

GOMOS Daily Report 24-JAN-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	26JAN2007 05:31:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25JAN2007 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)

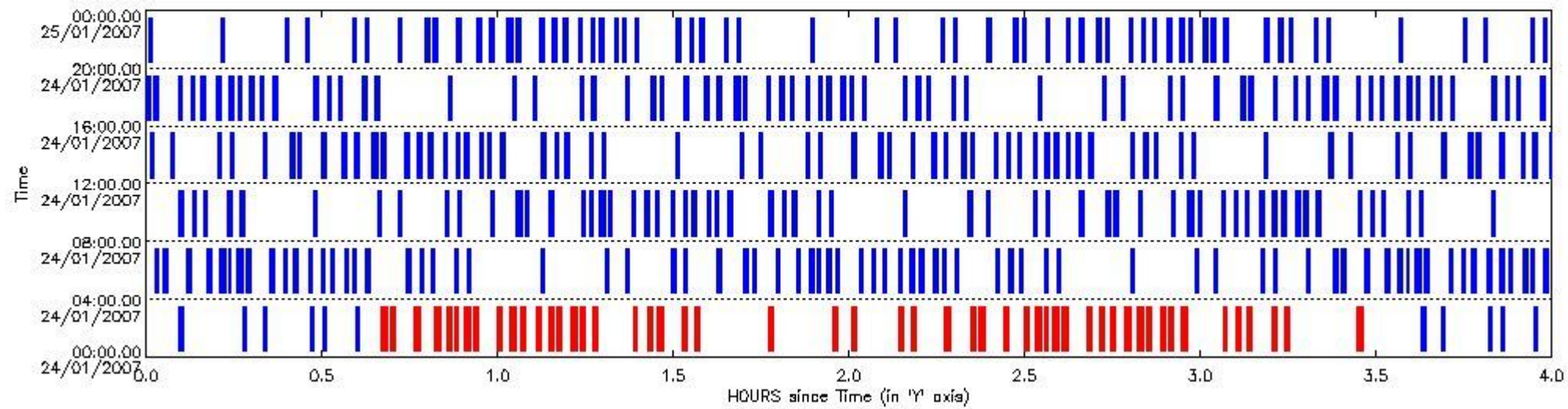
2.1 Level 0 products arrived in PCF (see template [here](#))

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
24-JAN-2007 00:40:08	21AlpSco	16	25621
24-JAN-2007 00:41:36	26EpsSco	75	25621
24-JAN-2007 00:45:41	GamLup	131	25621
24-JAN-2007 00:49:10	AlpLup	78	25622
24-JAN-2007 00:51:17	Alp1Cen	4	25622
24-JAN-2007 00:52:44	EpsCen	77	25622
24-JAN-2007 00:54:15	DSA1028	0	25622
24-JAN-2007 00:55:50	Alp1Cru	12	25622
24-JAN-2007 00:59:56	BetCar	29	25622
24-JAN-2007 01:02:05	lotCar	71	25622
24-JAN-2007 01:03:54	DelVel	46	25622
24-JAN-2007 01:06:31	Gam2Vel	34	25622
24-JAN-2007 01:08:38	ZetPup	70	25622
24-JAN-2007 01:10:08	PiPup	117	25622
24-JAN-2007 01:12:37	21EpsCMa	23	25622

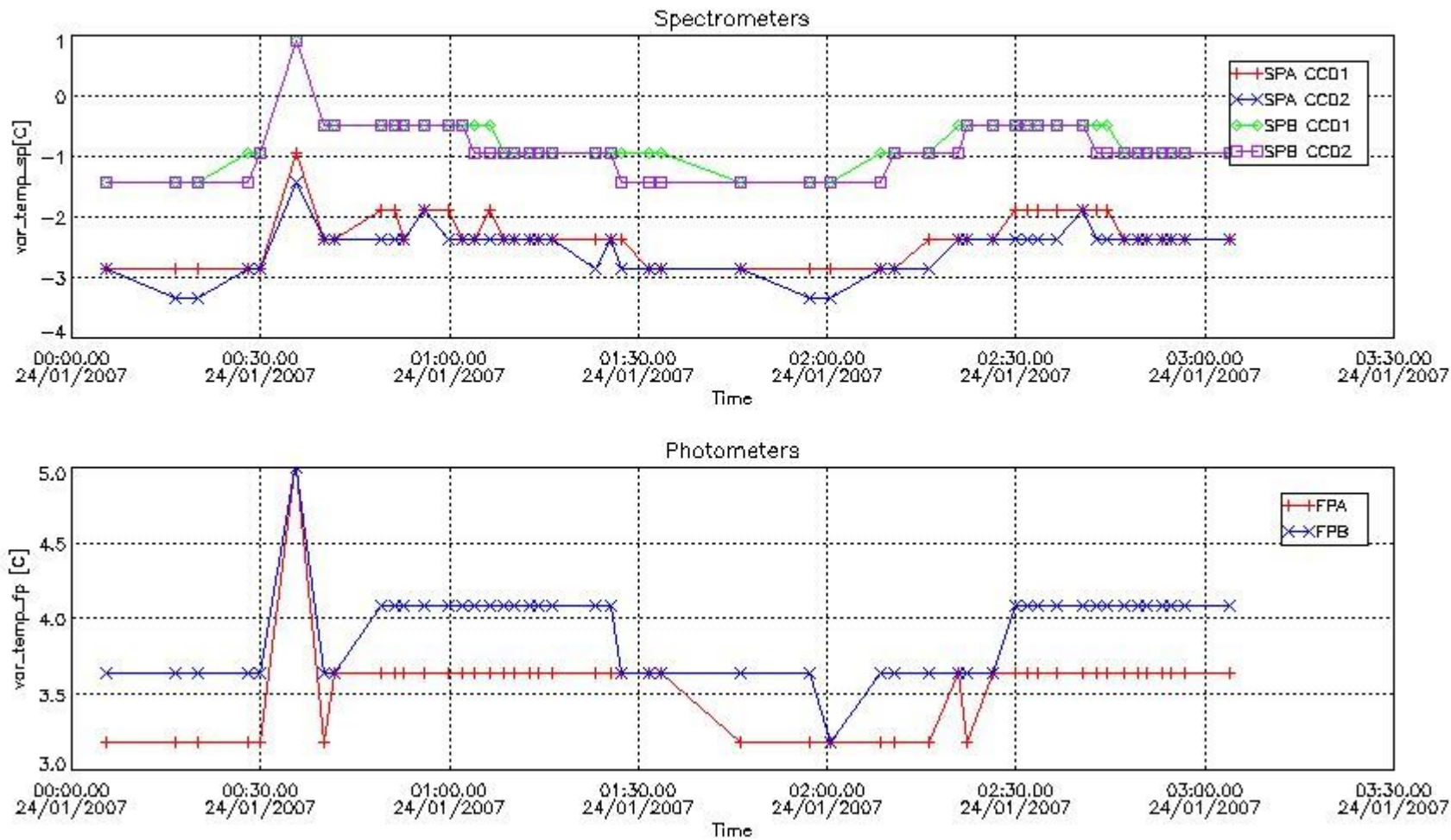
24-JAN-2007 01:14:00	24Omi2CMa	179	25622
24-JAN-2007 01:16:10	9AlpCMa	1	25622
24-JAN-2007 01:23:13	3BetCMi	153	25622
24-JAN-2007 01:25:31	24GamGem	44	25622
24-JAN-2007 01:27:17	13MuGem	151	25622
24-JAN-2007 01:31:31	37TheAur	107	25622
24-JAN-2007 01:33:39	34BetAur	42	25622
24-JAN-2007 01:46:10	1AlpUMi	49	25622
24-JAN-2007 01:57:08	23BetDra	130	25622
24-JAN-2007 02:00:30	3AlpLyr	5	25622
24-JAN-2007 02:08:31	55AlpOph	59	25622
24-JAN-2007 02:10:37	60BetOph	126	25622
24-JAN-2007 02:16:14	13ZetOph	98	25622
24-JAN-2007 02:20:45	21AlpSco	16	25622
24-JAN-2007 02:22:12	26EpsSco	75	25622
24-JAN-2007 02:26:17	GamLup	131	25622
24-JAN-2007 02:29:46	AlpLup	78	25623
24-JAN-2007 02:31:53	Alp1Cen	4	25623
24-JAN-2007 02:33:20	EpsCen	77	25623
24-JAN-2007 02:34:51	DSA1028	0	25623
24-JAN-2007 02:36:26	Alp1Cru	12	25623
24-JAN-2007 02:40:32	BetCar	29	25623
24-JAN-2007 02:42:42	lotCar	71	25623
24-JAN-2007 02:44:31	DelVel	46	25623
24-JAN-2007 02:47:08	Gam2Vel	34	25623
24-JAN-2007 02:49:14	ZetPup	70	25623
24-JAN-2007 02:50:45	PiPup	117	25623
24-JAN-2007 02:53:13	21EpsCMa	23	25623
24-JAN-2007 02:54:36	24Omi2CMa	179	25623
24-JAN-2007 02:56:46	9AlpCMa	1	25623
24-JAN-2007 03:03:49	3BetCMi	153	25623
24-JAN-2007 03:06:07	24GamGem	44	25623
24-JAN-2007 03:07:53	13MuGem	151	25623
24-JAN-2007 03:12:07	37TheAur	107	25623
24-JAN-2007 03:14:15	34BetAur	42	25623
24-JAN-2007 03:26:46	1AlpUMi	49	25623

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_1PNPDE20070124_000536_000000362055_00016_25621_1450.N1	24-JAN-2007 00:05:36	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25621	No
2	GOM_TRA_1PNPDE20070124_001635_000000352055_00016_25621_1451.N1	24-JAN-2007 00:16:35	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	25621	No
3	GOM_TRA_1PNPDE20070124_001956_000000332055_00016_25621_1452.N1	24-JAN-2007 00:19:56	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	25621	No
4	GOM_TRA_1PNPDE20070124_002757_000000342055_00016_25621_1453.N1	24-JAN-2007 00:27:57	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25621	No
5	GOM_TRA_1PNPDE20070124_003003_000000332055_00016_25621_1454.N1	24-JAN-2007 00:30:03	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25621	No
6	GOM_TRA_1PNPDE20070124_003540_000000442055_00016_25621_1588.N1	24-JAN-2007 00:35:40	Twilight	44.000	98	13Zet Oph	2.5710	30000.	88	25621	Yes
7	GOM_TRA_1PNPDE20070124_004010_000000562055_00016_25621_1589.N1	24-JAN-2007 00:40:10	Twilight	55.500	16	21Alp Sco	1.0200	3000.0	111	25621	No
8	GOM_TRA_1PNPDE20070124_004137_000000452055_00016_25621_1590.N1	24-JAN-2007 00:41:37	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	25621	No
9	GOM_TRA_1PNPDE20070124_004912_000000422055_00017_25622_1591.N1	24-JAN-2007 00:49:12	Dark	42.000	78	Alp Lup	2.3040	28000.	84	25622	No
10	GOM_TRA_1PNPDE20070124_005119_000000442055_00017_25622_1592.N1	24-JAN-2007 00:51:19	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	25622	No
11	GOM_TRA_1PNPDE20070124_005245_000000322055_00017_25622_1593.N1	24-JAN-2007 00:52:45	Dark	32.000	77	Eps Cen	2.3030	28000.	64	25622	No
12	GOM_TRA_1PNPDE20070124_005551_000000402055_00017_25622_1594.N1	24-JAN-2007 00:55:51	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25622	No
13	GOM_TRA_1PNPDE20070124_005957_000000422055_00017_25622_1595.N1	24-JAN-2007 00:59:57	Dark	41.500	29	Bet Car	1.6720	10200.	83	25622	No
14	GOM_TRA_1PNPDE20070124_010207_000000402055_00017_25622_1596.N1	24-JAN-2007 01:02:07	Dark	39.500	71	lot Car	2.2460	7700.0	79	25622	No
15	GOM_TRA_1PNPDE20070124_010356_000000432055_00017_25622_1597.N1	24-JAN-2007 01:03:56	Dark	42.500	46	Del Vel	1.9540	10600.	85	25622	No
16	GOM_TRA_1PNPDE20070124_010633_000000402055_00017_25622_1598.N1	24-JAN-2007 01:06:33	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	25622	No
17	GOM_TRA_1PNPDE20070124_010840_000000402055_00017_25622_1599.N1	24-JAN-2007 01:08:40	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25622	No
18	GOM_TRA_1PNPDE20070124_011010_000000452055_00017_25622_1600.N1	24-JAN-2007 01:10:10	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	25622	No

