

GOMOS Daily Report 17-SEP-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	19SEP2007 05:46:02
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (17SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (18SEP2007 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)

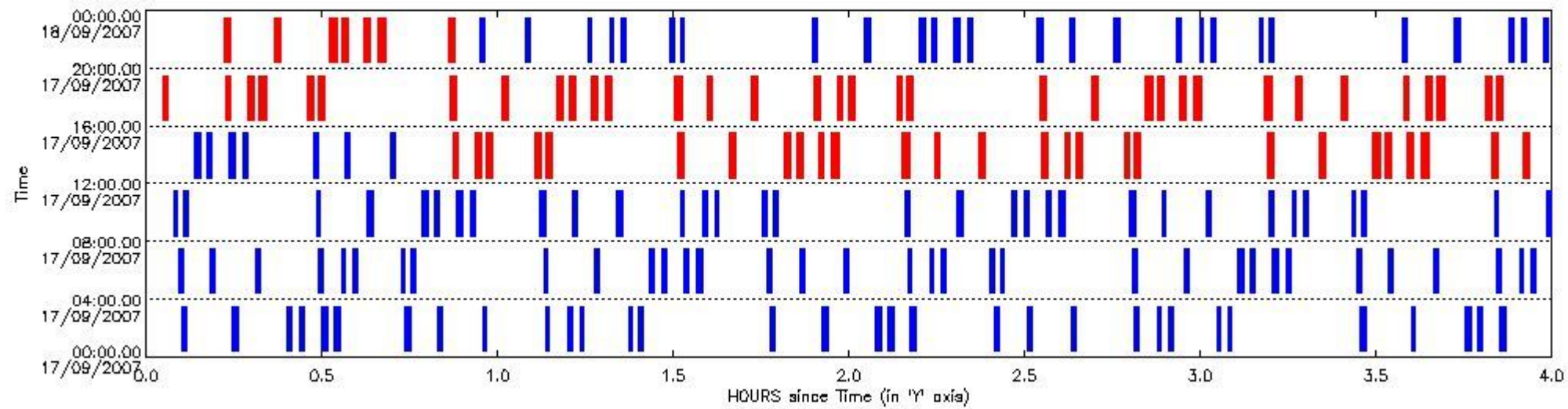
2.1 Level 0 products arrived in PCF (see template [here](#))

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
17-SEP-2007 12:52:18	54AlpPeg	90	29007
17-SEP-2007 12:56:09	53BetPeg	93	29007
17-SEP-2007 12:58:07	21AlpAnd	58	29007
17-SEP-2007 13:06:21	11BetCas	74	29007
17-SEP-2007 13:08:07	27GamCas	76	29007
17-SEP-2007 13:30:45	66AlpGem	24	29007
17-SEP-2007 13:39:33	10AlpCMi	8	29007
17-SEP-2007 13:48:48	9AlpCMa	1	29007
17-SEP-2007 13:50:57	21EpsCMa	23	29007
17-SEP-2007 13:54:42	DSA1059	0	29007
17-SEP-2007 13:57:02	AlpCol	108	29008
17-SEP-2007 14:09:01	The1Eri	157	29008
17-SEP-2007 14:14:31	AlpPhe	84	29008
17-SEP-2007 14:22:07	16BetCet	52	29008
17-SEP-2007 14:32:54	54AlpPeg	90	29008

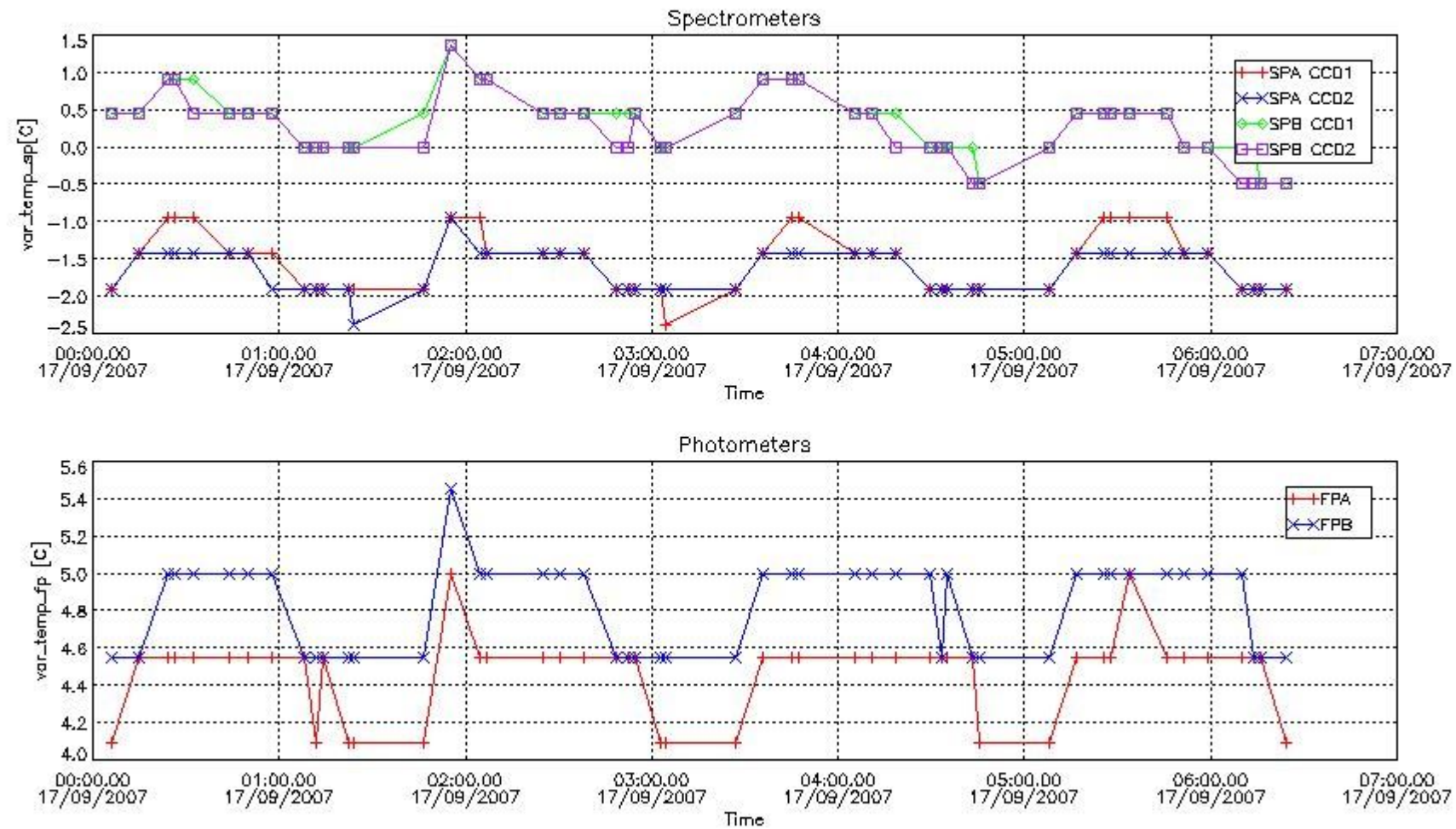
17-SEP-2007 14:36:45	53BetPeg	93	29008
17-SEP-2007 14:38:42	21AlpAnd	58	29008
17-SEP-2007 14:46:57	11BetCas	74	29008
17-SEP-2007 14:48:43	27GamCas	76	29008
17-SEP-2007 15:11:21	66AlpGem	24	29008
17-SEP-2007 15:20:09	10AlpCMi	8	29008
17-SEP-2007 15:29:25	9AlpCMa	1	29008
17-SEP-2007 15:31:34	21EpsCMa	23	29008
17-SEP-2007 15:35:19	DSA1059	0	29008
17-SEP-2007 15:37:40	AlpCol	108	29009
17-SEP-2007 15:49:38	The1Eri	157	29009
17-SEP-2007 15:55:07	AlpPhe	84	29009
17-SEP-2007 16:02:43	16BetCet	52	29009
17-SEP-2007 16:13:29	54AlpPeg	90	29009
17-SEP-2007 16:17:20	53BetPeg	93	29009
17-SEP-2007 16:19:18	21AlpAnd	58	29009
17-SEP-2007 16:27:32	11BetCas	74	29009
17-SEP-2007 16:29:18	27GamCas	76	29009
17-SEP-2007 16:51:57	66AlpGem	24	29009
17-SEP-2007 17:00:46	10AlpCMi	8	29009
17-SEP-2007 17:10:02	9AlpCMa	1	29009
17-SEP-2007 17:12:11	21EpsCMa	23	29009
17-SEP-2007 17:15:55	DSA1059	0	29009
17-SEP-2007 17:18:17	AlpCol	108	29010
17-SEP-2007 17:30:15	The1Eri	157	29010
17-SEP-2007 17:35:44	AlpPhe	84	29010
17-SEP-2007 17:43:19	16BetCet	52	29010
17-SEP-2007 17:54:05	54AlpPeg	90	29010
17-SEP-2007 17:57:56	53BetPeg	93	29010
17-SEP-2007 17:59:53	21AlpAnd	58	29010
17-SEP-2007 18:08:08	11BetCas	74	29010
17-SEP-2007 18:09:53	27GamCas	76	29010
17-SEP-2007 18:32:33	66AlpGem	24	29010
17-SEP-2007 18:41:22	10AlpCMi	8	29010
17-SEP-2007 18:50:39	9AlpCMa	1	29010
17-SEP-2007 18:52:48	21EpsCMa	23	29010
17-SEP-2007 18:56:32	DSA1059	0	29010
17-SEP-2007 18:58:54	AlpCol	108	29011
17-SEP-2007 19:10:52	The1Eri	157	29011
17-SEP-2007 19:16:20	AlpPhe	84	29011
17-SEP-2007 19:23:55	16BetCet	52	29011
17-SEP-2007 19:34:41	54AlpPeg	90	29011
17-SEP-2007 19:38:32	53BetPeg	93	29011
17-SEP-2007 19:40:28	21AlpAnd	58	29011
17-SEP-2007 19:48:43	11BetCas	74	29011
17-SEP-2007 19:50:29	27GamCas	76	29011
17-SEP-2007 20:13:09	66AlpGem	24	29011
17-SEP-2007 20:21:59	10AlpCMi	8	29011
17-SEP-2007 20:31:17	9AlpCMa	1	29011
17-SEP-2007 20:33:24	21EpsCMa	23	29011
17-SEP-2007 20:37:09	DSA1059	0	29011
17-SEP-2007 20:39:31	AlpCol	108	29012
17-SEP-2007 20:51:28	The1Eri	157	29012

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_1PNPDE20070917_000600_000000442061_00388_28999_0615.N1	17-SEP-2007 00:06:00	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	28999	No

