

GOMOS Daily Report 15-MAY-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	19MAY2009 04:40:21
Data source version	GOMOS/5.00
Start time of products	15MAY2009 00:01:10
Stop time of products	15MAY2009 20:12:24
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

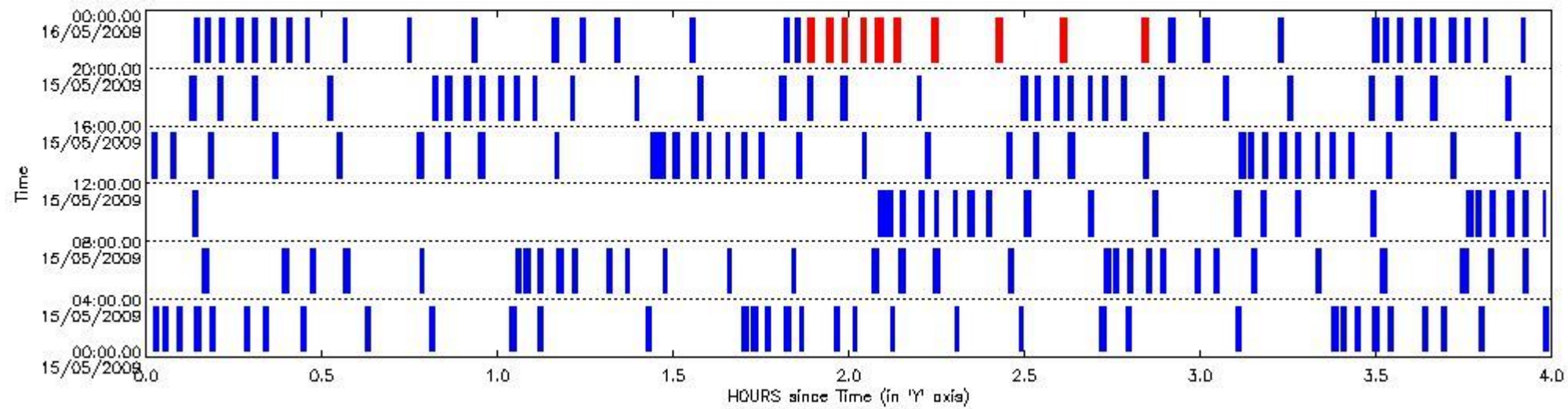
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

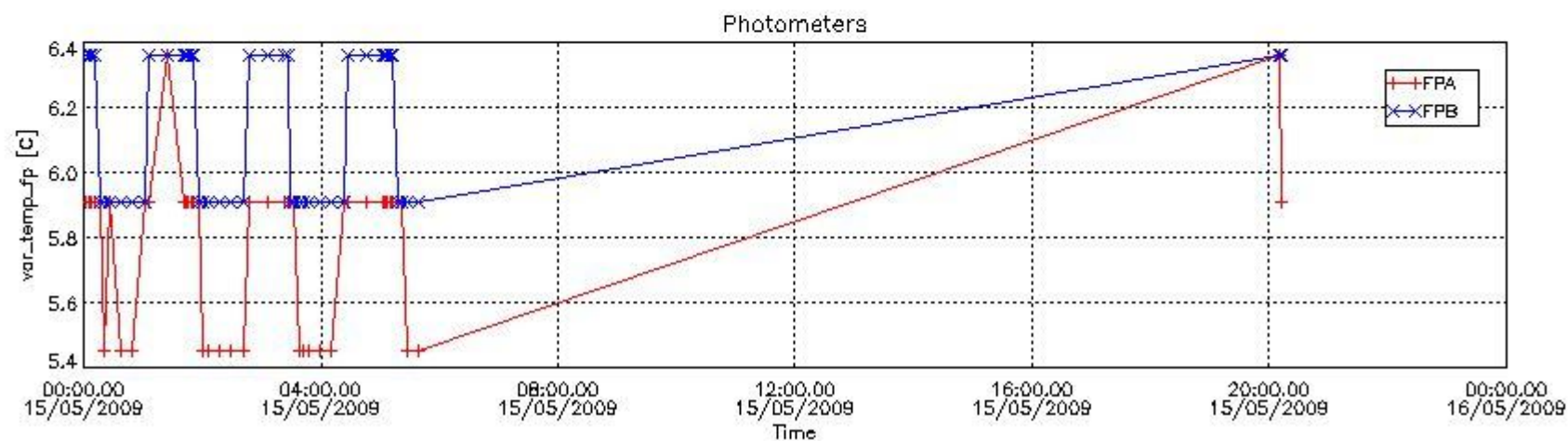
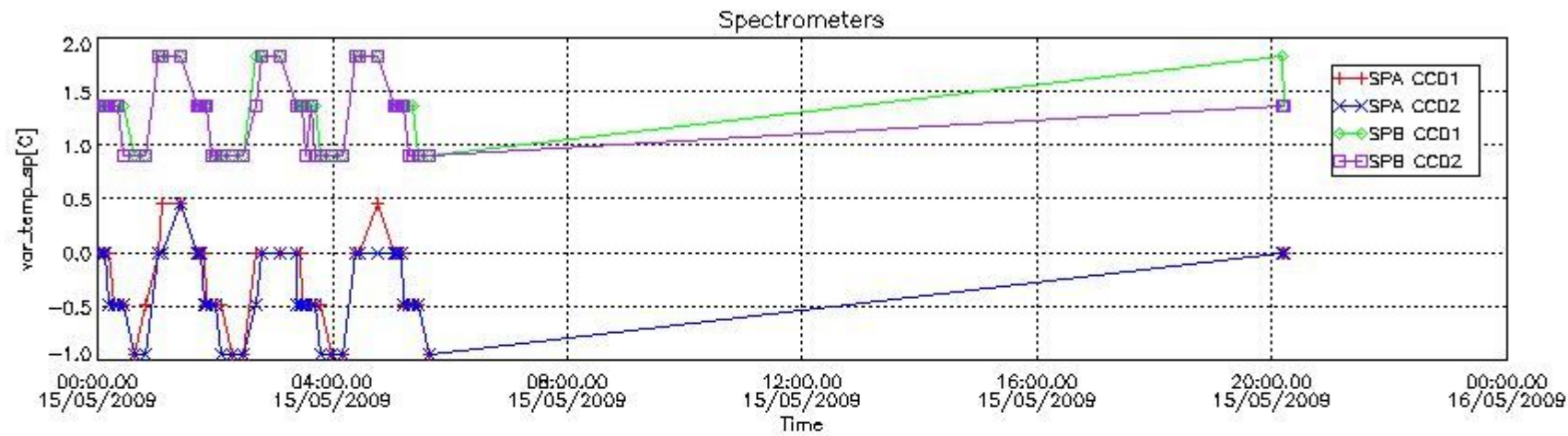
UTC start time	Star name	Star ID	Orbit
15-MAY-2009 21:53:00	26EpsSco	75	37687
15-MAY-2009 21:56:06	21AlpSco	16	37687
15-MAY-2009 21:58:43	8Bet1Sco	97	37687
15-MAY-2009 22:02:02	13ZetOph	98	37687
15-MAY-2009 22:04:33	1DelOph	120	37687
15-MAY-2009 22:07:43	24AlpSer	102	37687
15-MAY-2009 22:14:08	5AlpCrB	67	37687
15-MAY-2009 22:25:08	14EtaDra	119	37687
15-MAY-2009 22:36:05	5AlpCep	89	37687
15-MAY-2009 22:49:55	53BetPeg	93	37687

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_1PNPDE20090515_000110_000000592079_00045_37674_6076.N1	15-MAY-2009 00:01:10	Straylight	59.000	38	20Eps Sgr	1.8360	11000.	118	37674	No

