

GOMOS Daily Report 28-DEC-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	30DEC2007 05:37:45
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (28DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

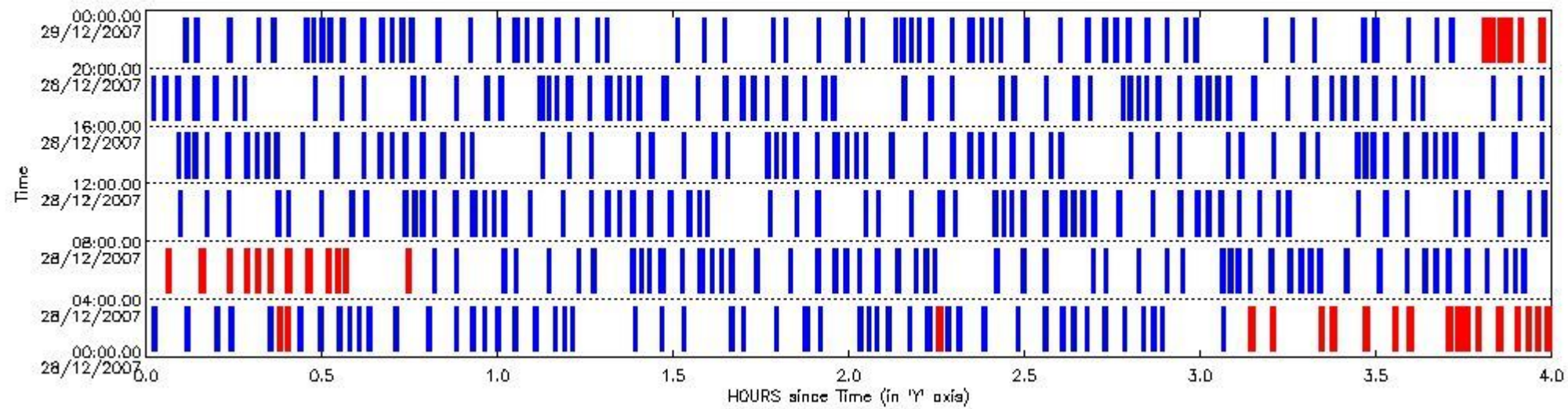
2.1 Level 0 products arrived in PCF (see template [here](#))

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-DEC-2007 00:22:25	AlpLup	78	30459
28-DEC-2007 00:23:43	ZetCen	95	30459
28-DEC-2007 02:14:59	UpsCar	159	30461
28-DEC-2007 03:08:17	7BetUMi	60	30461
28-DEC-2007 03:11:58	14EtaDra	119	30461
28-DEC-2007 03:20:12	40ZetHer	133	30461
28-DEC-2007 03:22:15	5AlpCrB	67	30461
28-DEC-2007 03:27:53	24AlpSer	102	30461
28-DEC-2007 03:32:48	27BetLib	104	30461
28-DEC-2007 03:35:19	9Alp2Lib	122	30461
28-DEC-2007 03:42:05	5TheCen	54	30461
28-DEC-2007 03:43:38	AlpLup	78	30461
28-DEC-2007 03:44:56	ZetCen	95	30461
28-DEC-2007 03:46:57	Alp1Cen	4	30461
28-DEC-2007 03:50:34	Alp1Cru	12	30462

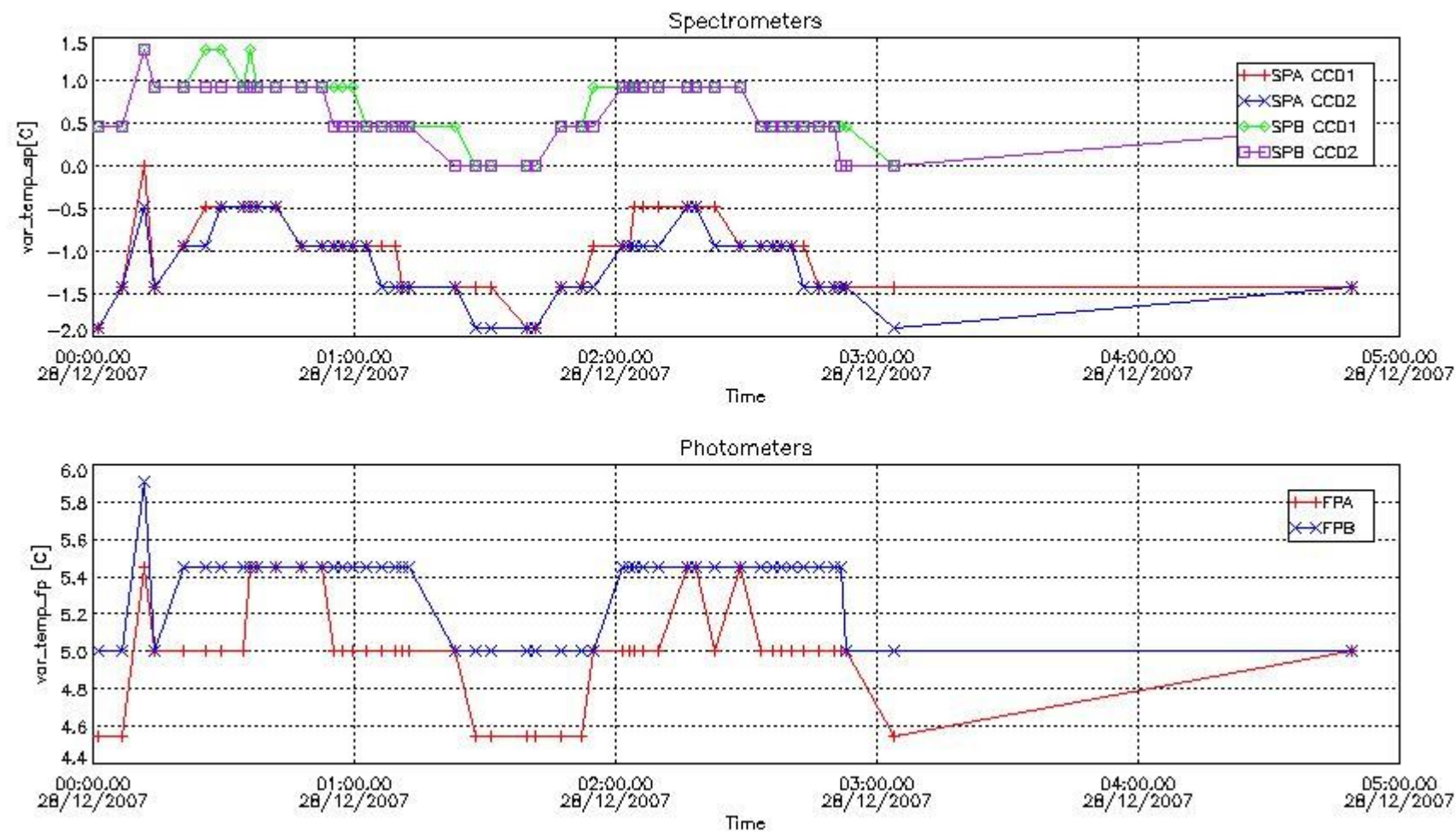
28-DEC-2007 03:53:38	DSA1029	0	30462
28-DEC-2007 03:55:35	UpsCar	159	30462
28-DEC-2007 03:57:12	lotCar	71	30462
28-DEC-2007 03:58:53	EpsCar	41	30462
28-DEC-2007 04:03:18	AlpCar	2	30462
28-DEC-2007 04:09:04	AlpCol	108	30462
28-DEC-2007 04:13:45	11AlpLep	101	30462
28-DEC-2007 04:16:38	19BetOri	7	30462
28-DEC-2007 04:18:35	46EpsOri	30	30462
28-DEC-2007 04:20:49	24GamOri	27	30462
28-DEC-2007 04:23:49	87AlpTau	13	30462
28-DEC-2007 04:27:20	12BetTau	28	30462
28-DEC-2007 04:30:37	45EpsPer	149	30462
28-DEC-2007 04:32:16	13AlpAur	6	30462
28-DEC-2007 04:33:40	33AlpPer	35	30462
28-DEC-2007 04:44:19	1AlpUMi	49	30462
28-DEC-2007 23:48:14	GamLup	131	30473
28-DEC-2007 23:49:27	BetLup	109	30473
28-DEC-2007 23:50:54	AlpLup	78	30473
28-DEC-2007 23:52:14	ZetCen	95	30473
28-DEC-2007 23:54:12	Alp1Cen	4	30473
28-DEC-2007 23:57:51	Alp1Cru	12	30474

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_1PNPDE20071228_000104_000000362064_00345_30459_4501.N1	28-DEC-2007 00:01:04	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	30459	No
2	GOM_TRA_1PNPDE20071228_000642_000000352064_00345_30459_4502.N1	28-DEC-2007 00:06:42	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	30459	No
3	GOM_TRA_1PNPDE20071228_001137_000000542064_00345_30459_4615.N1	28-DEC-2007 00:11:37	Bright	54.000	104	27Bet Lib	2.6140	13100.	108	30459	Yes
4	GOM_TRA_1PNPDE20071228_001408_000000432064_00345_30459_4616.N1	28-DEC-2007 00:14:08	Bright	43.000	122	9Alp2Lib	2.7470	9700.0	86	30459	No
5	GOM_TRA_1PNPDE20071228_002053_000000442064_00345_30459_4617.N1	28-DEC-2007 00:20:53	Dark	44.000	54	5The Cen	2.0550	4500.0	88	30459	No
6	GOM_TRA_1PNPDE20071228_002546_000000522064_00345_30459_4618.N1	28-DEC-2007 00:25:46	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	30459	No
7	GOM_TRA_1PNPDE20071228_002923_000000402064_00346_30460_4619.N1	28-DEC-2007 00:29:23	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	30460	No
8	GOM_TRA_1PNPDE20071228_003423_000000382064_00346_30460_4620.N1	28-DEC-2007 00:34:23	Dark	37.500	159	Ups Car	2.9200	7200.0	75	30460	No
9	GOM_TRA_1PNPDE20071228_003600_000000422064_00346_30460_4621.N1	28-DEC-2007 00:36:00	Dark	41.500	71	lot Car	2.2460	7700.0	83	30460	No
10	GOM_TRA_1PNPDE20071228_003741_000000482064_00346_30460_4622.N1	28-DEC-2007 00:37:41	Dark	47.500	41	Eps Car	1.8600	4100.0	95	30460	No
11	GOM_TRA_1PNPDE20071228_004206_000000532064_00346_30460_4623.N1	28-DEC-2007 00:42:06	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	30460	No
12	GOM_TRA_1PNPDE20071228_004753_000000402064_00346_30460_4624.N1	28-DEC-2007 00:47:53	Straylight	40.000	108	Alp Col	2.6520	15200.	80	30460	No
13	GOM_TRA_1PNPDE20071228_005234_000000422064_00346_30460_4625.N1	28-DEC-2007 00:52:34	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30460	No
14	GOM_TRA_1PNPDE20071228_005527_000000452064_00346_30460_4626.N1	28-DEC-2007 00:55:27	Straylight	44.500	7	19Bet Ori	0.10000	14000.	89	30460	No
15	GOM_TRA_1PNPDE20071228_005724_000000452064_00346_30460_4627.N1	28-DEC-2007 00:57:24	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	30460	No
16	GOM_TRA_1PNPDE20071228_005938_000000422064_00346_30460_4628.N1	28-DEC-2007 00:59:38	Twilight_stray	42.000	27	24Gam Ori	1.6360	26000.	84	30460	No
17	GOM_TRA_1PNPDE20071228_010238_000000512064_00346_30460_4629.N1	28-DEC-2007 01:02:38	Bright	51.000	13	87Alp Tau	0.86700	3800.0	102	30460	No
18	GOM_TRA_1PNPDE20071228_010610_000000402064_00346_30460_4630.N1	28-DEC-2007 01:06:10	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	30460	No
19	GOM_TRA_1PNPDE20071228_010926_000000342064_00346_30460_4631.N1	28-DEC-2007 01:09:26	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30460	No
20	GOM_TRA_1PNPDE20071228_011106_000000402064_00346_30460_4632.N1	28-DEC-2007 01:11:06	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	30460	No
21	GOM_TRA_1PNPDE20071228_011229_000000352064_00346_30460_4633.N1	28-DEC-2007 01:12:29	Bright	34.500	35	33Alp Per	1.7950	6250.0	69	30460	No
22	GOM_TRA_1PNPDE20071228_012308_000000352064_00346_30460_4634.N1	28-DEC-2007 01:23:08	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30460	No
23	GOM_TRA_1PNPDE20071228_012742_000000332064_00346_30460_4635.N1	28-DEC-2007 01:27:42	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	30460	No
24	GOM_TRA_1PNPDE20071228_013123_000000372064_00346_30460_4636.N1	28-DEC-2007 01:31:23	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30460	No
25	GOM_TRA_1PNPDE20071228_013937_000000512064_00346_30460_4637.N1	28-DEC-2007 01:39:37	Bright	51.000	133	40Zet Her	2.8070	6000.0	102	30460	No
26	GOM_TRA_1PNPDE20071228_014140_000000372064_00346_30460_4638.N1	28-DEC-2007 01:41:40	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	30460	No
27	GOM_TRA_1PNPDE20071228_014718_000000342064_00346_30460_4639.N1	28-DEC-2007 01:47:18	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30460	No
28	GOM_TRA_1PNPDE20071228_015213_000000542064_00346_30460_4779.N1	28-DEC-2007 01:52:13	Bright	54.000	104	27Bet Lib	2.6140	13100.	108	30460	No
29	GOM_TRA_1PNPDE20071228_015444_000000432064_00346_30460_4780.N1	28-DEC-2007 01:54:44	Bright	43.000	122	9Alp2Lib	2.7470	9700.0	86	30460	No
30	GOM_TRA_1PNPDE20071228_020129_000000472064_00346_30460_4781.N1	28-DEC-2007 02:01:29	Dark	46.500	54	5The Cen	2.0550	4500.0	93	30460	No
31	GOM_TRA_1PNPDE20071228_020302_000000402064_00346_30460_4782.N1	28-DEC-2007 02:03:02	Dark	40.000	78	Alp Lup	2.3040	28000.	80	30460	No
32	GOM_TRA_1PNPDE20071228_020421_000000392064_00346_30460_4783.N1	28-DEC-2007 02:04:21	Dark	38.500	95	Zet Cen	2.5450	26000.	77	30460	No

