

GOMOS Daily Report 29-MAY-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	31MAY2007 05:39:31
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (29MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

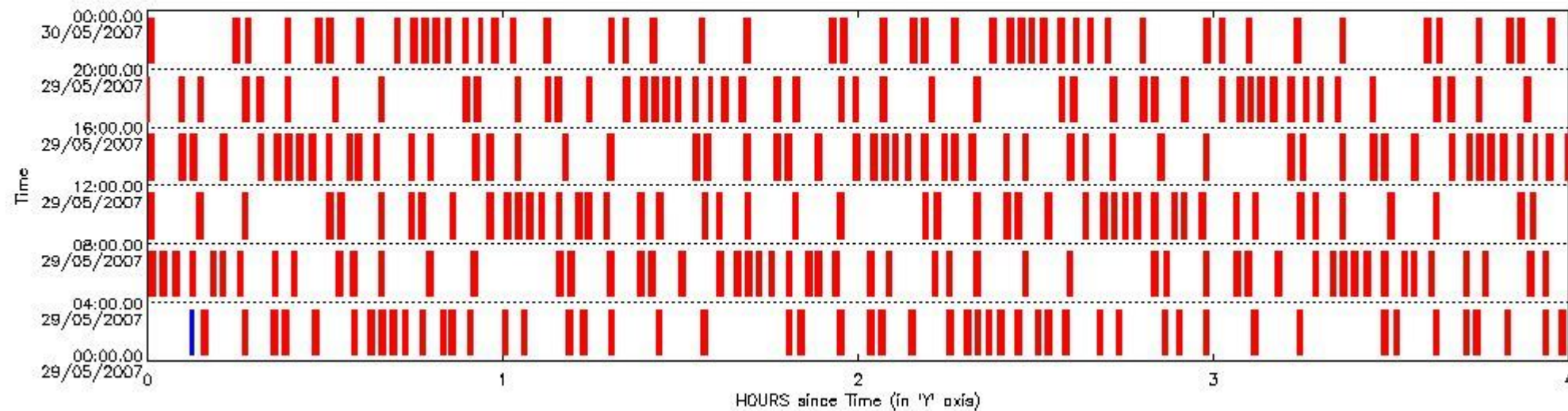
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
29-MAY-2007 00:09:06	16BetCet	52	27410
29-MAY-2007 00:15:51	AlpPhe	84	27410
29-MAY-2007 00:20:54	BetGru	63	27411
29-MAY-2007 00:22:43	AlpGru	31	27411
29-MAY-2007 00:27:52	AlpPav	45	27411
29-MAY-2007 00:34:19	BetAra	141	27411
29-MAY-2007 00:37:12	TheSco	40	27411
29-MAY-2007 00:39:01	35LamSco	25	27411
29-MAY-2007 00:40:53	26EpsSco	75	27411
29-MAY-2007 00:42:59	23TauSco	136	27411
29-MAY-2007 00:45:55	8Bet1Sco	97	27411
29-MAY-2007 00:49:20	27BetLib	104	27411
29-MAY-2007 00:50:54	1DelOph	120	27411
29-MAY-2007 00:53:56	24AlpSer	102	27411
29-MAY-2007 00:59:48		83	27411

29-MAY-2007 01:02:58	27GamBoo	180	27411
29-MAY-2007 01:10:38	14EtaDra	119	27411
29-MAY-2007 01:13:06	7BetUMi	60	27411
29-MAY-2007 01:17:45	1AlpUMi	49	27411
29-MAY-2007 01:25:52	27GamCas	76	27411
29-MAY-2007 01:33:28	43BetAnd	53	27411
29-MAY-2007 01:47:43	DSA1068	0	27411
29-MAY-2007 01:49:43	16BetCet	52	27411
29-MAY-2007 01:56:27	AlpPhe	84	27411
29-MAY-2007 02:01:31	BetGru	63	27412
29-MAY-2007 02:03:19	AlpGru	31	27412
29-MAY-2007 02:08:29	AlpPav	45	27412
29-MAY-2007 02:14:55	BetAra	141	27412
29-MAY-2007 02:17:48	TheSco	40	27412
29-MAY-2007 02:19:37	35LamSco	25	27412
29-MAY-2007 02:21:30	26EpsSco	75	27412
29-MAY-2007 02:23:35	23TauSco	136	27412
29-MAY-2007 02:26:31	8Bet1Sco	97	27412
29-MAY-2007 02:29:56	27BetLib	104	27412
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29-MAY-2007 02:53:42	7BetUMi	60	27412
29-MAY-2007 02:58:21	1AlpUMi	49	27412
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29-MAY-2007 03:14:04	43BetAnd	53	27412
29-MAY-2007 03:28:20	DSA1068	0	27412
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29-MAY-2007 04:04:11	23TauSco	136	27413
29-MAY-2007 04:07:07	8Bet1Sco	97	27413
29-MAY-2007 04:10:32	27BetLib	104	27413
29-MAY-2007 04:12:05	1DelOph	120	27413
29-MAY-2007 04:15:07	24AlpSer	102	27413
29-MAY-2007 04:20:59		83	27413
29-MAY-2007 04:24:10	27GamBoo	180	27413
29-MAY-2007 04:31:50	14EtaDra	119	27413
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29-MAY-2007 04:38:57	1AlpUMi	49	27413
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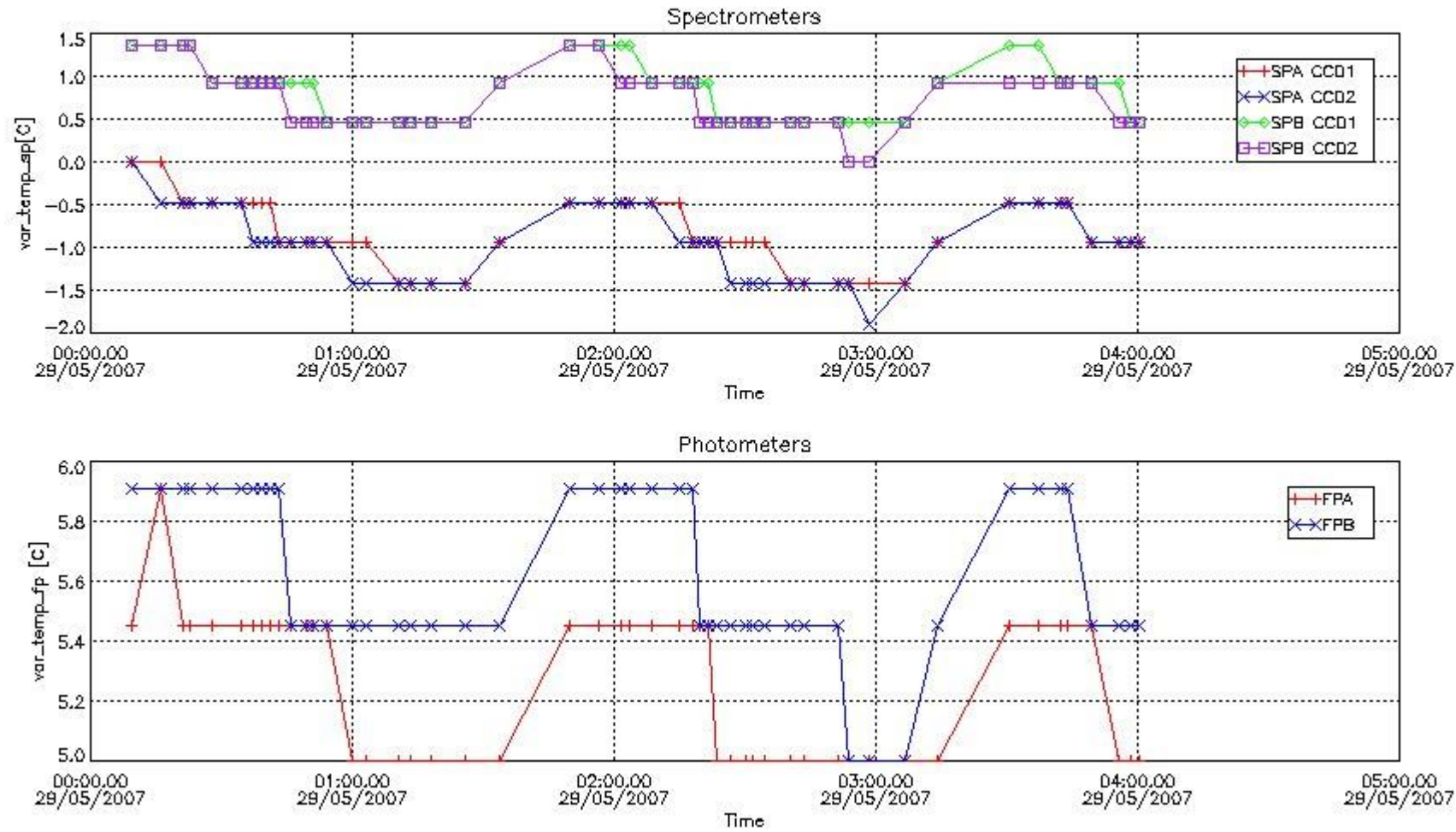
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29-MAY-2007 23:44:21	AlpPhe	84	27424
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29-MAY-2007 23:51:18	AlpGru	31	27425
29-MAY-2007 23:56:25	AlpPav	45	27425

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_1PNPDE20070529_000914_000000472058_00302_27410_4307.N1	29-MAY-2007 00:09:14	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	27410	No
2	GOM_TRA_1PNPDE20070529_001558_000000442058_00302_27410_4308.N1	29-MAY-2007 00:15:58	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27410	No
3	GOM_TRA_1PNPDE20070529_002102_000000472058_00303_27411_4309.N1	29-MAY-2007 00:21:02	Dark	46.500	63	Bet Gru	2.1500	2800.0	93	27411	No
4	GOM_TRA_1PNPDE20070529_002250_000000442058_00303_27411_4310.N1	29-MAY-2007 00:22:50	Dark	44.000	31	Alp Gru	1.7340	15200.	88	27411	No
5	GOM_TRA_1PNPDE20070529_002800_000000412058_00303_27411_4311.N1	29-MAY-2007 00:28:00	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27411	No
6	GOM_TRA_1PNPDE20070529_003427_000000432058_00303_27411_4312.N1	29-MAY-2007 00:34:27	Straylight	43.000	141	Bet Ara	2.8400	4600.0	86	27411	No
7	GOM_TRA_1PNPDE20070529_003720_000000462058_00303_27411_4313.N1	29-MAY-2007 00:37:20	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27411	No
8	GOM_TRA_1PNPDE20070529_003909_000000492058_00303_27411_4314.N1	29-MAY-2007 00:39:09	Twi_and_stray	49.000	25	35Lam Sco	1.6200	28000.	98	27411	No
9	GOM_TRA_1PNPDE20070529_004101_000000482058_00303_27411_4315.N1	29-MAY-2007 00:41:01	Twi_and_stray	48.000	75	26Eps Sco	2.2910	4250.0	96	27411	No
10	GOM_TRA_1PNPDE20070529_004307_000000442058_00303_27411_4316.N1	29-MAY-2007 00:43:07	Twi_and_stray	44.000	136	23Tau Sco	2.8220	30000.	88	27411	No
11	GOM_TRA_1PNPDE20070529_004603_000000392058_00303_27411_4317.N1	29-MAY-2007 00:46:03	Bright	38.500	97	8Bet1Sco	2.5610	30000.	77	27411	No
12	GOM_TRA_1PNPDE20070529_004928_000000362058_00303_27411_4318.N1	29-MAY-2007 00:49:28	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	27411	No
13	GOM_TRA_1PNPDE20070529_005102_000000422058_00303_27411_4319.N1	29-MAY-2007 00:51:02	Bright	41.500	120	1Del Oph	2.7340	3200.0	83	27411	No
14	GOM_TRA_1PNPDE20070529_005403_000000382058_00303_27411_4320.N1	29-MAY-2007 00:54:03	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	27411	No
15	GOM_TRA_1PNPDE20070529_005955_000000372058_00303_27411_4321.N1	29-MAY-2007 00:59:55	Bright	36.500	83		2.3780	11000.	73	27411	No
16	GOM_TRA_1PNPDE20070529_010306_000000352058_00303_27411_4322.N1	29-MAY-2007 01:03:06	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	27411	No
17	GOM_TRA_1PNPDE20070529_011046_000000402058_00303_27411_4323.N1	29-MAY-2007 01:10:46	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	27411	No
18	GOM_TRA_1PNPDE20070529_011314_000000372058_00303_27411_4324.N1	29-MAY-2007 01:13:14	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27411	No
19	GOM_TRA_1PNPDE20070529_011753_000000362058_00303_27411_4325.N1	29-MAY-2007 01:17:53	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	27411	No
20	GOM_TRA_1PNPDE20070529_012559_000000362058_00303_27411_4326.N1	29-MAY-2007 01:25:59	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	27411	No
21	GOM_TRA_1PNPDE20070529_013335_000000402058_00303_27411_4327.N1	29-MAY-2007 01:33:35	Bright	39.500	53	43Bet And	2.0480	3300.0	79	27411	No
22	GOM_TRA_1PNPDE20070529_014950_000000462058_00303_27411_4455.N1	29-MAY-2007 01:49:50	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	27411	No
23	GOM_TRA_1PNPDE20070529_015635_000000432058_00303_27411_4456.N1	29-MAY-2007 01:56:35	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27411	No
24	GOM_TRA_1PNPDE20070529_020139_000000492058_00304_27412_4457.N1	29-MAY-2007 02:01:39	Dark	48.500	63	Bet Gru	2.1500	2800.0	97	27412	No
25	GOM_TRA_1PNPDE20070529_020327_000000452058_00304_27412_4458.N1	29-MAY-2007 02:03:27	Dark	45.000	31	Alp Gru	1.7340	15200.	90	27412	No
26	GOM_TRA_1PNPDE20070529_020837_000000442058_00304_27412_4459.N1	29-MAY-2007 02:08:37	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27412	No
27	GOM_TRA_1PNPDE20070529_021503_000000422058_00304_27412_4460.N1	29-MAY-2007 02:15:03	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27412	No
28	GOM_TRA_1PNPDE20070529_021756_000000472058_00304_27412_4461.N1	29-MAY-2007 02:17:56	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27412	No
29	GOM_TRA_1PNPDE20070529_021945_000000482058_00304_27412_4462.N1	29-MAY-2007 02:19:45	Twi_and_stray	47.500	25	35Lam Sco	1.6200	28000.	95	27412	No
30	GOM_TRA_1PNPDE20070529_022138_000000452058_00304_27412_4463.N1	29-MAY-2007 02:21:38	Twi_and_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	27412	No
31	GOM_TRA_1PNPDE20070529_022343_000000412058_00304_27412_4464.N1	29-MAY-2007 02:23:43	Twi_and_stray	41.000	136	23Tau Sco	2.8220	30000.	82	27412	No
32	GOM_TRA_1PNPDE20070529_022639_000000402058_00304_27412_4465.N1	29-MAY-2007 02:26:39	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	27412	No
33	GOM_TRA_1PNPDE20070529_023004_000000372058_00304_27412_4466.N1	29-MAY-2007 02:30:04	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	27412	No
34	GOM_TRA_1PNPDE20070529_023137_000000412058_00304_27412_4467.N1	29-MAY-2007 02:31:37	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	27412	No
35	GOM_TRA_1PNPDE20070529_023439_000000382058_00304_27412_4468.N1	29-MAY-2007 02:34:39	Bright	37.500	102	24Alp Ser	2.6000	4250.0	75	27412	No
36	GOM_TRA_1PNPDE20070529_024031_000000372058_00304_27412_4469.N1	29-MAY-2007 02:40:31	Bright	36.500	83		2.3780	11000.	73	27412	No
37	GOM_TRA_1PNPDE20070529_024342_000000352058_00304_27412_4470.N1	29-MAY-2007 02:43:42	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	27412	No
38	GOM_TRA_1PNPDE20070529_025122_000000402058_00304_27412_4471.N1	29-MAY-2007 02:51:22	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	27412	No
39	GOM_TRA_1PNPDE20070529_025350_000000332058_00304_27412_4472.N1	29-MAY-2007 02:53:50	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27412	No
40	GOM_TRA_1PNPDE20070529_025829_000000332058_00304_27412_4473.N1	29-MAY-2007 02:58:29	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27412	No
41	GOM_TRA_1PNPDE20070529_030635_000000552058_00304_27412_4615.N1	29-MAY-2007 03:06:35	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27412	No
42	GOM_TRA_1PNPDE20070529_031412_000000422058_00304_27412_4616.N1	29-MAY-2007 03:14:12	Bright	41.500	53	43Bet And	2.0480	3300.0	83	27412	No
43	GOM_TRA_1PNPDE20070529_033027_000000462058_00304_27412_4617.N1	29-MAY-2007 03:30:27	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	27412	No
44	GOM_TRA_1PNPDE20070529_033711_000000432058_00304_27412_4618.N1	29-MAY-2007 03:37:11	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	27412	No
45	GOM_TRA_1PNPDE20070529_034216_000000472058_00305_27413_4619.N1	29-MAY-2007 03:42:16	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	27413	No
46	GOM_TRA_1PNPDE20070529_034404_000000442058_00305_27413_4620.N1	29-MAY-2007 03:44:04	Dark	44.000	31	Alp Gru	1.7340	15200.	88	27413	No
47	GOM_TRA_1PNPDE20070529_034914_000000442058_00305_27413_4621.N1	29-MAY-2007 03:49:14	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27413	No
48	GOM_TRA_1PNPDE20070529_035540_000000412058_00305_27413_4622.N1	29-MAY-2007 03:55:40	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27413	No
49	GOM_TRA_1PNPDE20070529_035833_000000452058_00305_27413_4623.N1	29-MAY-2007 03:58:33	Straylight	45.000	40	The Sco	1.8590	7100.0	90	27413	No
50	GOM_TRA_1PNPDE20070529_040022_000000502058_00305_27413_4624.N1	29-MAY-2007 04:00:22	Twi_and_stray	49.500	25	35Lam Sco	1.6200	28000.	99	27413	No

