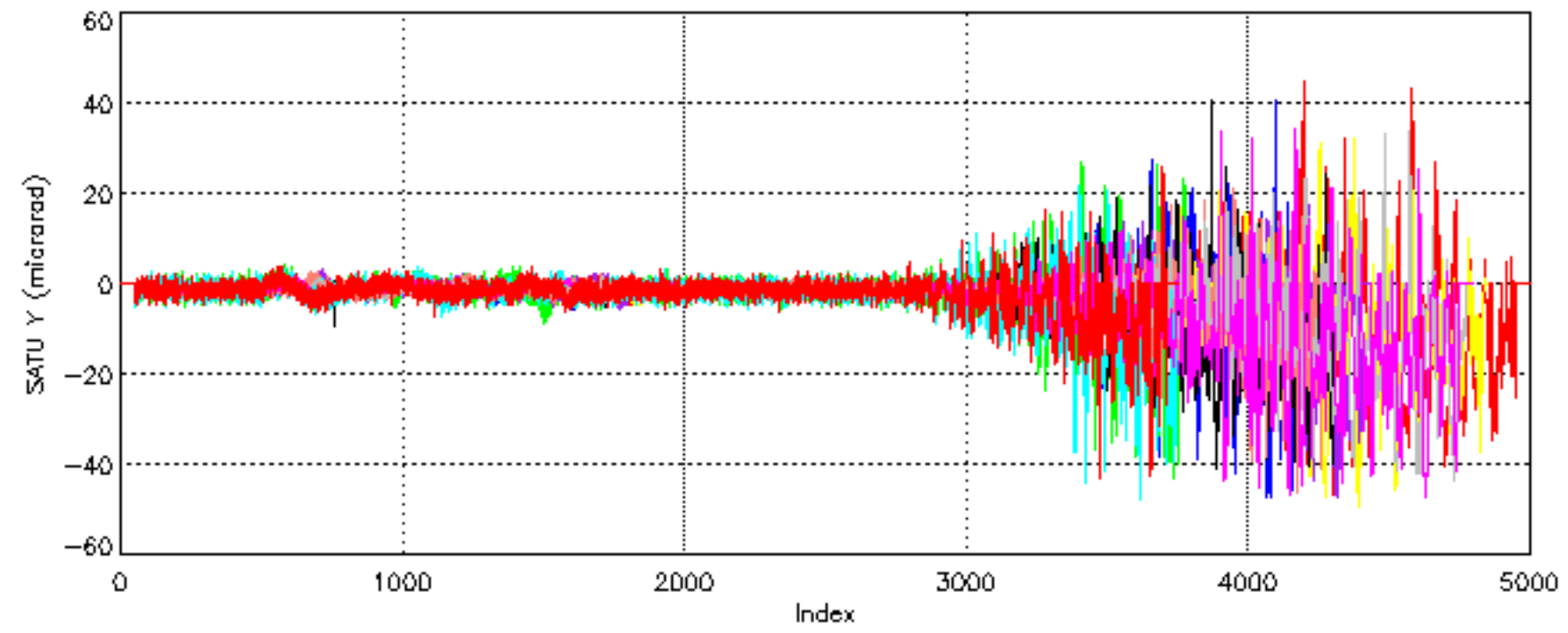
Tangent altitude at which the star is lost

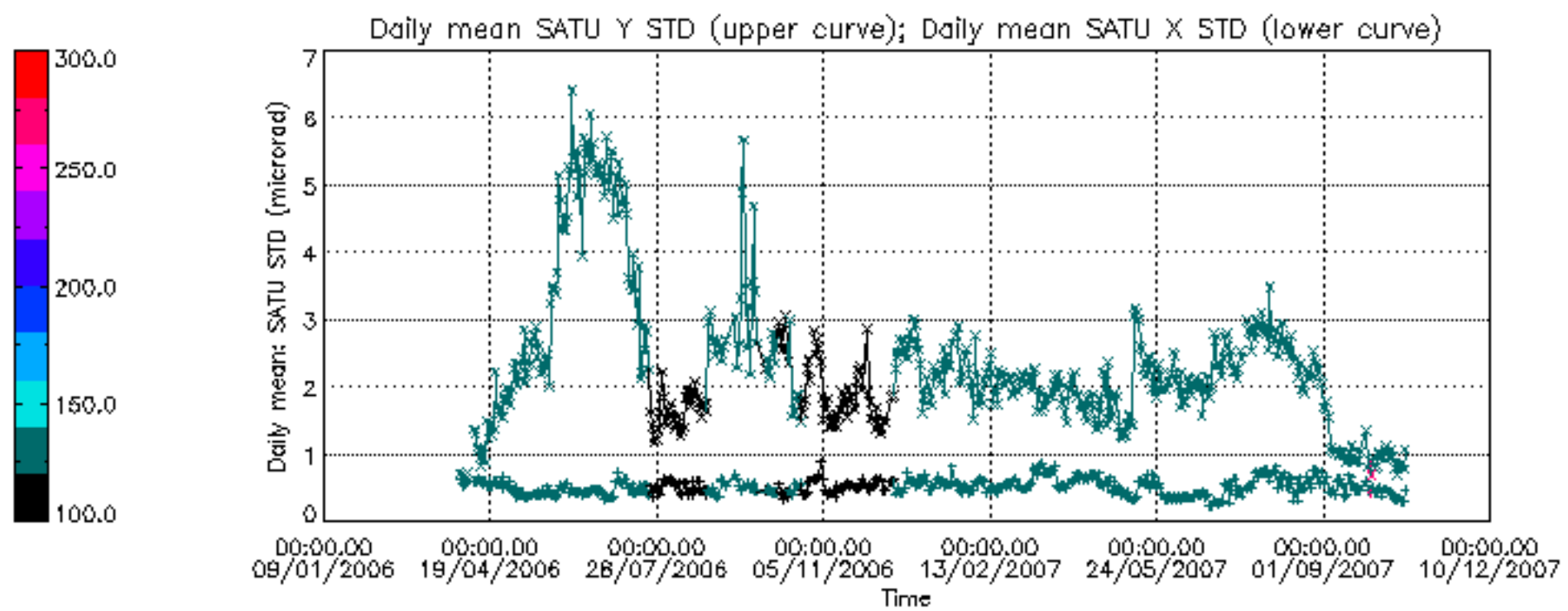


Tangent altitude at which the star is lost









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10; 5896.8; 01-OCT-2007 09:52:54; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;29205
11; 5993.4; 01-OCT-2007 09:54:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29205
12; 6121.9; 01-OCT-2007 09:56:39; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29205
13; 6206.1; 01-OCT-2007 09:58:04; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29205
14; 6767.7; 01-OCT-2007 10:07:25; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29205
15; 6855.4; 01-OCT-2007 10:08:53; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29205
16; 7177.2; 01-OCT-2007 10:14:15; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 1;29205
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 2; 2386.2; 01-OCT-2007 10:35:00; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29206
 3; 2951.6; 01-OCT-2007 10:44:25; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29206
 4; 3428.5; 01-OCT-2007 10:52:22; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29206
 5; 3905.5; 01-OCT-2007 11:00:19; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29206
 6; 3995.6; 01-OCT-2007 11:01:49; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29206
 7; 4587.7; 01-OCT-2007 11:11:41; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;29206
 8; 5161.2; 01-OCT-2007 11:21:15; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29206
 9; 5742.0; 01-OCT-2007 11:30:55; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29206
10; 5897.3; 01-OCT-2007 11:33:31; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;29206
11; 5994.1; 01-OCT-2007 11:35:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29206
12; 6122.5; 01-OCT-2007 11:37:16; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29206
13; 6206.8; 01-OCT-2007 11:38:40; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;29206
14; 6768.0; 01-OCT-2007 11:48:01; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29206
15; 6855.6; 01-OCT-2007 11:49:29; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29206
16; 7177.4; 01-OCT-2007 11:54:51; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29206
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 2; 2386.3; 01-OCT-2007 12:15:36; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29207
 3; 2951.3; 01-OCT-2007 12:25:01; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29207
 4; 3428.5; 01-OCT-2007 12:32:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29207
 5; 3905.6; 01-OCT-2007 12:40:55; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29207
 6; 3995.7; 01-OCT-2007 12:42:25; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;29207
 7; 4587.9; 01-OCT-2007 12:52:17; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29207
 8; 5161.7; 01-OCT-2007 13:01:51; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29207
 9; 5742.4; 01-OCT-2007 13:11:32; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;29207
10; 5897.8; 01-OCT-2007 13:14:07; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;29207
11; 5994.8; 01-OCT-2007 13:15:44; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29207
12; 6123.3; 01-OCT-2007 13:17:53; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29207
13; 6207.6; 01-OCT-2007 13:19:17; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;29207
14; 6768.4; 01-OCT-2007 13:28:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29207
15; 6856.1; 01-OCT-2007 13:30:05; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29207
16; 7177.7; 01-OCT-2007 13:35:27; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;29207
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 2; 2386.3; 01-OCT-2007 13:56:12; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29208
 3; 2951.2; 01-OCT-2007 14:05:36; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29208
 4; 3428.6; 01-OCT-2007 14:13:34; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29208
 5; 3905.7; 01-OCT-2007 14:21:31; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29208
 6; 3995.9; 01-OCT-2007 14:23:01; Bright; 32.5; 82; 48Bet UMa ; 2.37; 10600;occ; 65; 0;29208
 7; 4588.1; 01-OCT-2007 14:32:53; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29208
 8; 5162.2; 01-OCT-2007 14:42:27; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29208
 9; 5742.8; 01-OCT-2007 14:52:08; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29208
10; 5898.4; 01-OCT-2007 14:54:44; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29208
11; 5995.6; 01-OCT-2007 14:56:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29208
12; 6124.1; 01-OCT-2007 14:58:29; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29208
13; 6208.4; 01-OCT-2007 14:59:54; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;29208
14; 6768.8; 01-OCT-2007 15:09:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29208
15; 6856.5; 01-OCT-2007 15:10:42; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29208
16; 7178.0; 01-OCT-2007 15:16:03; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;29208
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 2; 2386.4; 01-OCT-2007 15:36:48; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29209
 3; 2950.8; 01-OCT-2007 15:46:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29209
 4; 3428.6; 01-OCT-2007 15:54:10; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29209
 5; 3905.9; 01-OCT-2007 16:02:07; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29209
 6; 3996.1; 01-OCT-2007 16:03:37; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;29209
 7; 4588.3; 01-OCT-2007 16:13:29; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29209
 8; 5162.6; 01-OCT-2007 16:23:04; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29209
 9; 5743.3; 01-OCT-2007 16:32:44; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29209

