

GOMOS Daily Report 27-JAN-2009

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	31JAN2009 05:44:45
Data source version	GOMOS/5.00
Start time of products	27JAN2009 20:00:37
Stop time of products	27JAN2009 22:42:28
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

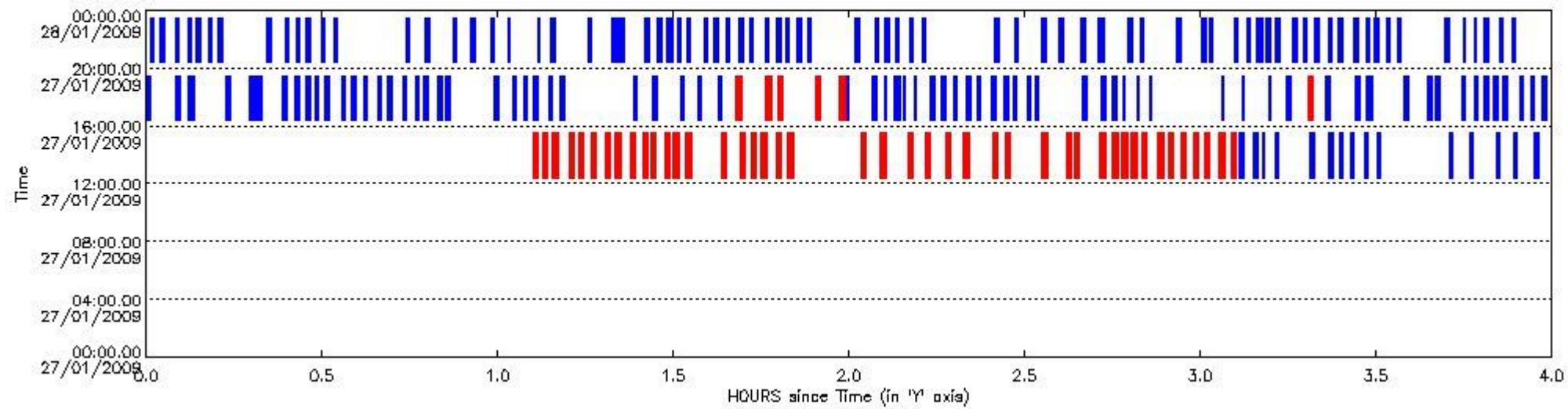
2.1 Level 0 products arrived in PCF (see template [here](#))

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
27-JAN-2009 13:05:57	DSA1027	0	36136
27-JAN-2009 13:07:34	Alp1Cen	4	36136
27-JAN-2009 13:09:16	EpsCen	77	36136
27-JAN-2009 13:12:10	Alp1Cru	12	36136
27-JAN-2009 13:13:55	DelCen	99	36136
27-JAN-2009 13:15:59	BetCar	29	36136
27-JAN-2009 13:18:15	lotCar	71	36136
27-JAN-2009 13:20:02	DelVel	46	36136
27-JAN-2009 13:22:36	Gam2Vel	34	36136
27-JAN-2009 13:24:42	ZetPup	70	36136
27-JAN-2009 13:26:09	PiPup	117	36136
27-JAN-2009 13:28:36	21EpsCMa	23	36136
27-JAN-2009 13:29:58	24Omi2CMa	179	36136
27-JAN-2009 13:32:08	9AlpCMa	1	36136
27-JAN-2009 13:38:05	10AlpCMi	8	36136

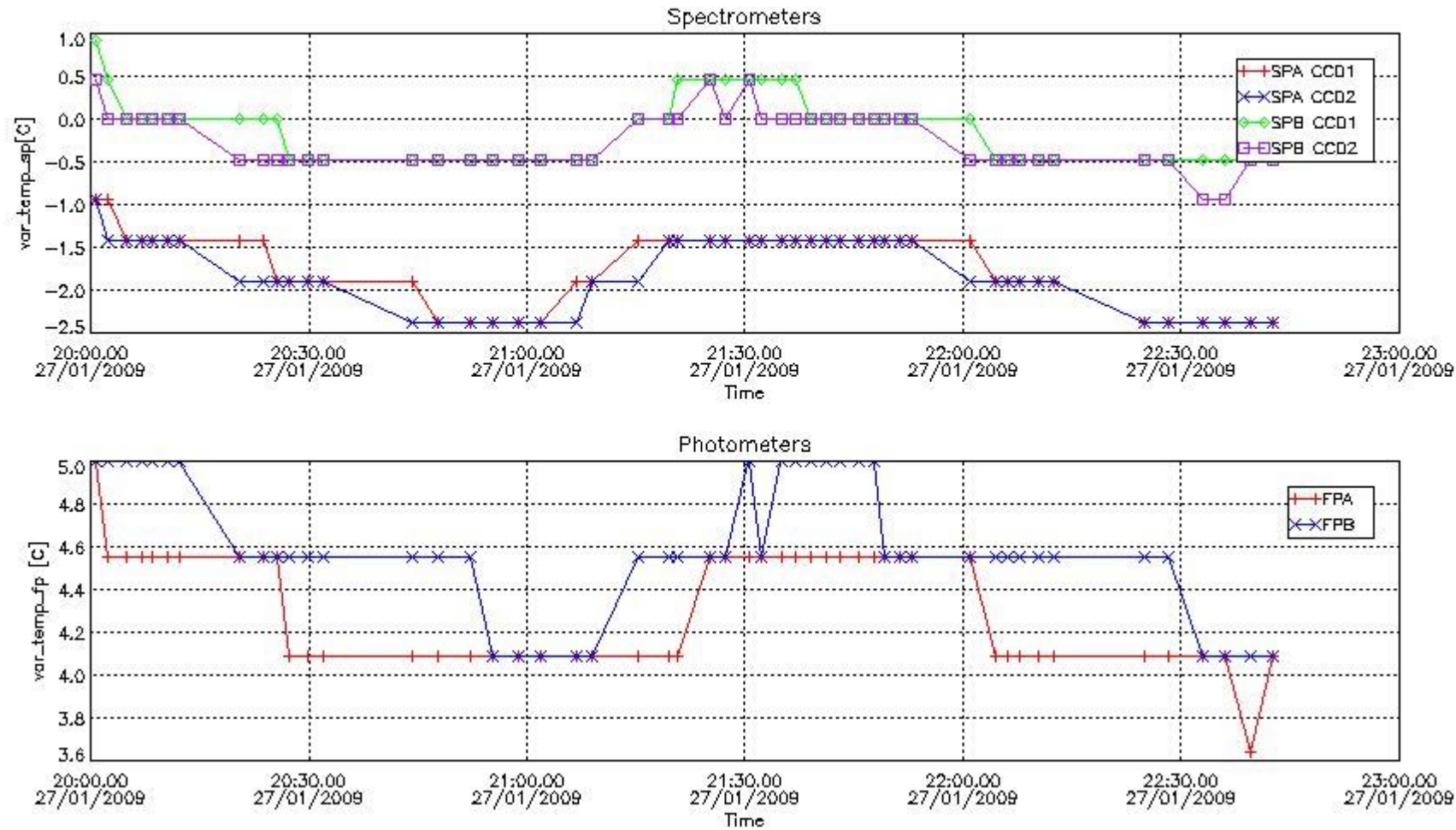
27-JAN-2009 13:41:24	24GamGem	44	36136
27-JAN-2009 13:43:12	13MuGem	151	36136
27-JAN-2009 13:44:57	78BetGem	17	36136
27-JAN-2009 13:47:27	37TheAur	107	36136
27-JAN-2009 13:49:34	34BetAur	42	36136
27-JAN-2009 14:01:59	1AlpUMi	49	36136
27-JAN-2009 14:05:20	7BetUMi	60	36136
27-JAN-2009 14:09:58	14EtaDra	119	36136
27-JAN-2009 14:12:59	23BetDra	130	36136
27-JAN-2009 14:16:28	3AlpLyr	5	36136
27-JAN-2009 14:19:31	40ZetHer	133	36136
27-JAN-2009 14:24:33	55AlpOph	59	36136
27-JAN-2009 14:26:40	60BetOph	126	36136
27-JAN-2009 14:32:58	35EtaOph	86	36136
27-JAN-2009 14:37:06	21AlpSco	16	36136
27-JAN-2009 14:38:25	26EpsSco	75	36136
27-JAN-2009 14:42:46	GamLup	131	36136
27-JAN-2009 14:44:53	BetLup	109	36136
27-JAN-2009 14:46:34	DSA1027	0	36137
27-JAN-2009 14:48:11	Alp1Cen	4	36137
27-JAN-2009 14:49:53	EpsCen	77	36137
27-JAN-2009 14:52:46	Alp1Cru	12	36137
27-JAN-2009 14:54:31	DelCen	99	36137
27-JAN-2009 14:56:36	BetCar	29	36137
27-JAN-2009 14:58:51	lotCar	71	36137
27-JAN-2009 15:00:38	DelVel	46	36137
27-JAN-2009 15:03:13	Gam2Vel	34	36137
27-JAN-2009 15:05:18	ZetPup	70	36137
27-JAN-2009 17:40:43	40ZetHer	133	36138
27-JAN-2009 17:45:45	55AlpOph	59	36138
27-JAN-2009 17:47:52	60BetOph	126	36138
27-JAN-2009 17:54:11	35EtaOph	86	36138
27-JAN-2009 17:58:19	21AlpSco	16	36138
27-JAN-2009 19:18:16	3AlpLyr	5	36139

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_1PNPDE20090127_200037_000000392076_00014_36140_4648.N1	27-JAN-2009 20:00:37	Dark	39.000	71	lot Car	2.2460	7700.0	78	36140	Yes
2	GOM_TRA_1PNPDE20090127_200224_000000422076_00014_36140_4649.N1	27-JAN-2009 20:02:24	Dark	41.500	46	Del Vel	1.9540	10600.	83	36140	No
3	GOM_TRA_1PNPDE20090127_200458_000000392076_00014_36140_4650.N1	27-JAN-2009 20:04:58	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	36140	No
4	GOM_TRA_1PNPDE20090127_200704_000000382076_00014_36140_4651.N1	27-JAN-2009 20:07:04	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	36140	No
5	GOM_TRA_1PNPDE20090127_200830_000000422076_00014_36140_4652.N1	27-JAN-2009 20:08:30	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	36140	No
6	GOM_TRA_1PNPDE20090127_201035_000000402076_00014_36140_4653.N1	27-JAN-2009 20:10:35	Straylight	40.000	88	31Eta CMa	2.4480	20000.	80	36140	No
7	GOM_TRA_1PNPDE20090127_201220_000000352076_00014_36140_4654.N1	27-JAN-2009 20:12:20	Straylight	34.500	179	24Omi2CMa	3.0320	24000.	69	36140	No
8	GOM_TRA_1PNPDE20090127_202026_000000502076_00014_36140_4655.N1	27-JAN-2009 20:20:26	Twilight	49.500	8	10Alp CMi	0.40000	6500.0	99	36140	No
9	GOM_TRA_1PNPDE20090127_202345_000000382076_00014_36140_4656.N1	27-JAN-2009 20:23:45	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	36140	No
10	GOM_TRA_1PNPDE20090127_202533_000000382076_00014_36140_4657.N1	27-JAN-2009 20:25:33	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	36140	No
11	GOM_TRA_1PNPDE20090127_202717_000000402076_00014_36140_4658.N1	27-JAN-2009 20:27:17	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	36140	No
12	GOM_TRA_1PNPDE20090127_202949_000000362076_00014_36140_4659.N1	27-JAN-2009 20:29:49	Bright	36.000	107	37The Aur	2.6490	11000.	72	36140	No
13	GOM_TRA_1PNPDE20090127_203156_000000372076_00014_36140_4660.N1	27-JAN-2009 20:31:56	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	36140	No
14	GOM_TRA_1PNPDE20090127_204420_000000362076_00014_36140_4661.N1	27-JAN-2009 20:44:20	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	36140	No
15	GOM_TRA_1PNPDE20090127_204740_000000362076_00014_36140_4662.N1	27-JAN-2009 20:47:40	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	36140	No
16	GOM_TRA_1PNPDE20090127_205218_000000402076_00014_36140_4663.N1	27-JAN-2009 20:52:18	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	36140	No
17	GOM_TRA_1PNPDE20090127_205519_000000542076_00014_36140_4664.N1	27-JAN-2009 20:55:19	Bright	54.000	130	23Bet Dra	2.7990	5800.0	108	36140	No
18	GOM_TRA_1PNPDE20090127_205849_000000402076_00014_36140_4665.N1	27-JAN-2009 20:58:49	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	36140	No
19	GOM_TRA_1PNPDE20090127_210152_000000102076_00014_36140_4666.N1	27-JAN-2009 21:01:52	Straylight	10.000	133	40Zet Her	2.8070	6000.0	20	36140	No
20	GOM_TRA_1PNPDE20090127_210654_000000102076_00014_36140_4667.N1	27-JAN-2009 21:06:54	Straylight	10.000	59	55Alp Oph	2.0800	8900.0	20	36140	No

21	GOM_TRA_1PNPDE20090127_210902_000000532076_00014_36140_4668.N1	27-JAN-2009 21:09:02	Bright	52.500	126	60Bet Oph	2.7700	4250.0	105	36140	No
22	GOM_TRA_1PNPDE20090127_211521_000000412076_00014_36140_4797.N1	27-JAN-2009 21:15:21	Twilight	40.500	86	35Eta Oph	2.4300	10200.	81	36140	No
23	GOM_TRA_1PNPDE20090127_211929_000000572076_00014_36140_4798.N1	27-JAN-2009 21:19:29	Dark	56.500	16	21Alp Sco	1.0200	3000.0	113	36140	No
24	GOM_TRA_1PNPDE20090127_212048_000000452076_00014_36140_4799.N1	27-JAN-2009 21:20:48	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	36140	No
25	GOM_TRA_1PNPDE20090127_212510_000000422076_00014_36140_4800.N1	27-JAN-2009 21:25:10	Dark	41.500	131	Gam Lup	2.8000	26000.	83	36140	No
26	GOM_TRA_1PNPDE20090127_212717_000000422076_00014_36140_4801.N1	27-JAN-2009 21:27:17	Dark	42.000	109	Bet Lup	2.6770	26000.	84	36140	No
27	GOM_TRA_1PNPDE20090127_213034_000000432076_00015_36141_4802.N1	27-JAN-2009 21:30:34	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	36141	No
28	GOM_TRA_1PNPDE20090127_213216_000000432076_00015_36141_4803.N1	27-JAN-2009 21:32:16	Dark	42.500	77	Eps Cen	2.3030	28000.	85	36141	No
29	GOM_TRA_1PNPDE20090127_213509_000000402076_00015_36141_4804.N1	27-JAN-2009 21:35:09	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	36141	No
30	GOM_TRA_1PNPDE20090127_213656_000000482076_00015_36141_4805.N1	27-JAN-2009 21:36:56	Dark	47.500	99	Del Cen	2.5750	26000.	95	36141	No
31	GOM_TRA_1PNPDE20090127_213857_000000392076_00015_36141_4806.N1	27-JAN-2009 21:38:57	Dark	38.500	29	Bet Car	1.6720	10200.	77	36141	No
32	GOM_TRA_1PNPDE20090127_214113_000000392076_00015_36141_4807.N1	27-JAN-2009 21:41:13	Dark	39.000	71	lot Car	2.2460	7700.0	78	36141	No
33	GOM_TRA_1PNPDE20090127_214300_000000392076_00015_36141_4808.N1	27-JAN-2009 21:43:00	Dark	38.500	46	Del Vel	1.9540	10600.	77	36141	No
34	GOM_TRA_1PNPDE20090127_214534_000000392076_00015_36141_4809.N1	27-JAN-2009 21:45:34	Dark	38.500	34	Gam2Vel	1.7930	23000.	77	36141	No
35	GOM_TRA_1PNPDE20090127_214740_000000392076_00015_36141_4810.N1	27-JAN-2009 21:47:40	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	36141	No
36	GOM_TRA_1PNPDE20090127_214906_000000452076_00015_36141_4811.N1	27-JAN-2009 21:49:06	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	36141	No
37	GOM_TRA_1PNPDE20090127_215111_000000402076_00015_36141_4812.N1	27-JAN-2009 21:51:11	Straylight	39.500	88	31Eta CMa	2.4480	20000.	79	36141	No
38	GOM_TRA_1PNPDE20090127_215256_000000392076_00015_36141_4813.N1	27-JAN-2009 21:52:56	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	36141	No
39	GOM_TRA_1PNPDE20090127_220102_000000472076_00015_36141_4814.N1	27-JAN-2009 22:01:02	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	36141	No
40	GOM_TRA_1PNPDE20090127_220421_000000382076_00015_36141_4815.N1	27-JAN-2009 22:04:21	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	36141	No
41	GOM_TRA_1PNPDE20090127_220609_000000382076_00015_36141_4816.N1	27-JAN-2009 22:06:09	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	36141	No
42	GOM_TRA_1PNPDE20090127_220752_000000422076_00015_36141_4817.N1	27-JAN-2009 22:07:52	Bright	42.000	17	78Bet Gem	1.1610	4500.0	84	36141	No
43	GOM_TRA_1PNPDE20090127_221025_000000352076_00015_36141_4818.N1	27-JAN-2009 22:10:25	Bright	35.000	107	37The Aur	2.6490	11000.	70	36141	No
44	GOM_TRA_1PNPDE20090127_221232_000000372076_00015_36141_4819.N1	27-JAN-2009 22:12:32	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	36141	No
45	GOM_TRA_1PNPDE20090127_222456_000000362076_00015_36141_4820.N1	27-JAN-2009 22:24:56	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	36141	No
46	GOM_TRA_1PNPDE20090127_222815_000000412076_00015_36141_4821.N1	27-JAN-2009 22:28:15	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	36141	No
47	GOM_TRA_1PNPDE20090127_223254_000000402076_00015_36141_4822.N1	27-JAN-2009 22:32:54	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	36141	No
48	GOM_TRA_1PNPDE20090127_223555_000000392076_00015_36141_4823.N1	27-JAN-2009 22:35:55	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	36141	No
49	GOM_TRA_1PNPDE20090127_223925_000000522076_00015_36141_4824.N1	27-JAN-2009 22:39:25	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	36141	No
50	GOM_TRA_1PNPDE20090127_224228_000000602076_00015_36141_4825.N1	27-JAN-2009 22:42:28	Bright	60.000	133	40Zet Her	2.8070	6000.0	120	36141	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).