33	GOM_TRA_1PNPDE20071228_020622_000000412064_00346_30460_4784.N1	28-DEC-2007 02:06:22	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	30460	No
34	GOM_TRA_1PNPDE20071228_020959_000000412064_00347_30461_4785.N1	28-DEC-2007 02:09:59	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30461	No
35	GOM_TRA_1PNPDE20071228_021637_000000412064_00347_30461_4786.N1	28-DEC-2007 02:16:37	Dark	40.500	71	lot Car	2.2460	7700.0	81	30461	No
36	GOM_TRA_1PNPDE20071228_021818_000000552064_00347_30461_4787.N1	28-DEC-2007 02:18:18	Dark	54.500	41	Eps Car	1.8600	4100.0	109	30461	No
37	GOM_TRA_1PNPDE20071228_022242_000000452064_00347_30461_4788.N1	28-DEC-2007 02:22:42	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30461	No
38	GOM_TRA_1PNPDE20071228_022829_000000412064_00347_30461_4789.N1	28-DEC-2007 02:28:29	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30461	No
39	GOM_TRA_1PNPDE20071228_023310_000000432064_00347_30461_4790.N1	28-DEC-2007 02:33:10	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	30461	No
40	GOM_TRA_1PNPDE20071228_023603_000000502064_00347_30461_4791.N1	28-DEC-2007 02:36:03	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	30461	No
41	GOM_TRA_1PNPDE20071228_023800_000000452064_00347_30461_4792.N1	28-DEC-2007 02:38:00	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	30461	No
42	GOM_TRA_1PNPDE20071228_024014_000000412064_00347_30461_4793.N1	28-DEC-2007 02:40:14	Twilight_stray	41.000	27	24Gam Ori	1.6360	26000.	82	30461	No
43	GOM_TRA_1PNPDE20071228_024314_000000492064_00347_30461_4794.N1	28-DEC-2007 02:43:14	Bright	48.500	13	87Alp Tau	0.86700	3800.0	97	30461	No
44	GOM_TRA_1PNPDE20071228_024646_000000392064_00347_30461_4795.N1	28-DEC-2007 02:46:46	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30461	No
45	GOM_TRA_1PNPDE20071228_025002_000000352064_00347_30461_4796.N1	28-DEC-2007 02:50:02	Bright	35.000	149	45Eps Per	2.8880	30000.	70	30461	No
46	GOM_TRA_1PNPDE20071228_025141_000000402064_00347_30461_4797.N1	28-DEC-2007 02:51:41	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	30461	No
47	GOM_TRA_1PNPDE20071228_025305_000000372064_00347_30461_4798.N1	28-DEC-2007 02:53:05	Bright	37.000	35	33Alp Per	1.7950	6250.0	74	30461	No
48	GOM_TRA_1PNPDE20071228_030344_000000352064_00347_30461_4799.N1	28-DEC-2007 03:03:44	Bright	34.500	49	1Alp UMI	1.9900	6300.0	69	30461	No
49	GOM_TRA_1PNPDE20071228_044854_000000412064_00348_30462_4961.N1	28-DEC-2007 04:48:54	Bright	40.500	60	7Bet UMI	2.0810	3950.0	81	30462	No

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



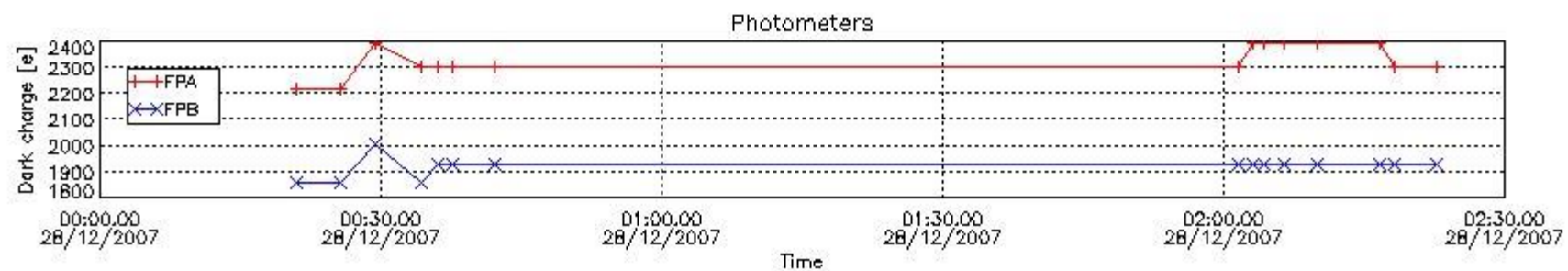
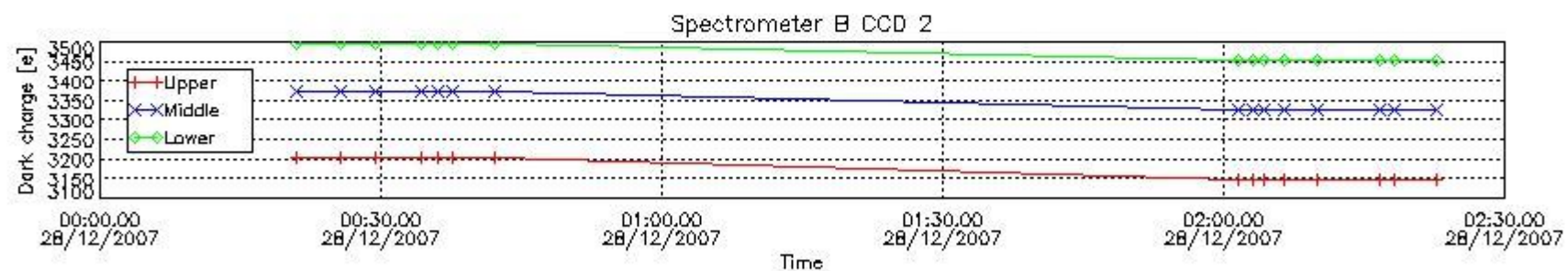
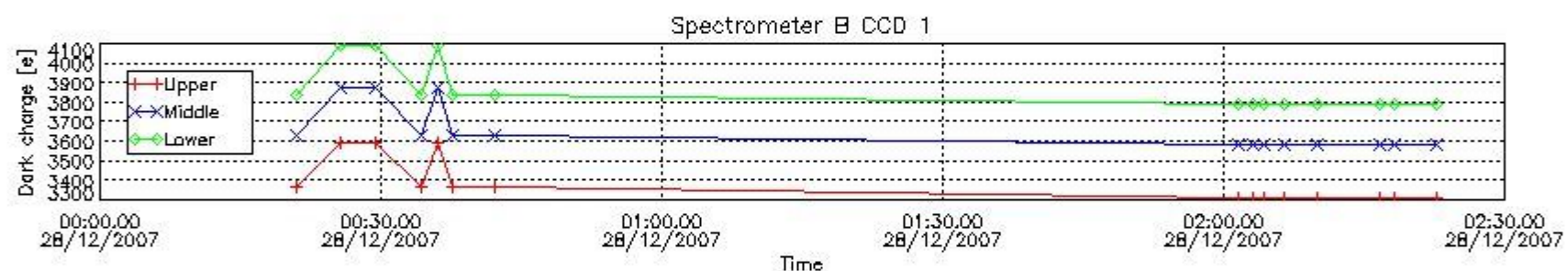
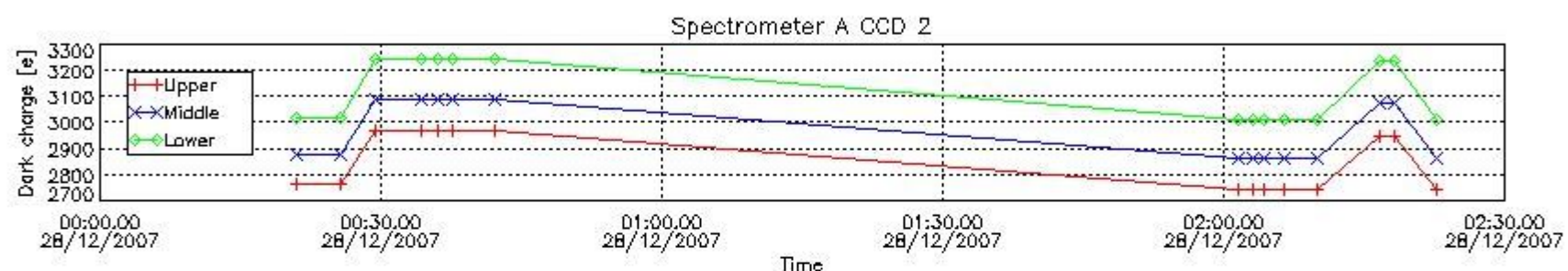
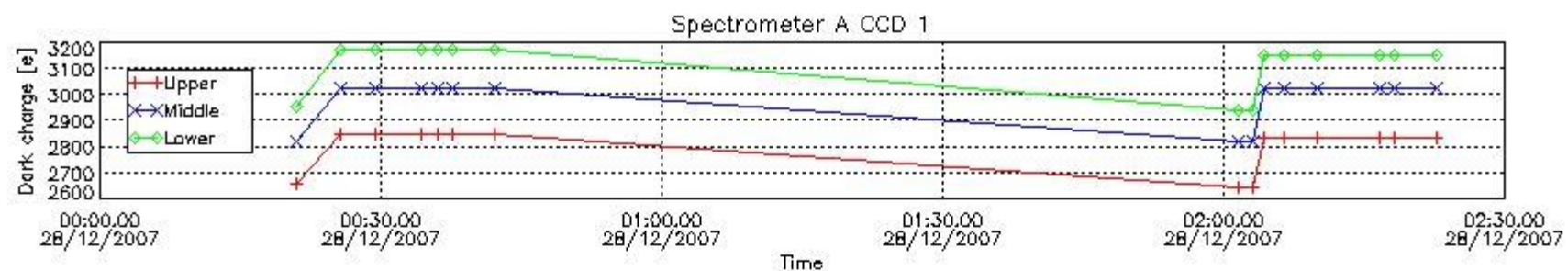
4. Overview of dark signal processing per product

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



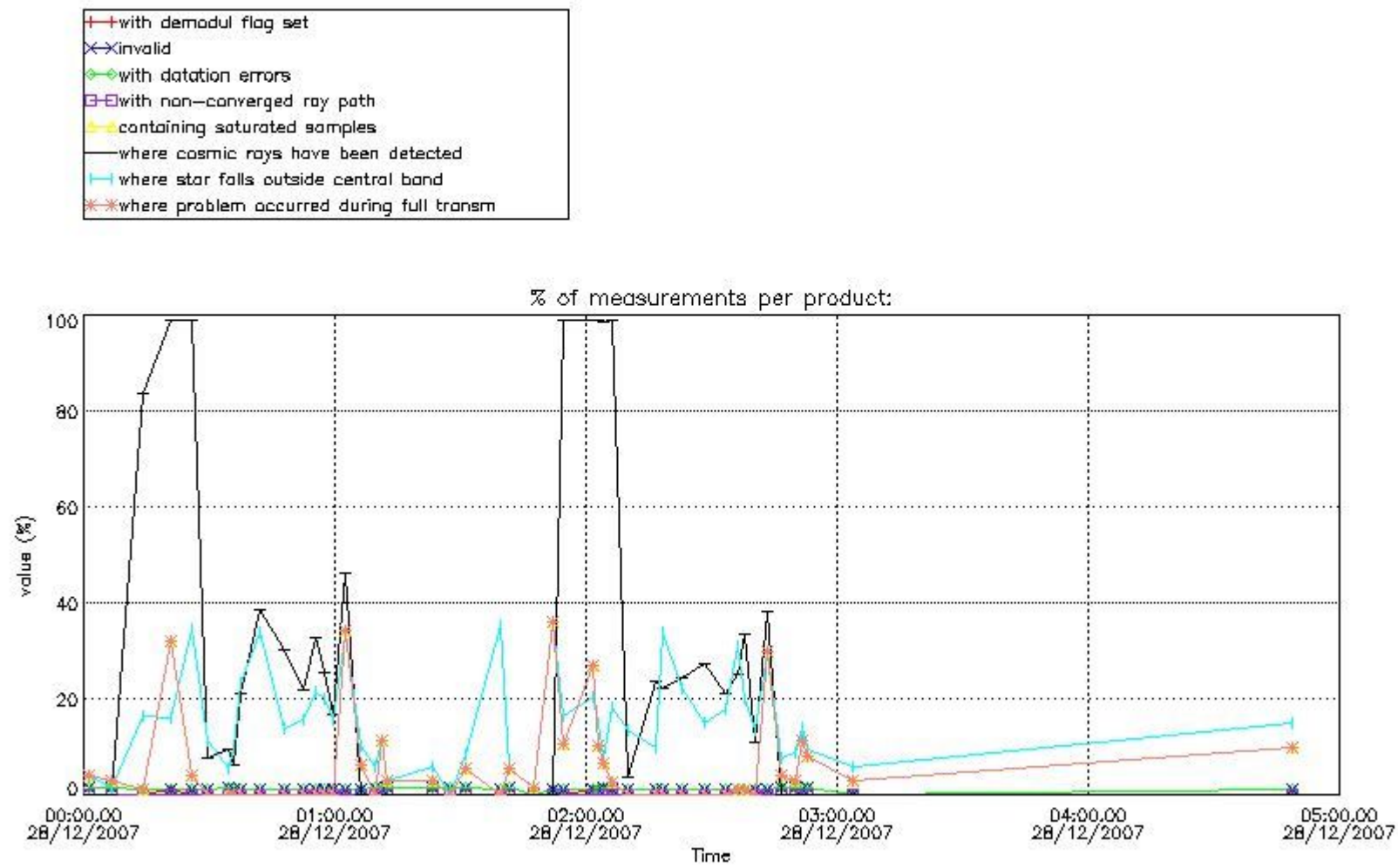
5. Demodulation flag and quality information monitoring

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.