19	GOM_TRA_1PNPDE20070124_011239_000000392055_00017_25622_1601.N1	24-JAN-2007 01:12:39	Straylight	39.000	23	21Eps CMa	1.5020	26000.	78	25622	No
20	GOM_TRA_1PNPDE20070124_011402_000000382055_00017_25622_1602.N1	24-JAN-2007 01:14:02	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25622	No
21	GOM_TRA_1PNPDE20070124_011612_000000452055_00017_25622_1603.N1	24-JAN-2007 01:16:12	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	25622	No
22	GOM_TRA_1PNPDE20070124_012314_000000392055_00017_25622_1604.N1	24-JAN-2007 01:23:14	Tw_i_and_stray	39.000	153	3Bet CMi	2.8940	13100.	78	25622	No
23	GOM_TRA_1PNPDE20070124_012533_000000392055_00017_25622_1605.N1	24-JAN-2007 01:25:33	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	25622	No
24	GOM_TRA_1PNPDE20070124_012719_000000382055_00017_25622_1606.N1	24-JAN-2007 01:27:19	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25622	No
25	GOM_TRA_1PNPDE20070124_013132_000000362055_00017_25622_1607.N1	24-JAN-2007 01:31:32	Bright	36.000	107	37The Aur	2.6490	11000.	72	25622	No
26	GOM_TRA_1PNPDE20070124_013341_000000372055_00017_25622_1608.N1	24-JAN-2007 01:33:41	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	25622	No
27	GOM_TRA_1PNPDE20070124_014612_000000332055_00017_25622_1609.N1	24-JAN-2007 01:46:12	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25622	No
28	GOM_TRA_1PNPDE20070124_015710_000000362055_00017_25622_1610.N1	24-JAN-2007 01:57:10	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	25622	No
29	GOM_TRA_1PNPDE20070124_020032_000000332055_00017_25622_1611.N1	24-JAN-2007 02:00:32	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	25622	No
30	GOM_TRA_1PNPDE20070124_020833_000000342055_00017_25622_1612.N1	24-JAN-2007 02:08:33	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	25622	No
31	GOM_TRA_1PNPDE20070124_021039_000000332055_00017_25622_1613.N1	24-JAN-2007 02:10:39	Bright	32.500	126	60Bet Oph	2.7700	4250.0	65	25622	No
32	GOM_TRA_1PNPDE20070124_021616_000000432055_00017_25622_1728.N1	24-JAN-2007 02:16:16	Tw_i_and_stray	42.500	98	13Zet Oph	2.5710	30000.	85	25622	No
33	GOM_TRA_1PNPDE20070124_022047_000000492055_00017_25622_1729.N1	24-JAN-2007 02:20:47	Twilight	48.500	16	21Alp Sco	1.0200	3000.0	97	25622	No
34	GOM_TRA_1PNPDE20070124_022214_000000412055_00017_25622_1730.N1	24-JAN-2007 02:22:14	Dark	40.500	75	26Eps Sco	2.2910	4250.0	81	25622	No
35	GOM_TRA_1PNPDE20070124_022619_000000412055_00017_25622_1731.N1	24-JAN-2007 02:26:19	Dark	41.000	131	Gam Lup	2.8000	26000.	82	25622	No
36	GOM_TRA_1PNPDE20070124_022948_000000442055_00018_25623_1732.N1	24-JAN-2007 02:29:48	Dark	44.000	78	Alp Lup	2.3040	28000.	88	25623	No
37	GOM_TRA_1PNPDE20070124_023155_000000412055_00018_25623_1733.N1	24-JAN-2007 02:31:55	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	25623	No
38	GOM_TRA_1PNPDE20070124_023322_000000322055_00018_25623_1734.N1	24-JAN-2007 02:33:22	Dark	32.000	77	Eps Cen	2.3030	28000.	64	25623	No
39	GOM_TRA_1PNPDE20070124_023628_000000402055_00018_25623_1735.N1	24-JAN-2007 02:36:28	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25623	No
40	GOM_TRA_1PNPDE20070124_024034_000000462055_00018_25623_1736.N1	24-JAN-2007 02:40:34	Dark	45.500	29	Bet Car	1.6720	10200.	91	25623	No
41	GOM_TRA_1PNPDE20070124_024244_000000392055_00018_25623_1737.N1	24-JAN-2007 02:42:44	Dark	38.500	71	lot Car	2.2460	7700.0	77	25623	No
42	GOM_TRA_1PNPDE20070124_024432_000000402055_00018_25623_1738.N1	24-JAN-2007 02:44:32	Dark	40.000	46	Del Vel	1.9540	10600.	80	25623	No
43	GOM_TRA_1PNPDE20070124_024709_000000402055_00018_25623_1739.N1	24-JAN-2007 02:47:09	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	25623	No
44	GOM_TRA_1PNPDE20070124_024916_000000412055_00018_25623_1740.N1	24-JAN-2007 02:49:16	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	25623	No
45	GOM_TRA_1PNPDE20070124_025046_000000472055_00018_25623_1741.N1	24-JAN-2007 02:50:46	Straylight	46.500	117	Pi Pup	2.7060	3800.0	93	25623	No
46	GOM_TRA_1PNPDE20070124_025315_000000412055_00018_25623_1742.N1	24-JAN-2007 02:53:15	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25623	No
47	GOM_TRA_1PNPDE20070124_025438_000000382055_00018_25623_1743.N1	24-JAN-2007 02:54:38	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25623	No
48	GOM_TRA_1PNPDE20070124_025648_000000452055_00018_25623_1744.N1	24-JAN-2007 02:56:48	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25623	No
49	GOM_TRA_1PNPDE20070124_030350_000000392055_00018_25623_1745.N1	24-JAN-2007 03:03:50	Tw_i_and_stray	39.000	153	3Bet CMi	2.8940	13100.	78	25623	No

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



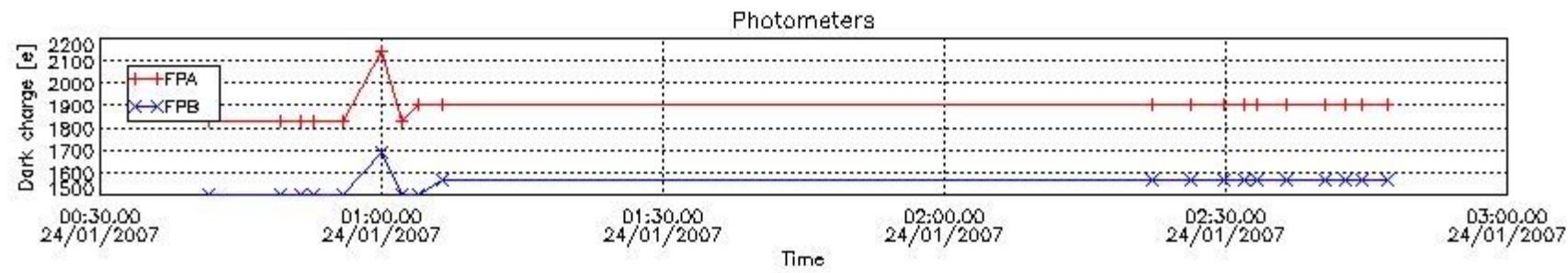
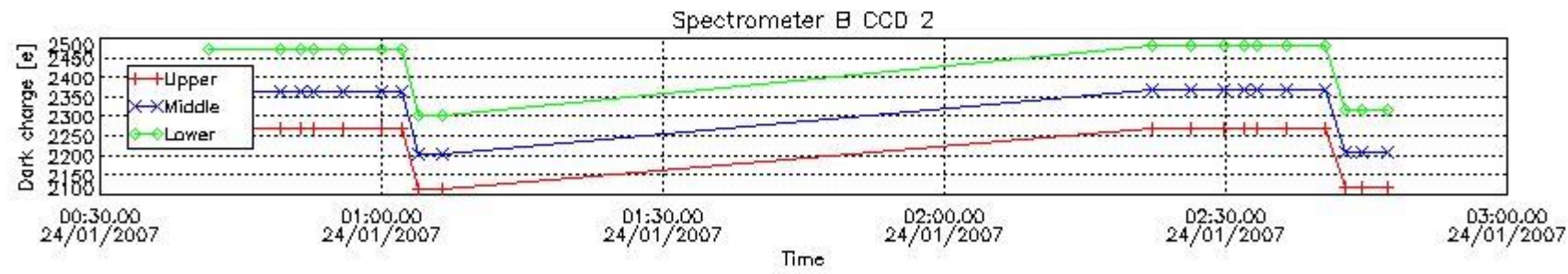
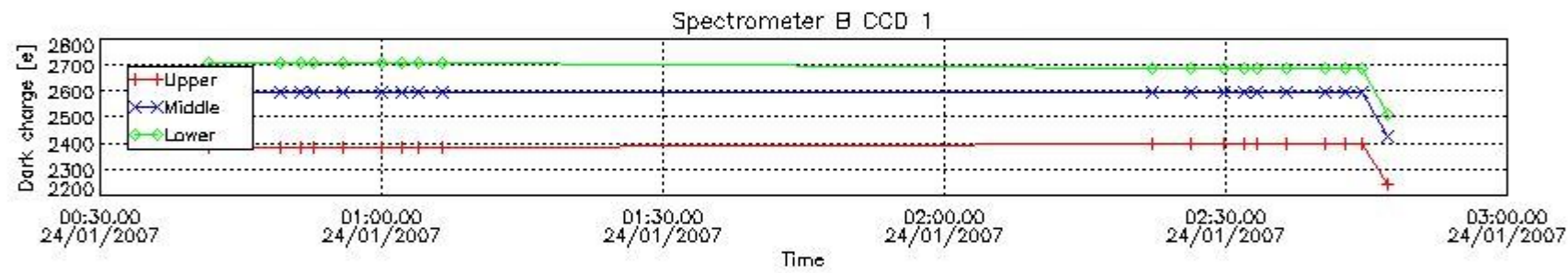
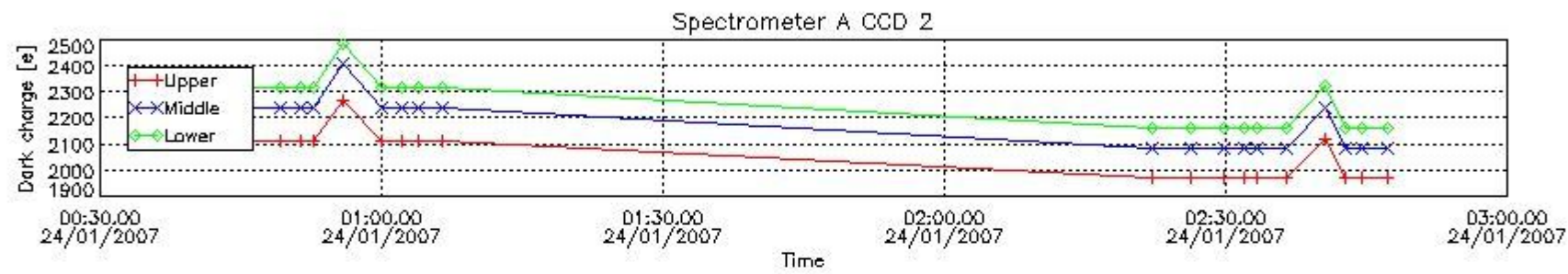
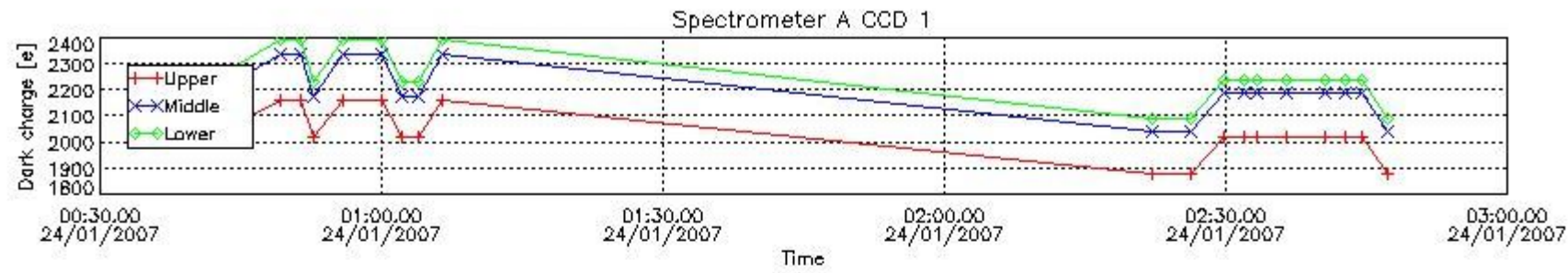
4. Overview of dark signal processing per product

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



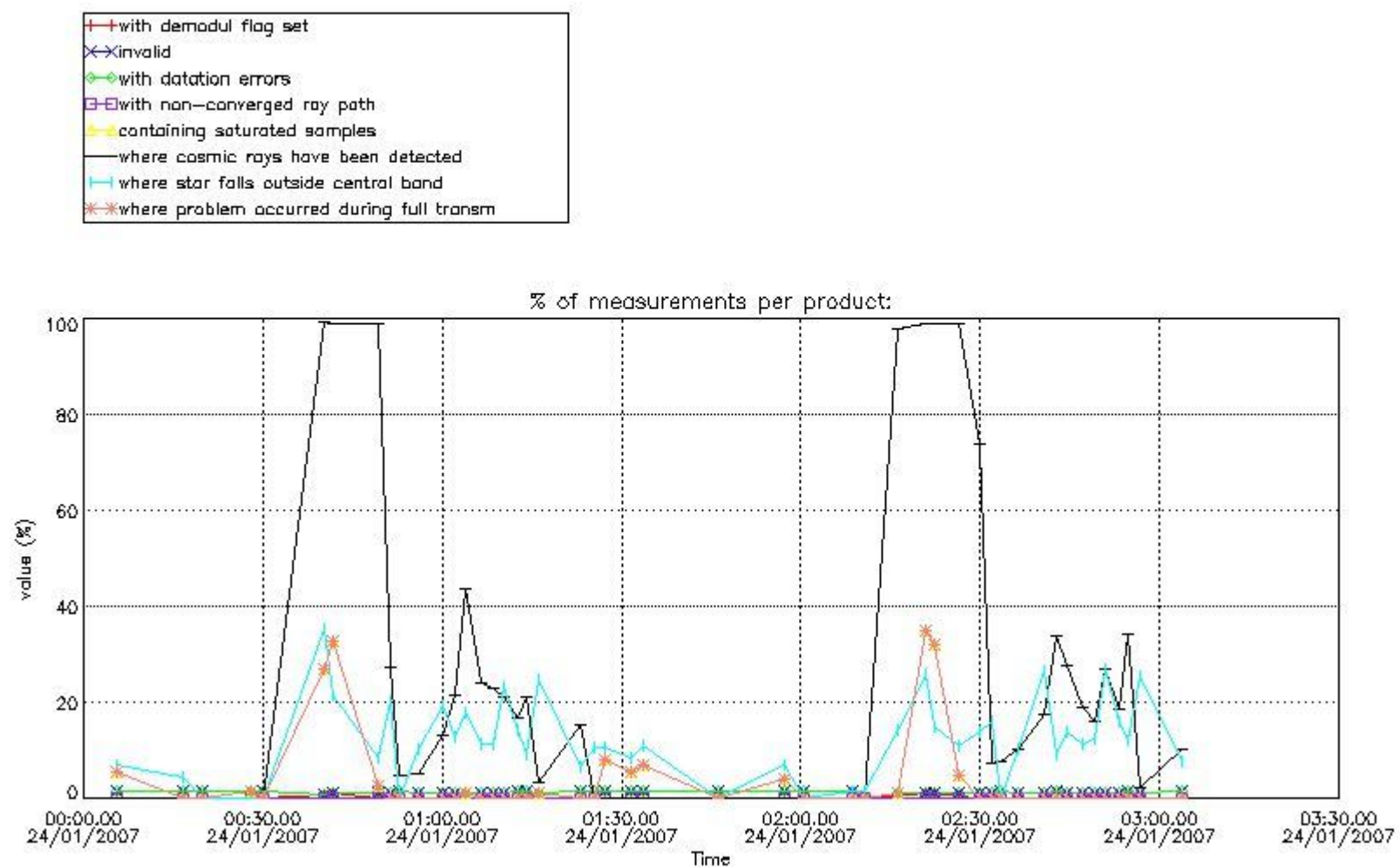
5. Demodulation flag and quality information monitoring

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.