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10; 5899.1; 01-OCT-2007 16:35:20; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29209
11; 5996.4; 01-OCT-2007 16:36:58; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29209
12; 6124.9; 01-OCT-2007 16:39:06; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29209
13; 6209.2; 01-OCT-2007 16:40:30; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29209
14; 6769.3; 01-OCT-2007 16:49:50; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29209
15; 6857.0; 01-OCT-2007 16:51:18; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;29209
16; 7178.5; 01-OCT-2007 16:56:40; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29209
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 2; 1558.1; 01-OCT-2007 17:03:35; Dark ; 25.0; 52; 16Bet Cet ; 2.04; 4500;occ; 50; 0;29210
 3; 2168.1; 01-OCT-2007 17:13:45; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29210
 4; 2386.3; 01-OCT-2007 17:17:23; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29210
 5; 2950.6; 01-OCT-2007 17:26:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29210
 6; 3428.6; 01-OCT-2007 17:34:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29210
 7; 3905.9; 01-OCT-2007 17:42:43; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29210
 8; 3996.2; 01-OCT-2007 17:44:13; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;29210
 9; 4588.5; 01-OCT-2007 17:54:06; Bright; 41.0; 166; 17Eps Leo ; 2.98; 6000;occ; 82; 0;29210
10; 5163.0; 01-OCT-2007 18:03:40; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29210
11; 5743.6; 01-OCT-2007 18:13:21; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29210
12; 5899.6; 01-OCT-2007 18:15:57; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;29210
13; 5997.2; 01-OCT-2007 18:17:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29210
14; 6125.6; 01-OCT-2007 18:19:43; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29210
15; 6210.0; 01-OCT-2007 18:21:07; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29210
16; 6769.7; 01-OCT-2007 18:30:27; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29210
17; 6857.4; 01-OCT-2007 18:31:55; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29210
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 2; 1558.1; 01-OCT-2007 18:44:11; Dark ; 25.0; 52; 16Bet Cet ; 2.04; 4500;occ; 50; 0;29211
 3; 2168.2; 01-OCT-2007 18:54:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29211
 4; 2386.4; 01-OCT-2007 18:58:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29211
 5; 2950.4; 01-OCT-2007 19:07:24; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29211
 6; 3428.5; 01-OCT-2007 19:15:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29211
 7; 3906.0; 01-OCT-2007 19:23:19; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;29211
 8; 3996.3; 01-OCT-2007 19:24:49; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29211
 9; 4588.8; 01-OCT-2007 19:34:42; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29211
10; 5163.4; 01-OCT-2007 19:44:17; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29211
11; 5743.9; 01-OCT-2007 19:53:57; Dark ; 39.5; 65; Lam Vel ; 2.20; 4400;occ; 79; 0;29211
12; 5900.1; 01-OCT-2007 19:56:33; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29211
13; 5997.9; 01-OCT-2007 19:58:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29211
14; 6126.3; 01-OCT-2007 20:00:20; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29211
15; 6210.7; 01-OCT-2007 20:01:44; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29211
16; 6770.0; 01-OCT-2007 20:11:03; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29211
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 3; -35.8; 02-OCT-2007 01:00:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29214
 4; 92.7; 02-OCT-2007 01:02:09; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29215
 5; 176.9; 02-OCT-2007 01:03:34; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;29215
 6; 735.2; 02-OCT-2007 01:12:52; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29215
 7; 822.8; 02-OCT-2007 01:14:20; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29215
 8; 1143.7; 02-OCT-2007 01:19:40; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;29215
 9; 1558.7; 02-OCT-2007 01:26:35; Dark ; 40.0; 52; 16Bet Cet ; 2.04; 4500;occ; 80; 0;29215
10; 2168.3; 02-OCT-2007 01:36:45; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29215
11; 2386.4; 02-OCT-2007 01:40:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29215
12; 2949.3; 02-OCT-2007 01:49:46; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29215
13; 3428.5; 02-OCT-2007 01:57:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29215
14; 3906.6; 02-OCT-2007 02:05:43; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29215
15; 3996.7; 02-OCT-2007 02:07:13; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29215
16; 4589.5; 02-OCT-2007 02:17:06; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29215
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 2; -290.5; 02-OCT-2007 02:36:22; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29215
 3; -133.6; 02-OCT-2007 02:38:59; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;29215
 4; -35.1; 02-OCT-2007 02:40:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29215
 5; 93.4; 02-OCT-2007 02:42:46; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29216
 6; 177.7; 02-OCT-2007 02:44:10; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29216
 7; 735.6; 02-OCT-2007 02:53:28; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29216