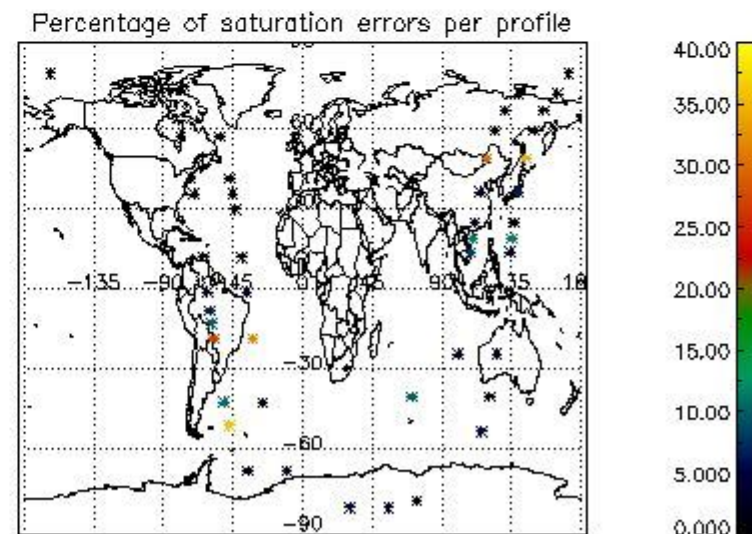
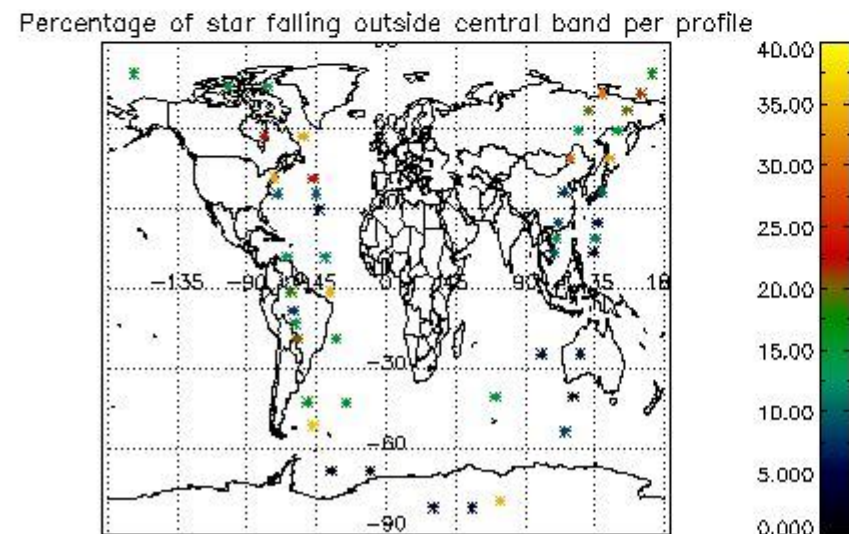
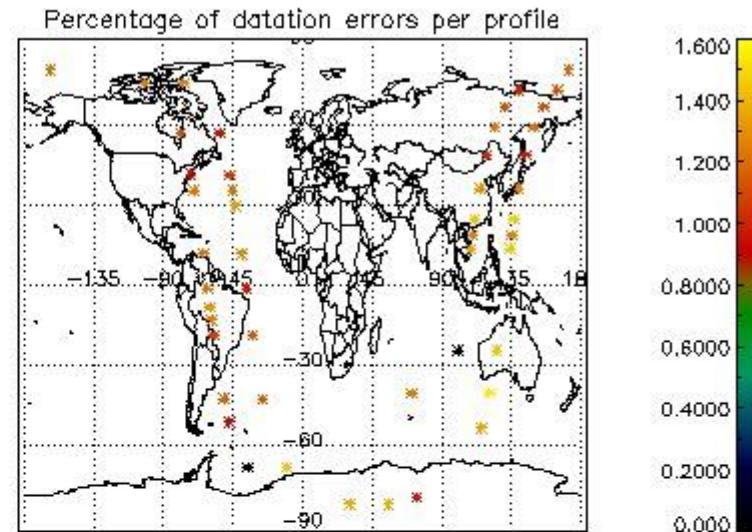
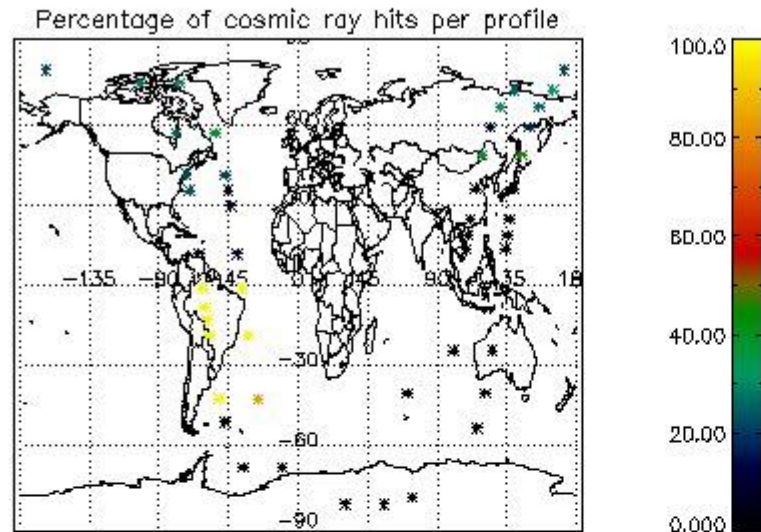
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.8333 %
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)



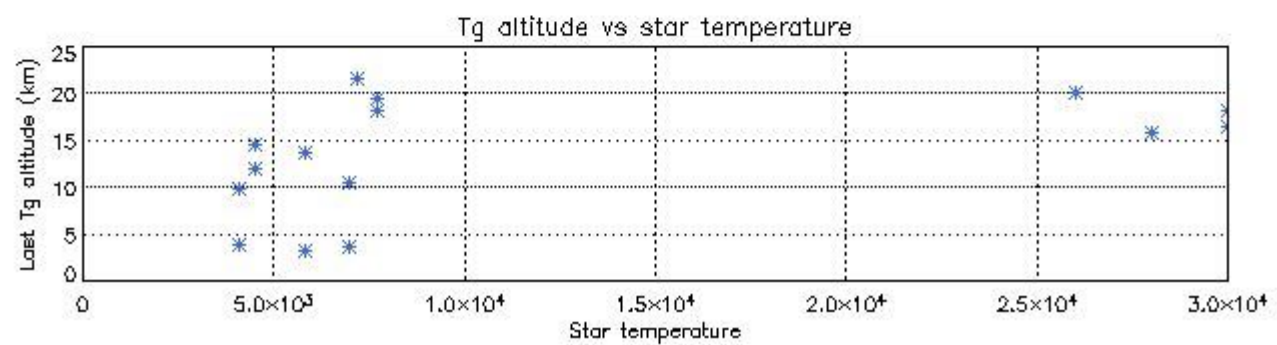
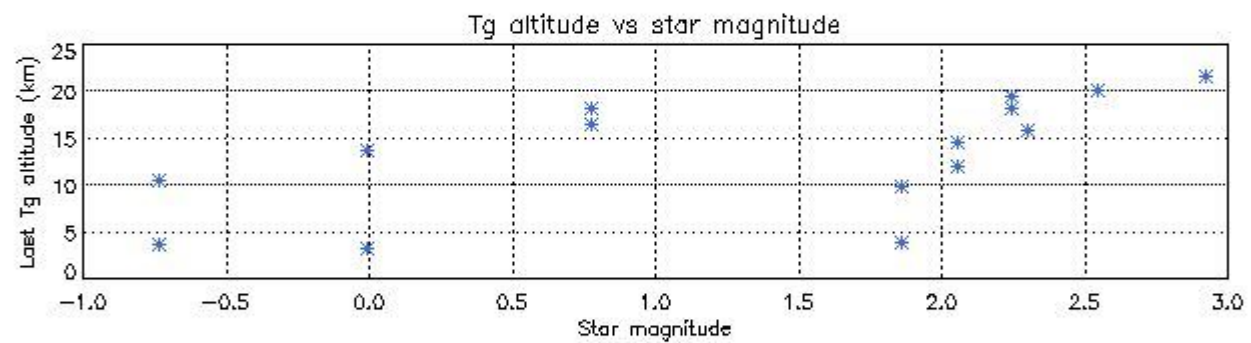
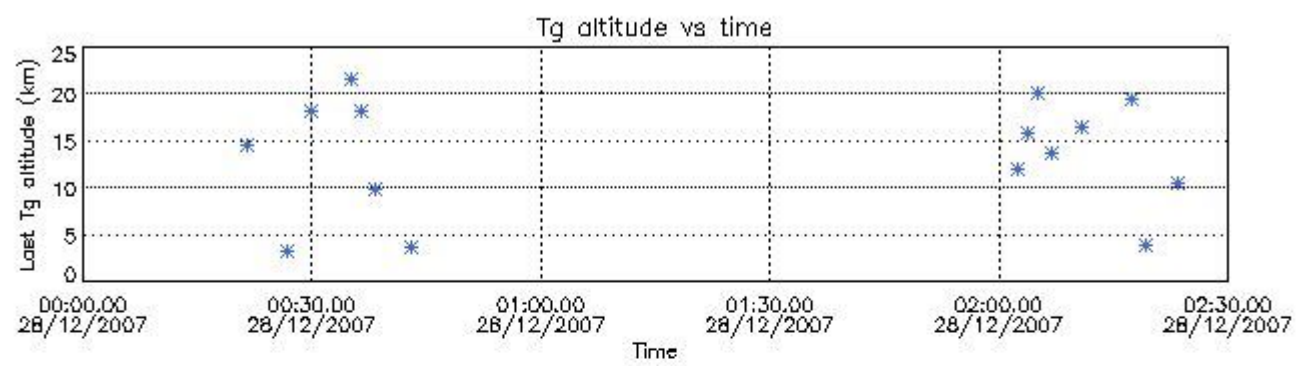
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.402	17.860	NaN
St. deviation:	6.0886	7.2286	NaN
Maximum:	21.617	31.174	NaN
Minimum:	3.3029	3.6617	NaN
Number of data:	15.000	23.000	NaN

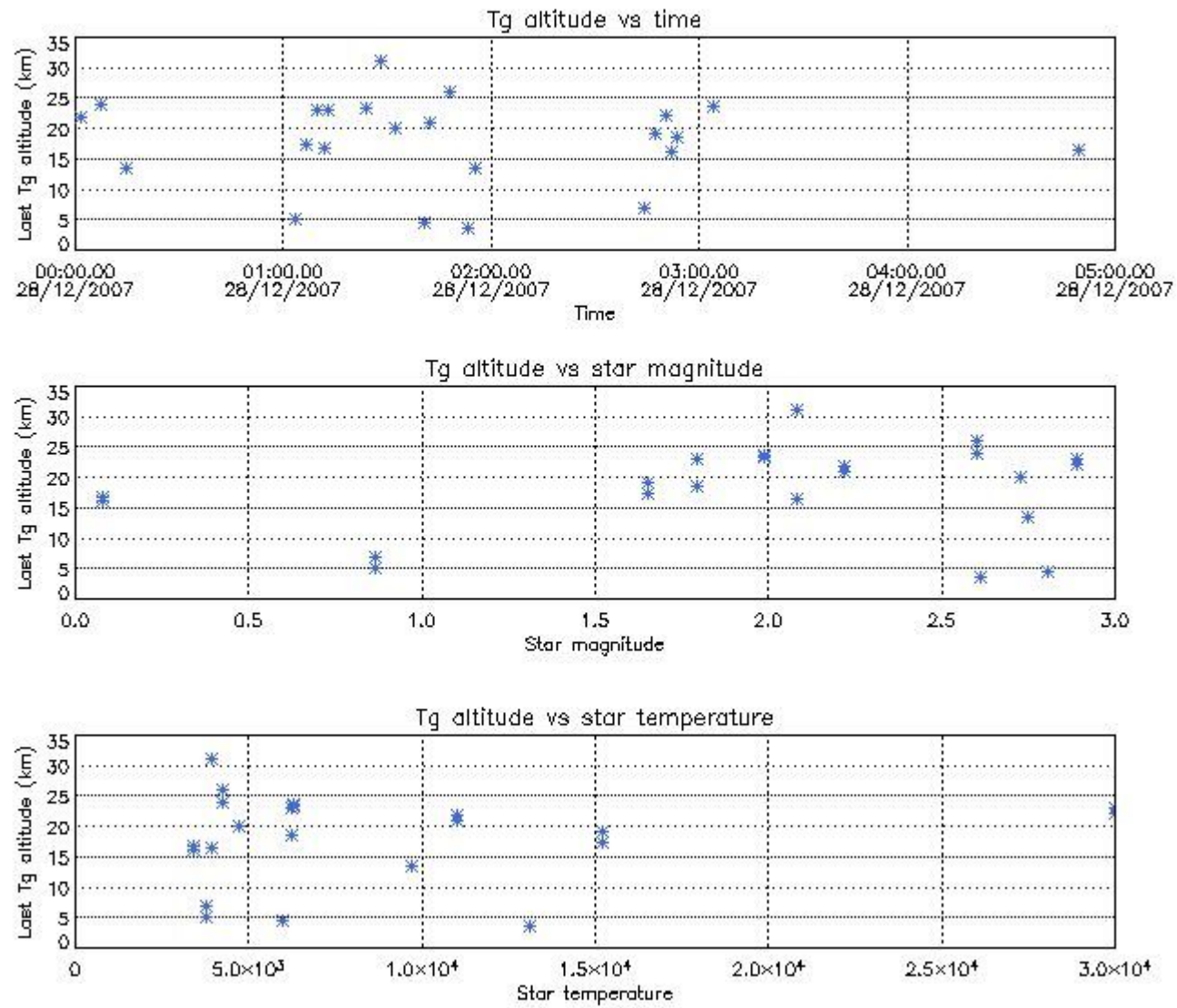
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