2	GOM_TRA_1PNPDE20090515_000244_000000542079_00045_37674_6077.N1	15-MAY-2009 00:02:44	Straylight	54.000	25	35Lam Sco	1.6200	28000.	108	37674	No
3	GOM_TRA_1PNPDE20090515_000507_000000532079_00045_37674_6078.N1	15-MAY-2009 00:05:07	Twilight_stray	53.000	75	26Eps Sco	2.2910	4250.0	106	37674	No
4	GOM_TRA_1PNPDE20090515_000815_000000652079_00045_37674_6079.N1	15-MAY-2009 00:08:15	Twilight_stray	65.000	16	21Alp Sco	1.0200	3000.0	130	37674	No
5	GOM_TRA_1PNPDE20090515_001054_000000482079_00045_37674_6080.N1	15-MAY-2009 00:10:54	Bright	48.000	97	8Bet1Sco	2.5610	30000.	96	37674	No
6	GOM_TRA_1PNPDE20090515_001648_000000502079_00045_37674_6081.N1	15-MAY-2009 00:16:48	Bright	50.000	120	1Del Oph	2.7340	3200.0	100	37674	No
7	GOM_TRA_1PNPDE20090515_002000_000000442079_00045_37674_6082.N1	15-MAY-2009 00:20:00	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	37674	No
8	GOM_TRA_1PNPDE20090515_002627_000000442079_00045_37674_6083.N1	15-MAY-2009 00:26:27	Bright	44.000	67	5Alp CrB	2.2210	11000.	88	37674	No
9	GOM_TRA_1PNPDE20090515_003727_000000432079_00045_37674_6084.N1	15-MAY-2009 00:37:27	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37674	No
10	GOM_TRA_1PNPDE20090515_004823_000000422079_00045_37674_6085.N1	15-MAY-2009 00:48:23	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	37674	No
11	GOM_TRA_1PNPDE20090515_010205_000000632079_00045_37674_6086.N1	15-MAY-2009 01:02:05	Twilight_stray	63.000	93	53Bet Peg	2.5200	3100.0	126	37674	No
12	GOM_TRA_1PNPDE20090515_010644_000000552079_00045_37674_6087.N1	15-MAY-2009 01:06:44	Dark	55.000	90	54Alp Peg	2.4870	11000.	110	37674	No
13	GOM_TRA_1PNPDE20090515_012524_000000452079_00045_37674_6203.N1	15-MAY-2009 01:25:24	Dark	45.000	172	Gam Gru	3.0030	13100.	90	37674	No
14	GOM_TRA_1PNPDE20090515_014147_000000592079_00046_37675_6204.N1	15-MAY-2009 01:41:47	Straylight	59.000	38	20Eps Sgr	1.8360	11000.	118	37675	No
15	GOM_TRA_1PNPDE20090515_014320_000000552079_00046_37675_6205.N1	15-MAY-2009 01:43:20	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	37675	No
16	GOM_TRA_1PNPDE20090515_014543_000000542079_00046_37675_6206.N1	15-MAY-2009 01:45:43	Twilight_stray	53.500	75	26Eps Sco	2.2910	4250.0	107	37675	No
17	GOM_TRA_1PNPDE20090515_014851_000000632079_00046_37675_6207.N1	15-MAY-2009 01:48:51	Twilight_stray	62.500	16	21Alp Sco	1.0200	3000.0	125	37675	No
18	GOM_TRA_1PNPDE20090515_015130_000000452079_00046_37675_6208.N1	15-MAY-2009 01:51:30	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	37675	No
19	GOM_TRA_1PNPDE20090515_015724_000000522079_00046_37675_6209.N1	15-MAY-2009 01:57:24	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37675	No
20	GOM_TRA_1PNPDE20090515_020036_000000452079_00046_37675_6210.N1	15-MAY-2009 02:00:36	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37675	No
21	GOM_TRA_1PNPDE20090515_020703_000000442079_00046_37675_6211.N1	15-MAY-2009 02:07:03	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	37675	No
22	GOM_TRA_1PNPDE20090515_021803_000000422079_00046_37675_6212.N1	15-MAY-2009 02:18:03	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	37675	No
23	GOM_TRA_1PNPDE20090515_022859_000000442079_00046_37675_6213.N1	15-MAY-2009 02:28:59	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	37675	No
24	GOM_TRA_1PNPDE20090515_024241_000000642079_00046_37675_6350.N1	15-MAY-2009 02:42:41	Twilight_stray	63.500	93	53Bet Peg	2.5200	3100.0	127	37675	No
25	GOM_TRA_1PNPDE20090515_024721_000000532079_00046_37675_6351.N1	15-MAY-2009 02:47:21	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	37675	No
26	GOM_TRA_1PNPDE20090515_030601_000000452079_00046_37675_6352.N1	15-MAY-2009 03:06:01	Dark	44.500	172	Gam Gru	3.0030	13100.	89	37675	No
27	GOM_TRA_1PNPDE20090515_032224_000000612079_00047_37676_6353.N1	15-MAY-2009 03:22:24	Straylight	61.000	38	20Eps Sgr	1.8360	11000.	122	37676	No
28	GOM_TRA_1PNPDE20090515_032357_000000532079_00047_37676_6354.N1	15-MAY-2009 03:23:57	Straylight	52.500	25	35Lam Sco	1.6200	28000.	105	37676	No
29	GOM_TRA_1PNPDE20090515_032620_000000492079_00047_37676_6355.N1	15-MAY-2009 03:26:20	Twilight_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	37676	No
30	GOM_TRA_1PNPDE20090515_032928_000000562079_00047_37676_6356.N1	15-MAY-2009 03:29:28	Twilight_stray	55.500	16	21Alp Sco	1.0200	3000.0	111	37676	No
31	GOM_TRA_1PNPDE20090515_033206_000000462079_00047_37676_6357.N1	15-MAY-2009 03:32:06	Bright	46.000	97	8Bet1Sco	2.5610	30000.	92	37676	No
32	GOM_TRA_1PNPDE20090515_033800_000000542079_00047_37676_6358.N1	15-MAY-2009 03:38:00	Bright	53.500	120	1Del Oph	2.7340	3200.0	107	37676	No
33	GOM_TRA_1PNPDE20090515_034111_000000442079_00047_37676_6359.N1	15-MAY-2009 03:41:11	Bright	43.500	102	24Alp Ser	2.6000	4250.0	87	37676	No
34	GOM_TRA_1PNPDE20090515_034738_000000442079_00047_37676_6360.N1	15-MAY-2009 03:47:38	Bright	44.000	67	5Alp CrB	2.2210	11000.	88	37676	No
35	GOM_TRA_1PNPDE20090515_035838_000000422079_00047_37676_6361.N1	15-MAY-2009 03:58:38	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37676	No
36	GOM_TRA_1PNPDE20090515_040934_000000652079_00047_37676_6507.N1	15-MAY-2009 04:09:34	Bright	65.000	89	5Alp Cep	2.4510	8000.0	130	37676	No
37	GOM_TRA_1PNPDE20090515_042318_000000652079_00047_37676_6508.N1	15-MAY-2009 04:23:18	Twilight_stray	64.500	93	53Bet Peg	2.5200	3100.0	129	37676	No
38	GOM_TRA_1PNPDE20090515_042757_000000552079_00047_37676_6509.N1	15-MAY-2009 04:27:57	Dark	54.500	90	54Alp Peg	2.4870	11000.	109	37676	No
39	GOM_TRA_1PNPDE20090515_044638_000000462079_00047_37676_6510.N1	15-MAY-2009 04:46:38	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37676	No
40	GOM_TRA_1PNPDE20090515_050301_000000612079_00048_37677_6511.N1	15-MAY-2009 05:03:01	Straylight	61.000	38	20Eps Sgr	1.8360	11000.	122	37677	No
41	GOM_TRA_1PNPDE20090515_050434_000000532079_00048_37677_6512.N1	15-MAY-2009 05:04:34	Straylight	52.500	25	35Lam Sco	1.6200	28000.	105	37677	No
42	GOM_TRA_1PNPDE20090515_050656_000000502079_00048_37677_6513.N1	15-MAY-2009 05:06:56	Twilight_stray	49.500	75	26Eps Sco	2.2910	4250.0	99	37677	No
43	GOM_TRA_1PNPDE20090515_051004_000000612079_00048_37677_6514.N1	15-MAY-2009 05:10:04	Twilight_stray	60.500	16	21Alp Sco	1.0200	3000.0	121	37677	No
44	GOM_TRA_1PNPDE20090515_051242_000000462079_00048_37677_6515.N1	15-MAY-2009 05:12:42	Bright	46.000	97	8Bet1Sco	2.5610	30000.	92	37677	No
45	GOM_TRA_1PNPDE20090515_051836_000000502079_00048_37677_6516.N1	15-MAY-2009 05:18:36	Bright	50.000	120	1Del Oph	2.7340	3200.0	100	37677	No
46	GOM_TRA_1PNPDE20090515_052147_000000452079_00048_37677_6517.N1	15-MAY-2009 05:21:47	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37677	No
47	GOM_TRA_1PNPDE20090515_052814_000000442079_00048_37677_6518.N1	15-MAY-2009 05:28:14	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	37677	No
48	GOM_TRA_1PNPDE20090515_053914_000000412079_00048_37677_6519.N1	15-MAY-2009 05:39:14	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	37677	No
49	GOM_TRA_1PNPDE20090515_201003_000000532079_00057_37686_7029.N1	15-MAY-2009 20:10:03	Straylight	53.000	25	35Lam Sco	1.6200	28000.	106	37686	No
50	GOM_TRA_1PNPDE20090515_201224_000000532079_00057_37686_7030.N1	15-MAY-2009 20:12:24	Twilight_stray	52.500	75	26Eps Sco	2.2910	4250.0	105	37686	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).

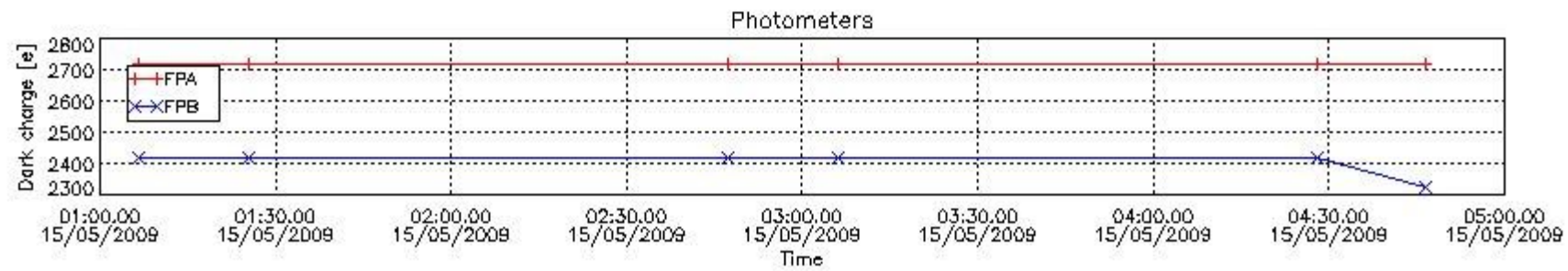
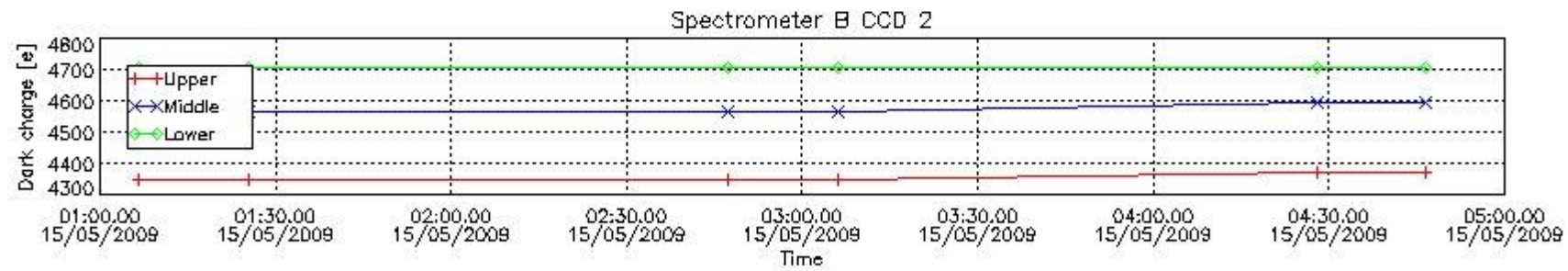
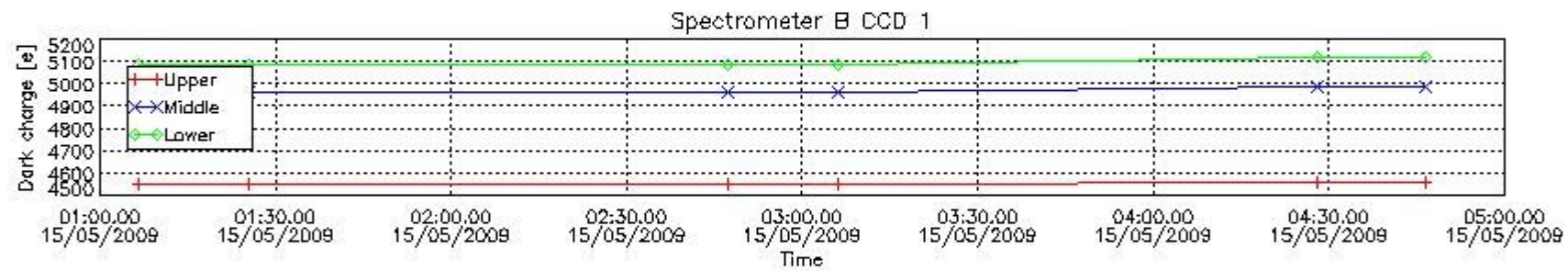
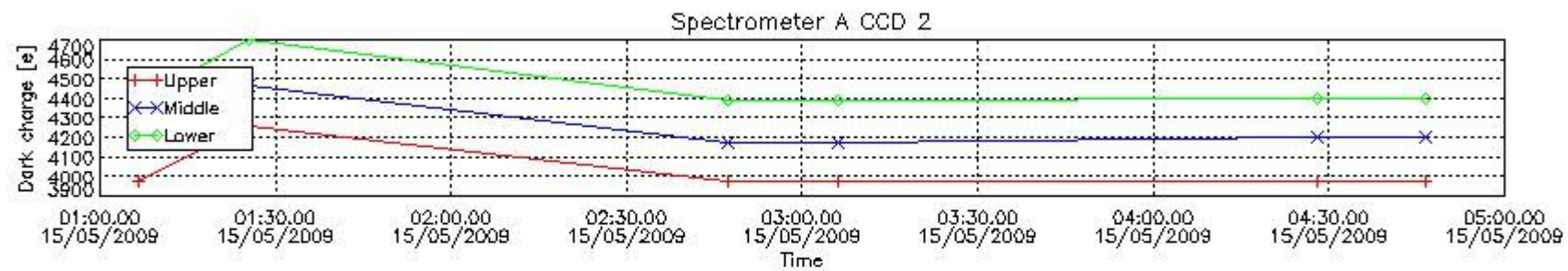
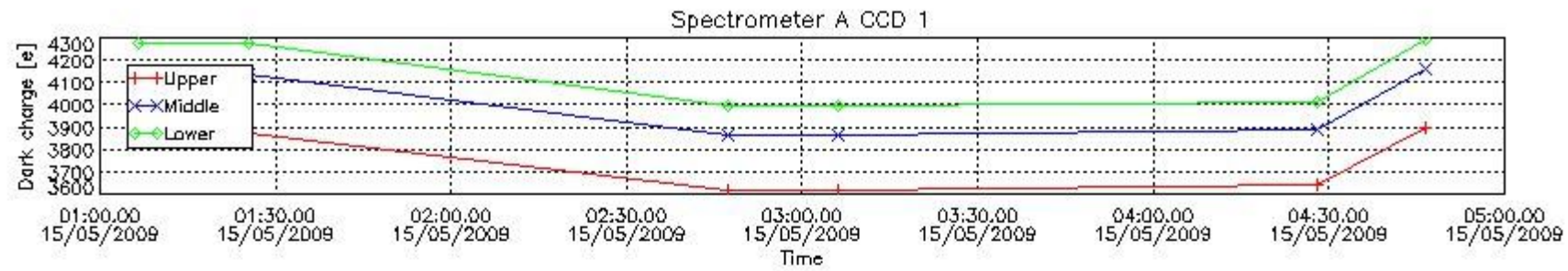
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090515_000110_000000592079_00045_37674_6076.N1	DC map used
GOM_TRA_1PNPDE20090515_000244_000000542079_00045_37674_6077.N1	DC map used
GOM_TRA_1PNPDE20090515_000507_000000532079_00045_37674_6078.N1	DC map used
GOM_TRA_1PNPDE20090515_000815_000000652079_00045_37674_6079.N1	DC map used
GOM_TRA_1PNPDE20090515_001054_000000482079_00045_37674_6080.N1	DC map used
GOM_TRA_1PNPDE20090515_001648_000000502079_00045_37674_6081.N1	DC map used
GOM_TRA_1PNPDE20090515_002000_000000442079_00045_37674_6082.N1	DC map used
GOM_TRA_1PNPDE20090515_002627_000000442079_00045_37674_6083.N1	DC map used
GOM_TRA_1PNPDE20090515_003727_000000432079_00045_37674_6084.N1	DC map used
GOM_TRA_1PNPDE20090515_004823_000000422079_00045_37674_6085.N1	DC map used
GOM_TRA_1PNPDE20090515_010205_000000632079_00045_37674_6086.N1	DC map used
GOM_TRA_1PNPDE20090515_010644_000000552079_00045_37674_6087.N1	DC map used
GOM_TRA_1PNPDE20090515_012524_000000452079_00045_37674_6203.N1	DC map used
GOM_TRA_1PNPDE20090515_014147_000000592079_00046_37675_6204.N1	DC map used

