

GOMOS Daily Report 28-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	29MAY2007 05:36:49
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (28MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (29MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

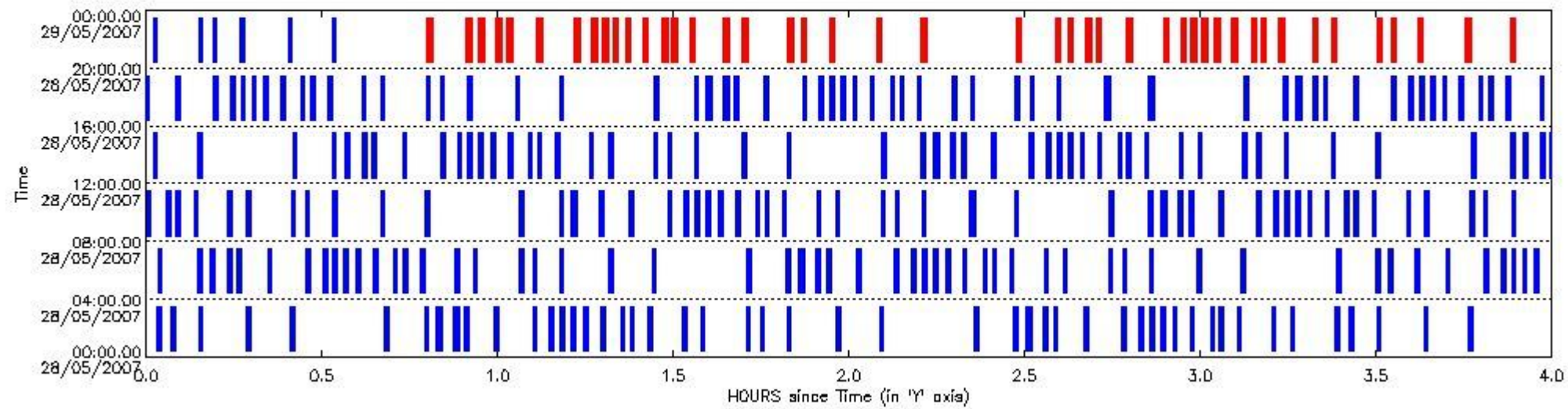
2.1 Level 0 products arrived in PCF (see template [here](#))

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
28-MAY-2007 20:47:53	16BetCet	52	27408
28-MAY-2007 20:54:38	AlpPhe	84	27408
28-MAY-2007 20:56:43	DSA1035	0	27408
28-MAY-2007 20:59:41	BetGru	63	27409
28-MAY-2007 21:01:29	AlpGru	31	27409
28-MAY-2007 21:06:39	AlpPav	45	27409
28-MAY-2007 21:13:06	BetAra	141	27409
28-MAY-2007 21:15:59	TheSco	40	27409
28-MAY-2007 21:17:48	35LamSco	25	27409
28-MAY-2007 21:19:41	26EpsSco	75	27409
28-MAY-2007 21:21:46	23TauSco	136	27409
28-MAY-2007 21:24:43	8Bet1Sco	97	27409
28-MAY-2007 21:28:08	27BetLib	104	27409
28-MAY-2007 21:29:42	1DelOph	120	27409
28-MAY-2007 21:32:44	24AlpSer	102	27409

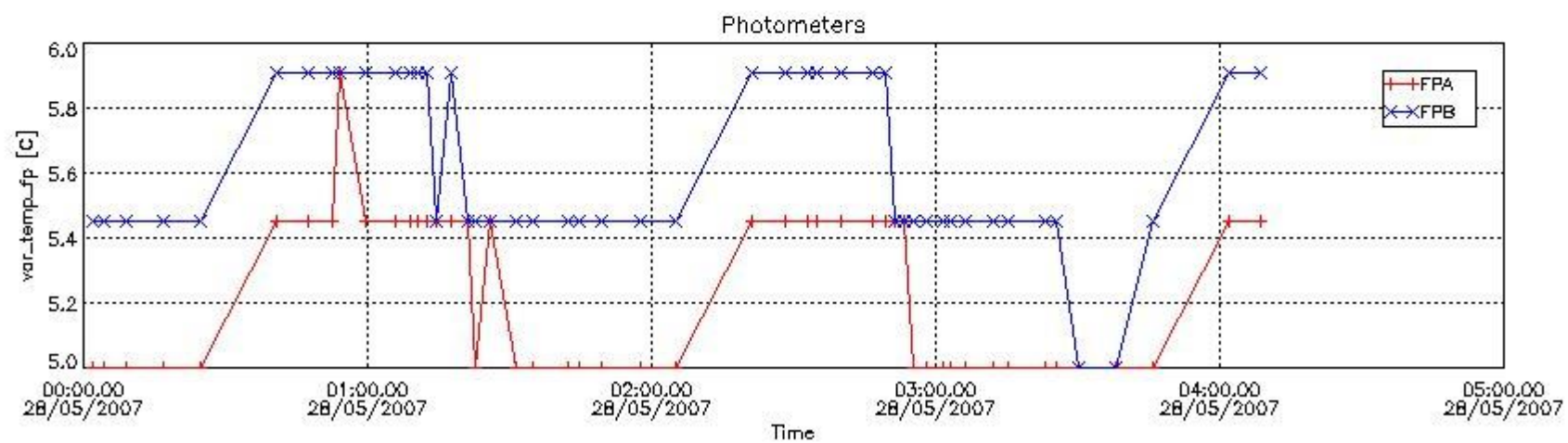
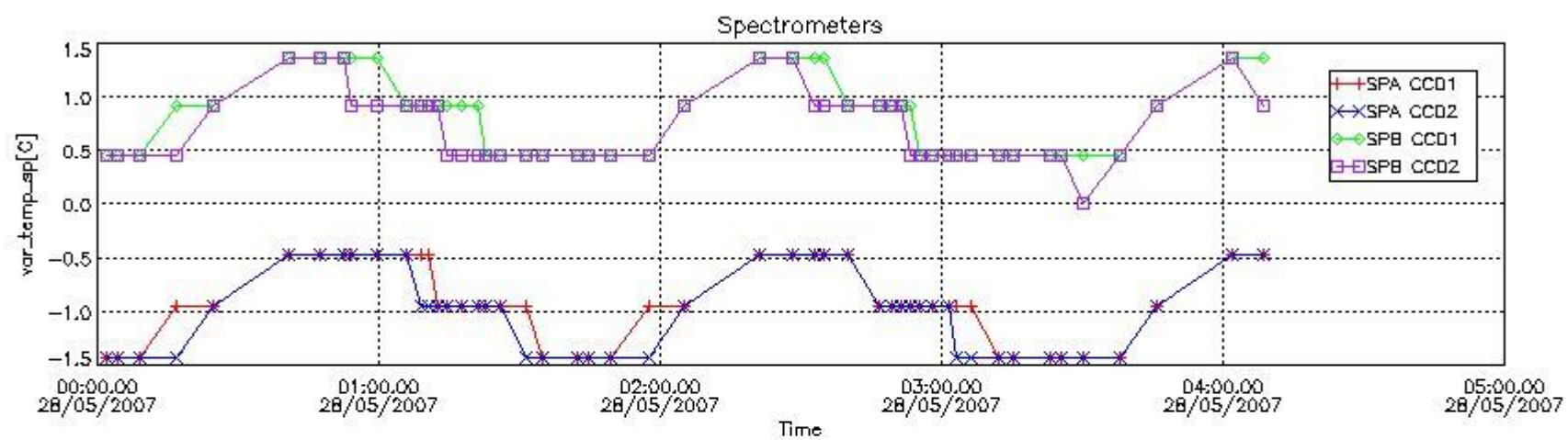
28-MAY-2007 21:38:36		83	27409
28-MAY-2007 21:41:46	27GamBoo	180	27409
28-MAY-2007 21:49:27	14EtaDra	119	27409
28-MAY-2007 21:51:54	7BetUMi	60	27409
28-MAY-2007 21:56:33	1AlpUMi	49	27409
28-MAY-2007 22:04:40	27GamCas	76	27409
28-MAY-2007 22:12:15	43BetAnd	53	27409
28-MAY-2007 22:28:30	16BetCet	52	27409
28-MAY-2007 22:35:14	AlpPhe	84	27409
28-MAY-2007 22:37:19	DSA1035	0	27409
28-MAY-2007 22:40:18	BetGru	63	27410
28-MAY-2007 22:42:06	AlpGru	31	27410
28-MAY-2007 22:47:16	AlpPav	45	27410
28-MAY-2007 22:53:43	BetAra	141	27410
28-MAY-2007 22:56:35	TheSco	40	27410
28-MAY-2007 22:58:25	35LamSco	25	27410
28-MAY-2007 23:00:17	26EpsSco	75	27410
28-MAY-2007 23:02:23	23TauSco	136	27410
28-MAY-2007 23:05:19	8Bet1Sco	97	27410
28-MAY-2007 23:08:44	27BetLib	104	27410
28-MAY-2007 23:10:18	1DelOph	120	27410
28-MAY-2007 23:13:20	24AlpSer	102	27410
28-MAY-2007 23:19:12		83	27410
28-MAY-2007 23:22:22	27GamBoo	180	27410
28-MAY-2007 23:30:03	14EtaDra	119	27410
28-MAY-2007 23:32:30	7BetUMi	60	27410
28-MAY-2007 23:37:09	1AlpUMi	49	27410
28-MAY-2007 23:45:16	27GamCas	76	27410
28-MAY-2007 23:52:52	43BetAnd	53	27410

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_1PNPDE20070528_000152_000000442058_00288_27396_2747.N1	28-MAY-2007 00:01:52	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	27396	No
2	GOM_TRA_1PNPDE20070528_000416_000000382058_00288_27396_2748.N1	28-MAY-2007 00:04:16	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	27396	No
3	GOM_TRA_1PNPDE20070528_000854_000000362058_00288_27396_2749.N1	28-MAY-2007 00:08:54	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27396	No
4	GOM_TRA_1PNPDE20070528_001701_000000552058_00288_27396_2750.N1	28-MAY-2007 00:17:01	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27396	No
5	GOM_TRA_1PNPDE20070528_002435_000000382058_00288_27396_2751.N1	28-MAY-2007 00:24:35	Bright	38.000	53	43Bet And	2.0480	3300.0	76	27396	No
6	GOM_TRA_1PNPDE20070528_004044_000000462058_00288_27396_2899.N1	28-MAY-2007 00:40:44	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	27396	No
7	GOM_TRA_1PNPDE20070528_004729_000000442058_00288_27396_2900.N1	28-MAY-2007 00:47:29	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27396	No
8	GOM_TRA_1PNPDE20070528_005228_000000602058_00289_27397_2901.N1	28-MAY-2007 00:52:28	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	27397	No
9	GOM_TRA_1PNPDE20070528_005415_000000452058_00289_27397_2902.N1	28-MAY-2007 00:54:15	Dark	45.000	31	Alp Gru	1.7340	15200.	90	27397	No
10	GOM_TRA_1PNPDE20070528_005927_000000412058_00289_27397_2903.N1	28-MAY-2007 00:59:27	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27397	No
11	GOM_TRA_1PNPDE20070528_010558_000000412058_00289_27397_2904.N1	28-MAY-2007 01:05:58	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27397	No
12	GOM_TRA_1PNPDE20070528_010850_000000502058_00289_27397_2905.N1	28-MAY-2007 01:08:50	Straylight	50.000	40	The Sco	1.8590	7100.0	100	27397	No
13	GOM_TRA_1PNPDE20070528_011039_000000482058_00289_27397_2906.N1	28-MAY-2007 01:10:39	Straylight	48.000	25	35Lam Sco	1.6200	28000.	96	27397	No
14	GOM_TRA_1PNPDE20070528_011234_000000502058_00289_27397_2907.N1	28-MAY-2007 01:12:34	Twilight_stray	50.000	75	26Eps Sco	2.2910	4250.0	100	27397	No
15	GOM_TRA_1PNPDE20070528_011440_000000432058_00289_27397_2908.N1	28-MAY-2007 01:14:40	Twilight_stray	42.500	136	23Tau Sco	2.8220	30000.	85	27397	No
16	GOM_TRA_1PNPDE20070528_011737_000000402058_00289_27397_2909.N1	28-MAY-2007 01:17:37	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	27397	No
17	GOM_TRA_1PNPDE20070528_012103_000000372058_00289_27397_2910.N1	28-MAY-2007 01:21:03	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	27397	No
18	GOM_TRA_1PNPDE20070528_012239_000000412058_00289_27397_2911.N1	28-MAY-2007 01:22:39	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	27397	No
19	GOM_TRA_1PNPDE20070528_012542_000000382058_00289_27397_2912.N1	28-MAY-2007 01:25:42	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	27397	No
20	GOM_TRA_1PNPDE20070528_013132_000000512058_00289_27397_2913.N1	28-MAY-2007 01:31:32	Bright	51.000	83		2.3780	11000.	102	27397	No
21	GOM_TRA_1PNPDE20070528_013443_000000352058_00289_27397_2914.N1	28-MAY-2007 01:34:43	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	27397	No
22	GOM_TRA_1PNPDE20070528_014228_000000372058_00289_27397_2915.N1	28-MAY-2007 01:42:28	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27397	No
23	GOM_TRA_1PNPDE20070528_014452_000000352058_00289_27397_2916.N1	28-MAY-2007 01:44:52	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	27397	No
24	GOM_TRA_1PNPDE20070528_014930_000000332058_00289_27397_2917.N1	28-MAY-2007 01:49:30	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27397	No
25	GOM_TRA_1PNPDE20070528_015738_000000552058_00289_27397_2918.N1	28-MAY-2007 01:57:38	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27397	No