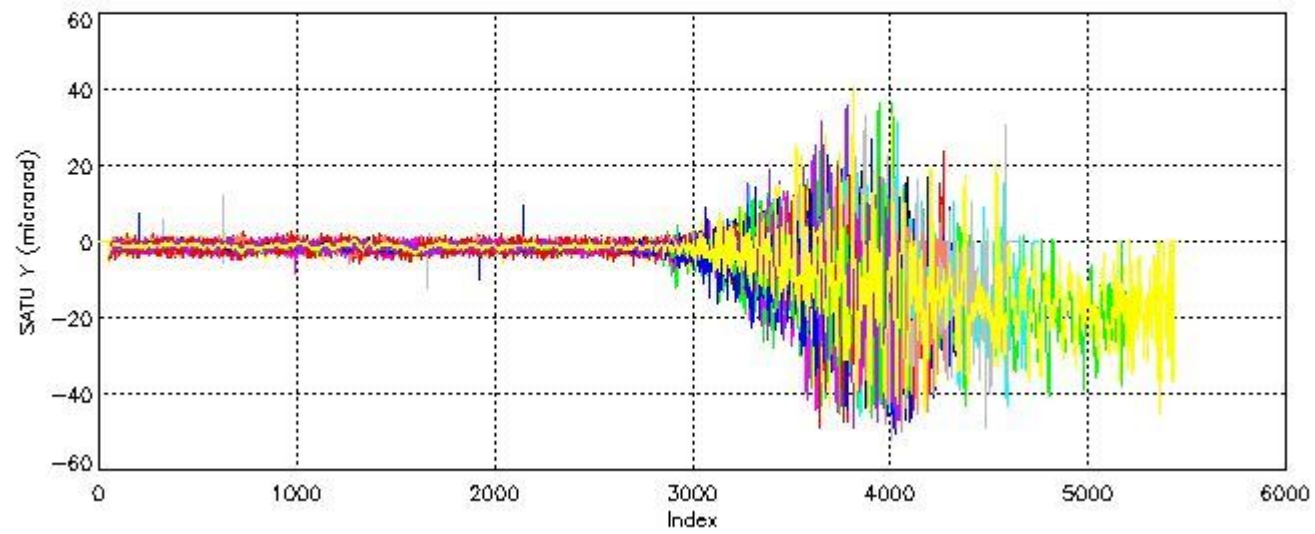
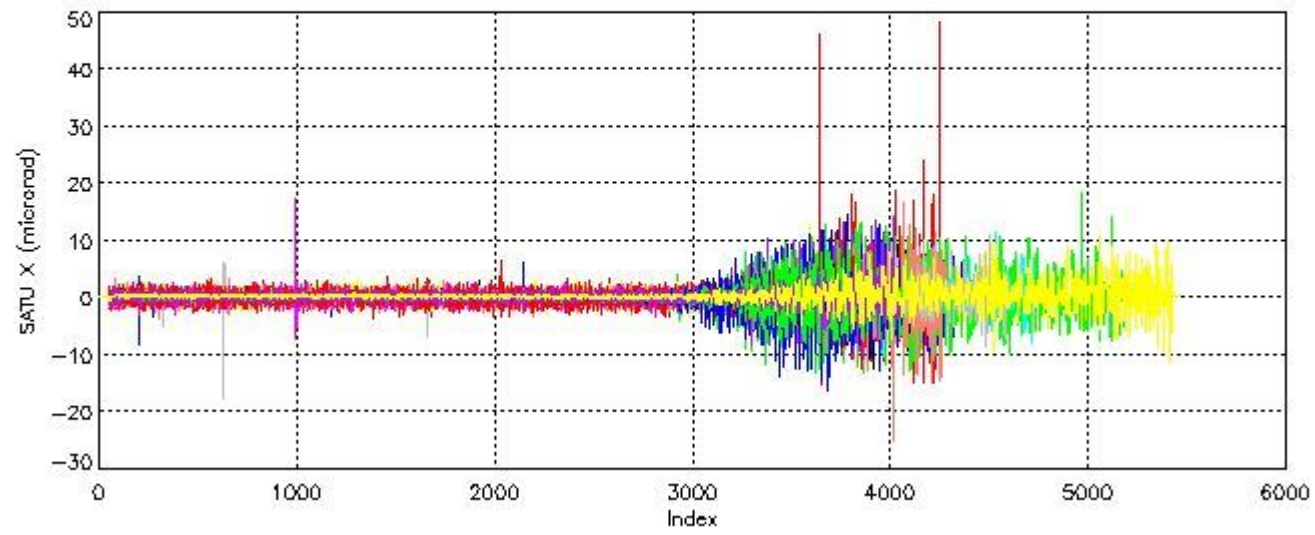


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.096488	-1.3365	0.045413	-1.2812
St. deviation:	0.43393	0.72024	0.66800	0.93726
Maximum:	6.2000	12.000	5.7000	4.9000
Minimum:	-17.700	-5.9000	-5.5000	-7.2000

Number of data:	13650.	13650.	19300.	19300.
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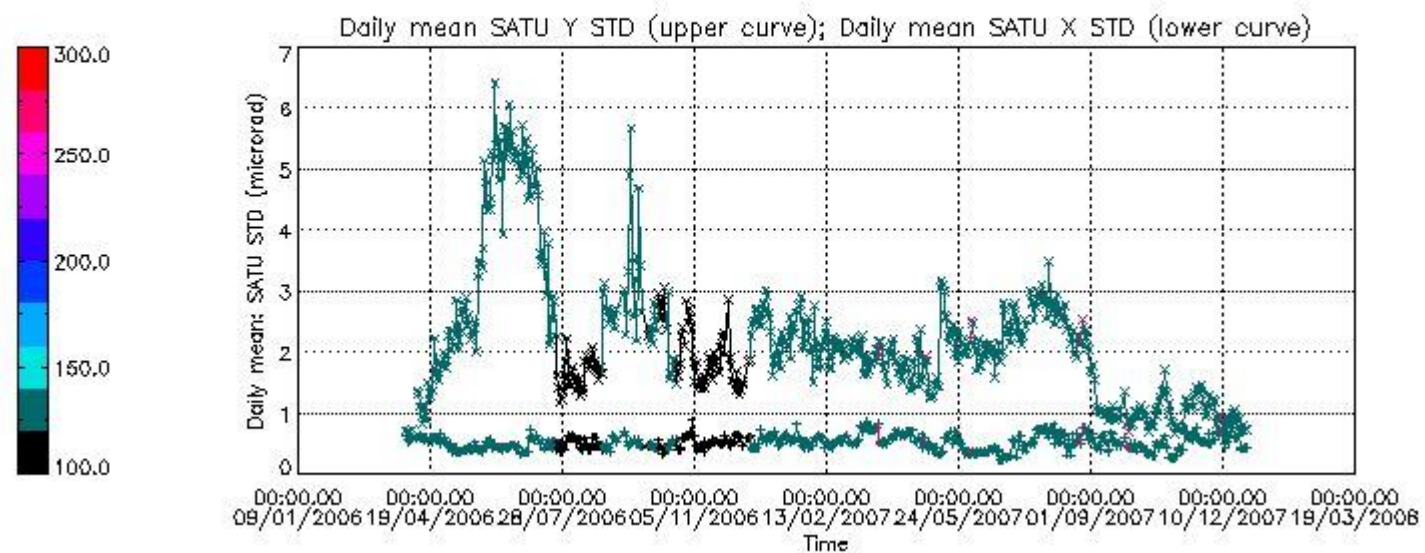
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

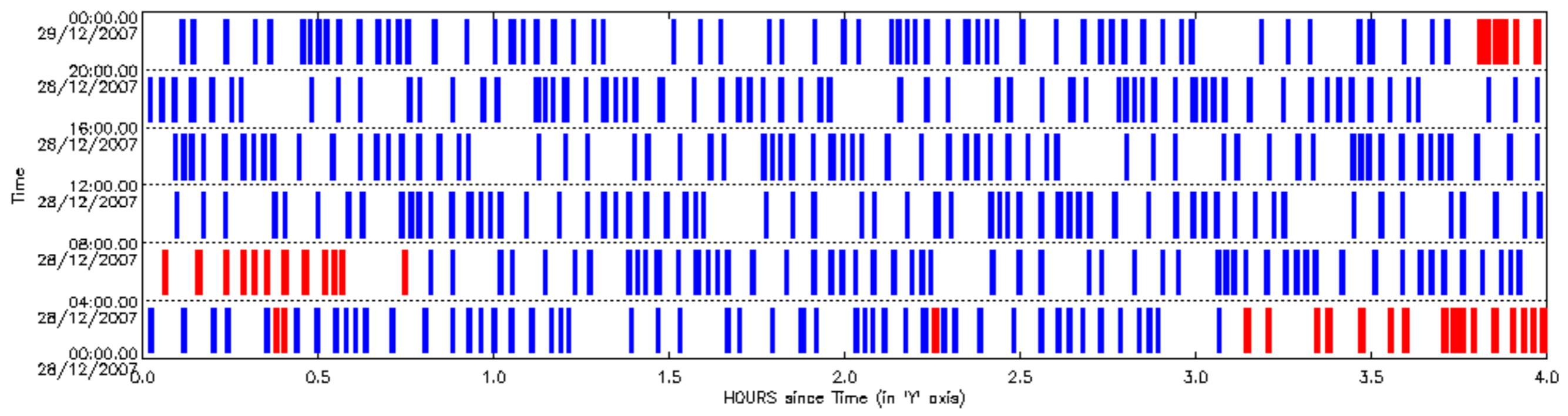
Lower curve: STD of SATU X axis

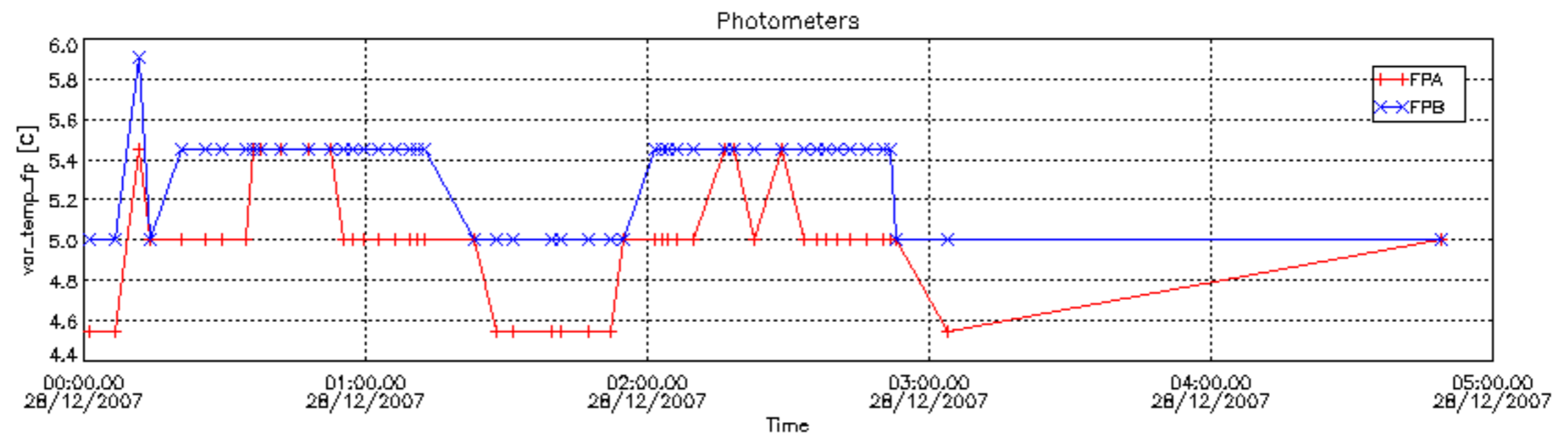
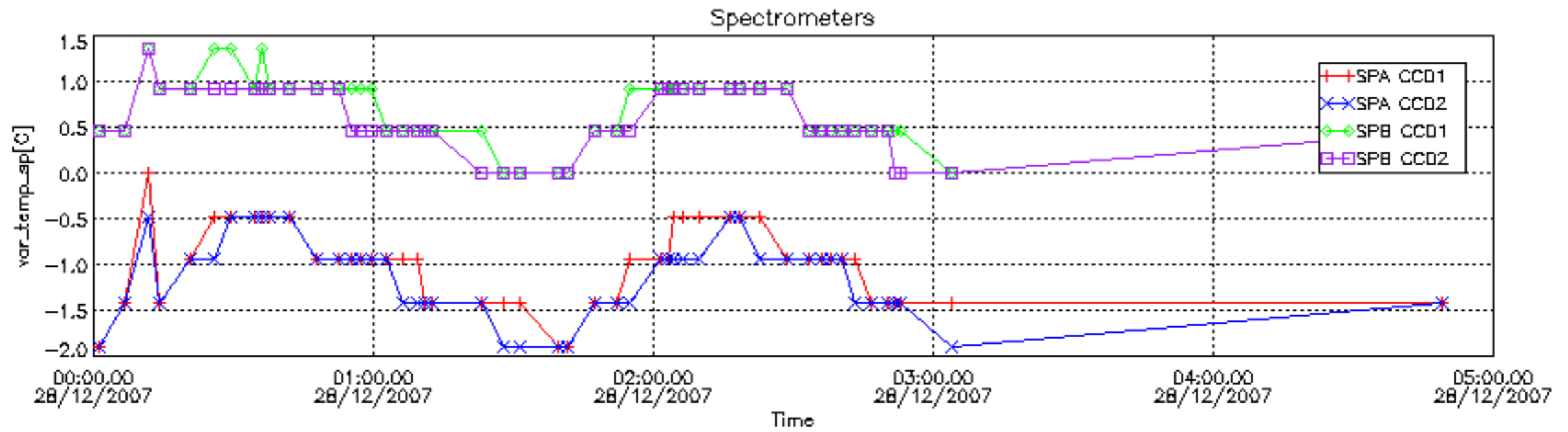