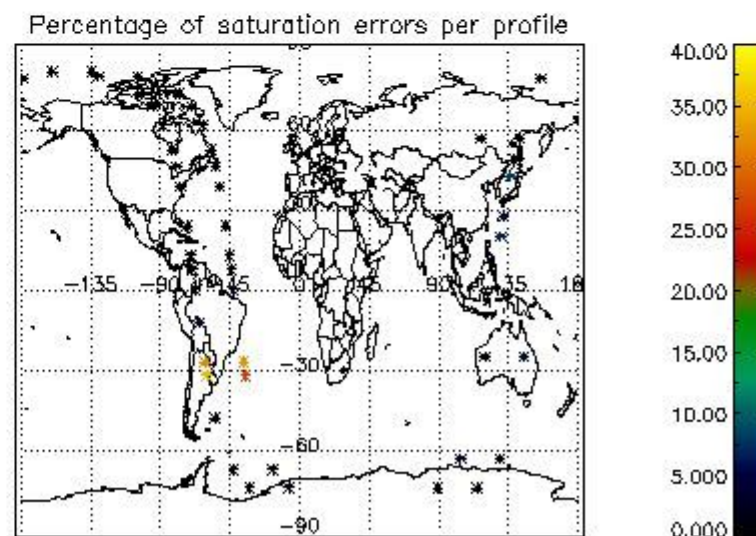
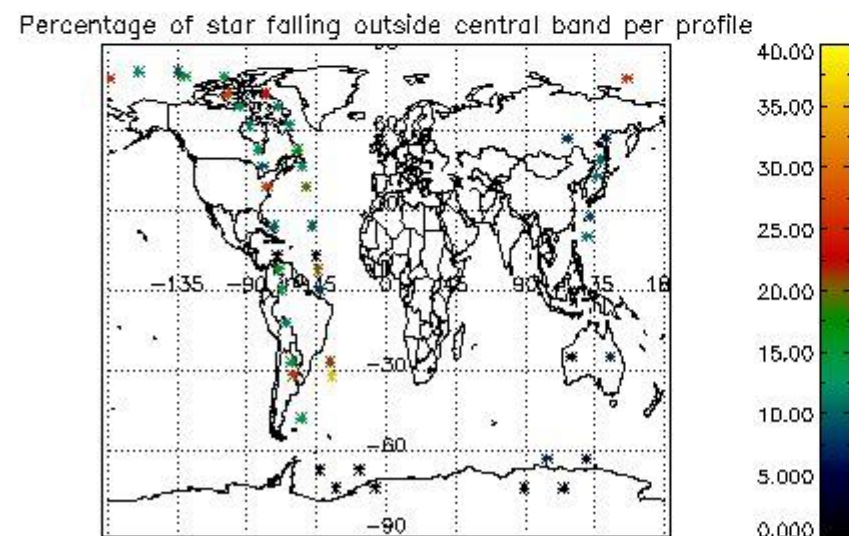
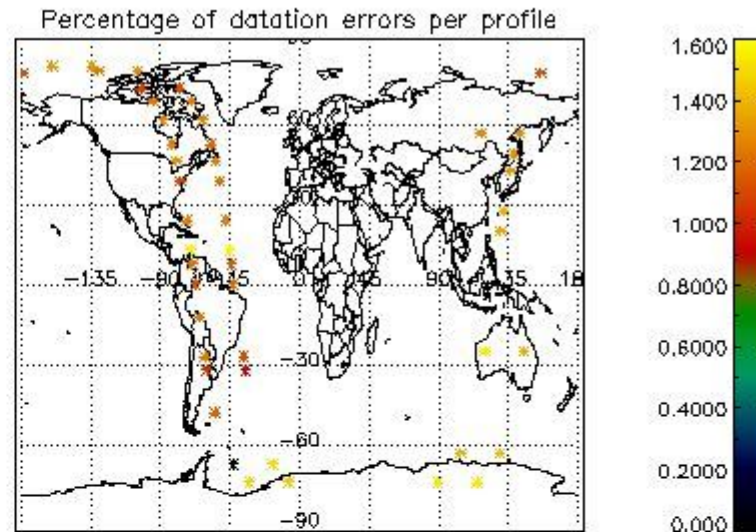
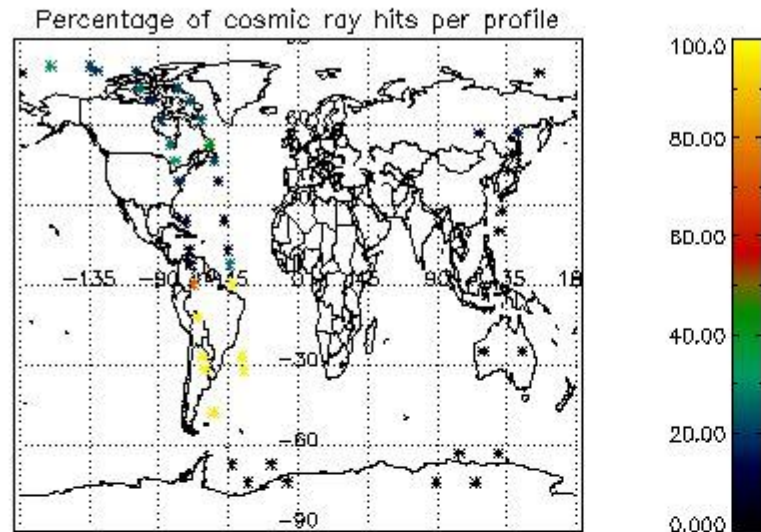
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



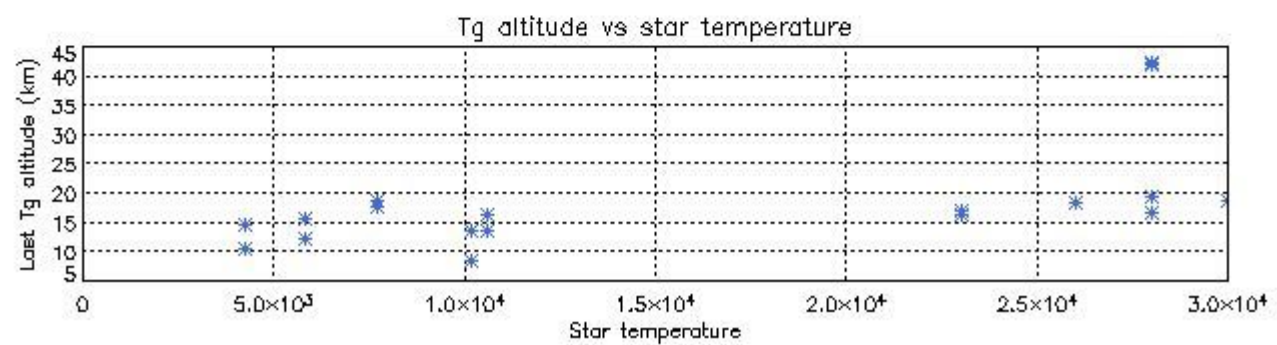
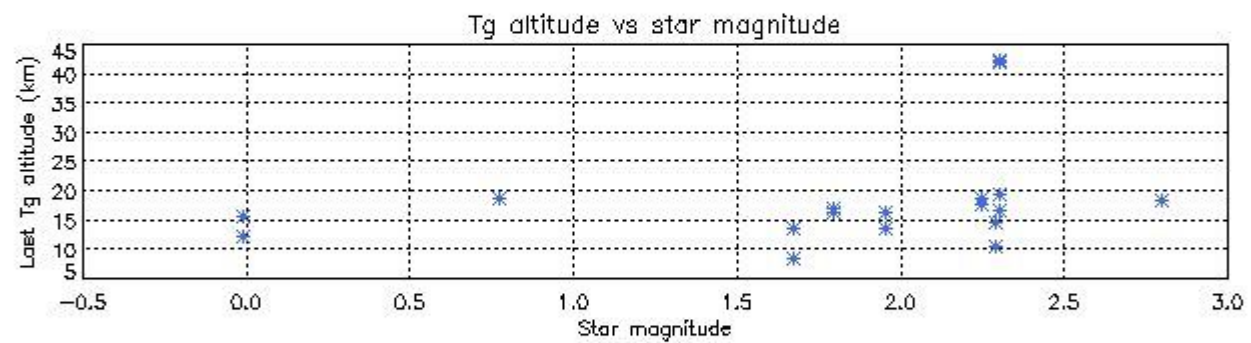
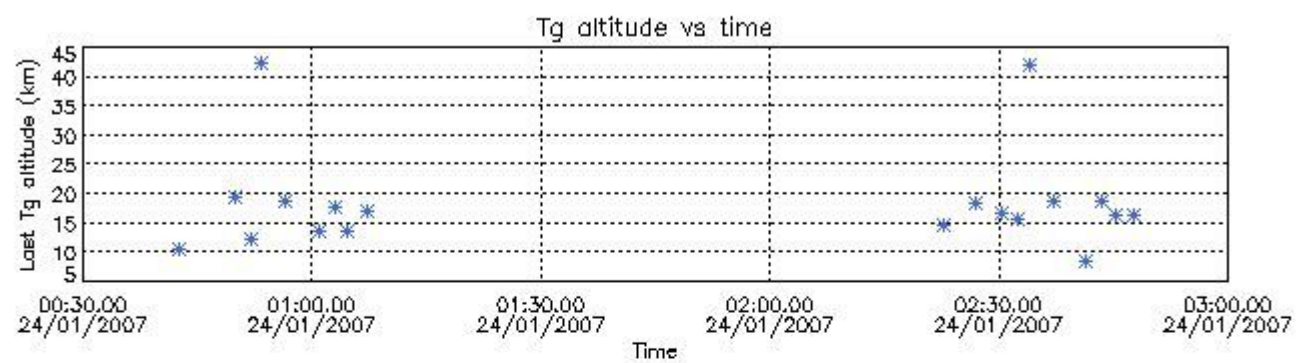
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.477	22.660	6.4473
St. deviation:	8.8706	4.2508	3.2834
Maximum:	42.420	28.328	8.7690
Minimum:	8.5833	15.886	4.1255
Number of data:	19.000	14.000	2.0000

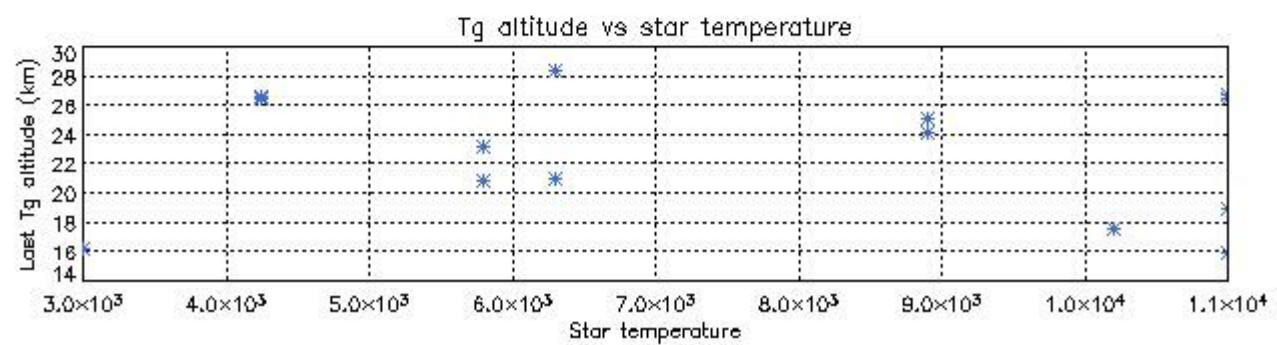
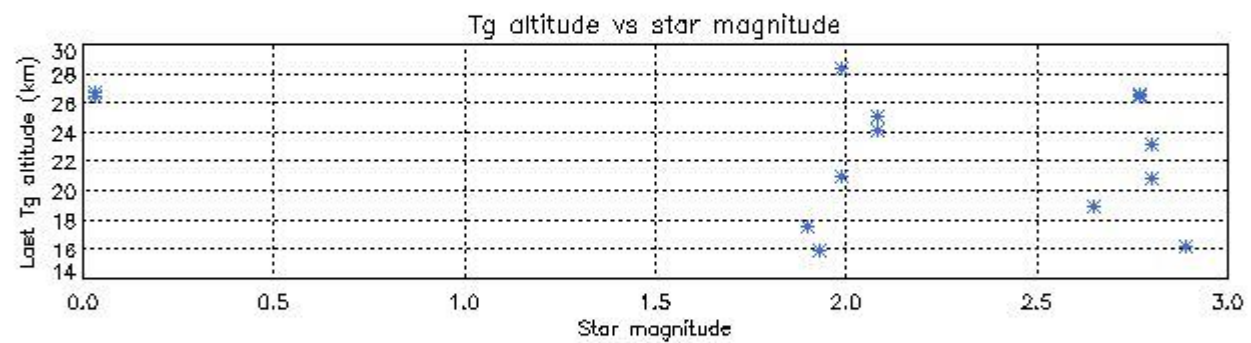
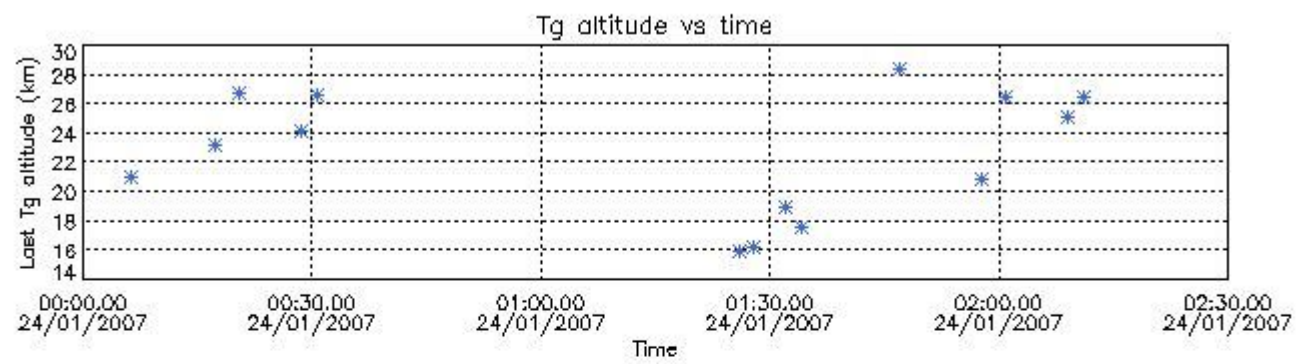
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