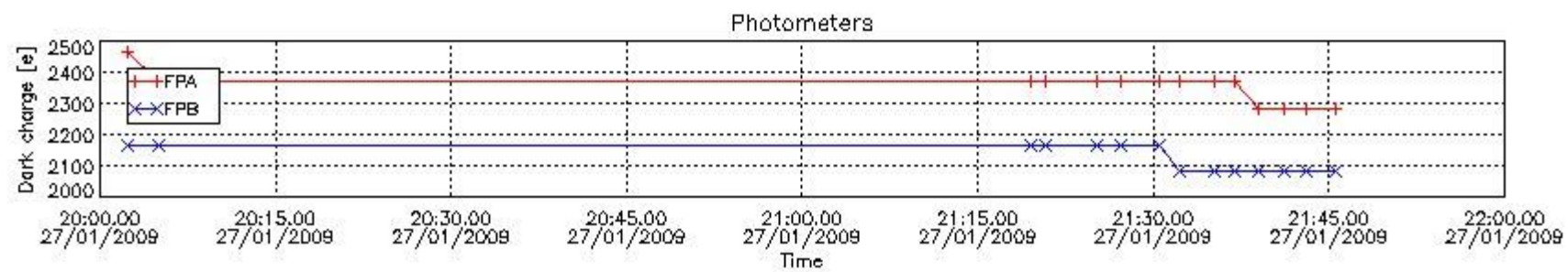
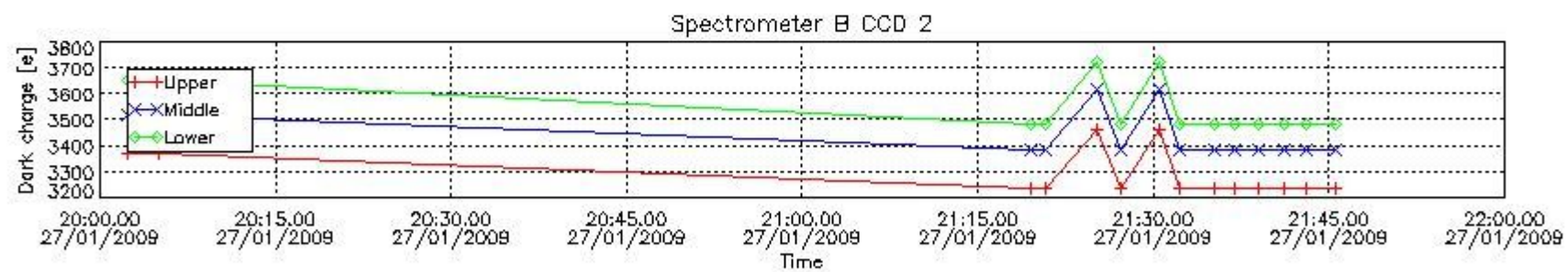
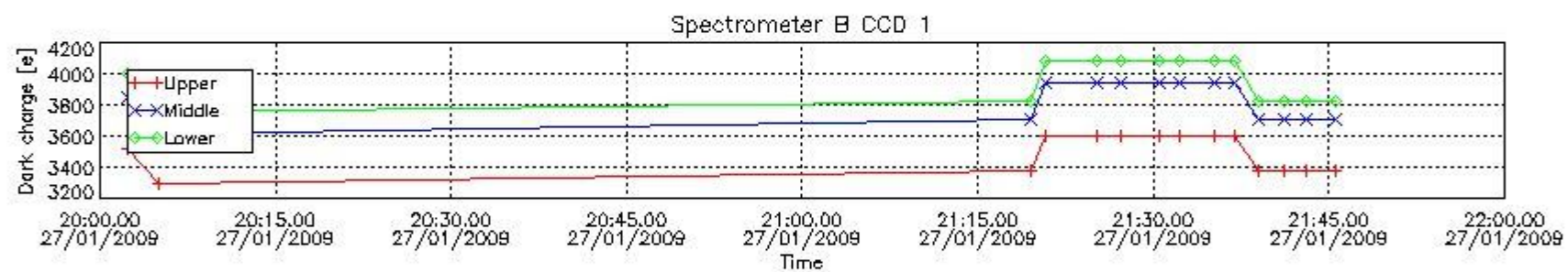
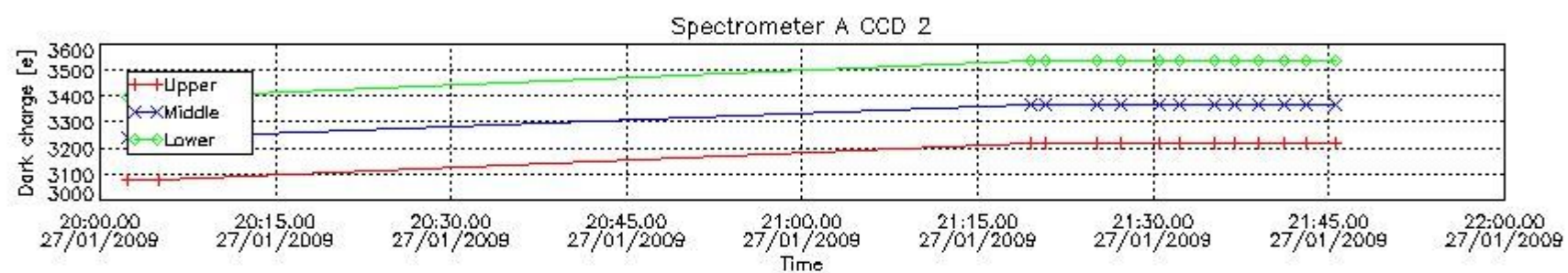
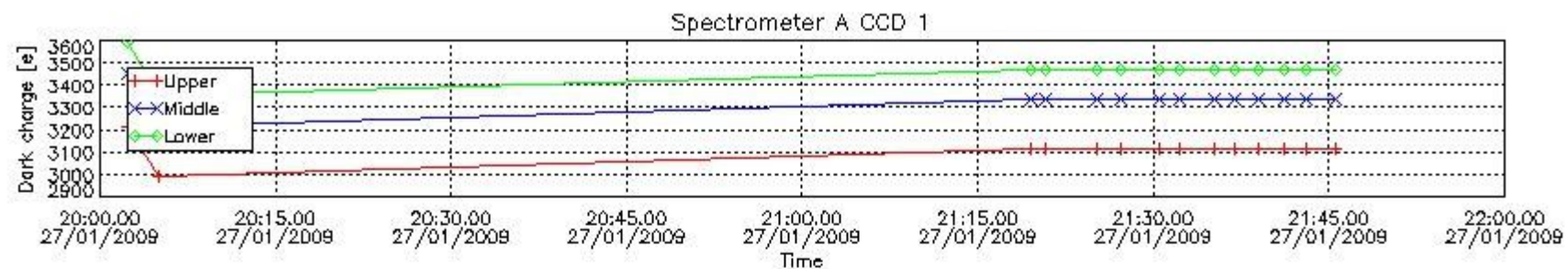
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090127_200037_000000392076_00014_36140_4648.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090127_200224_000000422076_00014_36140_4649.N1	DC map used
GOM_TRA_1PNPDE20090127_200458_000000392076_00014_36140_4650.N1	DC map used
GOM_TRA_1PNPDE20090127_200704_000000382076_00014_36140_4651.N1	DC map used
GOM_TRA_1PNPDE20090127_200830_000000422076_00014_36140_4652.N1	DC map used
GOM_TRA_1PNPDE20090127_201035_000000402076_00014_36140_4653.N1	DC map used
GOM_TRA_1PNPDE20090127_201220_000000352076_00014_36140_4654.N1	DC map used
GOM_TRA_1PNPDE20090127_202026_000000502076_00014_36140_4655.N1	DC map used
GOM_TRA_1PNPDE20090127_202345_000000382076_00014_36140_4656.N1	DC map used
GOM_TRA_1PNPDE20090127_202533_000000382076_00014_36140_4657.N1	DC map used
GOM_TRA_1PNPDE20090127_202717_000000402076_00014_36140_4658.N1	DC map used
GOM_TRA_1PNPDE20090127_202949_000000362076_00014_36140_4659.N1	DC map used
GOM_TRA_1PNPDE20090127_203156_000000372076_00014_36140_4660.N1	DC map used
GOM_TRA_1PNPDE20090127_204420_000000362076_00014_36140_4661.N1	DC map used

GOM_TRA_1PNPDE20090127_204740_000000362076_00014_36140_4662.N1	DC map used
GOM_TRA_1PNPDE20090127_205218_000000402076_00014_36140_4663.N1	DC map used
GOM_TRA_1PNPDE20090127_205519_000000542076_00014_36140_4664.N1	DC map used
GOM_TRA_1PNPDE20090127_205849_000000402076_00014_36140_4665.N1	DC map used
GOM_TRA_1PNPDE20090127_210152_000000102076_00014_36140_4666.N1	DC map used
GOM_TRA_1PNPDE20090127_210654_000000102076_00014_36140_4667.N1	DC map used
GOM_TRA_1PNPDE20090127_210902_000000532076_00014_36140_4668.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



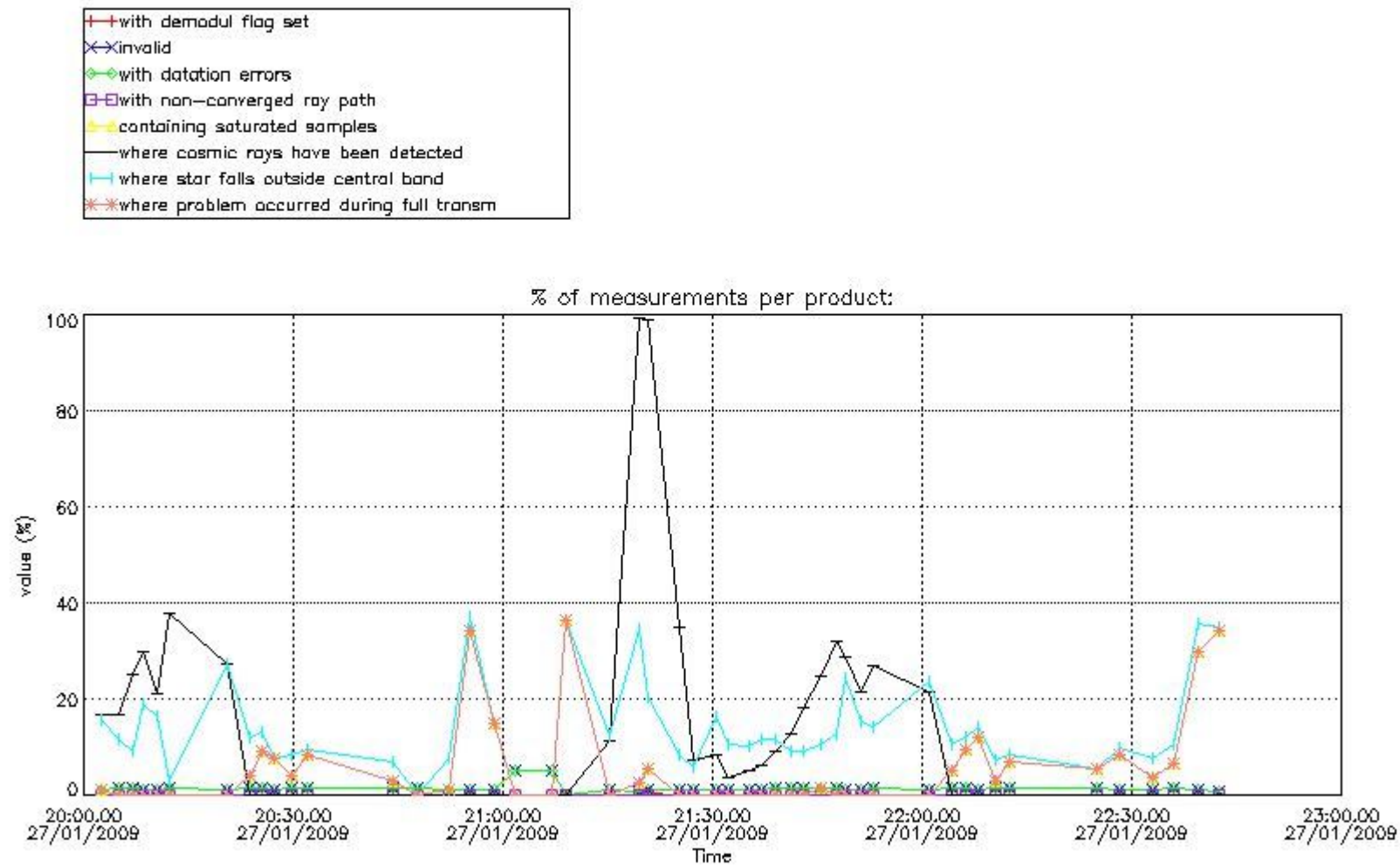
5. Demodulation flag and quality information monitoring

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.

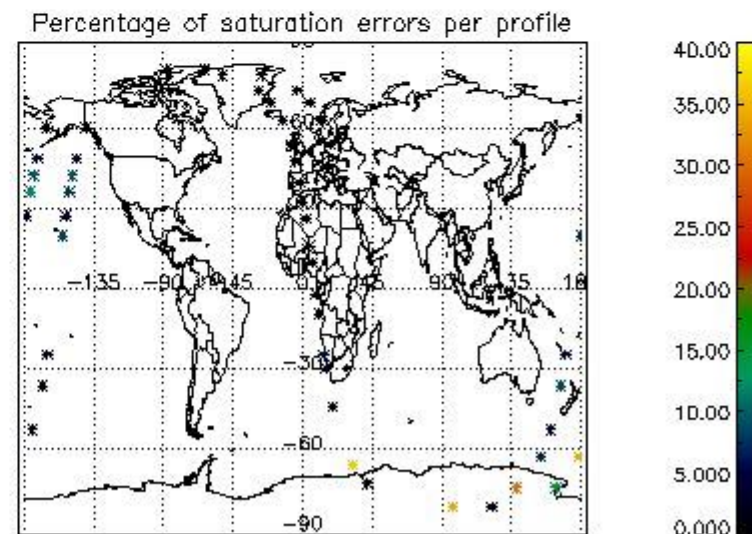
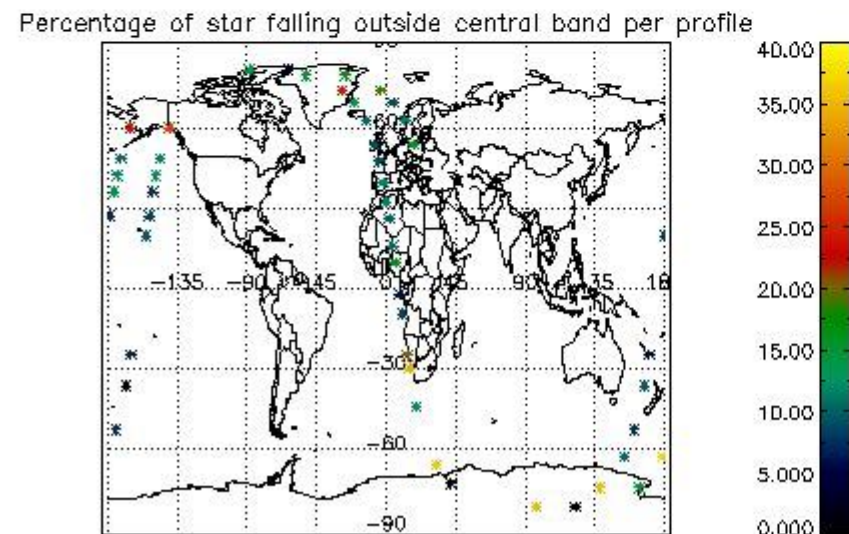
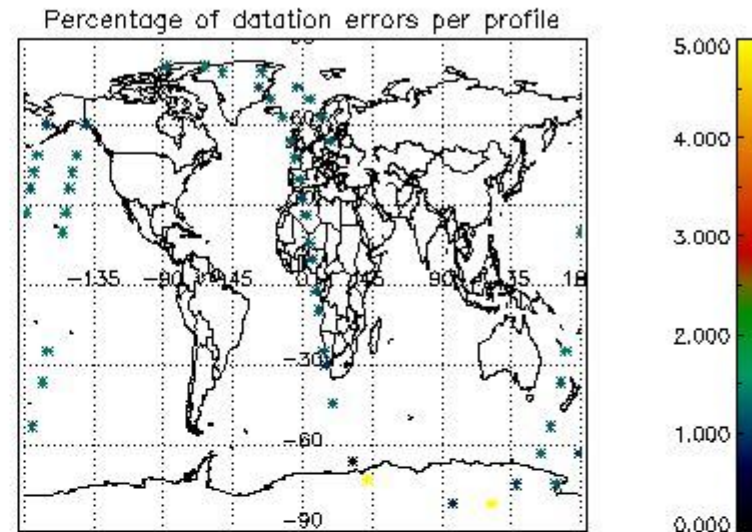
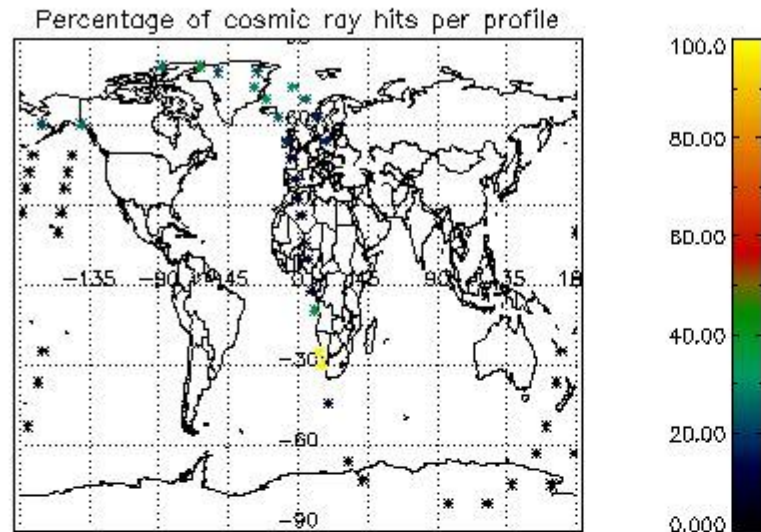
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



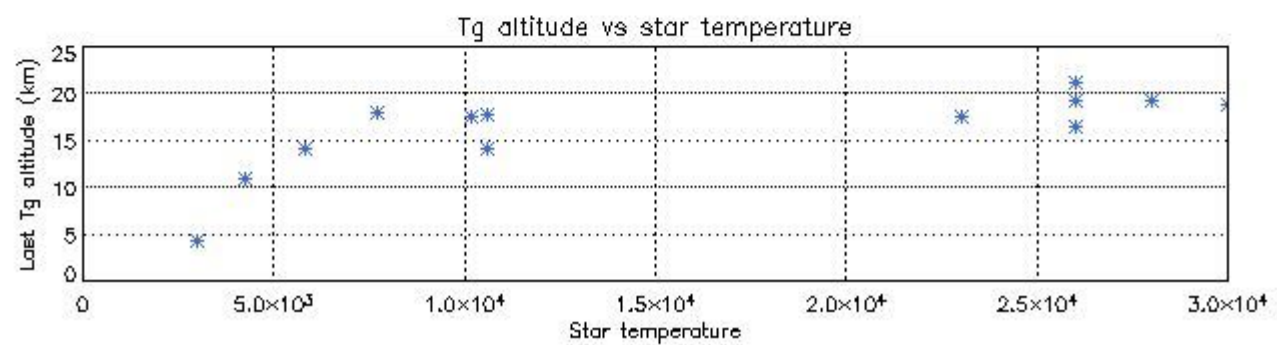
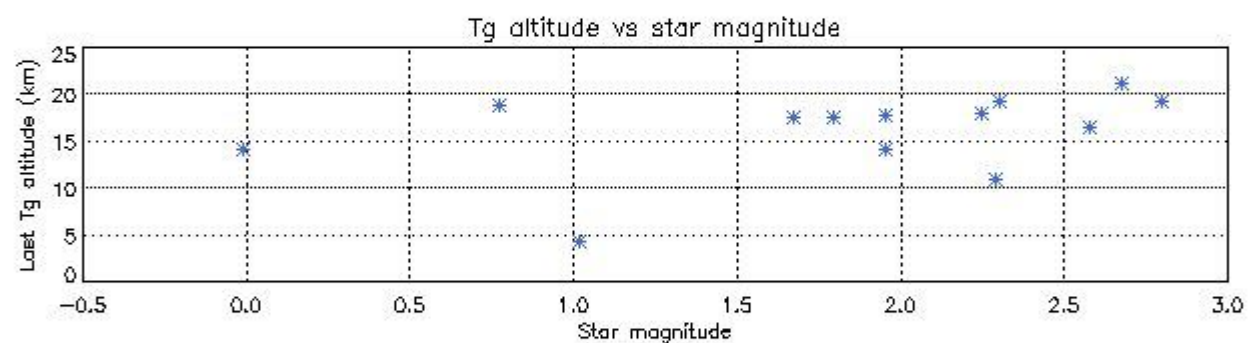
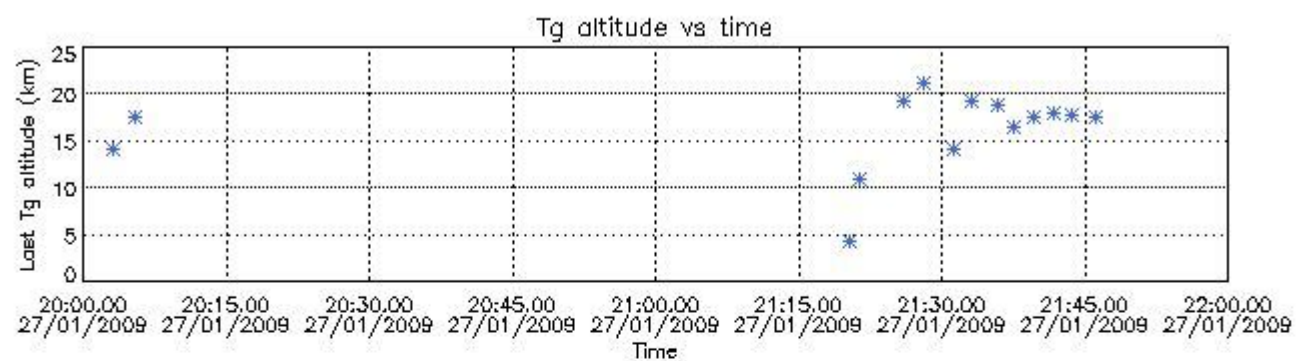
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.216	16.010	NaN
St. deviation:	4.2779	6.4417	NaN
Maximum:	21.130	27.682	NaN
Minimum:	4.3521	3.6219	NaN
Number of data:	14.000	22.000	NaN