2	GOM_TRA_1PNPDE20070917_001445_000000632061_00388_28999_0616.N1	17-SEP-2007 00:14:45	Dark	62.500	8	10Alp CMi	0.40000	6500.0	125	28999	No
3	GOM_TRA_1PNPDE20070917_002356_000000592061_00388_28999_0761.N1	17-SEP-2007 00:23:56	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	28999	No
4	GOM_TRA_1PNPDE20070917_002607_000000492061_00388_28999_0762.N1	17-SEP-2007 00:26:07	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	28999	No
5	GOM_TRA_1PNPDE20070917_003209_000000522061_00389_29000_0763.N1	17-SEP-2007 00:32:09	Dark	52.000	108	Alp Col	2.6520	15200.	104	29000	No
6	GOM_TRA_1PNPDE20070917_004409_000000542061_00389_29000_0764.N1	17-SEP-2007 00:44:09	Dark	53.500	157	The1Eri	2.9060	9300.0	107	29000	No
7	GOM_TRA_1PNPDE20070917_004944_000000442061_00389_29000_0765.N1	17-SEP-2007 00:49:44	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	29000	No
8	GOM_TRA_1PNPDE20070917_005722_000000392061_00389_29000_0766.N1	17-SEP-2007 00:57:22	Twilight	39.000	52	16Bet Cet	2.0370	4500.0	78	29000	No
9	GOM_TRA_1PNPDE20070917_010811_000000402061_00389_29000_0767.N1	17-SEP-2007 01:08:11	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	29000	No
10	GOM_TRA_1PNPDE20070917_011203_000000382061_00389_29000_0768.N1	17-SEP-2007 01:12:03	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	29000	No
11	GOM_TRA_1PNPDE20070917_011404_000000402061_00389_29000_0769.N1	17-SEP-2007 01:14:04	Bright	40.000	58	21Alp And	2.0730	11000.	80	29000	No
12	GOM_TRA_1PNPDE20070917_012217_000000422061_00389_29000_0770.N1	17-SEP-2007 01:22:17	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	29000	No
13	GOM_TRA_1PNPDE20070917_012404_000000422061_00389_29000_0771.N1	17-SEP-2007 01:24:04	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	29000	No
14	GOM_TRA_1PNPDE20070917_014636_000000432061_00389_29000_0772.N1	17-SEP-2007 01:46:36	Bright	42.500	24	66Alp Gem	1.5800	10200.	85	29000	No
15	GOM_TRA_1PNPDE20070917_015521_000000602061_00389_29000_0918.N1	17-SEP-2007 01:55:21	Dark	59.500	8	10Alp CMi	0.40000	6500.0	119	29000	Yes
16	GOM_TRA_1PNPDE20070917_020433_000000602061_00389_29000_0919.N1	17-SEP-2007 02:04:33	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	29000	No
17	GOM_TRA_1PNPDE20070917_020644_000000492061_00389_29000_0920.N1	17-SEP-2007 02:06:44	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	29000	No
18	GOM_TRA_1PNPDE20070917_022446_000000552061_00390_29001_0921.N1	17-SEP-2007 02:24:46	Dark	55.000	157	The1Eri	2.9060	9300.0	110	29001	No
19	GOM_TRA_1PNPDE20070917_023021_000000482061_00390_29001_0922.N1	17-SEP-2007 02:30:21	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	29001	No
20	GOM_TRA_1PNPDE20070917_023758_000000392061_00390_29001_0923.N1	17-SEP-2007 02:37:58	Twilight	39.000	52	16Bet Cet	2.0370	4500.0	78	29001	No
21	GOM_TRA_1PNPDE20070917_024847_000000402061_00390_29001_0924.N1	17-SEP-2007 02:48:47	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	29001	No
22	GOM_TRA_1PNPDE20070917_025239_000000392061_00390_29001_0925.N1	17-SEP-2007 02:52:39	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	29001	No
23	GOM_TRA_1PNPDE20070917_025440_000000402061_00390_29001_0926.N1	17-SEP-2007 02:54:40	Bright	40.000	58	21Alp And	2.0730	11000.	80	29001	No
24	GOM_TRA_1PNPDE20070917_030253_000000382061_00390_29001_0927.N1	17-SEP-2007 03:02:53	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	29001	No
25	GOM_TRA_1PNPDE20070917_030439_000000412061_00390_29001_0928.N1	17-SEP-2007 03:04:39	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	29001	No
26	GOM_TRA_1PNPDE20070917_032713_000000592061_00390_29001_1065.N1	17-SEP-2007 03:27:13	Bright	58.500	24	66Alp Gem	1.5800	10200.	117	29001	No
27	GOM_TRA_1PNPDE20070917_033558_000000442061_00390_29001_1066.N1	17-SEP-2007 03:35:58	Dark	44.000	8	10Alp CMi	0.40000	6500.0	88	29001	No
28	GOM_TRA_1PNPDE20070917_034510_000000652061_00390_29001_1067.N1	17-SEP-2007 03:45:10	Dark	65.000	1	9Alp CMa	-1.4400	11000.	130	29001	No
29	GOM_TRA_1PNPDE20070917_034721_000000502061_00390_29001_1068.N1	17-SEP-2007 03:47:21	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	29001	No
30	GOM_TRA_1PNPDE20070917_040523_000000542061_00391_29002_1069.N1	17-SEP-2007 04:05:23	Dark	53.500	157	The1Eri	2.9060	9300.0	107	29002	No
31	GOM_TRA_1PNPDE20070917_041057_000000462061_00391_29002_1070.N1	17-SEP-2007 04:10:57	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	29002	No
32	GOM_TRA_1PNPDE20070917_041834_000000452061_00391_29002_1071.N1	17-SEP-2007 04:18:34	Twilight	45.000	52	16Bet Cet	2.0370	4500.0	90	29002	No
33	GOM_TRA_1PNPDE20070917_042923_000000392061_00391_29002_1072.N1	17-SEP-2007 04:29:23	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	29002	No
34	GOM_TRA_1PNPDE20070917_043315_000000382061_00391_29002_1073.N1	17-SEP-2007 04:33:15	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	29002	No
35	GOM_TRA_1PNPDE20070917_043515_000000472061_00391_29002_1074.N1	17-SEP-2007 04:35:15	Bright	47.000	58	21Alp And	2.0730	11000.	94	29002	No
36	GOM_TRA_1PNPDE20070917_044328_000000422061_00391_29002_1075.N1	17-SEP-2007 04:43:28	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	29002	No
37	GOM_TRA_1PNPDE20070917_044515_000000422061_00391_29002_1076.N1	17-SEP-2007 04:45:15	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	29002	No
38	GOM_TRA_1PNPDE20070917_050749_000000442061_00391_29002_1230.N1	17-SEP-2007 05:07:49	Bright	44.000	24	66Alp Gem	1.5800	10200.	88	29002	No
39	GOM_TRA_1PNPDE20070917_051634_000000422061_00391_29002_1231.N1	17-SEP-2007 05:16:34	Dark	42.000	8	10Alp CMi	0.40000	6500.0	84	29002	No
40	GOM_TRA_1PNPDE20070917_052547_000000602061_00391_29002_1232.N1	17-SEP-2007 05:25:47	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	29002	No
41	GOM_TRA_1PNPDE20070917_052757_000000512061_00391_29002_1233.N1	17-SEP-2007 05:27:57	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	29002	No
42	GOM_TRA_1PNPDE20070917_053401_000000532061_00392_29003_1234.N1	17-SEP-2007 05:34:01	Dark	52.500	108	Alp Col	2.6520	15200.	105	29003	No
43	GOM_TRA_1PNPDE20070917_054600_000000542061_00392_29003_1235.N1	17-SEP-2007 05:46:00	Dark	54.000	157	The1Eri	2.9060	9300.0	108	29003	No
44	GOM_TRA_1PNPDE20070917_055134_000000492061_00392_29003_1236.N1	17-SEP-2007 05:51:34	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	29003	No
45	GOM_TRA_1PNPDE20070917_055910_000000452061_00392_29003_1237.N1	17-SEP-2007 05:59:10	Twilight	45.000	52	16Bet Cet	2.0370	4500.0	90	29003	No
46	GOM_TRA_1PNPDE20070917_060959_000000392061_00392_29003_1238.N1	17-SEP-2007 06:09:59	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29003	No
47	GOM_TRA_1PNPDE20070917_061350_000000392061_00392_29003_1239.N1	17-SEP-2007 06:13:50	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	29003	No
48	GOM_TRA_1PNPDE20070917_061550_000000472061_00392_29003_1240.N1	17-SEP-2007 06:15:50	Bright	46.500	58	21Alp And	2.0730	11000.	93	29003	No
49	GOM_TRA_1PNPDE20070917_062404_000000402061_00392_29003_1241.N1	17-SEP-2007 06:24:04	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	29003	No

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



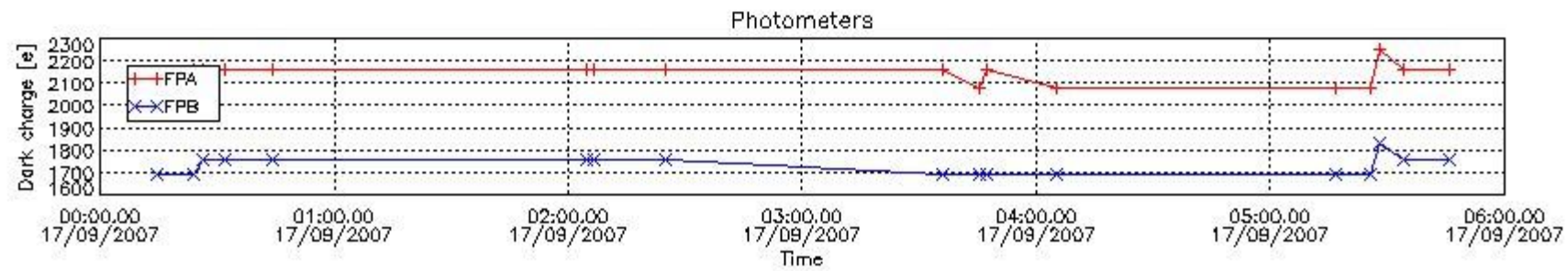
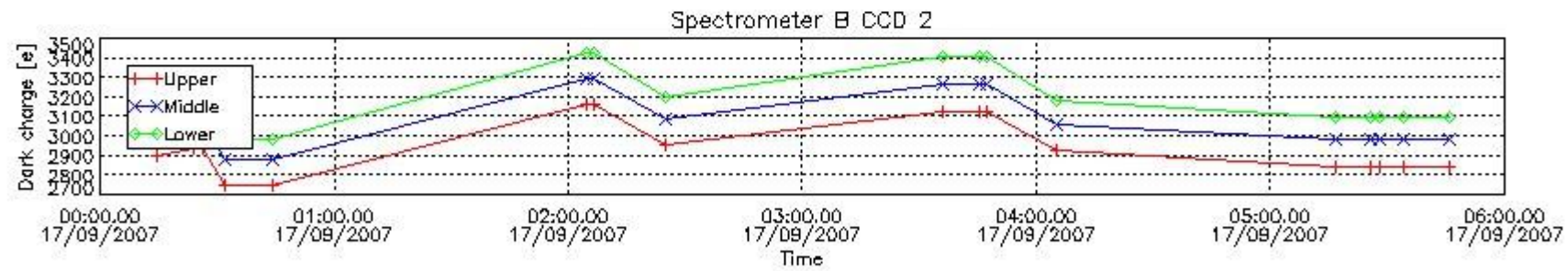
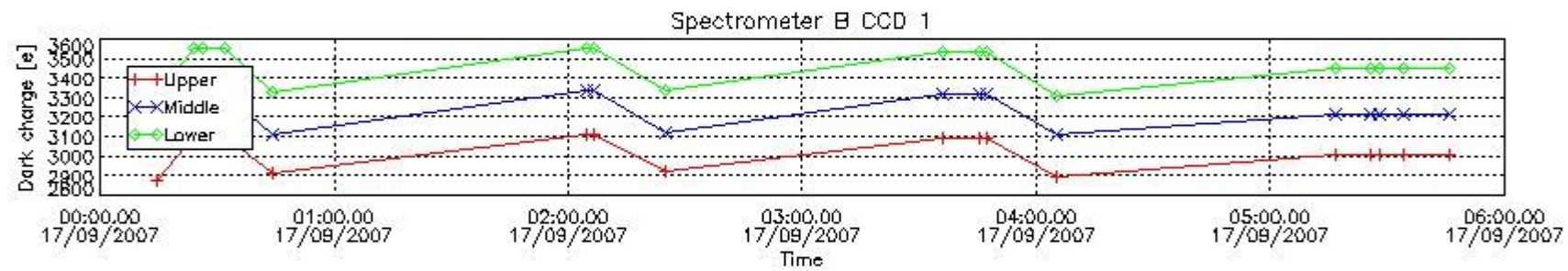
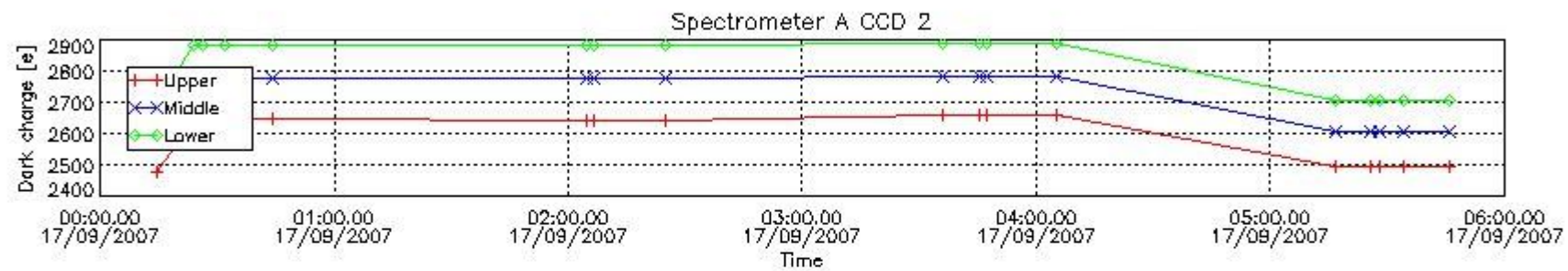
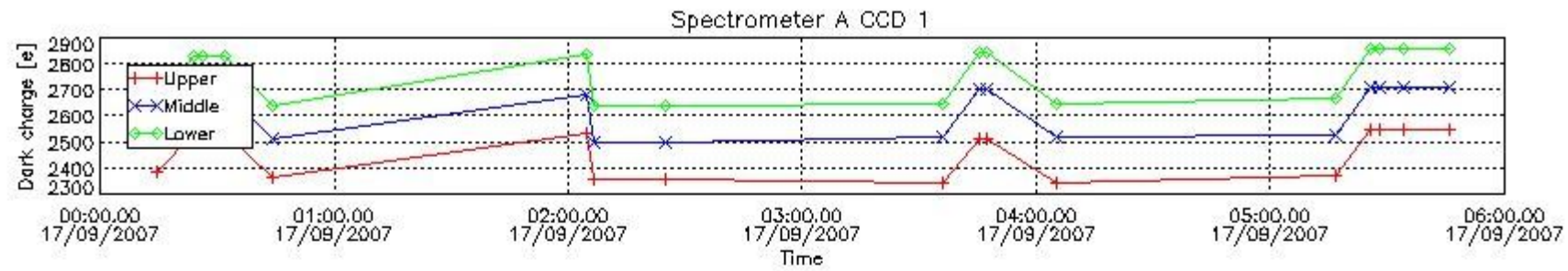
4. Overview of dark signal processing per product