GOM_TRA_1PNPDE20090515_014320_000000552079_00046_37675_6205.N1	DC map used
GOM_TRA_1PNPDE20090515_014543_000000542079_00046_37675_6206.N1	DC map used
GOM_TRA_1PNPDE20090515_014851_000000632079_00046_37675_6207.N1	DC map used
GOM_TRA_1PNPDE20090515_015130_000000452079_00046_37675_6208.N1	DC map used
GOM_TRA_1PNPDE20090515_015724_000000522079_00046_37675_6209.N1	DC map used
GOM_TRA_1PNPDE20090515_020036_000000452079_00046_37675_6210.N1	DC map used
GOM_TRA_1PNPDE20090515_020703_000000442079_00046_37675_6211.N1	DC map used
GOM_TRA_1PNPDE20090515_021803_000000422079_00046_37675_6212.N1	DC map used
GOM_TRA_1PNPDE20090515_022859_000000442079_00046_37675_6213.N1	DC map used
GOM_TRA_1PNPDE20090515_024241_000000642079_00046_37675_6350.N1	DC map used
GOM_TRA_1PNPDE20090515_024721_000000532079_00046_37675_6351.N1	DC map used
GOM_TRA_1PNPDE20090515_030601_000000452079_00046_37675_6352.N1	DC map used
GOM_TRA_1PNPDE20090515_032224_000000612079_00047_37676_6353.N1	DC map used
GOM_TRA_1PNPDE20090515_032357_000000532079_00047_37676_6354.N1	DC map used
GOM_TRA_1PNPDE20090515_032620_000000492079_00047_37676_6355.N1	DC map used
GOM_TRA_1PNPDE20090515_032928_000000562079_00047_37676_6356.N1	DC map used
GOM_TRA_1PNPDE20090515_033206_000000462079_00047_37676_6357.N1	DC map used
GOM_TRA_1PNPDE20090515_033800_000000542079_00047_37676_6358.N1	DC map used
GOM_TRA_1PNPDE20090515_034111_000000442079_00047_37676_6359.N1	DC map used
GOM_TRA_1PNPDE20090515_034738_000000442079_00047_37676_6360.N1	DC map used
GOM_TRA_1PNPDE20090515_035838_000000422079_00047_37676_6361.N1	DC map used

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



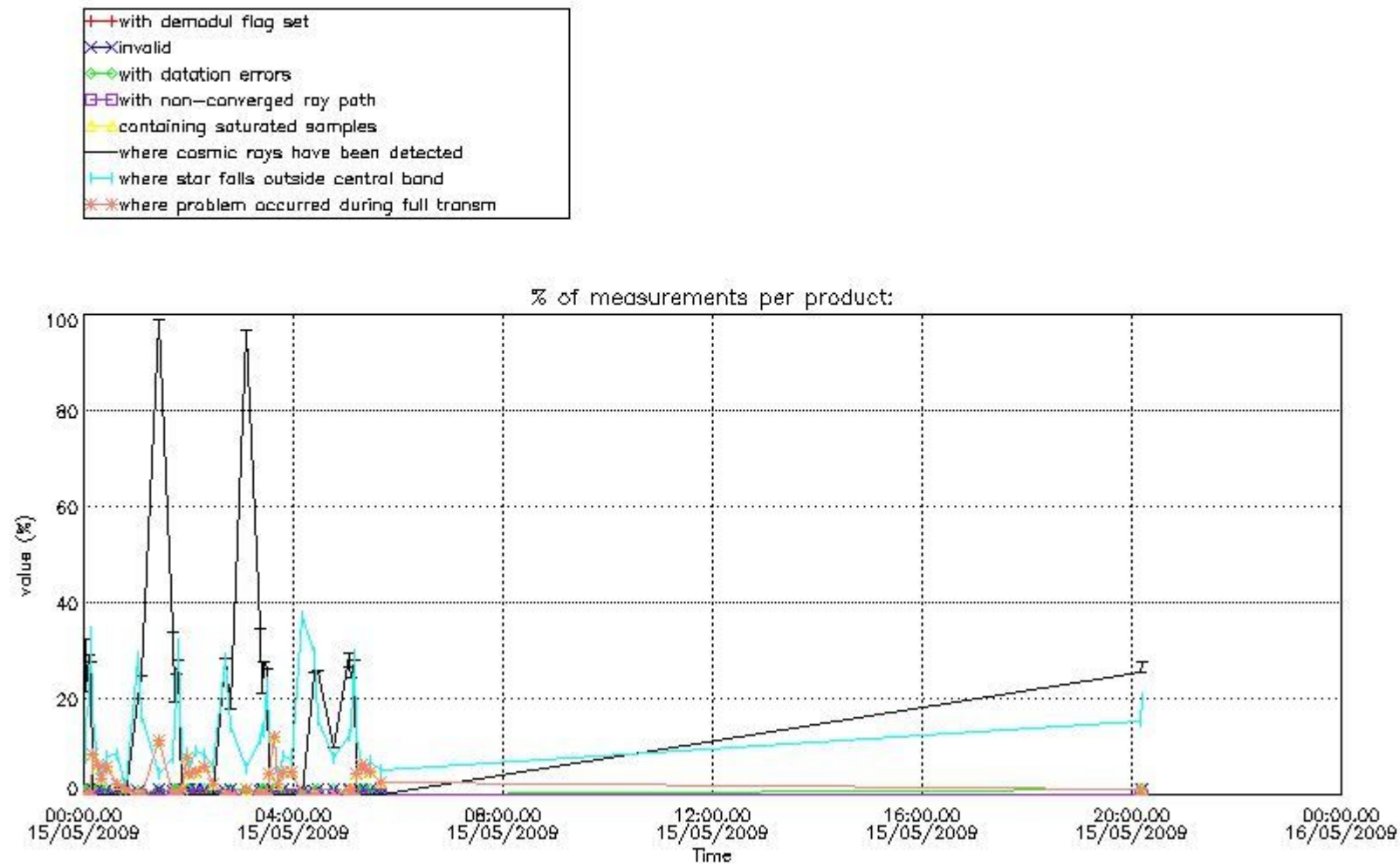
5. Demodulation flag and quality information monitoring

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.

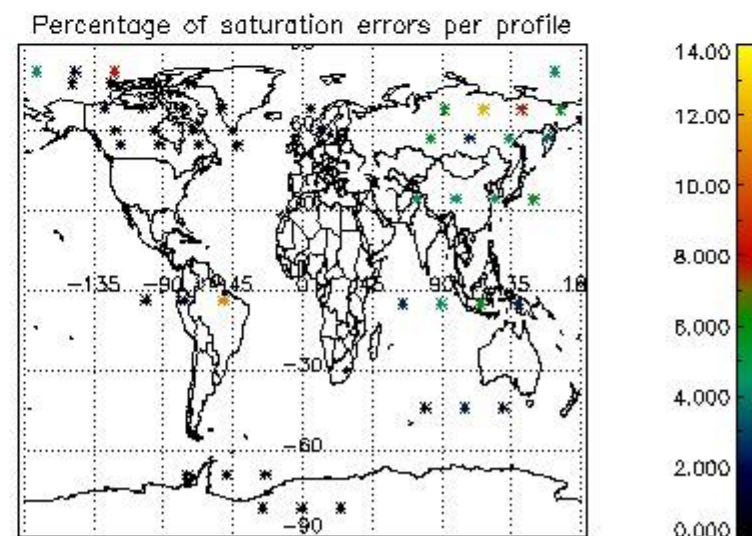
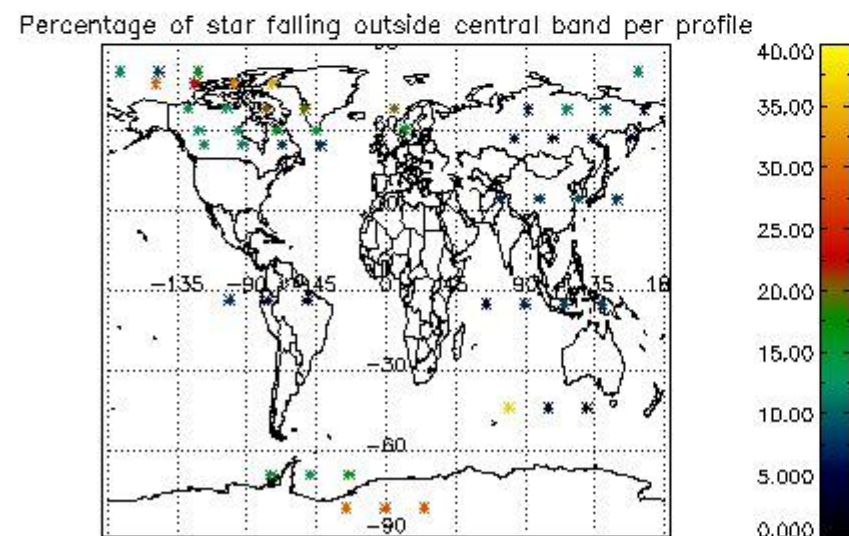
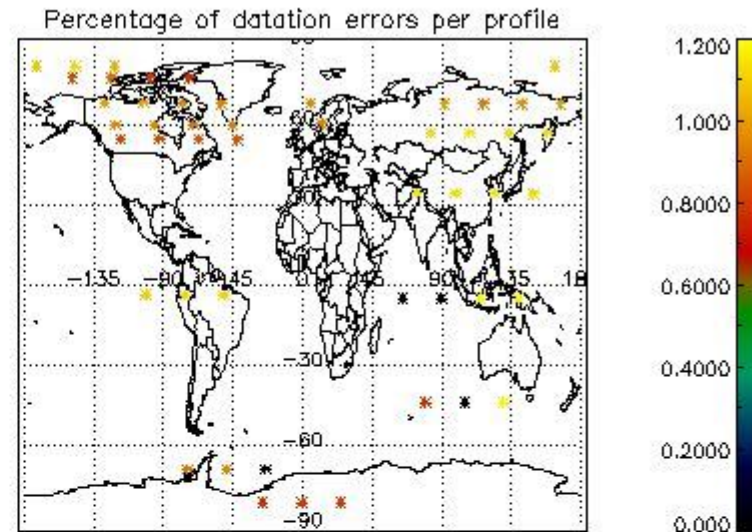
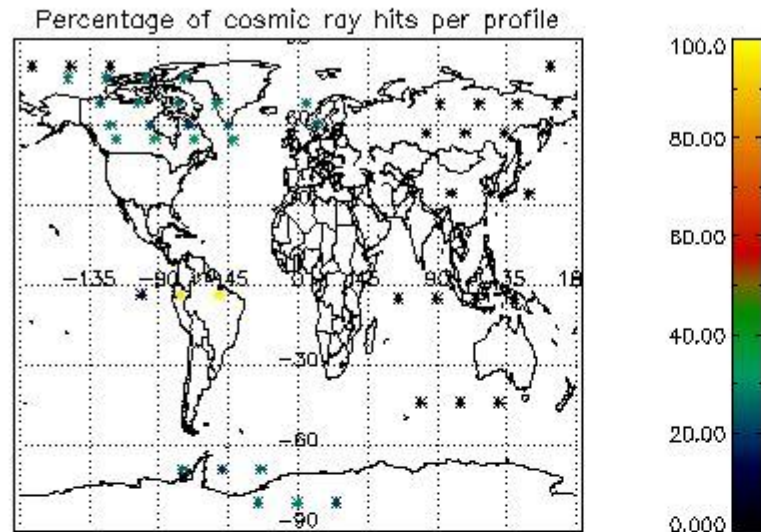
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