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



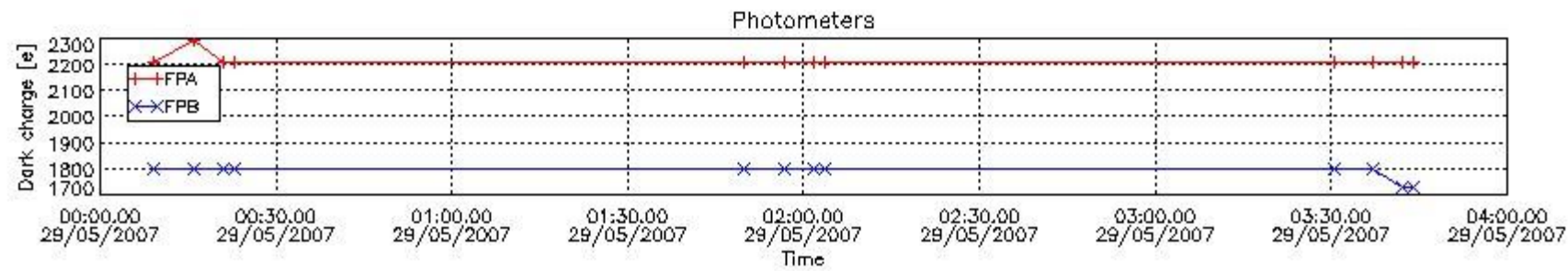
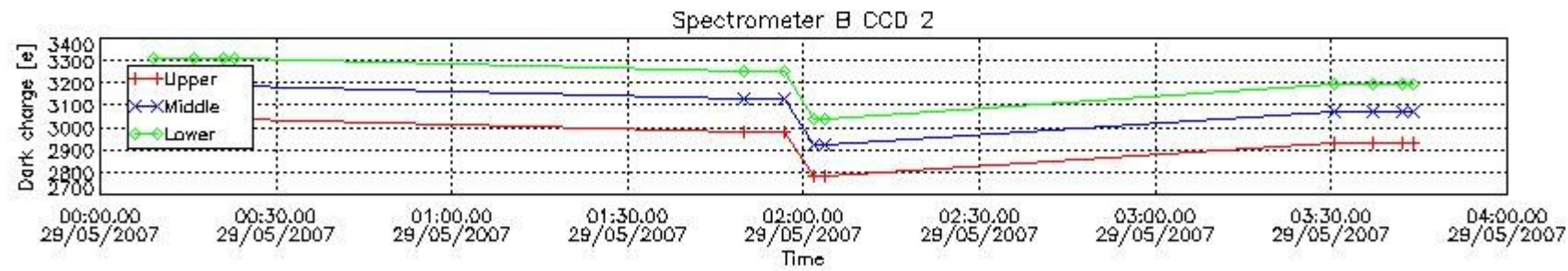
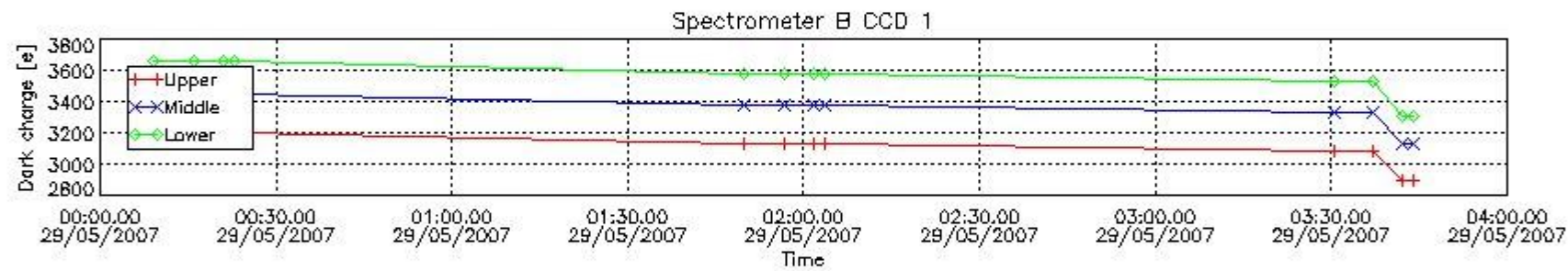
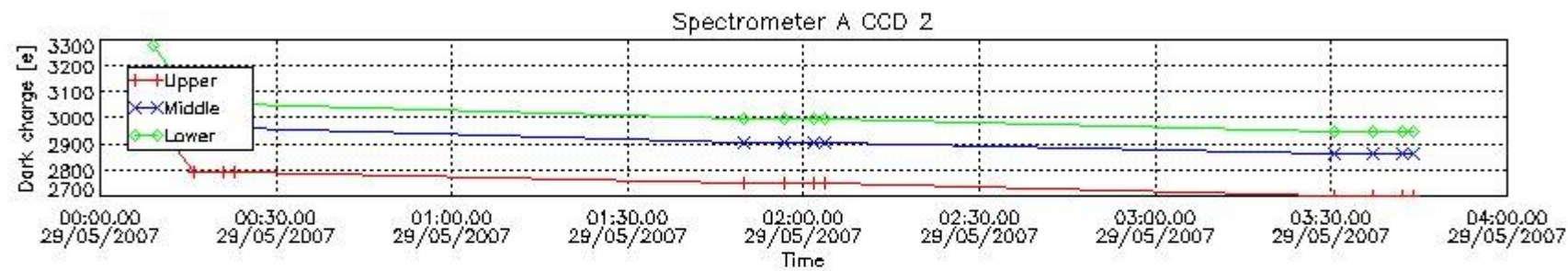
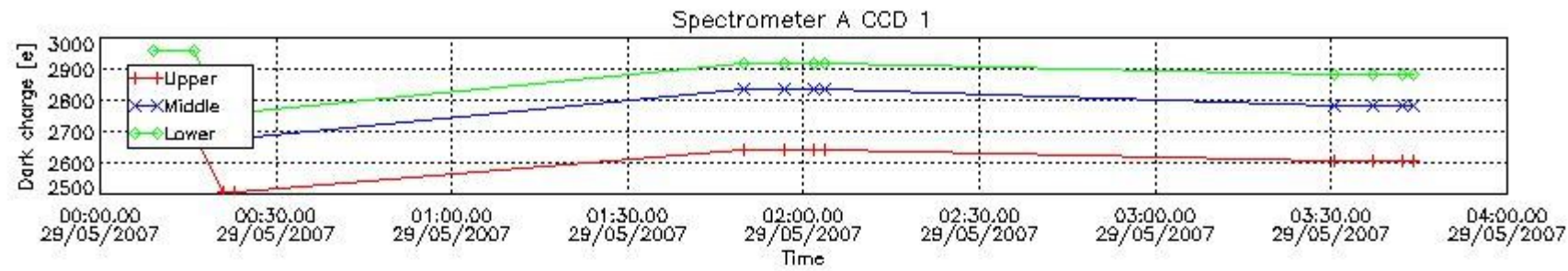
4. Overview of dark signal processing per product

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



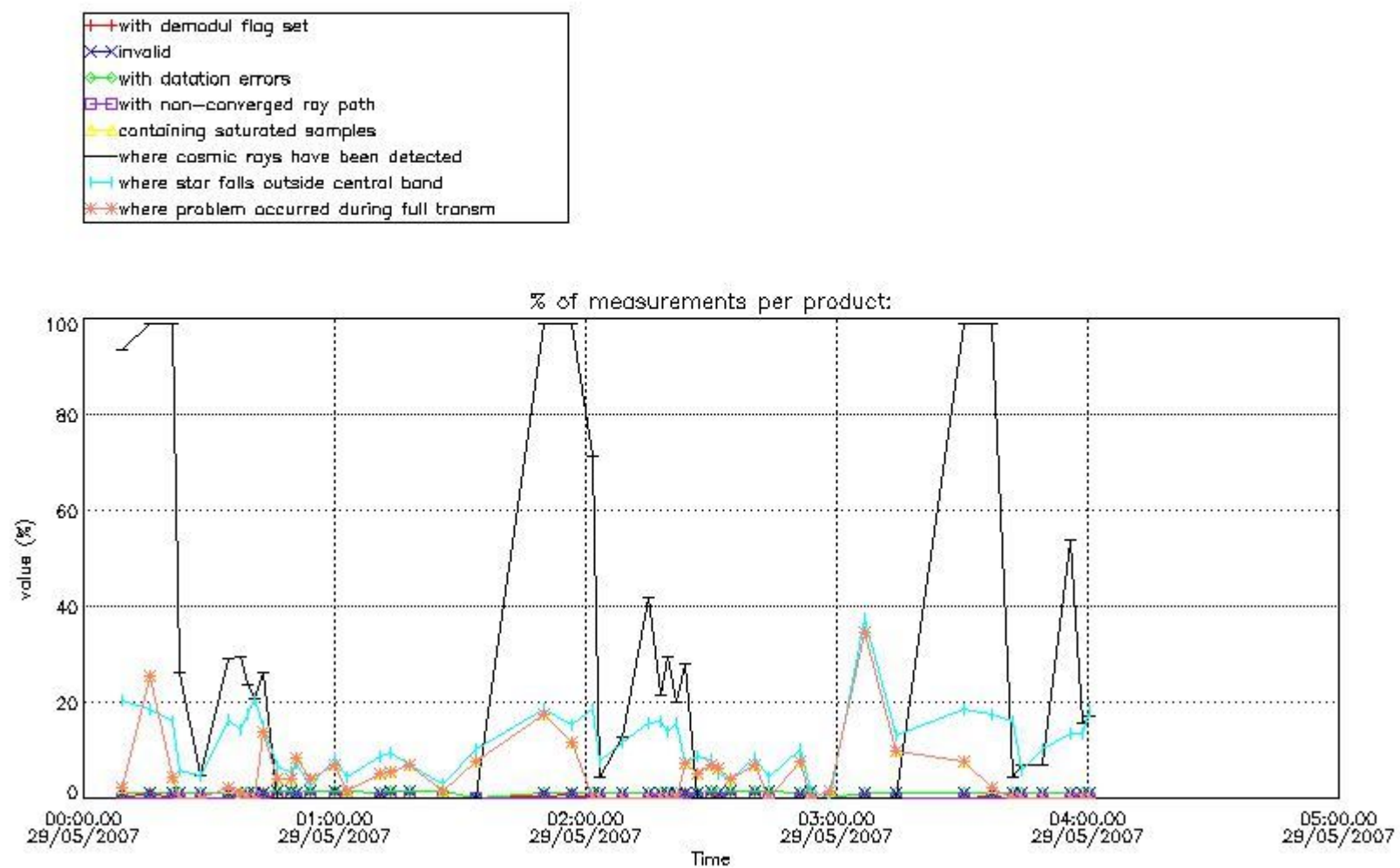
5. Demodulation flag and quality information monitoring

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.