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



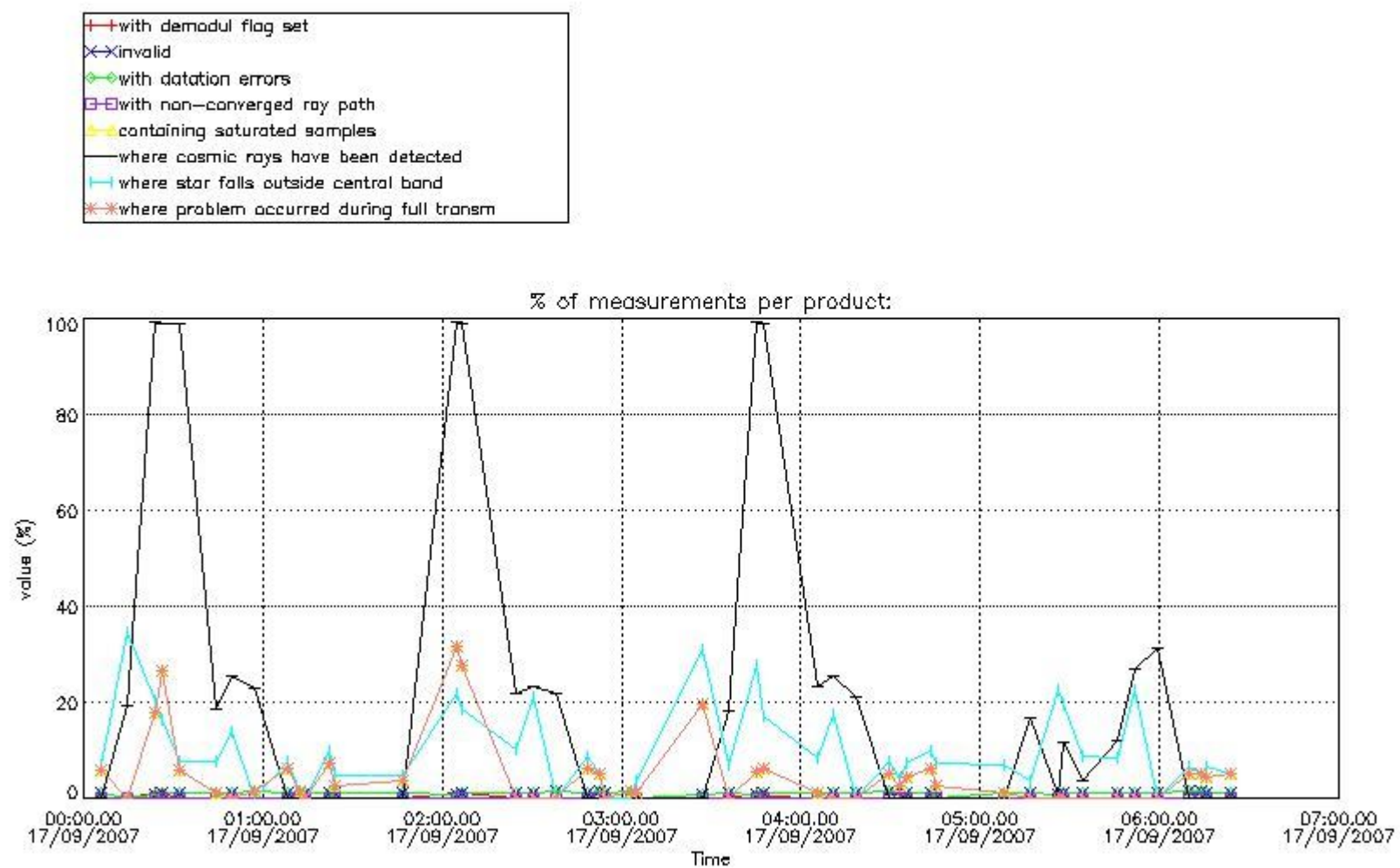
5. Demodulation flag and quality information monitoring

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.

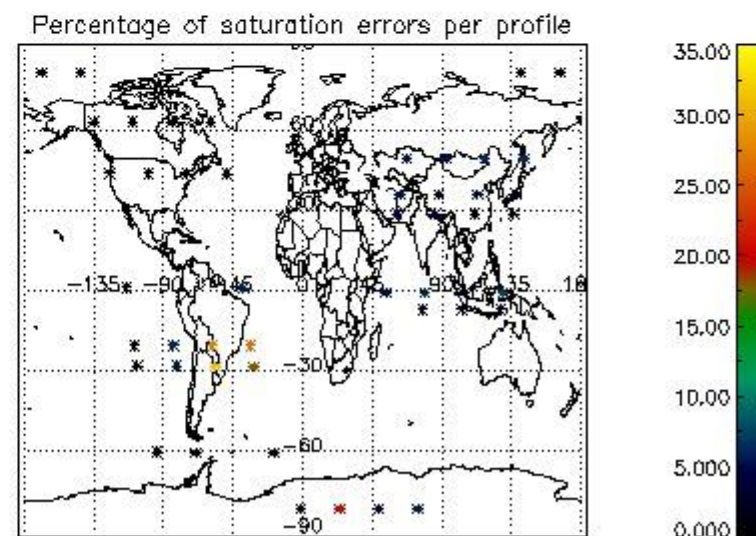
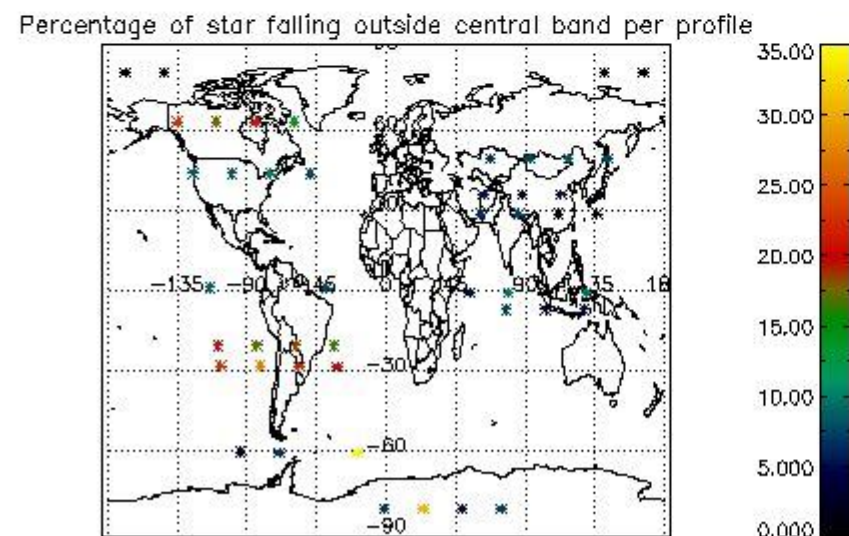
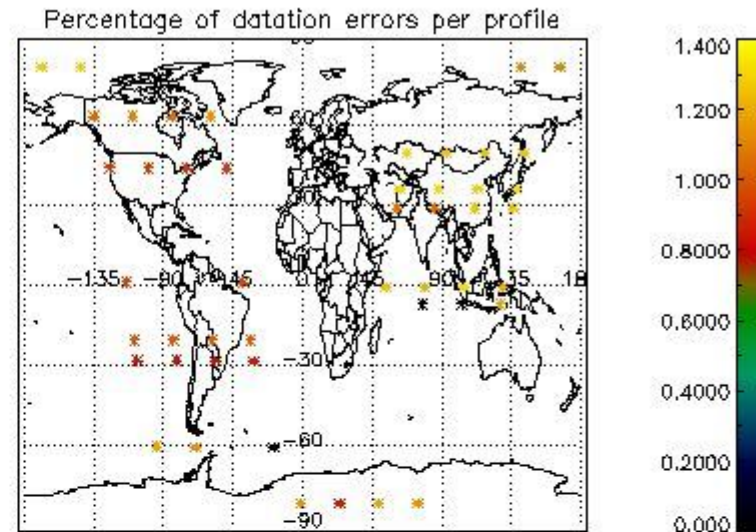
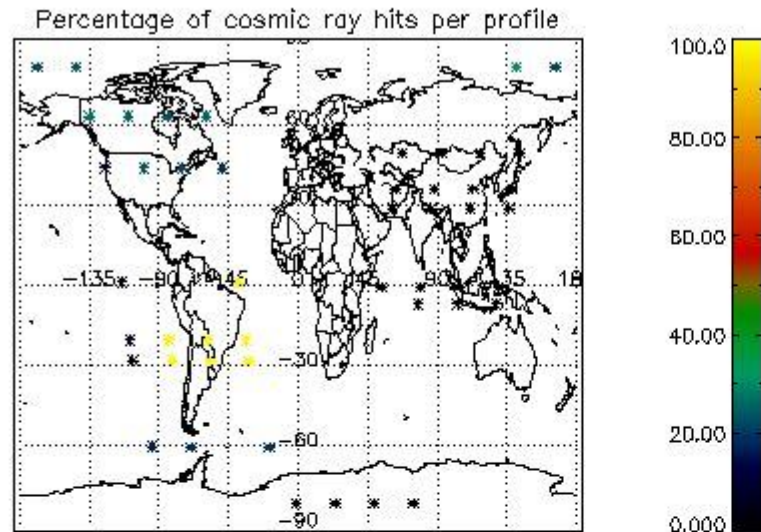
5.1 Percentage of products during reporting period with:

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)