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8; 823.3; 02-OCT-2007 02:54:56; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29216
9; 1144.1; 02-OCT-2007 03:00:17; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29216
10; 1558.8; 02-OCT-2007 03:07:12; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29216
11; 2168.4; 02-OCT-2007 03:17:21; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29216
12; 2386.4; 02-OCT-2007 03:20:59; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29216
13; 2949.2; 02-OCT-2007 03:30:22; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29216
14; 3428.5; 02-OCT-2007 03:38:21; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29216
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2;-2039.1; 02-OCT-2007 03:47:50; Bright; 32.5; 82; 48Bet UMA ; 2.37; 10600;occ; 65; 0;29216
3;-1446.2; 02-OCT-2007 03:57:42; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29216
4; -870.7; 02-OCT-2007 04:07:18; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29216
5; -290.2; 02-OCT-2007 04:16:58; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29216
6; -133.1; 02-OCT-2007 04:19:36; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;29216
7; -34.3; 02-OCT-2007 04:21:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29216
8; 94.1; 02-OCT-2007 04:23:23; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29217
9; 178.4; 02-OCT-2007 04:24:47; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;29217
10; 736.0; 02-OCT-2007 04:34:05; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29217
11; 823.7; 02-OCT-2007 04:35:32; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;29217
12; 1144.4; 02-OCT-2007 04:40:53; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29217
13; 1559.0; 02-OCT-2007 04:47:48; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29217
14; 2168.3; 02-OCT-2007 04:57:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29217
15; 2386.4; 02-OCT-2007 05:01:35; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29217
16; 2948.9; 02-OCT-2007 05:10:58; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29217
17; 3428.4; 02-OCT-2007 05:18:57; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;29217
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071002_052655_000055932062_00105_29217_4457.N1
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2;-2039.0; 02-OCT-2007 05:28:26; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29217
3;-1446.1; 02-OCT-2007 05:38:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29217
4; -870.3; 02-OCT-2007 05:47:54; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29217
5; -289.8; 02-OCT-2007 05:57:35; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29217
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8; 94.9; 02-OCT-2007 06:04:00; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29218
9; 179.2; 02-OCT-2007 06:05:24; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29218
10; 736.3; 02-OCT-2007 06:14:41; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29218
11; 824.0; 02-OCT-2007 06:16:09; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29218
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13; 1559.1; 02-OCT-2007 06:28:24; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29218
14; 2168.4; 02-OCT-2007 06:38:33; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29218
15; 2386.3; 02-OCT-2007 06:42:11; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29218
16; 2948.6; 02-OCT-2007 06:51:33; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29218
17; 3428.4; 02-OCT-2007 06:59:33; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29218
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2;-2038.9; 02-OCT-2007 07:09:02; Bright; 45.5; 82; 48Bet UMA ; 2.37; 10600;occ; 91; 0;29218
3;-1445.9; 02-OCT-2007 07:18:55; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29218
4; -870.0; 02-OCT-2007 07:28:31; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29218
5; -289.4; 02-OCT-2007 07:38:11; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29218
6; -212.3; 02-OCT-2007 07:39:28; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29218
7; -131.9; 02-OCT-2007 07:40:49; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29218
8; -32.8; 02-OCT-2007 07:42:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29218
9; 95.6; 02-OCT-2007 07:44:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29219
10; 179.9; 02-OCT-2007 07:46:01; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29219
11; 736.7; 02-OCT-2007 07:55:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29219
12; 824.4; 02-OCT-2007 07:56:45; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
13; 1144.9; 02-OCT-2007 08:02:06; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29219
14; 1559.3; 02-OCT-2007 08:09:00; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29219
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2; 2168.4; 02-OCT-2007 08:19:09; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29219
3; 2386.3; 02-OCT-2007 08:22:47; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29219
4; 2948.3; 02-OCT-2007 08:32:09; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;29219
5; 3428.4; 02-OCT-2007 08:40:09; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29219
6; 3906.9; 02-OCT-2007 08:48:08; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;29219
7; 3997.2; 02-OCT-2007 08:49:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29219
8; 4590.2; 02-OCT-2007 08:59:31; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29219
9; 5166.4; 02-OCT-2007 09:09:07; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29219

```

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 11; 5824.3; 02-OCT-2007 09:20:05; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29219
 12; 5904.5; 02-OCT-2007 09:21:25; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;29219
 13; 6003.8; 02-OCT-2007 09:23:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29219
 14; 6132.3; 02-OCT-2007 09:25:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29219
 15; 6216.6; 02-OCT-2007 09:26:37; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29219
 16; 6773.0; 02-OCT-2007 09:35:54; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29219
 17; 6860.7; 02-OCT-2007 09:37:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29219
 18; 7181.1; 02-OCT-2007 09:42:42; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29219
 19; 7595.3; 02-OCT-2007 09:49:36; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29219

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 3; 2948.1; 02-OCT-2007 10:12:45; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29220
 4; 3428.4; 02-OCT-2007 10:20:45; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29220
 5; 3907.0; 02-OCT-2007 10:28:44; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29220
 6; 3997.4; 02-OCT-2007 10:30:14; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;29220
 7; 4590.4; 02-OCT-2007 10:40:07; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29220
 8; 5166.9; 02-OCT-2007 10:49:43; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29220
 9; 5747.3; 02-OCT-2007 10:59:24; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;29220
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 11; 5905.1; 02-OCT-2007 11:02:02; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29220
 12; 6004.5; 02-OCT-2007 11:03:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29220
 13; 6133.0; 02-OCT-2007 11:05:50; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29220
 14; 6217.3; 02-OCT-2007 11:07:14; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29220
 15; 6773.3; 02-OCT-2007 11:16:30; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29220
 16; 6861.0; 02-OCT-2007 11:17:57; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;29220
 17; 7181.3; 02-OCT-2007 11:23:18; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;29220
 18; 7595.4; 02-OCT-2007 11:30:12; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29220

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 3; 2947.8; 02-OCT-2007 11:53:20; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29221
 4; 3428.3; 02-OCT-2007 12:01:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29221
 5; 3907.1; 02-OCT-2007 12:09:19; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;29221
 6; 3997.4; 02-OCT-2007 12:10:50; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;29221
 7; 4590.6; 02-OCT-2007 12:20:43; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29221
 8; 5167.3; 02-OCT-2007 12:30:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29221
 9; 5747.6; 02-OCT-2007 12:40:00; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29221
 10; 5825.6; 02-OCT-2007 12:41:18; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;29221
 11; 5905.7; 02-OCT-2007 12:42:38; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;29221
 12; 6005.3; 02-OCT-2007 12:44:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29221
 13; 6133.7; 02-OCT-2007 12:46:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29221
 14; 6218.1; 02-OCT-2007 12:47:50; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;29221
 15; 6773.7; 02-OCT-2007 12:57:06; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29221
 16; 6861.4; 02-OCT-2007 12:58:34; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;29221
 17; 7181.6; 02-OCT-2007 13:03:54; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29221
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 3; 2386.4; 02-OCT-2007 13:24:35; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29222
 4; 2947.6; 02-OCT-2007 13:33:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29222
 5; 3428.3; 02-OCT-2007 13:41:57; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29222
 6; 3907.2; 02-OCT-2007 13:49:55; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29222
 7; 3997.5; 02-OCT-2007 13:51:26; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29222
 8; 4590.7; 02-OCT-2007 14:01:19; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29222
 9; 5167.8; 02-OCT-2007 14:10:56; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29222
 10; 5748.1; 02-OCT-2007 14:20:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29222
 11; 5826.4; 02-OCT-2007 14:21:55; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29222
 12; 5906.3; 02-OCT-2007 14:23:15; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29222
 13; 6006.1; 02-OCT-2007 14:24:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29222
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 15; 6218.9; 02-OCT-2007 14:28:27; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29222
 16; 6774.2; 02-OCT-2007 14:37:42; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29222
 17; 6861.9; 02-OCT-2007 14:39:10; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29222
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 3; 2169.0; 02-OCT-2007 20:03:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29226
 4; 2386.4; 02-OCT-2007 20:06:59; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29226
 5; 2946.6; 02-OCT-2007 20:16:19; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29226
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 7; 3907.6; 02-OCT-2007 20:32:20; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29226
 8; 3998.0; 02-OCT-2007 20:33:50; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29226
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 5; 101.6; 02-OCT-2007 21:09:30; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29227
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 8; 827.4; 02-OCT-2007 21:21:35; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;29227
 9; 1147.1; 02-OCT-2007 21:26:55; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29227
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 11; 2168.9; 02-OCT-2007 21:43:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29227
 12; 2386.4; 02-OCT-2007 21:47:35; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29227
 13; 2946.4; 02-OCT-2007 21:56:54; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;29227
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 15; 3907.7; 02-OCT-2007 22:12:56; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29227
 16; 3998.0; 02-OCT-2007 22:14:26; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;29227
 17; 4591.7; 02-OCT-2007 22:24:20; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29227
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 4; 102.4; 02-OCT-2007 22:50:06; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29228
 5; 186.7; 02-OCT-2007 22:51:31; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29228
 6; 740.1; 02-OCT-2007 23:00:44; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29228
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 10; 2169.0; 02-OCT-2007 23:24:33; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29228
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 12; 2946.1; 02-OCT-2007 23:37:30; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29228
 13; 3428.1; 02-OCT-2007 23:45:32; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29228
 14; 3907.8; 02-OCT-2007 23:53:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29228
 15; 3998.2; 02-OCT-2007 23:55:02; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29228
 16; 4591.9; 03-OCT-2007 00:04:56; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29228
 17; 5170.1; 03-OCT-2007 00:14:34; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29228

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 3; 2386.5; 02-OCT-2007 15:05:11; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;29223
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 5; 3428.4; 02-OCT-2007 15:22:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29223
 6; 3907.4; 02-OCT-2007 15:30:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29223
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 13; 6006.9; 02-OCT-2007 16:05:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29223
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 16; 6774.6; 02-OCT-2007 16:18:19; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29223