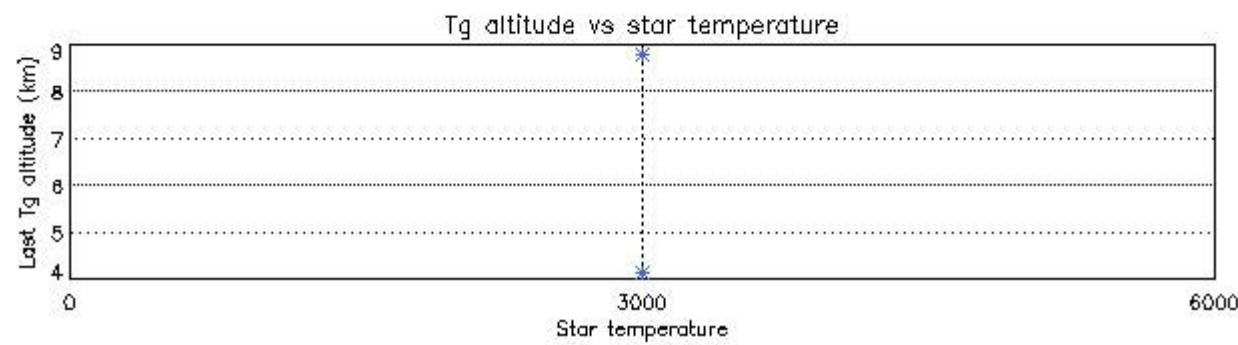
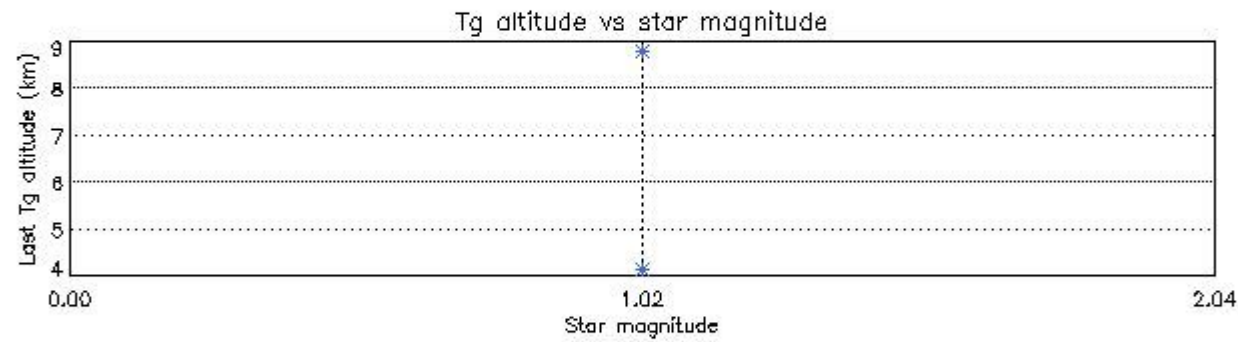
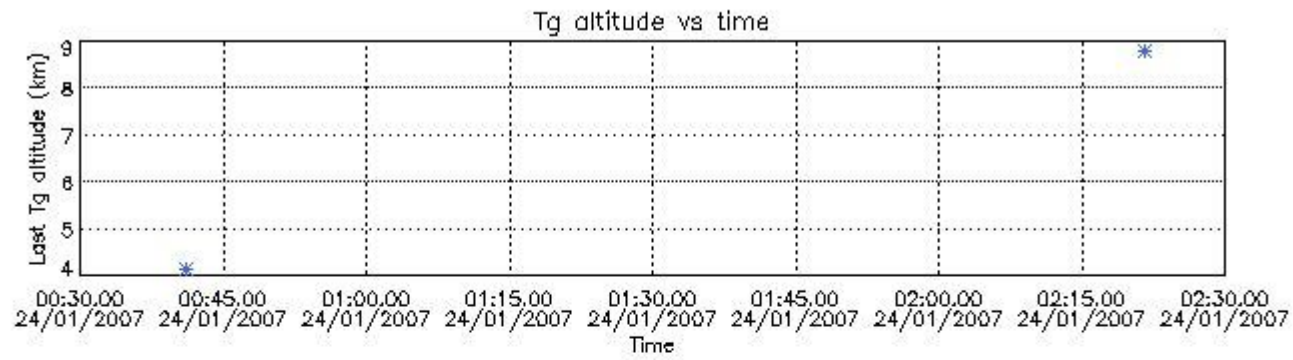
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

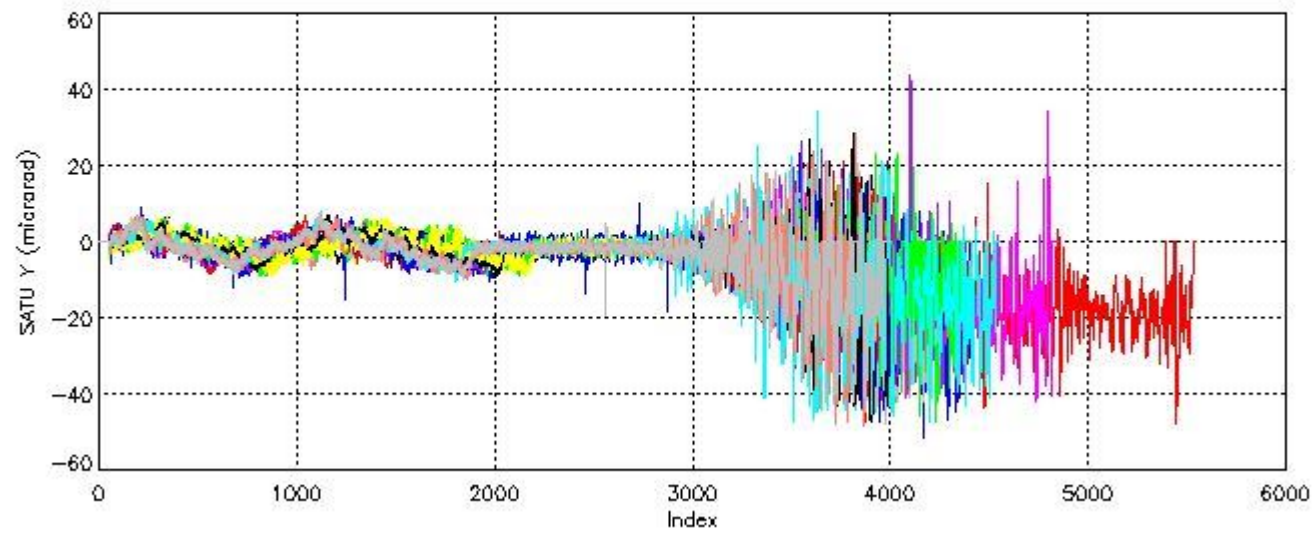
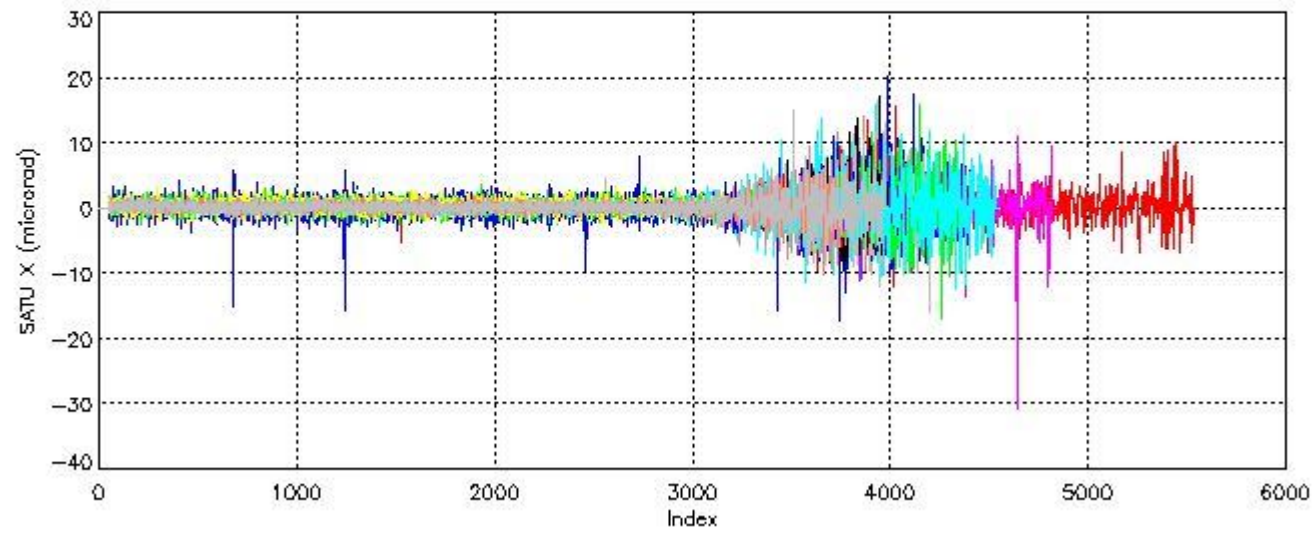


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14537	-1.2475	-0.052900	-1.2763
St. deviation:	0.53919	2.7970	0.62549	2.9702
Maximum:	5.8000	8.8000	3.9000	7.9000
Minimum:	-15.100	-12.000	-5.0000	-11.100

Number of data:	17050.	17050.	11200.	11200.
-----------------	--------	--------	--------	--------

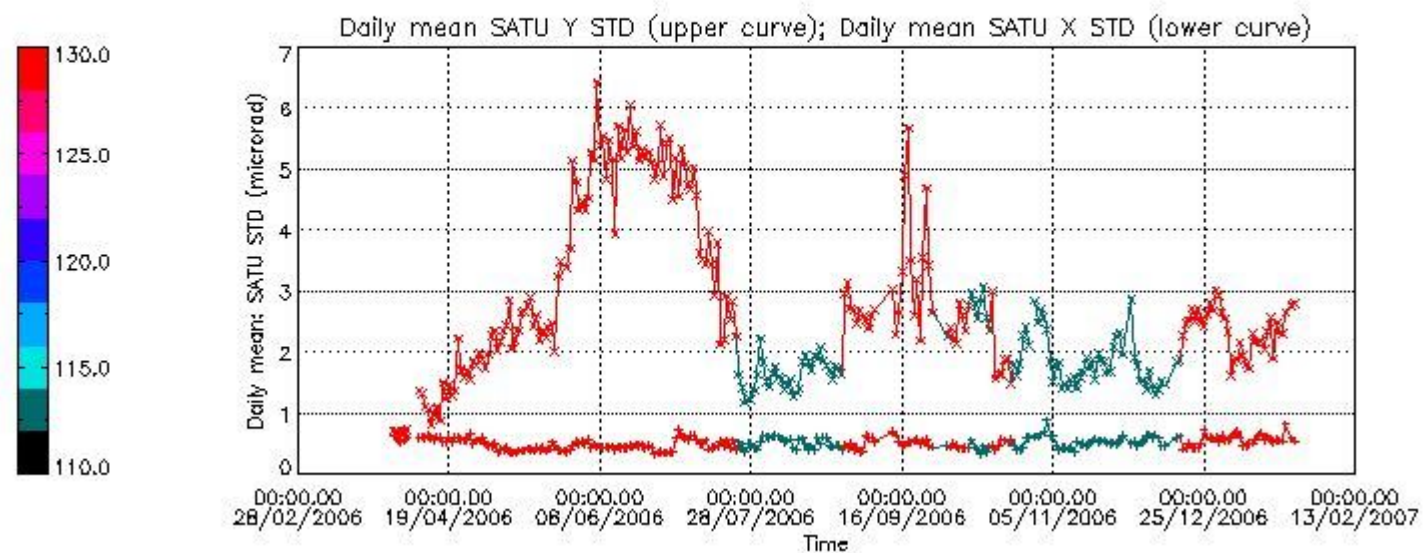
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