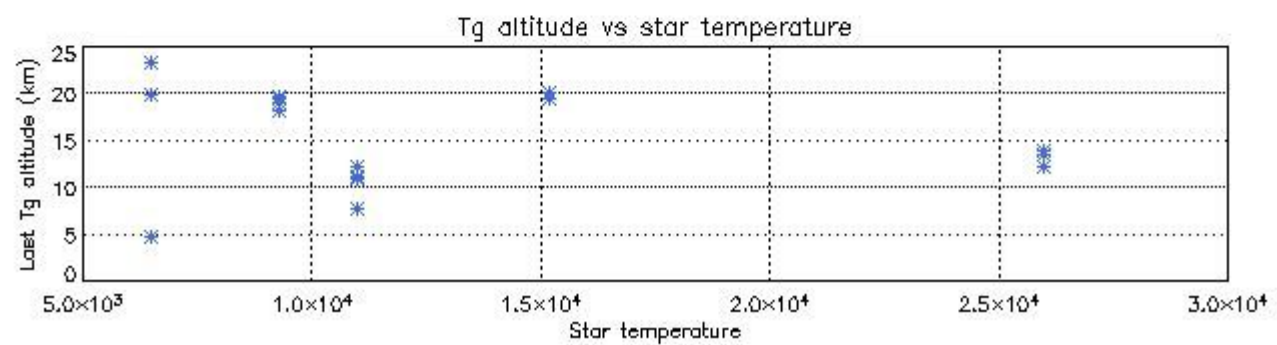
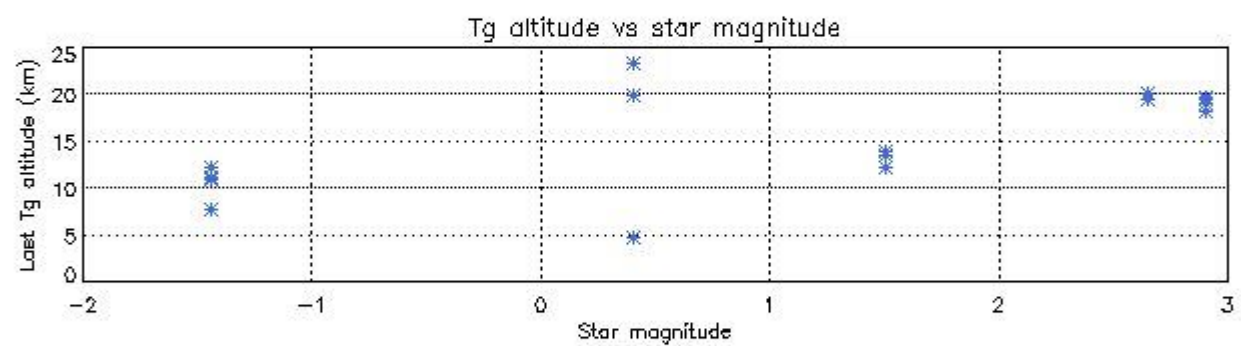
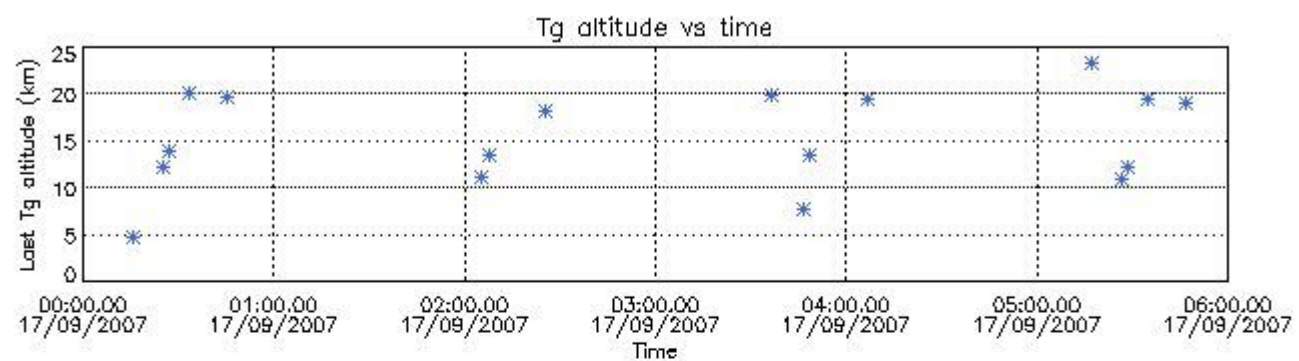
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.171	21.797	NaN
St. deviation:	5.1257	5.3166	NaN
Maximum:	23.235	34.707	NaN
Minimum:	4.6177	6.8067	NaN
Number of data:	17.000	23.000	NaN

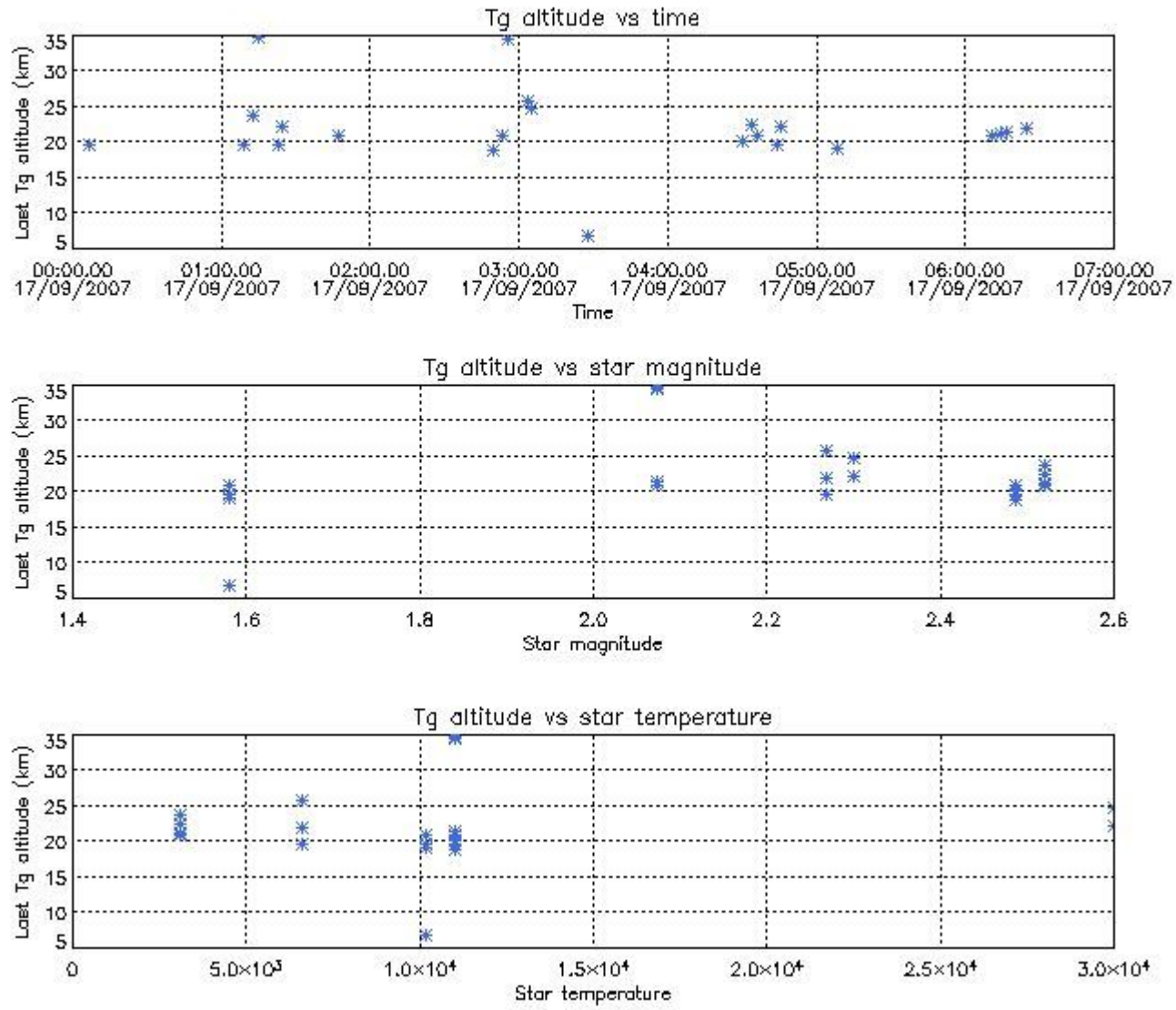
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

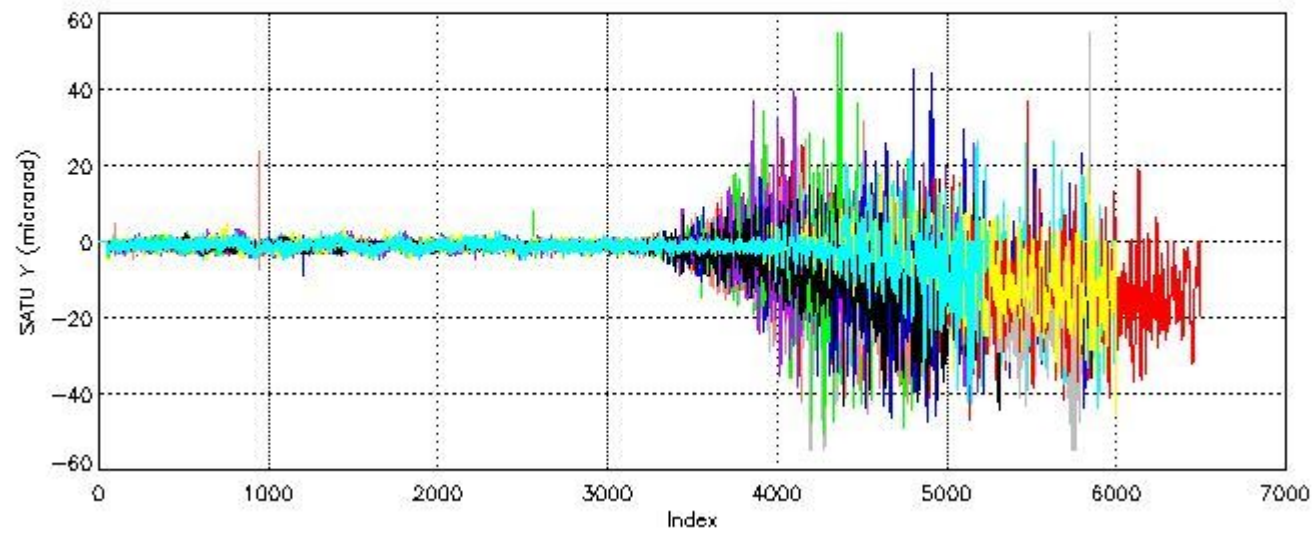
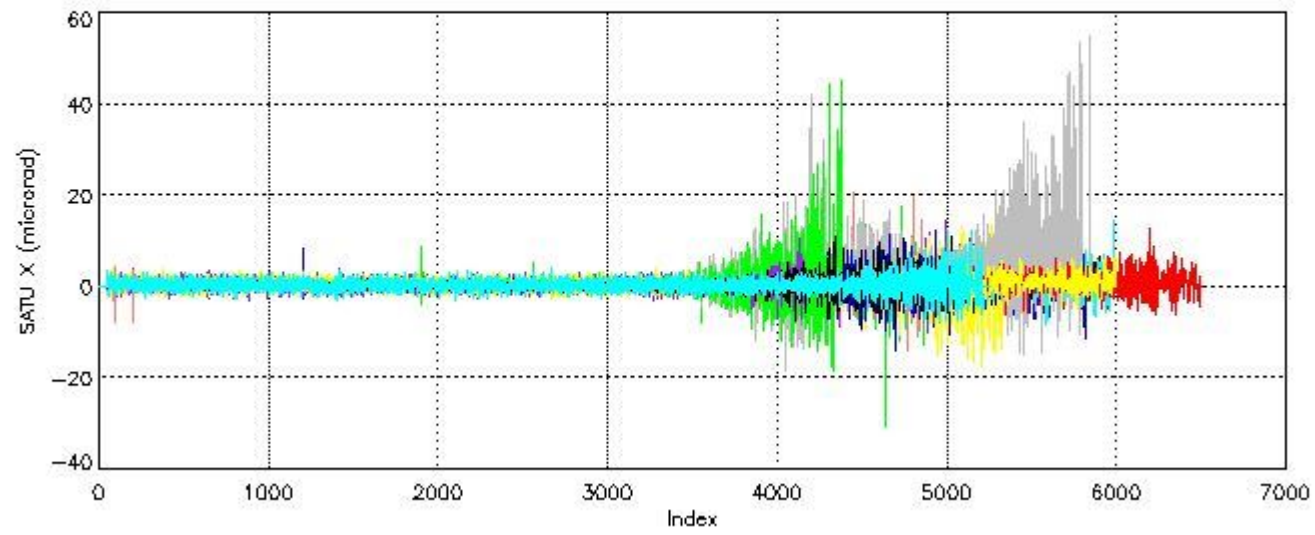


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30332	-1.1128	0.27045	-1.2004
St. deviation:	0.55419	1.0064	0.68631	1.1218
Maximum:	8.2000	23.500	4.0000	4.2000
Minimum:	-8.2000	-8.7000	-3.7000	-5.4000

Number of data:	20350.	20350.	22250.	22250.
-----------------	--------	--------	--------	--------