26	GOM_TRA_1PNPDE20070528_020511_000000402058_00289_27397_2919.N1	28-MAY-2007 02:05:11	Bright	39.500	53	43Bet And	2.0480	3300.0	79	27397	No
27	GOM_TRA_1PNPDE20070528_022120_000000442058_00289_27397_3044.N1	28-MAY-2007 02:21:20	Dark	44.000	52	16Bet Cet	2.0370	4500.0	88	27397	No
28	GOM_TRA_1PNPDE20070528_022805_000000442058_00289_27397_3045.N1	28-MAY-2007 02:28:05	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	27397	No
29	GOM_TRA_1PNPDE20070528_023305_000000462058_00290_27398_3046.N1	28-MAY-2007 02:33:05	Dark	45.500	63	Bet Gru	2.1500	2800.0	91	27398	No
30	GOM_TRA_1PNPDE20070528_023452_000000442058_00290_27398_3047.N1	28-MAY-2007 02:34:52	Dark	44.000	31	Alp Gru	1.7340	15200.	88	27398	No
31	GOM_TRA_1PNPDE20070528_024004_000000422058_00290_27398_3048.N1	28-MAY-2007 02:40:04	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27398	No
32	GOM_TRA_1PNPDE20070528_024635_000000432058_00290_27398_3049.N1	28-MAY-2007 02:46:35	Straylight	42.500	141	Bet Ara	2.8400	4600.0	85	27398	No
33	GOM_TRA_1PNPDE20070528_024926_000000472058_00290_27398_3050.N1	28-MAY-2007 02:49:26	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27398	No
34	GOM_TRA_1PNPDE20070528_025116_000000492058_00290_27398_3051.N1	28-MAY-2007 02:51:16	Twilight	49.000	25	35Lam Sco	1.6200	28000.	98	27398	No
35	GOM_TRA_1PNPDE20070528_025310_000000472058_00290_27398_3052.N1	28-MAY-2007 02:53:10	Twilight	47.000	75	26Eps Sco	2.2910	4250.0	94	27398	No
36	GOM_TRA_1PNPDE20070528_025516_000000412058_00290_27398_3053.N1	28-MAY-2007 02:55:16	Twilight	40.500	136	23Tau Sco	2.8220	30000.	81	27398	No
37	GOM_TRA_1PNPDE20070528_025814_000000402058_00290_27398_3054.N1	28-MAY-2007 02:58:14	Bright	40.000	97	8Bet1Sco	2.5610	30000.	80	27398	No
38	GOM_TRA_1PNPDE20070528_030139_000000372058_00290_27398_3055.N1	28-MAY-2007 03:01:39	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	27398	No
39	GOM_TRA_1PNPDE20070528_030315_000000412058_00290_27398_3056.N1	28-MAY-2007 03:03:15	Bright	41.000	120	1Del Oph	2.7340	3200.0	82	27398	No
40	GOM_TRA_1PNPDE20070528_030617_000000382058_00290_27398_3057.N1	28-MAY-2007 03:06:17	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	27398	No
41	GOM_TRA_1PNPDE20070528_031208_000000352058_00290_27398_3058.N1	28-MAY-2007 03:12:08	Bright	34.500	83		2.3780	11000.	69	27398	No
42	GOM_TRA_1PNPDE20070528_031519_000000352058_00290_27398_3059.N1	28-MAY-2007 03:15:19	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	27398	No
43	GOM_TRA_1PNPDE20070528_032304_000000382058_00290_27398_3060.N1	28-MAY-2007 03:23:04	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	27398	No
44	GOM_TRA_1PNPDE20070528_032528_000000352058_00290_27398_3061.N1	28-MAY-2007 03:25:28	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	27398	No
45	GOM_TRA_1PNPDE20070528_033006_000000332058_00290_27398_3062.N1	28-MAY-2007 03:30:06	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27398	No
46	GOM_TRA_1PNPDE20070528_033813_000000352058_00290_27398_3265.N1	28-MAY-2007 03:38:13	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	27398	No
47	GOM_TRA_1PNPDE20070528_034547_000000392058_00290_27398_3266.N1	28-MAY-2007 03:45:47	Bright	39.000	53	43Bet And	2.0480	3300.0	78	27398	No
48	GOM_TRA_1PNPDE20070528_040156_000000452058_00290_27398_3267.N1	28-MAY-2007 04:01:56	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	27398	No
49	GOM_TRA_1PNPDE20070528_040841_000000512058_00290_27398_3268.N1	28-MAY-2007 04:08:41	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	27398	No

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



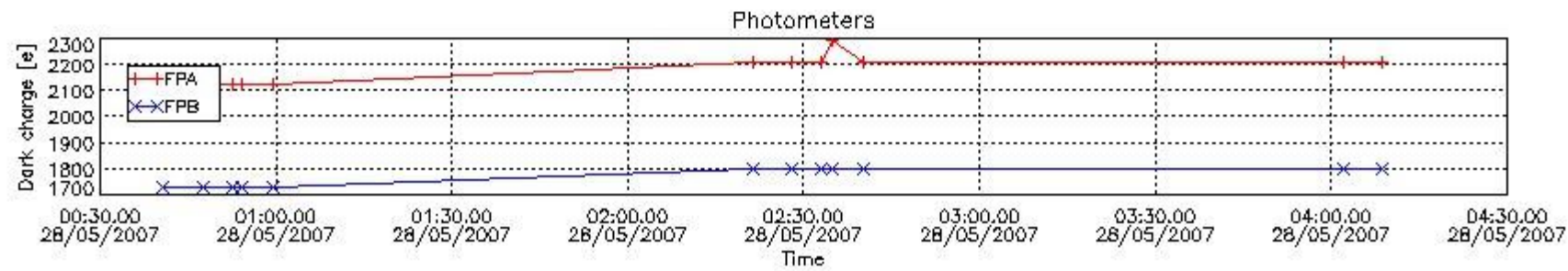
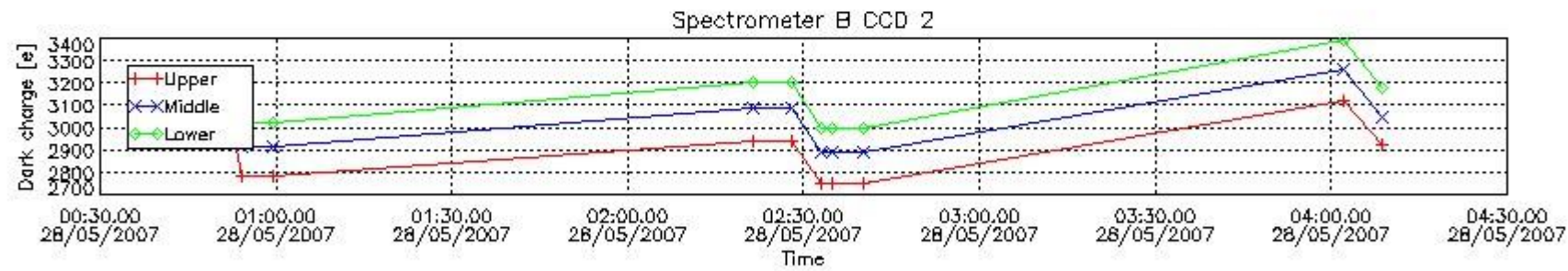
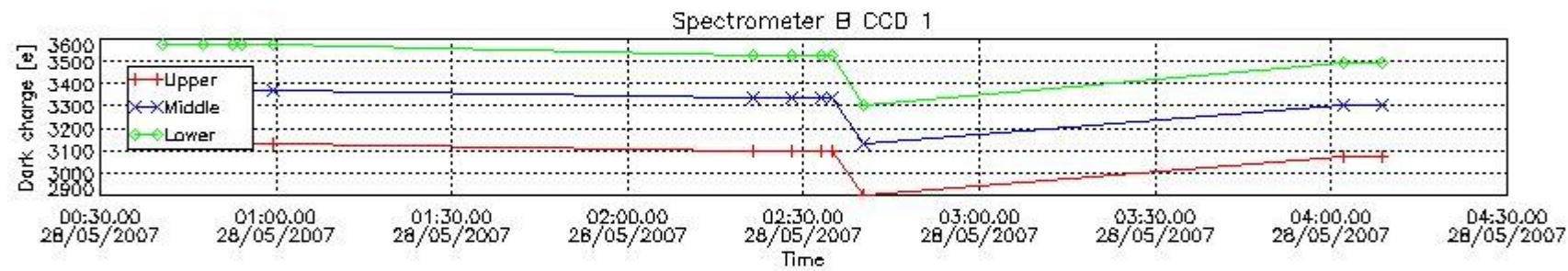
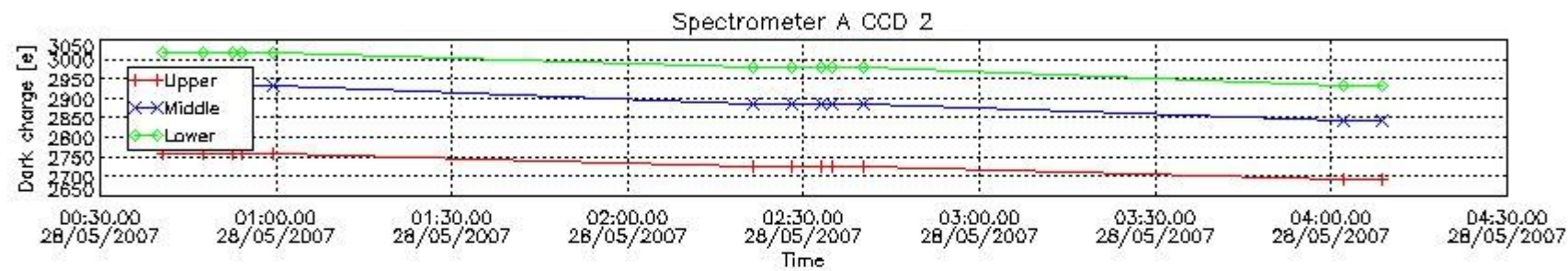
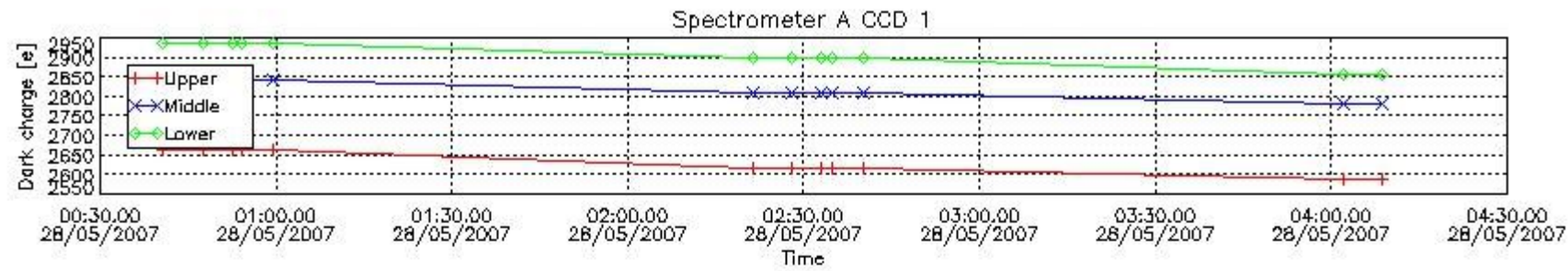
4. Overview of dark signal processing per product