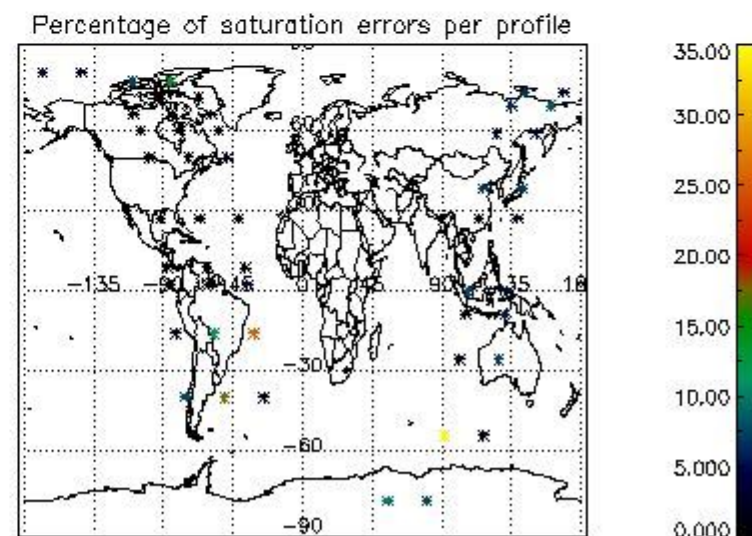
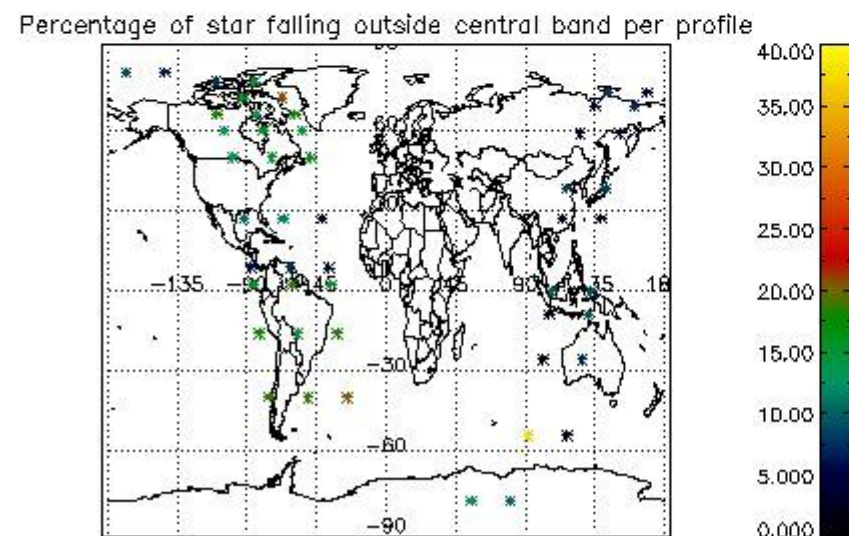
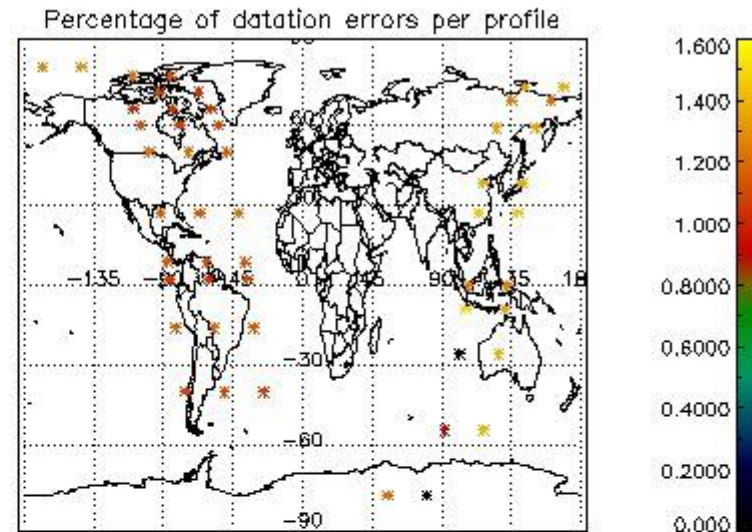
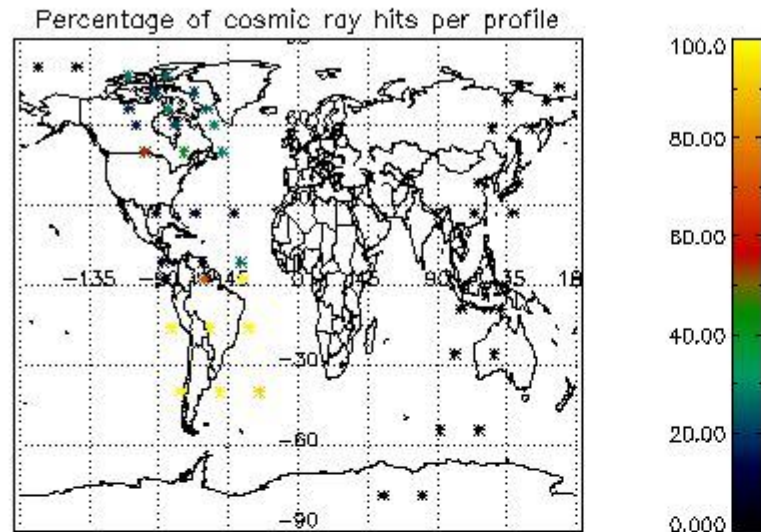
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



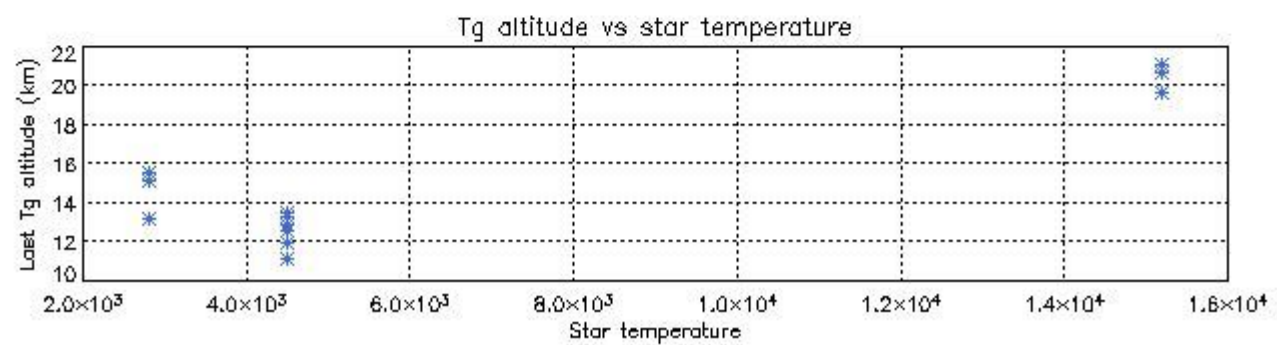
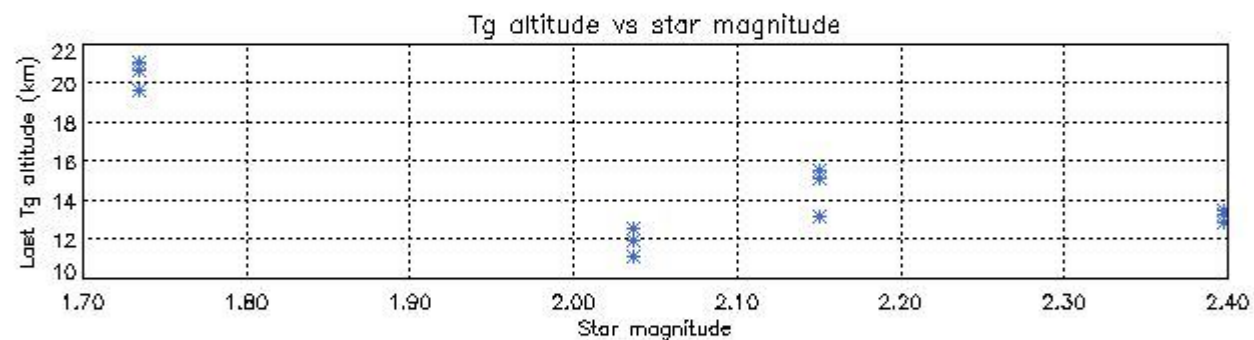
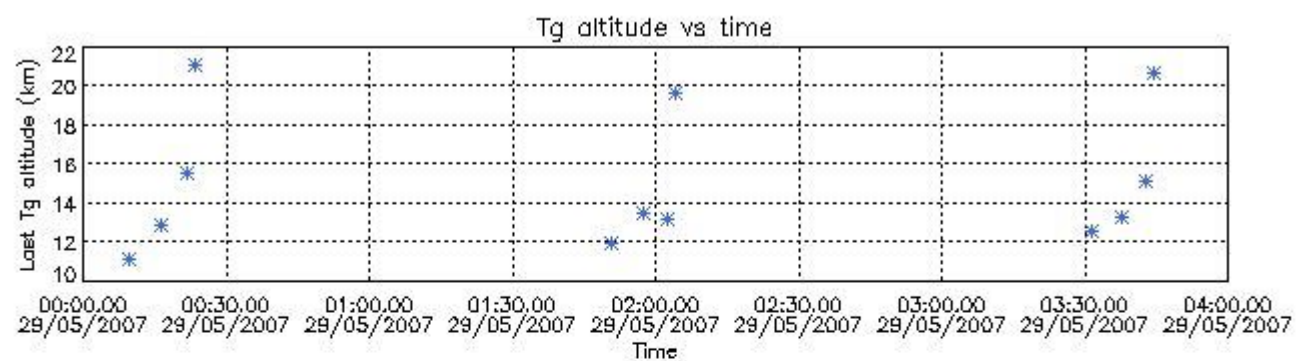
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.046	20.284	NaN
St. deviation:	3.4985	4.8329	NaN
Maximum:	21.079	28.771	NaN
Minimum:	11.161	3.7719	NaN
Number of data:	12.000	22.000	NaN

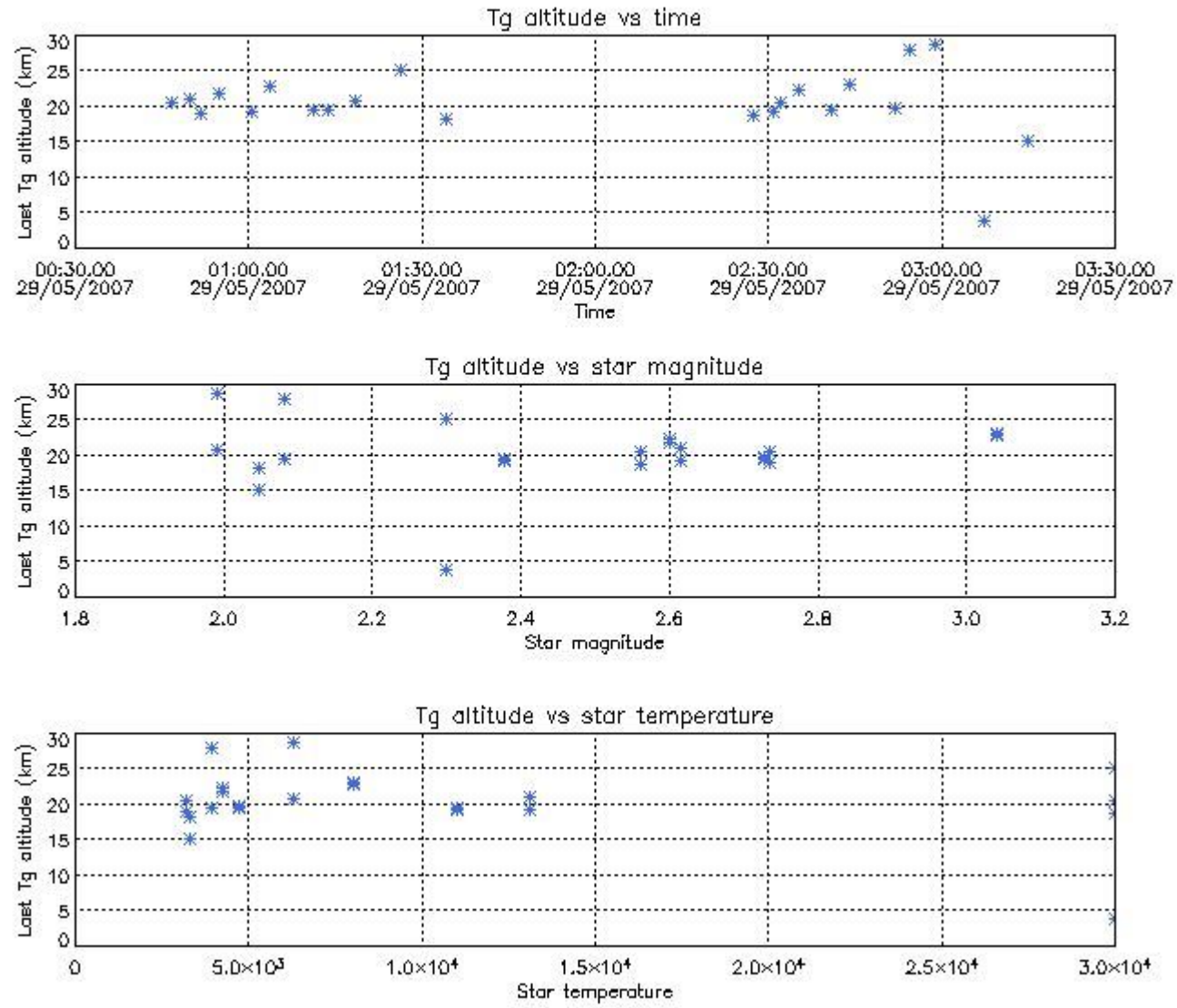
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