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071002_162507_000057552062_00112_29224_9005.N1

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 2; 1559.9; 02-OCT-2007 16:32:00; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;29224

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3; 2168.7; 02-OCT-2007 16:42:09; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29224
4; 2386.5; 02-OCT-2007 16:45:47; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29224
5; 2947.2; 02-OCT-2007 16:55:07; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29224
6; 3428.3; 02-OCT-2007 17:03:09; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29224
7; 3907.5; 02-OCT-2007 17:11:08; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29224
8; 3997.8; 02-OCT-2007 17:12:38; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;29224
9; 4591.4; 02-OCT-2007 17:22:32; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;29224
10; 5168.6; 02-OCT-2007 17:32:09; Dark ; 46.0; 48; 30Alp Hya ; 1.98; 4100;occ; 92; 0;29224
11; 5749.0; 02-OCT-2007 17:41:49; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29224
12; 5827.9; 02-OCT-2007 17:43:08; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29224
13; 5907.6; 02-OCT-2007 17:44:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29224
14; 6007.7; 02-OCT-2007 17:46:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29224
15; 6136.2; 02-OCT-2007 17:48:16; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29224
16; 6220.5; 02-OCT-2007 17:49:41; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29224
17; 6775.0; 02-OCT-2007 17:58:55; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29224
18; 6862.7; 02-OCT-2007 18:00:23; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29224
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071002_180543_000057572062_00113_29225_9006.N1
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2; 1560.1; 02-OCT-2007 18:12:36; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29225
3; 2168.8; 02-OCT-2007 18:22:45; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29225
4; 2386.5; 02-OCT-2007 18:26:23; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29225
5; 2946.9; 02-OCT-2007 18:35:43; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29225
6; 3428.3; 02-OCT-2007 18:43:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29225
7; 3907.5; 02-OCT-2007 18:51:44; Bright; 33.5; 36; 50Alp UMa ; 1.80; 6300;occ; 67; 0;29225
8; 3997.9; 02-OCT-2007 18:53:14; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;29225
9; 4591.5; 02-OCT-2007 19:03:08; Bright; 48.5; 166; 17Eps Leo ; 2.98; 6000;occ; 97; 0;29225
10; 5169.0; 02-OCT-2007 19:12:45; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29225
11; 5749.3; 02-OCT-2007 19:22:26; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;29225
12; 5828.5; 02-OCT-2007 19:23:45; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;29225
13; 5908.0; 02-OCT-2007 19:25:04; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;29225
14; 6008.4; 02-OCT-2007 19:26:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29225
15; 6136.9; 02-OCT-2007 19:28:53; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29225
16; 6221.2; 02-OCT-2007 19:30:17; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29225
17; 6775.3; 02-OCT-2007 19:39:31; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29225
18; 6863.0; 02-OCT-2007 19:40:59; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;29225
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071003_002414_000054992062_00116_29228_4461.N1
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2; -126.3; 03-OCT-2007 00:26:54; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29228
3; -25.3; 03-OCT-2007 00:28:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29228
4; 103.1; 03-OCT-2007 00:30:43; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29229
5; 187.5; 03-OCT-2007 00:32:07; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;29229
6; 740.4; 03-OCT-2007 00:41:20; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29229
7; 828.1; 03-OCT-2007 00:42:48; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29229
8; 1147.6; 03-OCT-2007 00:48:07; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29229
9; 1560.5; 03-OCT-2007 00:55:00; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29229
10; 2169.1; 03-OCT-2007 01:05:09; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29229
11; 2386.5; 03-OCT-2007 01:08:46; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29229
12; 2945.8; 03-OCT-2007 01:18:06; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29229
13; 3428.2; 03-OCT-2007 01:26:08; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29229
14; 3907.9; 03-OCT-2007 01:34:08; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29229
15; 3998.3; 03-OCT-2007 01:35:38; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;29229
16; 4592.2; 03-OCT-2007 01:45:32; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29229
17; 5170.6; 03-OCT-2007 01:55:10; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;29229
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3; -125.6; 03-OCT-2007 02:07:30; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;29229
4; -24.5; 03-OCT-2007 02:09:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29229
5; 103.9; 03-OCT-2007 02:11:20; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29230
6; 188.3; 03-OCT-2007 02:12:44; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29230
7; 740.9; 03-OCT-2007 02:21:57; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29230
8; 828.4; 03-OCT-2007 02:23:24; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29230
9; 1147.8; 03-OCT-2007 02:28:44; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29230
10; 2169.2; 03-OCT-2007 02:45:45; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;29230
11; 2386.5; 03-OCT-2007 02:49:22; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29230
12; 2945.6; 03-OCT-2007 02:58:41; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29230
13; 3428.2; 03-OCT-2007 03:06:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29230
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3;-1443.5; 03-OCT-2007 03:26:08; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29230
4; -864.9; 03-OCT-2007 03:35:47; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29230
5; -284.6; 03-OCT-2007 03:45:27; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29230
6; -124.9; 03-OCT-2007 03:48:07; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29230
7; -23.7; 03-OCT-2007 03:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29230
8; 104.8; 03-OCT-2007 03:51:56; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29231
9; 189.1; 03-OCT-2007 03:53:21; Dark ; 57.5; 2; Alp Car ;-0.74; 7000;occ; 115; 0;29231
10; 741.3; 03-OCT-2007 04:02:33; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29231
11; 829.0; 03-OCT-2007 04:04:01; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;29231
12; 1148.3; 03-OCT-2007 04:09:20; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29231
13; 2169.5; 03-OCT-2007 04:26:21; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;29231
14; 2386.7; 03-OCT-2007 04:29:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29231
15; 2945.3; 03-OCT-2007 04:39:17; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29231
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4; -864.5; 03-OCT-2007 05:16:23; Dark ; 46.5; 48; 30Alp Hya ; 1.98; 4100;occ; 93; 0;29231
5; -284.2; 03-OCT-2007 05:26:04; Dark ; 48.0; 65; Lam Vel ; 2.20; 4400;occ; 96; 0;29231
6; -124.4; 03-OCT-2007 05:28:43; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29231
7; -23.0; 03-OCT-2007 05:30:25; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29231
8; 105.5; 03-OCT-2007 05:32:33; Dark ; 47.5; 161; Tau Pup ; 2.93; 4500;occ; 95; 0;29232
9; 189.8; 03-OCT-2007 05:33:58; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;29232
10; 741.6; 03-OCT-2007 05:43:09; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29232
11; 829.4; 03-OCT-2007 05:44:37; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;29232
12; 1148.5; 03-OCT-2007 05:49:56; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29232
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14; 2169.5; 03-OCT-2007 06:06:57; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29232
15; 2386.8; 03-OCT-2007 06:10:34; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29232
16; 2945.2; 03-OCT-2007 06:19:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;29232
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3; 2170.1; 03-OCT-2007 21:12:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29241
4; 2386.9; 03-OCT-2007 21:15:58; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29241
5; 2943.1; 03-OCT-2007 21:25:14; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29241
6; 3019.1; 03-OCT-2007 21:26:30; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29241
7; 3428.1; 03-OCT-2007 21:33:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29241
8; 3909.1; 03-OCT-2007 21:41:20; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29241
9; 3999.7; 03-OCT-2007 21:42:51; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29241
10; 4594.6; 03-OCT-2007 21:52:46; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29241
11; 4779.6; 03-OCT-2007 21:55:51; Bright; 33.5; 22; 32Alp Leo ; 1.36; 15200;occ; 67; 0;29241
12; 5175.7; 03-OCT-2007 22:02:27; Dark ; 44.0; 48; 30Alp Hya ; 1.98; 4100;occ; 88; 0;29241
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5; 113.2; 03-OCT-2007 22:18:40; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29242
6; 197.4; 03-OCT-2007 22:20:04; Dark ; 57.0; 2; Alp Car ;-0.74; 7000;occ; 114; 0;29242
7; 745.3; 03-OCT-2007 22:29:12; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29242
8; 833.0; 03-OCT-2007 22:30:40; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;29242
9; 1151.2; 03-OCT-2007 22:35:58; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;29242
10; 1562.3; 03-OCT-2007 22:42:49; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29242
11; 2170.1; 03-OCT-2007 22:52:57; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29242
12; 2386.9; 03-OCT-2007 22:56:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29242
13; 2942.8; 03-OCT-2007 23:05:50; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;29242
14; 3018.7; 03-OCT-2007 23:07:06; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29242
15; 3428.0; 03-OCT-2007 23:13:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29242
16; 3909.1; 03-OCT-2007 23:21:56; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0;29242
17; 3999.8; 03-OCT-2007 23:23:27; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29242
18; 4594.7; 03-OCT-2007 23:33:22; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29242
19; 4779.7; 03-OCT-2007 23:36:27; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29242
20; 5176.1; 03-OCT-2007 23:43:03; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29242

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 4; 113.9; 03-OCT-2007 23:59:17; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29243
 5; 198.2; 04-OCT-2007 00:00:41; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29243
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 9; 1562.4; 04-OCT-2007 00:23:25; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29243
 10; 2170.2; 04-OCT-2007 00:33:33; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;29243
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 12; 2942.6; 04-OCT-2007 00:46:25; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29243
 13; 3018.3; 04-OCT-2007 00:47:41; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29243
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 16; 4000.0; 04-OCT-2007 01:04:03; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;29243
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 18; 4780.1; 04-OCT-2007 01:17:03; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29243
 19; 5176.6; 04-OCT-2007 01:23:39; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29243

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071003_063556_000037372062_00120_29232_9007.N1

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17; 6871.9; 04-OCT-2007 11:55:30; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;29249
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9; 19.4; 05-OCT-2007 06:08:29; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;29261
10; 127.8; 05-OCT-2007 06:10:18; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29261
11; 212.1; 05-OCT-2007 06:11:42; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;29261
12; 752.4; 05-OCT-2007 06:20:42; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29261
13; 840.0; 05-OCT-2007 06:22:10; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29261
14; 1156.1; 05-OCT-2007 06:27:26; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29261
15; 1565.1; 05-OCT-2007 06:34:15; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;29261
16; 2171.9; 05-OCT-2007 06:44:22; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;29261
17; 2388.0; 05-OCT-2007 06:47:58; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;29261
18; 2926.6; 05-OCT-2007 06:56:56; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;29261
19; 3012.0; 05-OCT-2007 06:58:22; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29261
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2; -184.6; 05-OCT-2007 01:03:17; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;29257
3; -77.3; 05-OCT-2007 01:05:05; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29257
4; -2.9; 05-OCT-2007 01:06:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29257
5; 125.4; 05-OCT-2007 01:08:27; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;29258
6; 209.8; 05-OCT-2007 01:09:52; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;29258
7; 751.2; 05-OCT-2007 01:18:53; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29258
8; 838.8; 05-OCT-2007 01:20:21; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;29258