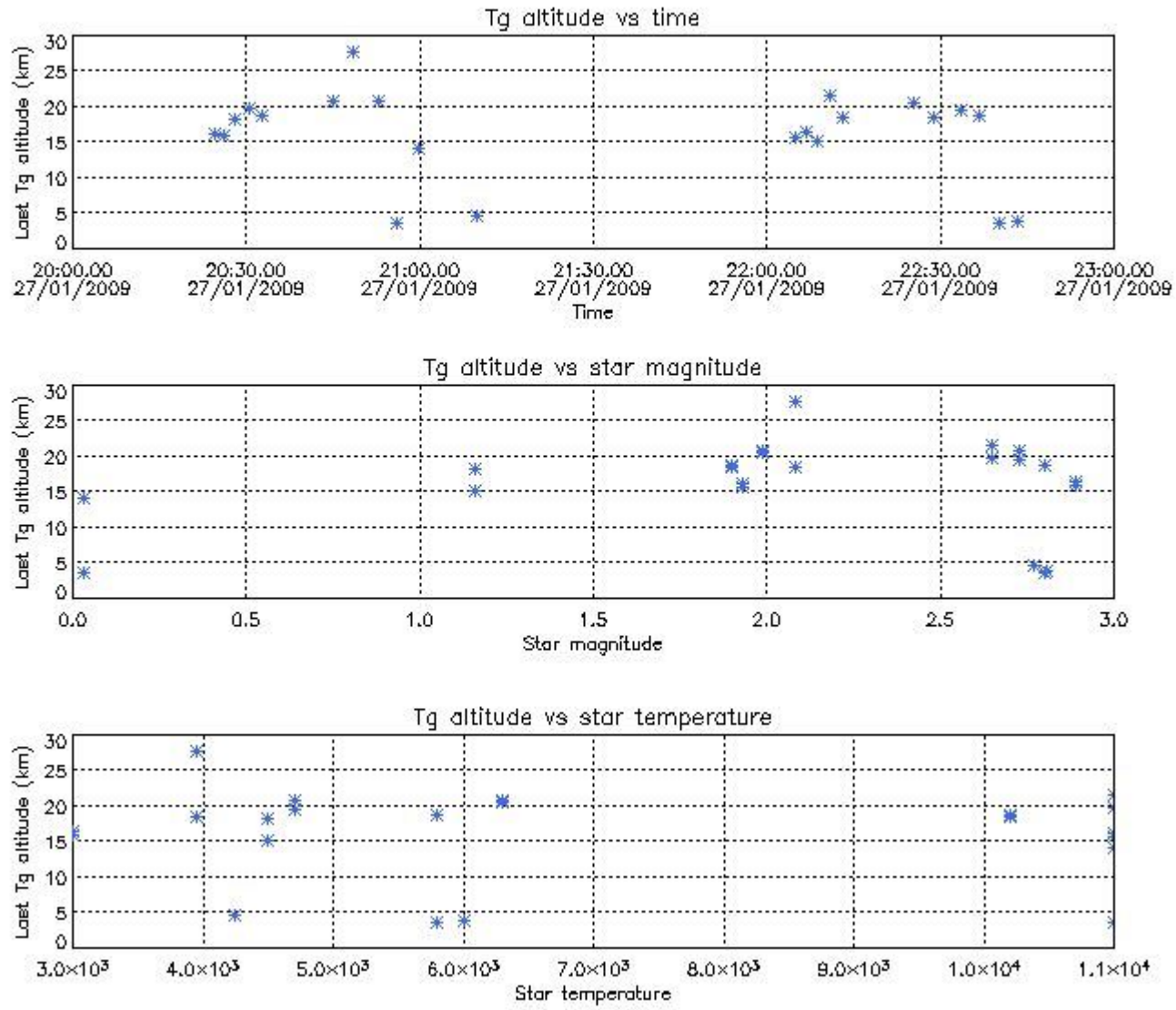
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

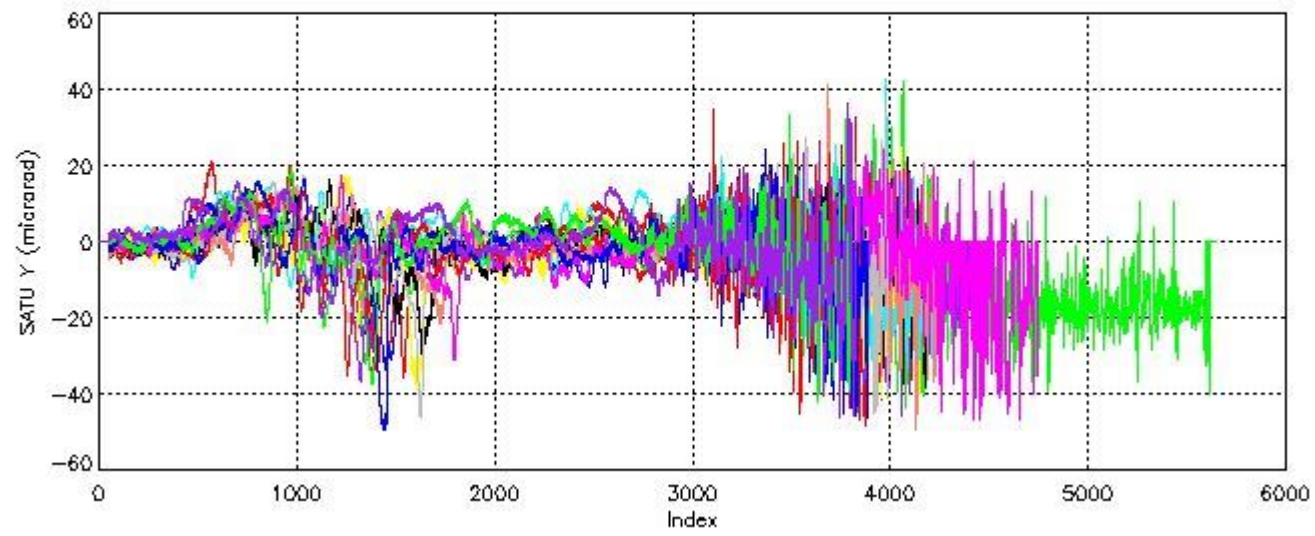
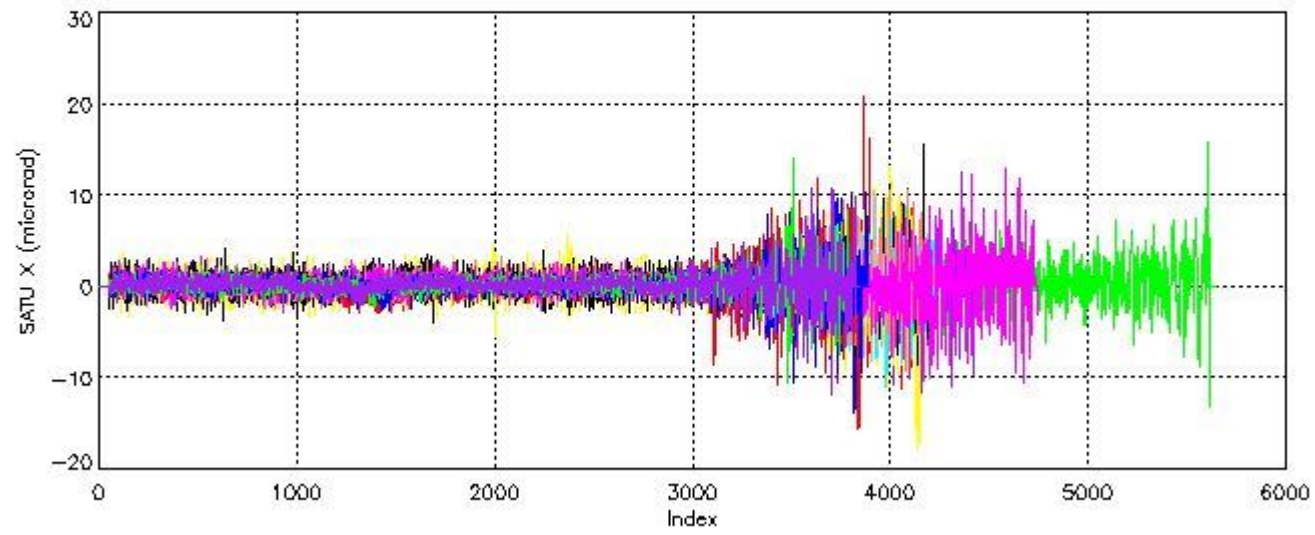


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18785	2.5020	0.10672	2.2084
St. deviation:	0.58739	4.7781	0.62389	5.7212
Maximum:	4.1000	20.900	4.3000	27.800
Minimum:	-3.7000	-20.900	-4.7000	-27.800

Number of data:	12800.	12800.	18700.	18700.
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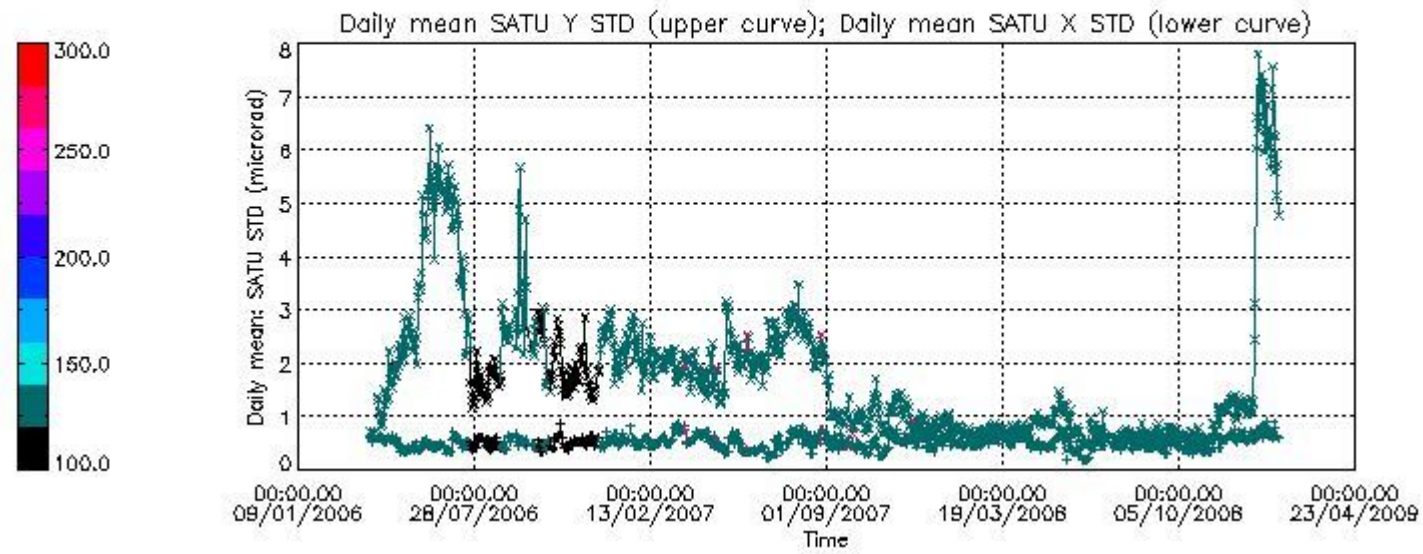
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

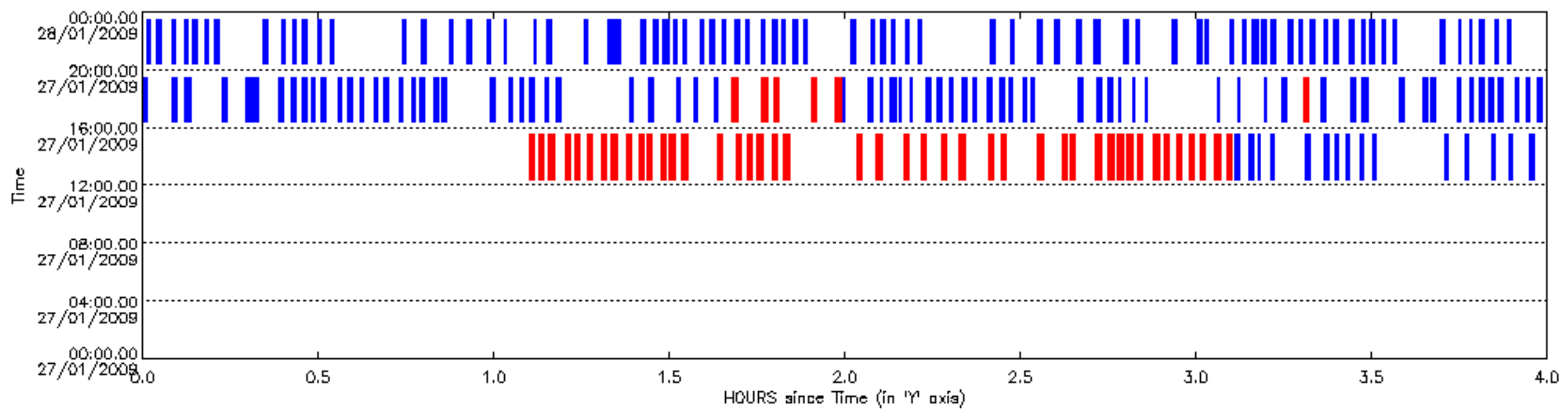
Lower curve: STD of SATU X axis

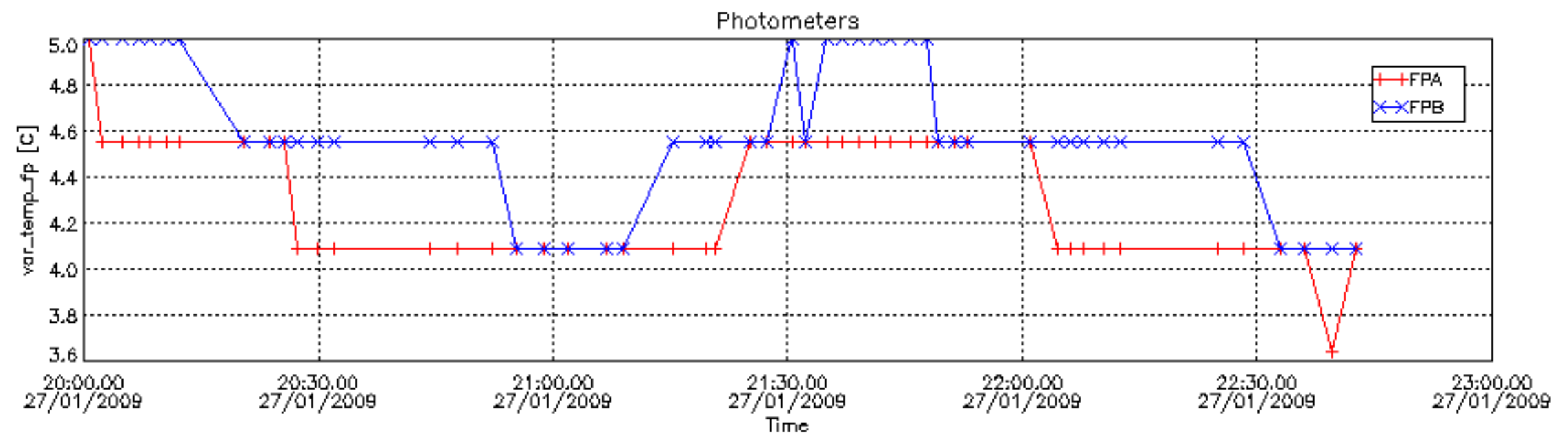
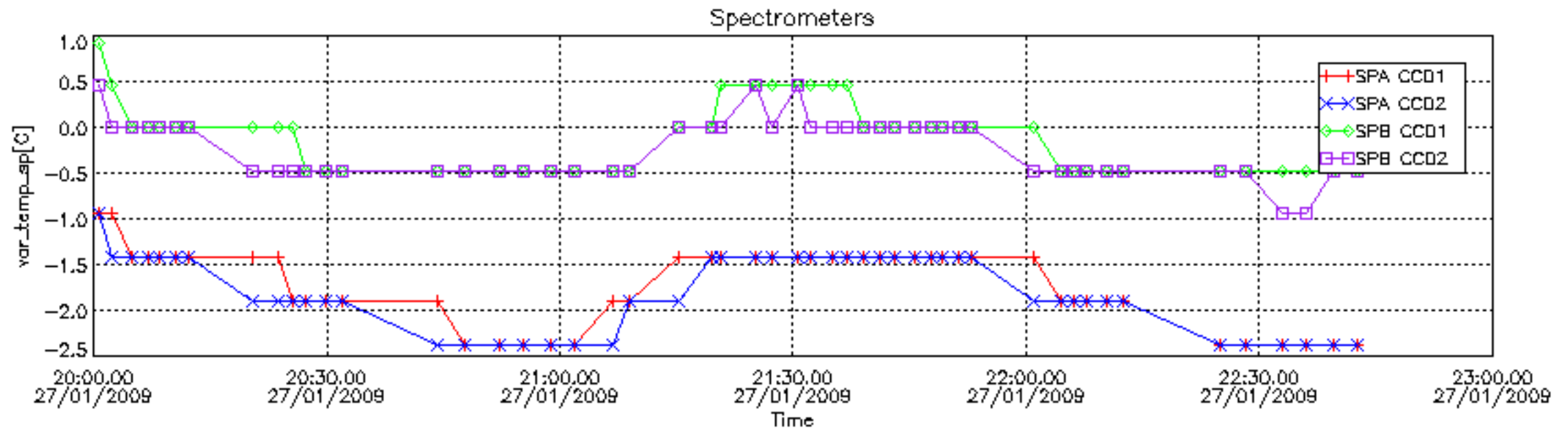