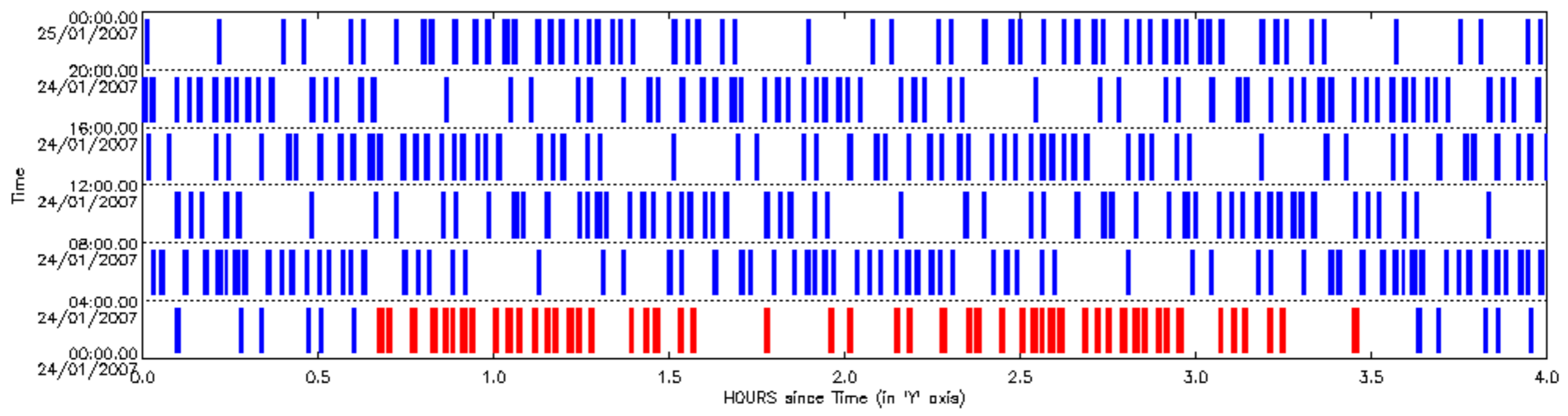
Lower curve: STD of SATU X axis

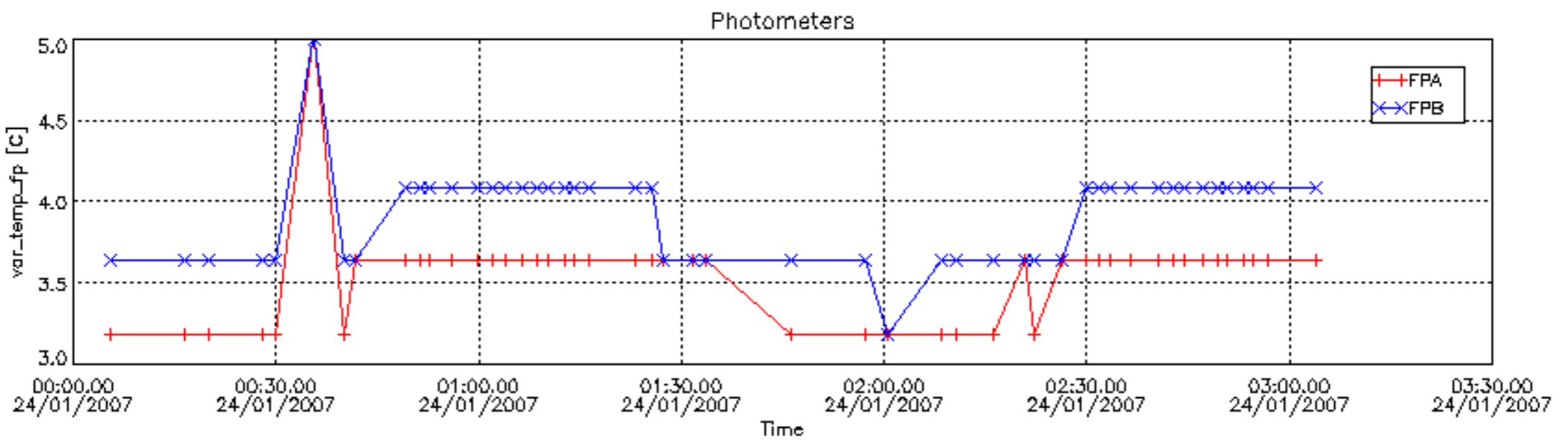
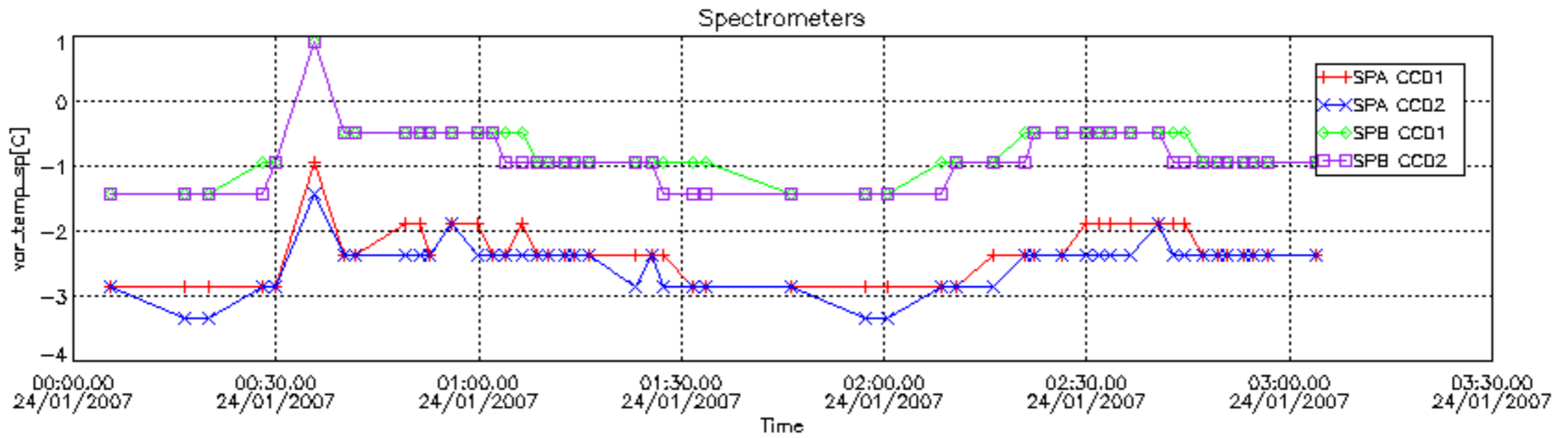


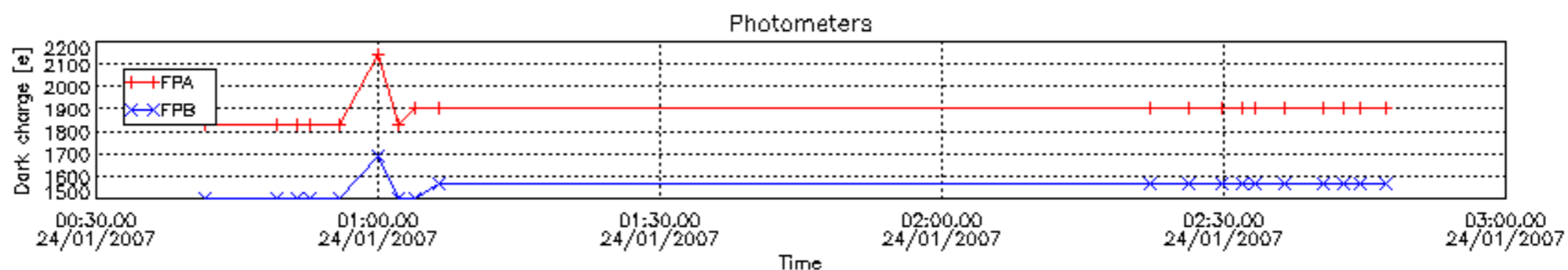
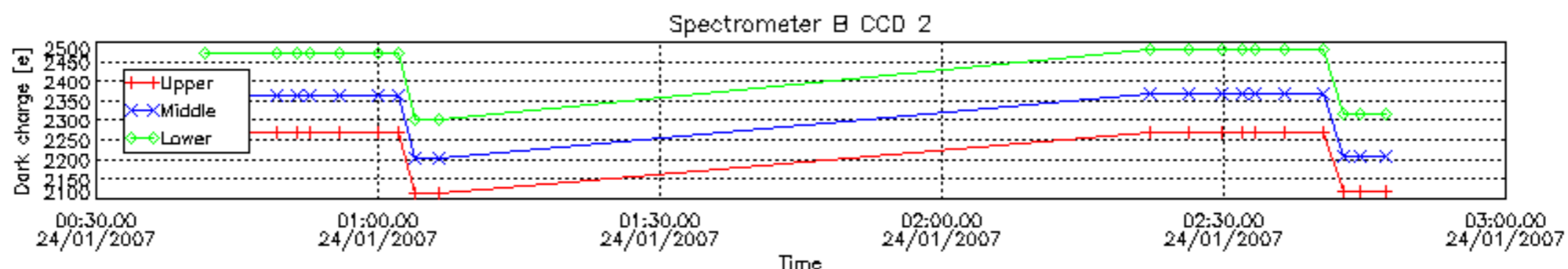
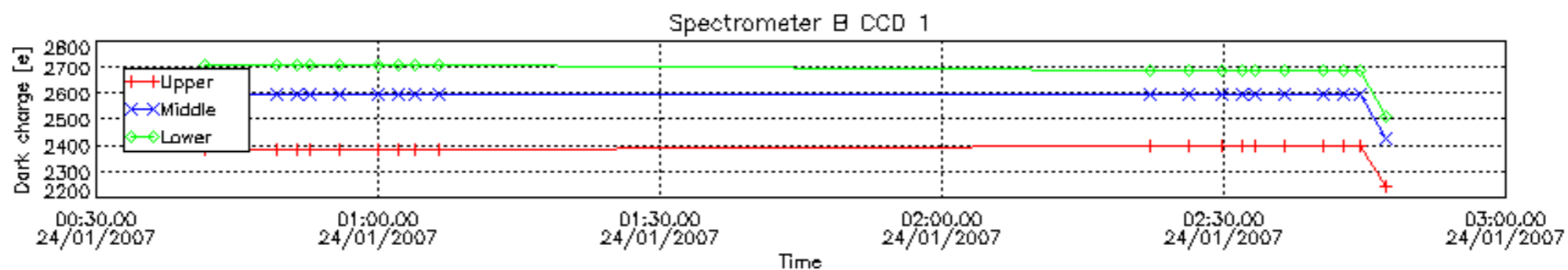
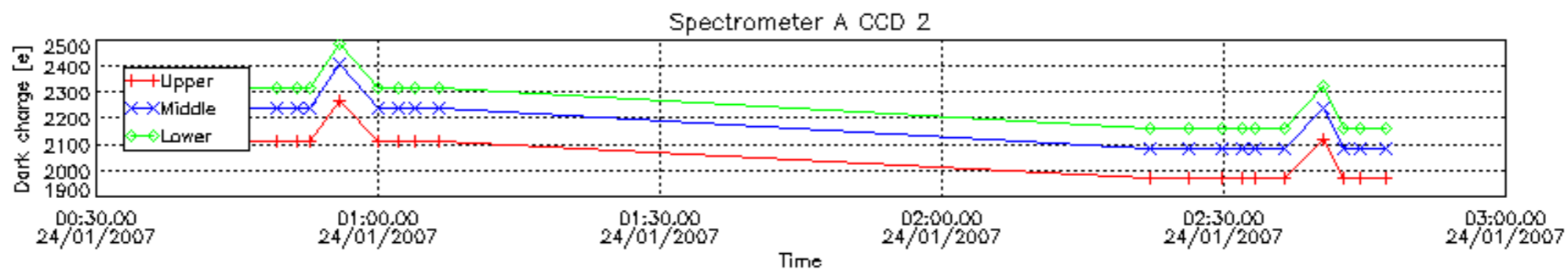
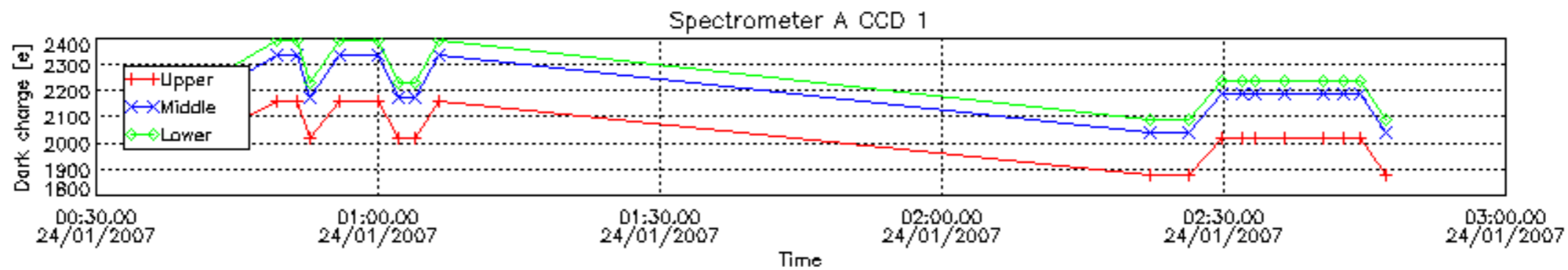
8. Auxiliary Data Files used for the production reported in section 2.4

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.