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



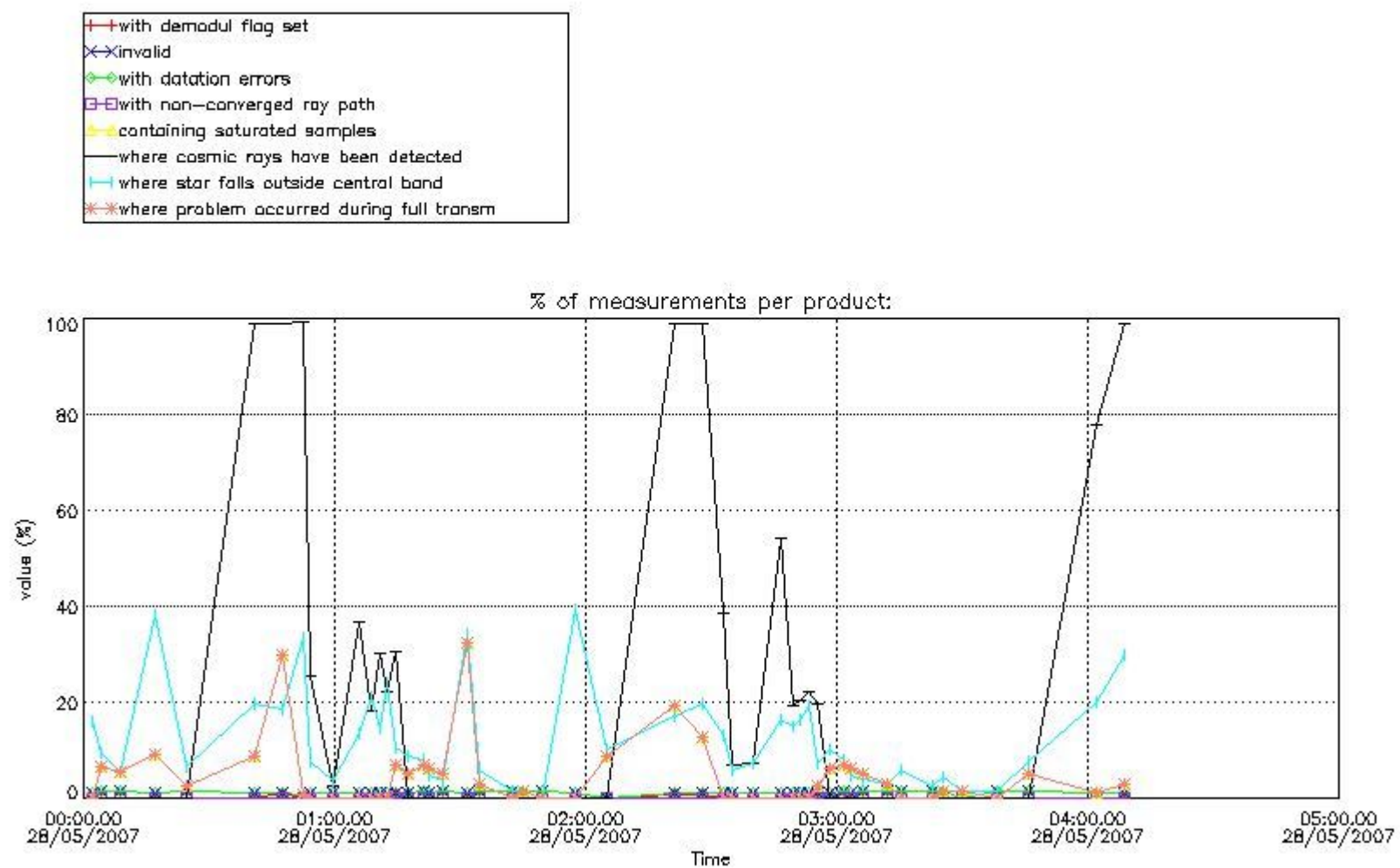
5. Demodulation flag and quality information monitoring

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.

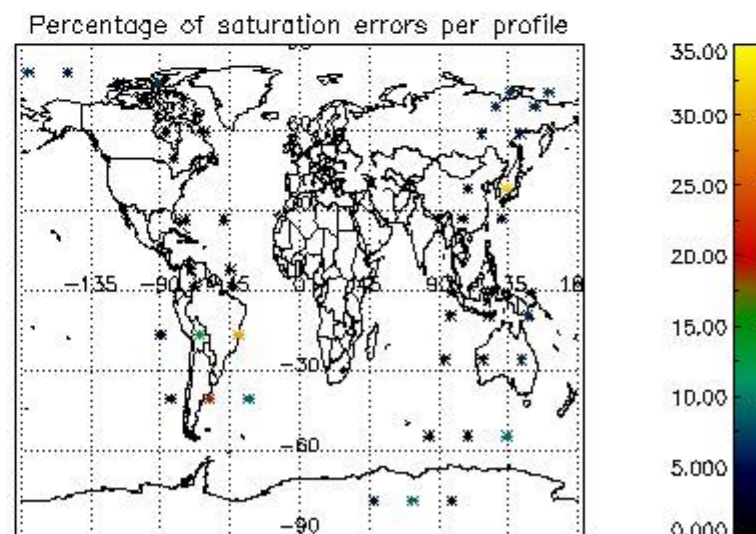
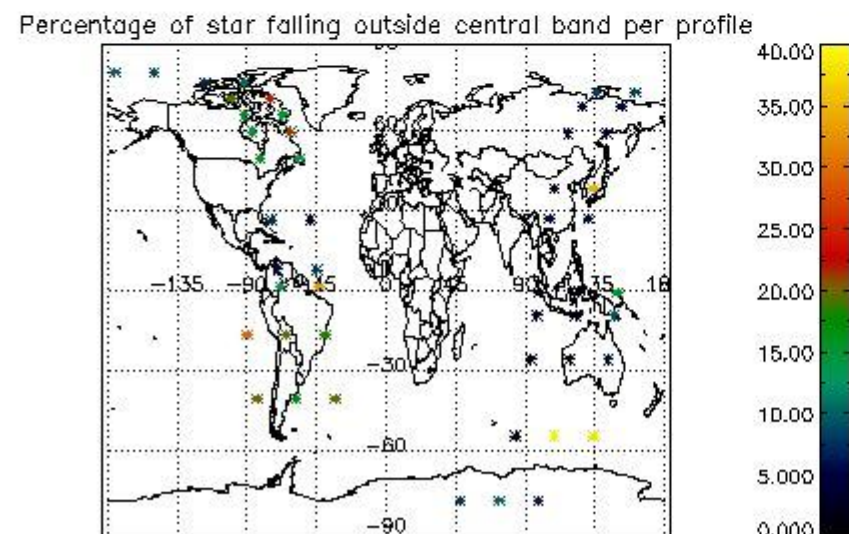
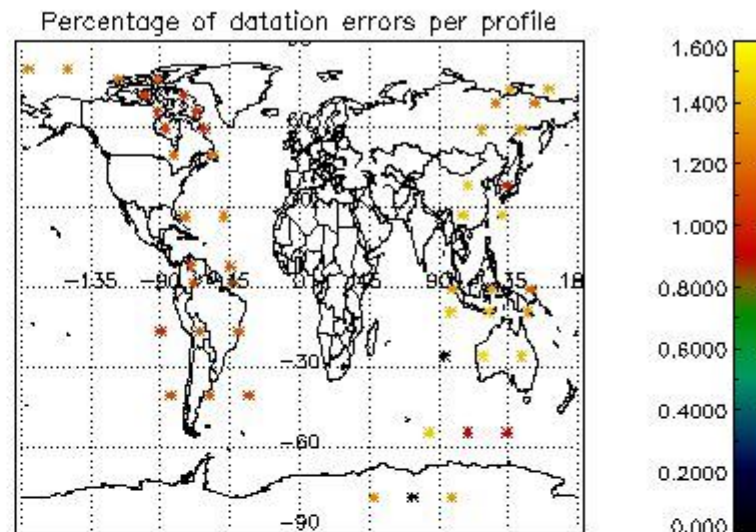
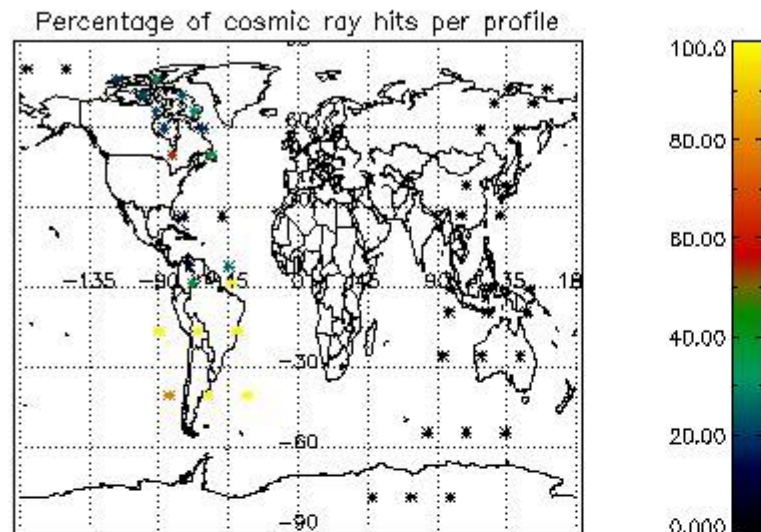
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



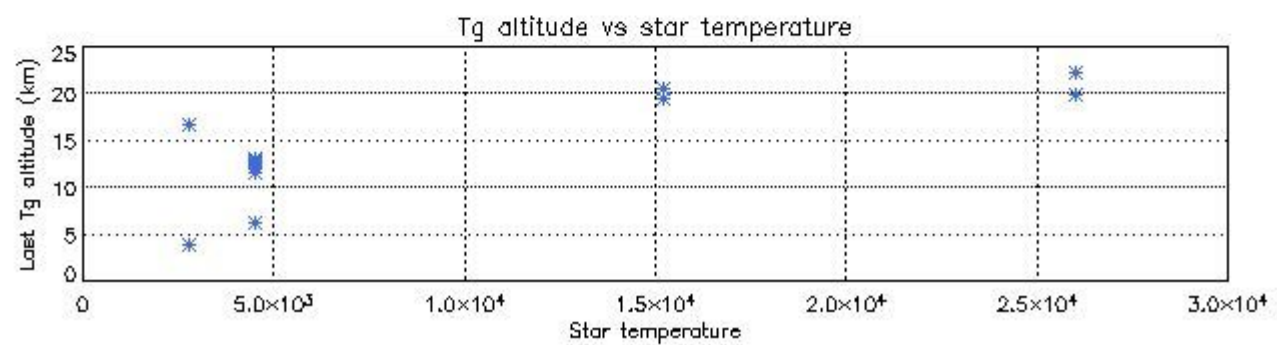
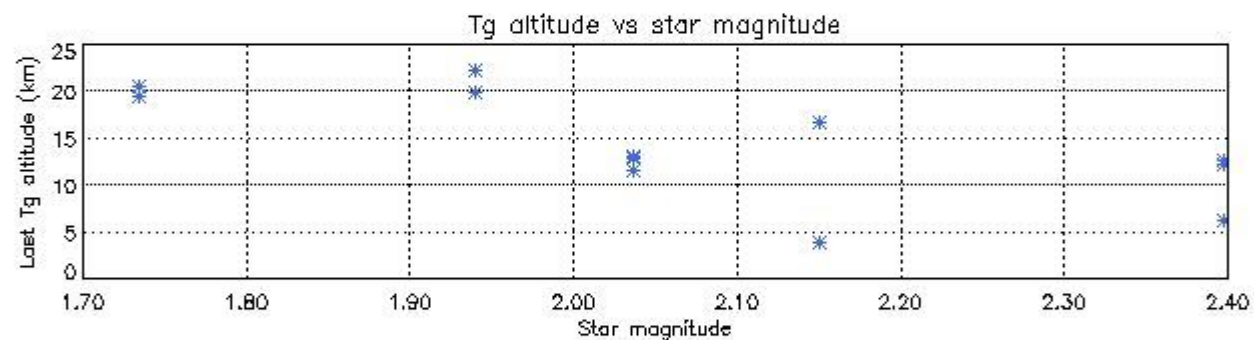
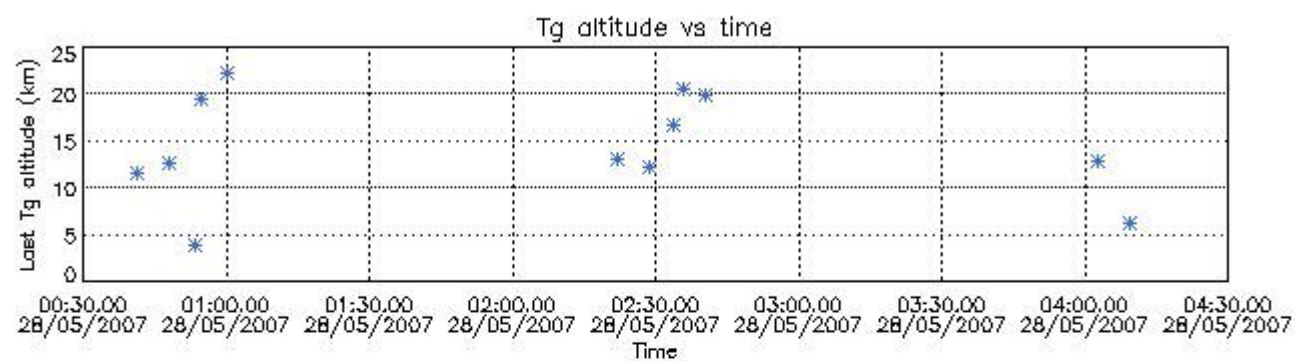
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.221	19.588	NaN
St. deviation:	5.6990	6.4885	NaN
Maximum:	22.265	28.694	NaN
Minimum:	3.7878	3.3492	NaN
Number of data:	12.000	27.000	NaN