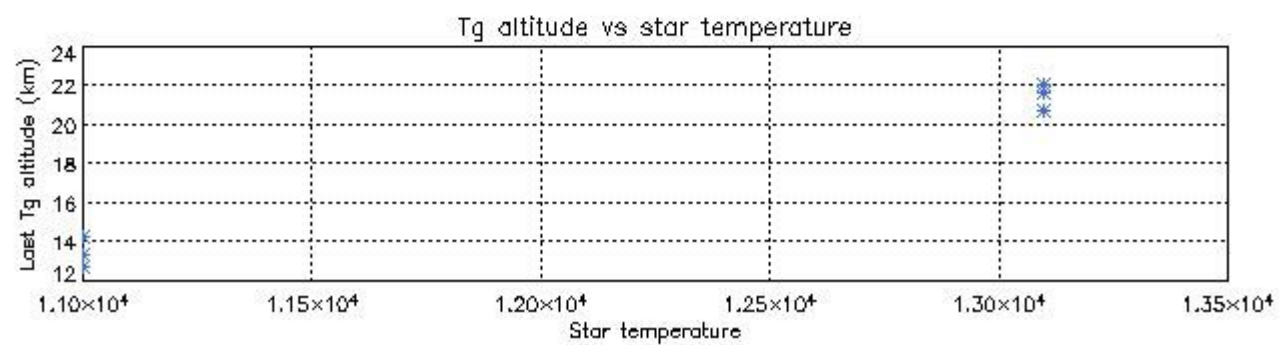
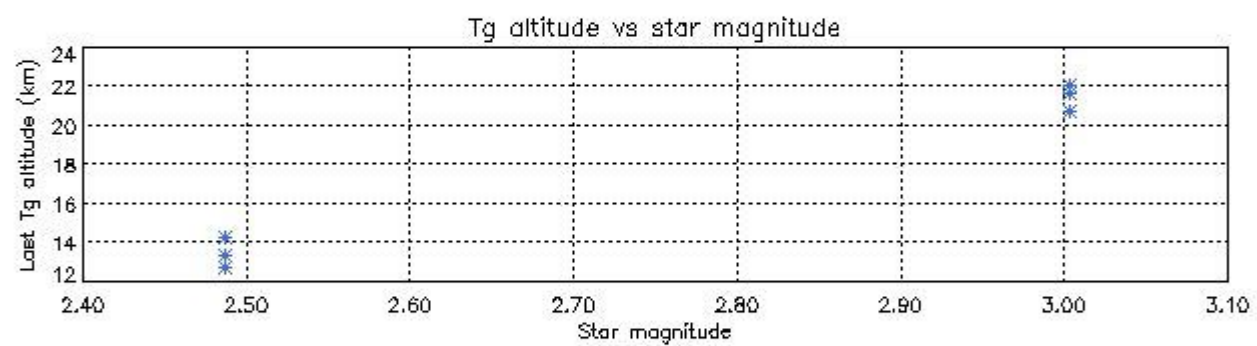
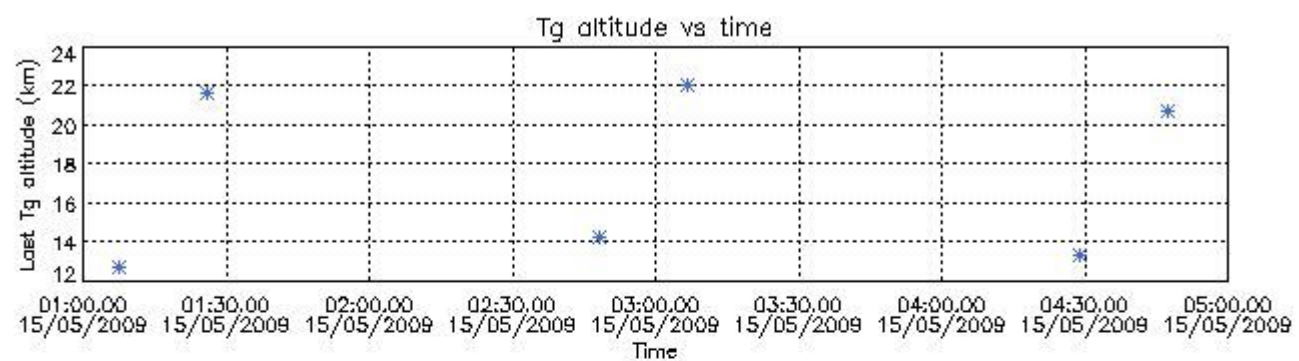
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.446	19.440	NaN
St. deviation:	4.4418	4.1589	NaN
Maximum:	22.050	25.231	NaN
Minimum:	12.682	3.4973	NaN
Number of data:	6.0000	23.000	NaN

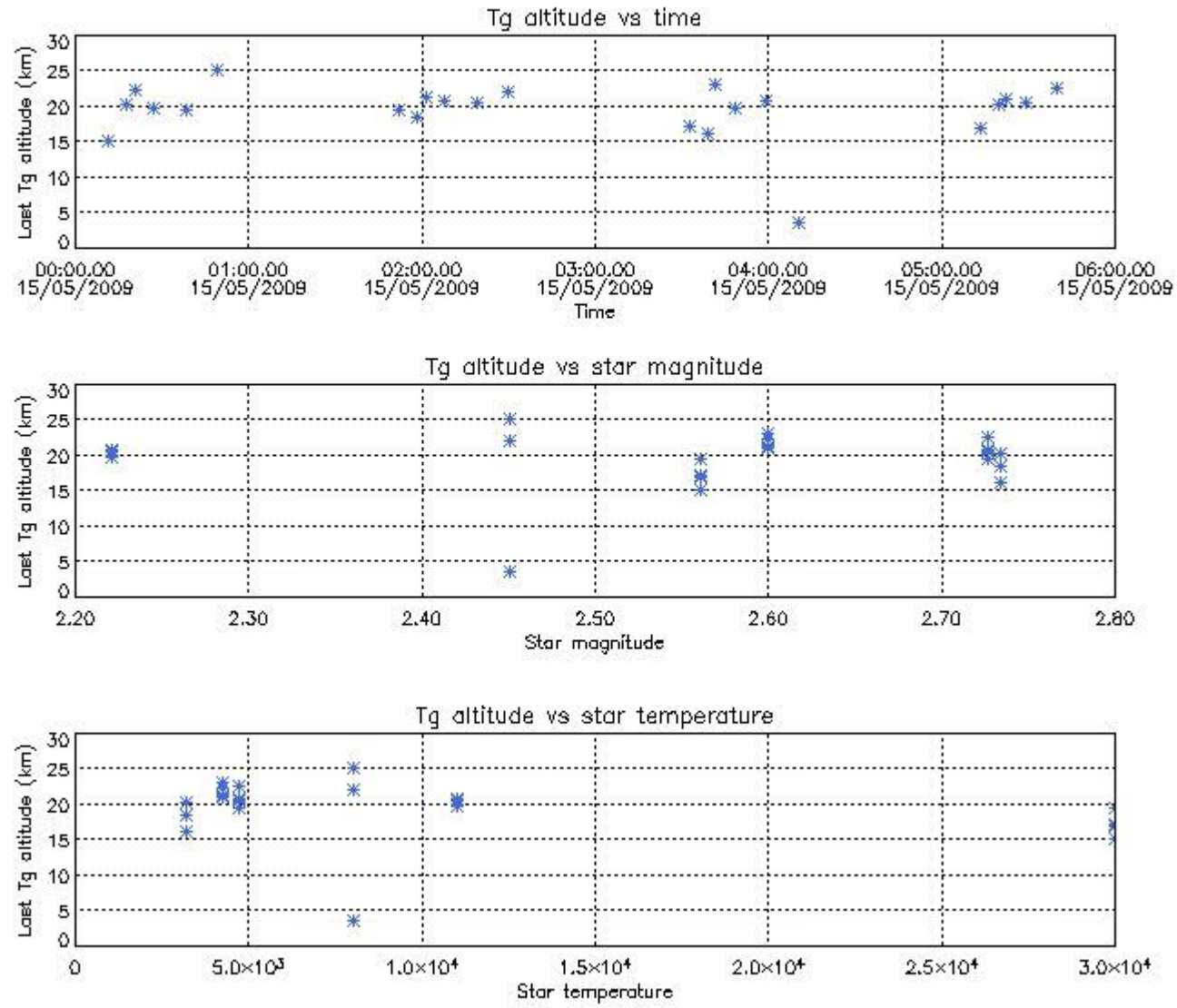
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