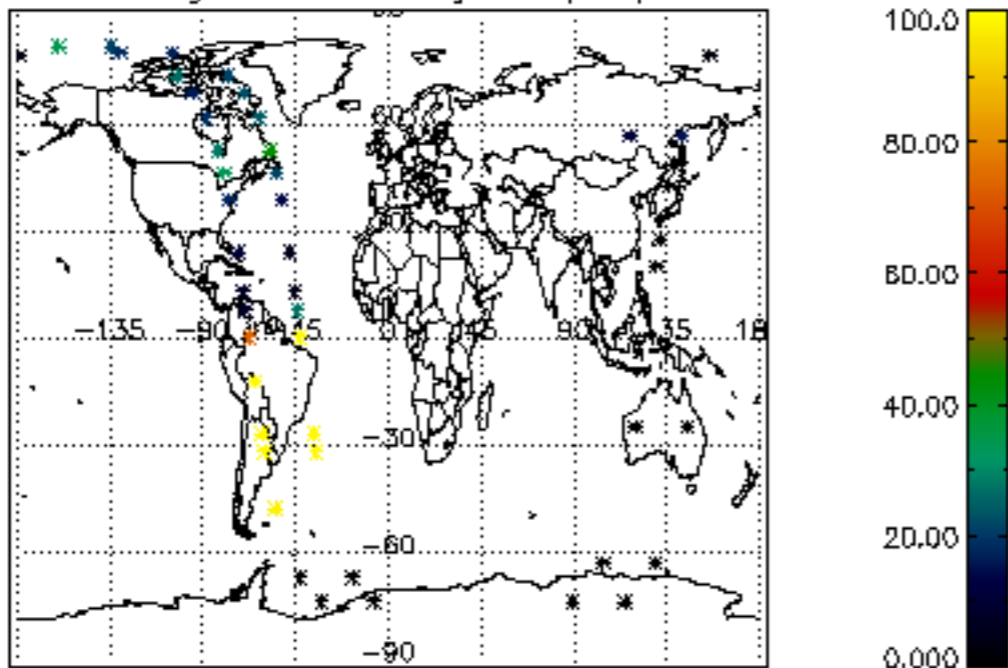
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070117_105731_20070116_000000_20100101_000000	1	24-JAN-2007 00:05:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JAN-2007 00:05:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JAN-2007 00:05:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JAN-2007 00:05:36
ECMWF_FILE	AUX_ECF_AXNECM20070123_062303_20070123_210000_20070124_090000	1	24-JAN-2007 00:05:36
OPTIONAL_ECMWF_FILE	MISSING	1	24-JAN-2007 00:05:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070123_211227_000057382055_00014_25619_2639.N1	1	24-JAN-2007 00:05:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070123_225324_000057382055_00015_25620_2640.N1	6	24-JAN-2007 00:35:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070124_003421_000054192055_00016_25621_2641.N1	32	24-JAN-2007 02:16:16



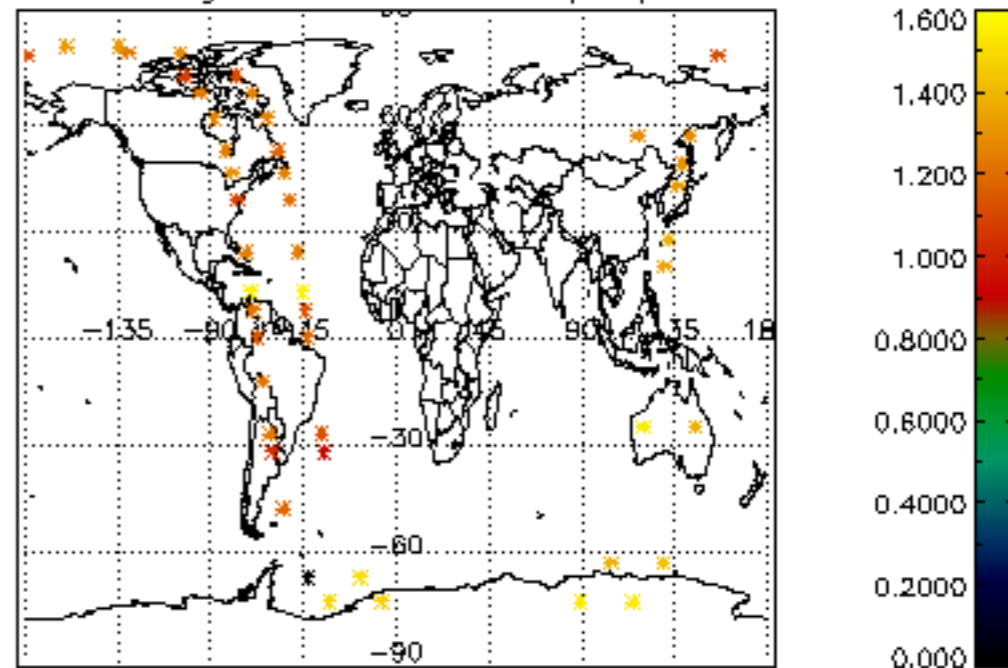




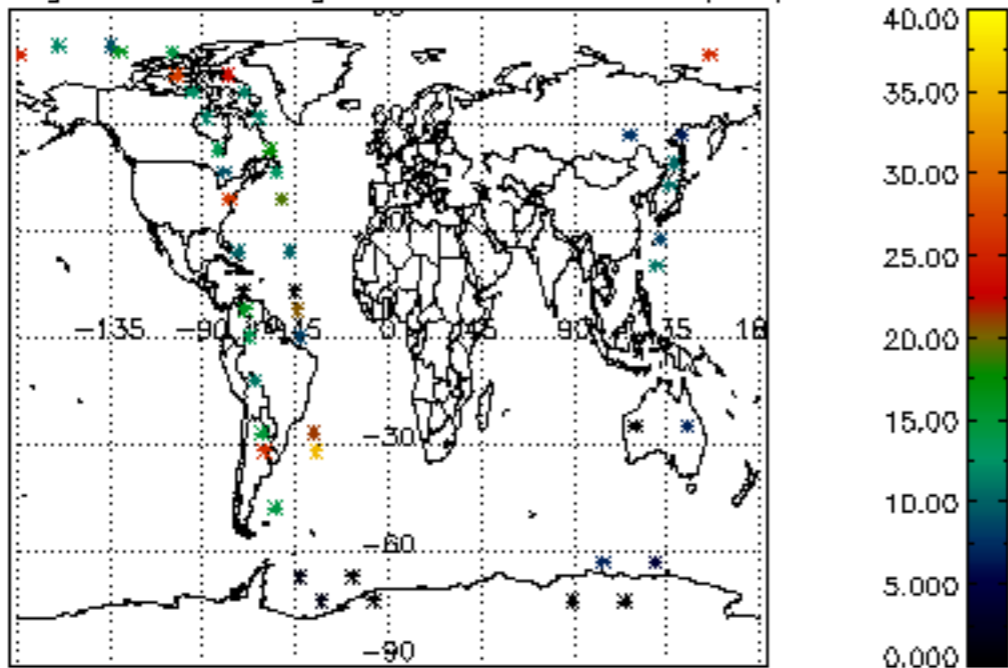
Percentage of cosmic ray hits per profile



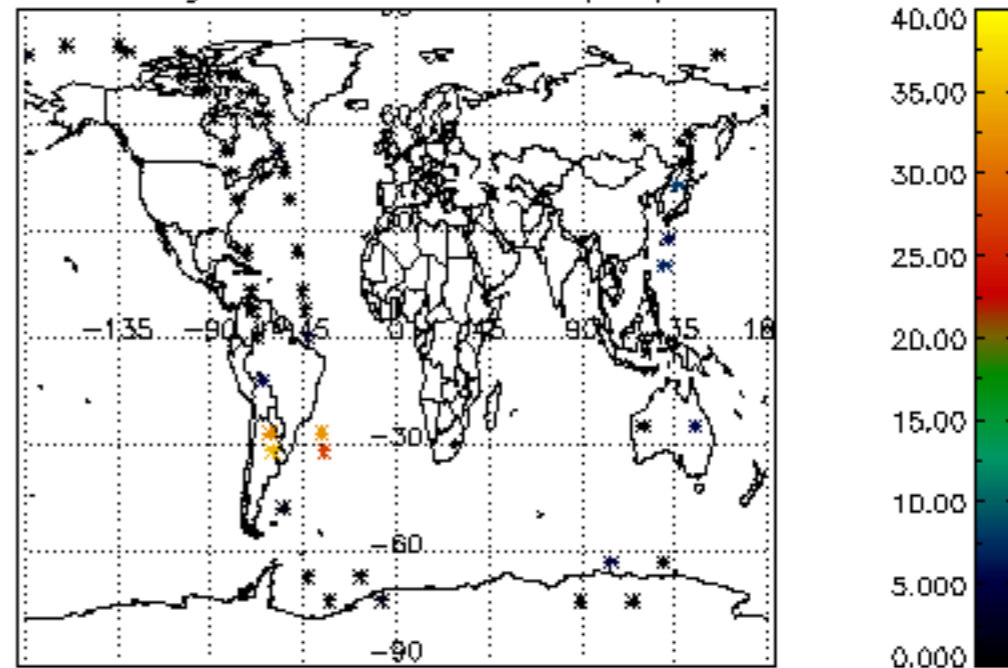
Percentage of datation errors per profile



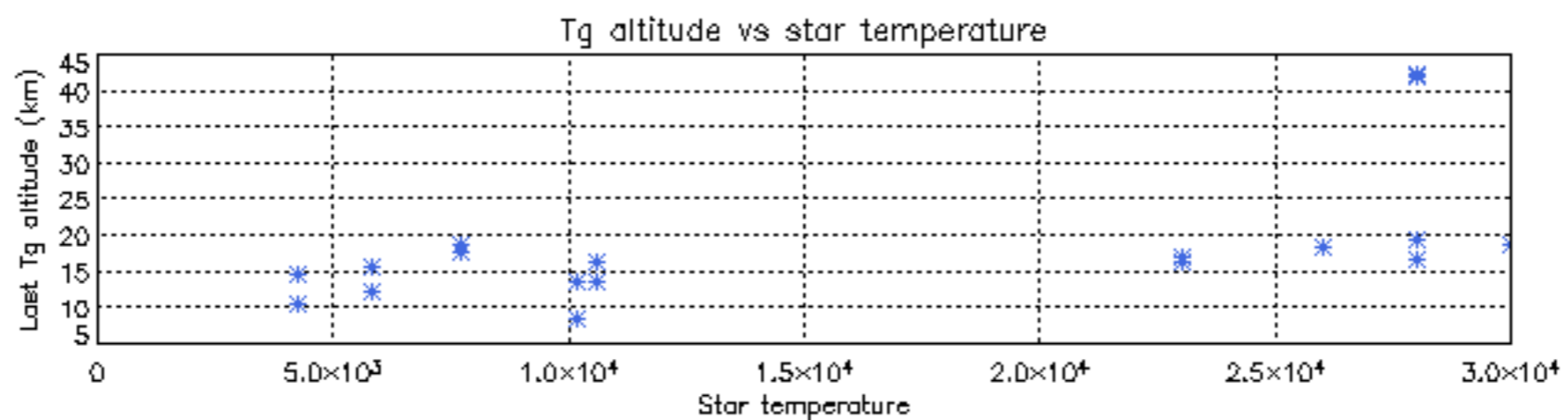
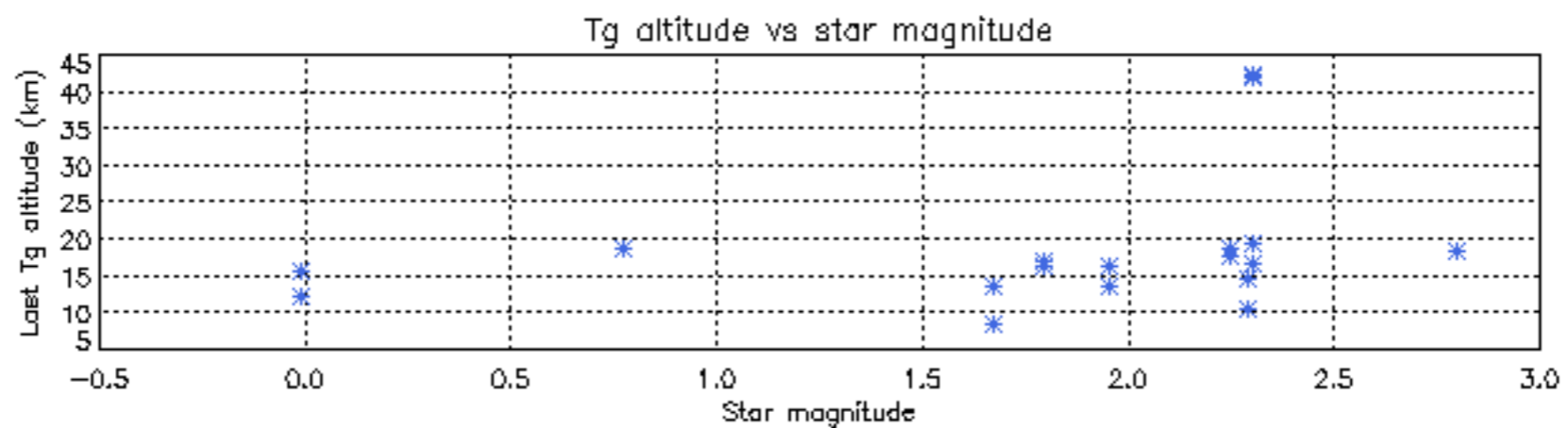
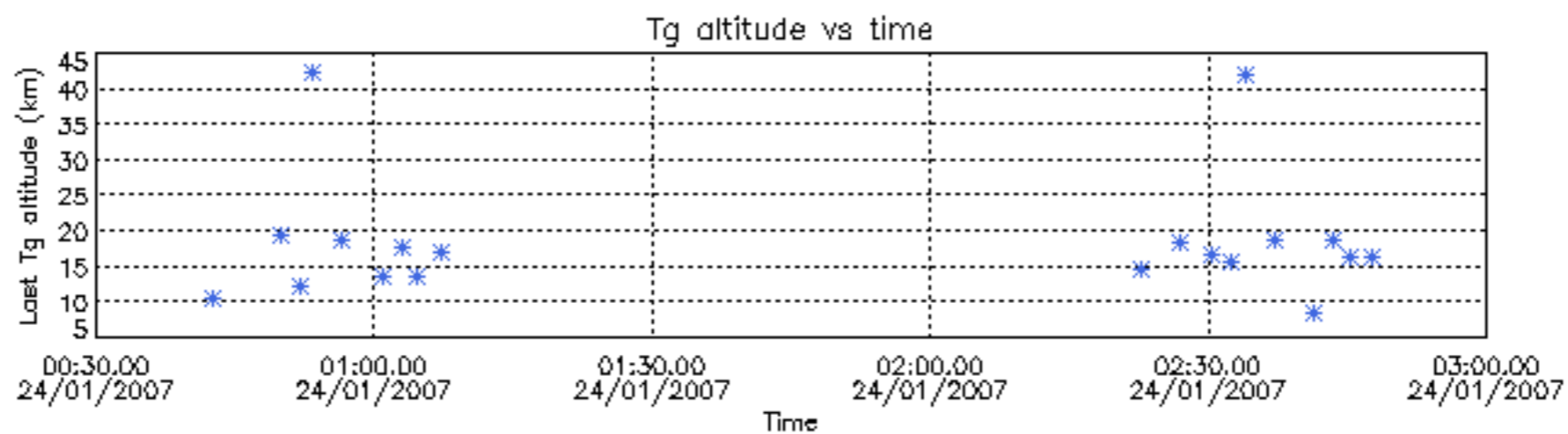
Percentage of star falling outside central band per profile