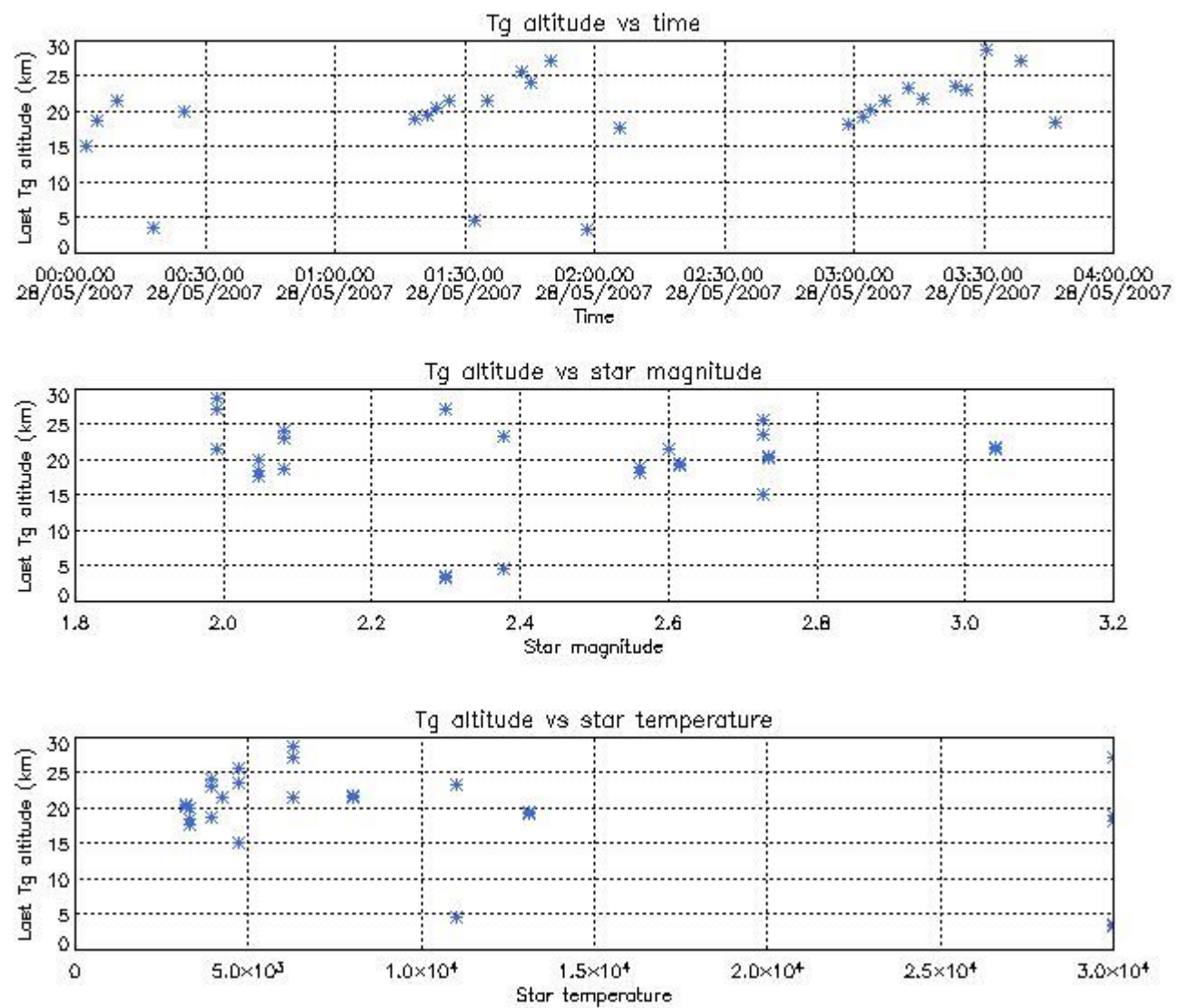
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

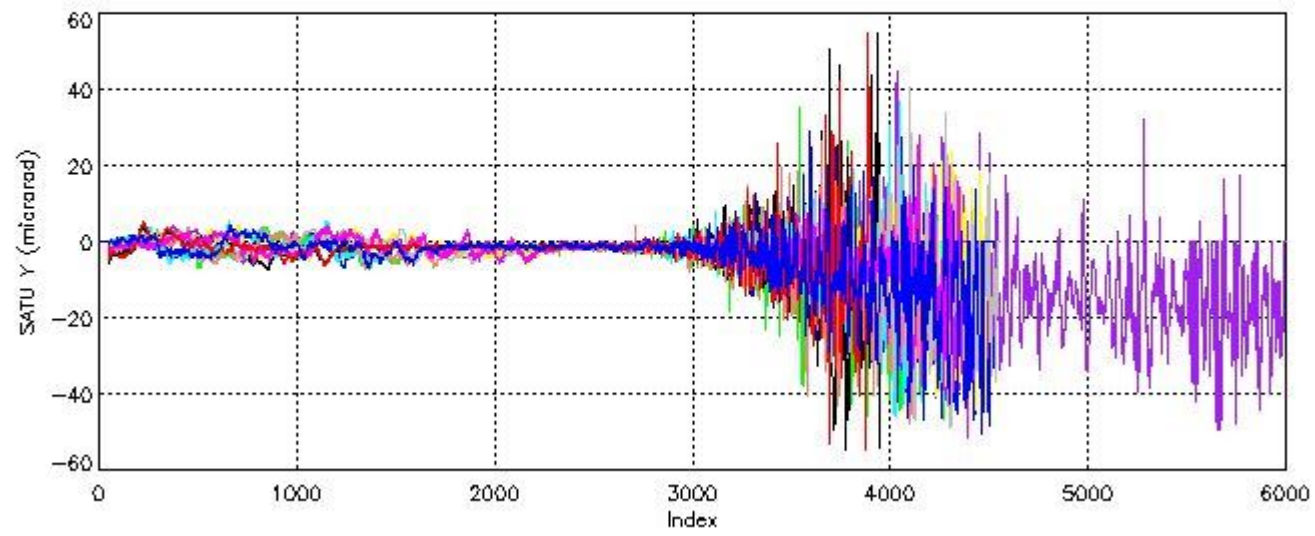
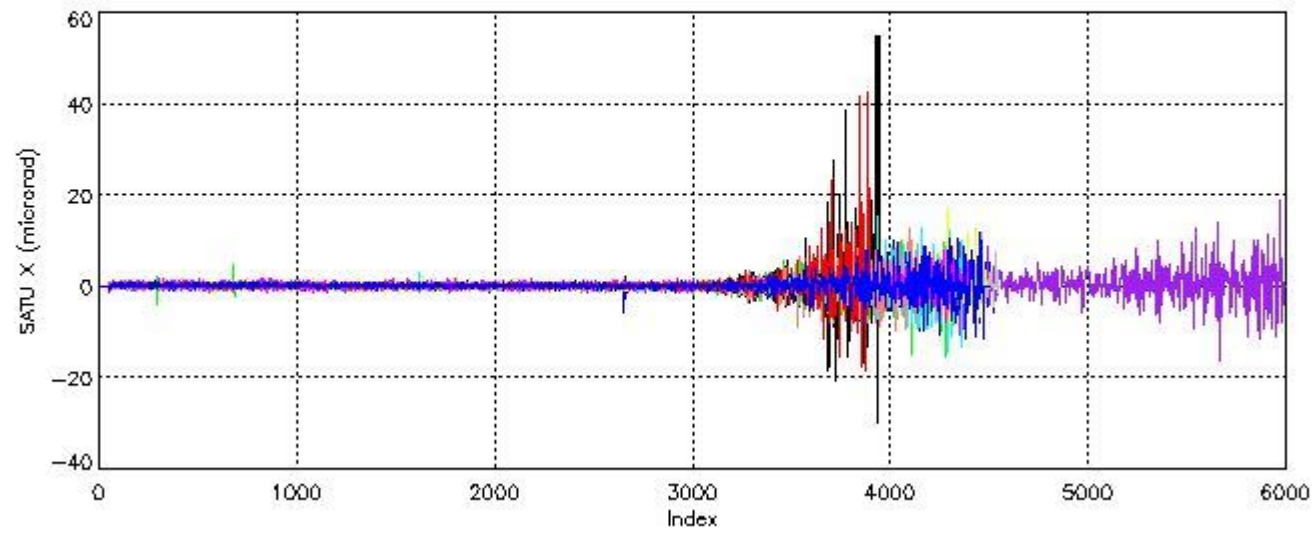


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10900	-0.88661	0.16937	-0.88061
St. deviation:	0.38057	1.9959	0.67590	2.2551
Maximum:	4.6000	5.0000	5.0000	6.8000
Minimum:	-4.1000	-7.1000	-6.4000	-8.1000

Number of data:	11900.	11900.	22800.	22800.
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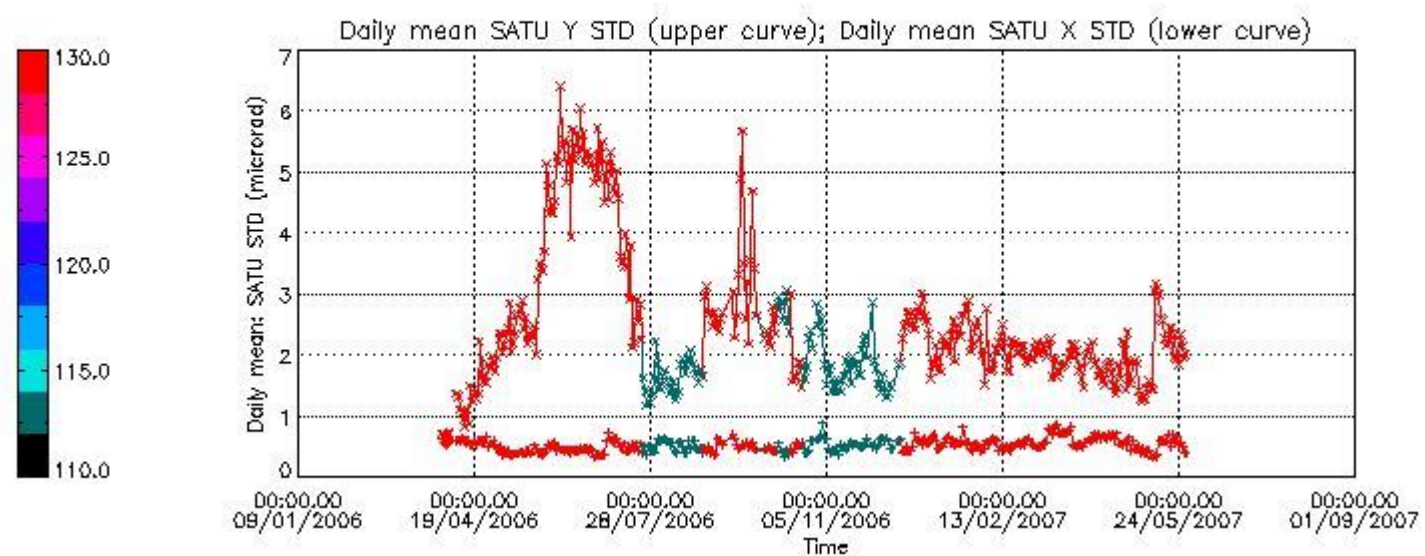
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