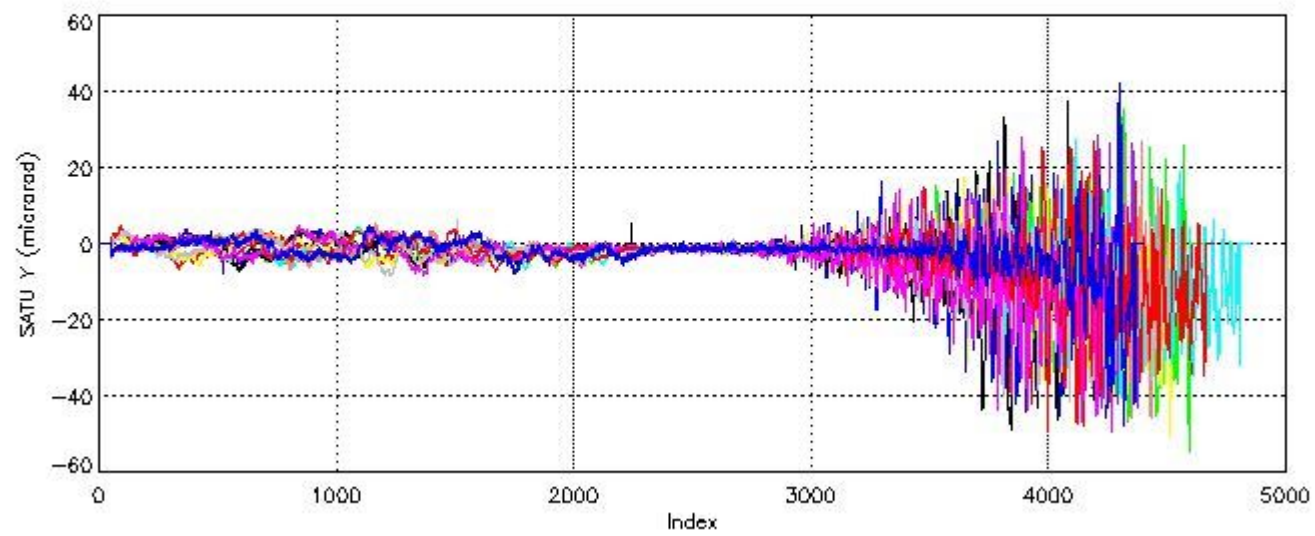
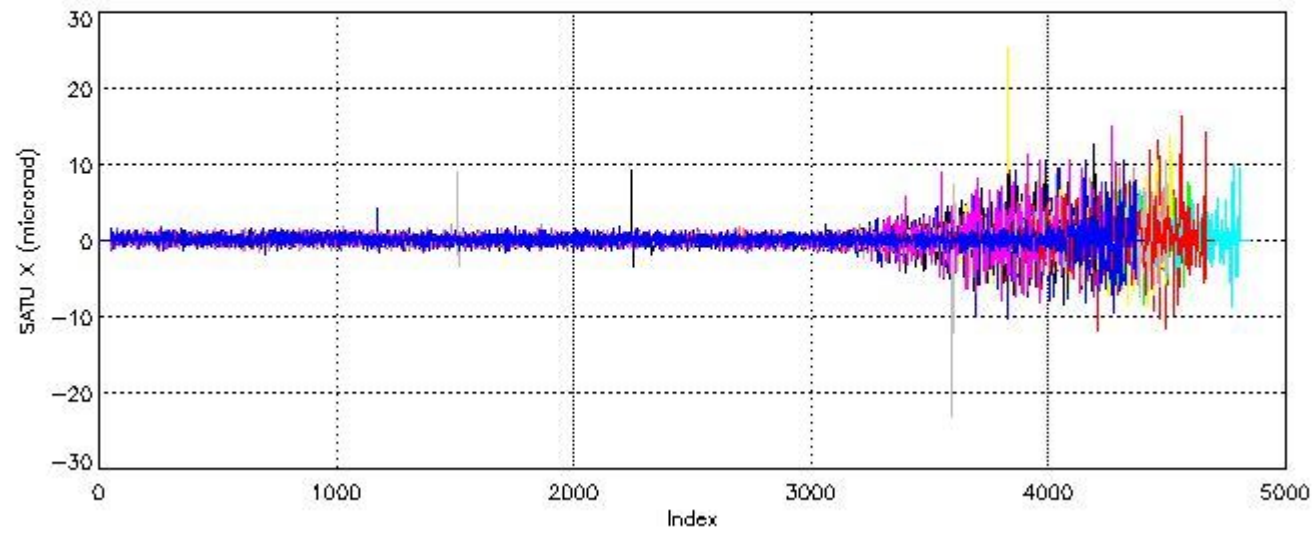


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15229	-0.82891	0.13821	-0.82165
St. deviation:	0.32716	1.9694	0.72675	2.4232
Maximum:	1.8000	4.8000	5.2000	6.7000
Minimum:	-1.9000	-8.1000	-4.6000	-10.100

Number of data:	12050.	12050.	18700.	18700.
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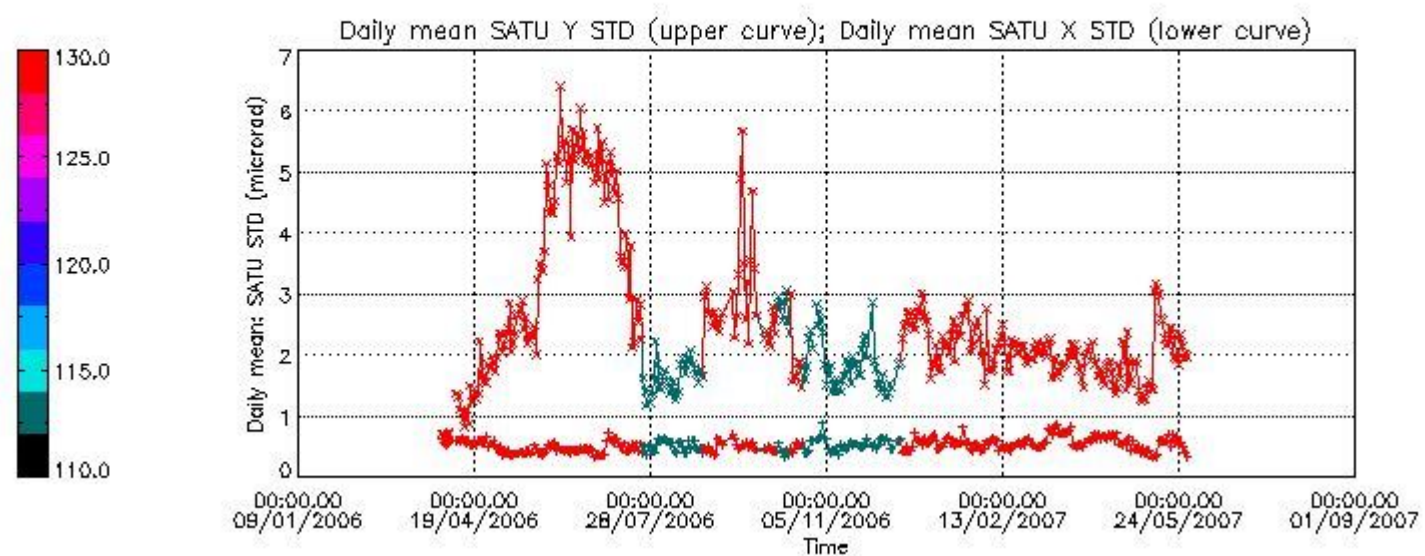
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

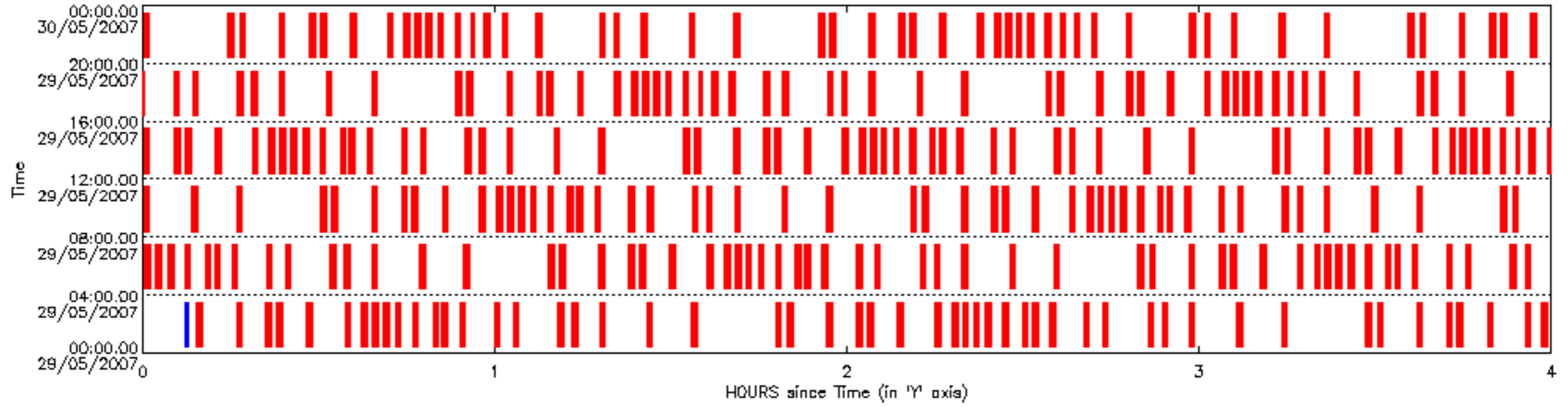
Lower curve: STD of SATU X axis

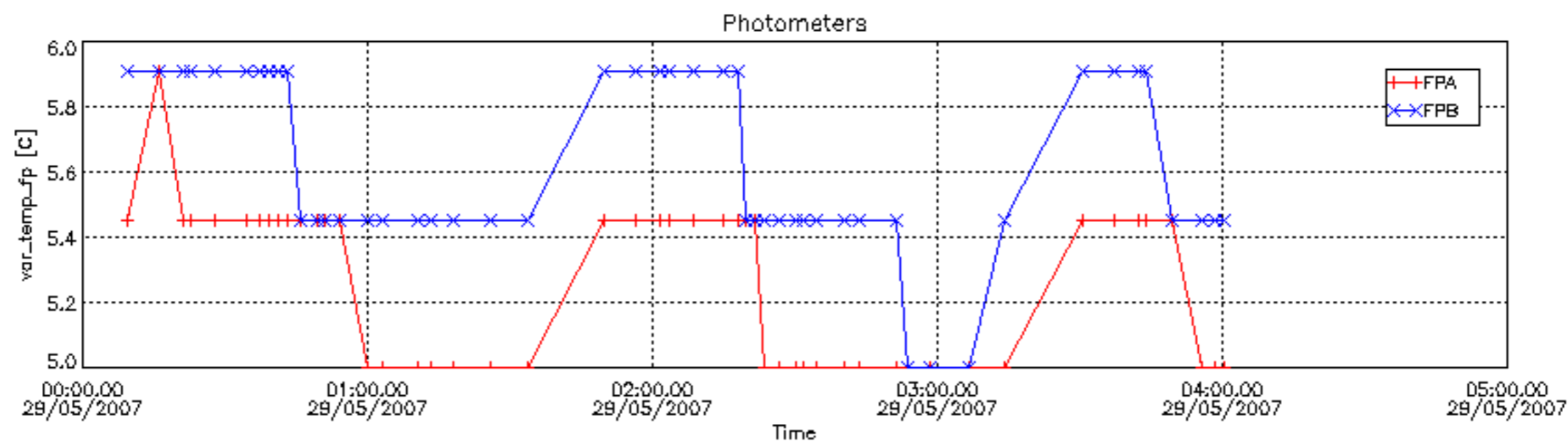
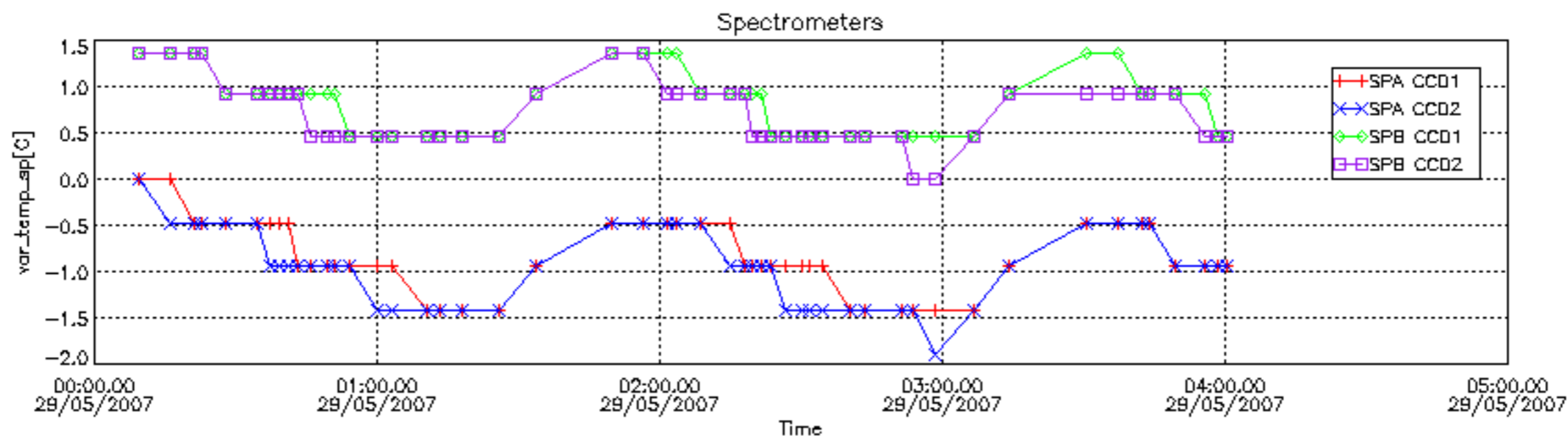