9; 1155.2; 05-OCT-2007 01:25:37; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29258
10; 1564.6; 05-OCT-2007 01:32:26; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29258
11; 2171.5; 05-OCT-2007 01:42:33; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29258
12; 2387.7; 05-OCT-2007 01:46:10; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29258
13; 2927.5; 05-OCT-2007 01:55:09; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29258
14; 3013.1; 05-OCT-2007 01:56:35; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29258
15; 3427.8; 05-OCT-2007 02:03:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;29258
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3; -1437.9; 05-OCT-2007 02:23:00; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29258
4; -1252.2; 05-OCT-2007 02:26:06; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29258
5; -852.7; 05-OCT-2007 02:32:45; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29258
6; -272.8; 05-OCT-2007 02:42:25; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29258
7; -183.8; 05-OCT-2007 02:43:54; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;29258
8; -76.8; 05-OCT-2007 02:45:41; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29258
9; -2.1; 05-OCT-2007 02:46:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29258
10; 126.4; 05-OCT-2007 02:49:04; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29259
11; 210.7; 05-OCT-2007 02:50:28; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;29259
12; 751.6; 05-OCT-2007 02:59:29; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29259
13; 839.3; 05-OCT-2007 03:00:57; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;29259
14; 1155.5; 05-OCT-2007 03:06:13; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;29259
15; 1564.8; 05-OCT-2007 03:13:03; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29259
16; 2171.8; 05-OCT-2007 03:23:10; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29259
17; 2387.8; 05-OCT-2007 03:26:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29259
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19; 3012.7; 05-OCT-2007 03:37:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29259
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3; -1437.7; 05-OCT-2007 04:03:36; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29259
4; -1252.0; 05-OCT-2007 04:06:42; Bright; 33.5; 22; 32Alp Leo ; 1.36; 15200;occ; 67; 0;29259
5; -852.2; 05-OCT-2007 04:13:21; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29259
6; -272.3; 05-OCT-2007 04:23:01; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29259
7; -183.1; 05-OCT-2007 04:24:31; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29259
8; -76.3; 05-OCT-2007 04:26:17; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29259
9; -1.3; 05-OCT-2007 04:27:32; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29259
10; 127.1; 05-OCT-2007 04:29:41; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;29260
11; 211.3; 05-OCT-2007 04:31:05; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;29260
12; 751.9; 05-OCT-2007 04:40:06; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29260
13; 839.6; 05-OCT-2007 04:41:33; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29260

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14; 1155.8; 05-OCT-2007 04:46:50; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29260
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16; 2171.9; 05-OCT-2007 05:03:46; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29260
17; 2387.9; 05-OCT-2007 05:07:22; Bright; 34.5; 93; 53Bet Peg ; 2.52; 3100;occ; 69; 0;29260
18; 2927.1; 05-OCT-2007 05:16:21; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29260
19; 3012.4; 05-OCT-2007 05:17:46; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29260
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 4; 2388.4; 05-OCT-2007 20:12:46; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29269
 5; 2924.0; 05-OCT-2007 20:21:41; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;29269
 6; 3009.2; 05-OCT-2007 20:23:06; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29269
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10; 4600.2; 05-OCT-2007 20:49:37; Bright; 45.5; 166; 17Eps Leo ; 2.98; 6000;occ; 91; 0;29269
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15; 6165.3; 05-OCT-2007 09:31:31; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29262
16; 6249.6; 05-OCT-2007 09:32:55; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29262
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 4; 3011.3; 05-OCT-2007 10:19:33; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29263
 5; 3427.8; 05-OCT-2007 10:26:29; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29263
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10; 5185.5; 05-OCT-2007 10:55:47; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;29263
11; 5765.3; 05-OCT-2007 11:05:27; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;29263

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12; 5855.6; 05-OCT-2007 11:06:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29263
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14; 6056.4; 05-OCT-2007 11:10:18; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29263
15; 6166.1; 05-OCT-2007 11:12:08; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;29263
16; 6250.4; 05-OCT-2007 11:13:32; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;29263
17; 6789.2; 05-OCT-2007 11:22:31; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;29263
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12; 5765.7; 05-OCT-2007 12:46:03; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29264
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14; 5961.5; 05-OCT-2007 12:49:19; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29264
15; 6056.9; 05-OCT-2007 12:50:54; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;29264
16; 6166.9; 05-OCT-2007 12:52:44; Dark ; 51.5; 161; Tau Pup ; 2.93; 4500;occ; 103; 0;29264
17; 6251.1; 05-OCT-2007 12:54:09; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;29264
18; 6789.6; 05-OCT-2007 13:03:07; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29264
19; 6877.2; 05-OCT-2007 13:04:35; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29264
20; 7193.0; 05-OCT-2007 13:09:50; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;29264
21; 7601.4; 05-OCT-2007 13:16:39; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29264
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 2; 2172.4; 05-OCT-2007 13:26:46; Bright; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;29265
 3; 2388.2; 05-OCT-2007 13:30:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29265
 4; 2925.3; 05-OCT-2007 13:39:19; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;29265
 5; 3010.7; 05-OCT-2007 13:40:44; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29265
 6; 3427.9; 05-OCT-2007 13:47:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29265
 7; 3911.4; 05-OCT-2007 13:55:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29265
 8; 4002.3; 05-OCT-2007 13:57:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;29265
 9; 4599.5; 05-OCT-2007 14:07:13; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29265
10; 4785.5; 05-OCT-2007 14:10:19; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;29265
11; 5186.5; 05-OCT-2007 14:17:00; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;29265
12; 5766.2; 05-OCT-2007 14:26:40; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29265
13; 5856.5; 05-OCT-2007 14:28:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29265
14; 5962.0; 05-OCT-2007 14:29:55; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;29265
15; 6057.4; 05-OCT-2007 14:31:31; Dark ; 49.0; 41; Eps Car ; 1.86; 4100;occ; 98; 0;29265
16; 6167.7; 05-OCT-2007 14:33:21; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29265
17; 6252.0; 05-OCT-2007 14:34:45; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29265
18; 6790.1; 05-OCT-2007 14:43:43; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29265
19; 6877.7; 05-OCT-2007 14:45:11; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29265
20; 7193.3; 05-OCT-2007 14:50:27; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;29265
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 2; 2172.4; 05-OCT-2007 15:07:22; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29266
 3; 2388.4; 05-OCT-2007 15:10:58; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29266
 4; 2925.0; 05-OCT-2007 15:19:54; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29266
 5; 3010.4; 05-OCT-2007 15:21:20; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29266
 6; 3427.9; 05-OCT-2007 15:28:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29266
 7; 3911.5; 05-OCT-2007 15:36:21; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29266
 8; 4002.6; 05-OCT-2007 15:37:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29266
 9; 4599.7; 05-OCT-2007 15:47:49; Bright; 48.0; 166; 17Eps Leo ; 2.98; 6000;occ; 96; 0;29266
10; 4785.9; 05-OCT-2007 15:50:55; Bright; 41.0; 22; 32Alp Leo ; 1.36; 15200;occ; 82; 0;29266
11; 5187.0; 05-OCT-2007 15:57:36; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;29266
12; 5766.8; 05-OCT-2007 16:07:16; Dark ; 39.0; 65; Lam Vel ; 2.20; 4400;occ; 78; 0;29266
13; 5857.0; 05-OCT-2007 16:08:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29266
14; 5962.4; 05-OCT-2007 16:10:32; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29266
15; 6057.9; 05-OCT-2007 16:12:07; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;29266

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16; 6168.6; 05-OCT-2007 16:13:58; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29266
17; 6252.9; 05-OCT-2007 16:15:22; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;29266
18; 6790.6; 05-OCT-2007 16:24:20; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29266
19; 6878.1; 05-OCT-2007 16:25:47; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29266
20; 7193.5; 05-OCT-2007 16:31:03; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;29266
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 2; 2172.6; 05-OCT-2007 16:47:58; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;29267
 3; 2388.4; 05-OCT-2007 16:51:34; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29267
 4; 2924.7; 05-OCT-2007 17:00:30; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29267
 5; 3010.0; 05-OCT-2007 17:01:55; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29267
 6; 3427.8; 05-OCT-2007 17:08:53; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;29267
 7; 3911.5; 05-OCT-2007 17:16:57; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;29267
 8; 4002.6; 05-OCT-2007 17:18:28; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29267
 9; 4600.0; 05-OCT-2007 17:28:25; Bright; 55.0; 166; 17Eps Leo ; 2.98; 6000;occ; 110; 0;29267
10; 4786.1; 05-OCT-2007 17:31:31; Bright; 38.5; 22; 32Alp Leo ; 1.36; 15200;occ; 77; 0;29267
11; 5187.4; 05-OCT-2007 17:38:13; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29267
12; 5767.2; 05-OCT-2007 17:47:52; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;29267
13; 5857.5; 05-OCT-2007 17:49:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29267
14; 5962.8; 05-OCT-2007 17:51:08; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29267
15; 6058.2; 05-OCT-2007 17:52:43; Dark ; 37.5; 41; Eps Car ; 1.86; 4100;occ; 75; 0;29267
16; 6169.4; 05-OCT-2007 17:54:35; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29267
17; 6253.6; 05-OCT-2007 17:55:59; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29267
18; 6790.9; 05-OCT-2007 18:04:56; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29267
19; 6878.4; 05-OCT-2007 18:06:24; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;29267
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 2; 1566.0; 05-OCT-2007 18:18:27; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29268
 3; 2172.7; 05-OCT-2007 18:28:34; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29268
 4; 2388.4; 05-OCT-2007 18:32:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29268
 5; 2924.3; 05-OCT-2007 18:41:06; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29268
 6; 3009.5; 05-OCT-2007 18:42:31; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29268
 7; 3427.7; 05-OCT-2007 18:49:29; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29268
 8; 3911.5; 05-OCT-2007 18:57:33; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29268
 9; 4002.6; 05-OCT-2007 18:59:04; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29268
10; 4600.0; 05-OCT-2007 19:09:01; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29268
11; 4786.2; 05-OCT-2007 19:12:07; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29268
12; 5187.8; 05-OCT-2007 19:18:49; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;29268
13; 5767.5; 05-OCT-2007 19:28:29; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;29268
14; 5857.9; 05-OCT-2007 19:29:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29268
15; 5963.1; 05-OCT-2007 19:31:44; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29268
16; 6058.5; 05-OCT-2007 19:33:20; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;29268
17; 6170.1; 05-OCT-2007 19:35:11; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29268
18; 6254.3; 05-OCT-2007 19:36:36; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;29268
19; 6791.1; 05-OCT-2007 19:45:32; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29268
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 2; -2032.4; 06-OCT-2007 06:43:16; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;29275
 3; -1836.7; 06-OCT-2007 06:46:32; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;29275
 4; -1434.3; 06-OCT-2007 06:53:14; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29275
 5; -1247.9; 06-OCT-2007 06:56:21; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29275
 6; -844.7; 06-OCT-2007 07:03:04; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29275
 7; -265.2; 06-OCT-2007 07:12:44; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29275