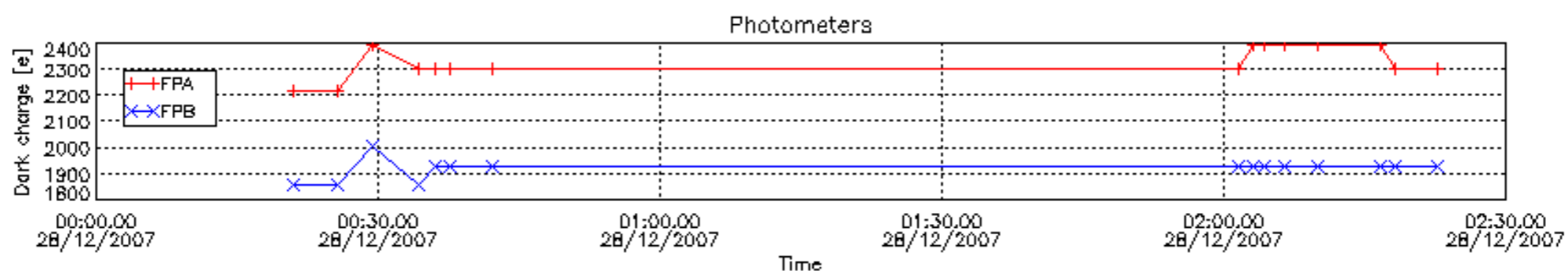
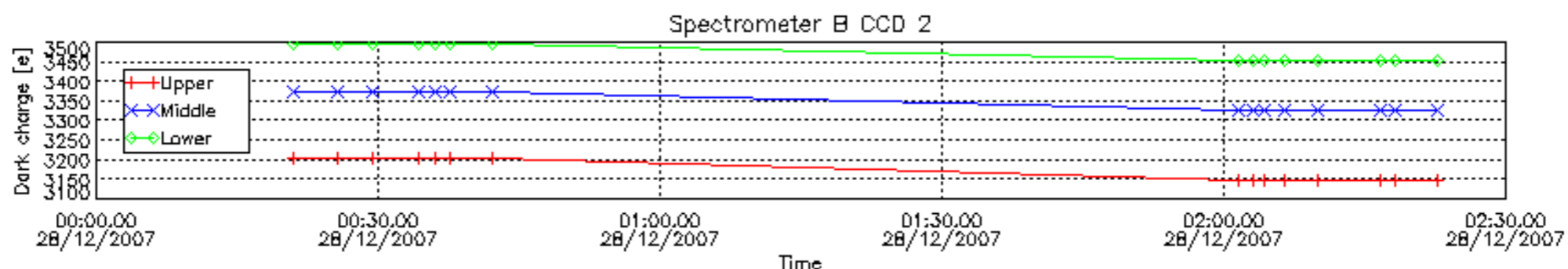
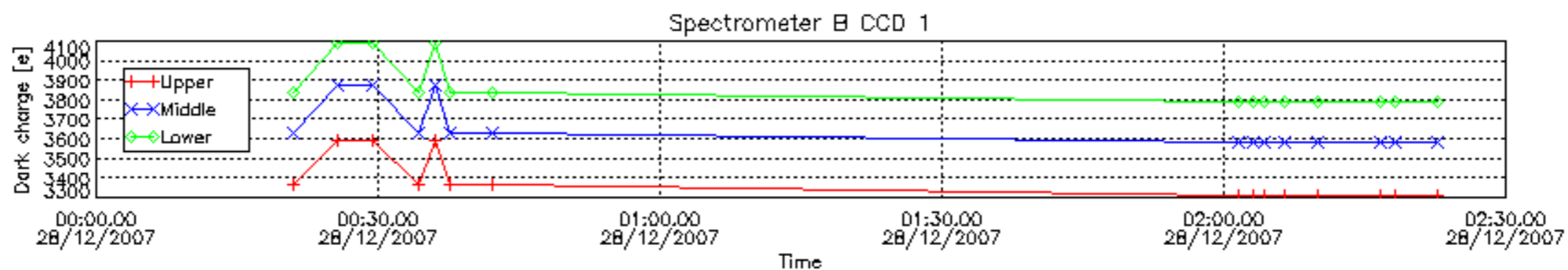
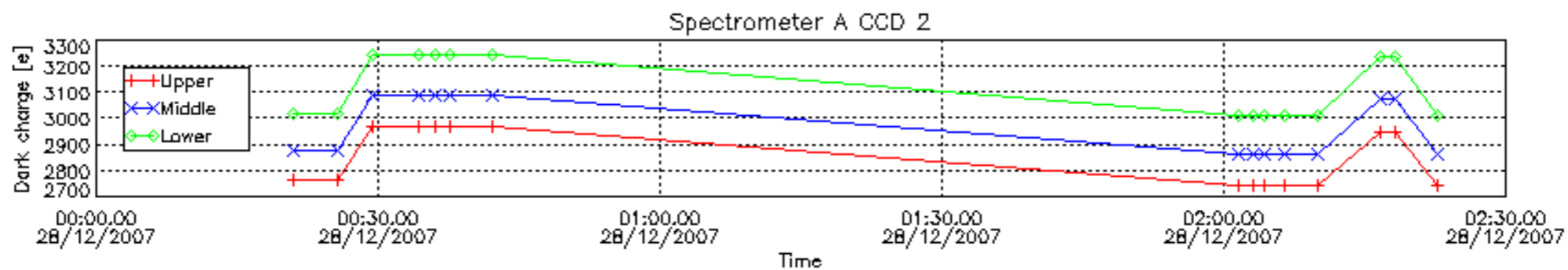
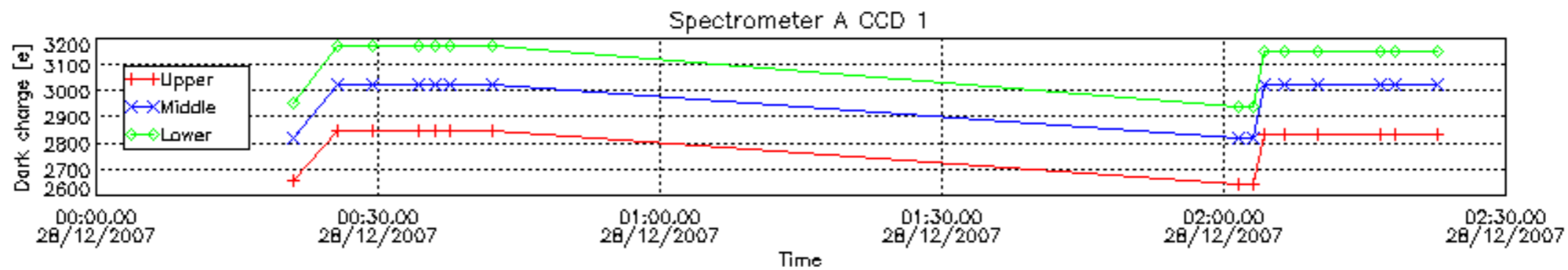
8. Auxiliary Data Files used for the production reported in section 2.4

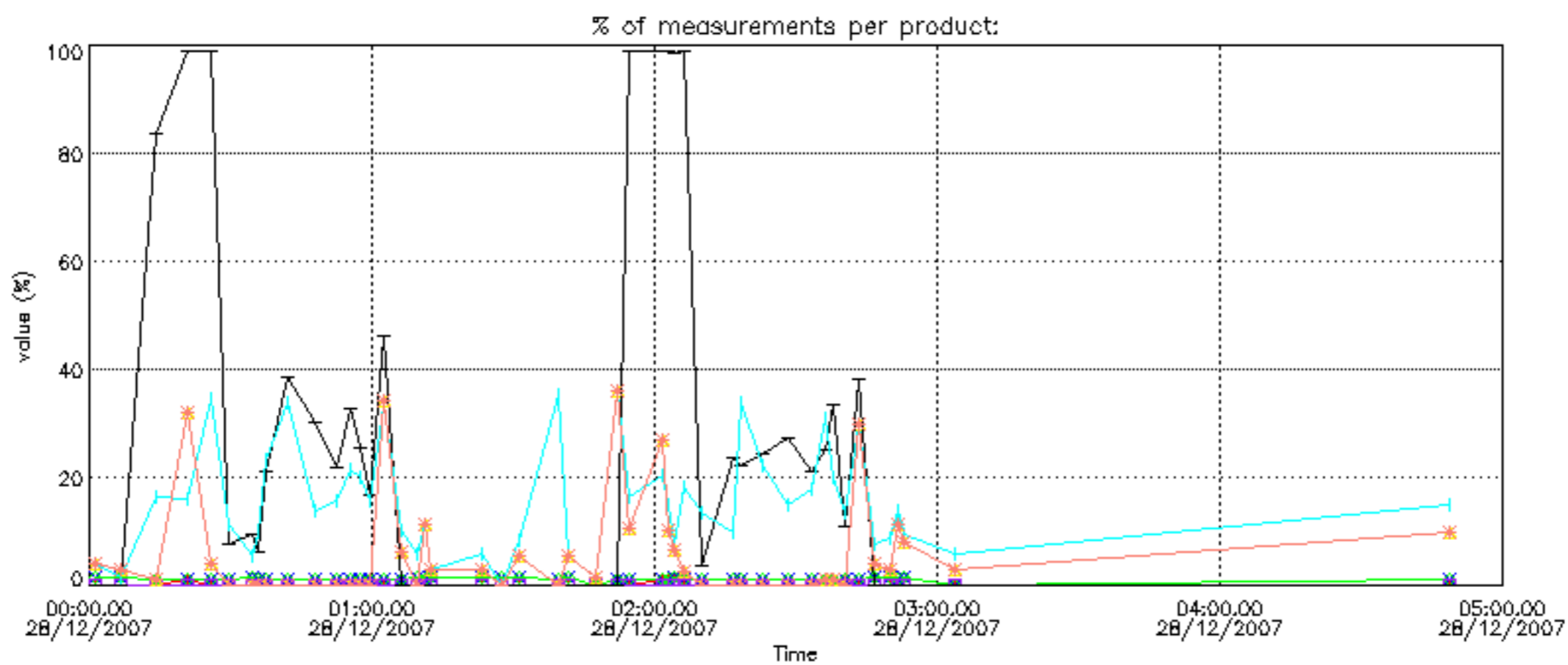
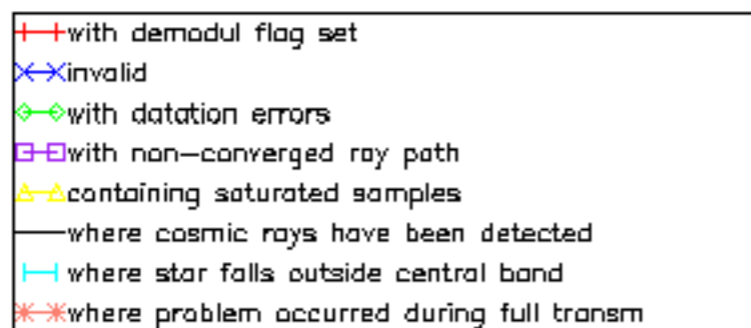
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-DEC-2007 00:01:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	28-DEC-2007 00:01:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-DEC-2007 00:01:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-DEC-2007 00:01:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-DEC-2007 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20071227_073112_20071227_210000_20071228_090000	1	28-DEC-2007 00:01:04
ECMWF_FILE	AUX_ECF_AXNECM20071227_193111_20071228_030000_20071228_150000	49	28-DEC-2007 04:48:54
OPTIONAL_ECMWF_FILE	MISSING	1	28-DEC-2007 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071227_204259_000060572064_00343_30457_4836.N1	1	28-DEC-2007 00:01:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071227_222915_000057382064_00344_30458_4837.N1	3	28-DEC-2007 00:11:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071228_001012_000054192064_00345_30459_4838.N1	28	28-DEC-2007 01:52:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071228_014550_000041442064_00346_30460_4839.N1	49	28-DEC-2007 04:48:54