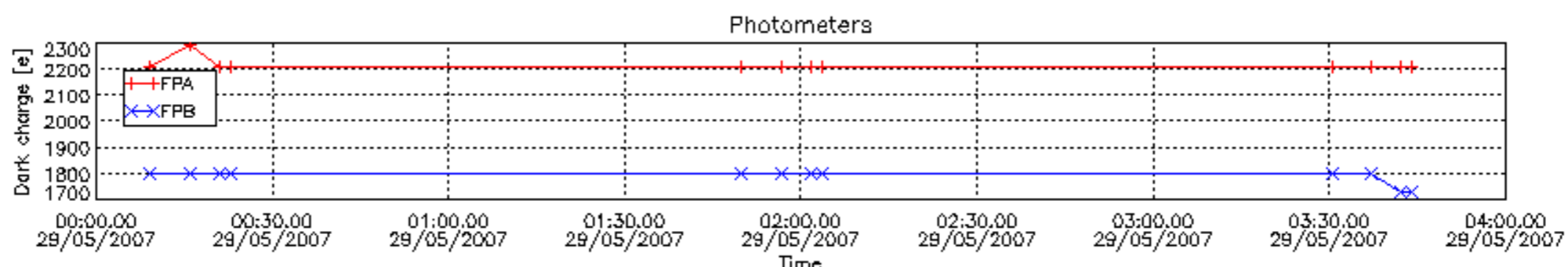
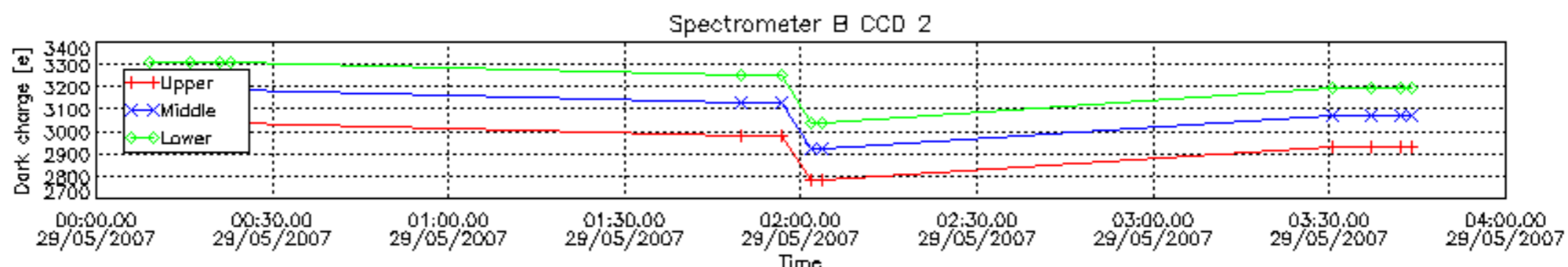
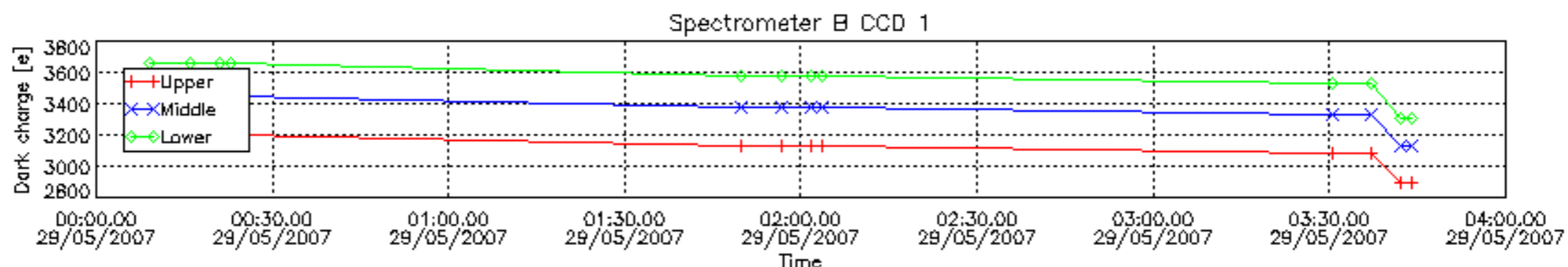
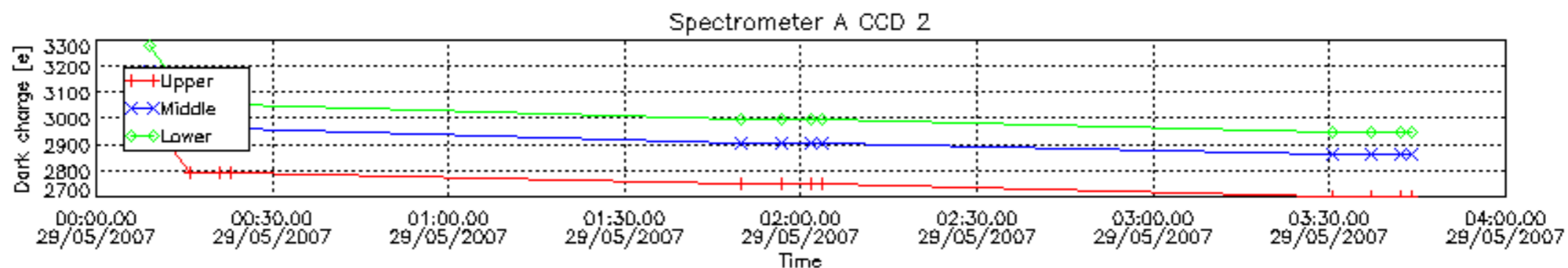
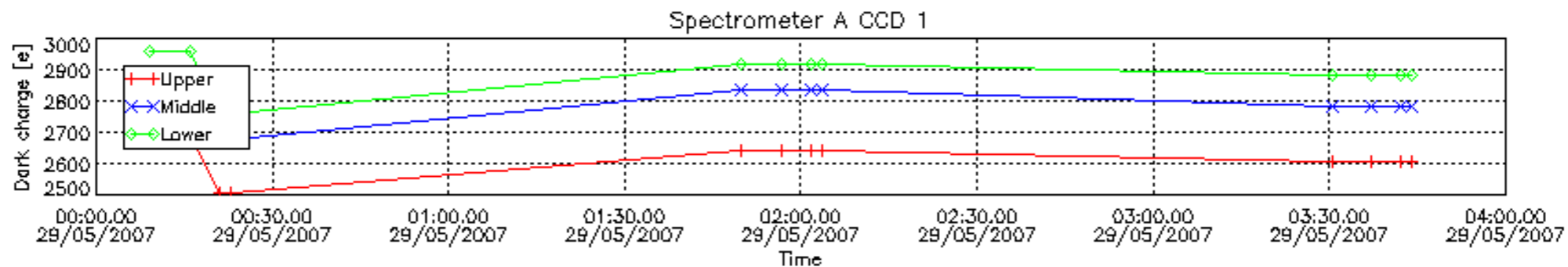
8. Auxiliary Data Files used for the production reported in section 2.4

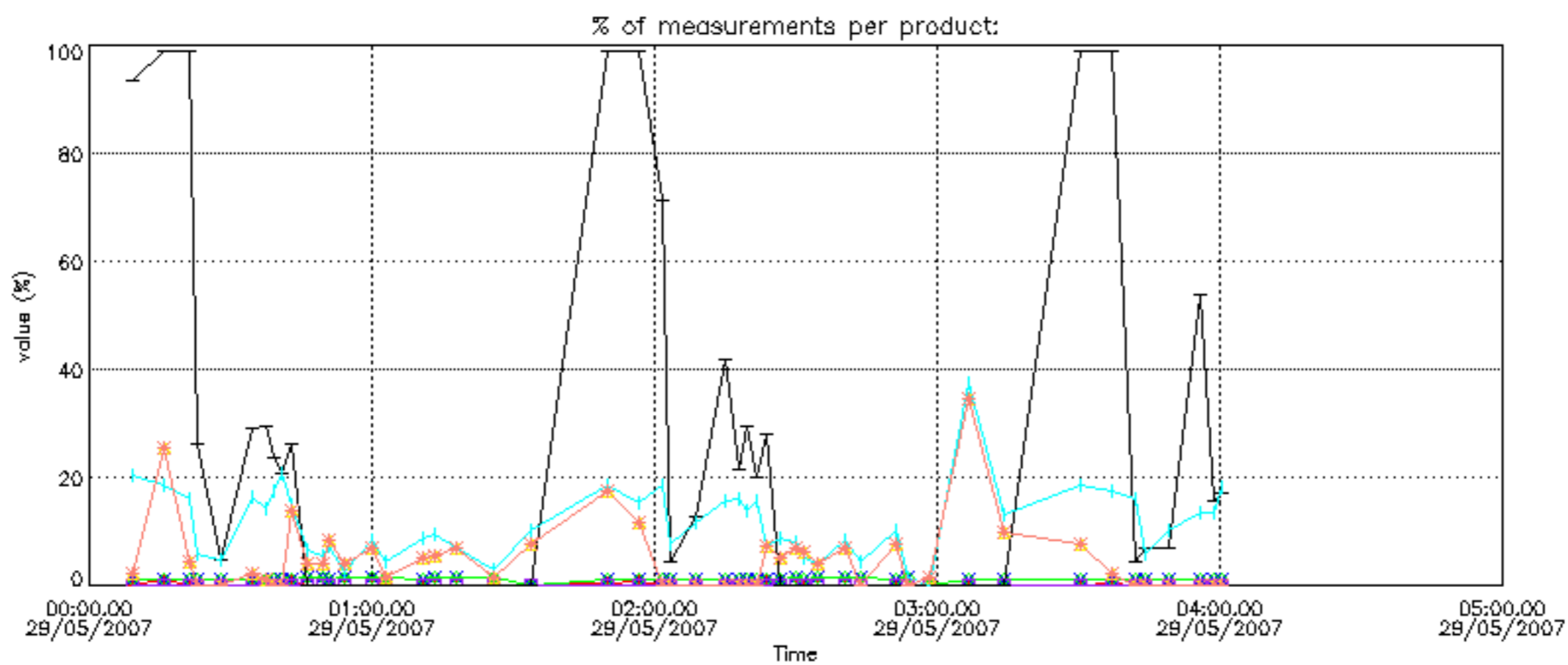
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-MAY-2007 00:09:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070525_094239_20070524_000000_20100101_000000	1	29-MAY-2007 00:09:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-MAY-2007 00:09:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-MAY-2007 00:09:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-MAY-2007 00:09:14
ECMWF_FILE	AUX_ECF_AXNECM20070528_062110_20070528_210000_20070529_090000	1	29-MAY-2007 00:09:14
ECMWF_FILE	AUX_ECF_AXNECM20070528_182001_20070529_030000_20070529_150000	41	29-MAY-2007 03:06:35
OPTIONAL_ECMWF_FILE	MISSING	1	29-MAY-2007 00:09:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070528_193024_000038262058_00300_27408_3576.N1	1	29-MAY-2007 00:09:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070529_014220_000041442058_00303_27411_3580.N1	22	29-MAY-2007 01:49:50