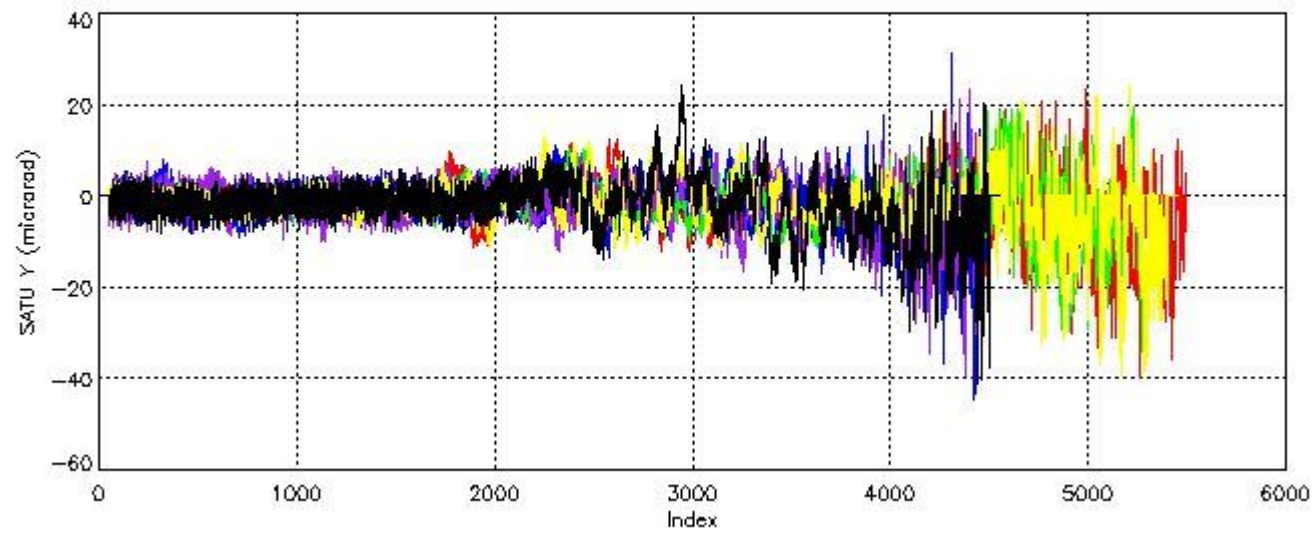
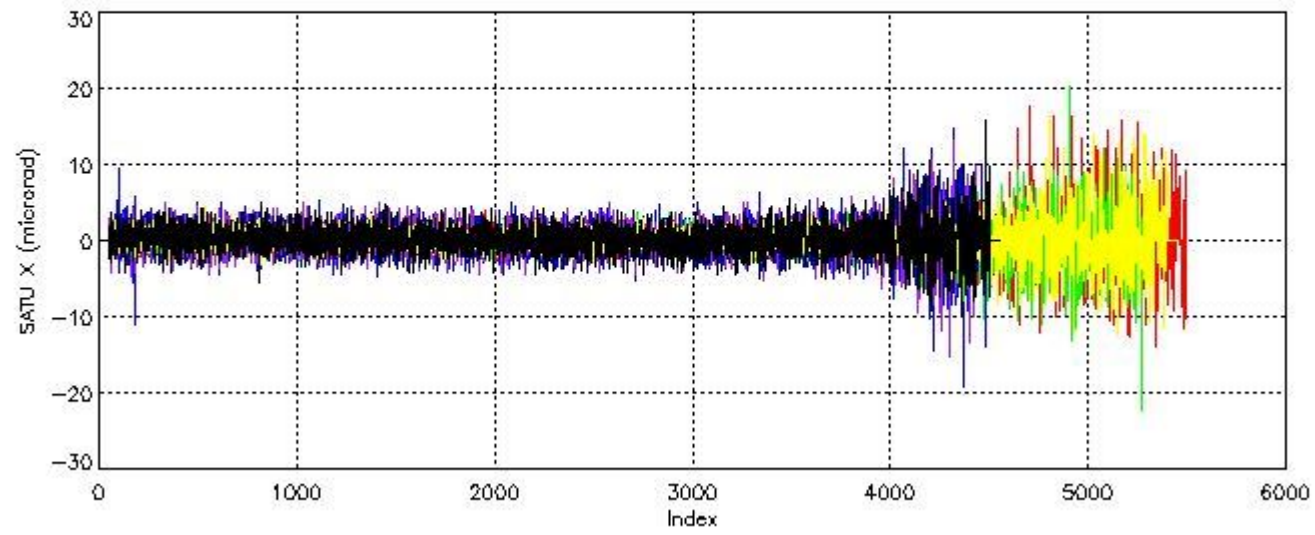


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28232	-1.1556	0.35194	-1.0346
St. deviation:	1.2848	2.3384	0.80284	1.4513
Maximum:	9.6000	8.2000	4.6000	5.9000
Minimum:	-11.000	-9.5000	-3.4000	-7.4000

Number of data:	6700.0	6700.0	23800.	23800.
-----------------	--------	--------	--------	--------

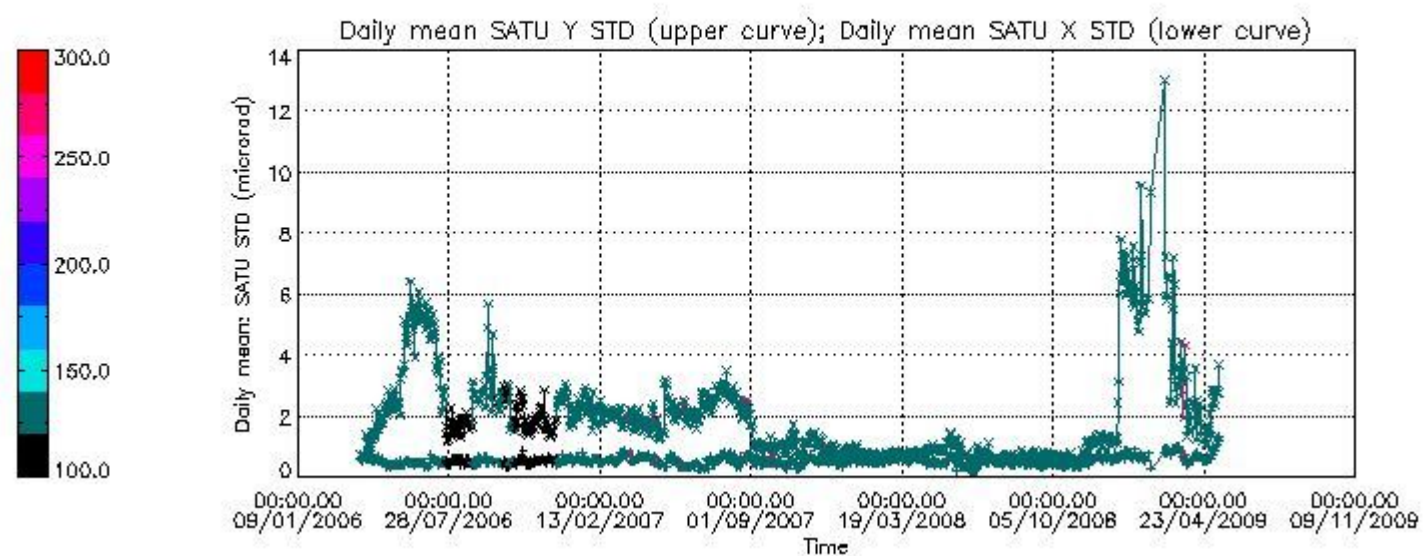
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

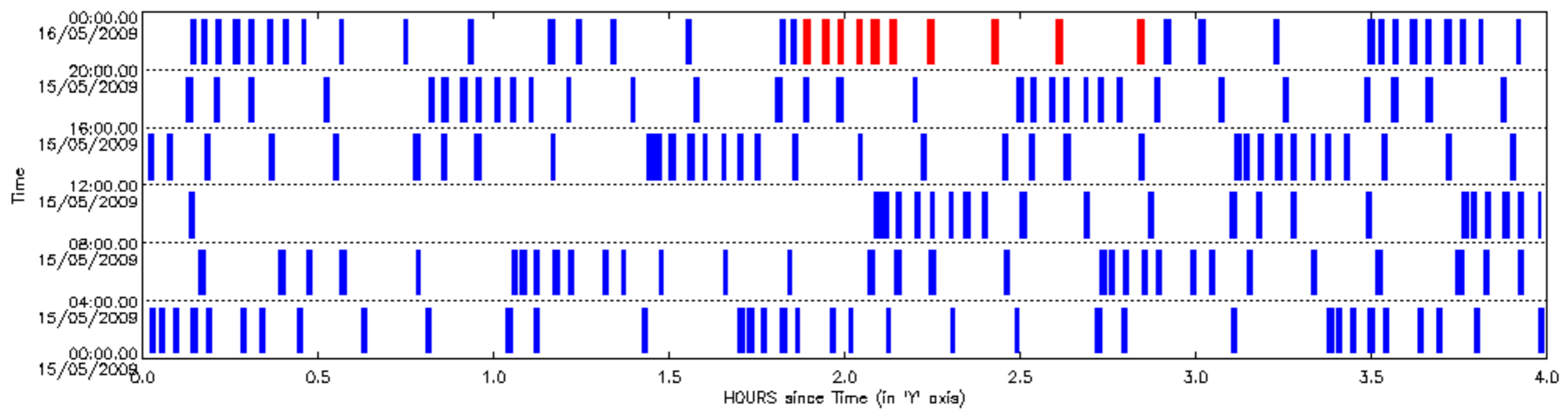
Lower curve: STD of SATU X axis

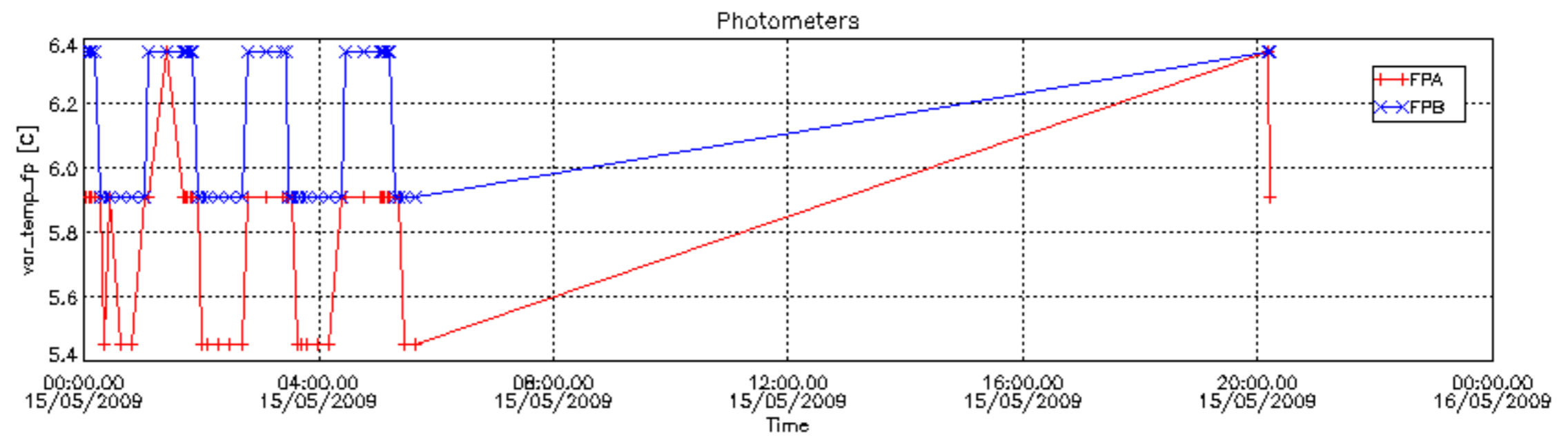
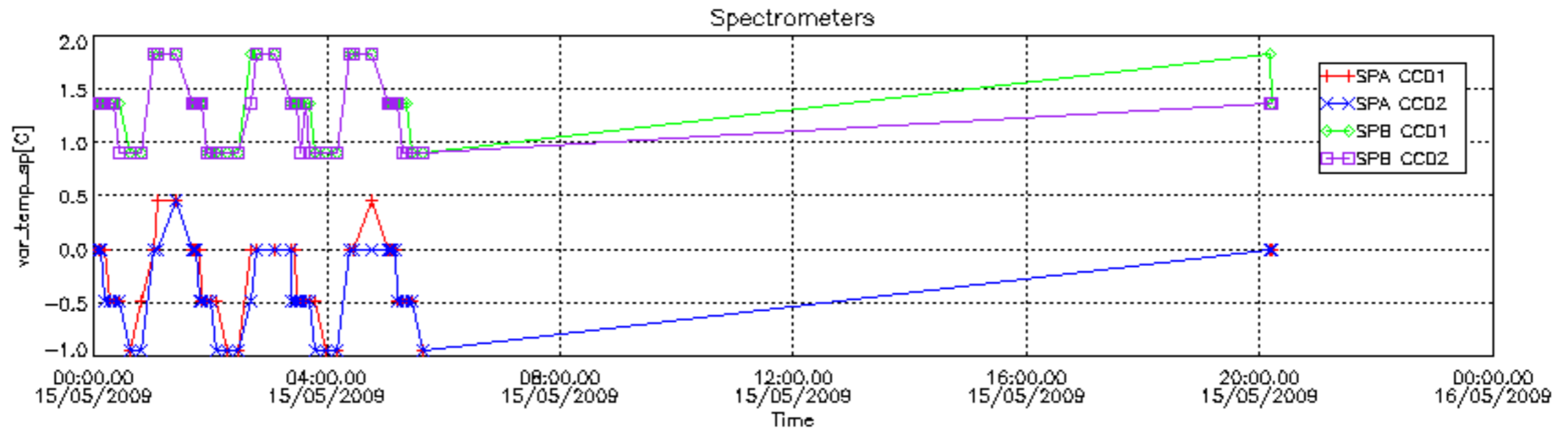