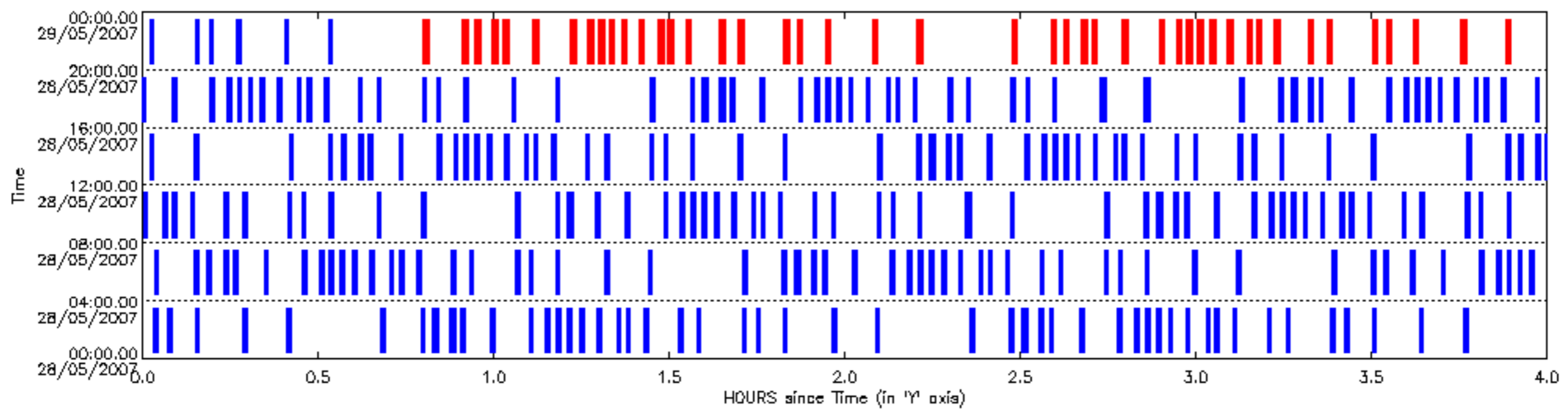
Lower curve: STD of SATU X axis

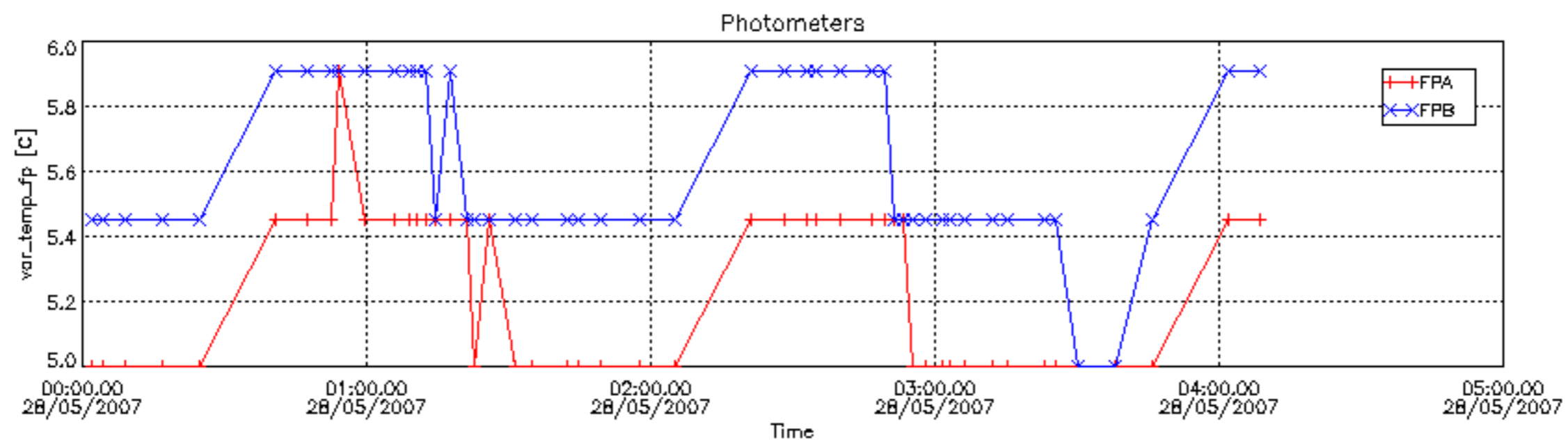
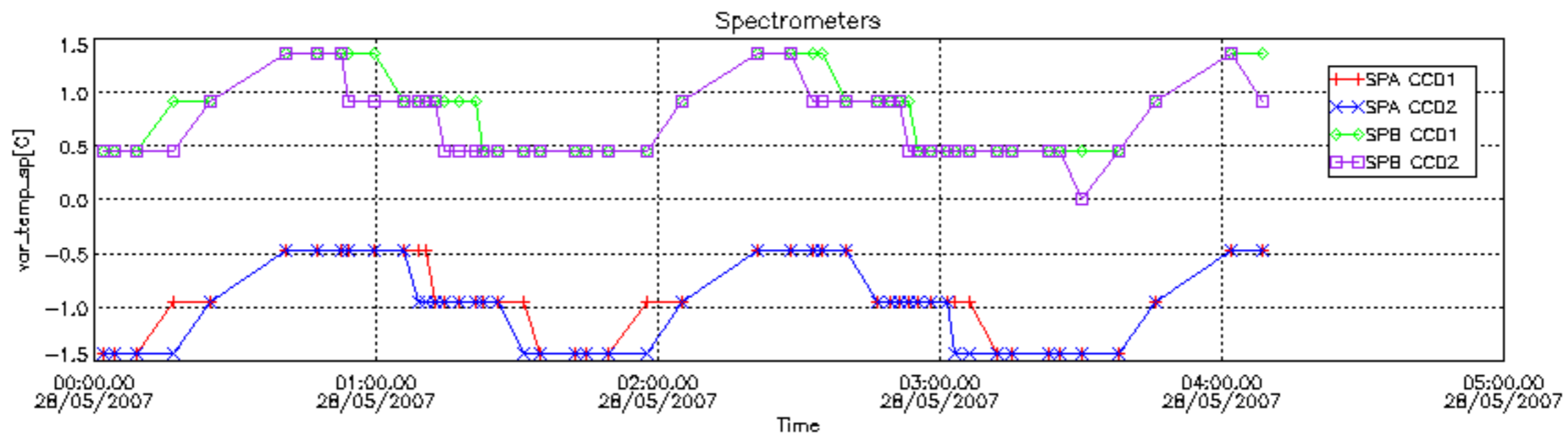


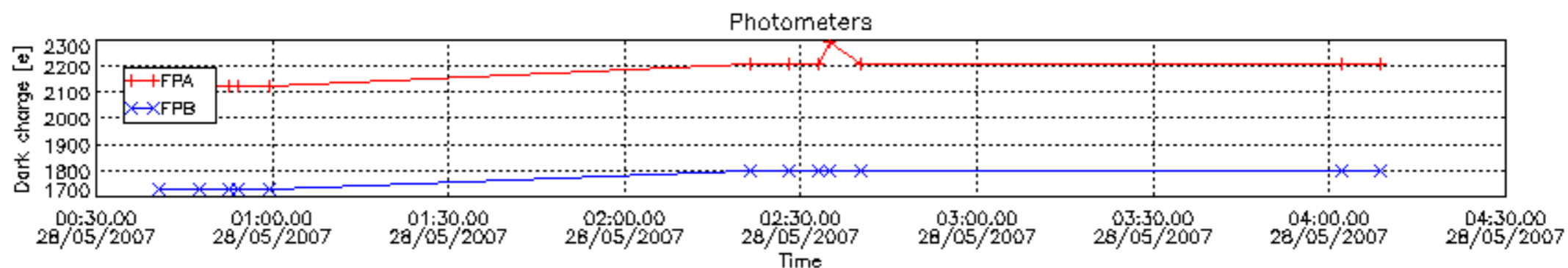
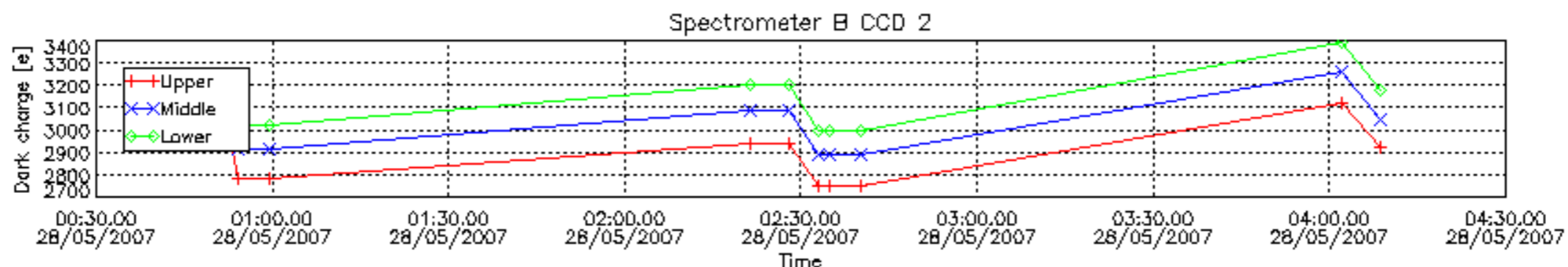
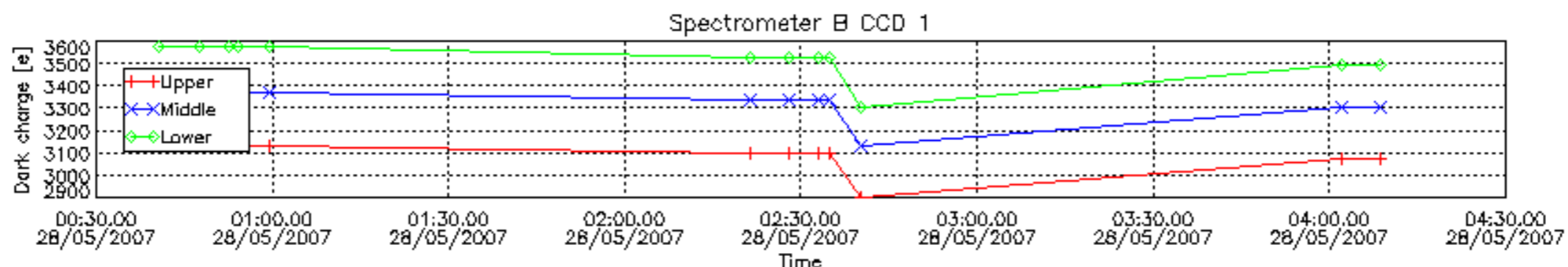
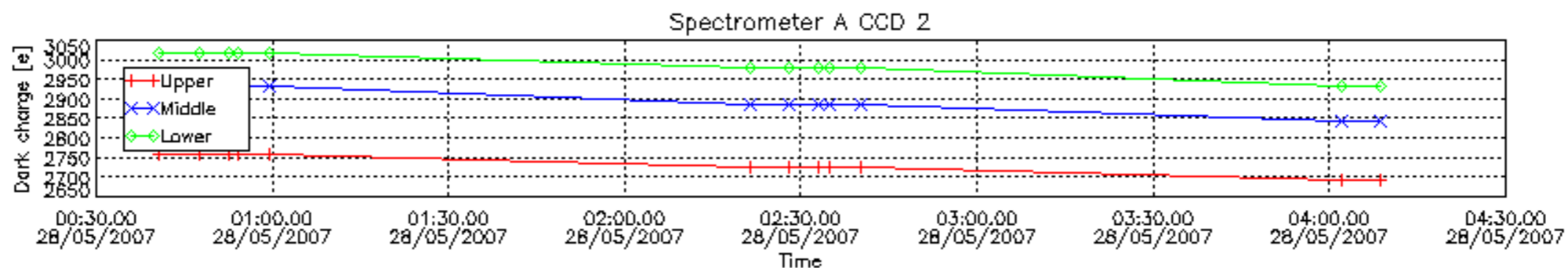
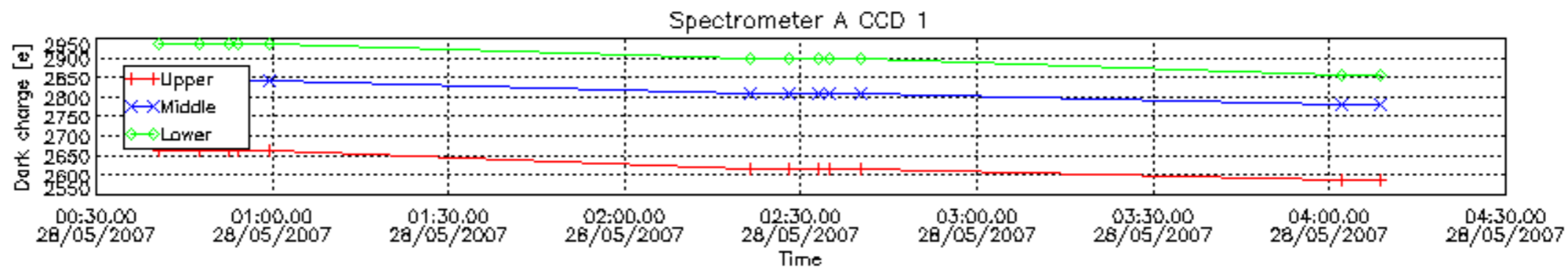
8. Auxiliary Data Files used for the production reported in section 2.4