 8; -174.9; 06-OCT-2007 07:14:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29275
 9; -69.8; 06-OCT-2007 07:15:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29275
10; 25.5; 06-OCT-2007 07:17:34; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29276
11; 139.7; 06-OCT-2007 07:19:28; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;29276
12; 223.9; 06-OCT-2007 07:20:53; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;29276
13; 757.8; 06-OCT-2007 07:29:47; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29276
14; 845.4; 06-OCT-2007 07:31:14; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29276
15; 1160.0; 06-OCT-2007 07:36:29; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29276
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 2; 2173.6; 06-OCT-2007 07:53:22; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29276
 3; 2389.0; 06-OCT-2007 07:56:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29276
 4; 2921.8; 06-OCT-2007 08:05:50; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29276

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6; 3427.7; 06-OCT-2007 08:14:16; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29276
7; 3912.3; 06-OCT-2007 08:22:21; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29276
8; 4003.5; 06-OCT-2007 08:23:52; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29276
9; 4199.4; 06-OCT-2007 08:27:08; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;29276
10; 4601.8; 06-OCT-2007 08:33:51; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29276
11; 4788.4; 06-OCT-2007 08:36:57; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29276
12; 5191.7; 06-OCT-2007 08:43:40; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29276
13; 5771.2; 06-OCT-2007 08:53:20; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29276
14; 5861.5; 06-OCT-2007 08:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29276
15; 5966.6; 06-OCT-2007 08:56:35; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29276
16; 6061.9; 06-OCT-2007 08:58:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;29276
17; 6176.4; 06-OCT-2007 09:00:05; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29276
18; 6260.6; 06-OCT-2007 09:01:29; Dark ; 42.0; 2; Alp Car ;-0.74; 7000;occ; 84; 0;29276
19; 6794.1; 06-OCT-2007 09:10:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29276
20; 6881.6; 06-OCT-2007 09:11:50; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29276
21; 7196.1; 06-OCT-2007 09:17:05; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29276
22; 7603.2; 06-OCT-2007 09:23:52; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29276

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071007_012944_000043022062_00174_29286_4488.N1

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2; -260.2; 07-OCT-2007 01:39:24; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29286
3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071007_024857_000055852062_00175_29287_4489.N1

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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288
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19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288
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21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
 14; 1163.2; 07-OCT-2007 05:24:19; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;29289
 15; 1569.0; 07-OCT-2007 05:31:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;29289
 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289
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 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071007_233202_000052222062_00188_29300_4491.N1

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 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071007_061009_000037382062_00177_29289_9042.N1

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 9; 22.6; 07-OCT-2007 06:45:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29290
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 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071007_090220_000054772062_00179_29291_9044.N1

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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
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11; 5778.0; 07-OCT-2007 10:02:26; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29291
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16; 6272.2; 07-OCT-2007 10:10:40; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;29291
17; 6799.4; 07-OCT-2007 10:19:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29291
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11; 4792.3; 07-OCT-2007 11:26:36; Bright; 36.5; 22; 32Alp Leo ; 1.36; 15200;occ; 73; 0;29292
12; 5199.4; 07-OCT-2007 11:33:23; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;29292
13; 5778.5; 07-OCT-2007 11:43:02; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29292
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16; 6060.9; 07-OCT-2007 11:47:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29292
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19; 6799.6; 07-OCT-2007 12:00:03; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29292
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5; 3001.5; 07-OCT-2007 12:37:21; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29293
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10; 4605.5; 07-OCT-2007 13:04:05; Bright; 38.0; 166; 17Eps Leo ; 2.98; 6000;occ; 76; 0;29293
11; 4792.7; 07-OCT-2007 13:07:12; Bright; 54.0; 22; 32Alp Leo ; 1.36; 15200;occ; 108; 0;29293
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13; 5778.9; 07-OCT-2007 13:23:38; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29293
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19; 6799.9; 07-OCT-2007 13:40:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29293
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4; 2916.3; 07-OCT-2007 14:16:32; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29294

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17; 6274.7; 07-OCT-2007 15:12:30; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29294
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19; 6887.9; 07-OCT-2007 15:22:43; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29294
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12; 5785.1; 08-OCT-2007 11:11:32; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;29306
13; 5889.0; 08-OCT-2007 11:13:16; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29306
14; 5979.2; 08-OCT-2007 11:14:46; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29306
15; 6072.3; 08-OCT-2007 11:16:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29306
16; 6200.1; 08-OCT-2007 11:18:27; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29306
17; 6284.0; 08-OCT-2007 11:19:51; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29306
18; 6804.4; 08-OCT-2007 11:28:31; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29306
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2; 2170.4; 08-OCT-2007 11:51:53; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;29307
3; 2391.9; 08-OCT-2007 11:55:34; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29307
4; 2912.4; 08-OCT-2007 12:04:15; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29307

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6; 3427.2; 08-OCT-2007 12:12:50; Bright; 41.5; 49; 1Alp UMi ; 1.99; 6300;occ; 83; 0;29307
7; 3914.5; 08-OCT-2007 12:20:57; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29307
8; 4006.4; 08-OCT-2007 12:22:29; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;29307
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15; 5979.7; 08-OCT-2007 12:55:22; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;29307
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2; -176.7; 06-OCT-2007 00:31:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29271
3; -71.6; 06-OCT-2007 00:33:33; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;29271
4; 23.7; 06-OCT-2007 00:35:09; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;29272
5; 136.4; 06-OCT-2007 00:37:01; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29272
6; 220.6; 06-OCT-2007 00:38:25; Dark ; 61.0; 2; Alp Car ;-0.74; 7000;occ; 122; 0;29272
7; 756.1; 06-OCT-2007 00:47:21; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29272
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12; 2388.5; 06-OCT-2007 01:14:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29272
13; 2923.0; 06-OCT-2007 01:23:28; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29272
14; 3008.2; 06-OCT-2007 01:24:53; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;29272
15; 3427.6; 06-OCT-2007 01:31:52; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29272
16; 3911.8; 06-OCT-2007 01:39:57; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29272
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5; 24.2; 06-OCT-2007 02:15:45; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;29273
6; 137.2; 06-OCT-2007 02:17:38; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29273
7; 221.5; 06-OCT-2007 02:19:02; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29273
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10; 1159.0; 06-OCT-2007 02:34:40; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;29273
11; 1566.7; 06-OCT-2007 02:41:27; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29273
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14; 2922.6; 06-OCT-2007 03:04:03; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29273
15; 3007.9; 06-OCT-2007 03:05:29; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;29273
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4; -1434.9; 06-OCT-2007 03:32:02; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29273
5; -1248.6; 06-OCT-2007 03:35:08; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29273
6; -845.8; 06-OCT-2007 03:41:51; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;29273
7; -266.1; 06-OCT-2007 03:51:31; Dark ; 51.5; 65; Lam Vel ; 2.20; 4400;occ; 103; 0;29273
8; -175.8; 06-OCT-2007 03:53:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29273
9; -70.7; 06-OCT-2007 03:54:46; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;29273
10; 24.7; 06-OCT-2007 03:56:21; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;29274

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11; 138.1; 06-OCT-2007 03:58:15; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;29274
12; 222.3; 06-OCT-2007 03:59:39; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29274
13; 757.2; 06-OCT-2007 04:08:34; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29274
14; 844.7; 06-OCT-2007 04:10:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29274
15; 1159.5; 06-OCT-2007 04:15:16; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29274
16; 1566.9; 06-OCT-2007 04:22:04; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;29274
17; 2173.3; 06-OCT-2007 04:32:10; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;29274
18; 2388.8; 06-OCT-2007 04:35:46; Bright; 34.5; 93; 53Bet Peg ; 2.52; 3100;occ; 69; 0;29274
19; 2922.5; 06-OCT-2007 04:44:39; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29274
20; 3007.7; 06-OCT-2007 04:46:04; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29274
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12; 223.0; 06-OCT-2007 05:40:16; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29275
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3; 2174.5; 06-OCT-2007 21:18:11; Bright; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;29284
4; 2389.6; 06-OCT-2007 21:21:46; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29284
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18; 4200.7; 06-OCT-2007 23:32:33; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;29285
19; 4603.6; 06-OCT-2007 23:39:16; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29285
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11; 2389.8; 07-OCT-2007 00:42:58; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29286
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14; 2910.5; 08-OCT-2007 22:07:49; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29313
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16; 3427.1; 08-OCT-2007 22:16:25; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29313
17; 3914.9; 08-OCT-2007 22:24:33; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;29313
18; 4006.7; 08-OCT-2007 22:26:05; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;29313
19; 4204.5; 08-OCT-2007 22:29:23; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29313
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13; 2910.3; 08-OCT-2007 23:48:24; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;29314
14; 2994.8; 08-OCT-2007 23:49:49; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29314
15; 3427.2; 08-OCT-2007 23:57:01; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;29314
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11; 4796.7; 08-OCT-2007 14:16:15; Bright; 36.0; 22; 32Alp Leo ; 1.36; 15200;occ; 72; 0;29308
12; 5207.5; 08-OCT-2007 14:23:06; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;29308
13; 5786.2; 08-OCT-2007 14:32:45; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29308
14; 5890.7; 08-OCT-2007 14:34:29; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;29308
15; 5980.2; 08-OCT-2007 14:35:59; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;29308
16; 6074.0; 08-OCT-2007 14:37:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29308
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20; 6892.6; 08-OCT-2007 14:51:11; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;29308
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19; 6805.7; 08-OCT-2007 16:30:20; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29309
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10; 4204.2; 08-OCT-2007 17:27:34; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;29310