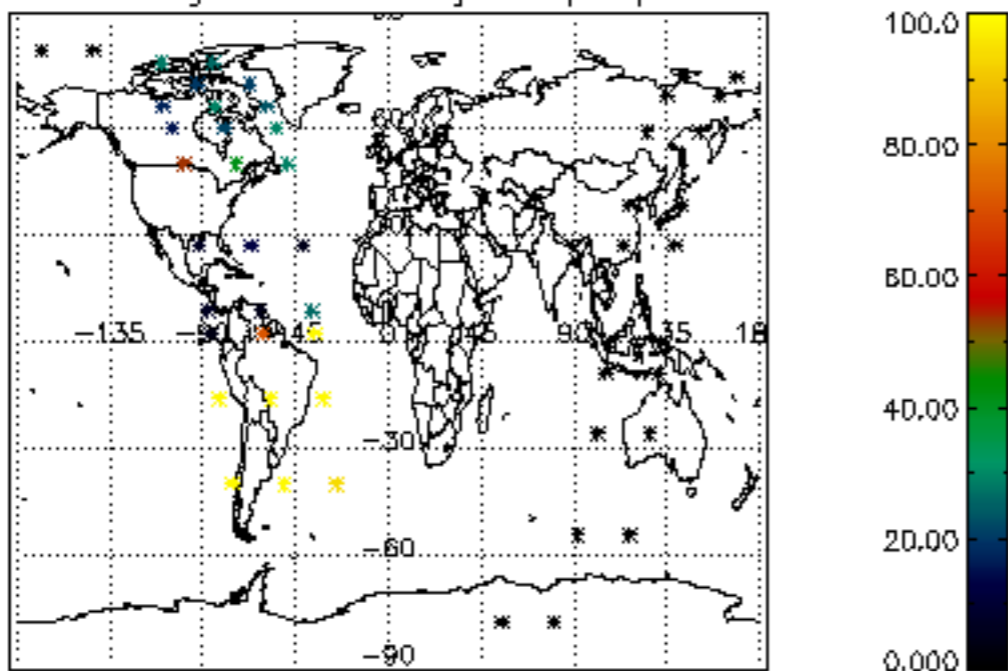




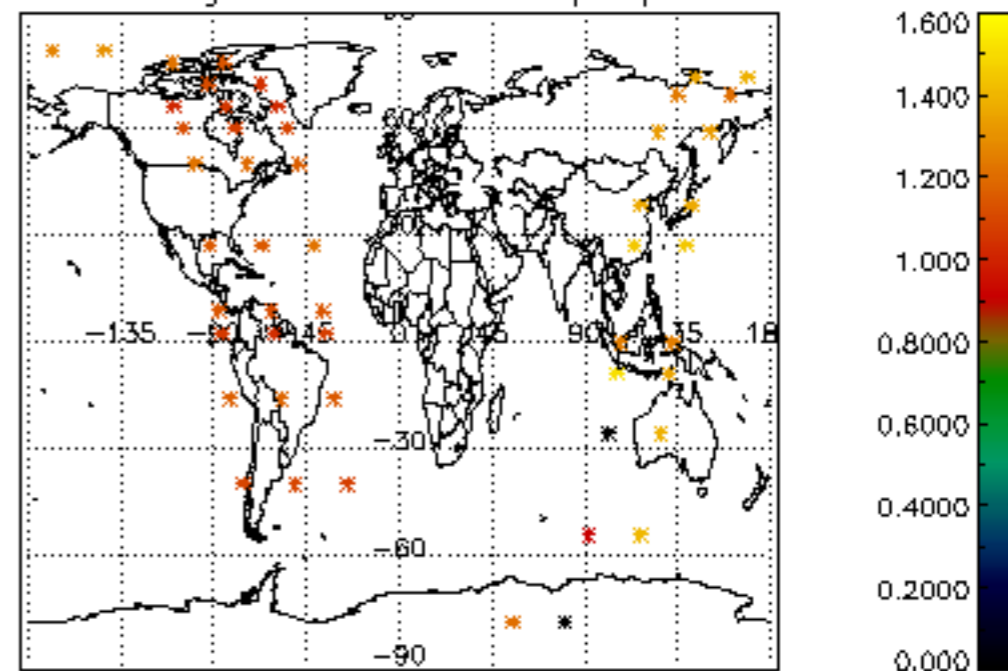




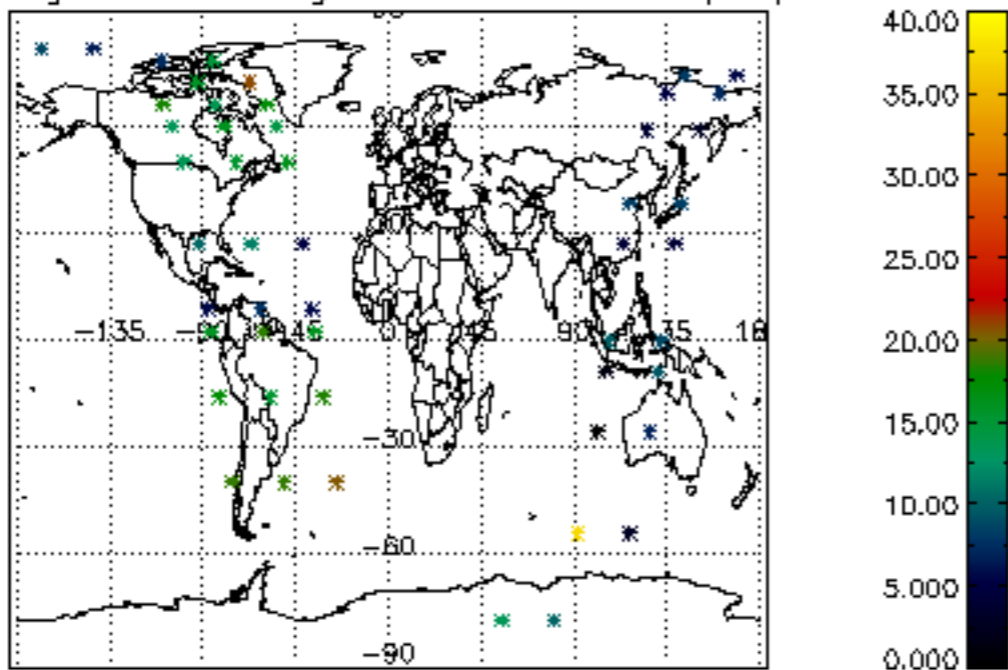
Percentage of cosmic ray hits per profile



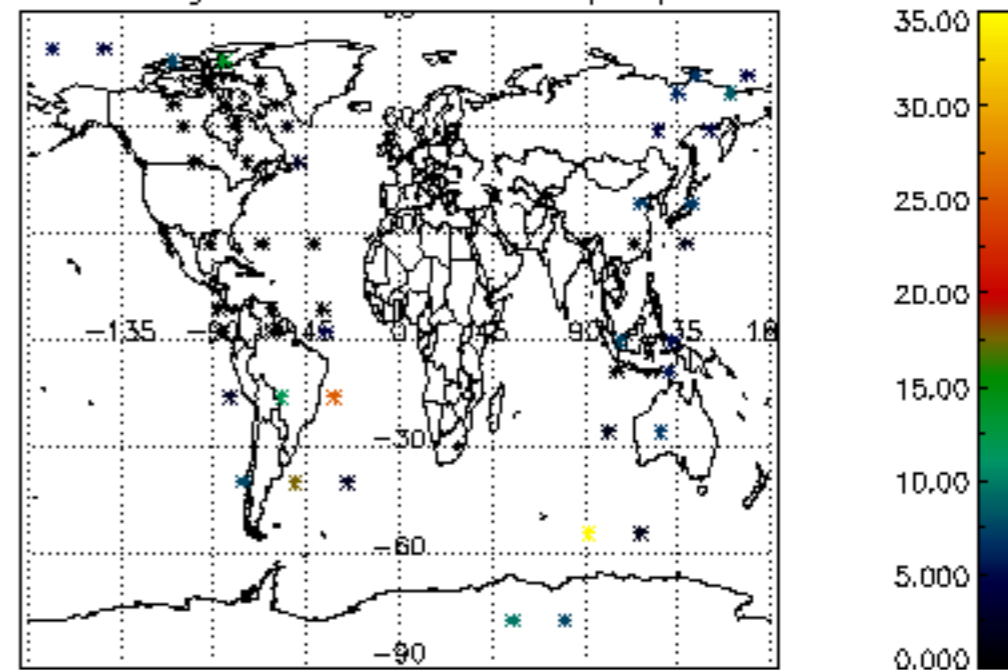
Percentage of datation errors per profile



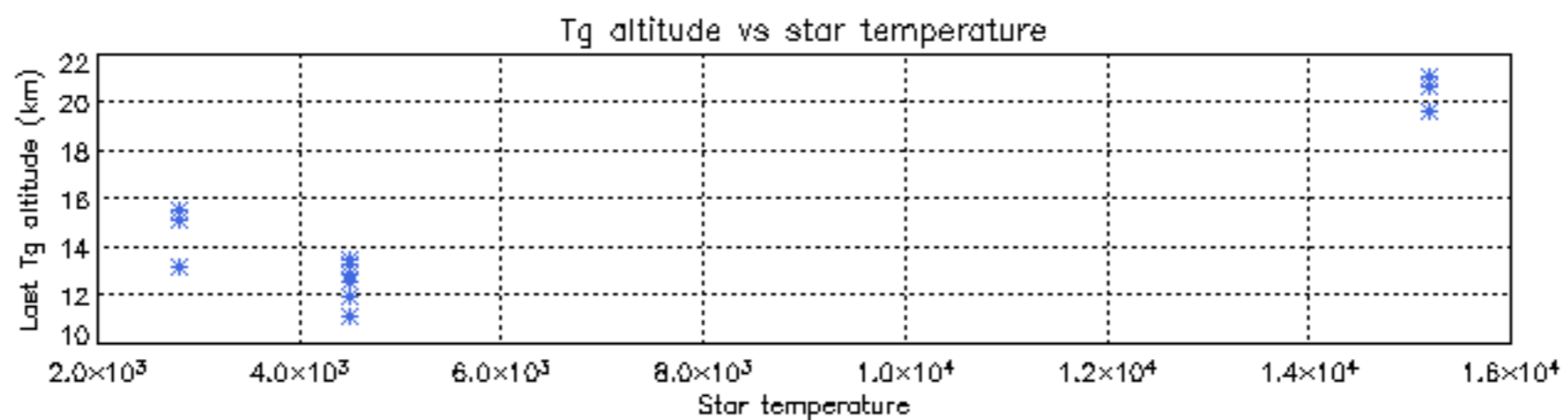
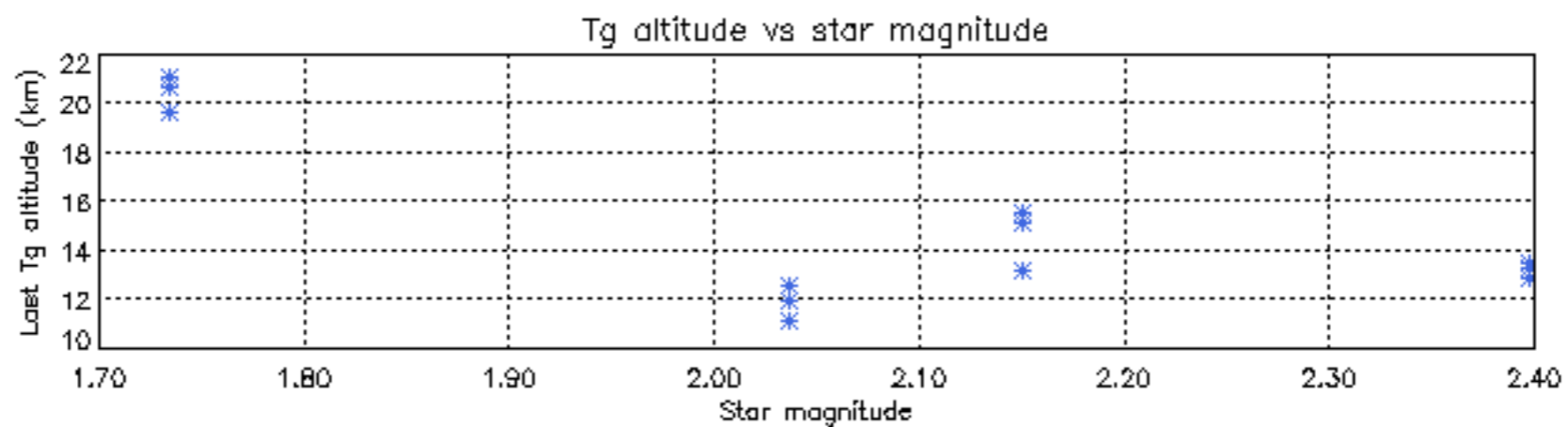
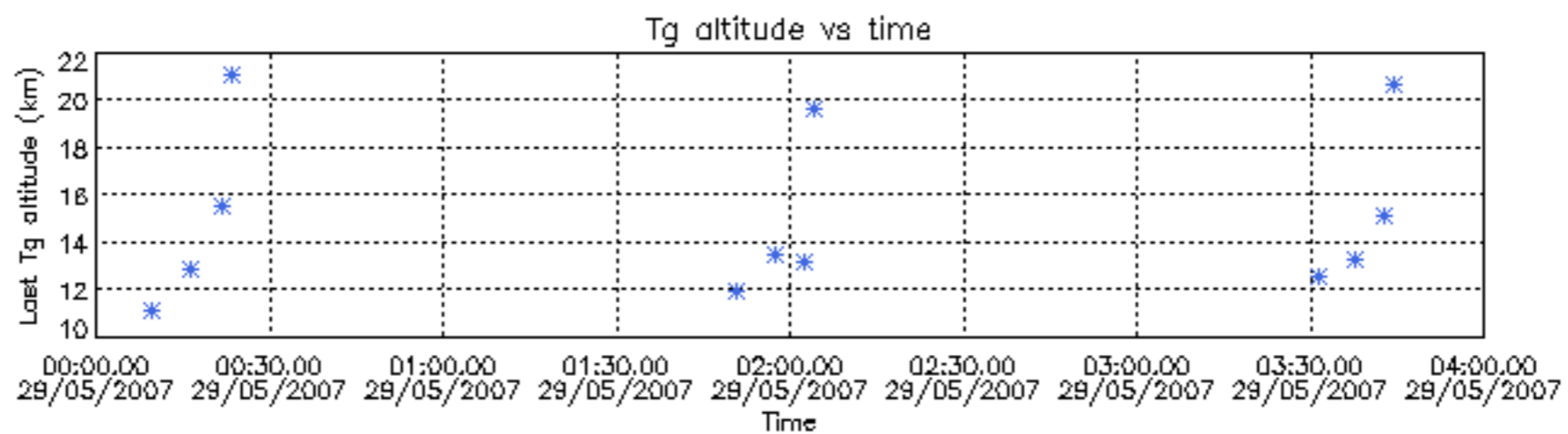
Percentage of star falling outside central band per profile