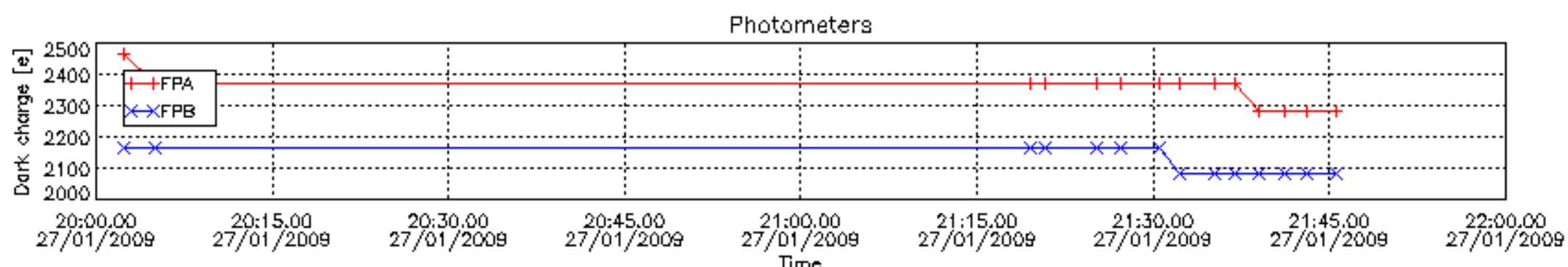
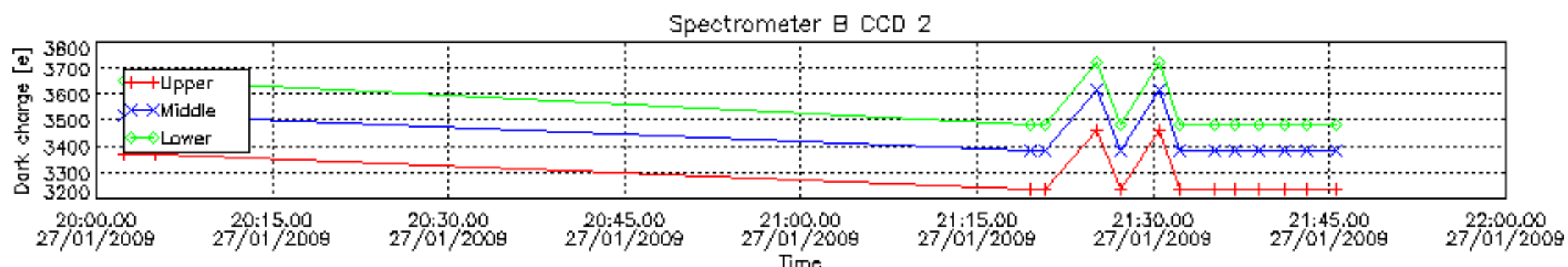
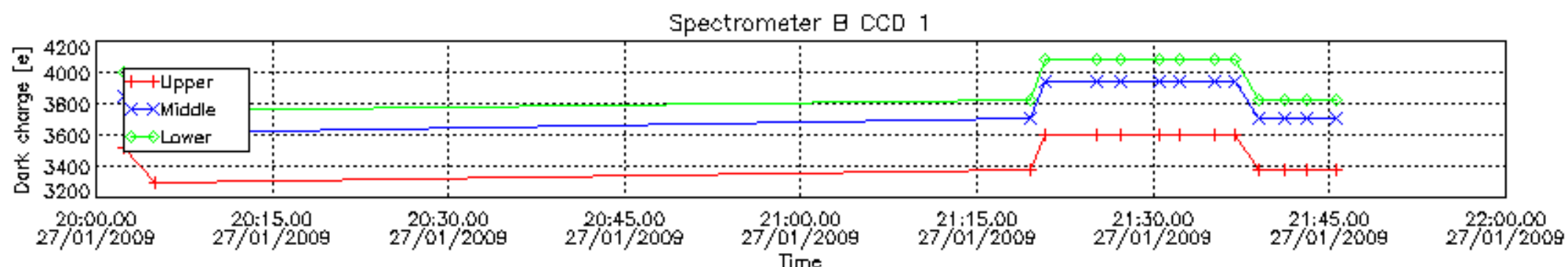
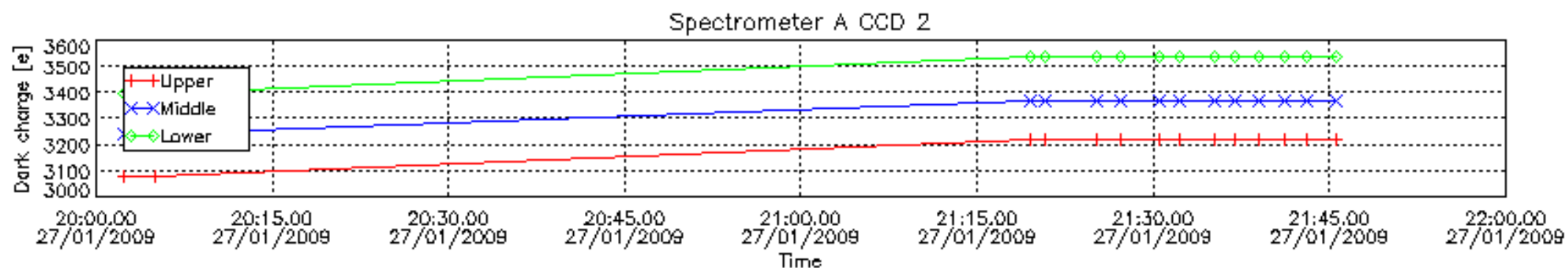
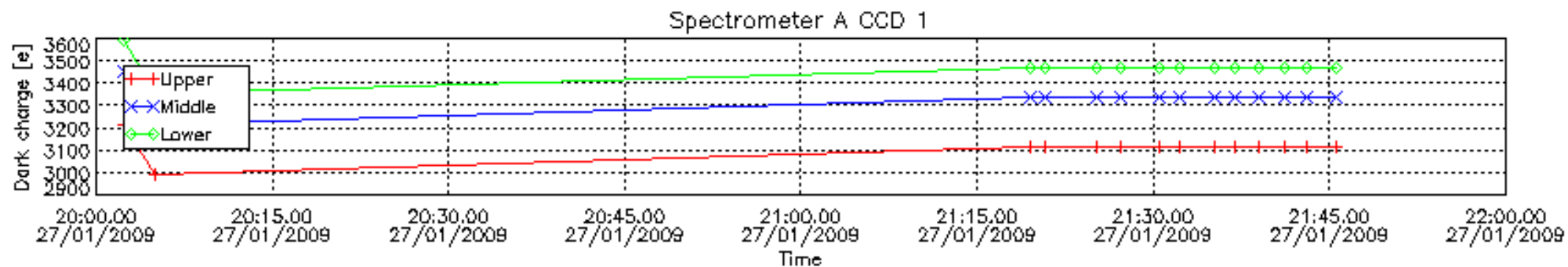
8. Auxiliary Data Files used for the production reported in section 2.4

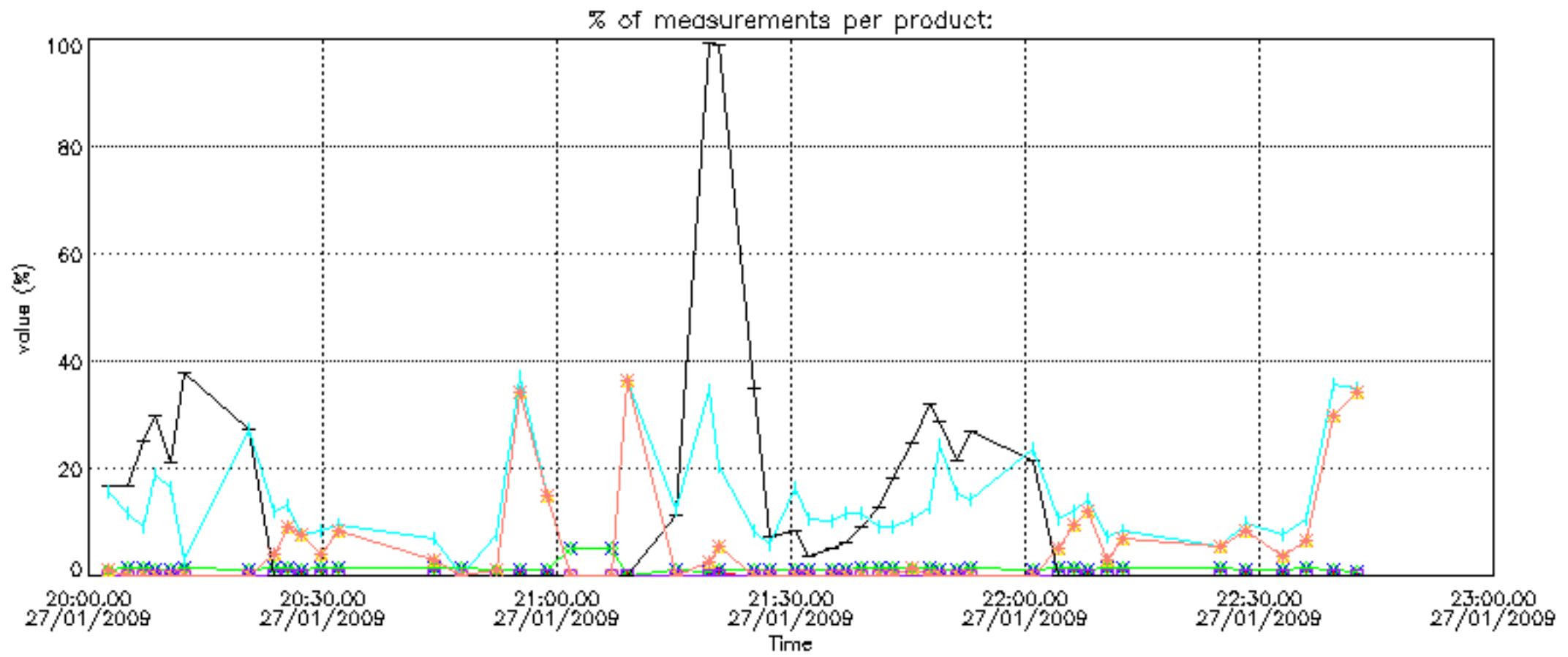
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JAN-2009 20:00:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	27-JAN-2009 20:00:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JAN-2009 20:00:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JAN-2009 20:00:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JAN-2009 20:00:37
ECMWF_FILE	AUX_ECF_AXNECM20090127_062111_20090127_150000_20090128_030000	1	27-JAN-2009 20:00:37
ECMWF_FILE	AUX_ECF_AXNECM20090127_064110_20090127_210000_20090128_090000	22	27-JAN-2009 21:15:21
OPTIONAL_ECMWF_FILE	MISSING	1	27-JAN-2009 20:00:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090127_195711_000041442076_00014_36140_7246.N1	1	27-JAN-2009 20:00:37

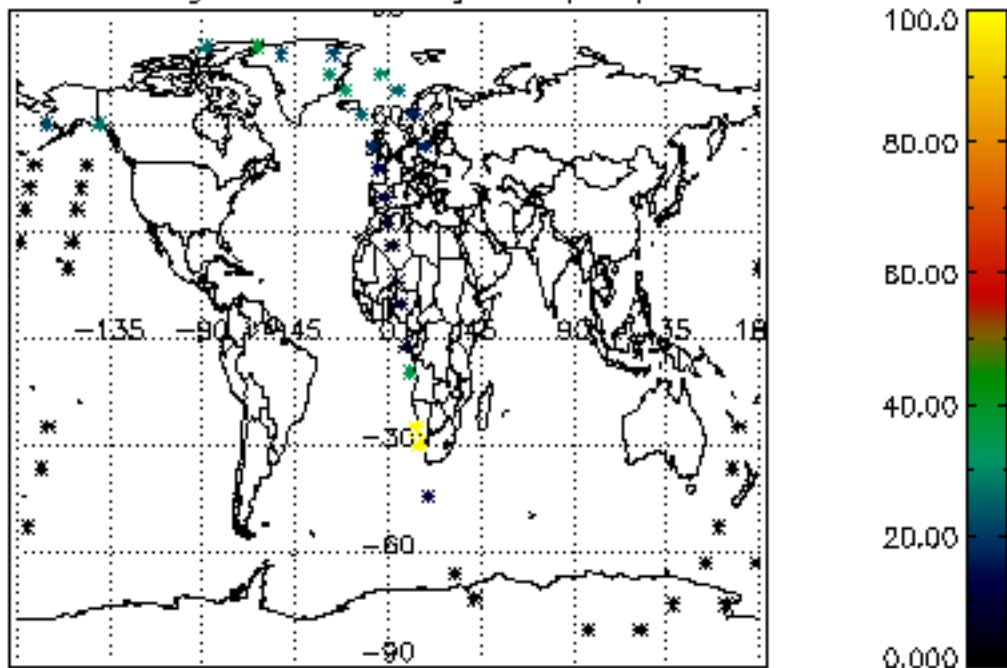




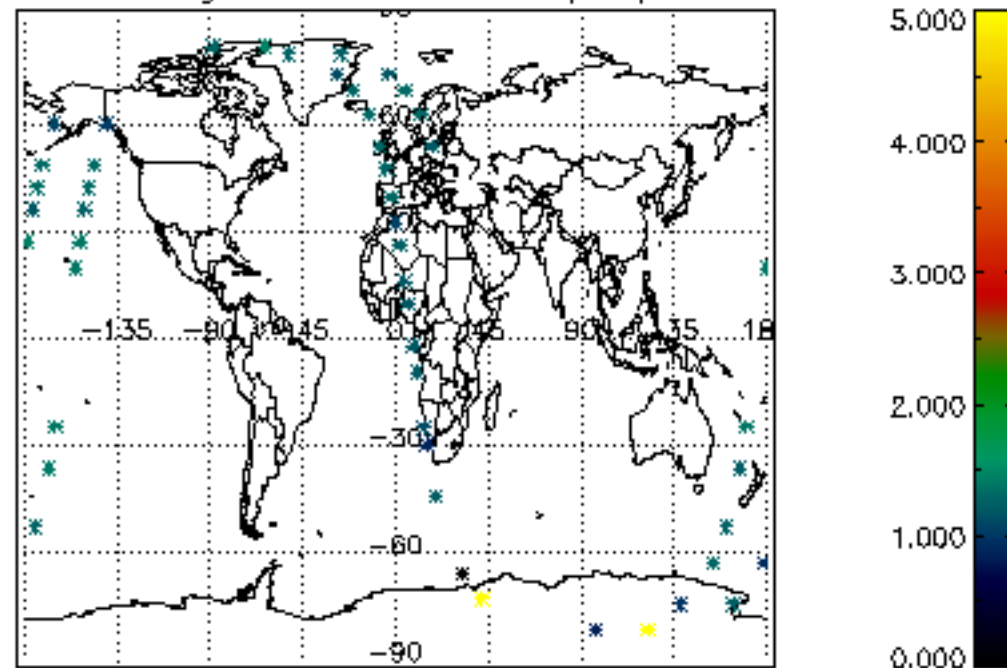




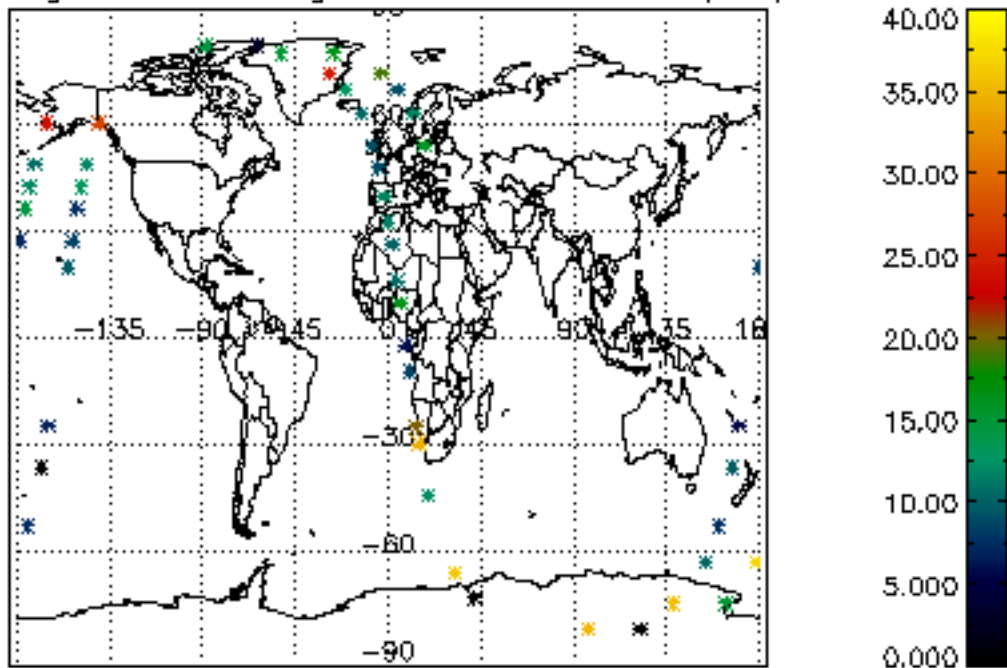
Percentage of cosmic ray hits per profile



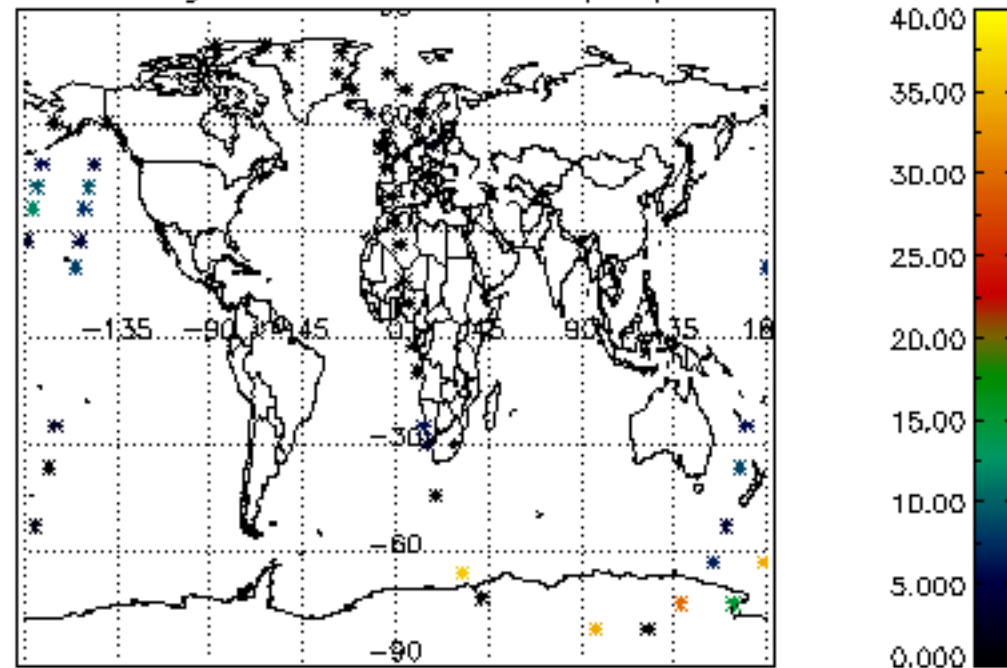
Percentage of datation errors per profile



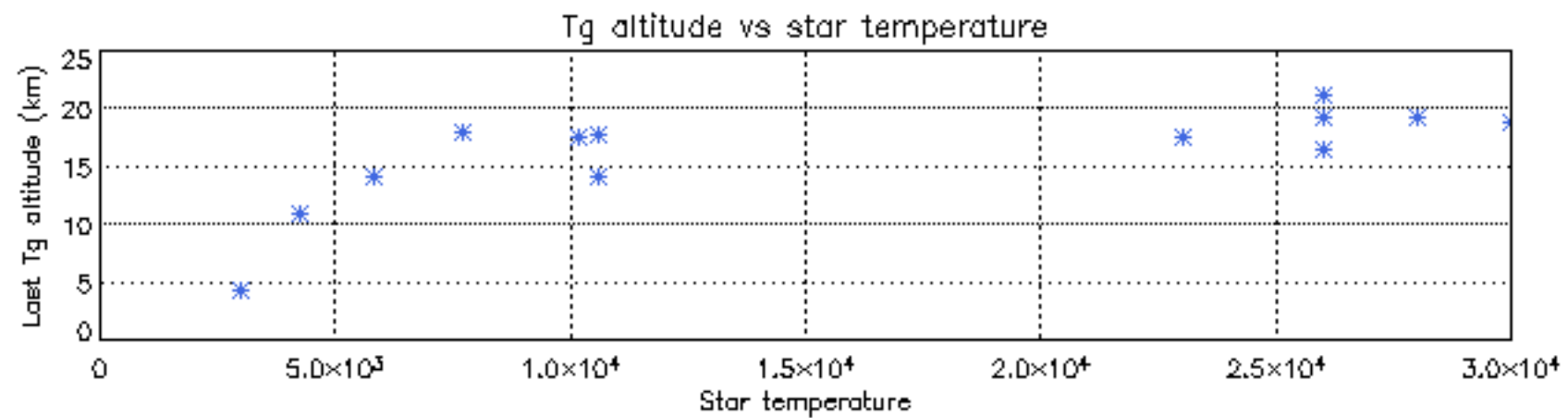
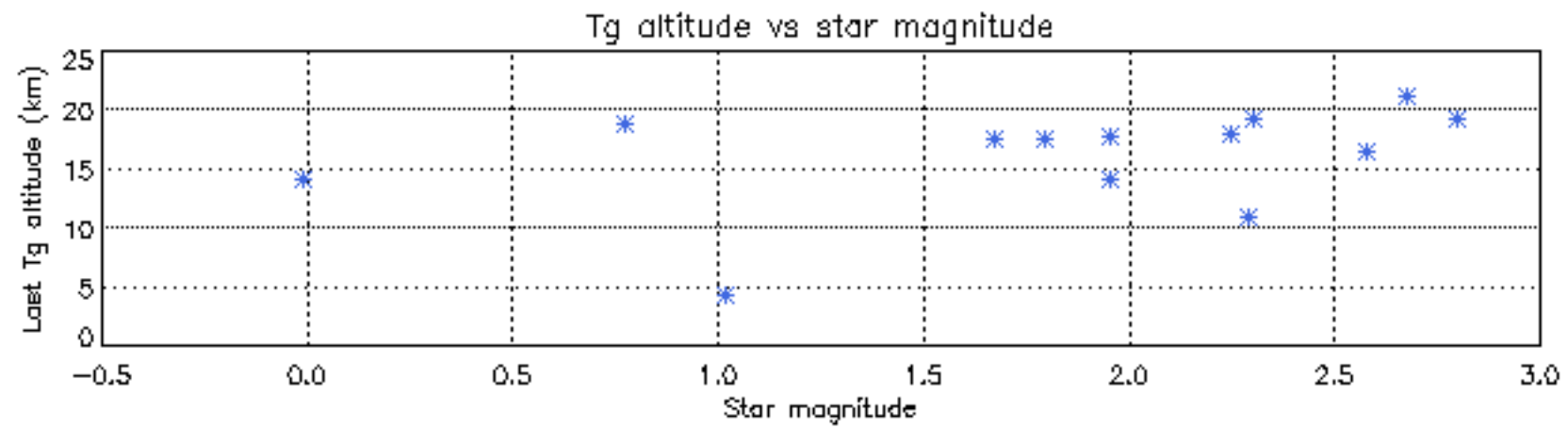
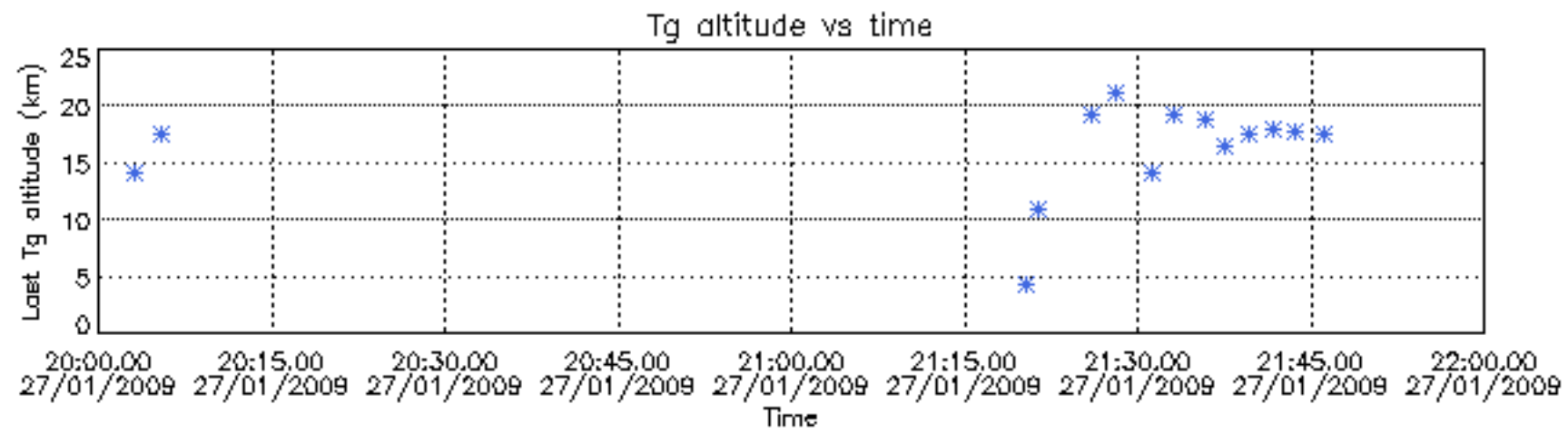
Percentage of star falling outside central band per profile