```

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071008_181735_000057752062_00199_29311_9058.N1

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```

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16; 6088.9; 09-OCT-2007 20:48:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29326
17; 6216.4; 09-OCT-2007 20:50:42; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29326
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19; 6811.2; 09-OCT-2007 21:00:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29326
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 4; 182.2; 10-OCT-2007 00:11:55; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29329
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 6; 775.9; 10-OCT-2007 00:21:49; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29329
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10; 2168.5; 10-OCT-2007 00:45:01; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;29329
11; 2394.4; 10-OCT-2007 00:48:47; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29329
12; 2906.3; 10-OCT-2007 00:57:19; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;29329
13; 2990.4; 10-OCT-2007 00:58:43; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29329
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15; 3916.0; 10-OCT-2007 01:14:09; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29329
16; 4008.1; 10-OCT-2007 01:15:41; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29329

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17; 4206.4; 10-OCT-2007 01:18:59; Bright; 42.0; 174; 52Psi UMA ; 3.00; 4400;occ; 84; 0;29329
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11; 2168.5; 10-OCT-2007 02:25:37; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;29330
12; 2394.6; 10-OCT-2007 02:29:23; Bright; 32.0; 93; 53Bet Peg ; 2.52; 3100;occ; 64; 0;29330
13; 2906.1; 10-OCT-2007 02:37:55; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29330
14; 2990.2; 10-OCT-2007 02:39:19; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29330
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11; 267.3; 10-OCT-2007 03:34:32; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;29331
12; 776.7; 10-OCT-2007 03:43:01; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29331
13; 863.9; 10-OCT-2007 03:44:29; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;29331
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15; 1574.8; 10-OCT-2007 03:56:20; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;29331
16; 2168.4; 10-OCT-2007 04:06:13; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29331
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18; 2905.9; 10-OCT-2007 04:18:31; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29331
19; 2989.9; 10-OCT-2007 04:19:55; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29331
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12; 777.0; 10-OCT-2007 05:23:38; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29332
13; 864.3; 10-OCT-2007 05:25:05; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29332
14; 1173.4; 10-OCT-2007 05:30:14; Dark ; 36.5; 84; Alp Phe ; 2.40; 4500;occ; 73; 0;29332
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 3; 2167.8; 10-OCT-2007 20:52:12; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29341
 4; 2408.8; 10-OCT-2007 20:56:13; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29341
 5; 2903.3; 10-OCT-2007 21:04:28; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29341

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6; 2986.9; 10-OCT-2007 21:05:51; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29341
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9; 4008.9; 10-OCT-2007 21:22:53; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29341
10; 4208.1; 10-OCT-2007 21:26:12; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;29341
11; 4615.9; 10-OCT-2007 21:33:00; Bright; 57.0; 166; 17Eps Leo ; 2.98; 6000;occ; 114; 0;29341
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4; 65.6; 10-OCT-2007 21:57:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29342
5; 192.9; 10-OCT-2007 21:59:53; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29342
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12; 2408.7; 10-OCT-2007 22:36:49; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;29342
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14; 2986.6; 10-OCT-2007 22:46:27; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29342
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16; 3916.8; 10-OCT-2007 23:01:57; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29342
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4; -1422.0; 10-OCT-2007 06:27:35; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29332
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6; -815.6; 10-OCT-2007 06:37:41; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29332
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9; 58.0; 10-OCT-2007 06:52:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29333
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12; 777.3; 10-OCT-2007 07:04:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29333
13; 864.7; 10-OCT-2007 07:05:41; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29333
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3; 2905.4; 10-OCT-2007 07:39:42; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29333
4; 2989.4; 10-OCT-2007 07:41:06; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29333
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6; 3916.3; 10-OCT-2007 07:56:33; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29333
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8; 4207.1; 10-OCT-2007 09:42:00; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29334
9; 4614.3; 10-OCT-2007 09:48:47; Bright; 39.0; 166; 17Eps Leo ; 2.98; 6000;occ; 78; 0;29334
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12; 5799.2; 10-OCT-2007 10:08:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29334
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3; 2904.8; 10-OCT-2007 11:00:53; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;29335
4; 2988.8; 10-OCT-2007 11:02:17; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29335
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10; 4804.2; 10-OCT-2007 11:32:33; Bright; 55.0; 22; 32Alp Leo ; 1.36; 15200;occ; 110; 0;29335
11; 5222.0; 10-OCT-2007 11:39:31; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;29335
12; 5799.7; 10-OCT-2007 11:49:08; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;29335
13; 5977.1; 10-OCT-2007 11:52:06; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29335
14; 6096.4; 10-OCT-2007 11:54:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29335
15; 6223.9; 10-OCT-2007 11:56:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29335
16; 6307.1; 10-OCT-2007 11:57:36; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;29335
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18; 6901.5; 10-OCT-2007 12:07:30; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;29335
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4; 2904.6; 10-OCT-2007 12:41:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29336
5; 2988.5; 10-OCT-2007 12:42:53; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;29336
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19; 6902.2; 10-OCT-2007 15:28:43; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29337
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9; 4620.8; 12-OCT-2007 10:26:15; Bright; 39.0; 166; 17Eps Leo ; 2.98; 6000;occ; 78; 0;29363
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4; 243.2; 15-OCT-2007 02:36:39; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29402
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13; 5268.3; 15-OCT-2007 17:25:11; Dark ; 51.5; 48; 30Alp Hya ; 1.98; 4100;occ; 103; 0;29410
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13; 2968.5; 16-OCT-2007 01:09:51; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;29415
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 5; 267.0; 17-OCT-2007 01:33:49; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29430
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 11; 347.9; 17-OCT-2007 03:15:46; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29431
 12; 1051.2; 17-OCT-2007 03:27:29; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;29431
 13; 1589.1; 17-OCT-2007 03:36:27; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29431

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14; 5858.8; 17-OCT-2007 16:31:48; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;29438
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6; 2963.5; 17-OCT-2007 17:24:09; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29439
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12; 2962.3; 18-OCT-2007 03:27:43; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29445
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8; 34.2; 19-OCT-2007 07:09:06; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;29462
9; 171.2; 19-OCT-2007 07:11:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29462
10; 373.1; 19-OCT-2007 07:14:45; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;29462
11; 1066.0; 19-OCT-2007 07:26:17; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;29462
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6; 2959.2; 19-OCT-2007 07:57:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29462
7; 3425.6; 19-OCT-2007 08:05:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29462
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6; 3425.6; 19-OCT-2007 09:46:13; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29463
7; 3920.3; 19-OCT-2007 09:54:28; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;29463
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13; 5874.6; 19-OCT-2007 10:27:02; Dark ; 46.0; 65; Lam Vel ; 2.20; 4400;occ; 92; 0;29463
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16; 6410.8; 19-OCT-2007 10:35:58; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;29463
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4; 2541.5; 19-OCT-2007 11:12:05; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;29464
5; 2879.0; 19-OCT-2007 11:17:42; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29464
6; 2958.8; 19-OCT-2007 11:19:02; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29464
7; 3425.4; 19-OCT-2007 11:26:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29464

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 13; 5875.3; 19-OCT-2007 12:07:39; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;29464
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 4; 2541.3; 19-OCT-2007 12:52:40; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29465
 5; 2878.9; 19-OCT-2007 12:58:18; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29465
 6; 2958.6; 19-OCT-2007 12:59:38; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;29465
 7; 3425.6; 19-OCT-2007 13:07:25; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;29465
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 13; 5876.0; 19-OCT-2007 13:48:15; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29465
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 15; 6210.7; 19-OCT-2007 13:53:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29465
 16; 6412.4; 19-OCT-2007 13:57:11; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;29465
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 5; 2878.8; 19-OCT-2007 14:38:54; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29466
 6; 2958.4; 19-OCT-2007 14:40:13; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29466
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 9; 4014.2; 19-OCT-2007 14:57:49; Bright; 50.0; 82; 48Bet UMA ; 2.37; 10600;occ; 100; 0;29466
 10; 4220.8; 19-OCT-2007 15:01:16; Bright; 37.5; 174; 52Psi UMA ; 3.00; 4400;occ; 75; 0;29466
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 9; 4014.3; 19-OCT-2007 16:38:25; Bright; 48.0; 82; 48Bet UMA ; 2.37; 10600;occ; 96; 0;29467
 10; 4221.1; 19-OCT-2007 16:41:52; Bright; 53.0; 174; 52Psi UMA ; 3.00; 4400;occ; 106; 0;29467
 11; 4689.0; 19-OCT-2007 16:49:40; Bright; 40.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 80; 0;29467
 12; 4848.2; 19-OCT-2007 16:52:19; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;29467
 13; 5877.4; 19-OCT-2007 17:09:28; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;29467
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16; 6213.6; 19-OCT-2007 18:55:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29468
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8; 3425.4; 19-OCT-2007 19:49:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29469
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071020_201524_000039122062_00372_29484_4577.N1

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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071022_173600_000057872062_00399_29511_9179.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20071022_191217_000061712062_00400_29512_9180.N1

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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
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 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071022_235636_000048952062_00402_29514_4593.N1

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12; 2406.2; 23-OCT-2007 00:40:22; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29515
 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
 14; 2872.9; 23-OCT-2007 00:48:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29515
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 21; 4642.0; 23-OCT-2007 01:17:37; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;29515