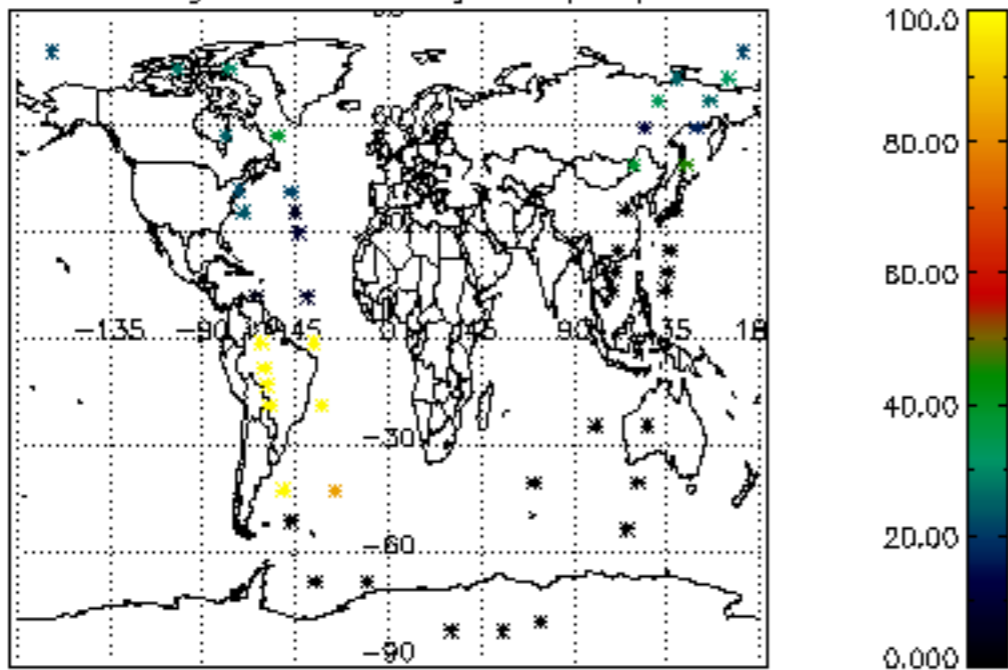




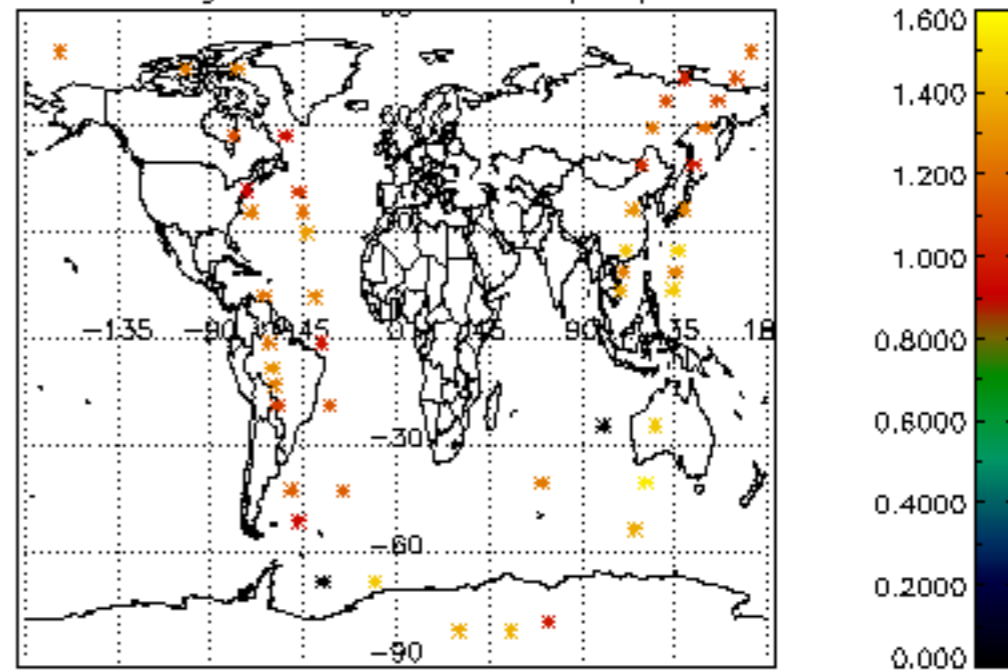




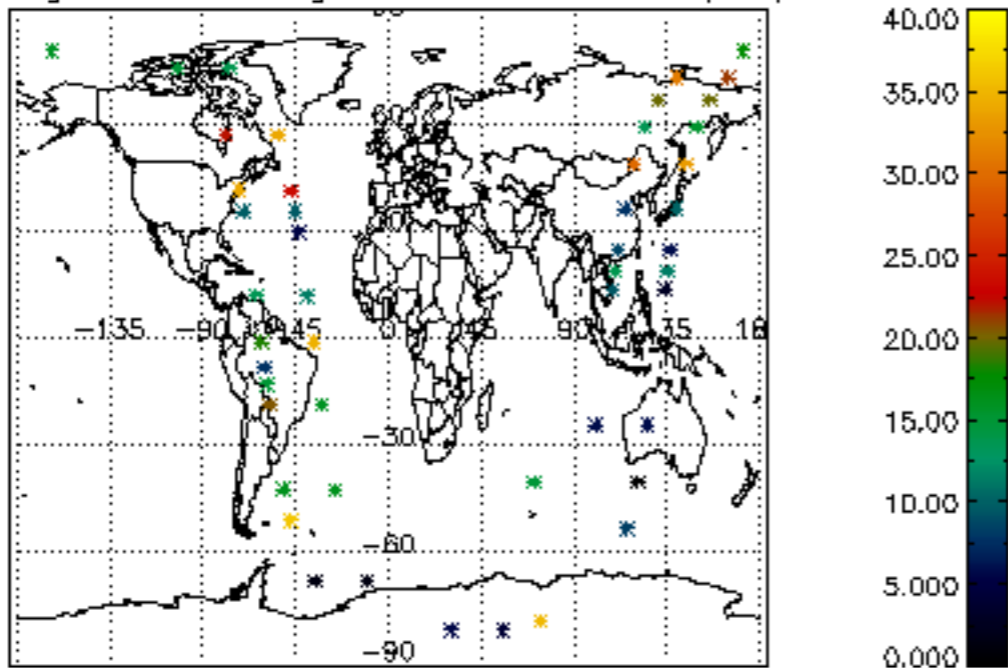
Percentage of cosmic ray hits per profile



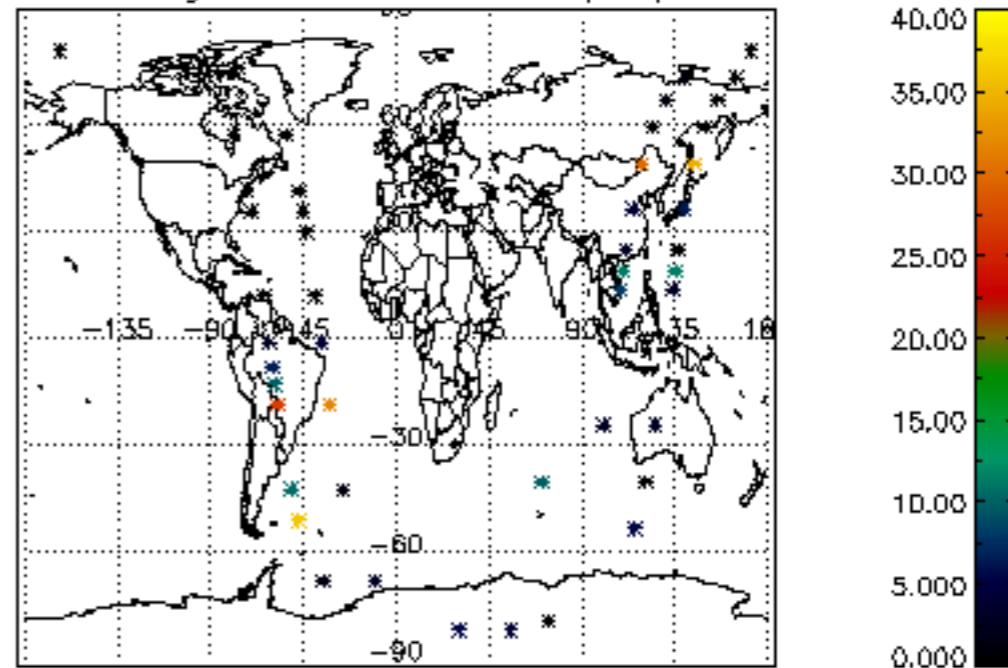
Percentage of datation errors per profile



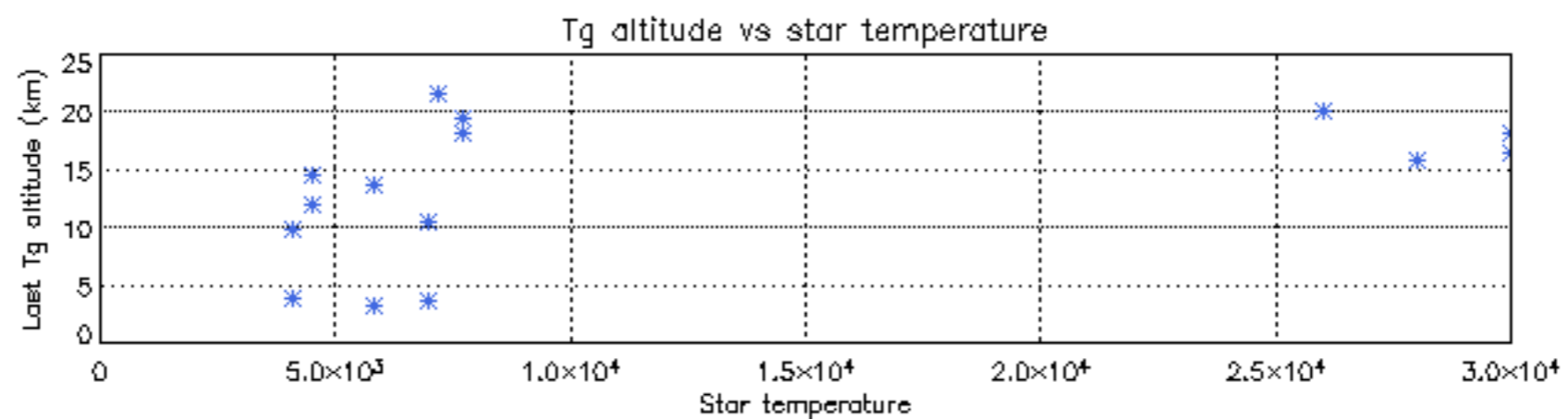
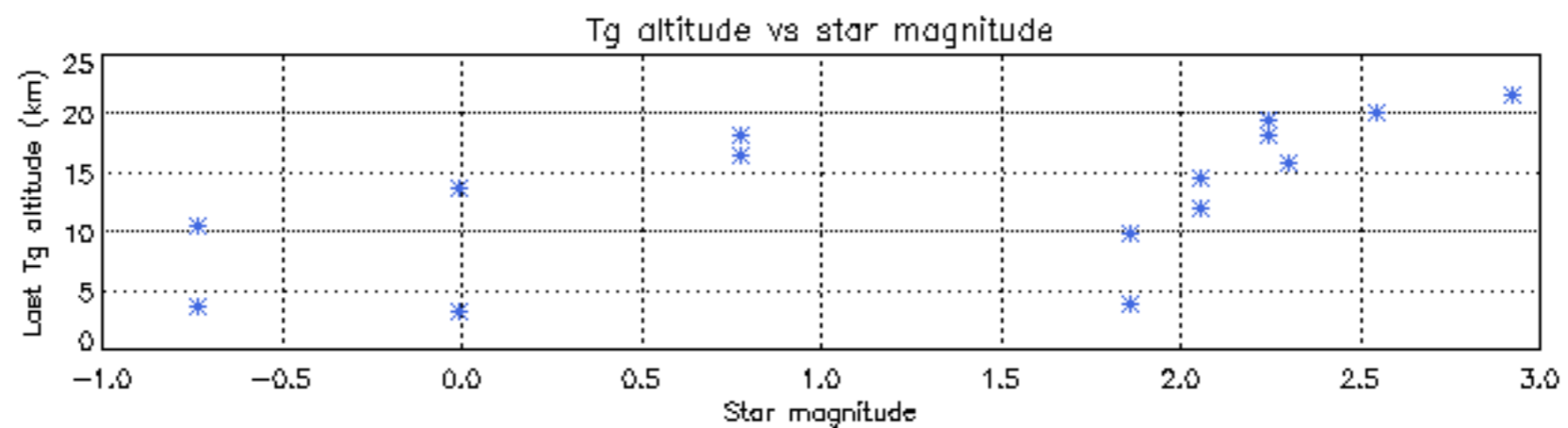
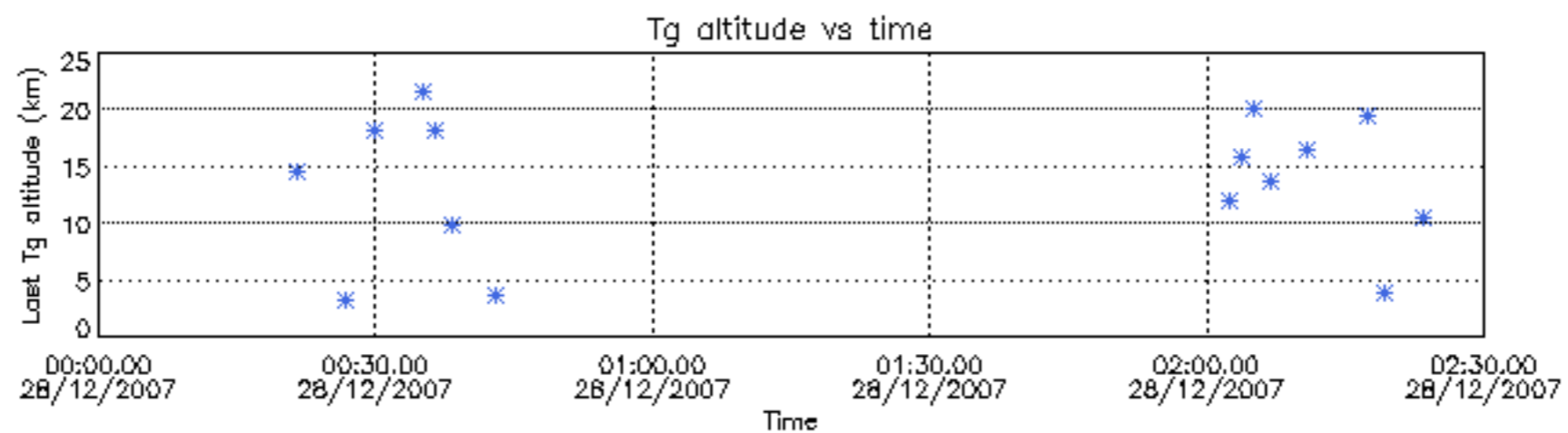
Percentage of star falling outside central band per profile