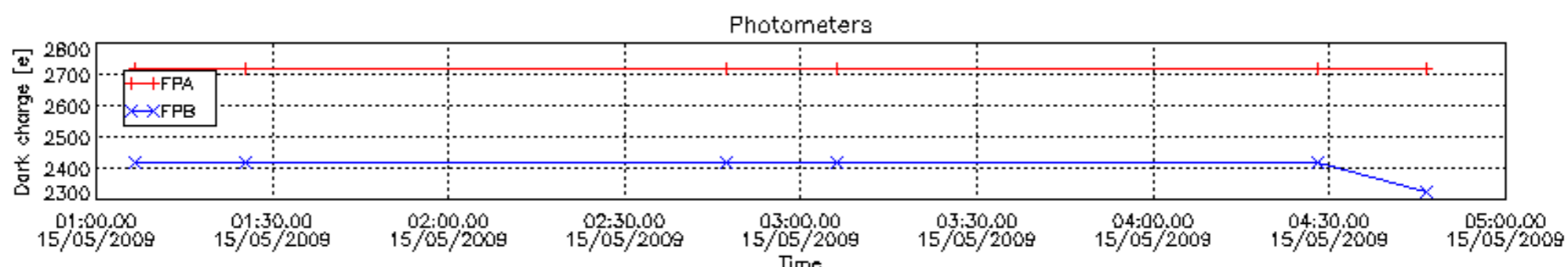
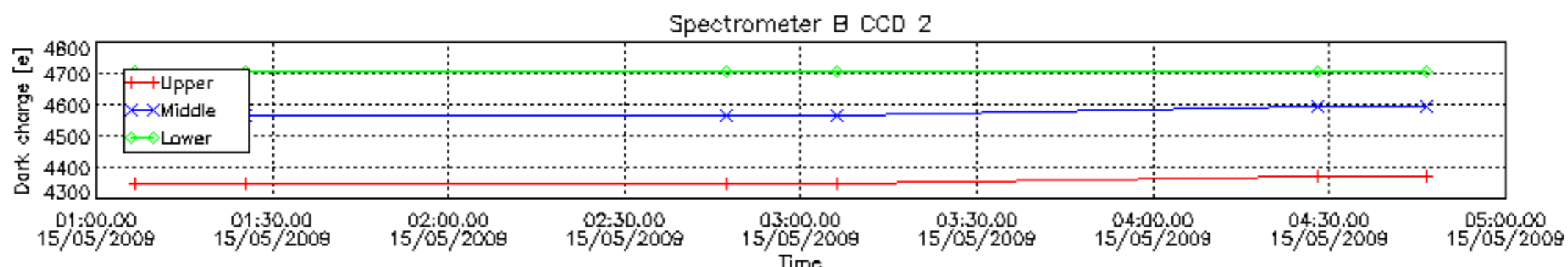
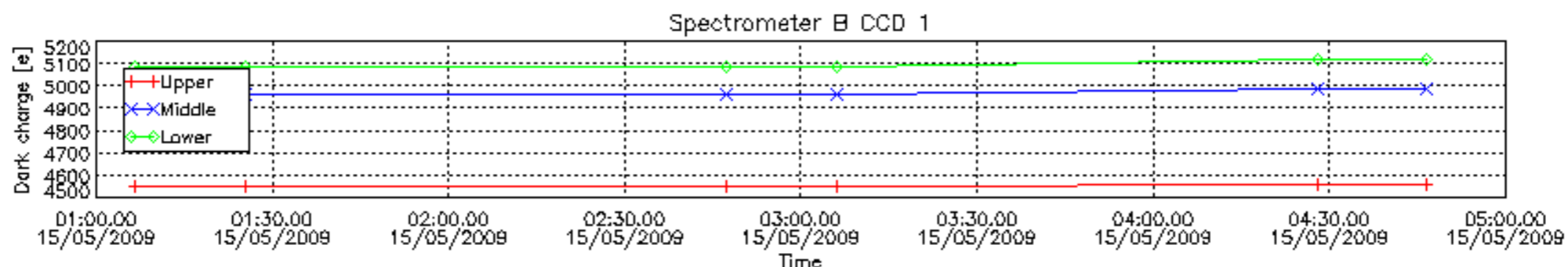
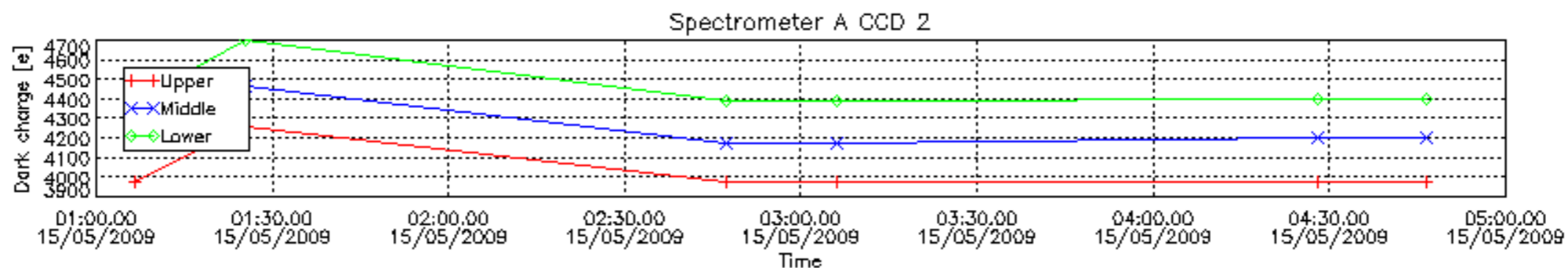
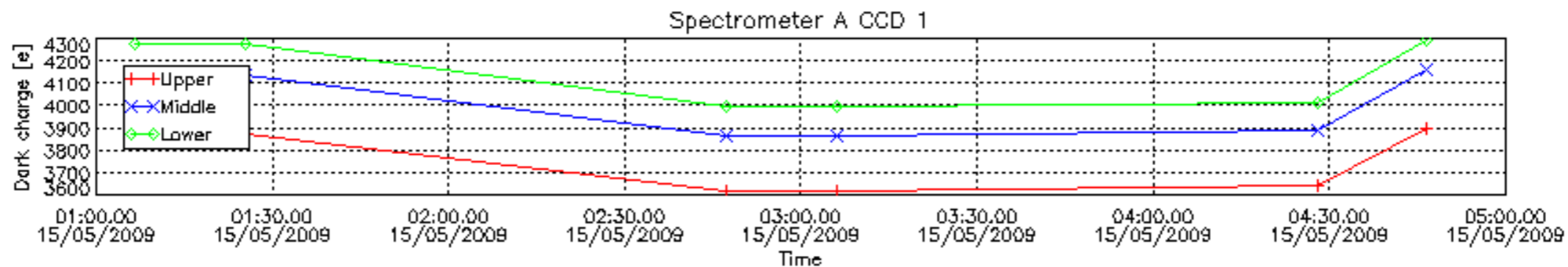
8. Auxiliary Data Files used for the production reported in section 2.4

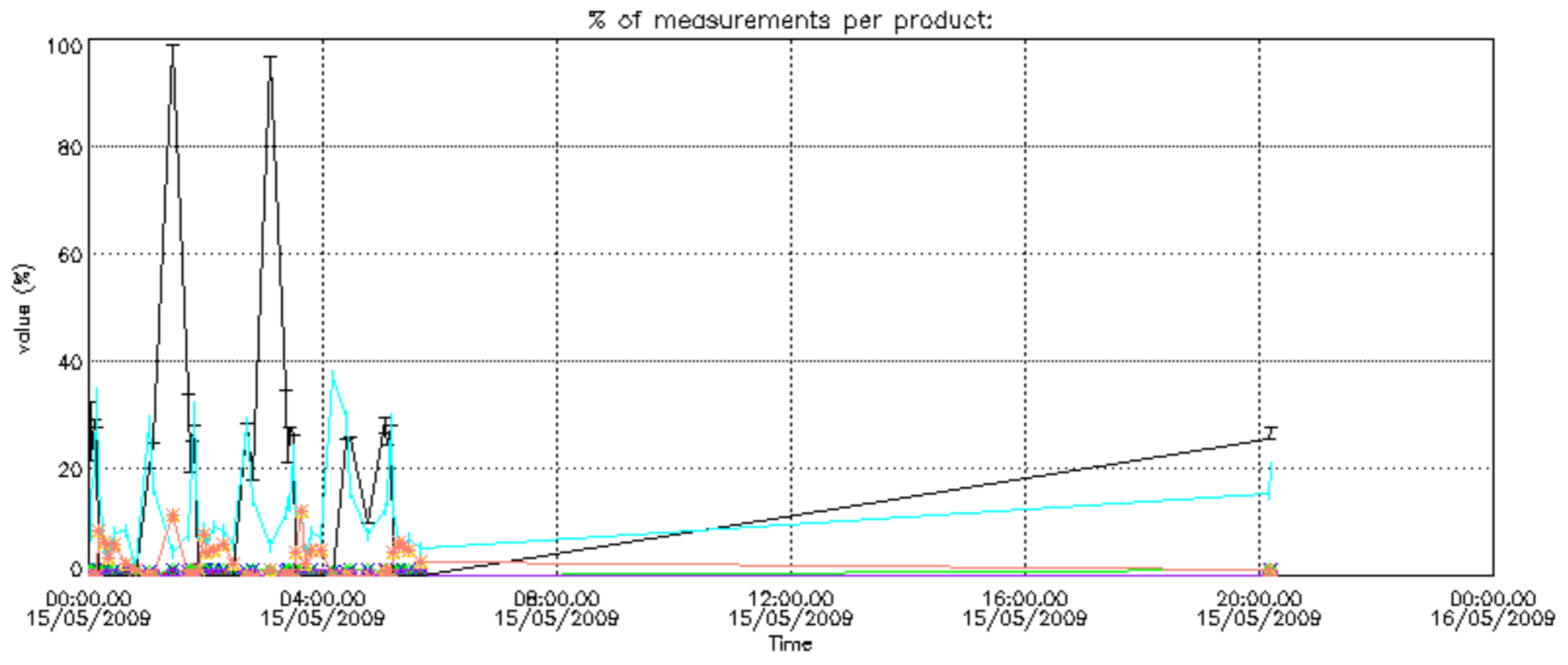
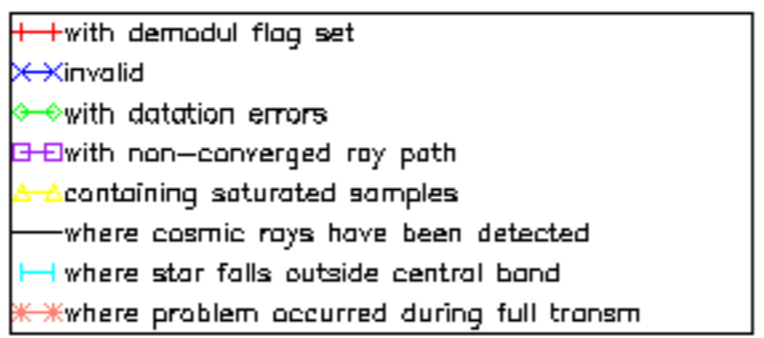
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090511_131319_20090509_000000_20100101_000000	1	15-MAY-2009 00:01:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-MAY-2009 00:01:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-MAY-2009 00:01:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-MAY-2009 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20090514_064113_20090514_210000_20090515_090000	1	15-MAY-2009 00:01:10
ECMWF_FILE	AUX_ECF_AXNECM20090514_182114_20090515_030000_20090515_150000	36	15-MAY-2009 04:09:34
ECMWF_FILE	AUX_ECF_AXNECM20090515_064112_20090515_150000_20090516_030000	49	15-MAY-2009 20:10:03
OPTIONAL_ECMWF_FILE	MISSING	1	15-MAY-2009 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_214814_000057382079_00043_37672_7945.N1	1	15-MAY-2009 00:01:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090514_232911_000057382079_00044_37673_7946.N1	13	15-MAY-2009 01:25:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090515_011008_000044632079_00045_37674_7947.N1	24	15-MAY-2009 02:42:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090515_040528_000057382079_00047_37676_7949.N1	36	15-MAY-2009 04:09:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090515_200708_000038252079_00057_37686_7950.N1	49	15-MAY-2009 20:10:03