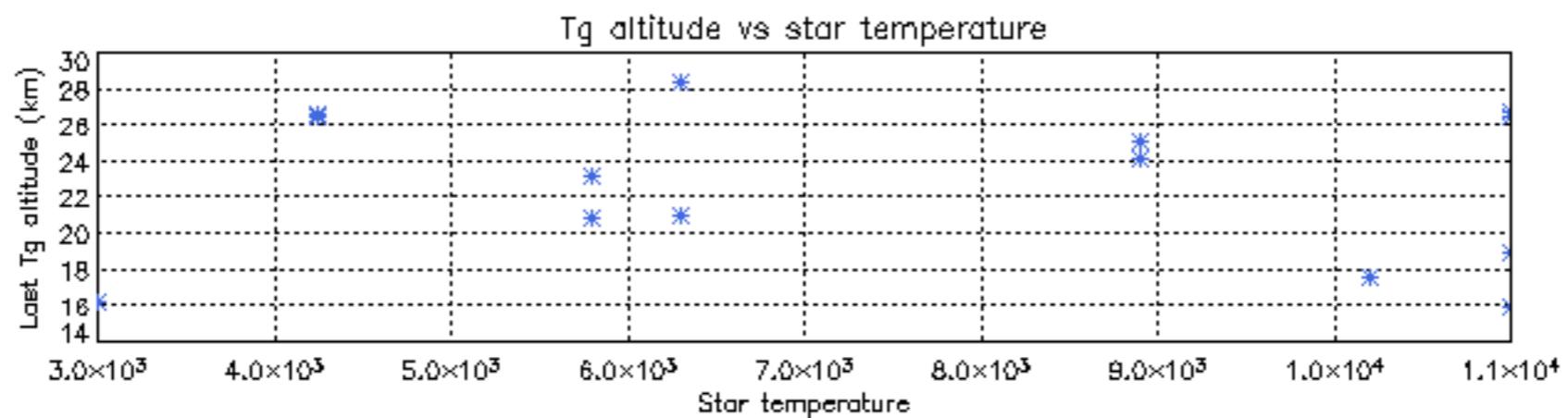
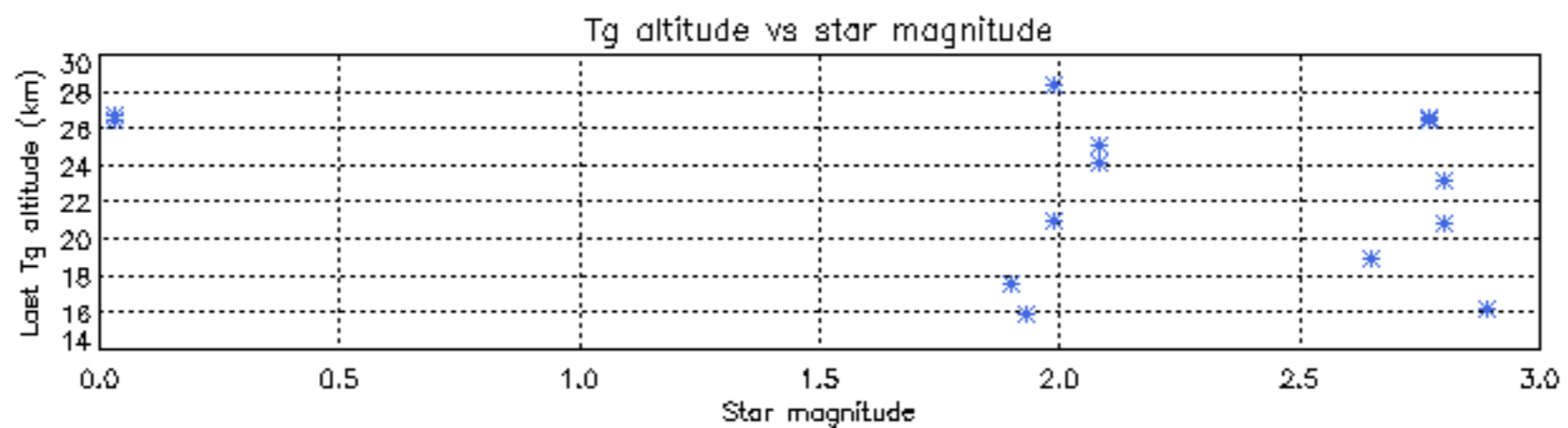
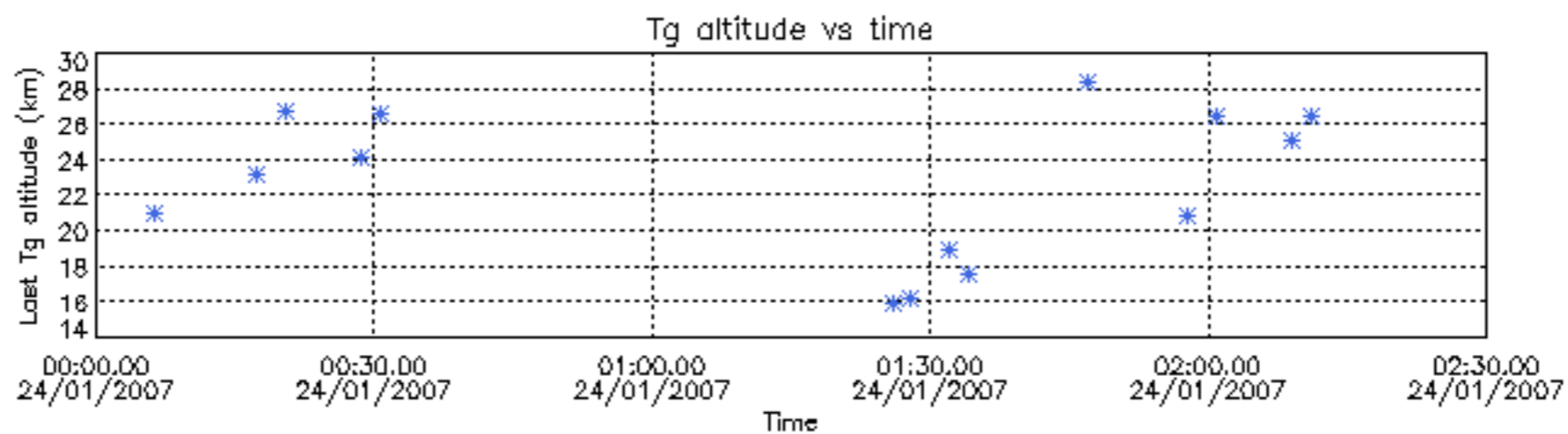
Percentage of saturation errors per profile



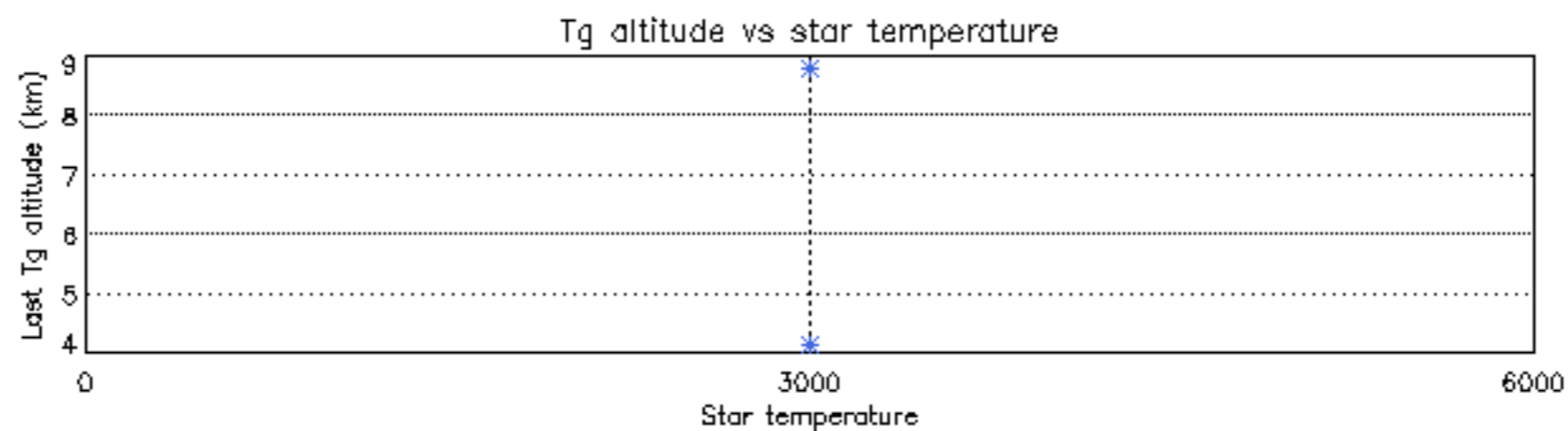
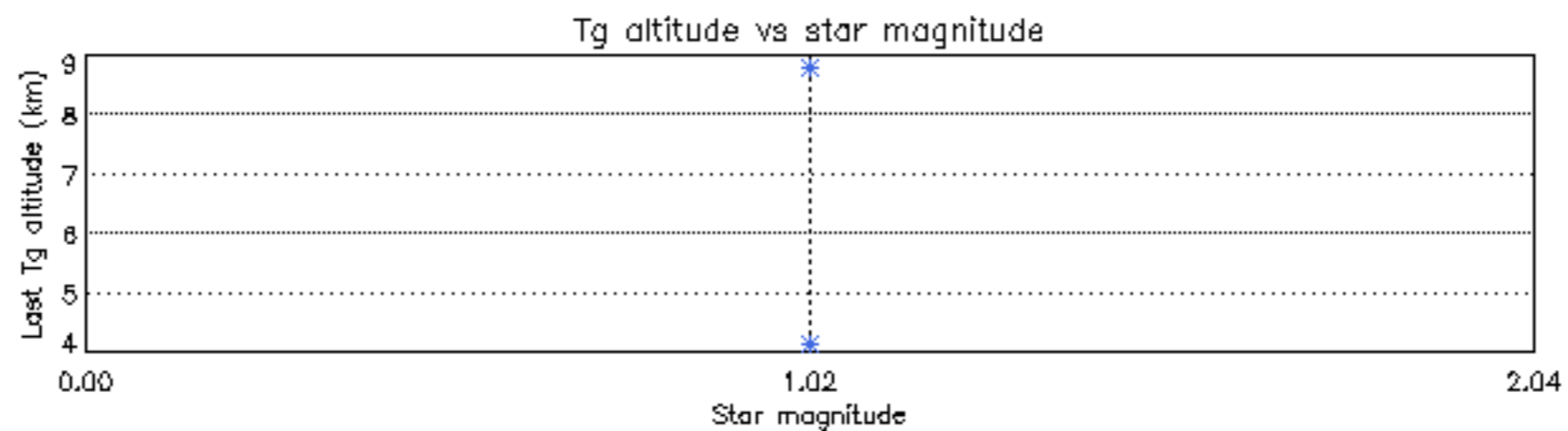
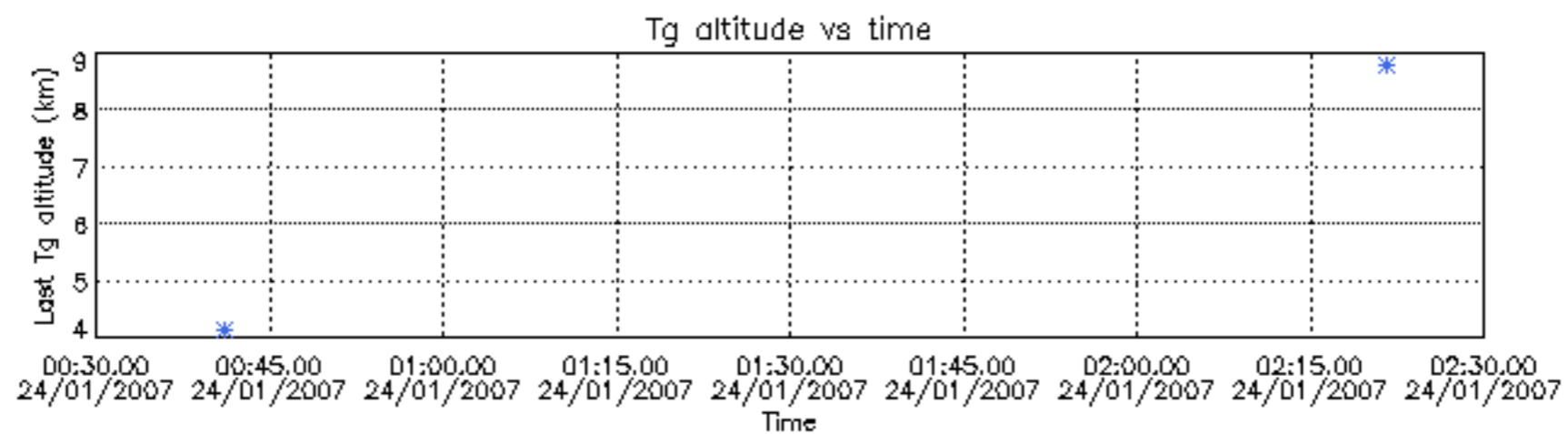
Tangent altitude at which the star is lost