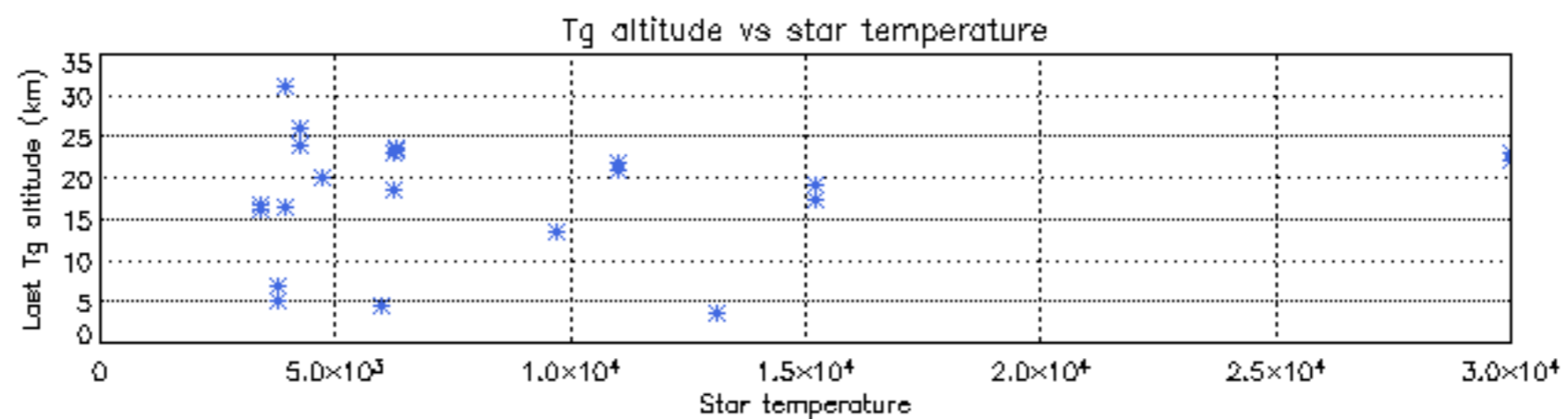
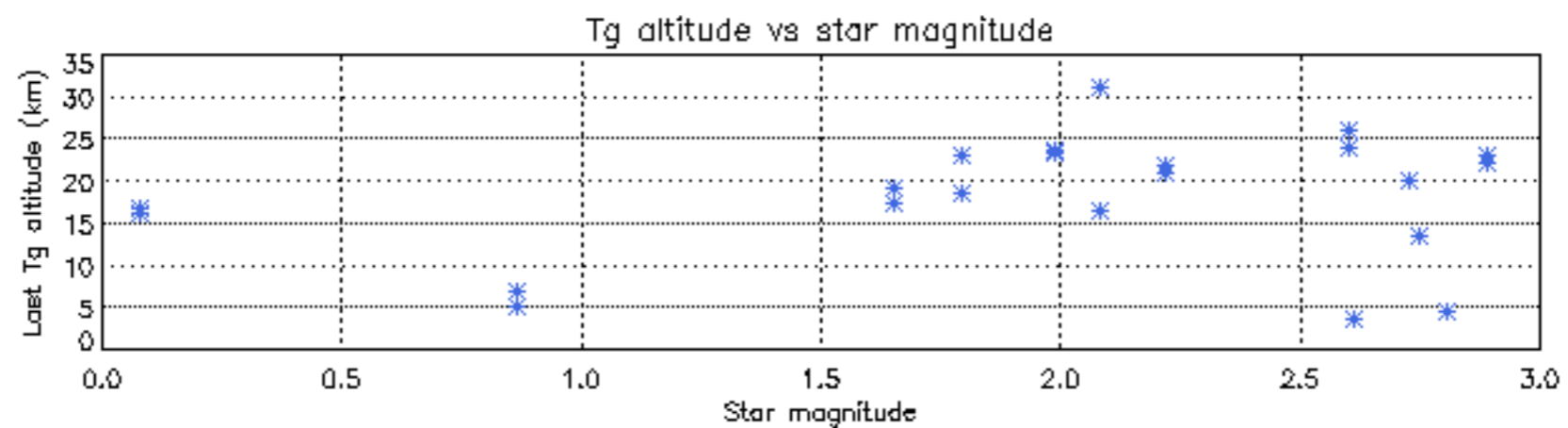
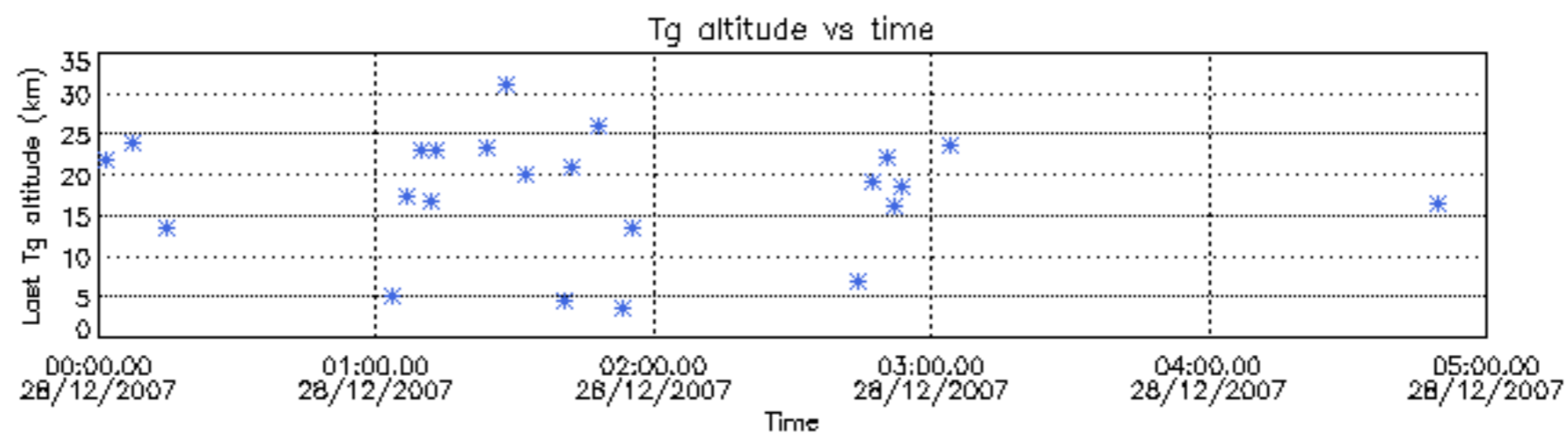
Percentage of saturation errors per profile

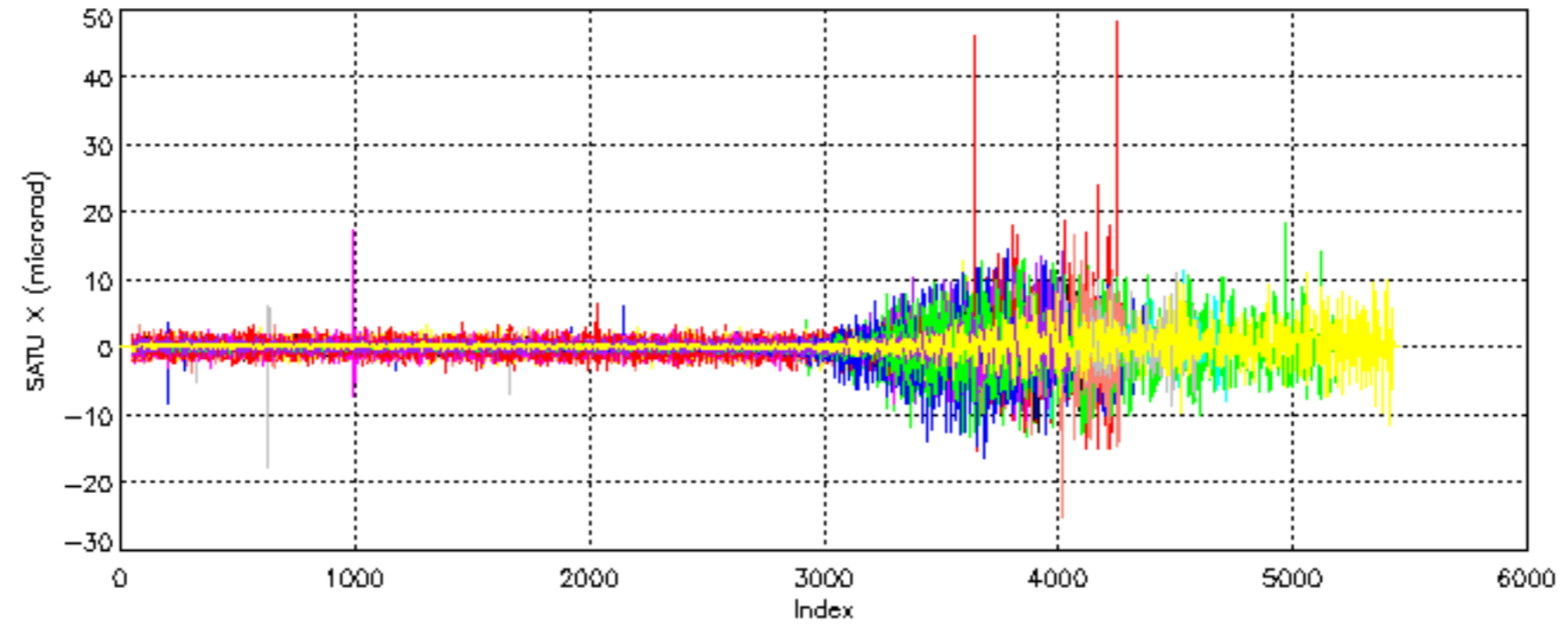


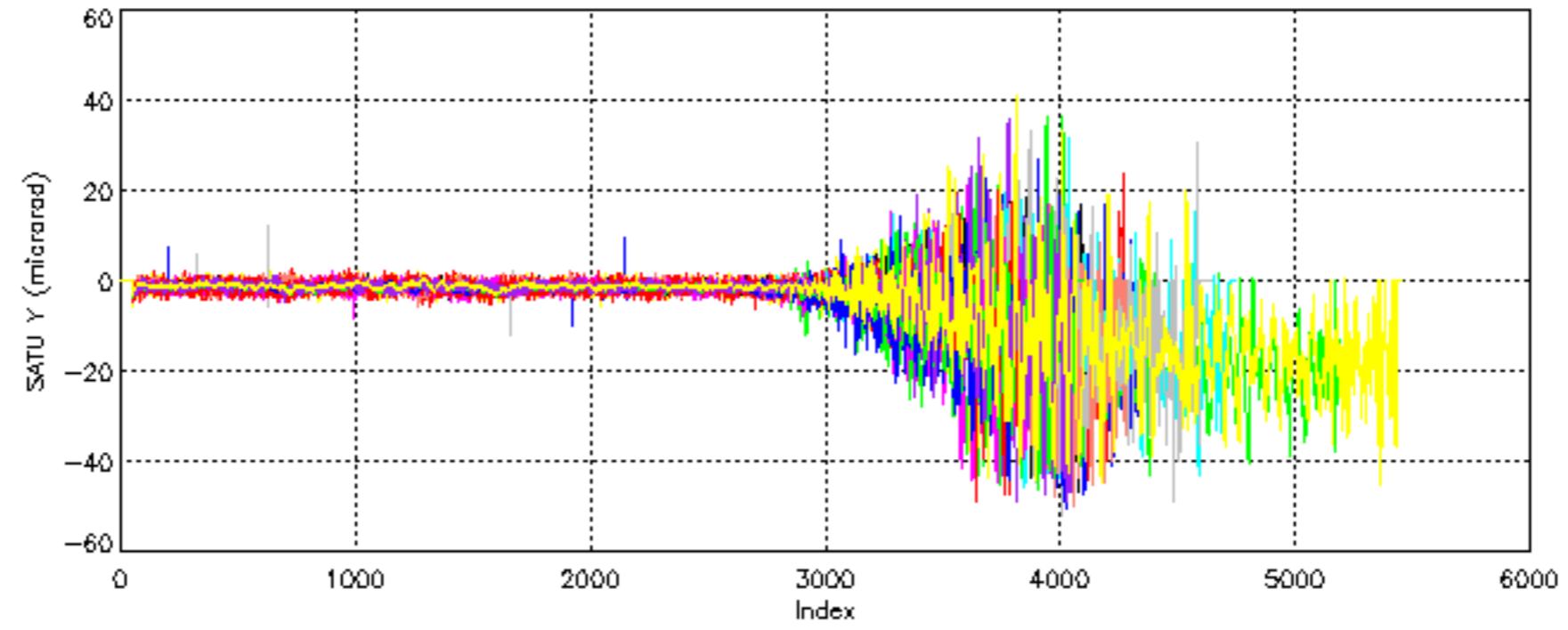
Tangent altitude at which the star is lost