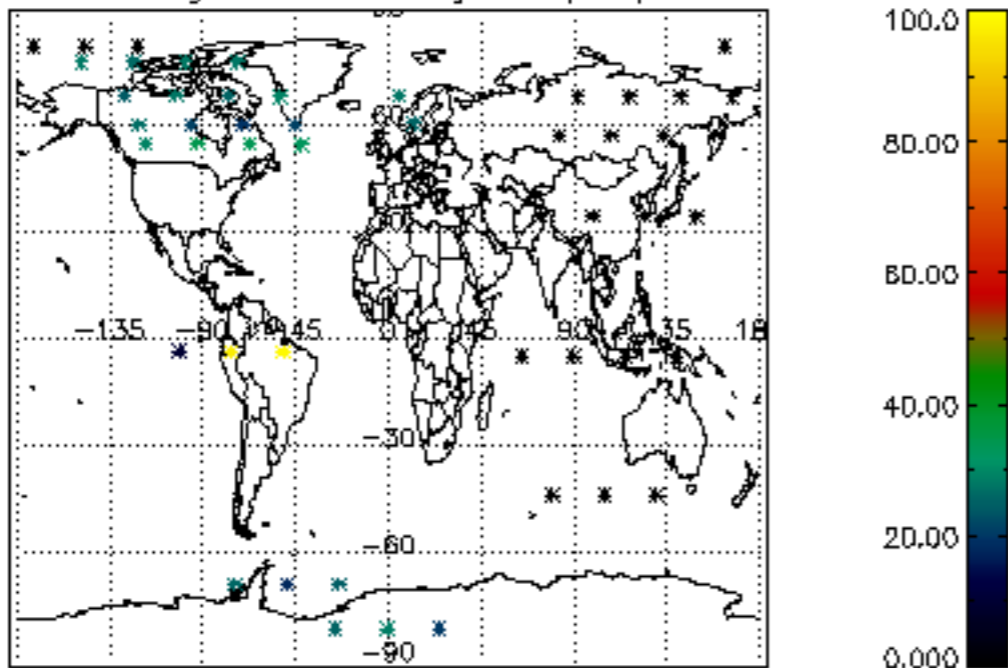




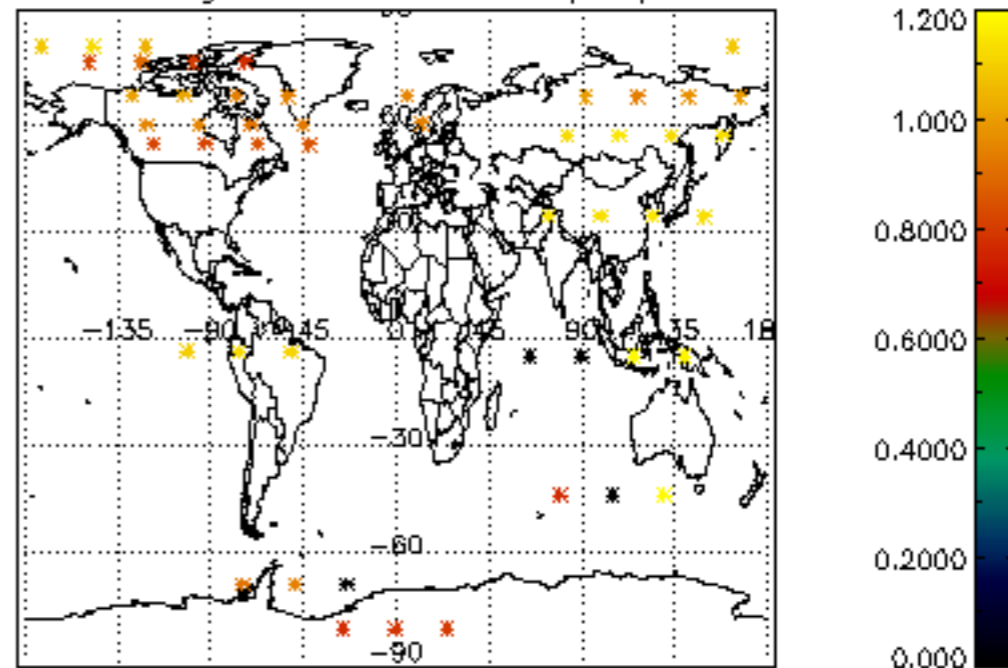




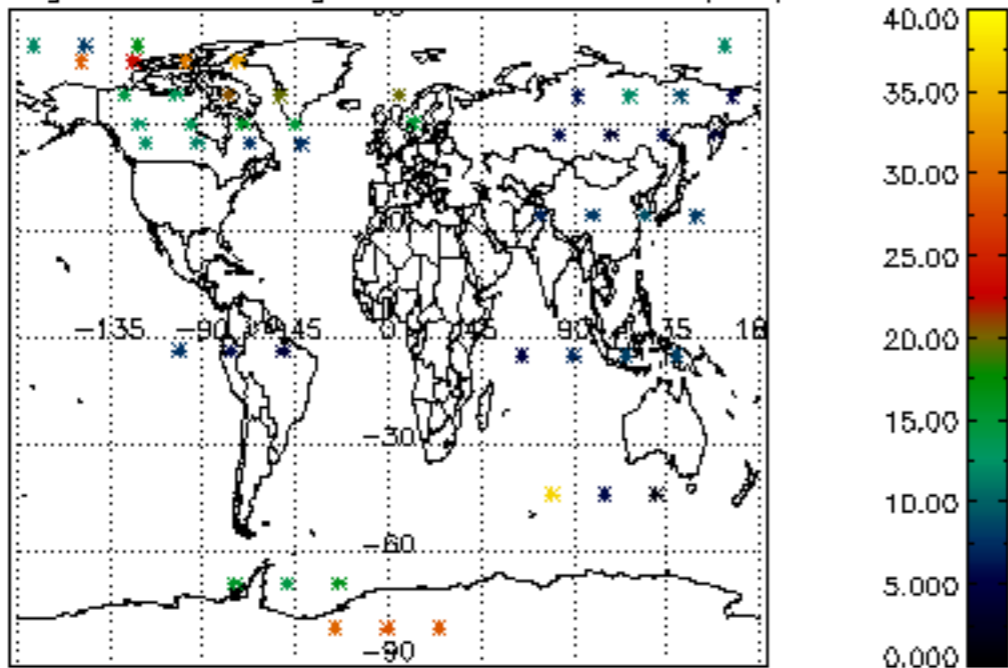
Percentage of cosmic ray hits per profile



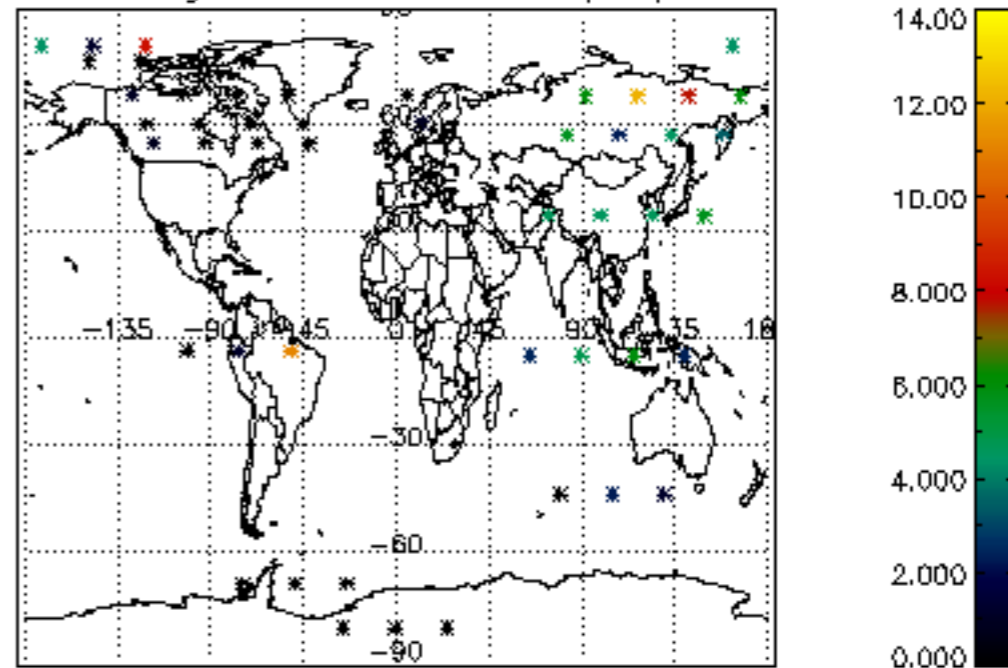
Percentage of datation errors per profile