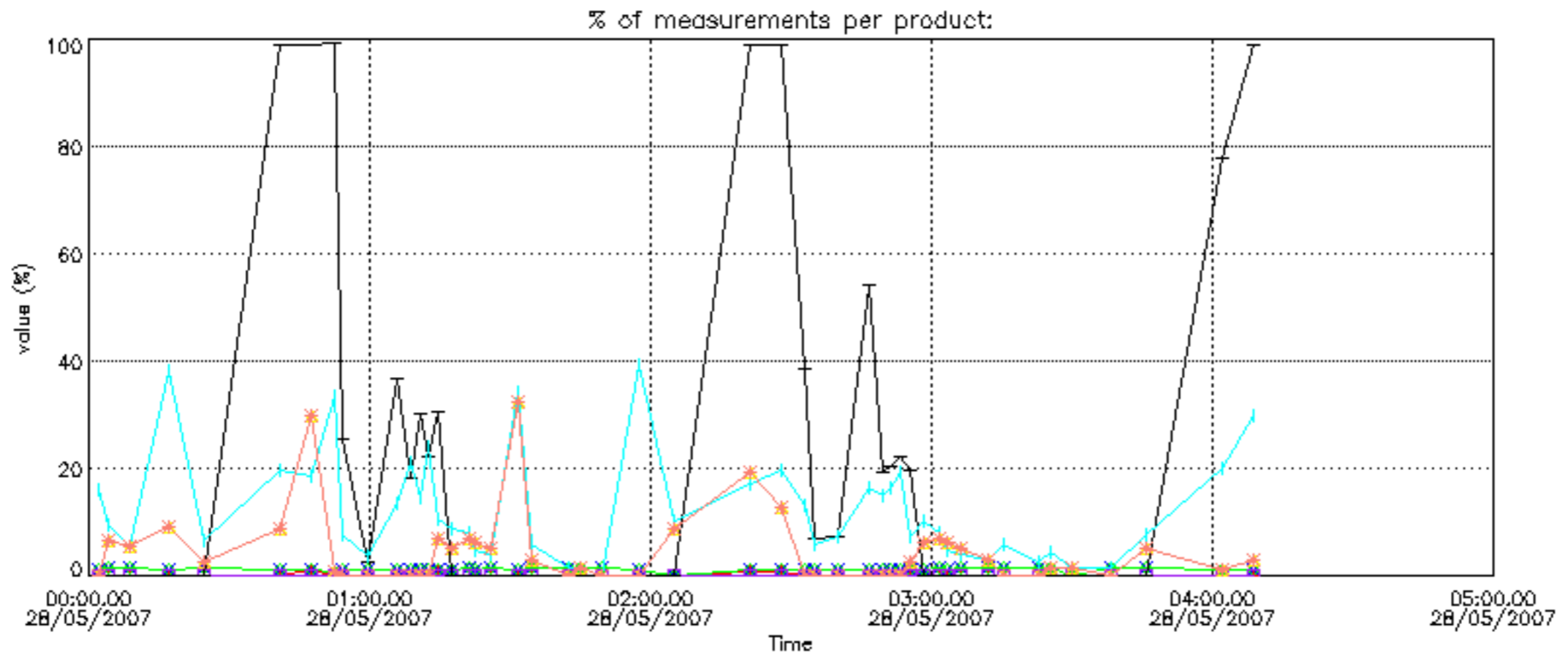
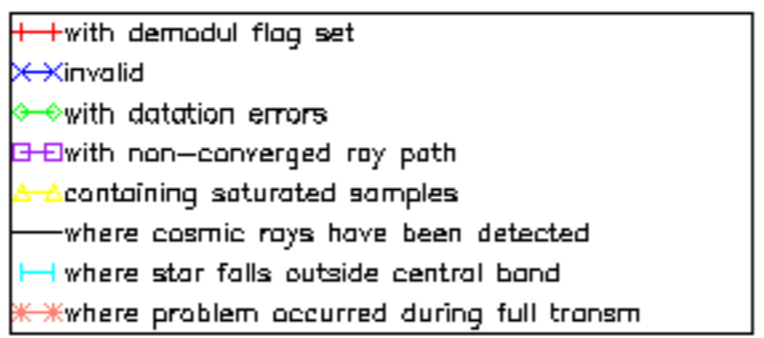
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070525_094239_20070524_000000_20100101_000000	1	28-MAY-2007 00:01:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-MAY-2007 00:01:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-MAY-2007 00:01:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-MAY-2007 00:01:52
ECMWF_FILE	AUX_ECF_AXNECM20070527_062117_20070527_210000_20070528_090000	1	28-MAY-2007 00:01:52
ECMWF_FILE	AUX_ECF_AXNECM20070527_182112_20070528_030000_20070528_150000	46	28-MAY-2007 03:38:13
OPTIONAL_ECMWF_FILE	MISSING	1	28-MAY-2007 00:01:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070527_211648_000057382058_00286_27394_3570.N1	1	28-MAY-2007 00:01:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070527_225745_000057382058_00287_27395_3571.N1	6	28-MAY-2007 00:40:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070528_003842_000054192058_00288_27396_3572.N1	27	28-MAY-2007 02:21:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070528_021420_000041442058_00289_27397_3573.N1	46	28-MAY-2007 03:38:13

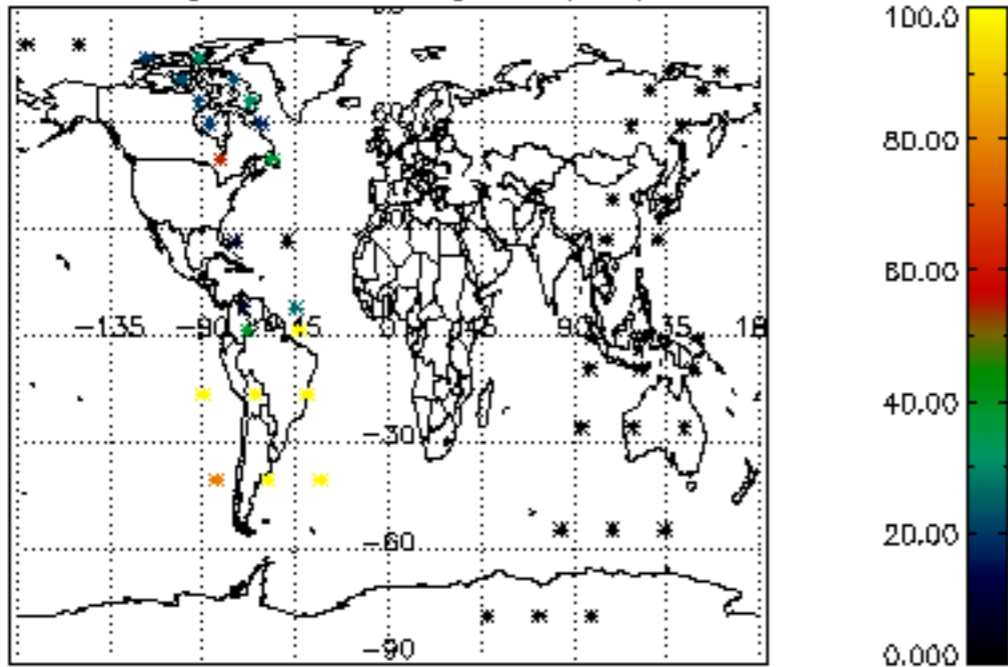




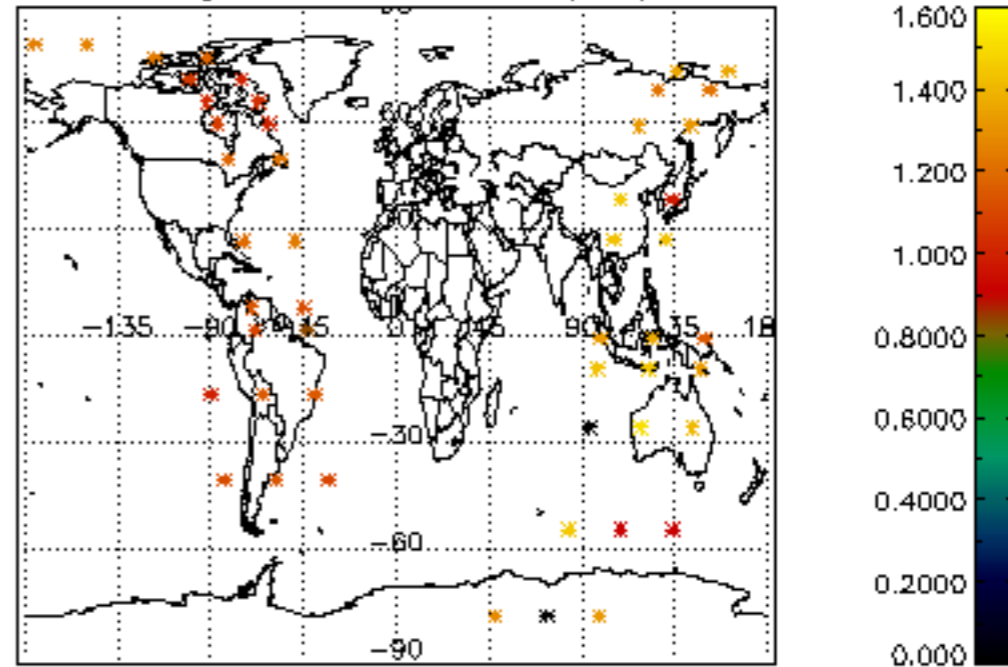




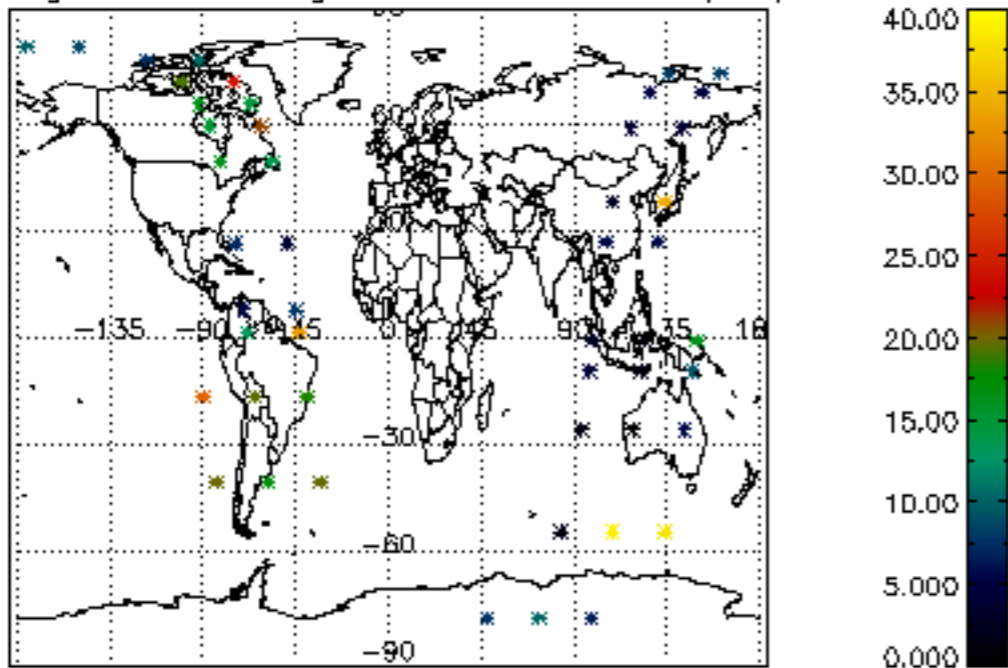
Percentage of cosmic ray hits per profile



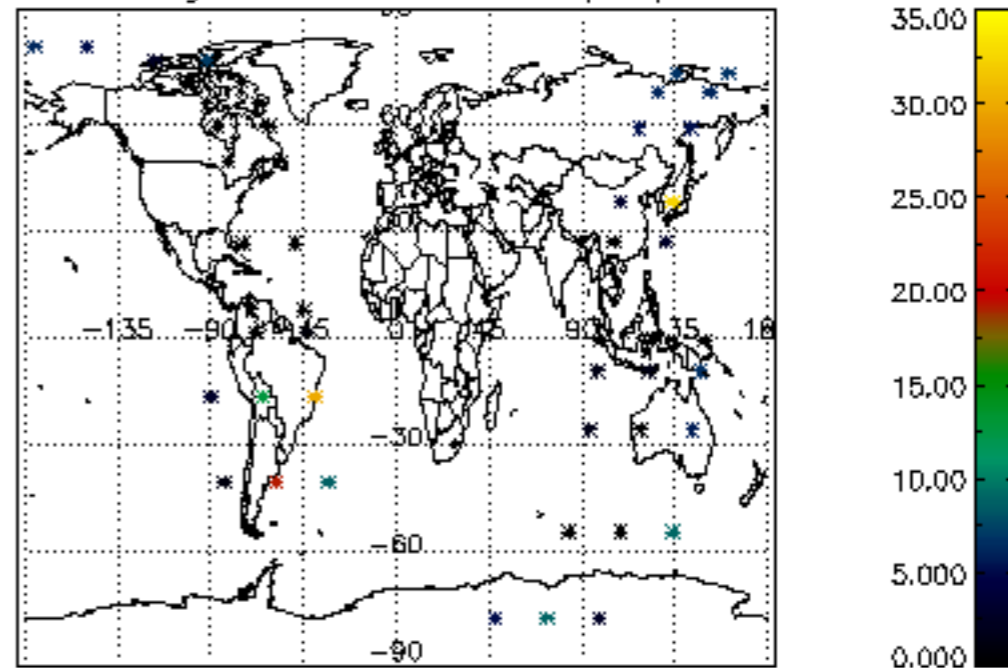
Percentage of datation errors per profile