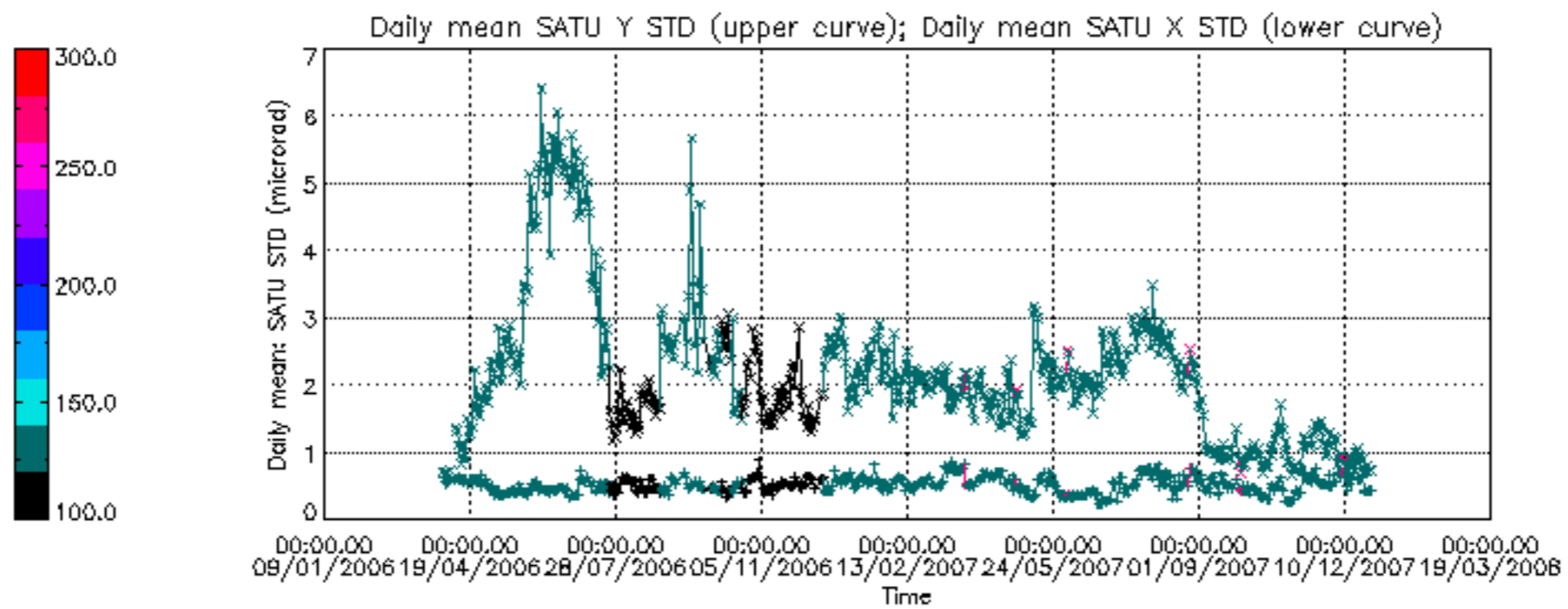


Tangent altitude at which the star is lost









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 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
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 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
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 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
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 3; 1556.3; 11-DEC-2007 18:12:29; Dark ; 46.0; 101; 11Alp Lep ; 2.58; 7000;occ; 92; 0;30227
 4; 1748.4; 11-DEC-2007 18:15:41; Dark ; 55.5; 7; 19Bet Ori ; 0.10; 14000;occ; 111; 0;30227
 5; 2197.6; 11-DEC-2007 18:23:11; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;30227
 6; 2591.6; 11-DEC-2007 18:29:44; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30227
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 8; 3422.0; 11-DEC-2007 18:43:35; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30227
 9; 3705.5; 11-DEC-2007 18:48:18; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30227
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 11; 4140.2; 11-DEC-2007 18:55:33; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;30227
 12; 4331.6; 11-DEC-2007 18:58:44; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;30227
 13; 4519.1; 11-DEC-2007 19:01:52; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30227
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 16; 5490.2; 11-DEC-2007 19:18:03; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;30227
 17; 5618.9; 11-DEC-2007 19:20:12; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;30227
 18; 5936.8; 11-DEC-2007 19:25:30; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30227
 19; 6054.2; 11-DEC-2007 19:27:27; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;30227
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 22; 6563.5; 11-DEC-2007 19:35:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30227
 23; 6763.4; 11-DEC-2007 19:39:16; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;30227
 24; 6913.3; 11-DEC-2007 19:41:46; Dark ; 26.5; 2; Alp Car ; -0.74; 7000;occ; 53; 1;30227

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 5; 95.4; 12-DEC-2007 00:30:32; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30231
 6; 212.9; 12-DEC-2007 00:32:29; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;30231
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 12; 1556.6; 12-DEC-2007 00:54:53; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;30231
 13; 1678.5; 12-DEC-2007 00:56:55; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;30231
 14; 1807.8; 12-DEC-2007 00:59:04; Dark ; 44.0; 128; 67Bet Eri ; 2.78; 9700;occ; 88; 0;30231
 15; 2196.9; 12-DEC-2007 01:05:33; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;30231
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 18; 2819.2; 12-DEC-2007 01:15:56; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;30231
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 21; 3995.2; 12-DEC-2007 01:35:32; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;30231
 22; 4140.0; 12-DEC-2007 01:37:57; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;30231
 23; 4331.7; 12-DEC-2007 01:41:08; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;30231
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 25; 4711.5; 12-DEC-2007 01:47:28; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;30231

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6; 213.8; 12-DEC-2007 02:13:06; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;30232
7; 434.0; 12-DEC-2007 02:16:46; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30232
8; 530.7; 12-DEC-2007 02:18:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30232
9; 730.4; 12-DEC-2007 02:21:43; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;30232
10; 879.0; 12-DEC-2007 02:24:11; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;30232
11; 1247.4; 12-DEC-2007 02:30:20; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;30232
12; 1556.9; 12-DEC-2007 02:35:29; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;30232
13; 1748.3; 12-DEC-2007 02:38:41; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;30232
14; 2196.8; 12-DEC-2007 02:46:09; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;30232
15; 2318.5; 12-DEC-2007 02:48:11; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;30232
16; 2451.2; 12-DEC-2007 02:50:24; Bright; 35.0; 150; 44Zet Per ; 2.89; 28000;occ; 70; 0;30232
17; 2591.2; 12-DEC-2007 02:52:44; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;30232
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19; 2819.3; 12-DEC-2007 02:56:32; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30232
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5;-1515.9; 12-DEC-2007 03:24:52; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30232
6;-1324.0; 12-DEC-2007 03:28:04; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30232
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19; 1557.1; 12-DEC-2007 04:16:05; Dark ; 46.0; 101; 11Alp Lep ; 2.58; 7000;occ; 92; 0;30233
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21; 2196.8; 12-DEC-2007 04:26:45; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;30233
22; 2318.7; 12-DEC-2007 04:28:47; Bright; 35.5; 146; 25Eta Tau ; 2.87; 15200;occ; 71; 0;30233
23; 2451.4; 12-DEC-2007 04:31:00; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30233
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26; 2819.6; 12-DEC-2007 04:37:08; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30233
27; 3422.1; 12-DEC-2007 04:47:11; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30233

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22; 2318.7; 12-DEC-2007 06:09:23; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;30234
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7; 2599.6; 27-DEC-2007 15:05:49; Bright; 33.0; 149; 45Eps Per ; 2.89; 30000;occ; 66; 0;30454
8; 2701.4; 27-DEC-2007 15:07:31; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30454

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 14; 4871.4; 27-DEC-2007 15:43:41; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30454
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 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
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 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
 27; 6995.8; 27-DEC-2007 17:59:41; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;30455

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 29; 6996.0; 27-DEC-2007 19:40:18; Dark ; 5.0; 2; Alp Car ; -0.74; 7000;occ; 10; 0;30456

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 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
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 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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12; 199.0; 28-DEC-2007 05:31:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30463
13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
14; 499.7; 28-DEC-2007 05:36:13; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30463
15; 596.8; 28-DEC-2007 05:37:50; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30463
16; 697.7; 28-DEC-2007 05:39:31; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30463
17; 961.9; 28-DEC-2007 05:43:55; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30463
18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463
19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30463
20; 1762.7; 28-DEC-2007 05:57:16; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;30463
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22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463
24; 2404.4; 28-DEC-2007 06:07:57; Bright; 40.0; 28; 12Bet Tau ; 1.65; 15200;occ; 80; 0;30463
25; 2601.1; 28-DEC-2007 06:11:14; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30463
26; 2700.1; 28-DEC-2007 06:12:53; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;30463
27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463
28; 3423.1; 28-DEC-2007 06:24:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30463

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3; 1590.5; 28-DEC-2007 20:59:47; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30472
4; 1763.6; 28-DEC-2007 21:02:40; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30472
5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472
7; 2194.4; 28-DEC-2007 21:09:51; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30472
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9; 2602.6; 28-DEC-2007 21:16:39; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30472
10; 2698.7; 28-DEC-2007 21:18:15; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30472
11; 3423.0; 28-DEC-2007 21:30:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30472
12; 3695.8; 28-DEC-2007 21:34:52; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30472
13; 3918.9; 28-DEC-2007 21:38:35; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30472
14; 4413.5; 28-DEC-2007 21:46:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30472
15; 4536.7; 28-DEC-2007 21:48:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30472
16; 4876.0; 28-DEC-2007 21:54:33; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30472
17; 5172.5; 28-DEC-2007 21:59:29; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30472
18; 5324.9; 28-DEC-2007 22:02:01; Dark ; 9.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 19; 0;30472

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3; -300.9; 28-DEC-2007 22:08:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30472
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5; -133.7; 28-DEC-2007 22:11:39; Dark ; 38.0; 95; Zet Cen ; 2.55; 26000;occ; 76; 0;30472
6; -15.9; 28-DEC-2007 22:13:37; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;30472
7; 203.9; 28-DEC-2007 22:17:16; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30473
8; 384.6; 28-DEC-2007 22:20:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30473
9; 504.3; 28-DEC-2007 22:22:17; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30473
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11; 702.4; 28-DEC-2007 22:25:35; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30473
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13; 1310.1; 28-DEC-2007 22:35:43; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30473
14; 1590.6; 28-DEC-2007 22:40:23; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30473
15; 1763.7; 28-DEC-2007 22:43:16; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30473
16; 1879.5; 28-DEC-2007 22:45:12; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30473
17; 2012.8; 28-DEC-2007 22:47:25; Dark ; 42.5; 27; 24Gam Ori ; 1.64; 26000;occ; 85; 0;30473
18; 2194.4; 28-DEC-2007 22:50:27; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30473
19; 2402.9; 28-DEC-2007 22:53:55; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30473
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21; 2698.6; 28-DEC-2007 22:58:51; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30473
22; 3423.0; 28-DEC-2007 23:10:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30473
23; 3695.7; 28-DEC-2007 23:15:28; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30473
24; 3919.1; 28-DEC-2007 23:19:12; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30473
25; 4413.6; 28-DEC-2007 23:27:26; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30473
26; 4536.9; 28-DEC-2007 23:29:29; Bright; 54.0; 67; 5Alp CrB ; 2.22; 11000;occ; 108; 0;30473
27; 4876.4; 28-DEC-2007 23:35:09; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30473
28; 5173.0; 28-DEC-2007 23:40:05; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30473
29; 5325.4; 28-DEC-2007 23:42:38; Dark ; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;30473

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3;-1623.9; 28-DEC-2007 06:41:25; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30463
4;-1500.7; 28-DEC-2007 06:43:28; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30463
5;-1162.1; 28-DEC-2007 06:49:07; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30463
6; -866.7; 28-DEC-2007 06:54:02; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30463
7; -715.4; 28-DEC-2007 06:56:34; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;30463
8; -310.0; 28-DEC-2007 07:03:19; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;30463
9; -217.5; 28-DEC-2007 07:04:52; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30463
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13; 382.0; 28-DEC-2007 07:14:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
14; 500.2; 28-DEC-2007 07:16:49; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30464
15; 597.5; 28-DEC-2007 07:18:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30464
16; 698.2; 28-DEC-2007 07:20:07; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;30464
17; 962.2; 28-DEC-2007 07:24:31; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30464
18; 1308.4; 28-DEC-2007 07:30:17; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30464
19; 1589.3; 28-DEC-2007 07:34:58; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;30464

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3; 2012.9; 28-DEC-2007 07:42:02; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30464
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5; 2404.3; 28-DEC-2007 07:48:33; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30464
6; 2601.1; 28-DEC-2007 07:51:50; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30464
7; 2699.9; 28-DEC-2007 07:53:29; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30464
8; 2784.9; 28-DEC-2007 07:54:54; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30464
9; 3423.1; 28-DEC-2007 08:05:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30464
10; 3696.4; 28-DEC-2007 08:10:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30464
11; 3918.4; 28-DEC-2007 08:13:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30464
12; 4411.9; 28-DEC-2007 08:22:01; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30464
13; 4535.4; 28-DEC-2007 08:24:04; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30464
14; 4874.2; 28-DEC-2007 08:29:43; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30464
15; 5169.5; 28-DEC-2007 08:34:39; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;30464
16; 5321.1; 28-DEC-2007 08:37:10; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30464
17; 5726.6; 28-DEC-2007 08:43:56; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30464
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19; 5897.8; 28-DEC-2007 08:46:47; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30464

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 21; 6235.9; 28-DEC-2007 08:52:25; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;30464
 22; 6418.1; 28-DEC-2007 08:55:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
 23; 6536.6; 28-DEC-2007 08:57:26; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30464
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 25; 6734.7; 28-DEC-2007 09:00:44; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30464
 26; 6998.4; 28-DEC-2007 09:05:08; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30464
 27; 7344.4; 28-DEC-2007 09:10:53; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30464
 28; 7625.3; 28-DEC-2007 09:15:34; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;30464
 29; 7798.8; 28-DEC-2007 09:18:28; Dark ; 13.5; 7; 19Bet Ori ; 0.10; 14000;occ; 27; 0;30464

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 13; 4535.6; 28-DEC-2007 10:04:41; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30465
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 15; 5169.9; 28-DEC-2007 10:15:15; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;30465
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 21; 6236.4; 28-DEC-2007 10:33:01; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;30465
 22; 6418.4; 28-DEC-2007 10:36:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30465
 23; 6536.9; 28-DEC-2007 10:38:02; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30465
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 25; 6735.1; 28-DEC-2007 10:41:20; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30465
 26; 6998.7; 28-DEC-2007 10:45:44; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30465
 27; 7344.6; 28-DEC-2007 10:51:30; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30465

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 7; 2601.6; 28-DEC-2007 11:13:02; Bright; 32.5; 149; 45Eps Per ; 2.89; 30000;occ; 65; 0;30466
 8; 2699.6; 28-DEC-2007 11:14:41; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30466
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 11; 3918.6; 28-DEC-2007 11:34:59; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30466
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 13; 4535.8; 28-DEC-2007 11:45:17; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30466
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 19; 5898.9; 28-DEC-2007 12:08:00; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30466
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