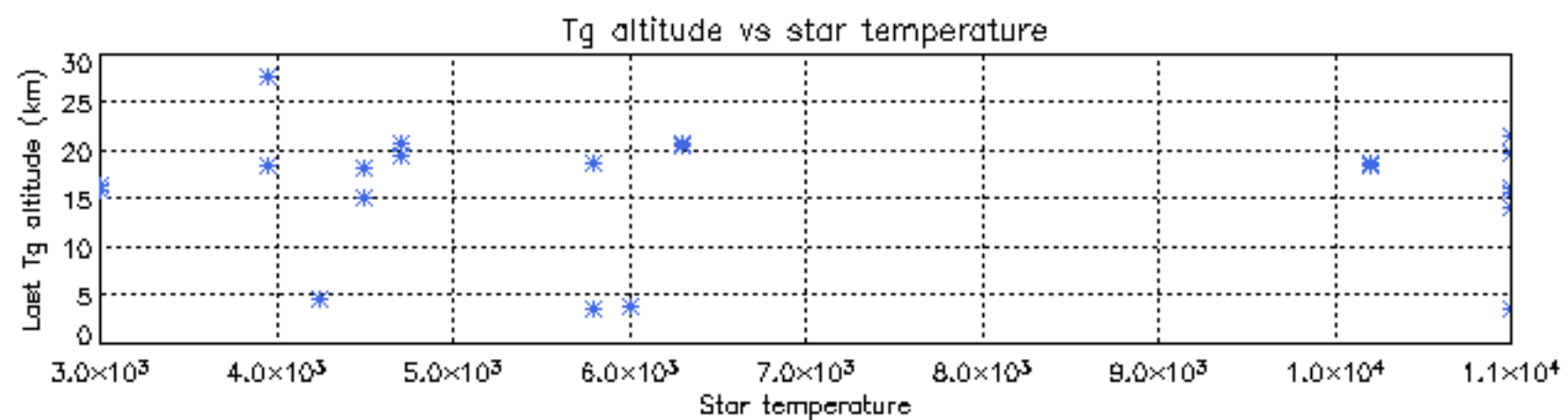
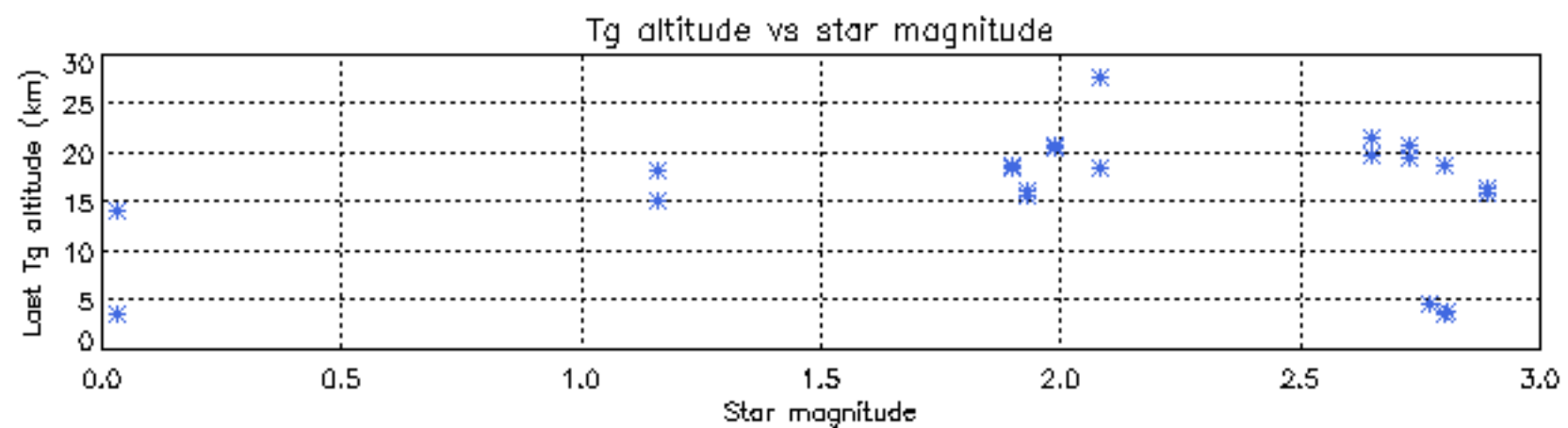
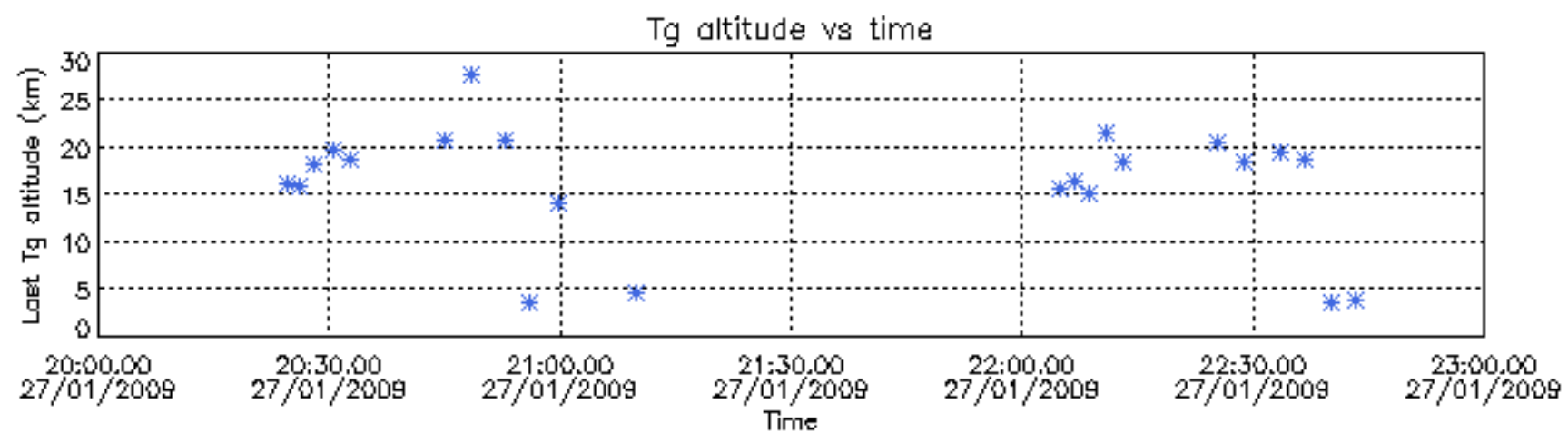
Percentage of saturation errors per profile

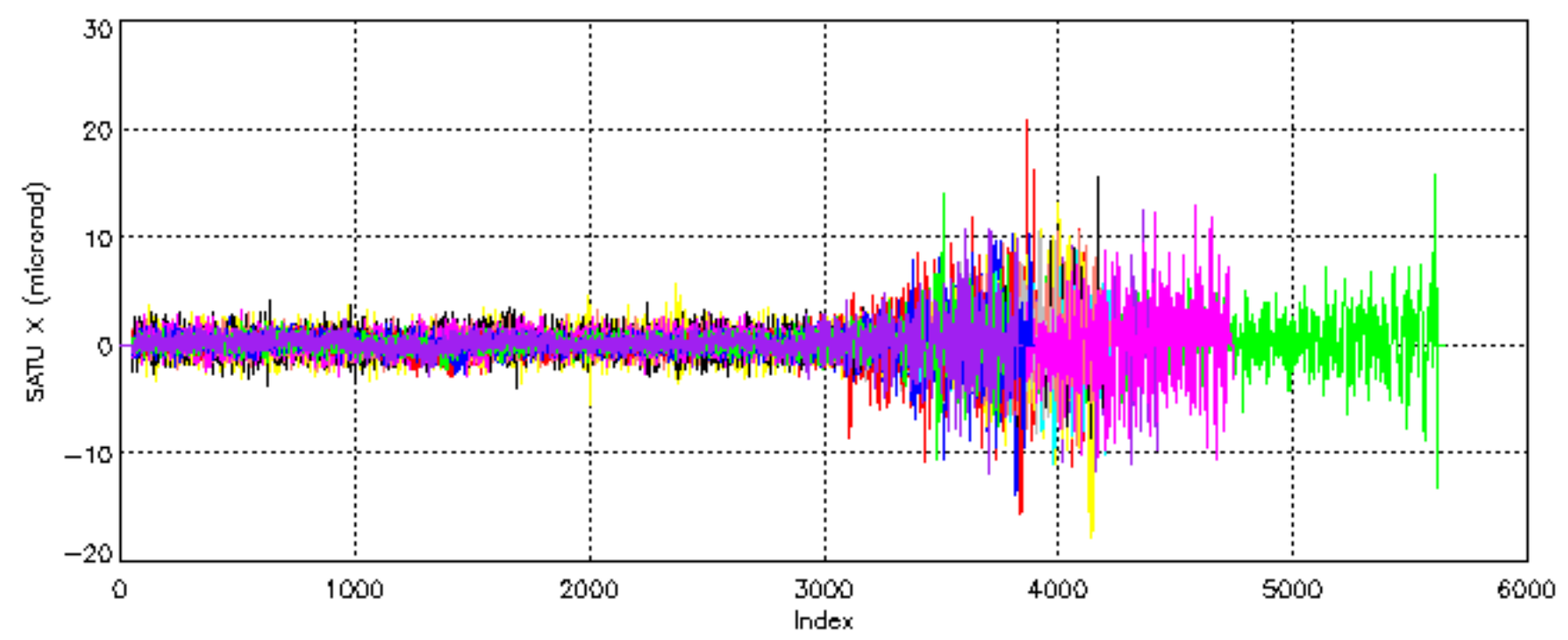


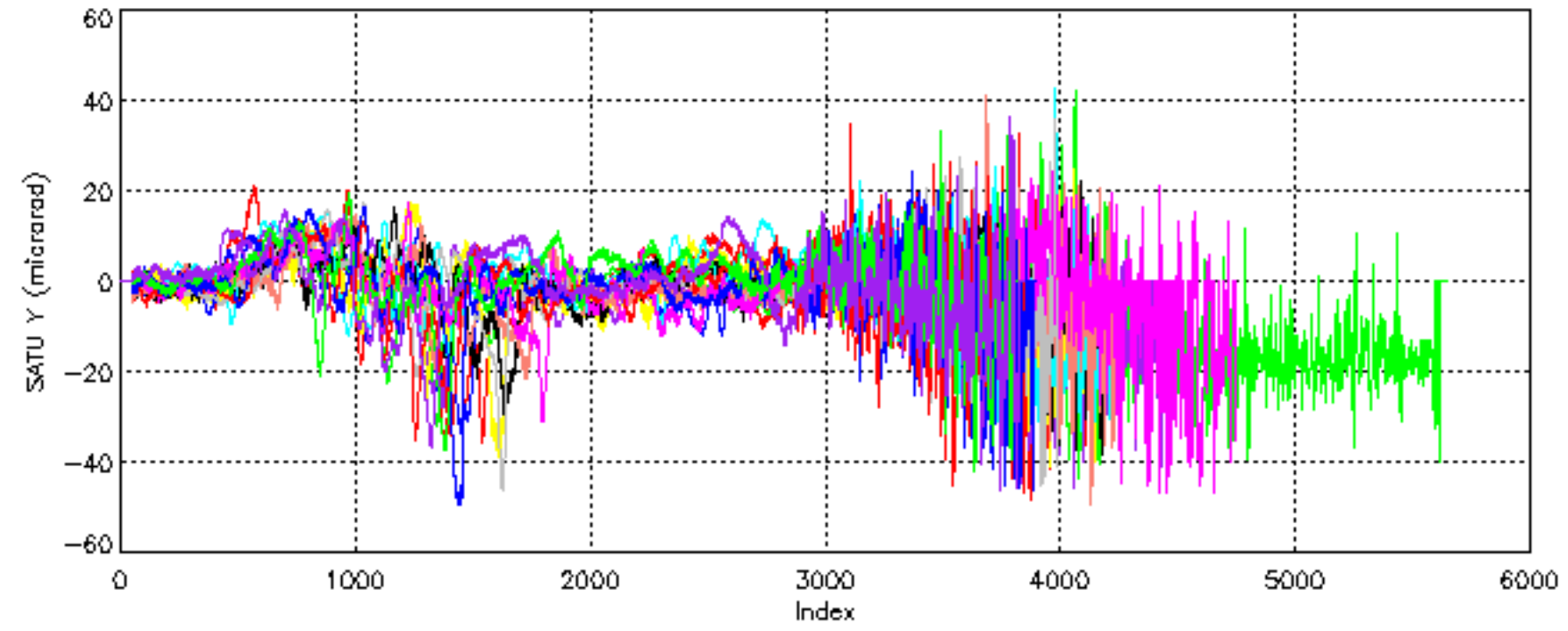
Tangent altitude at which the star is lost

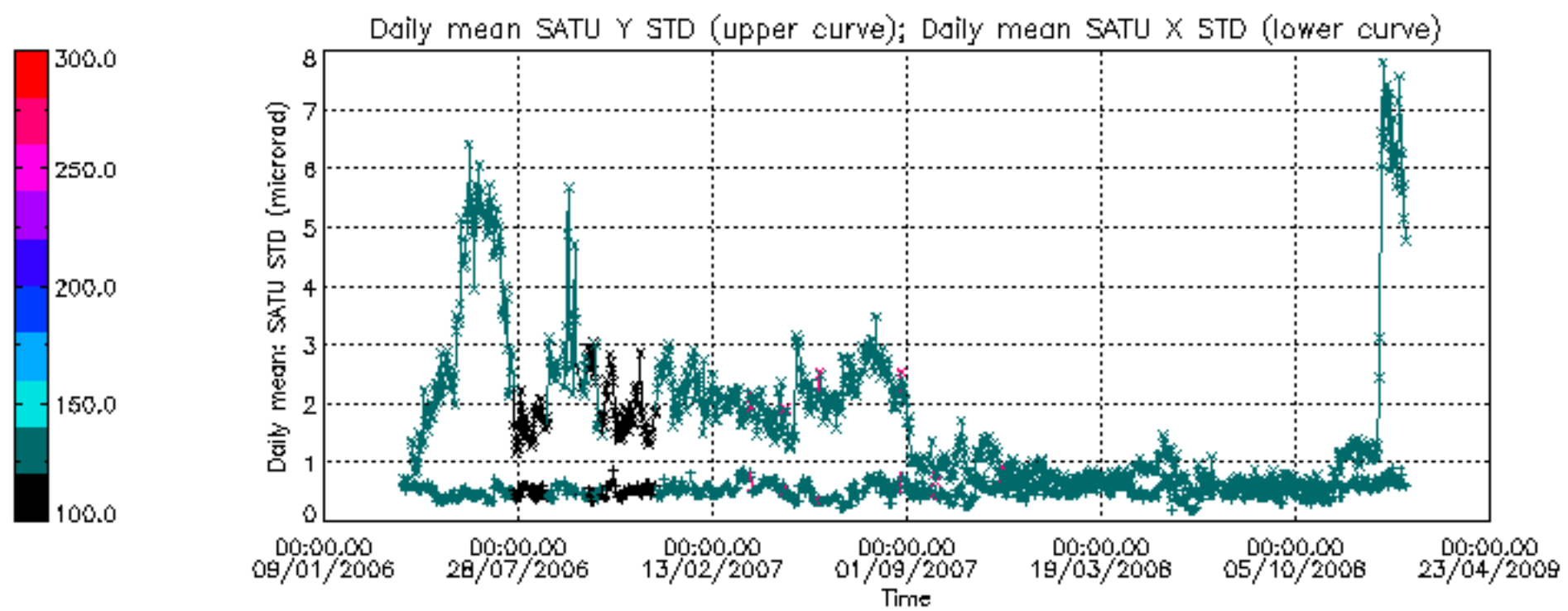


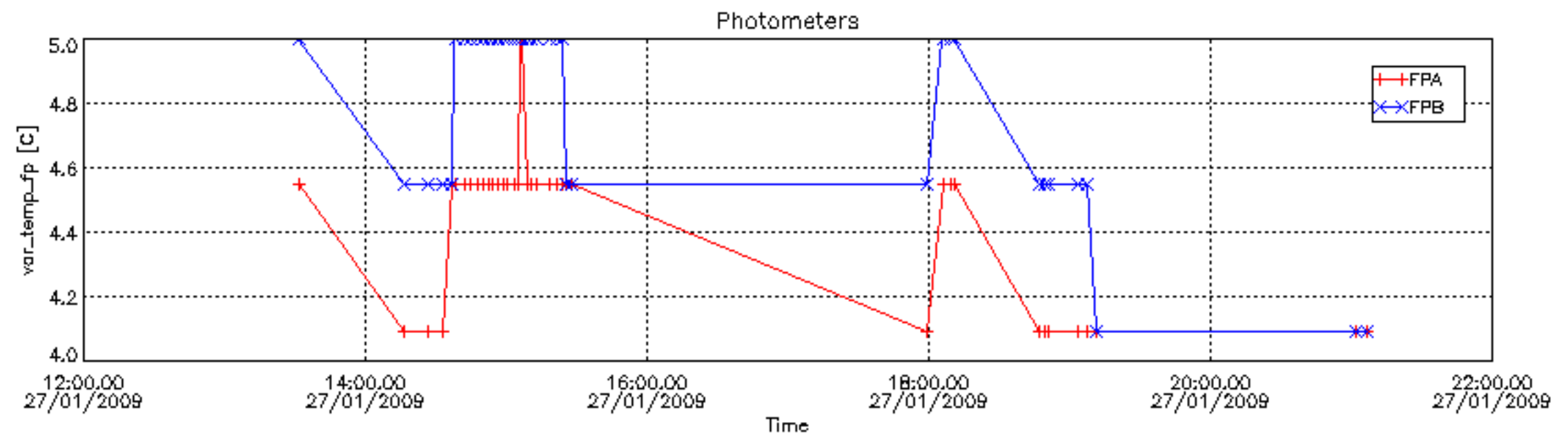
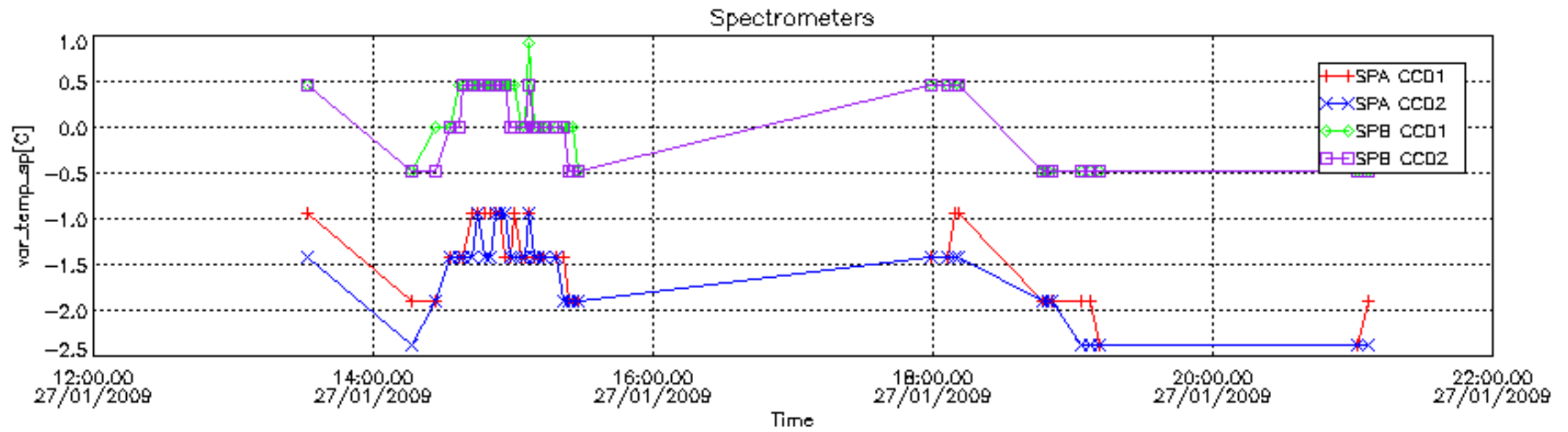
Tangent altitude at which the star is lost