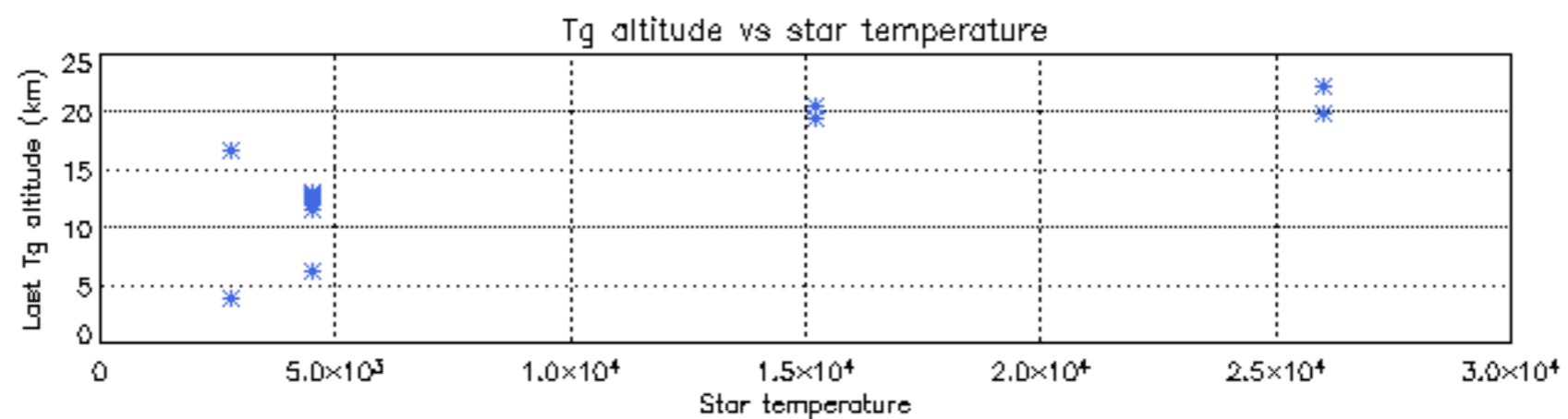
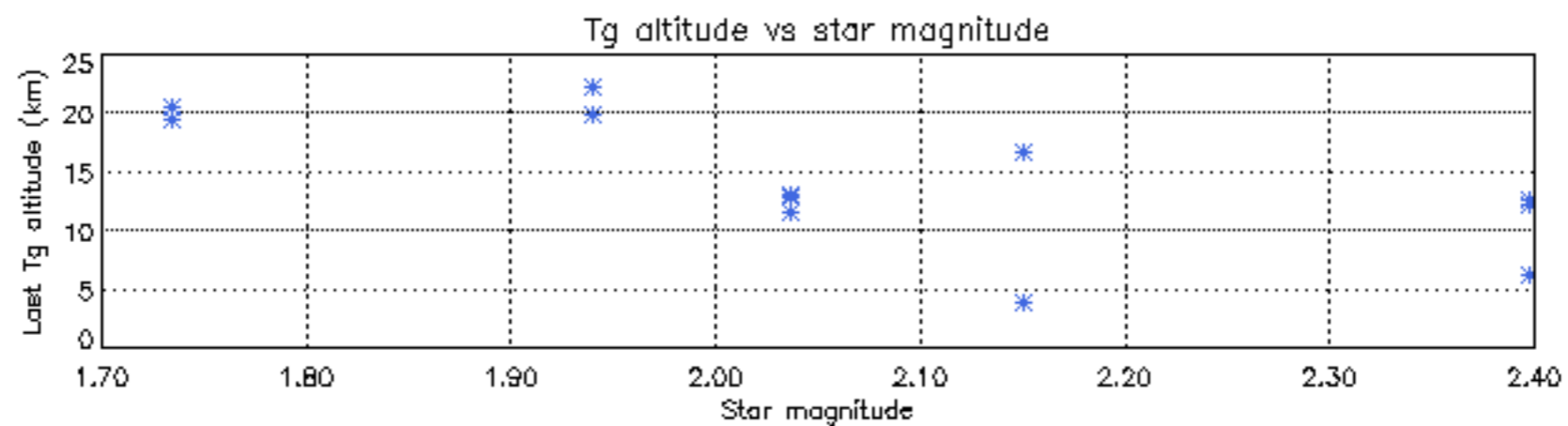
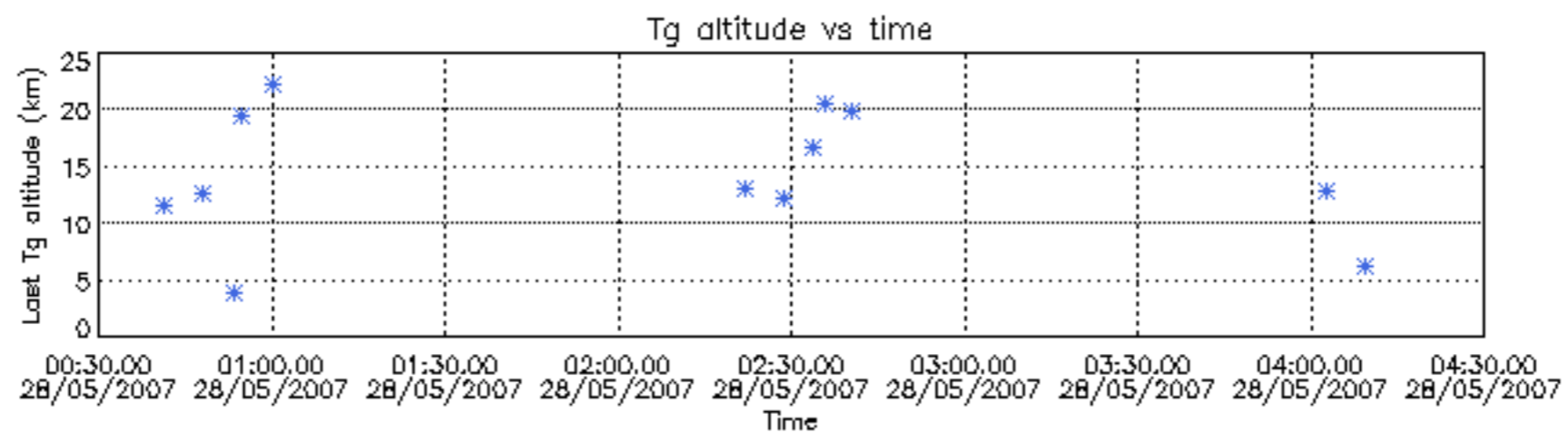
Percentage of star falling outside central band per profile



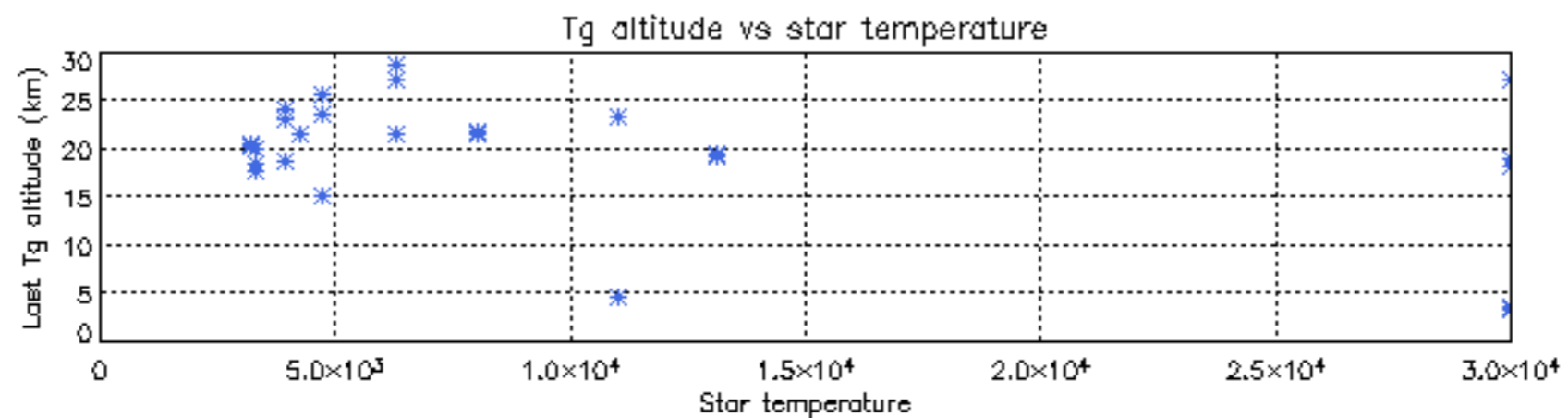
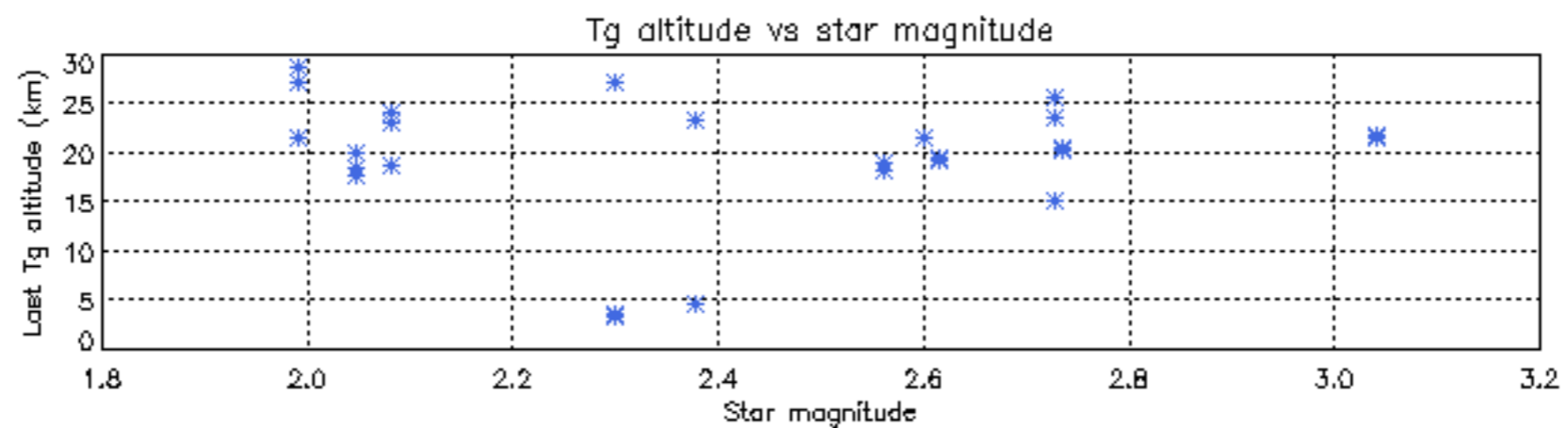
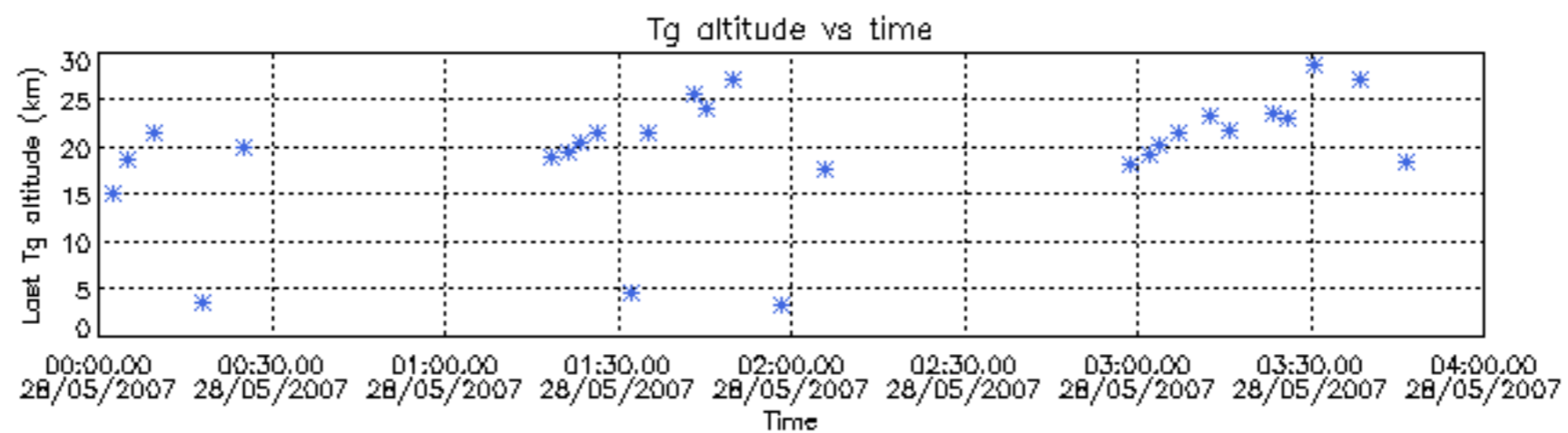
Percentage of saturation errors per profile