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071023_013712_000036762062_00403_29515_4594.N1

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 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
 7; 830.4; 23-OCT-2007 01:54:42; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29516
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 4; -1811.5; 23-OCT-2007 02:51:16; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29516
 5; -1393.8; 23-OCT-2007 02:58:13; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;29516
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071023_042203_000060652062_00405_29517_4596.N1

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 12; 830.9; 23-OCT-2007 05:15:54; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29518
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 14; 1091.1; 23-OCT-2007 05:20:14; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29518
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 16; 2172.5; 23-OCT-2007 05:38:16; Bright; 36.0; 140; 88Gam Peg ; 2.83; 26000;occ; 72; 0;29518
 17; 2406.6; 23-OCT-2007 05:42:10; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29518


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21; 3425.1; 23-OCT-2007 05:59:08; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29518
22; 3628.1; 23-OCT-2007 06:02:31; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29518
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13; 4014.5; 23-OCT-2007 21:14:21; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29527
14; 4225.1; 23-OCT-2007 21:17:52; Bright; 54.0; 174; 52Psi UMa ; 3.00; 4400;occ; 108; 0;29527
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 4; 58.1; 23-OCT-2007 21:49:01; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29528
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9; 3918.3; 25-OCT-2007 18:28:55; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29554
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071026_000425_000047792062_00445_29557_4613.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071026_042817_000060452062_00448_29560_4616.N1


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2; 2411.3; 26-OCT-2007 09:09:11; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;29563
3; 2522.1; 26-OCT-2007 09:11:02; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29563
4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
8; 3918.0; 26-OCT-2007 09:34:18; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29563
9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 12; 5831.7; 26-OCT-2007 10:06:12; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29563
 13; 5945.7; 26-OCT-2007 10:08:06; Dark ; 40.0; 65; Lam Vel ; 2.20; 4400;occ; 80; 0;29563
 14; 6026.1; 26-OCT-2007 10:09:26; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29563
 15; 6115.8; 26-OCT-2007 10:10:56; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29563
 16; 6217.7; 26-OCT-2007 10:12:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29563
 17; 6877.9; 26-OCT-2007 10:23:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29563
 18; 6962.4; 26-OCT-2007 10:25:02; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;29563
 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
 20; 7645.5; 26-OCT-2007 10:36:25; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29563

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 3; 2411.4; 26-OCT-2007 10:49:47; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;29564
 4; 2521.9; 26-OCT-2007 10:51:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29564
 5; 2869.2; 26-OCT-2007 10:57:25; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29564
 6; 2944.7; 26-OCT-2007 10:58:40; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29564
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 9; 3917.9; 26-OCT-2007 11:14:54; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29564
 10; 4013.4; 26-OCT-2007 11:16:29; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;29564
 11; 4227.0; 26-OCT-2007 11:20:03; Bright; 42.0; 174; 52Psi UMa ; 3.00; 4400;occ; 84; 0;29564
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 13; 5832.0; 26-OCT-2007 11:46:48; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29564
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 15; 6026.8; 26-OCT-2007 11:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29564
 16; 6116.4; 26-OCT-2007 11:51:32; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29564
 17; 6218.0; 26-OCT-2007 11:53:14; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;29564
 18; 6878.2; 26-OCT-2007 12:04:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29564
 19; 6962.7; 26-OCT-2007 12:05:38; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;29564
 20; 7146.1; 26-OCT-2007 12:08:42; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29564
 21; 7645.7; 26-OCT-2007 12:17:01; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29564

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 4; 2521.8; 26-OCT-2007 12:32:13; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29565
 5; 2869.2; 26-OCT-2007 12:38:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29565
 6; 2944.6; 26-OCT-2007 12:39:16; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29565
 7; 3424.6; 26-OCT-2007 12:47:16; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29565
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 9; 3917.9; 26-OCT-2007 12:55:30; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;29565
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 11; 4227.2; 26-OCT-2007 13:00:39; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29565
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 13; 5832.4; 26-OCT-2007 13:27:24; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;29565
 14; 5947.3; 26-OCT-2007 13:29:19; Dark ; 34.0; 65; Lam Vel ; 2.20; 4400;occ; 68; 0;29565
 15; 6027.5; 26-OCT-2007 13:30:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29565
 16; 6117.1; 26-OCT-2007 13:32:09; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;29565
 17; 6218.3; 26-OCT-2007 13:33:50; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29565
 18; 6878.3; 26-OCT-2007 13:44:50; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29565
 19; 6962.8; 26-OCT-2007 13:46:14; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29565
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 2; 2178.8; 26-OCT-2007 14:07:06; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;29566
 3; 2411.7; 26-OCT-2007 14:10:59; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;29566
 4; 2521.7; 26-OCT-2007 14:12:49; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;29566
 5; 2869.2; 26-OCT-2007 14:18:37; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29566
 6; 2944.6; 26-OCT-2007 14:19:52; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29566
 7; 3424.6; 26-OCT-2007 14:27:52; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29566
 8; 3638.0; 26-OCT-2007 14:31:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29566
 9; 3917.9; 26-OCT-2007 14:36:05; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29566
 10; 4013.2; 26-OCT-2007 14:37:41; Bright; 54.0; 82; 48Bet UMa ; 2.37; 10600;occ; 108; 0;29566
 11; 4227.3; 26-OCT-2007 14:41:15; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29566
 12; 4653.2; 26-OCT-2007 14:48:21; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;29566
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17; 6218.6; 26-OCT-2007 15:14:26; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29566
18; 6878.7; 26-OCT-2007 15:25:26; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29566
19; 6963.0; 26-OCT-2007 15:26:50; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;29566
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 3; 2411.9; 26-OCT-2007 15:51:35; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29567
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 5; 2869.2; 26-OCT-2007 15:59:13; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29567
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11; 4227.5; 26-OCT-2007 16:21:51; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29567
12; 4653.4; 26-OCT-2007 16:28:57; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;29567
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15; 6029.0; 26-OCT-2007 16:51:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29567
16; 6118.4; 26-OCT-2007 16:53:22; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29567
17; 6219.0; 26-OCT-2007 16:55:02; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;29567
18; 6879.0; 26-OCT-2007 17:06:02; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29567
19; 6963.2; 26-OCT-2007 17:07:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29567
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 3; 2411.8; 26-OCT-2007 17:32:11; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;29568
 4; 2521.5; 26-OCT-2007 17:34:01; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29568
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 6; 2944.3; 26-OCT-2007 17:41:04; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29568
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 9; 3917.9; 26-OCT-2007 17:57:17; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;29568
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11; 4227.5; 26-OCT-2007 18:02:27; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;29568
12; 4653.4; 26-OCT-2007 18:09:33; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29568
13; 5833.5; 26-OCT-2007 18:29:13; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29568
14; 6029.7; 26-OCT-2007 18:32:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29568
15; 6119.0; 26-OCT-2007 18:33:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29568
16; 6219.3; 26-OCT-2007 18:35:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29568
17; 6879.2; 26-OCT-2007 18:46:39; Dark ; 36.0; 143; Alp Hyi ; 2.86; 7200;occ; 72; 0;29568
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 2; 927.5; 26-OCT-2007 18:48:03; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;29569
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 4; 1610.5; 26-OCT-2007 18:59:26; Dark ; 39.0; 52; 16Bet Cet ; 2.04; 4500;occ; 78; 0;29569
 5; 2179.3; 26-OCT-2007 19:08:55; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29569
 6; 2411.9; 26-OCT-2007 19:12:47; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29569
 7; 2521.3; 26-OCT-2007 19:14:37; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29569
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10; 3424.5; 26-OCT-2007 19:29:40; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29569
11; 3638.5; 26-OCT-2007 19:33:14; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;29569
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13; 4013.2; 26-OCT-2007 19:39:29; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;29569
14; 4227.2; 26-OCT-2007 19:43:03; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;29569
15; 4653.8; 26-OCT-2007 19:50:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29569
16; 5833.8; 26-OCT-2007 20:09:49; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;29569
17; 6030.3; 26-OCT-2007 20:13:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29569
18; 6126.0; 26-OCT-2007 20:14:41; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;29569
19; 6219.5; 26-OCT-2007 20:16:15; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29569
20; 6879.3; 26-OCT-2007 20:27:15; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29569
21; 6963.6; 26-OCT-2007 20:28:39; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;29569

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 5; 2412.0; 26-OCT-2007 20:53:23; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29570
 6; 2521.1; 26-OCT-2007 20:55:13; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29570
 7; 2868.9; 26-OCT-2007 21:01:00; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29570
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 13; 4227.3; 26-OCT-2007 21:23:39; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;29570
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 4; 183.9; 26-OCT-2007 21:56:51; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;29571
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 6; 927.8; 26-OCT-2007 22:09:15; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;29571
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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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4;-1380.7; 27-OCT-2007 07:34:22; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;29576
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6; 12.2; 27-OCT-2007 07:57:35; Dark ; 38.5; 91; Kap Vel ; 2.49; 26000;occ; 77; 0;29577
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19; 2943.6; 27-OCT-2007 07:05:51; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29576
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8; 4010.5; 30-OCT-2007 10:50:34; Bright; 38.0; 82; 48Bet UMA ; 2.37; 10600;occ; 76; 0;29621
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14; 6356.3; 30-OCT-2007 11:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29621
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4; 328.0; 31-OCT-2007 00:54:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29630

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