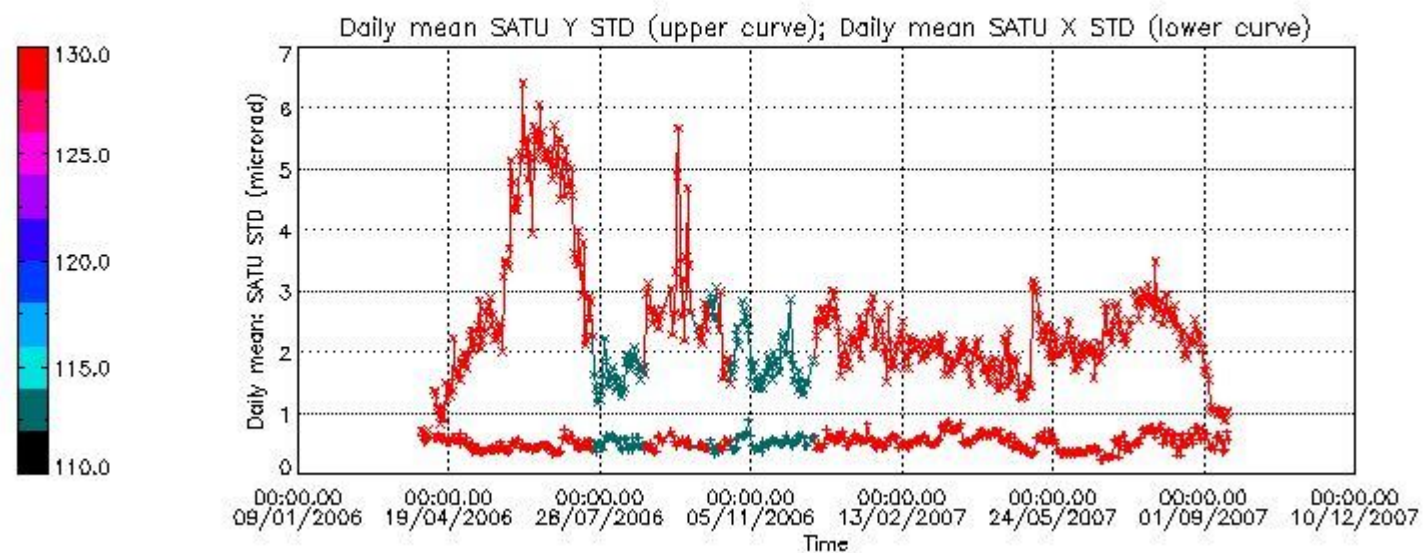
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

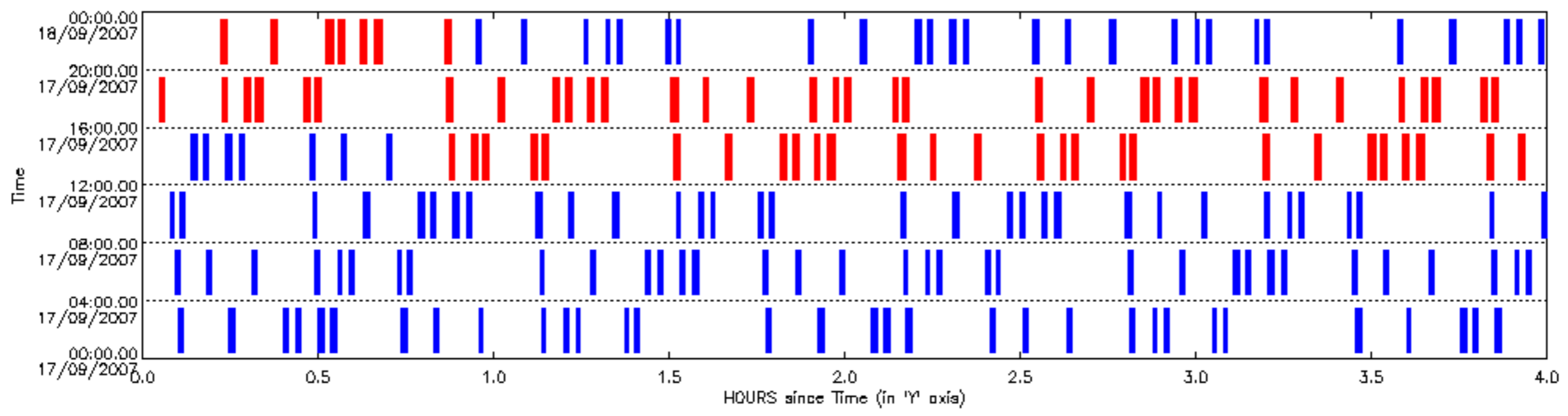
Lower curve: STD of SATU X axis

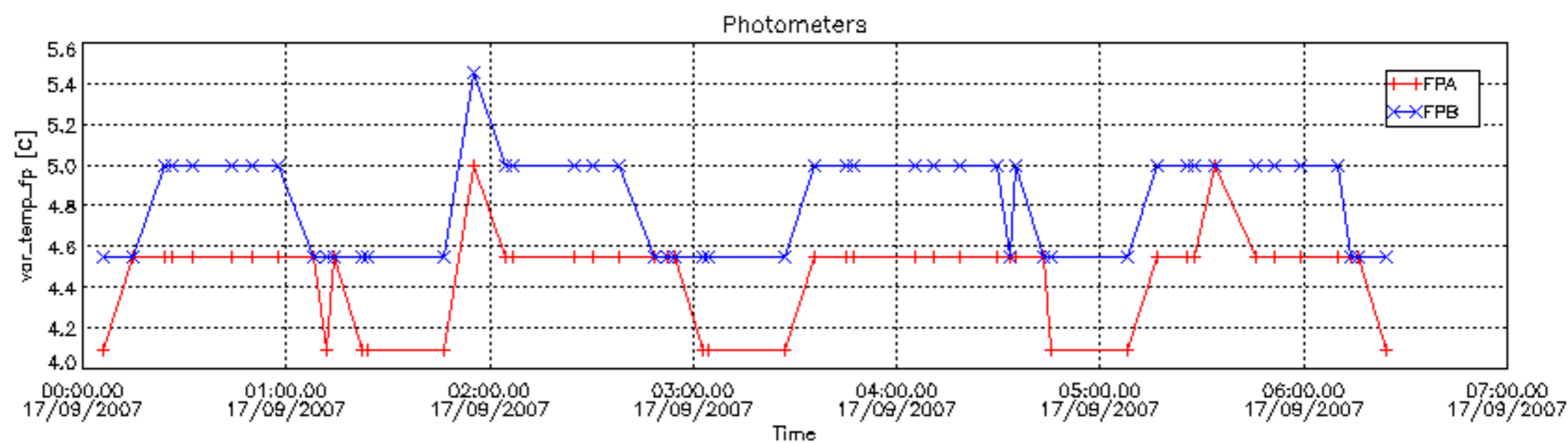
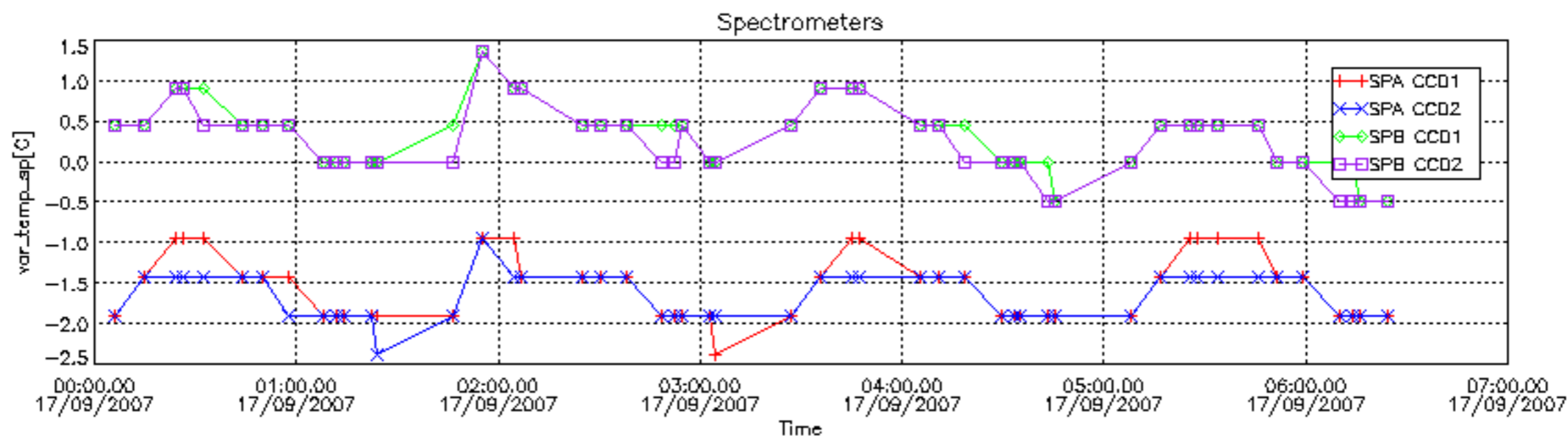


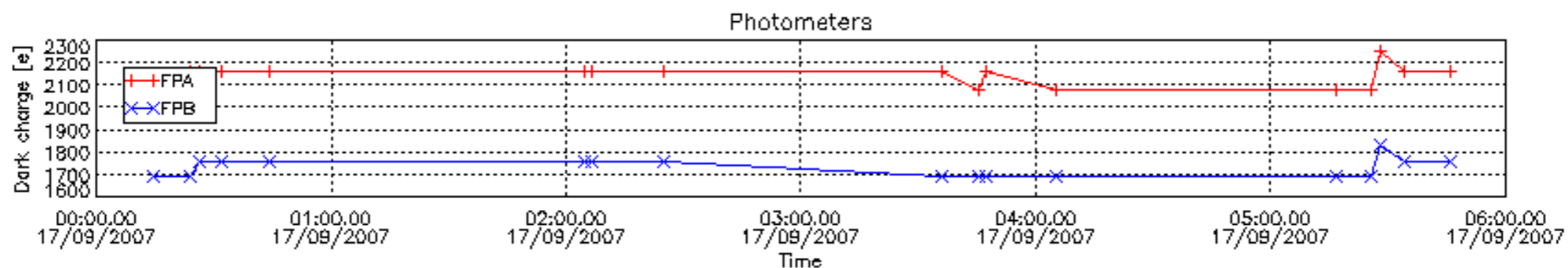
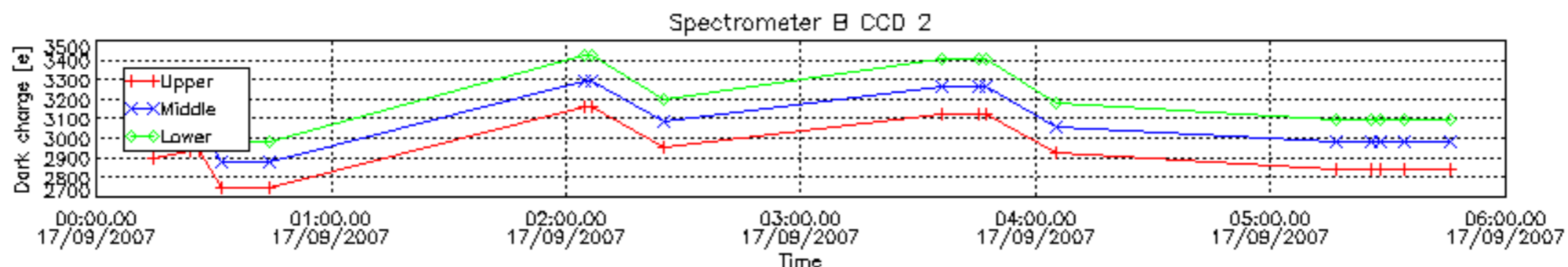
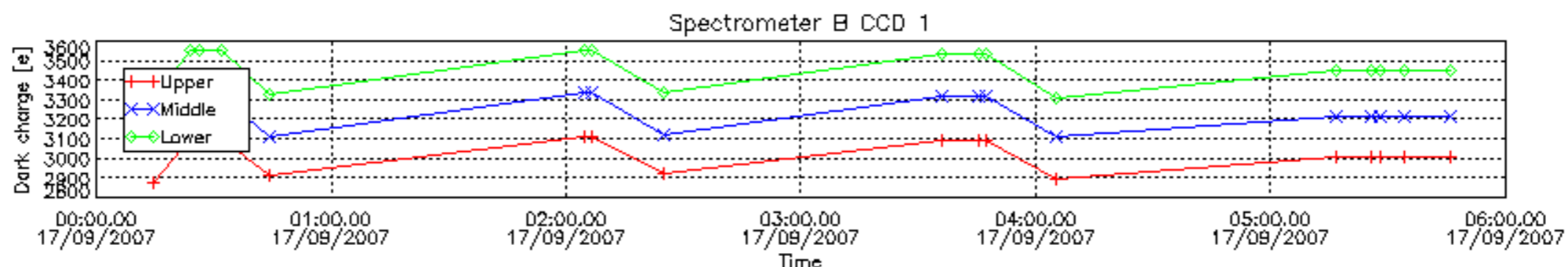
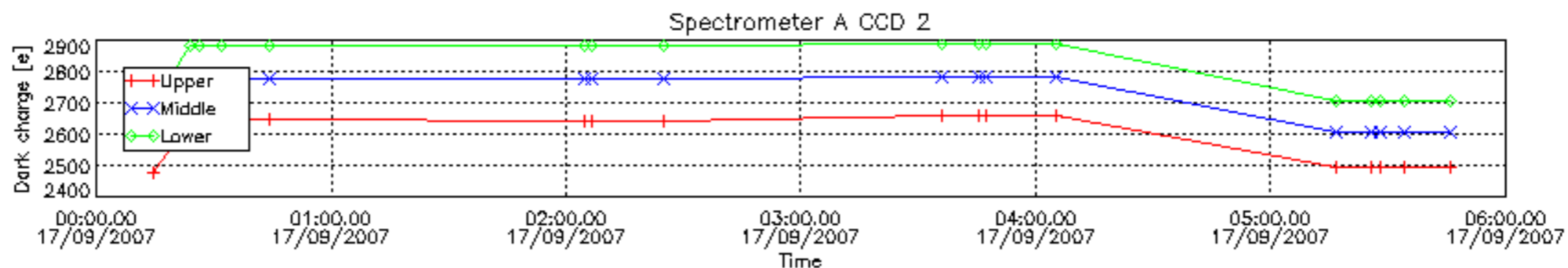
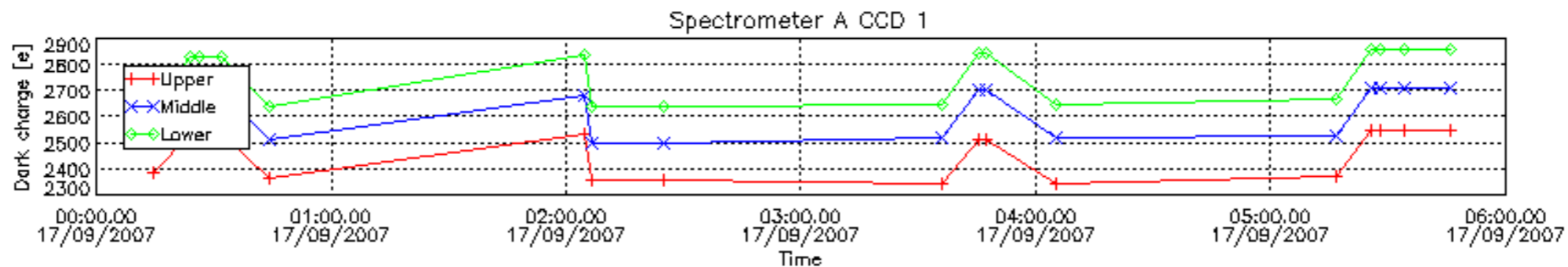
8. Auxiliary Data Files used for the production reported in section 2.4