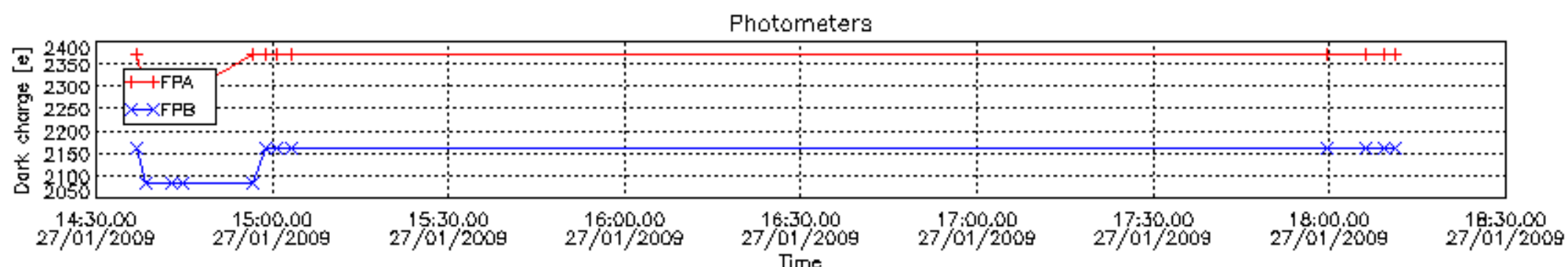
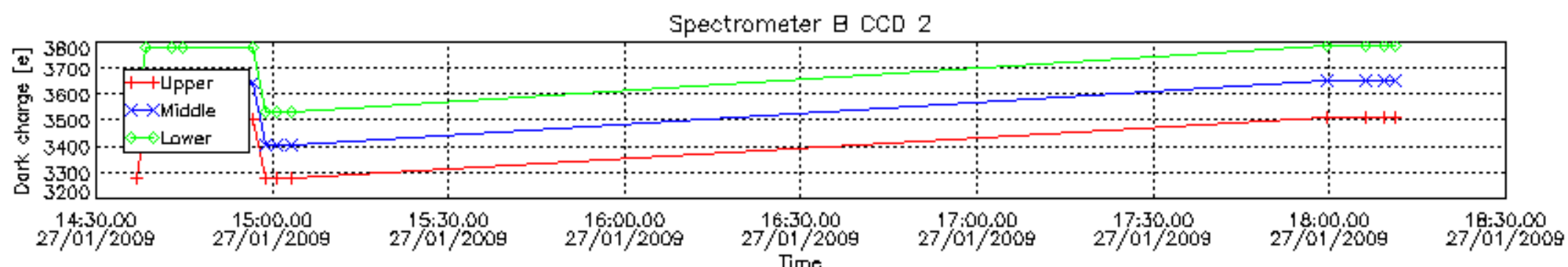
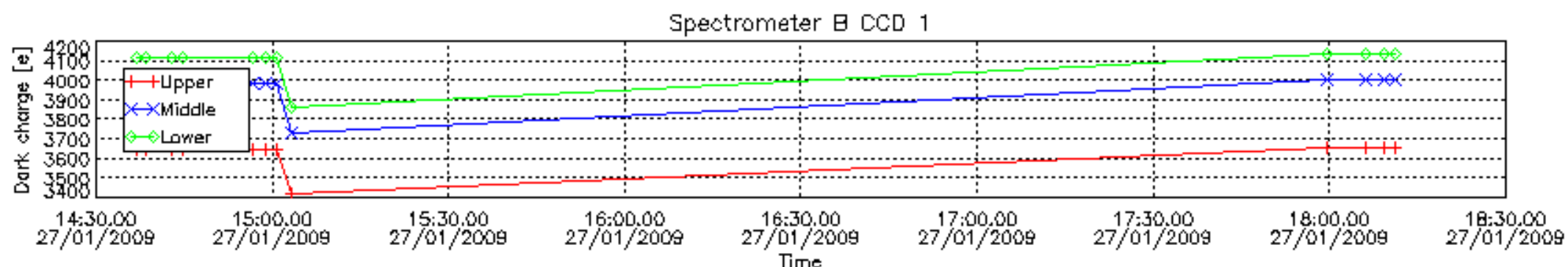
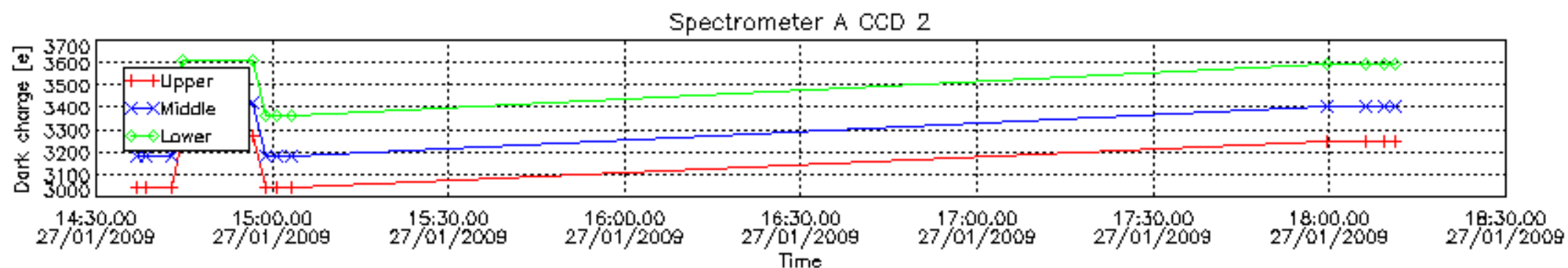
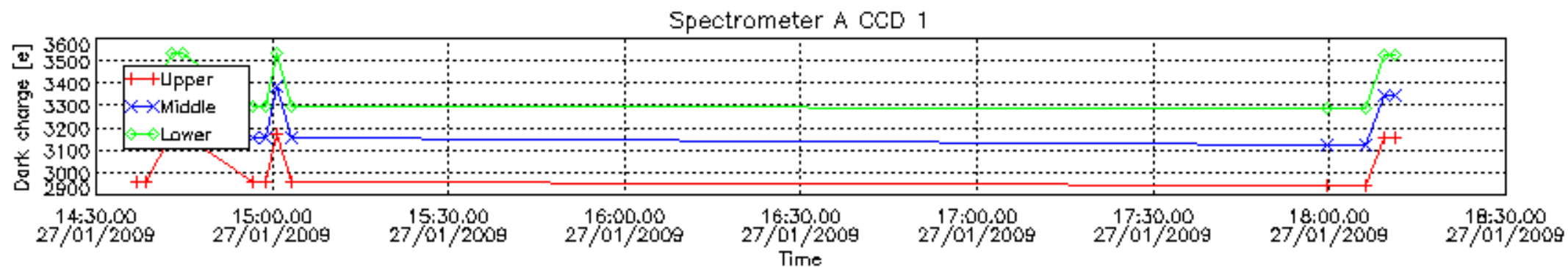


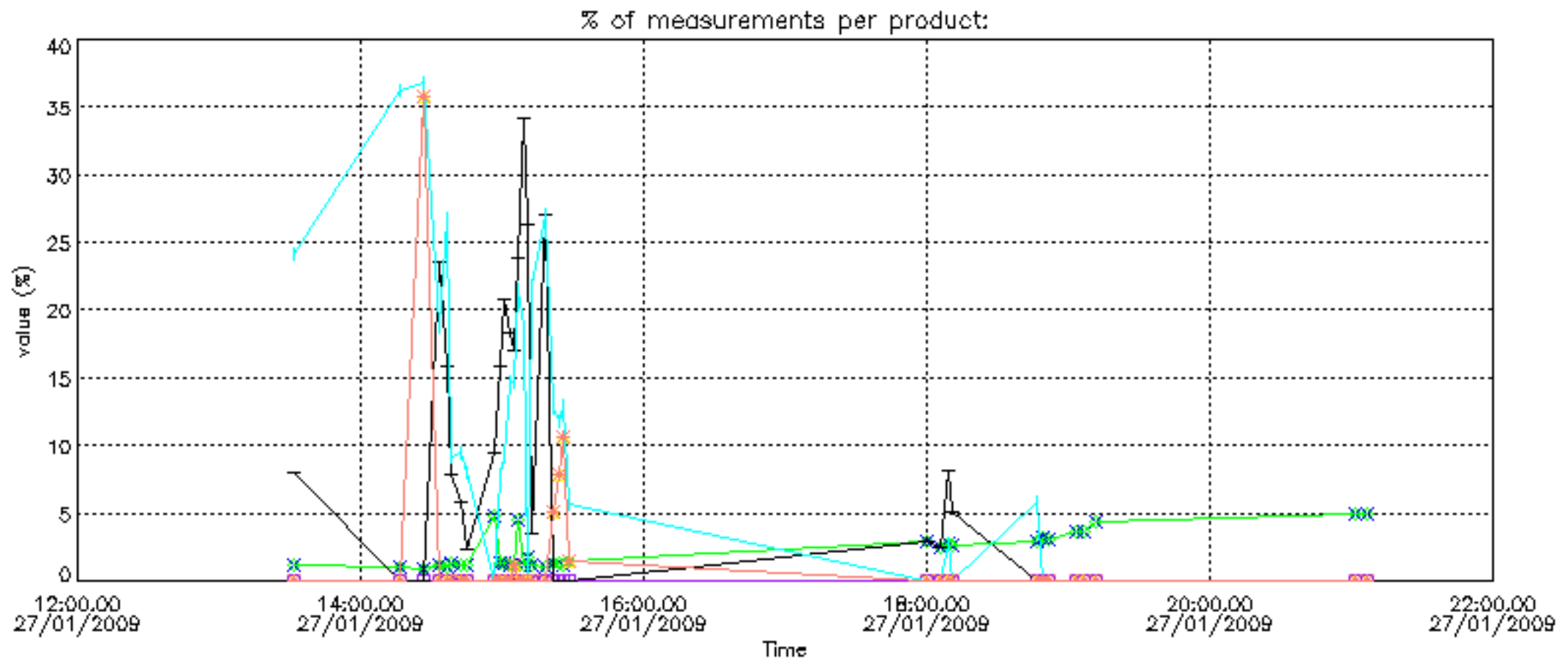




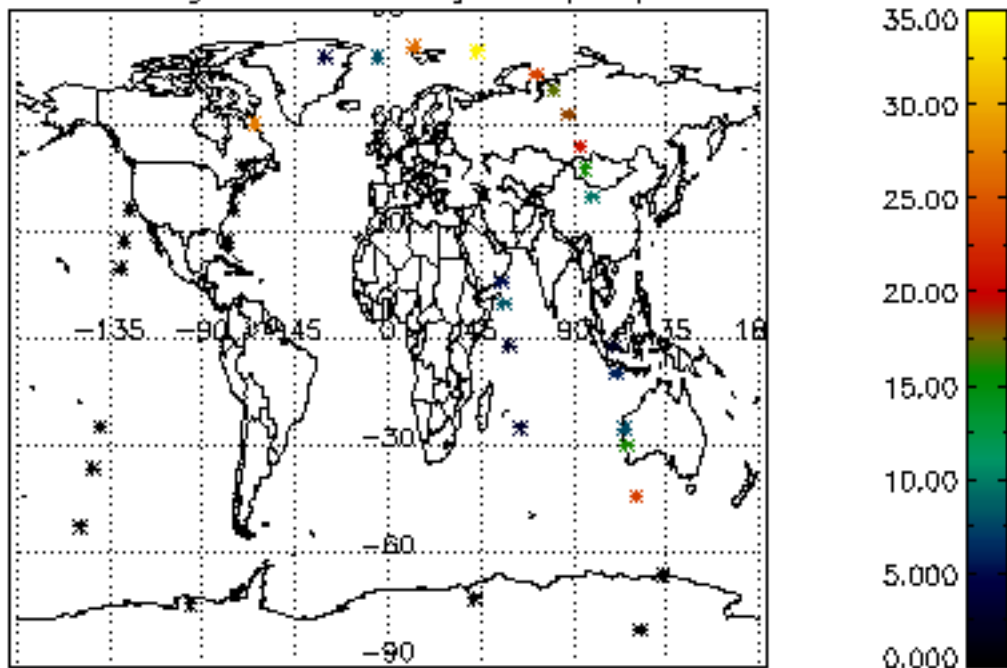




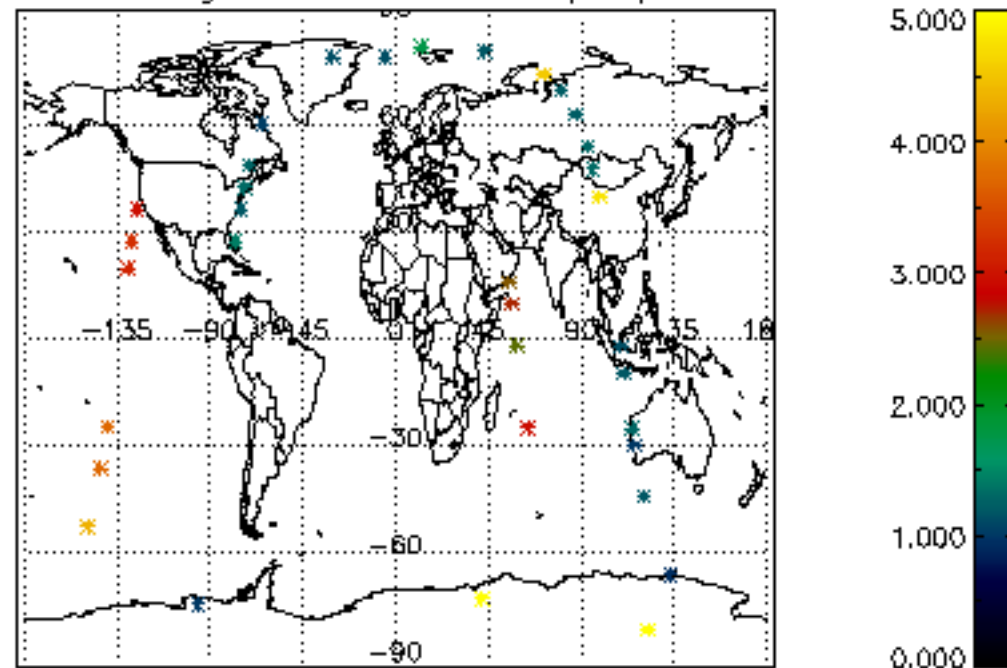




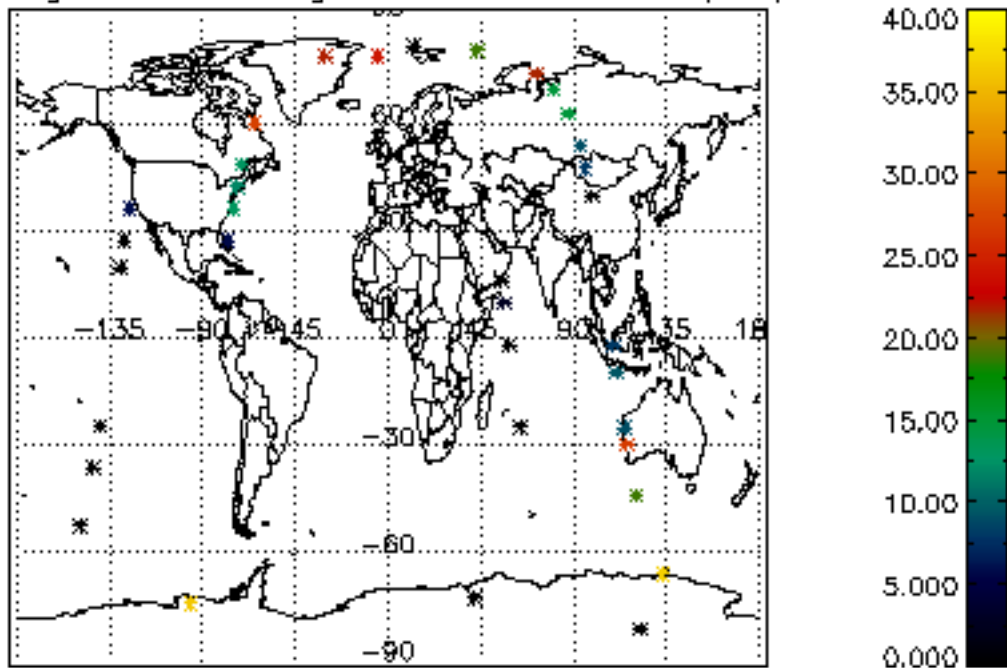
Percentage of cosmic ray hits per profile



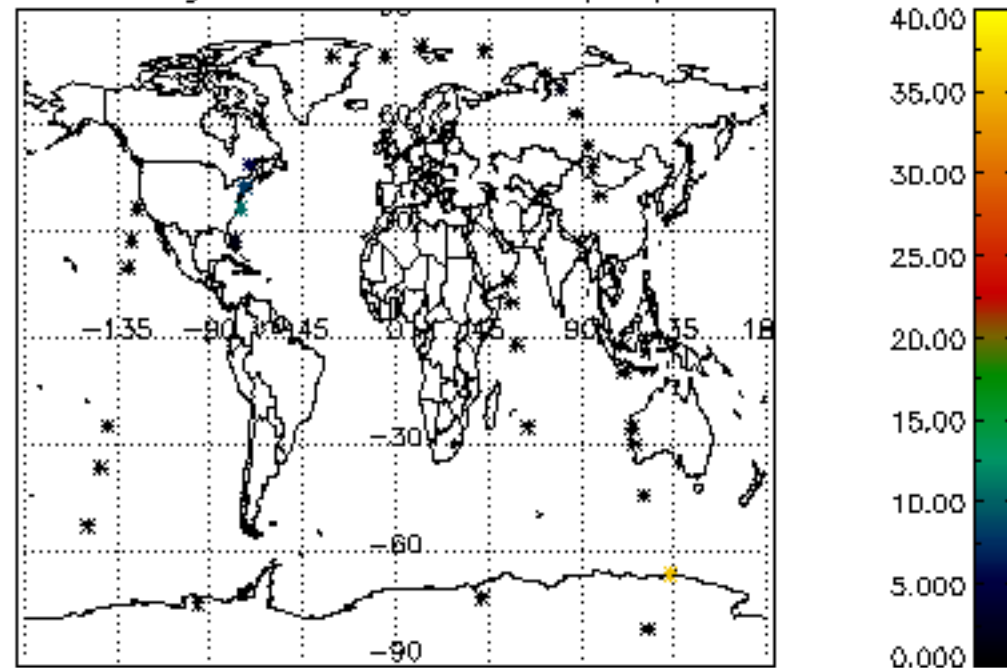
Percentage of datation errors per profile