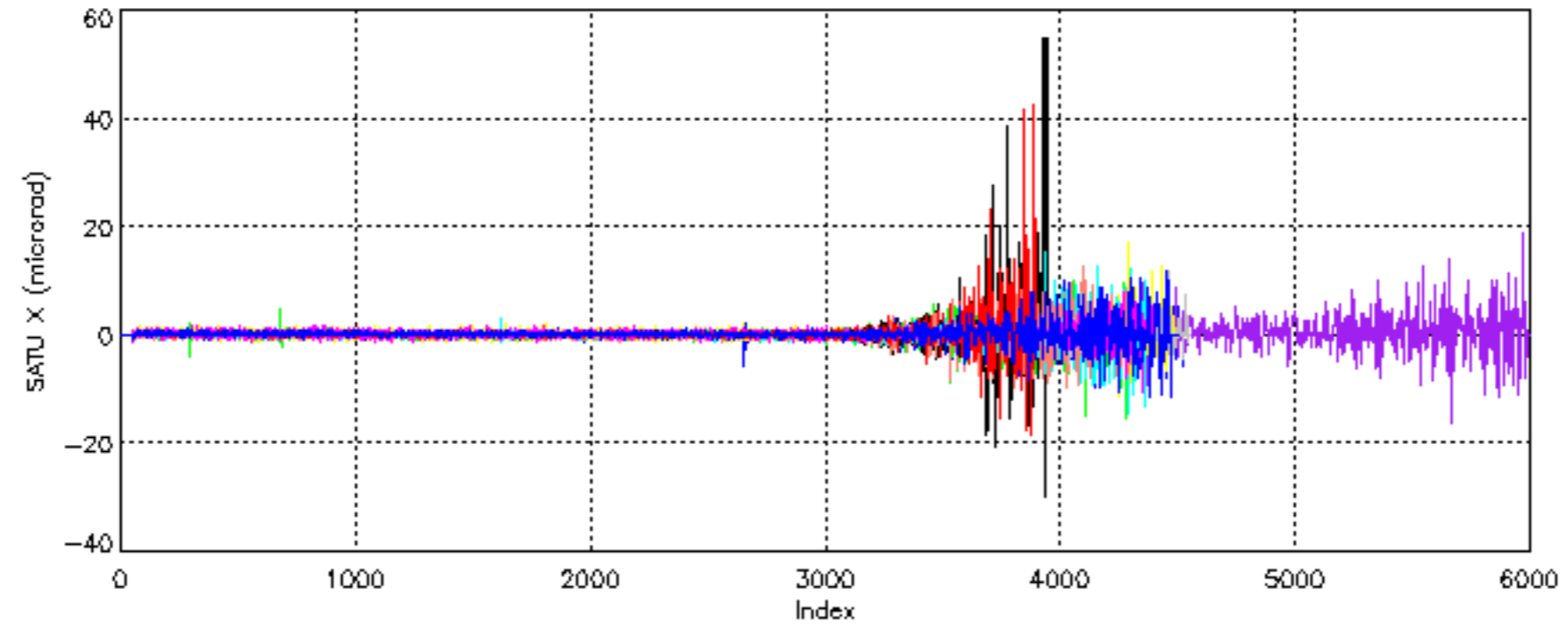


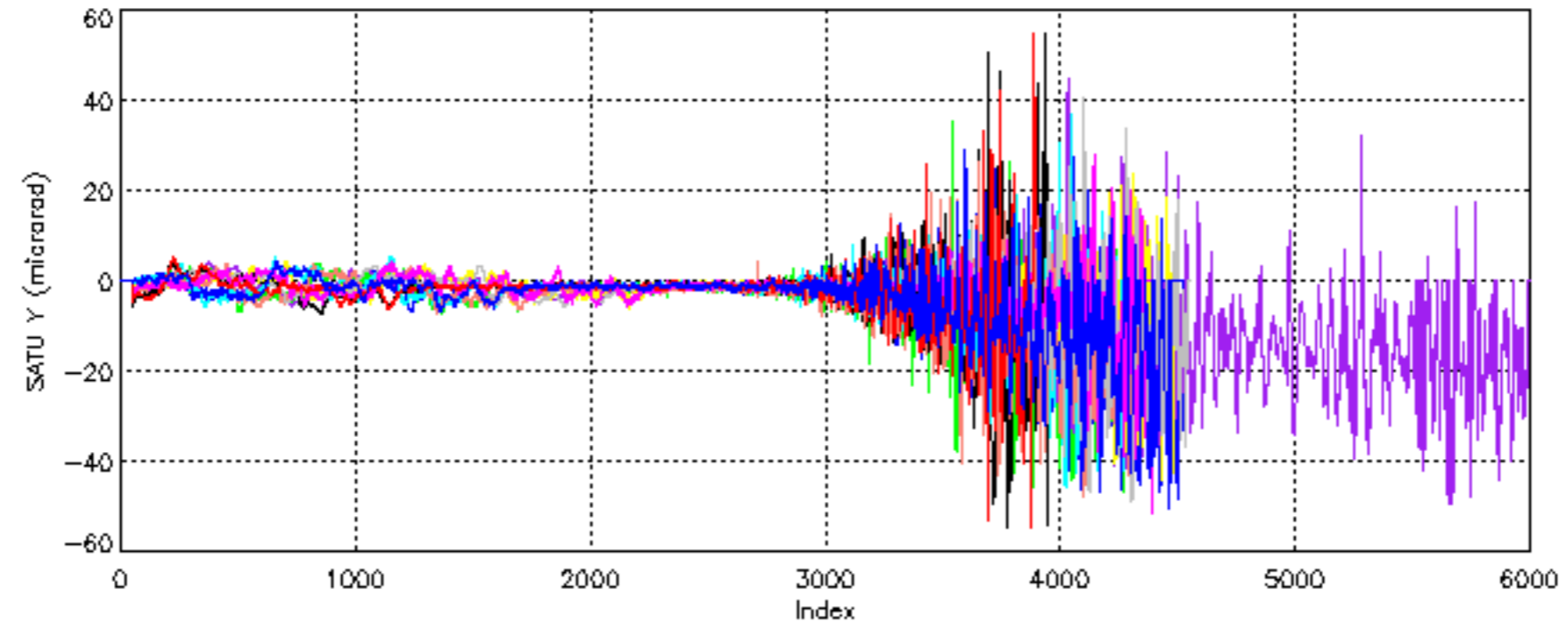
Tangent altitude at which the star is lost

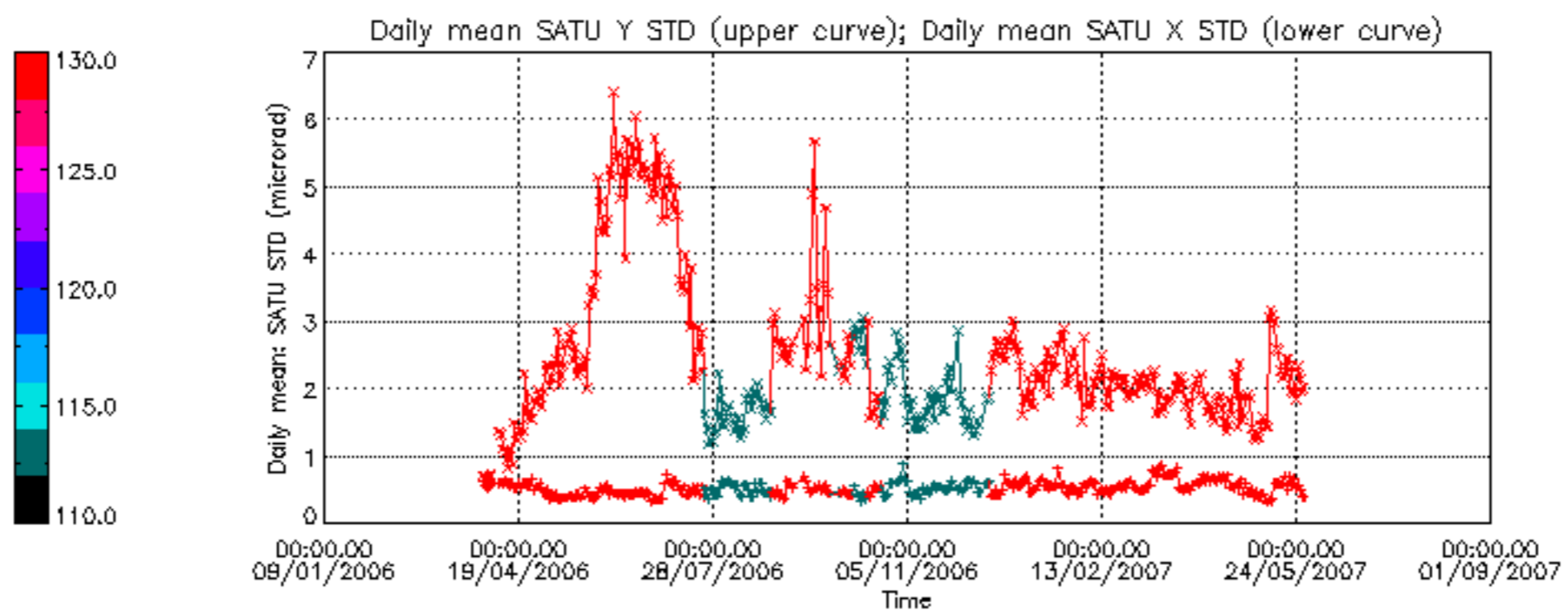


Tangent altitude at which the star is lost









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 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
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 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
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14; 1715.6; 03-MAY-2007 06:08:03; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27042
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4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
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8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

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13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
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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
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9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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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
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4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
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4; 1139.4; 03-MAY-2007 12:40:50; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;27046
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8; 845.7; 04-MAY-2007 23:48:31; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;27067
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11; 1267.8; 04-MAY-2007 23:55:33; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27067
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13; 1718.7; 05-MAY-2007 00:03:04; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27067
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15; 2100.1; 05-MAY-2007 00:09:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27067
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21; 3925.7; 05-MAY-2007 00:39:51; Bright; 50.0; 110; 37Del Cas ; 2.68; 8900;occ; 100; 0;27067
22; 4004.8; 05-MAY-2007 00:41:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27067
23; 5250.1; 05-MAY-2007 01:01:55; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;27067

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7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;27057
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11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
14; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057

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6; 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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 16; 6760.7; 04-MAY-2007 12:02:19; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27059
 17; 6880.0; 04-MAY-2007 12:04:18; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;27059
 18; 7087.2; 04-MAY-2007 12:07:45; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27059
 19; 7179.4; 04-MAY-2007 12:09:17; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27059
 20; 7302.1; 04-MAY-2007 12:11:20; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27059
 21; 7556.1; 04-MAY-2007 12:15:34; Bright; 36.0; 169; 46Gam Hya ; 2.99; 4700;occ; 72; 0;27059
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 2;-2031.6; 04-MAY-2007 12:56:58; Bright; 2.5; 68; 18Alp Cas ; 2.22; 4500;occ; 5; 0;27060
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2; 2560.4; 04-MAY-2007 14:13:30; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27061
3; 2845.2; 04-MAY-2007 14:18:15; Bright; 34.0; 55; 79Zet UMa ; 2.06; 10200;occ; 68; 0;27061
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2; 3007.4; 04-MAY-2007 14:20:57; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27061
3; 3445.3; 04-MAY-2007 14:28:15; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27061
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5; 2844.0; 05-MAY-2007 12:06:01; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27074
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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
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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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15; 6109.2; 23-MAY-2007 08:33:09; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27329
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17; 6842.3; 23-MAY-2007 08:45:22; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27329
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19; 7242.3; 23-MAY-2007 08:52:02; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27329
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22; 7665.8; 23-MAY-2007 08:59:05; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27329
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7; 3937.3; 23-MAY-2007 09:37:33; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;27330
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15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
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3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331
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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
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13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
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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	
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14;	5326.7;	23-MAY-2007	15:02:30;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	85;	0;	27333	
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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	
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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	
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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	
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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	
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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	
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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
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 6; 816.4; 24-MAY-2007 23:19:18; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27353
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 9; 1214.9; 24-MAY-2007 23:25:57; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27353
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13; 979.3; 24-MAY-2007 08:16:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27344
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 7; 822.9; 26-MAY-2007 00:28:24; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27368
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7; 823.3; 26-MAY-2007 02:09:00; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27369
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 15; 2016.5; 29-MAY-2007 22:41:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27424
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