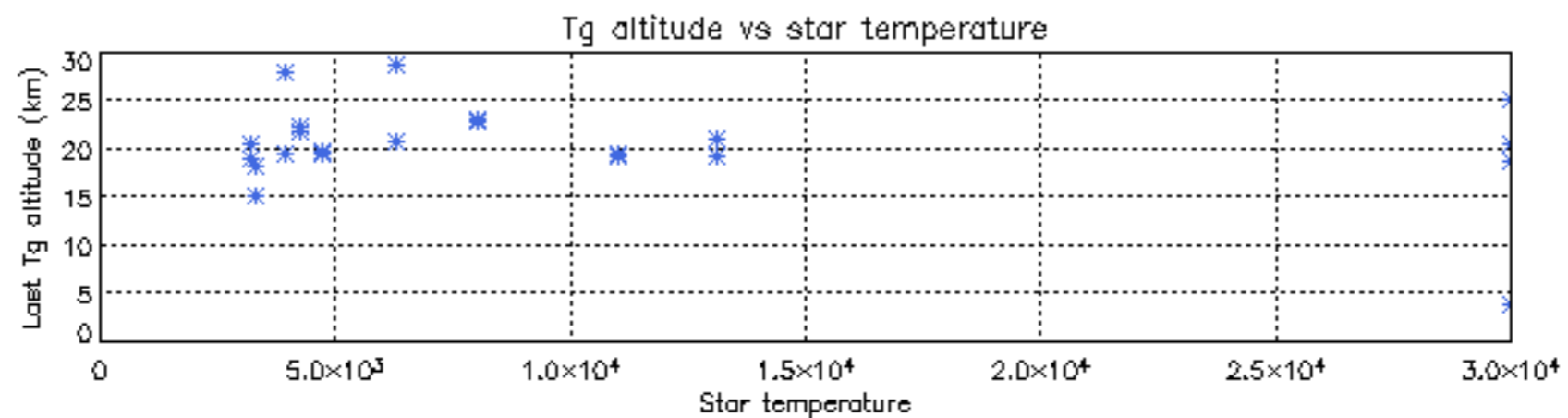
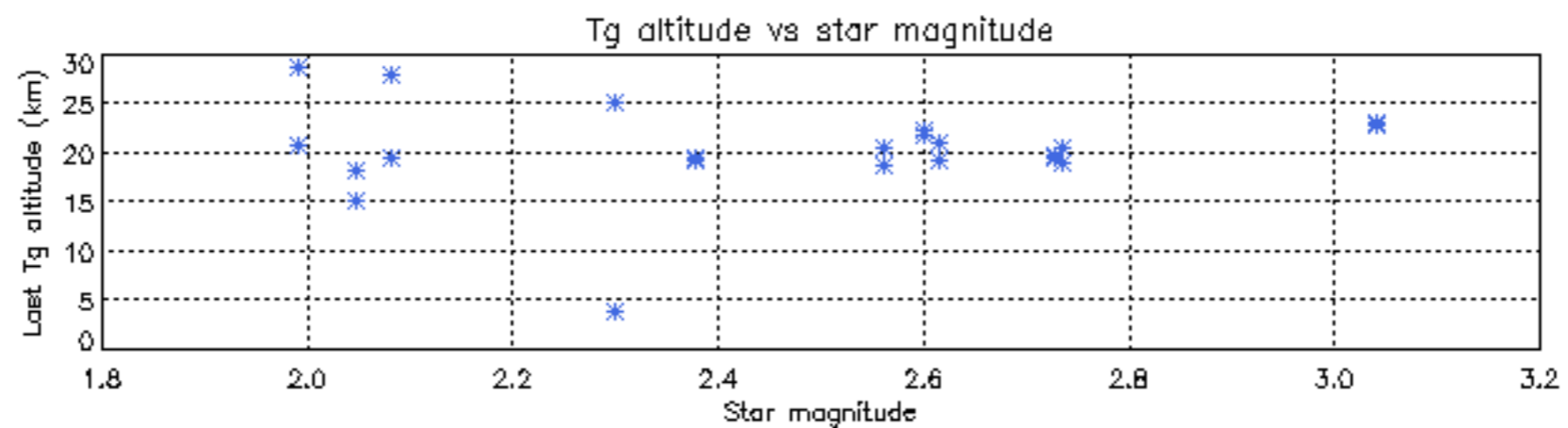
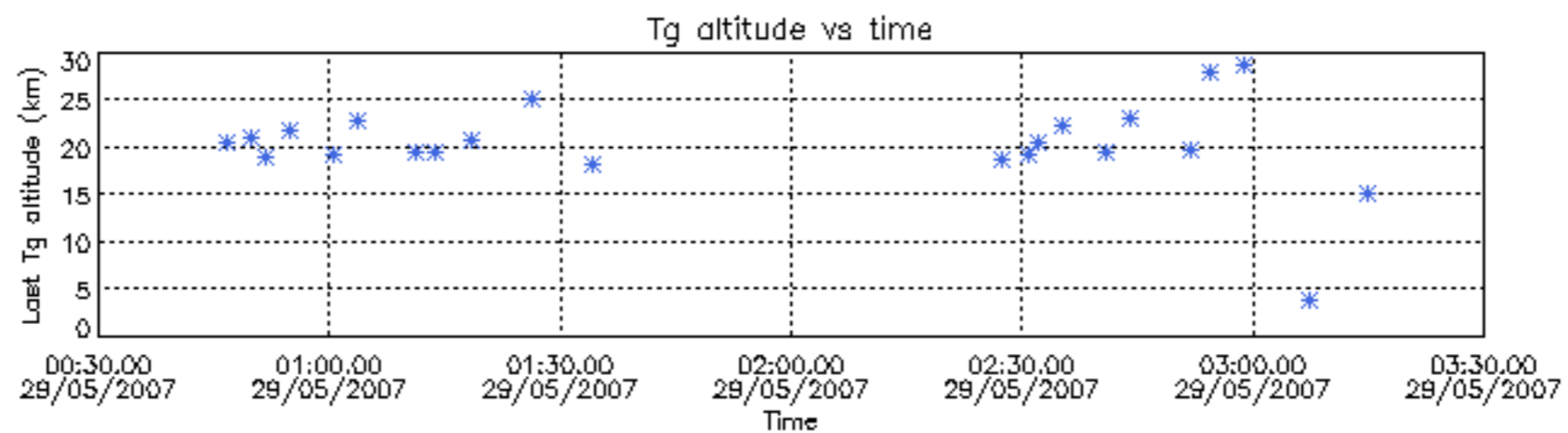
Percentage of saturation errors per profile

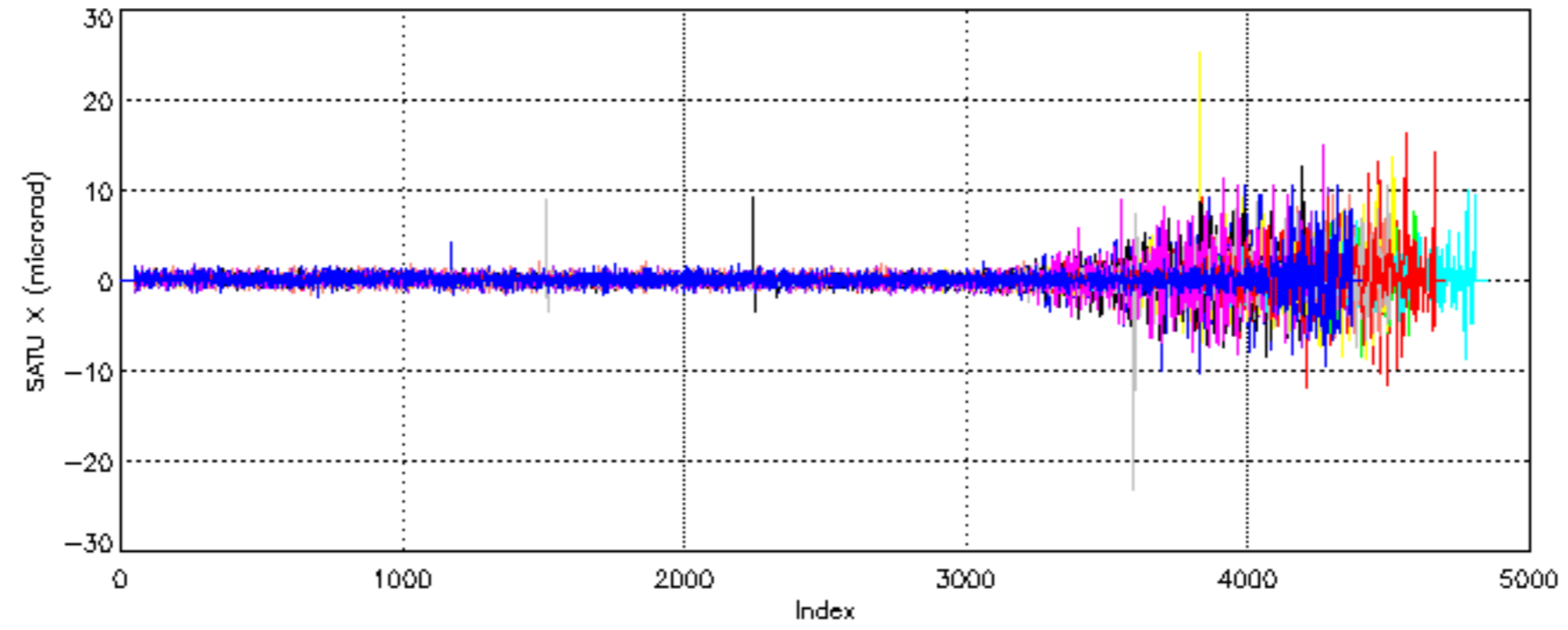


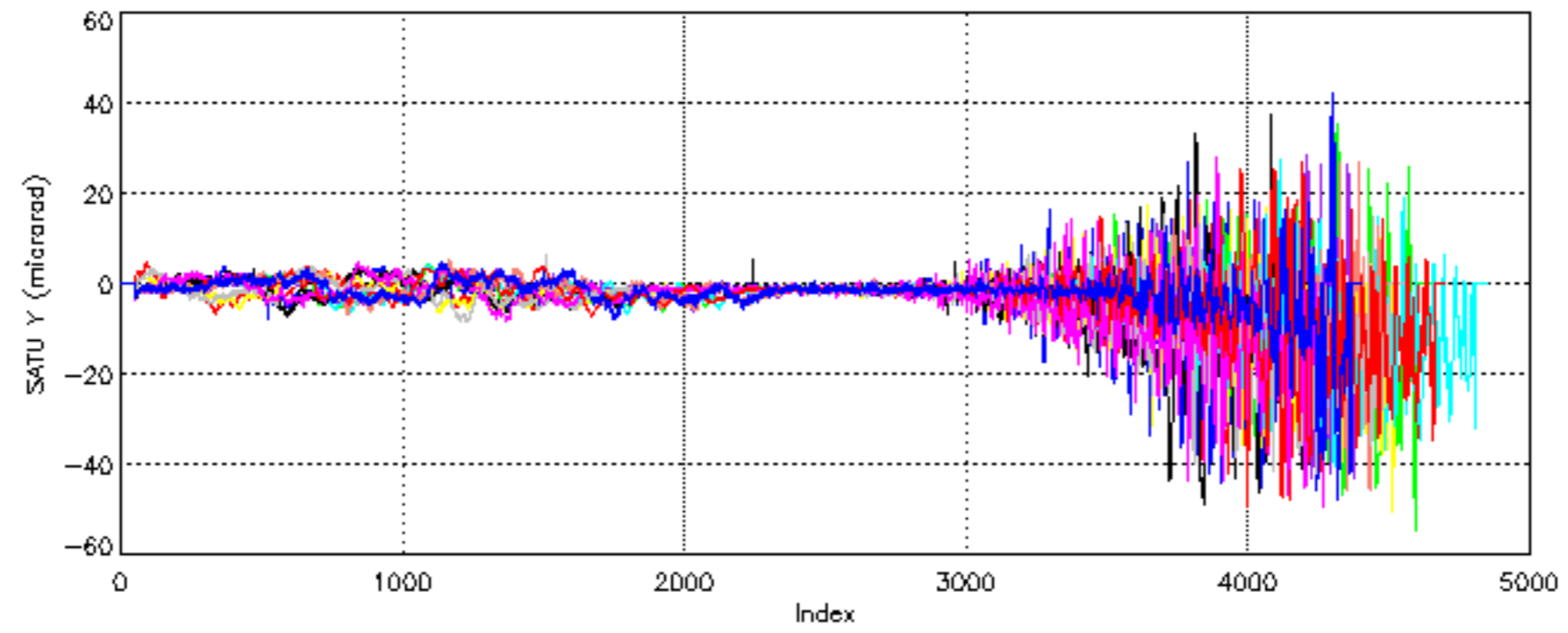
Tangent altitude at which the star is lost

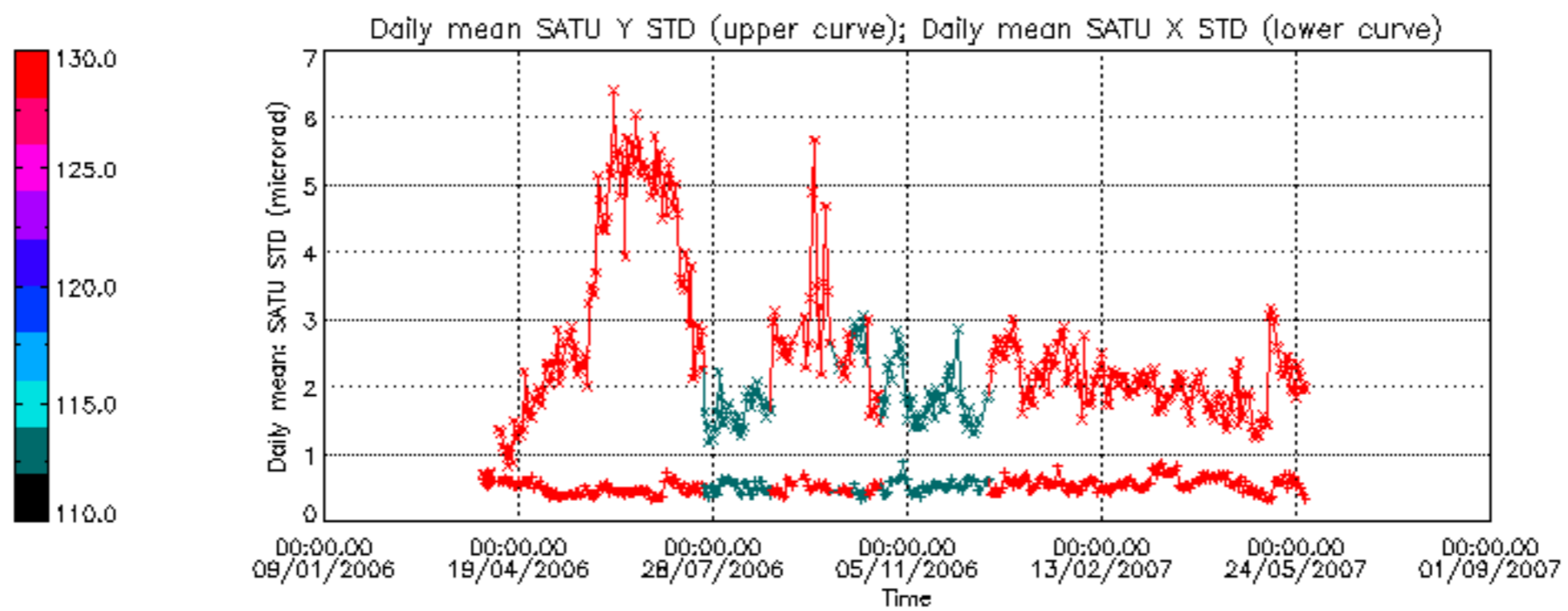


Tangent altitude at which the star is lost









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 12; 1902.6; 03-MAY-2007 22:57:09; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27052
 13; 2098.6; 03-MAY-2007 23:00:25; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27052
 14; 2560.0; 03-MAY-2007 23:08:06; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27052
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 17; 3004.9; 03-MAY-2007 23:15:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27052
 18; 3445.0; 03-MAY-2007 23:22:51; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27052
 19; 3923.4; 03-MAY-2007 23:30:50; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;27052
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 3; -126.7; 04-MAY-2007 00:03:56; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27052
 4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
 5; 590.3; 04-MAY-2007 00:15:53; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27053
 6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
 7; 842.2; 04-MAY-2007 00:20:04; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;27053
 8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

9; 1141.4; 04-MAY-2007 00:25:04; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27053
 10; 1264.5; 04-MAY-2007 00:27:07; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27053
 11; 1519.0; 04-MAY-2007 00:31:21; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27053
 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
 14; 2098.7; 04-MAY-2007 00:41:01; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27053
 15; 2559.9; 04-MAY-2007 00:48:42; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27053
 16; 2839.2; 04-MAY-2007 00:53:21; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;27053
 17; 2928.2; 04-MAY-2007 00:54:50; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27053
 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
 20; 3923.5; 04-MAY-2007 01:11:26; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;27053
 21; 4003.6; 04-MAY-2007 01:12:46; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27053

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 4; -305.2; 03-MAY-2007 07:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27042
 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
 10; 1046.3; 03-MAY-2007 07:37:29; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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Problem occurred when reading packet number 377!