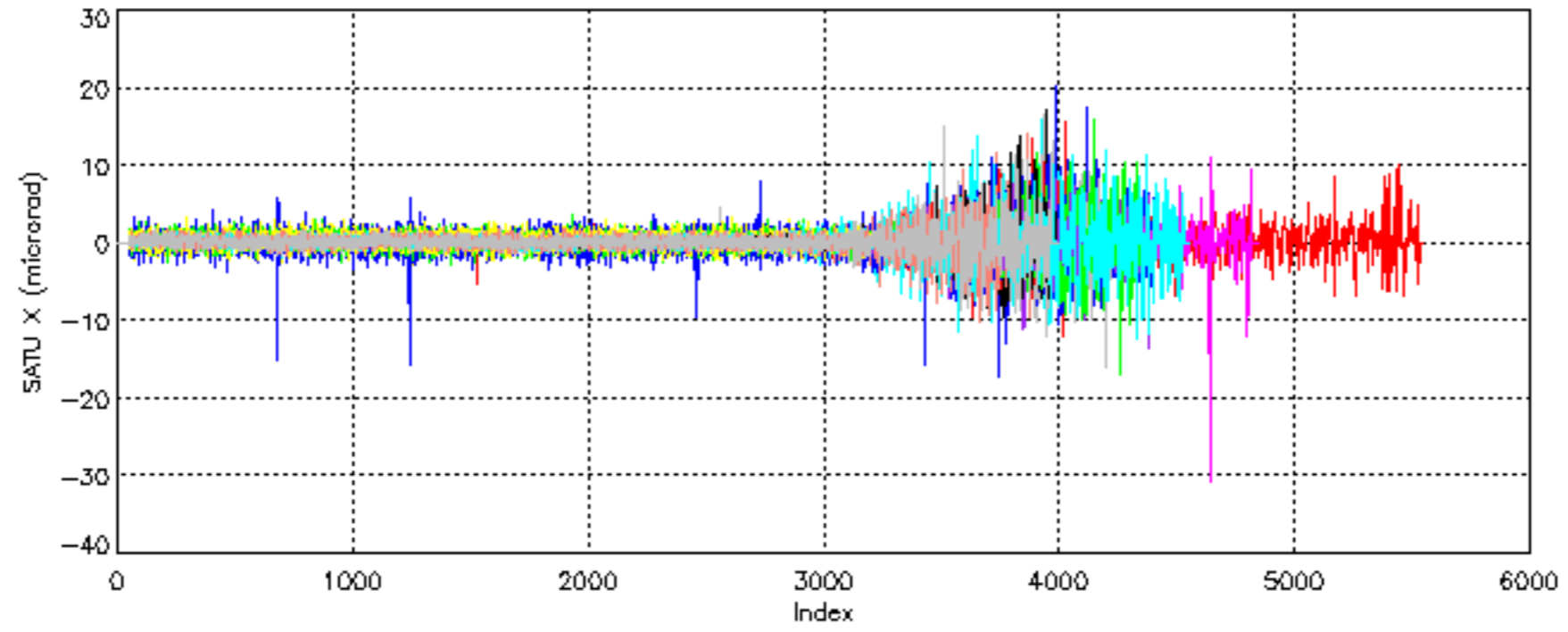


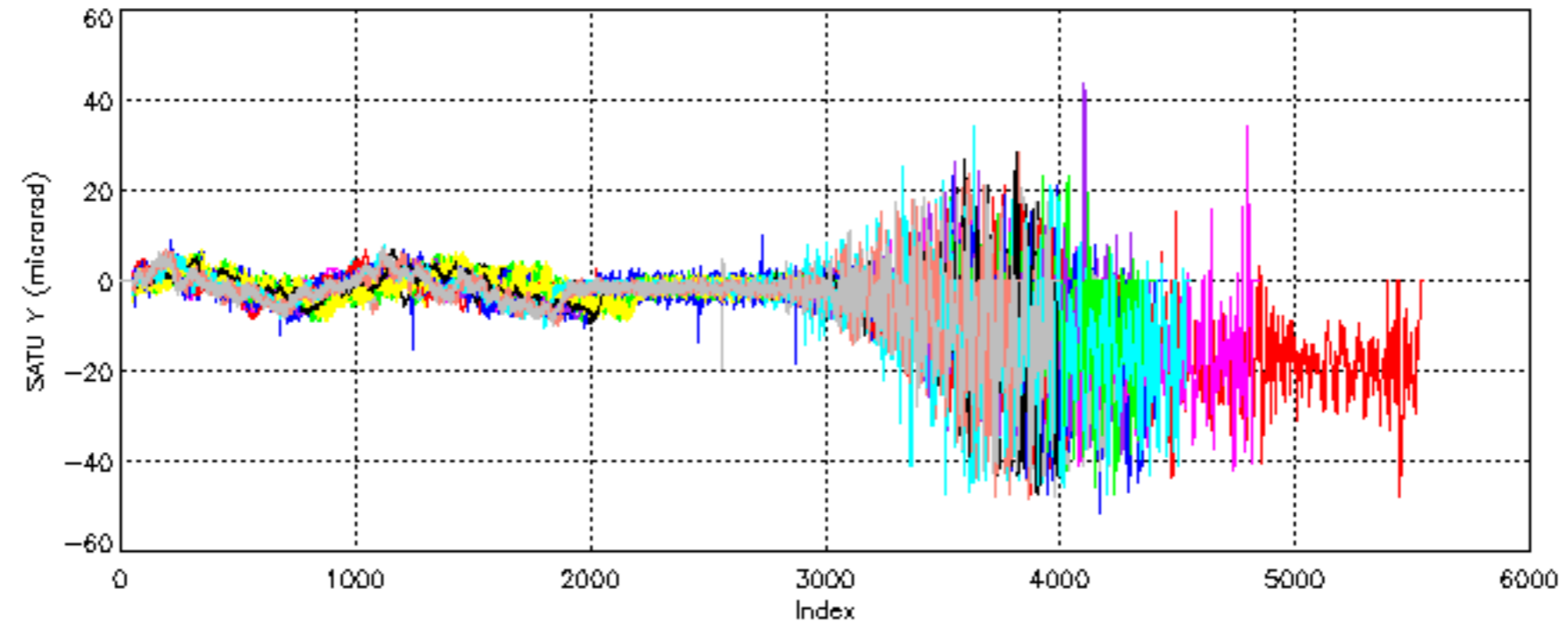
Tangent altitude at which the star is lost

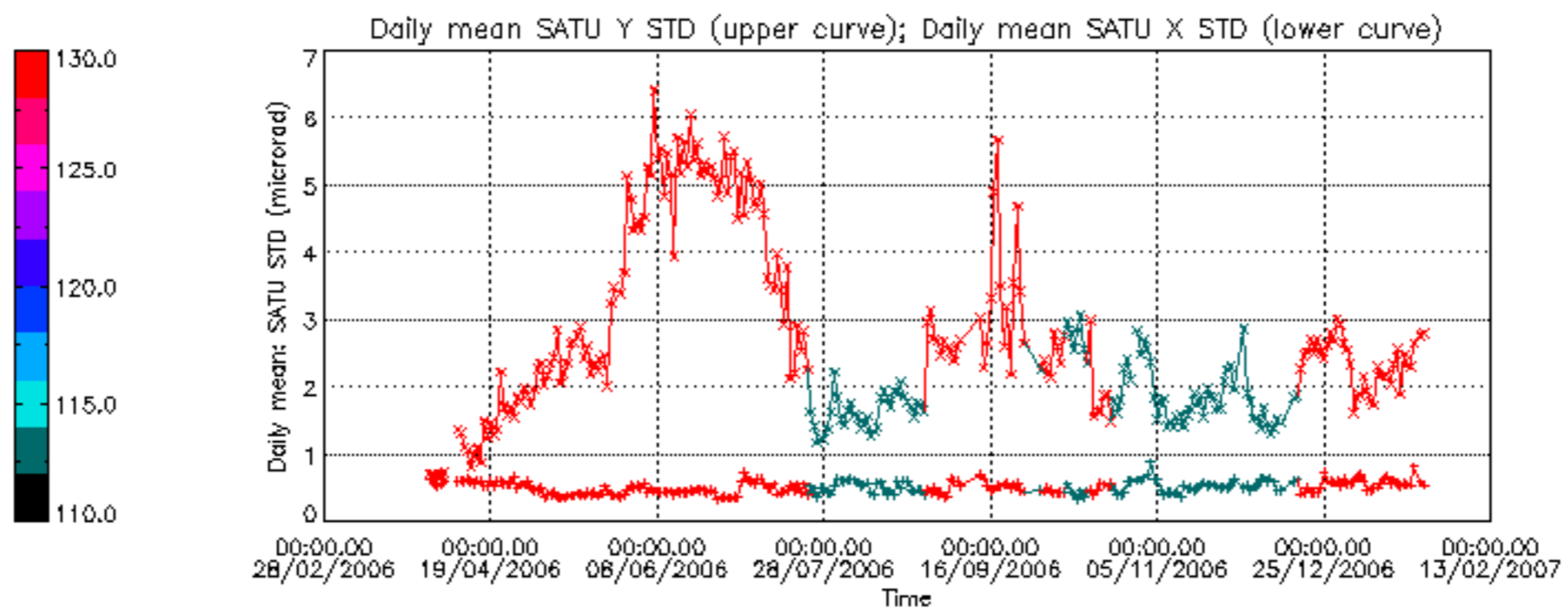


Tangent altitude at which the star is lost









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 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293
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 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293
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 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293
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 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294
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 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294
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 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
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 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
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22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
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 6; 2395.7; 08-JAN-2007 11:35:33; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25399
 7; 2480.7; 08-JAN-2007 11:36:58; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25399
 8; 2680.8; 08-JAN-2007 11:40:18; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;25399
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29; 2192.6; 13-JAN-2007 03:52:16; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25466
30; 2294.6; 13-JAN-2007 03:53:58; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;25466
31; 2400.4; 13-JAN-2007 03:55:44; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25466
32; 2492.2; 13-JAN-2007 03:57:16; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25466
33; 2673.9; 13-JAN-2007 04:00:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25466
34; 3424.9; 13-JAN-2007 04:12:48; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25466

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22; 1382.7; 13-JAN-2007 05:19:22; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;25467
23; 1468.7; 13-JAN-2007 05:20:48; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;25467
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25; 1752.7; 13-JAN-2007 05:25:32; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25467
26; 1822.2; 13-JAN-2007 05:26:42; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;25467
27; 1899.9; 13-JAN-2007 05:27:59; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25467
28; 2035.7; 13-JAN-2007 05:30:15; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;25467
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33; 2673.8; 13-JAN-2007 05:40:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25467
34; 3424.9; 13-JAN-2007 05:53:24; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;25467

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7; 1384.5; 13-JAN-2007 20:24:47; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;25476
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11; 1823.9; 13-JAN-2007 20:32:07; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25476
12; 1901.4; 13-JAN-2007 20:33:24; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;25476
13; 2036.4; 13-JAN-2007 20:35:39; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;25476
14; 2191.4; 13-JAN-2007 20:38:14; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25476
15; 2272.7; 13-JAN-2007 20:39:35; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25476
16; 2401.5; 13-JAN-2007 20:41:44; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25476
17; 2494.2; 13-JAN-2007 20:43:17; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25476
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22; 4074.2; 13-JAN-2007 21:09:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25476
23; 4449.9; 13-JAN-2007 21:15:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25476
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25; 5087.1; 13-JAN-2007 21:26:30; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25476
26; 5171.0; 13-JAN-2007 21:27:54; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;25476

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7; 522.7; 13-JAN-2007 21:51:01; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;25477
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16; 1605.3; 13-JAN-2007 22:09:04; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;25477
17; 1754.0; 13-JAN-2007 22:11:33; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25477
18; 1824.0; 13-JAN-2007 22:12:43; Dark ; 37.0; 125; 44Iot Ori ; 2.77; 30000;occ; 74; 0;25477
19; 1901.5; 13-JAN-2007 22:14:00; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25477
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22; 2272.8; 13-JAN-2007 22:20:11; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25477
23; 2401.6; 13-JAN-2007 22:22:20; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25477
24; 2494.4; 13-JAN-2007 22:23:53; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25477
25; 2673.2; 13-JAN-2007 22:26:52; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25477
26; 3424.8; 13-JAN-2007 22:39:23; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;25477
27; 3667.6; 13-JAN-2007 22:43:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25477
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29; 4074.3; 13-JAN-2007 22:50:13; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25477
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31; 4634.4; 13-JAN-2007 22:59:33; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;25477
32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477
33; 5171.3; 13-JAN-2007 23:08:30; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25477

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 25; 2673.0; 14-JAN-2007 00:07:27; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25478
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 29; 4074.6; 14-JAN-2007 00:30:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;25478
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 33; 5171.6; 14-JAN-2007 00:49:06; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;25478

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 3;-1962.6; 13-JAN-2007 06:04:13; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25467
 4;-1587.4; 13-JAN-2007 06:10:28; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;25467
 5;-1403.6; 13-JAN-2007 06:13:32; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25467
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25;	6378.2;	31-JAN-2007	20:41:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25733
26;	6503.5;	31-JAN-2007	20:43:58;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	25733
27;	6716.8;	31-JAN-2007	20:47:32;	Dark	;	36.5;	29;	Bet Car	;	1.67;	10200;occ;	73;	0;	25733
28;	6858.0;	31-JAN-2007	20:49:53;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	25733
29;	6963.0;	31-JAN-2007	20:51:38;	Dark	;	34.5;	46;	Del Vel	;	1.95;	10600;occ;	69;	0;	25733