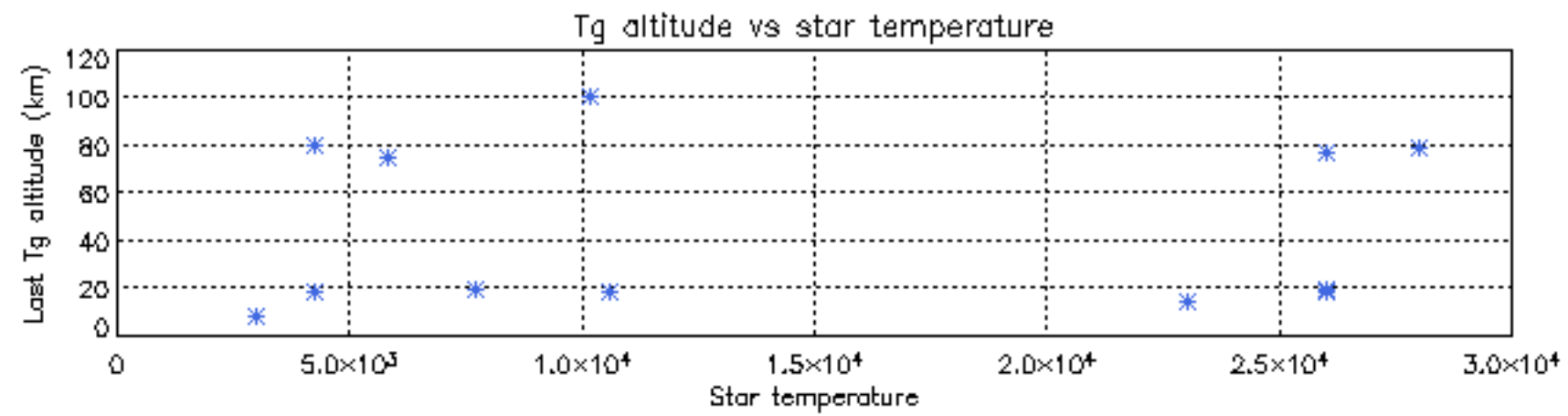
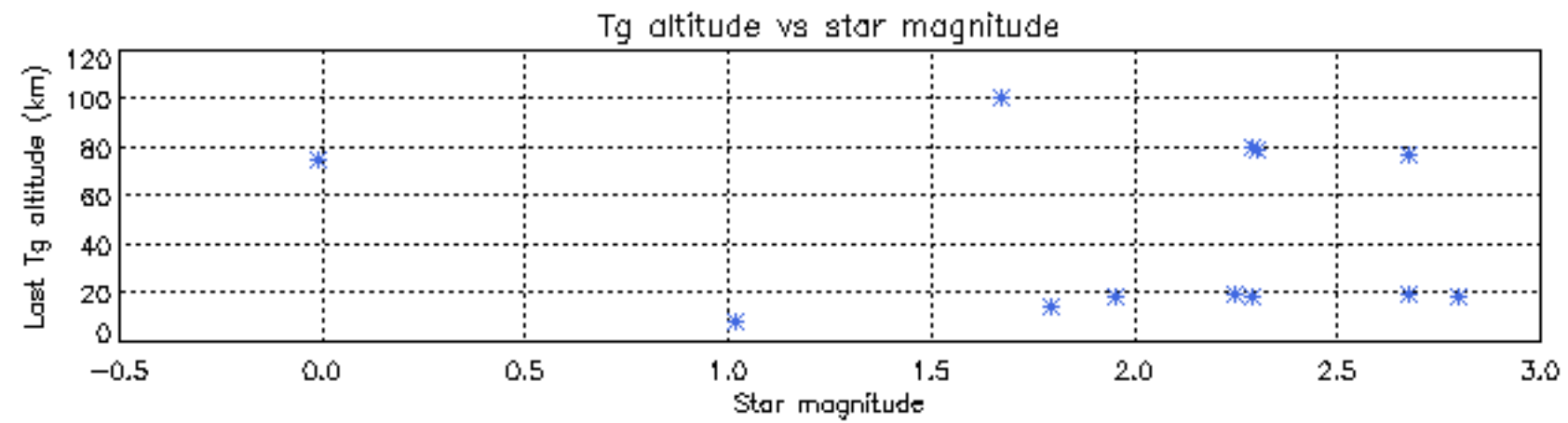
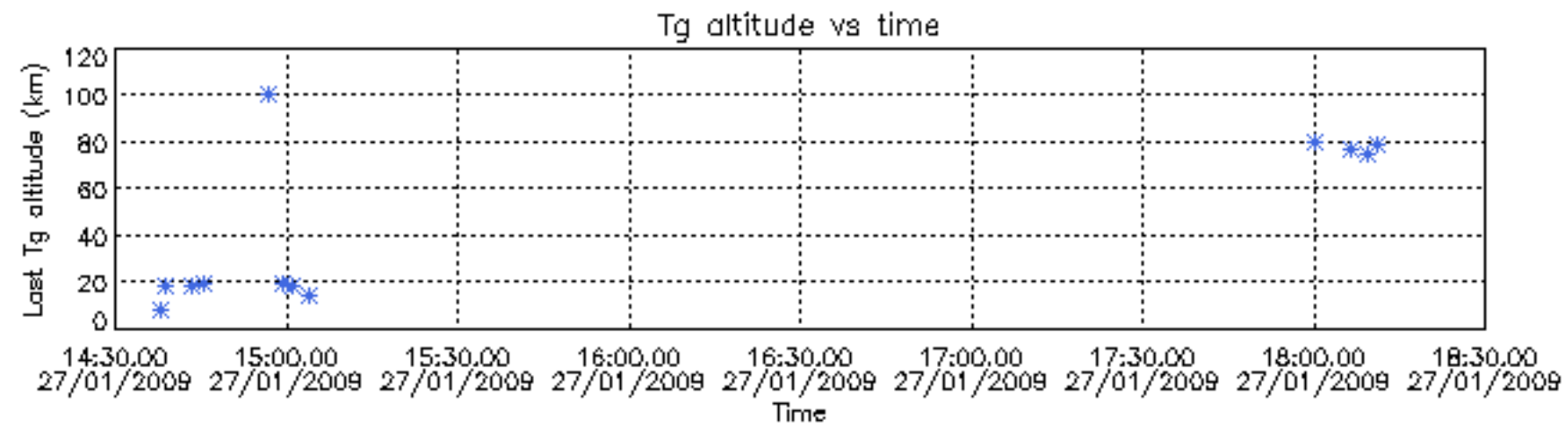
Percentage of star falling outside central band per profile



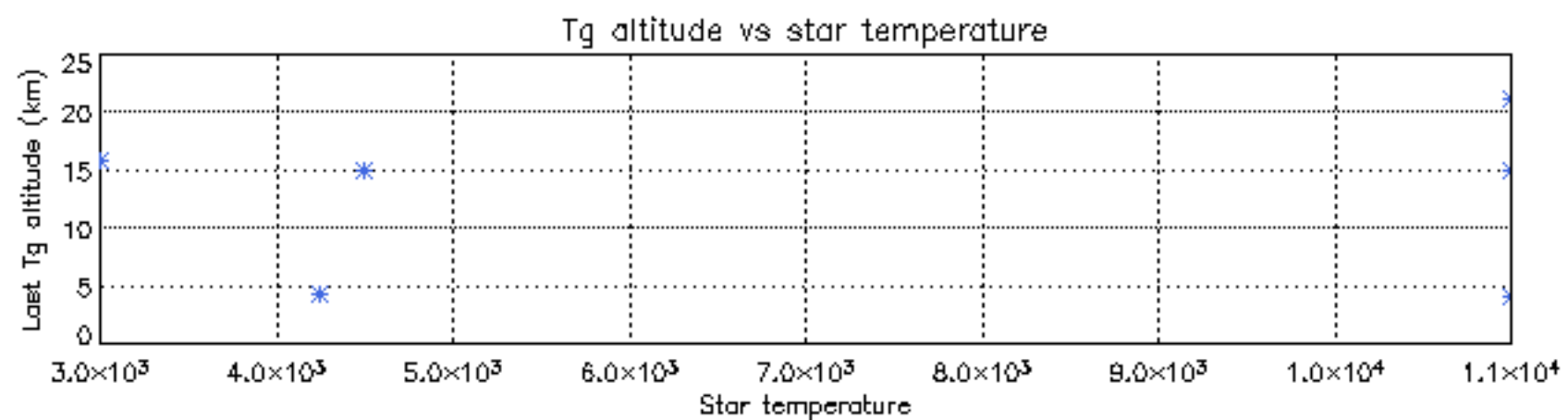
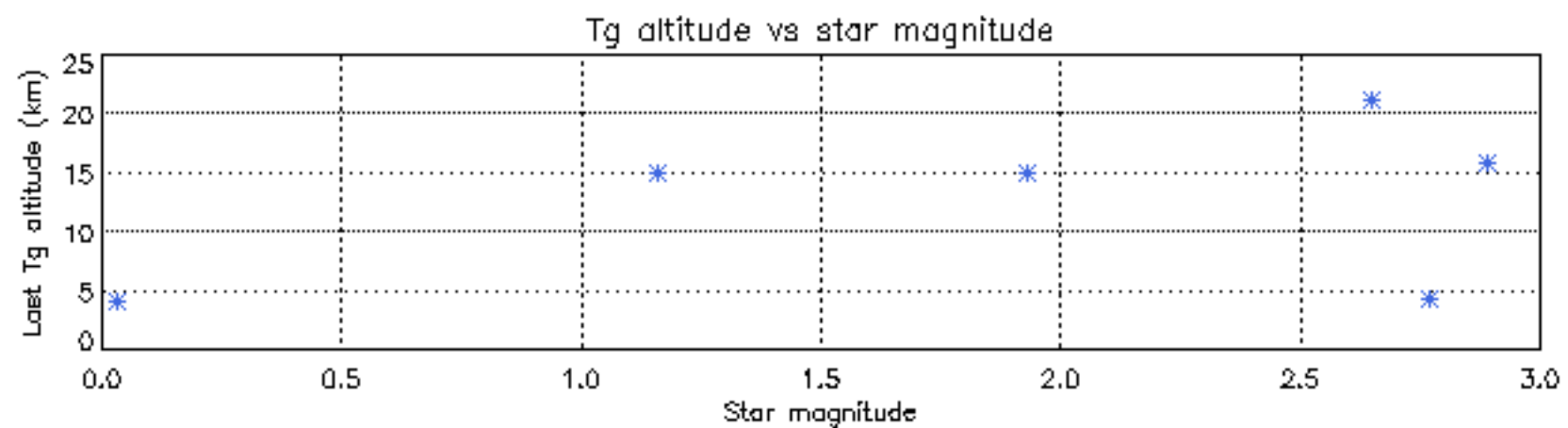
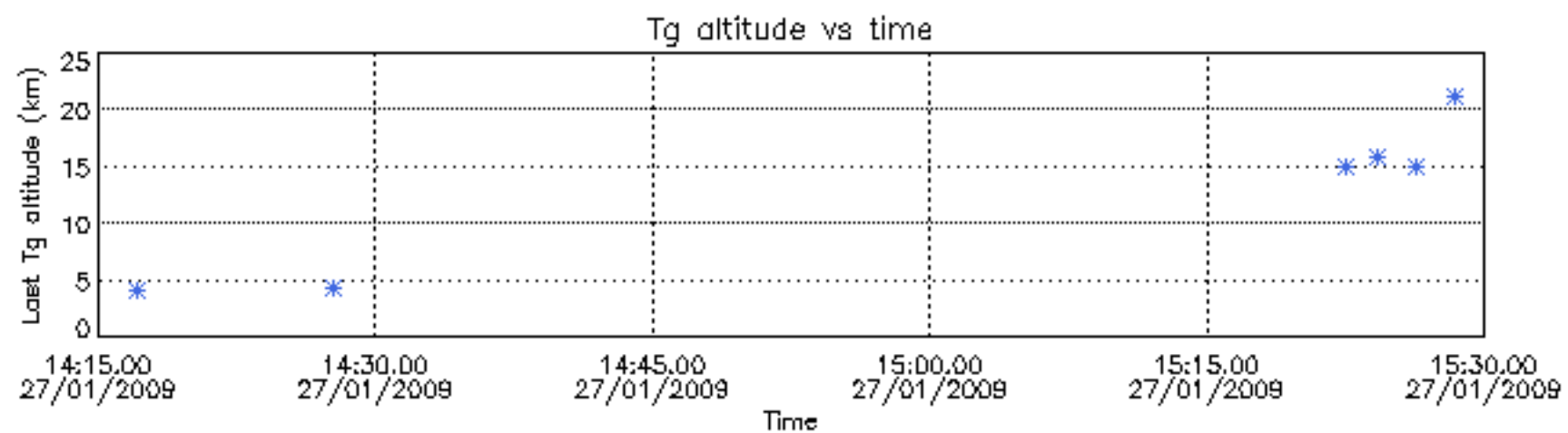
Percentage of saturation errors per profile

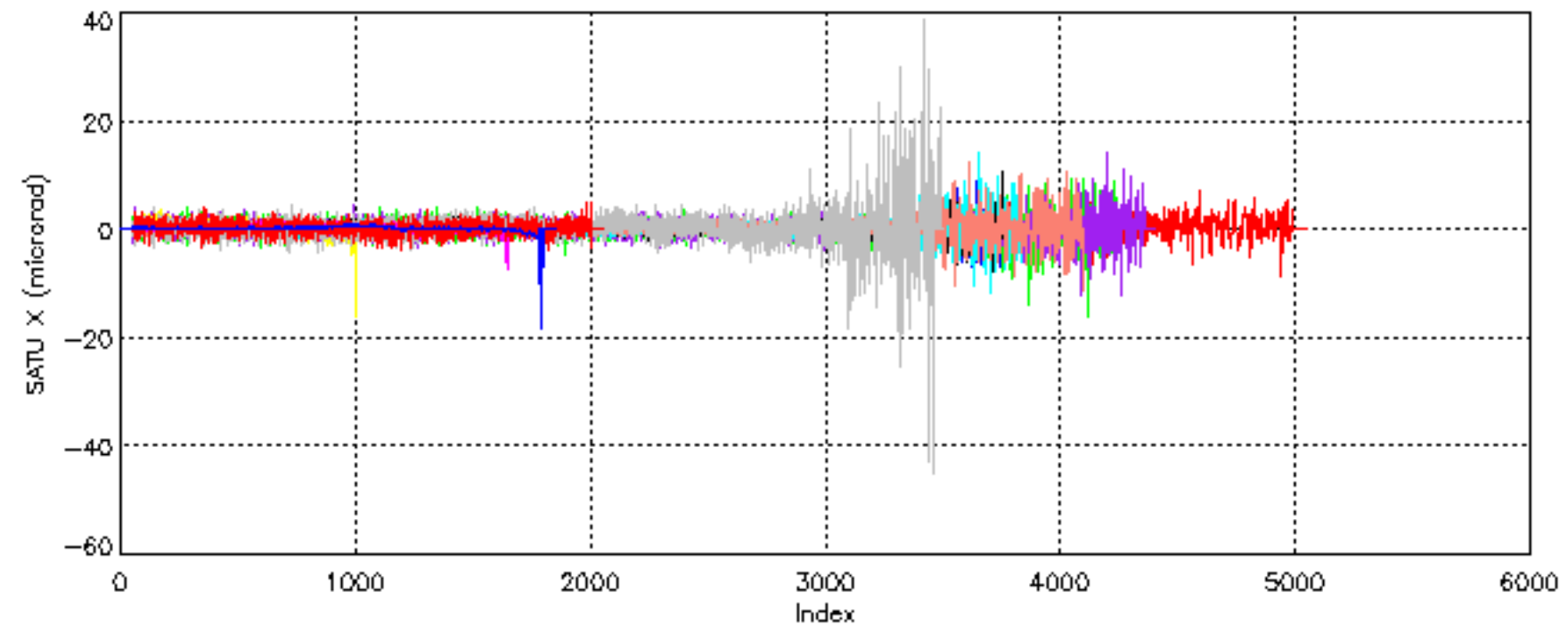


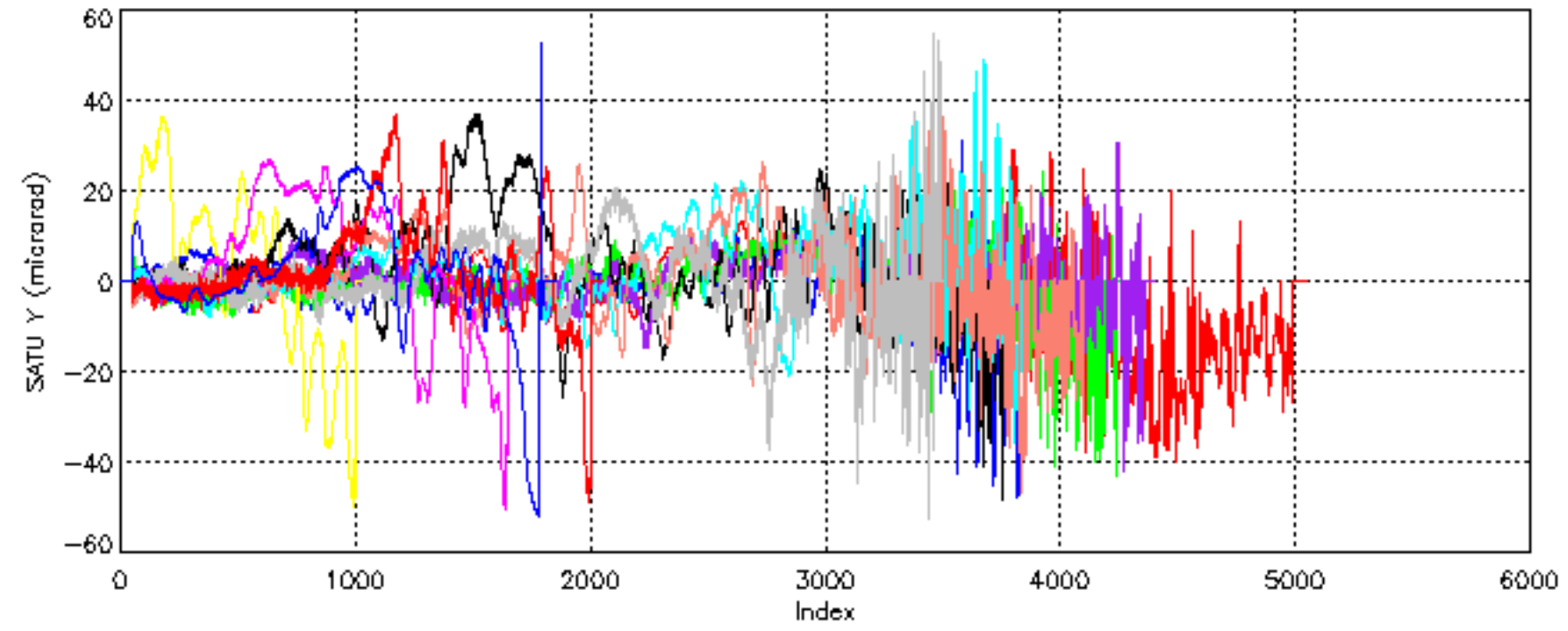
Tangent altitude at which the star is lost