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.

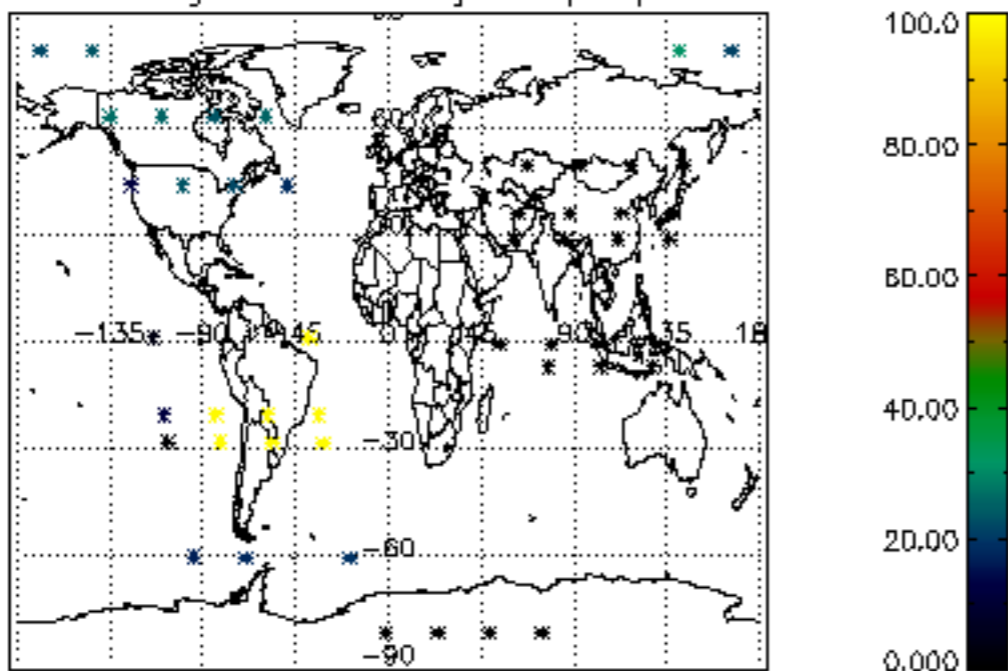
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	17-SEP-2007 00:06:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-SEP-2007 00:06:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-SEP-2007 00:06:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-SEP-2007 00:06:00
ECMWF_FILE	AUX_ECF_AXNECM20070916_070116_20070916_210000_20070917_090000	1	17-SEP-2007 00:06:00
ECMWF_FILE	AUX_ECF_AXNECM20070916_190115_20070917_030000_20070917_150000	26	17-SEP-2007 03:27:13
OPTIONAL_ECMWF_FILE	MISSING	1	17-SEP-2007 00:06:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070916_204722_000063762061_00386_28997_4190.N1	1	17-SEP-2007 00:06:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070917_001954_000054192061_00388_28999_4192.N1	3	17-SEP-2007 00:23:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070917_030955_000057382061_00390_29001_4194.N1	26	17-SEP-2007 03:27:13



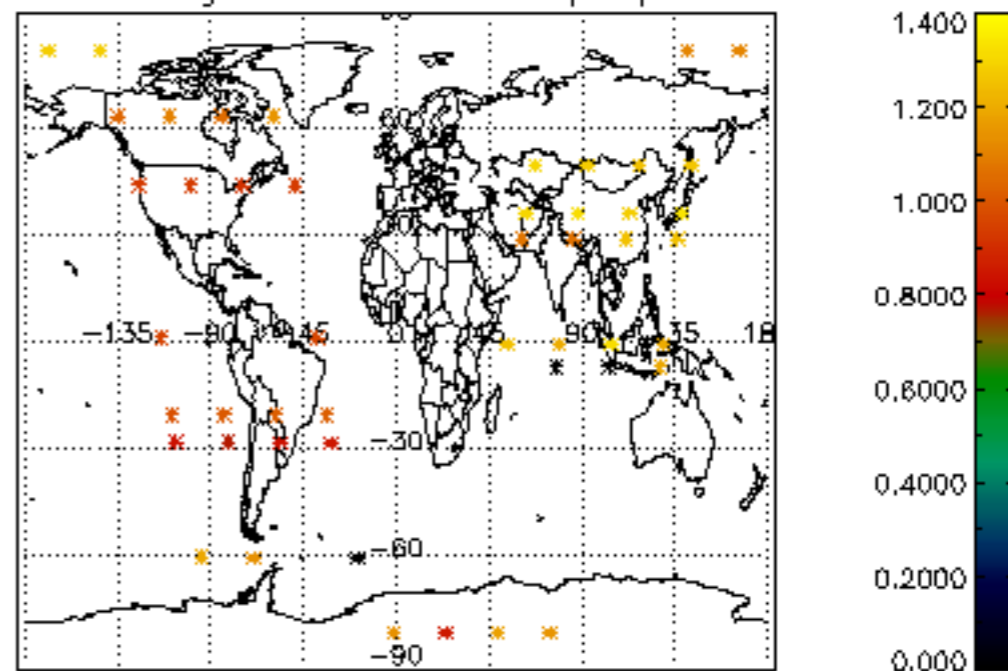




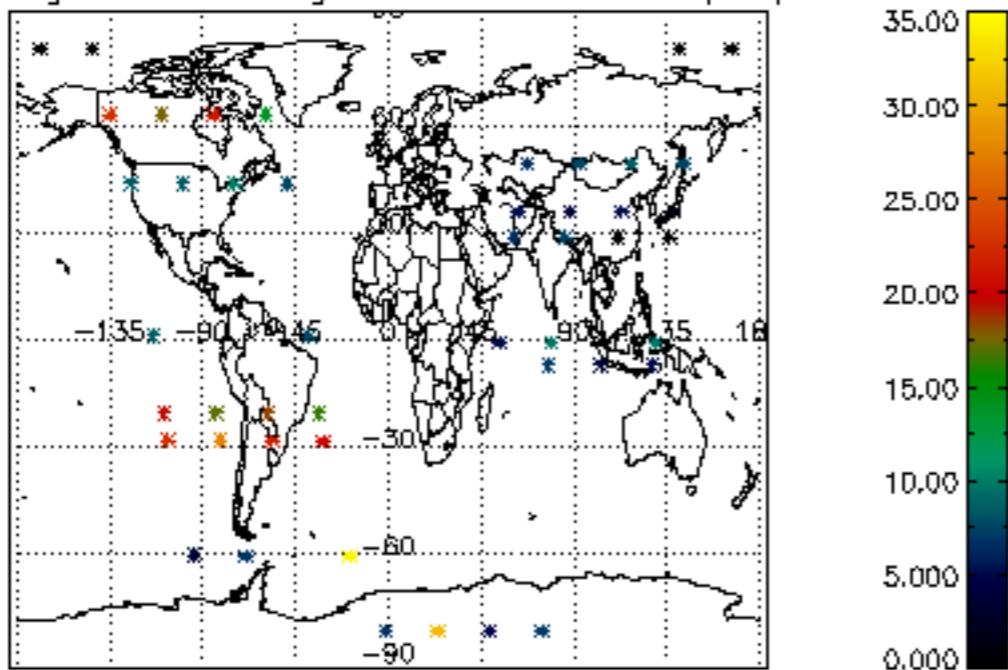
Percentage of cosmic ray hits per profile



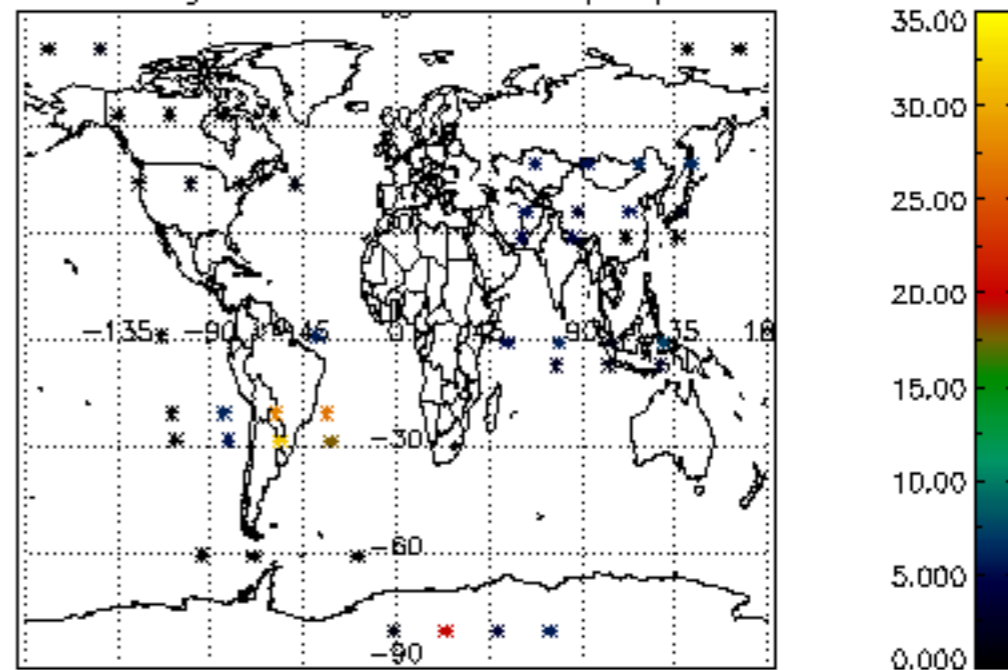
Percentage of datation errors per profile