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 4; -305.2; 03-MAY-2007 07:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27042
 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
 10; 1046.3; 03-MAY-2007 07:37:29; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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 3; 2097.9; 03-MAY-2007 07:55:01; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27043
 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
 7; 3002.6; 03-MAY-2007 08:10:06; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27043
 8; 3445.1; 03-MAY-2007 08:17:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27043
 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
 10; 4003.0; 03-MAY-2007 08:26:46; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27043
 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
 12; 5731.0; 03-MAY-2007 08:55:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27043
 13; 5904.1; 03-MAY-2007 08:58:27; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27043
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 15; 6623.1; 03-MAY-2007 09:10:26; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;27043
 16; 6755.1; 03-MAY-2007 09:12:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 17; 6876.0; 03-MAY-2007 09:14:39; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;27043
 18; 7082.5; 03-MAY-2007 09:18:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 19; 7174.8; 03-MAY-2007 09:19:38; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 20; 7298.5; 03-MAY-2007 09:21:42; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27043
 21; 7553.5; 03-MAY-2007 09:25:57; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27043
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4; 2559.9; 03-MAY-2007 09:43:19; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27044
5; 2837.6; 03-MAY-2007 09:47:57; Bright; 42.0; 87; 64Gam UMa ; 2.43; 11000;occ; 84; 0;27044
6; 2925.3; 03-MAY-2007 09:49:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27044
7; 3002.8; 03-MAY-2007 09:50:42; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;27044
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9; 3922.3; 03-MAY-2007 10:06:01; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;27044
10; 4002.9; 03-MAY-2007 10:07:22; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27044
11; 5556.9; 03-MAY-2007 10:33:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;27044
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15; 6623.6; 03-MAY-2007 10:51:03; Dark ; 45.5; 43; Alp TrA ; 1.91; 4250;occ; 91; 0;27044
16; 6755.3; 03-MAY-2007 10:53:14; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27044
17; 6876.1; 03-MAY-2007 10:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27044
18; 7082.8; 03-MAY-2007 10:58:42; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;27044
19; 7175.0; 03-MAY-2007 11:00:14; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27044
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3; 2098.0; 03-MAY-2007 11:16:13; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;27045
4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
5; 2837.8; 03-MAY-2007 11:28:33; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27045
6; 2925.6; 03-MAY-2007 11:30:00; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;27045
7; 3003.0; 03-MAY-2007 11:31:18; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27045
8; 3445.0; 03-MAY-2007 11:38:40; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27045
9; 3922.4; 03-MAY-2007 11:46:37; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27045
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5; 20.6; 03-MAY-2007 12:22:11; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27046
6; 588.0; 03-MAY-2007 12:31:39; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27046
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2; 840.5; 03-MAY-2007 12:35:51; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;27046
3; 1047.2; 03-MAY-2007 12:39:18; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;27046
4; 1139.4; 03-MAY-2007 12:40:50; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;27046
5; 1263.1; 03-MAY-2007 12:42:54; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27046
6; 1518.0; 03-MAY-2007 12:47:09; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27046
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3; 1901.7; 03-MAY-2007 12:53:32; Bright; 10.5; 121; 29Gam Vir ; 2.74; 7200;occ; 21; 0;27046
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2; 2837.9; 03-MAY-2007 13:09:09; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;27046
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4; 3003.4; 03-MAY-2007 13:11:54; Bright; 26.5; 36; 50Alp UMa ; 1.80; 6300;occ; 53; 0;27046
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3; -472.6; 04-MAY-2007 06:40:34; Dark ; 34.0; 18; 24Alp PsA ; 1.17; 9700;occ; 68; 0;27056

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2; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
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2; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
3; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
4; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
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3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
4; 2560.1; 04-MAY-2007 07:31:06; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27057
5; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
6; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
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13; 5912.4; 04-MAY-2007 08:26:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;27057
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15; 6628.2; 04-MAY-2007 08:38:54; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;27057
16; 6760.0; 04-MAY-2007 08:41:06; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
17; 6879.5; 04-MAY-2007 08:43:06; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;27057
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21; 7555.8; 04-MAY-2007 08:54:22; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27057
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3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
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5; -471.9; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
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13; 5741.6; 21-MAY-2007 09:30:15; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;27301
14; 5832.2; 21-MAY-2007 09:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27301
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16; 6413.4; 21-MAY-2007 09:41:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27301
17; 6829.4; 21-MAY-2007 09:48:23; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27301
18; 6991.9; 21-MAY-2007 09:51:05; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27301
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22; 7661.8; 21-MAY-2007 10:02:15; Bright; 36.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 73; 0;27301
23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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3; 2235.7; 21-MAY-2007 10:12:25; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;27302
4; 2373.1; 21-MAY-2007 10:14:42; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27302
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6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
9; 3937.9; 21-MAY-2007 10:40:47; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27302
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11; 4526.8; 21-MAY-2007 10:50:36; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;27302
12; 4787.2; 21-MAY-2007 10:54:57; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27302
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14; 5742.5; 21-MAY-2007 11:10:52; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;27302
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23; 7555.1; 21-MAY-2007 11:41:05; Bright; 41.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 83; 0;27302
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7; 3175.5; 21-MAY-2007 12:08:41; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;27303
8; 3446.5; 21-MAY-2007 12:13:12; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27303
9; 3937.8; 21-MAY-2007 12:21:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27303
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11; 4527.0; 21-MAY-2007 12:31:12; Dark ; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;27303
12; 4787.5; 21-MAY-2007 12:35:33; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27303
13; 5313.9; 21-MAY-2007 12:44:19; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;27303
14; 5743.5; 21-MAY-2007 12:51:29; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;27303
15; 5833.2; 21-MAY-2007 12:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27303
16; 5990.5; 21-MAY-2007 12:55:36; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;27303
17; 6087.5; 21-MAY-2007 12:57:13; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27303
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21; 7232.1; 21-MAY-2007 13:16:17; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27303
22; 7407.9; 21-MAY-2007 13:19:13; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27303
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4; 1732.1; 21-MAY-2007 16:46:25; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27306
5; 2030.3; 21-MAY-2007 16:51:23; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27306
6; 2236.0; 21-MAY-2007 16:54:49; Bright; 34.5; 3; 16Alp Boo ;-0.05; 4250;occ; 69; 0;27306
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9; 3059.1; 21-MAY-2007 17:08:32; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27306
10; 3175.3; 21-MAY-2007 17:10:28; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27306
11; 3446.5; 21-MAY-2007 17:15:00; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;27306
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16; 5315.3; 21-MAY-2007 17:46:08; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27306
17; 5746.4; 21-MAY-2007 17:53:19; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;27306
18; 5834.9; 21-MAY-2007 17:54:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27306
19; 5992.8; 21-MAY-2007 17:57:26; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;27306
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21; 6417.0; 21-MAY-2007 18:04:30; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27306
22; 6831.8; 21-MAY-2007 18:11:25; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27306
23; 6994.9; 21-MAY-2007 18:14:08; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27306

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3; 2030.7; 21-MAY-2007 13:30:12; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;27304
4; 2235.8; 21-MAY-2007 13:33:37; Bright; 34.5; 3; 16Alp Boo ;-0.05; 4250;occ; 69; 0;27304
5; 2373.0; 21-MAY-2007 13:35:54; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27304
6; 2562.2; 21-MAY-2007 13:39:03; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27304
7; 3059.8; 21-MAY-2007 13:47:21; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27304
8; 3175.5; 21-MAY-2007 13:49:17; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27304
9; 3446.5; 21-MAY-2007 13:53:48; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27304
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16; 5833.7; 21-MAY-2007 14:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27304
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19; 6415.5; 21-MAY-2007 14:43:17; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27304
20; 6830.8; 21-MAY-2007 14:50:12; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;27304
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22; 7232.7; 21-MAY-2007 14:56:54; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27304
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4; 1732.0; 21-MAY-2007 15:05:49; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27305
5; 2030.5; 21-MAY-2007 15:10:48; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;27305
6; 2236.0; 21-MAY-2007 15:14:13; Bright; 35.0; 3; 16Alp Boo ;-0.05; 4250;occ; 70; 0;27305
7; 2372.9; 21-MAY-2007 15:16:30; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;27305
8; 2562.1; 21-MAY-2007 15:19:39; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27305
9; 3059.4; 21-MAY-2007 15:27:56; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27305
10; 3175.4; 21-MAY-2007 15:29:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27305
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16; 5314.9; 21-MAY-2007 16:05:32; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27305
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20; 6089.4; 21-MAY-2007 16:18:26; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27305
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23; 6417.6; 21-MAY-2007 19:45:07; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27307
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 7; 3446.5; 22-MAY-2007 10:00:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27316
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 16; 6423.9; 22-MAY-2007 10:50:36; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27316
 17; 6836.4; 22-MAY-2007 10:57:29; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27316
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7; 3053.9; 22-MAY-2007 14:56:14; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27319
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8; 2371.5; 22-MAY-2007 18:06:04; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27321
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11; 3174.0; 22-MAY-2007 18:19:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27321
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16; 4793.8; 22-MAY-2007 18:46:26; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27321
17; 5321.4; 22-MAY-2007 18:55:14; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27321
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7; 2027.6; 22-MAY-2007 19:40:56; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27322
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10; 4009.5; 23-MAY-2007 11:19:21; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27331
11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331
12; 4797.2; 23-MAY-2007 11:32:29; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27331
13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
15; 6010.8; 23-MAY-2007 11:52:42; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27331
16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	119;	0;	27332

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2;	1630.4;	23-MAY-2007	14:00:54;	Bright;	35.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	71;	0;	27333	
3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27333	
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	;	2.73;	4700;occ;	116;	0;	27333	
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	27333	
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	27333	
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	;	2.30;	30000;occ;	82;	0;	27333	
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	27333	
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	90;	0;	27333	
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27333	
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	85;	0;	27333	
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27333	
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	27333	
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;	27333	
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27333	
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	27333	
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	27333	
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	;	115;	34Ups Sco	;	2.70;	26000;occ;	52;	0;	27333	
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	98;	0;	27333	
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3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	69;	0;	27334	
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	;	2.61;	13100;occ;	73;	0;	27334	
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27334	
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27334	
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27334	
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27334	
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	27334	
10;	3446.7;	23-MAY-2007	16:11:46;	Bright;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27334	
11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	;	2.30;	30000;occ;	74;	0;	27334	
12;	4009.8;	23-MAY-2007	16:21:09;	Bright;	55.0;	68;	18Alp Cas	;	2.22;	4500;occ;	110;	0;	27334	
13;	4532.4;	23-MAY-2007	16:29:52;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	91;	0;	27334	
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27334	
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	86;	0;	27334	
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27334	
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	99;	0;	27334	
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	27334	
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27334	
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	27334	
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	102;	0;	27334	

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3; 1380.4; 23-MAY-2007 17:17:56; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27335
4; 1524.5; 23-MAY-2007 17:20:20; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27335
5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
6; 1734.5; 23-MAY-2007 17:23:50; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27335
7; 2025.5; 23-MAY-2007 17:28:41; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27335
8; 2370.6; 23-MAY-2007 17:34:26; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27335
9; 2560.5; 23-MAY-2007 17:37:36; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27335
10; 3047.4; 23-MAY-2007 17:45:43; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27335
11; 3172.9; 23-MAY-2007 17:47:48; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27335
12; 3446.6; 23-MAY-2007 17:52:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27335
13; 3937.1; 23-MAY-2007 18:00:32; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27335
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16; 4799.0; 23-MAY-2007 18:14:54; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27335
17; 5327.4; 23-MAY-2007 18:23:43; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27335
18; 5850.2; 23-MAY-2007 18:32:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27335
19; 6013.9; 23-MAY-2007 18:35:09; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27335
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21; 6437.5; 23-MAY-2007 18:42:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27335
22; 6845.0; 23-MAY-2007 18:49:00; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27335
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3; 1208.7; 23-MAY-2007 18:55:40; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27336
4; 1380.6; 23-MAY-2007 18:58:32; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27336
5; 1524.7; 23-MAY-2007 19:00:56; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;27336
6; 1734.3; 23-MAY-2007 19:04:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27336
7; 2025.4; 23-MAY-2007 19:09:17; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;27336
8; 2370.6; 23-MAY-2007 19:15:02; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27336
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10; 3047.0; 23-MAY-2007 19:26:18; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;27336
11; 3172.8; 23-MAY-2007 19:28:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27336
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16; 4532.8; 23-MAY-2007 19:51:04; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;27336
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22; 6438.1; 23-MAY-2007 20:22:49; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27336
23; 6845.4; 23-MAY-2007 20:29:37; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27336
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9; 1089.7; 24-MAY-2007 01:36:05; Dark ; 38.0; 115; 34Ups Sco ; 2.70; 26000;occ; 76; 0;27340
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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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7;	1834.2;	31-MAY-2007	18:14:22;	Bright;	39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;27450	
8;	2015.3;	31-MAY-2007	18:17:23;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;27450	
9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
10;	3007.9;	31-MAY-2007	18:33:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;27450	
11;	3166.3;	31-MAY-2007	18:36:34;	Bright;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;27450	
12;	3446.8;	31-MAY-2007	18:41:14;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;27450	
13;	3930.1;	31-MAY-2007	18:49:18;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;27450	
14;	4393.3;	31-MAY-2007	18:57:01;	Bright;	44.5;	53;	43Bet And	;	2.05;	3300;occ;	89;	0;27450	
15;	5386.3;	31-MAY-2007	19:13:34;	Dark	;	46.5;	52;	16Bet Cet	;	2.04;	4500;occ;	93;	0;27450
16;	5647.2;	31-MAY-2007	19:17:55;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;27450
17;	5788.9;	31-MAY-2007	19:20:17;	Dark	;	47.5;	84;	Alp Phe	;	2.40;	4500;occ;	95;	0;27450
18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450