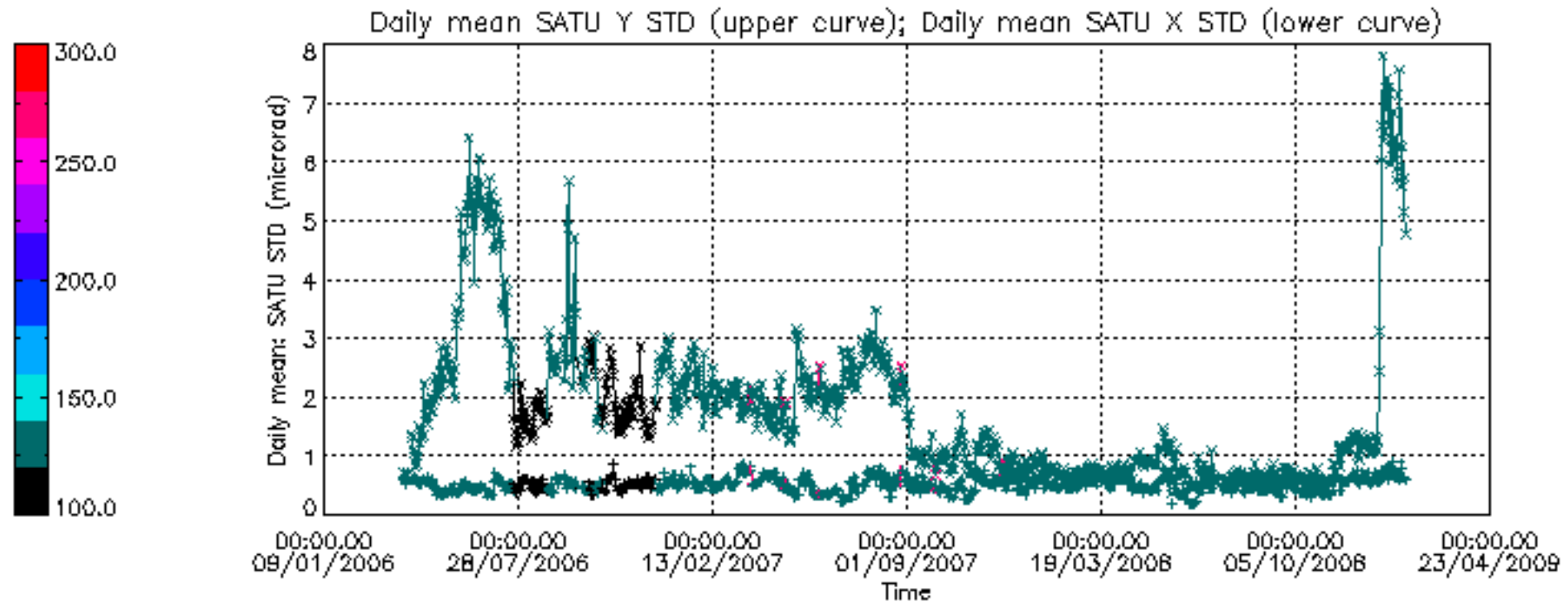


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090101_013614_000038262075_00131_35756_7133.N1

1; -100.5; 01-JAN-2009 01:36:14; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35756
 2; 41.0; 01-JAN-2009 01:38:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;35757
 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

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1; -2114.0; 01-JAN-2009 02:43:16; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35757
 2; -1682.7; 01-JAN-2009 02:50:28; Bright; 32.0; 180; 27Gam Boo ; 3.04; 8000;occ; 64; 0;35757
 3; -1489.1; 01-JAN-2009 02:53:41; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;35757
 4; -1144.0; 01-JAN-2009 02:59:26; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;35757
 5; -839.6; 01-JAN-2009 03:04:31; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;35757
 6; -679.6; 01-JAN-2009 03:07:11; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;35757
 7; -278.4; 01-JAN-2009 03:13:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;35757
 8; -100.0; 01-JAN-2009 03:16:50; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35757
 9; 41.8; 01-JAN-2009 03:19:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;35758
 10; 214.8; 01-JAN-2009 03:22:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35758
 11; 433.3; 01-JAN-2009 03:25:44; Dark ; 26.5; 124; The Car ; 2.76; 30000;occ; 53; 0;35758
 12; 549.2; 01-JAN-2009 03:27:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35758
 13; 633.5; 01-JAN-2009 03:29:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35758
 14; 728.2; 01-JAN-2009 03:30:38; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;35758
 15; 980.4; 01-JAN-2009 03:34:51; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;35758
 16; 1174.5; 01-JAN-2009 03:38:05; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;35758
 17; 1342.1; 01-JAN-2009 03:40:52; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;35758
 18; 1434.6; 01-JAN-2009 03:42:25; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;35758
 19; 1582.1; 01-JAN-2009 03:44:52; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35758
 20; 1770.4; 01-JAN-2009 03:48:01; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;35758
 21; 1881.8; 01-JAN-2009 03:49:52; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35758
 22; 2032.6; 01-JAN-2009 03:52:23; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35758
 23; 2270.7; 01-JAN-2009 03:56:21; Bright; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;35758
 24; 2397.1; 01-JAN-2009 03:58:27; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35758
 25; 2472.7; 01-JAN-2009 03:59:43; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35758
 26; 2566.0; 01-JAN-2009 04:01:16; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35758
 27; 2692.4; 01-JAN-2009 04:03:23; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35758
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12;	751.6;	04-JAN-2009	23:43:58;	Dark	;	52.0;	41;	Eps Car	;	1.86;	4100;occ;	104;	0;	35813
13;	993.5;	04-JAN-2009	23:48:00;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	35813
14;	1076.8;	04-JAN-2009	23:49:23;	Dark	;	43.5;	70;	Zet Pup	;	2.25;	39000;occ;	87;	0;	35813
15;	1193.8;	04-JAN-2009	23:51:20;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	35813
16;	1356.9;	04-JAN-2009	23:54:03;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	35813
17;	1446.8;	04-JAN-2009	23:55:33;	Dark	;	44.5;	179;	240mi2CMA	;	3.03;	24000;occ;	89;	0;	35813
18;	1589.4;	04-JAN-2009	23:57:56;	Dark	;	46.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	93;	0;	35813
19;	1778.2;	05-JAN-2009	00:01:04;	Dark	;	45.5;	7;	19Bet Ori	;	0.10;	14000;occ;	91;	0;	35813
20;	1886.0;	05-JAN-2009	00:02:52;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	35813
21;	2030.7;	05-JAN-2009	00:05:17;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;occ;	100;	0;	35813
22;	2211.3;	05-JAN-2009	00:08:18;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	35813
23;	2311.3;	05-JAN-2009	00:09:58;	Bright;	;	46.0;	151;	13Mu Gem	;	2.89;	3000;occ;	92;	0;	35813
24;	2394.5;	05-JAN-2009	00:11:21;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	35813
25;	2475.6;	05-JAN-2009	00:12:42;	Bright;	;	36.5;	114;	3Iot Aur	;	2.69;	4600;occ;	73;	0;	35813
26;	2553.8;	05-JAN-2009	00:14:00;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	35813
27;	2689.1;	05-JAN-2009	00:16:15;	Bright;	;	52.0;	6;	13Alp Aur	;	0.08;	3400;occ;	104;	0;	35813
28;	3424.2;	05-JAN-2009	00:28:30;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	35813
29;	3684.3;	05-JAN-2009	00:32:50;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	35813
30;	3924.1;	05-JAN-2009	00:36:50;	Bright;	;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	35813
31;	4058.5;	05-JAN-2009	00:39:05;	Bright;	;	36.0;	130;	23Bet Dra	;	2.80;	5800;occ;	72;	0;	35813
32;	4431.1;	05-JAN-2009	00:45:17;	Bright;	;	35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	35813
33;	4556.9;	05-JAN-2009	00:47:23;	Bright;	;	45.5;	67;	5Alp CrB	;	2.22;	11000;occ;	91;	0;	35813
34;	4909.9;	05-JAN-2009	00:53:16;	Bright;	;	37.0;	102;	24Alp Ser	;	2.60;	4250;occ;	74;	0;	35813
35;	5045.6;	05-JAN-2009	00:55:32;	Bright;	;	35.0;	120;	1Del Oph	;	2.73;	3200;occ;	70;	0;	35813
36;	5224.2;	05-JAN-2009	00:58:30;	Bright;	;	41.0;	104;	27Bet Lib	;	2.61;	13100;occ;	82;	0;	35813
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3;	-1978.7;	04-JAN-2009	06:12:28;	Bright;	;	32.5;	130;	23Bet Dra	;	2.80;	5800;occ;	65;	0;	35802
4;	-1606.3;	04-JAN-2009	06:18:41;	Bright;	;	33.0;	133;	40Zet Her	;	2.81;	6000;occ;	66;	0;	35802
5;	-1480.8;	04-JAN-2009	06:20:46;	Bright;	;	38.5;	67;	5Alp CrB	;	2.22;	11000;occ;	77;	0;	35802
6;	-1129.7;	04-JAN-2009	06:26:37;	Bright;	;	46.5;	102;	24Alp Ser	;	2.60;	4250;occ;	93;	0;	35802
7;	-993.3;	04-JAN-2009	06:28:54;	Bright;	;	34.0;	120;	1Del Oph	;	2.73;	3200;occ;	68;	0;	35802

8; -817.8; 04-JAN-2009 06:31:49; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;35802
9; -651.2; 04-JAN-2009 06:34:36; Dark ; 48.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 97; 0;35802
10; -342.3; 04-JAN-2009 06:39:45; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;35802
11; -257.3; 04-JAN-2009 06:41:10; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35802
12; -167.3; 04-JAN-2009 06:42:40; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;35802
13; -71.4; 04-JAN-2009 06:44:16; Dark ; 37.5; 95; Zet Cen ; 2.55; 26000;occ; 75; 0;35802
14; 15.7; 04-JAN-2009 06:45:43; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;35803
15; 148.0; 04-JAN-2009 06:47:55; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;35803
16; 256.8; 04-JAN-2009 06:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
17; 456.7; 04-JAN-2009 06:53:04; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35803
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21; 992.1; 04-JAN-2009 07:01:59; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;35803
22; 1190.7; 04-JAN-2009 07:05:18; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35803
23; 1354.5; 04-JAN-2009 07:08:02; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
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6; 2268.9; 04-JAN-2009 07:23:16; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;35803
7; 2396.0; 04-JAN-2009 07:25:23; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;35803
8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803
9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803
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13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803
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21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803
25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;35803
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803
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35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803
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5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804
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 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
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 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
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 31; 7240.7; 07-JAN-2009 10:32:28; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;35847
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13; 3924.3; 07-JAN-2009 12:58:24; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;35849
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23;	5736.8;	11-JAN-2009	16:23:56;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	35908
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26;	6040.1;	11-JAN-2009	16:28:59;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	35908
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28;	6392.7;	11-JAN-2009	16:34:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35908
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33;	7024.0;	11-JAN-2009	16:45:23;	Dark	;	44.0;	34;	Gam2Vel	;	1.79;	23000;occ;	88;	0;	35908
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13;	2675.0;	11-JAN-2009	17:13:30;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	35909
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26;	5836.1;	11-JAN-2009	18:06:11;	Dark	;	40.5;	109;	Bet Lup	;	2.68;	26000;occ;	81;	0;	35909
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 4; 2275.7; 15-JAN-2009 09:58:34; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;35962
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 6; 2540.7; 15-JAN-2009 10:02:59; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;35962
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 8; 3425.8; 15-JAN-2009 10:17:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;35962
 9; 3662.8; 15-JAN-2009 10:21:42; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;35962

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 11; 4076.5; 15-JAN-2009 10:28:35; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;35962
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 13; 4640.3; 15-JAN-2009 10:37:59; Bright; 55.0; 127; 27Bet Her ; 2.78; 4700;occ; 110; 0;35962
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 15; 5099.6; 15-JAN-2009 10:45:38; Bright; 52.5; 120; 1Del Oph ; 2.73; 3200;occ; 105; 0;35962
 16; 5180.9; 15-JAN-2009 10:47:00; Bright; 51.0; 98; 13Zet Oph ; 2.57; 30000;occ; 102; 0;35962
 17; 5448.2; 15-JAN-2009 10:51:27; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;35962
 18; 5764.3; 15-JAN-2009 10:56:43; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;35962
 19; 5916.8; 15-JAN-2009 10:59:16; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;35962
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 21; 6114.3; 15-JAN-2009 11:02:33; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35962
 22; 6377.9; 15-JAN-2009 11:06:57; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;35962
 23; 6572.3; 15-JAN-2009 11:10:11; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35962
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 25; 6769.5; 15-JAN-2009 11:13:28; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35962
 26; 6881.5; 15-JAN-2009 11:15:20; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;35962
 27; 7044.4; 15-JAN-2009 11:18:03; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;35962
 28; 7173.4; 15-JAN-2009 11:20:12; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;35962
 29; 7273.6; 15-JAN-2009 11:21:52; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;35962
 30; 7426.7; 15-JAN-2009 11:24:26; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;35962
 31; 7512.1; 15-JAN-2009 11:25:51; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;35962
 32; 7645.3; 15-JAN-2009 11:28:04; Dark ; 16.0; 1; 9Alp CMa ;-1.44; 11000;occ; 32; 0;35962

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 15; 5100.3; 15-JAN-2009 12:26:15; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;35963
 16; 5181.0; 15-JAN-2009 12:27:36; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;35963
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 22; 6378.3; 15-JAN-2009 12:47:33; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;35963
 23; 6572.7; 15-JAN-2009 12:50:47; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35963
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 25; 6769.8; 15-JAN-2009 12:54:04; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;35963
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 14; 4972.8; 15-JAN-2009 14:04:43; Bright; 62.0; 102; 24Alp Ser ; 2.60; 4250;occ; 124; 0;35964
 15; 5100.0; 15-JAN-2009 14:06:51; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;35964
 16; 5181.6; 15-JAN-2009 14:08:12; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;35964
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 22; 6379.0; 15-JAN-2009 14:28:10; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;35964
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 29; 7274.4; 15-JAN-2009 14:43:05; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;35964
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 13; 4077.0; 15-JAN-2009 15:30:23; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;35965
 14; 4454.1; 15-JAN-2009 15:36:41; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;35965
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 16; 4973.3; 15-JAN-2009 15:45:20; Bright; 62.0; 102; 24Alp Ser ; 2.60; 4250;occ; 124; 0;35965
 17; 5100.5; 15-JAN-2009 15:47:27; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;35965
 18; 5181.8; 15-JAN-2009 15:48:48; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;35965
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18; 5182.6; 15-JAN-2009 17:29:25; Bright; 54.0; 98; 13Zet Oph ; 2.57; 30000;occ; 108; 0;35966
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22; 5996.8; 15-JAN-2009 17:42:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35966
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26; 6655.1; 15-JAN-2009 17:53:58; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35966
27; 6771.5; 15-JAN-2009 17:55:54; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35966
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29; 7046.9; 15-JAN-2009 18:00:29; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;35966
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4;	-235.4;	19-JAN-2009	22:15:38;	Dark	; 38.0;	131;	Gam Lup	; 2.80;	26000;occ;	76;	0;	36026
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19; 1629.9; 24-JAN-2009 21:49:14; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;36098
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21; 2188.0; 24-JAN-2009 21:58:32; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36098
22; 2295.1; 24-JAN-2009 22:00:19; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;36098
23; 2414.2; 24-JAN-2009 22:02:18; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36098
24; 2549.5; 24-JAN-2009 22:04:33; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36098
25; 2677.4; 24-JAN-2009 22:06:41; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36098
26; 3426.8; 24-JAN-2009 22:19:11; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36098
27; 3636.3; 24-JAN-2009 22:22:40; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36098
28; 3910.4; 24-JAN-2009 22:27:14; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36098
29; 4085.4; 24-JAN-2009 22:30:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36098
30; 4289.7; 24-JAN-2009 22:33:34; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;36098
31; 4473.2; 24-JAN-2009 22:36:37; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36098
32; 4674.3; 24-JAN-2009 22:39:58; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36098
33; 4771.4; 24-JAN-2009 22:41:35; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;36098
34; 4898.3; 24-JAN-2009 22:43:42; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36098
35; 5240.7; 24-JAN-2009 22:49:25; Dark ; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;36098

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 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099
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 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099
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 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36099
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36099
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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 3; -1950.6; 24-JAN-2009 07:24:46; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36089
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 5; -1363.8; 24-JAN-2009 07:34:33; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36089
 6; -1266.8; 24-JAN-2009 07:36:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;36089
 7; -1140.1; 24-JAN-2009 07:38:16; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36089
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 10; -443.0; 24-JAN-2009 07:49:54; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36089
 11; -195.3; 24-JAN-2009 07:54:01; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;36089
 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090
 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090
 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090
 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090
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 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090
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 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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 3; 2187.8; 24-JAN-2009 08:33:44; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36090
 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090
 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090
 6; 2548.5; 24-JAN-2009 08:39:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36090
 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36090
 9; 3638.2; 24-JAN-2009 08:57:55; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36090
 10; 3911.6; 24-JAN-2009 09:02:28; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;36090
 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090
 12; 4472.0; 24-JAN-2009 09:11:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36090
 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090
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 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090
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 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090
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 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;36090
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMA ;-1.44; 11000;occ; 83; 0;36090

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 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092
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 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092
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 11; 3911.2; 24-JAN-2009 12:23:40; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36092
 12; 4085.3; 24-JAN-2009 12:26:34; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36092
 13; 4472.3; 24-JAN-2009 12:33:01; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36092
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 15; 466.9; 31-JAN-2009 07:44:56; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190
 16; 586.3; 31-JAN-2009 07:46:56; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
 17; 706.7; 31-JAN-2009 07:48:56; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
 18; 821.5; 31-JAN-2009 07:50:51; Dark ; 32.0; 71; Iot Car ; 2.25; 7700;occ; 64; 0;36190
 19; 926.5; 31-JAN-2009 07:52:36; Dark ; 32.0; 46; Del Vel ; 1.95; 10600;occ; 64; 0;36190
 20; 1079.1; 31-JAN-2009 07:55:08; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190
 21; 1204.1; 31-JAN-2009 07:57:13; Dark ; 30.5; 70; Zet Pup ; 2.25; 39000;occ; 61; 0;36190
 22; 1411.6; 31-JAN-2009 08:00:41; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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1; 1993.0; 31-JAN-2009 08:10:22; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36190
 2; 2198.3; 31-JAN-2009 08:13:48; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36190

3; 2340.6; 31-JAN-2009 08:16:10; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36190
4; 2456.6; 31-JAN-2009 08:18:06; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36190
5; 3427.8; 31-JAN-2009 08:34:17; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36190
6; 3614.8; 31-JAN-2009 08:37:24; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;36190
7; 3897.8; 31-JAN-2009 08:42:07; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36190
8; 4087.4; 31-JAN-2009 08:45:17; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36190
9; 4304.3; 31-JAN-2009 08:48:54; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36190
10; 4795.7; 31-JAN-2009 08:57:05; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;36190
11; 4923.4; 31-JAN-2009 08:59:13; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;36190
12; 5311.0; 31-JAN-2009 09:05:40; Dark ; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;36190
13; 5568.8; 31-JAN-2009 09:09:58; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36190
14; 5704.2; 31-JAN-2009 09:12:14; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36190
15; 5915.0; 31-JAN-2009 09:15:44; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36190
16; 6048.1; 31-JAN-2009 09:17:57; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36190
17; 6138.9; 31-JAN-2009 09:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190
18; 6227.5; 31-JAN-2009 09:20:57; Dark ; 35.0; 4; Alp1Cen ; -0.01; 5800;occ; 70; 0;36190
19; 6342.8; 31-JAN-2009 09:22:52; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190
20; 6503.3; 31-JAN-2009 09:25:33; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190
21; 6623.0; 31-JAN-2009 09:27:32; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190
24; 6963.7; 31-JAN-2009 09:33:13; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36190
25; 7115.0; 31-JAN-2009 09:35:44; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190
26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190
27; 7447.5; 31-JAN-2009 09:41:17; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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1; 1993.2; 31-JAN-2009 09:50:59; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36191
2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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1; 1992.8; 31-JAN-2009 11:31:34; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36192
2; 2198.9; 31-JAN-2009 11:35:00; Bright; 31.0; 44; 24Gam Gem ; 1.93; 11000;occ; 62; 0;36192
3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192

15;	5917.0;	31-JAN-2009	12:36:58;	Dark	;	36.5;	131;	Gam Lup	;	2.80;	26000;occ;	73;	0;	36192
16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
19;	6344.6;	31-JAN-2009	12:44:06;	Dark	;	37.5;	77;	Eps Cen	;	2.30;	28000;occ;	75;	0;	36192
20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192