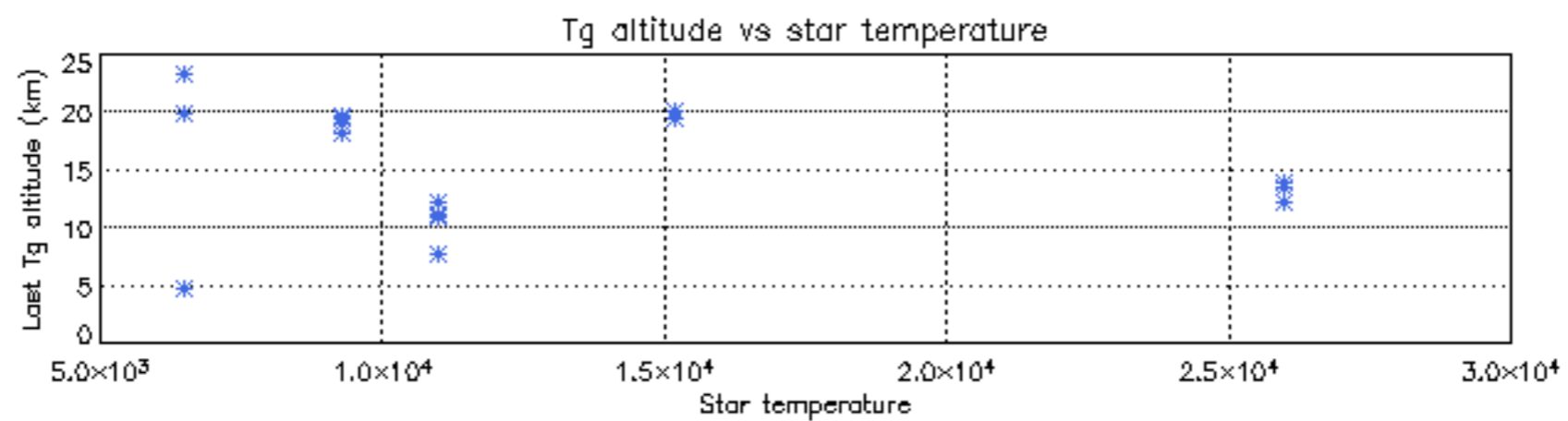
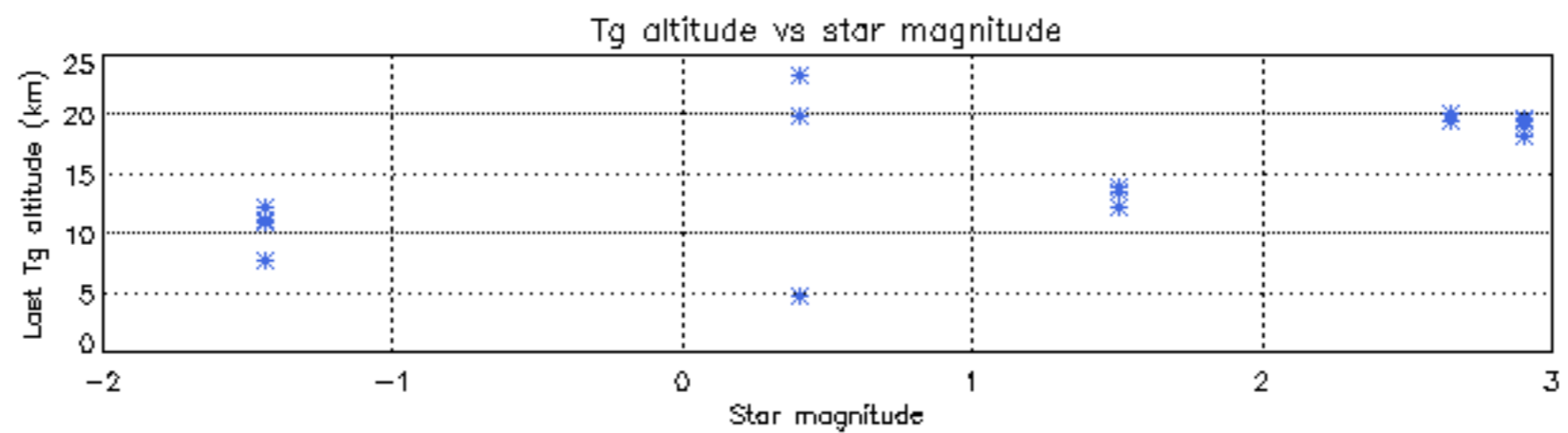
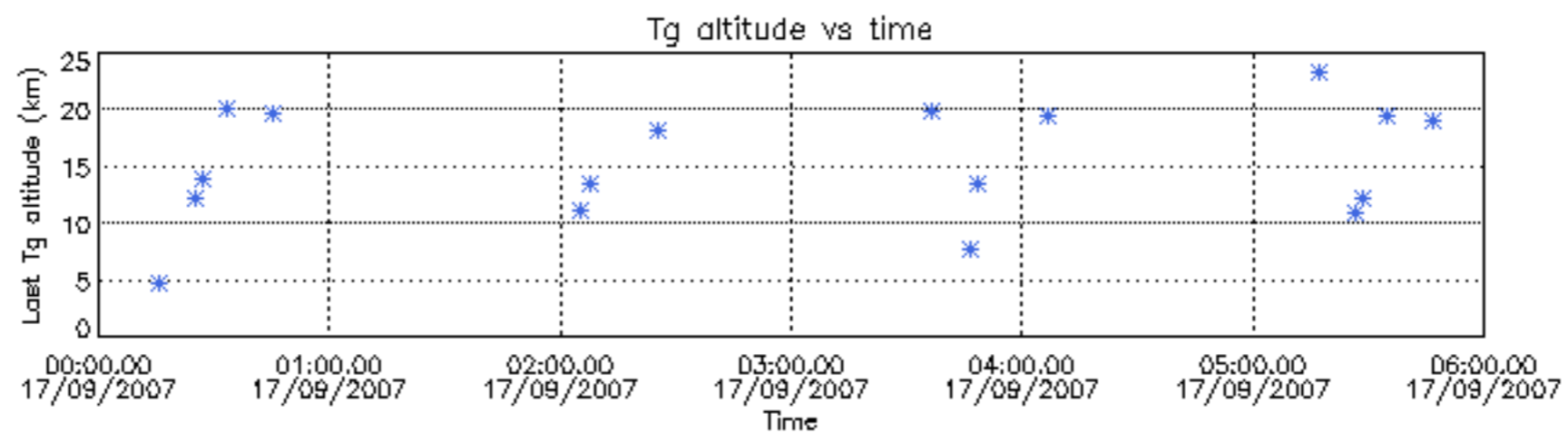
Percentage of star falling outside central band per profile



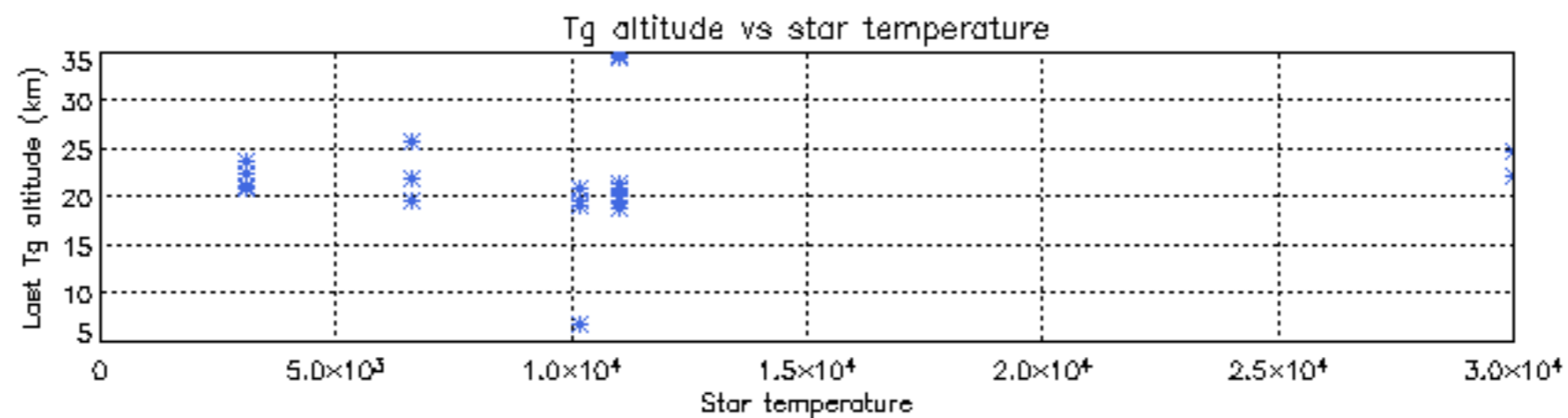
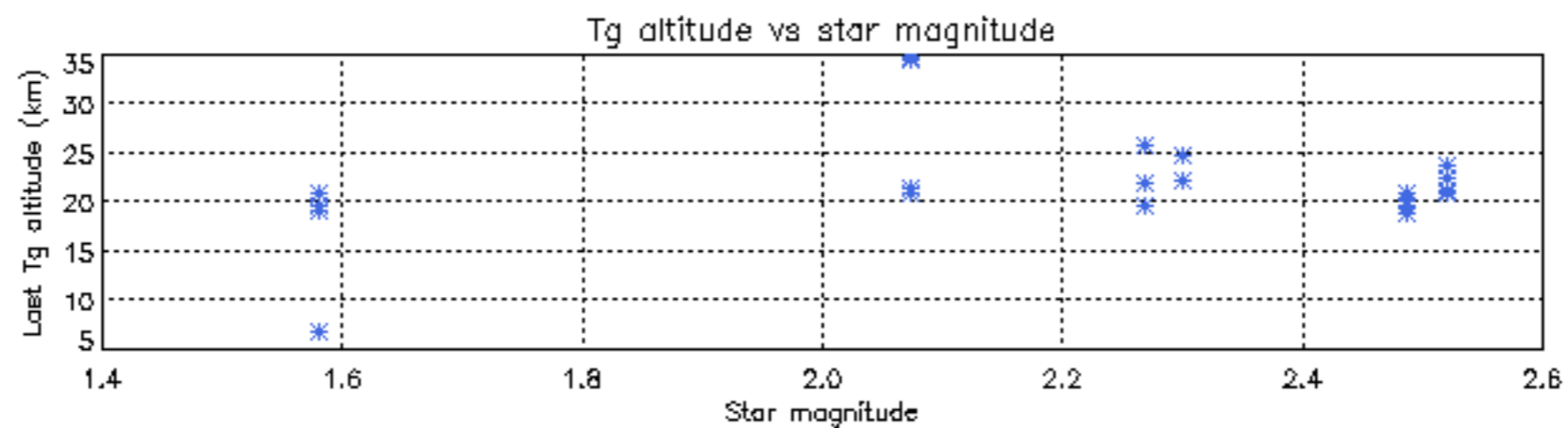
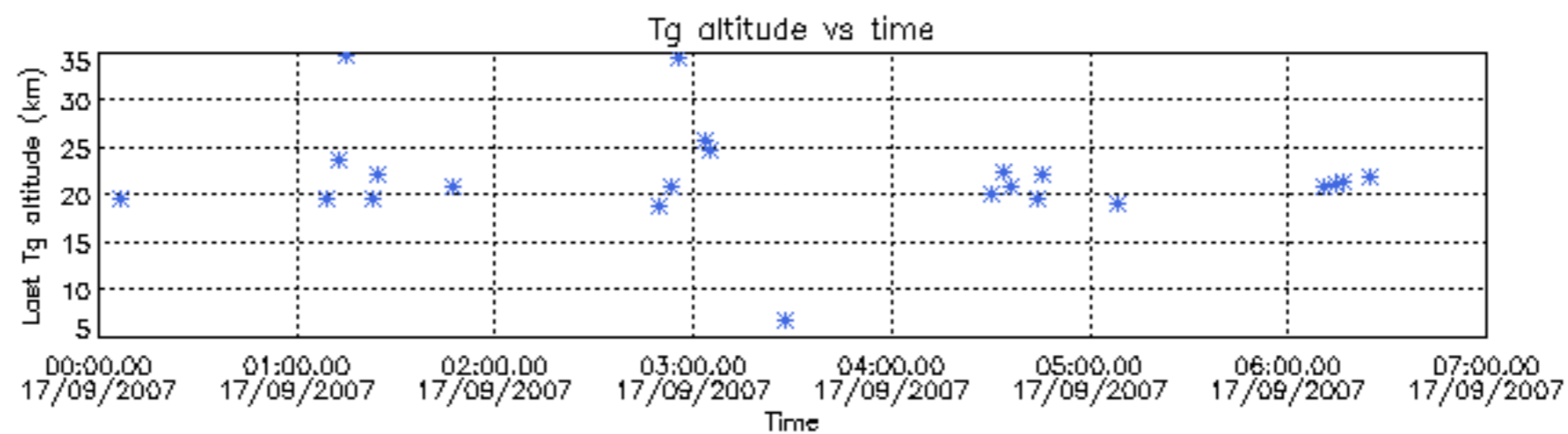
Percentage of saturation errors per profile

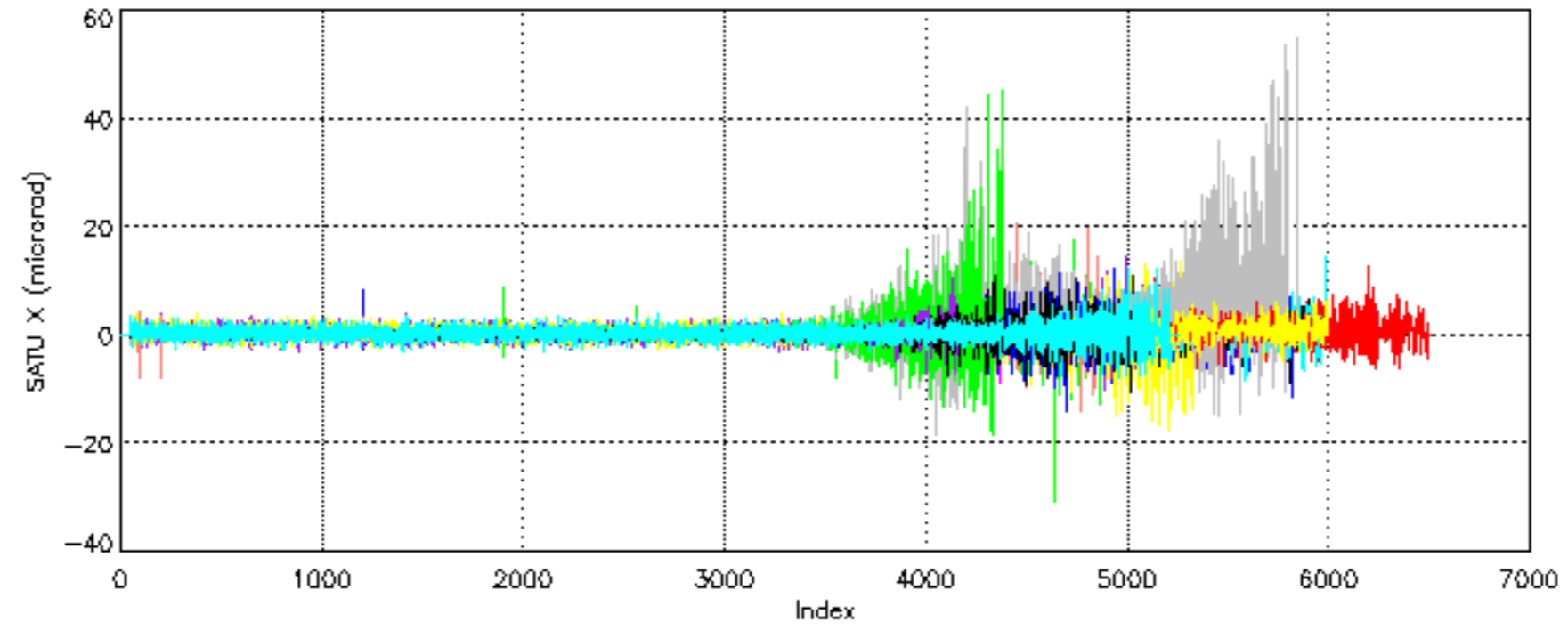


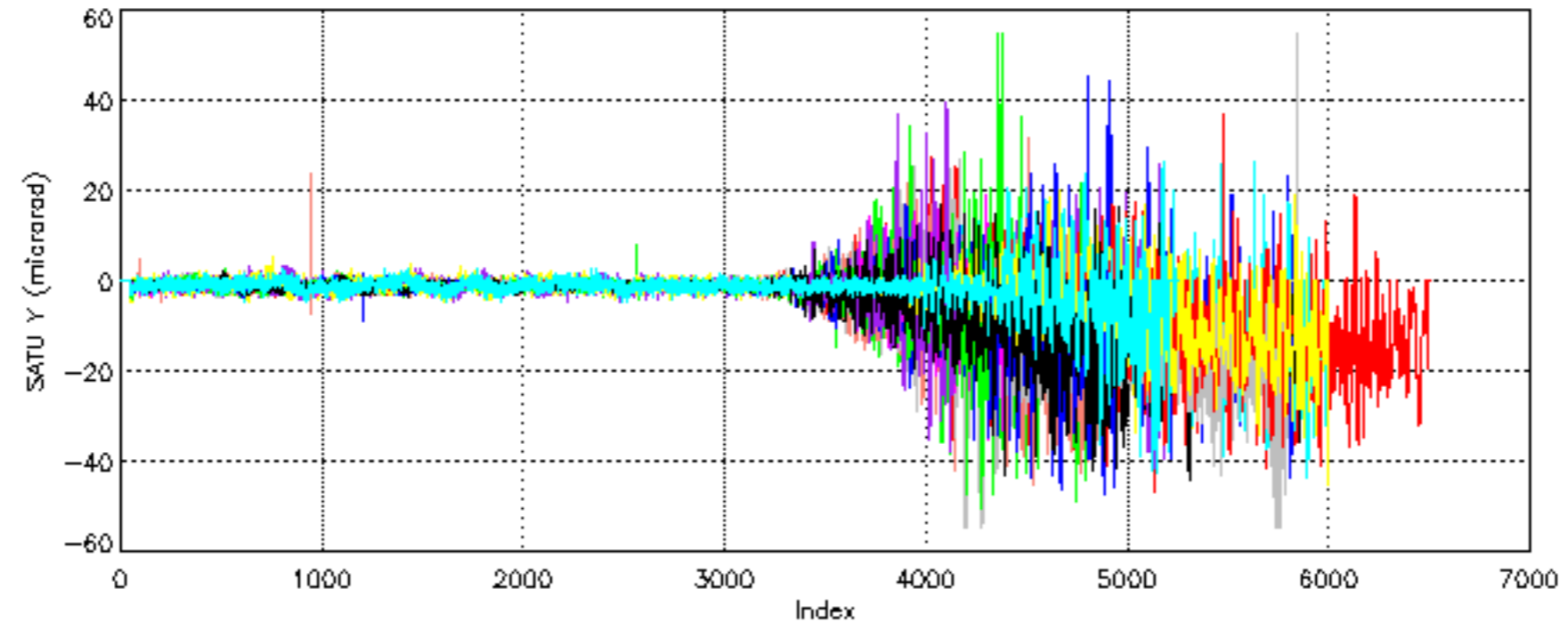
Tangent altitude at which the star is lost

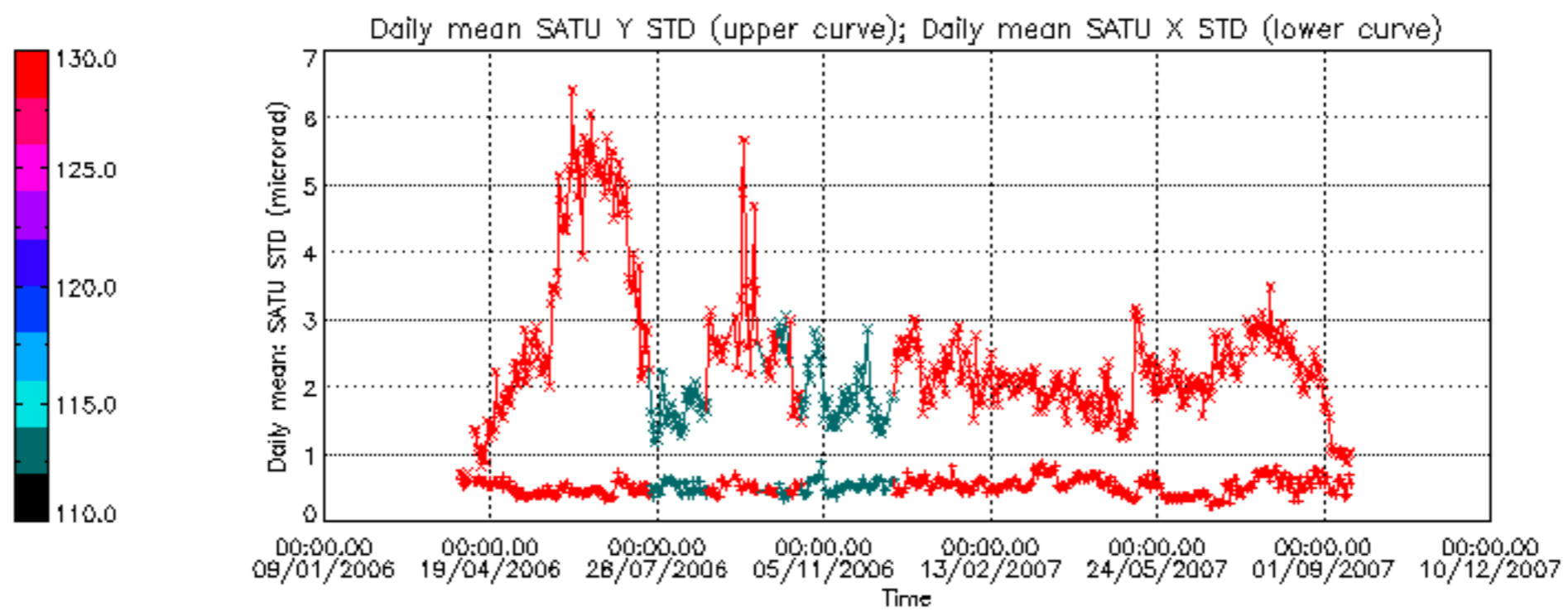


Tangent altitude at which the star is lost









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 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771
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 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
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 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772
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 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
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 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773
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 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773
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 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773
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 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773
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 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774

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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
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16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
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 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
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 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
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13; 5542.3; 01-SEP-2007 20:33:46; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;28782
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 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
 4; -87.7; 02-SEP-2007 01:42:19; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;28785

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8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
14; 3434.5; 02-SEP-2007 02:41:02; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28786

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14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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16; 2075.2; 02-SEP-2007 05:39:34; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28788
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797
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6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797
7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798
 10; 1335.3; 02-SEP-2007 22:13:13; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28798
 11; 1622.4; 02-SEP-2007 22:18:01; Dark ; 39.0; 142; 49Del Cap ; 2.85; 8900;occ; 78; 0;28798
 12; 1809.6; 02-SEP-2007 22:21:08; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28798
 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798
 14; 2074.8; 02-SEP-2007 22:25:33; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28798
 15; 2974.0; 02-SEP-2007 22:40:32; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28798
 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798
 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799
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 13; 5841.6; 03-SEP-2007 16:14:19; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;28808
 14; 5959.1; 03-SEP-2007 16:16:16; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;28808
 15; 6580.9; 03-SEP-2007 16:26:38; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28808
 16; 6659.5; 03-SEP-2007 16:27:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28808
 17; 7096.7; 03-SEP-2007 16:35:14; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;28808

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 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814
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 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
 4; 3960.2; 04-SEP-2007 21:53:44; Bright; 100.5; 79; 26Bet Per ; 2.31; 13100;occ; 201; 0;28826
 5; 4187.8; 04-SEP-2007 21:57:32; Bright; 84.0; 149; 45Eps Per ; 2.89; 30000;occ; 168; 0;28826
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 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
 5; -1402.9; 04-SEP-2007 08:40:09; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28818
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