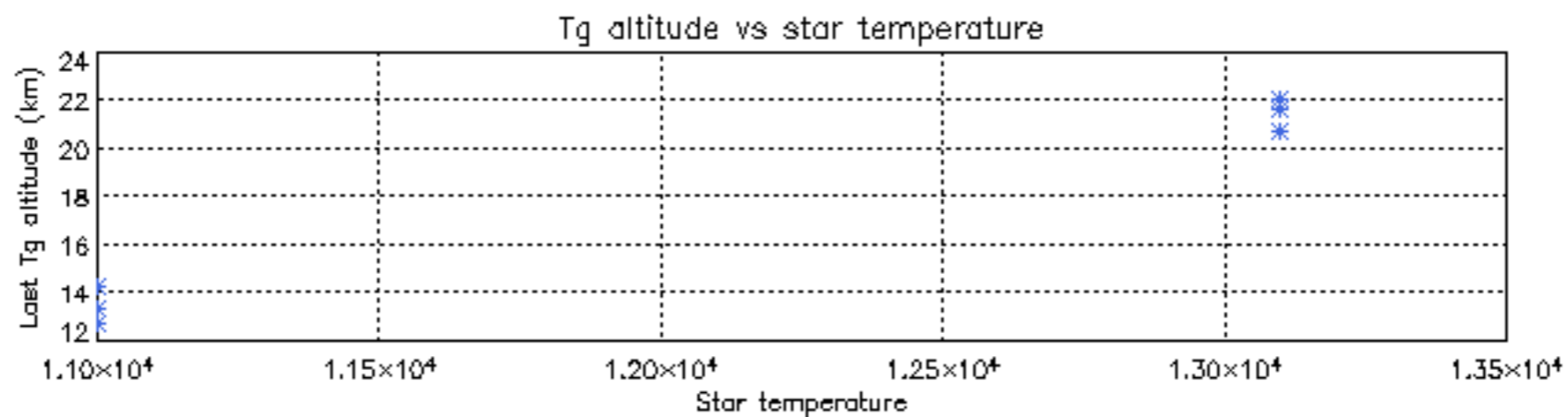
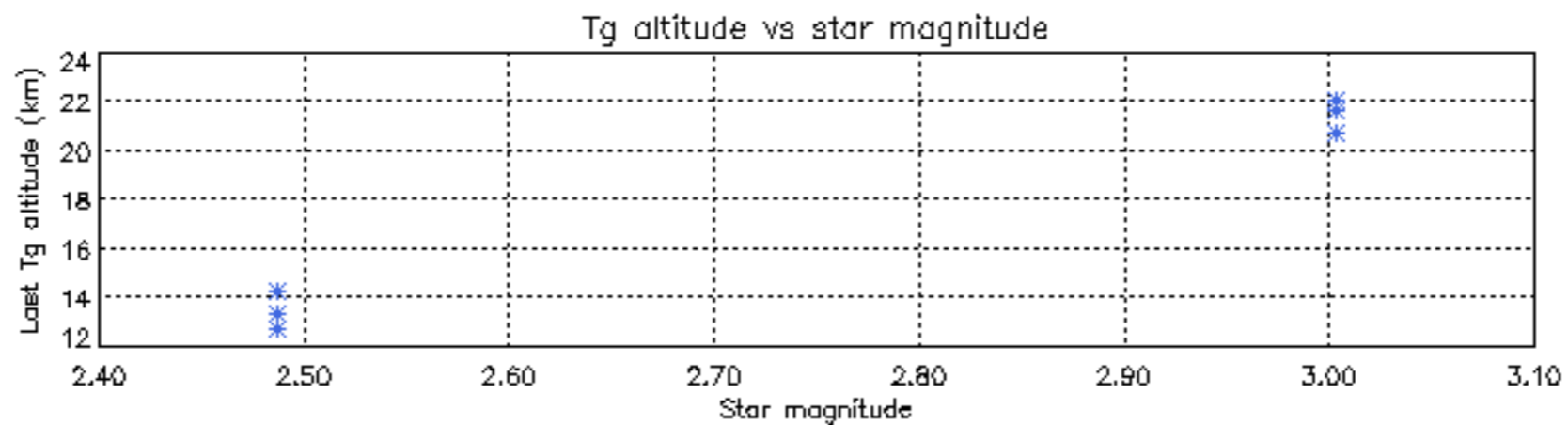
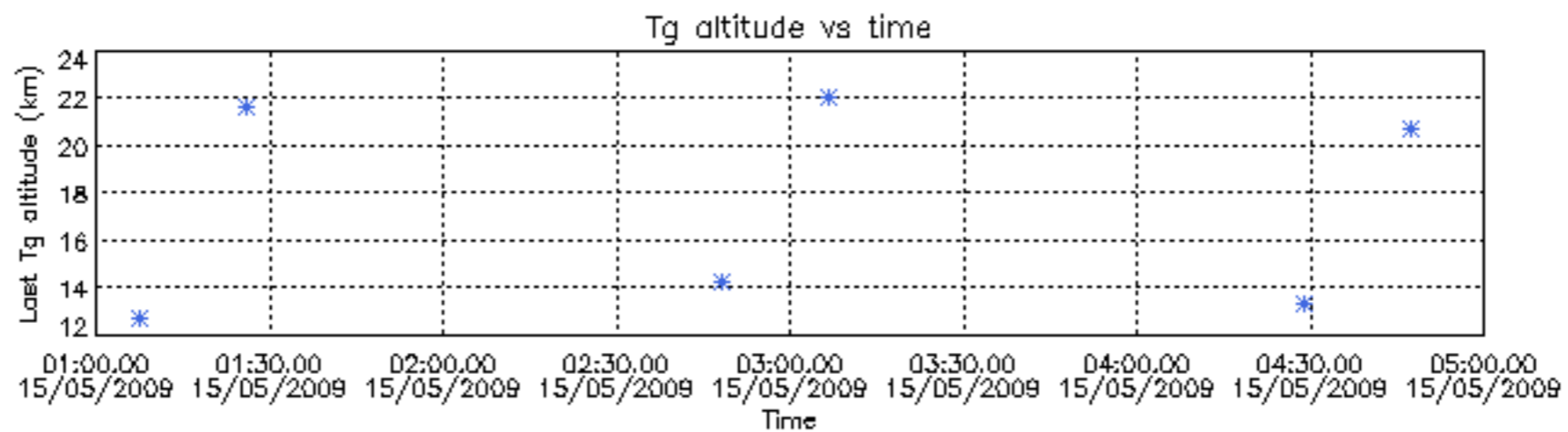
Percentage of star falling outside central band per profile



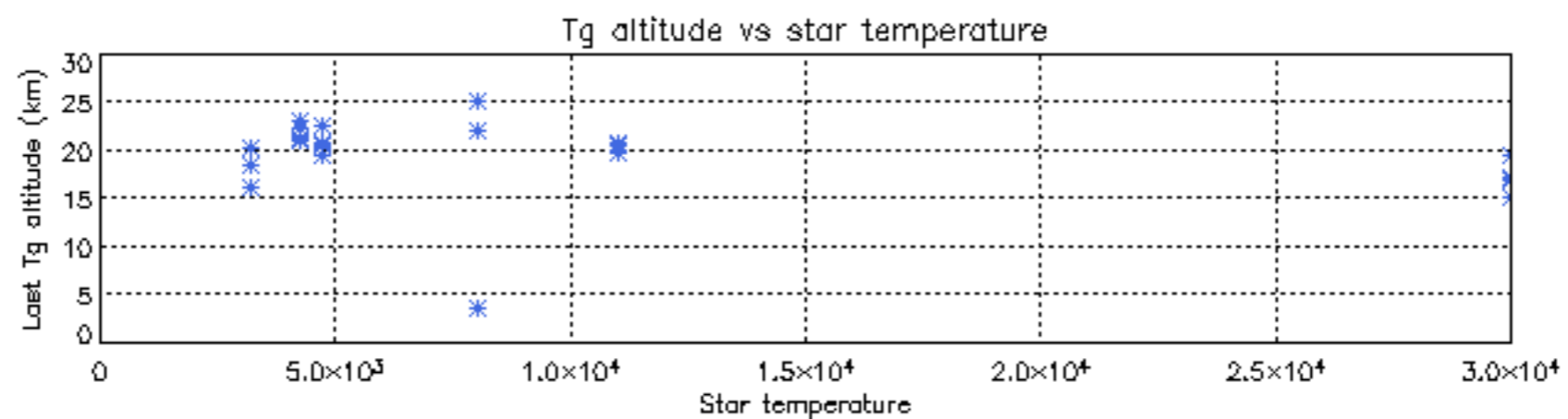
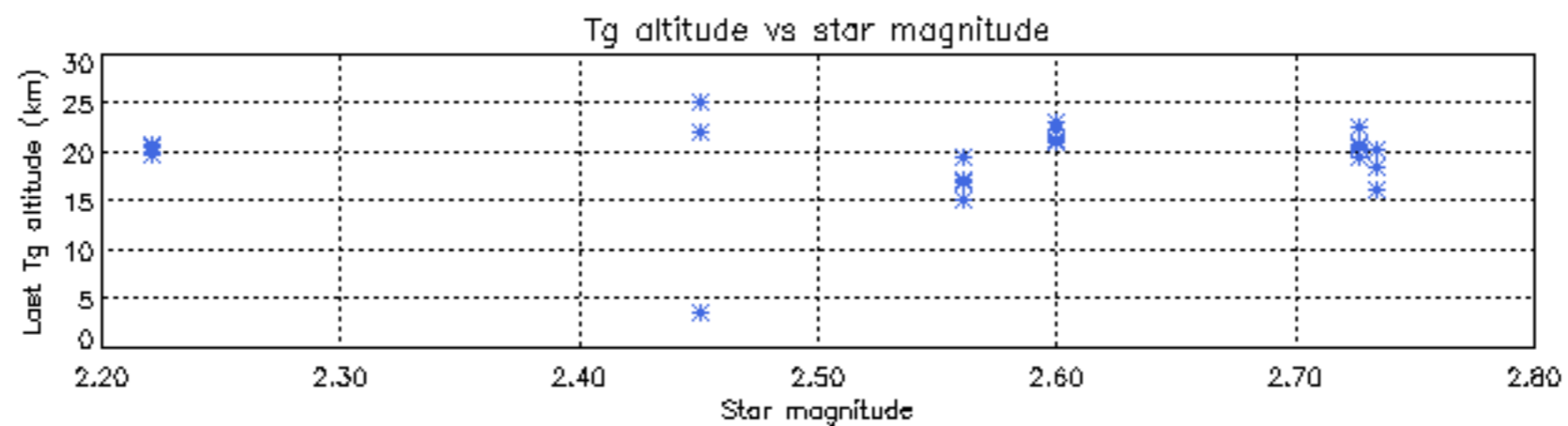
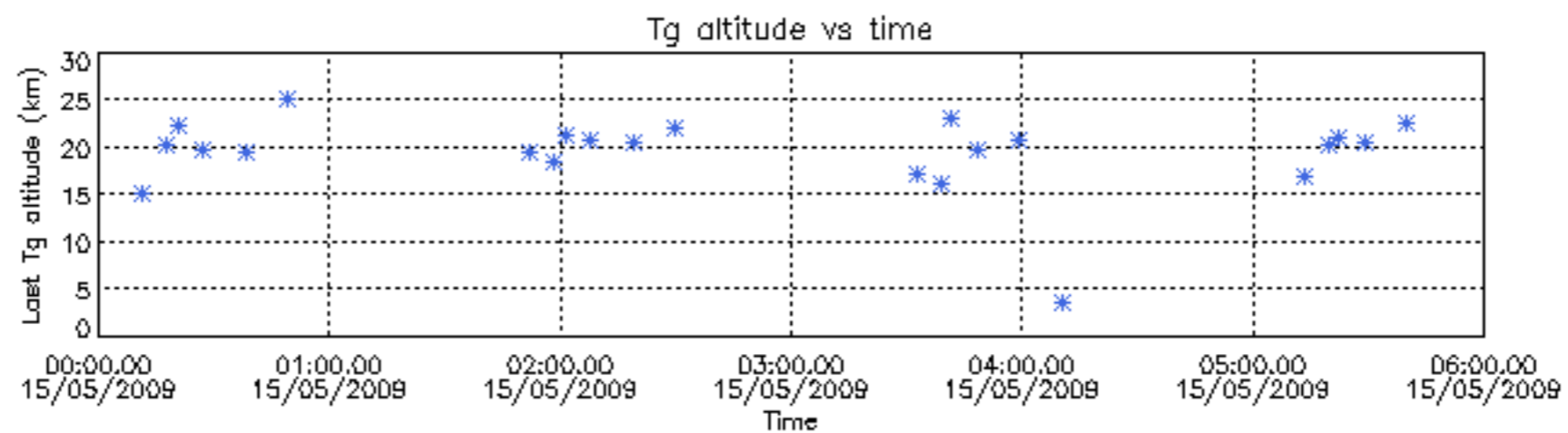
Percentage of saturation errors per profile

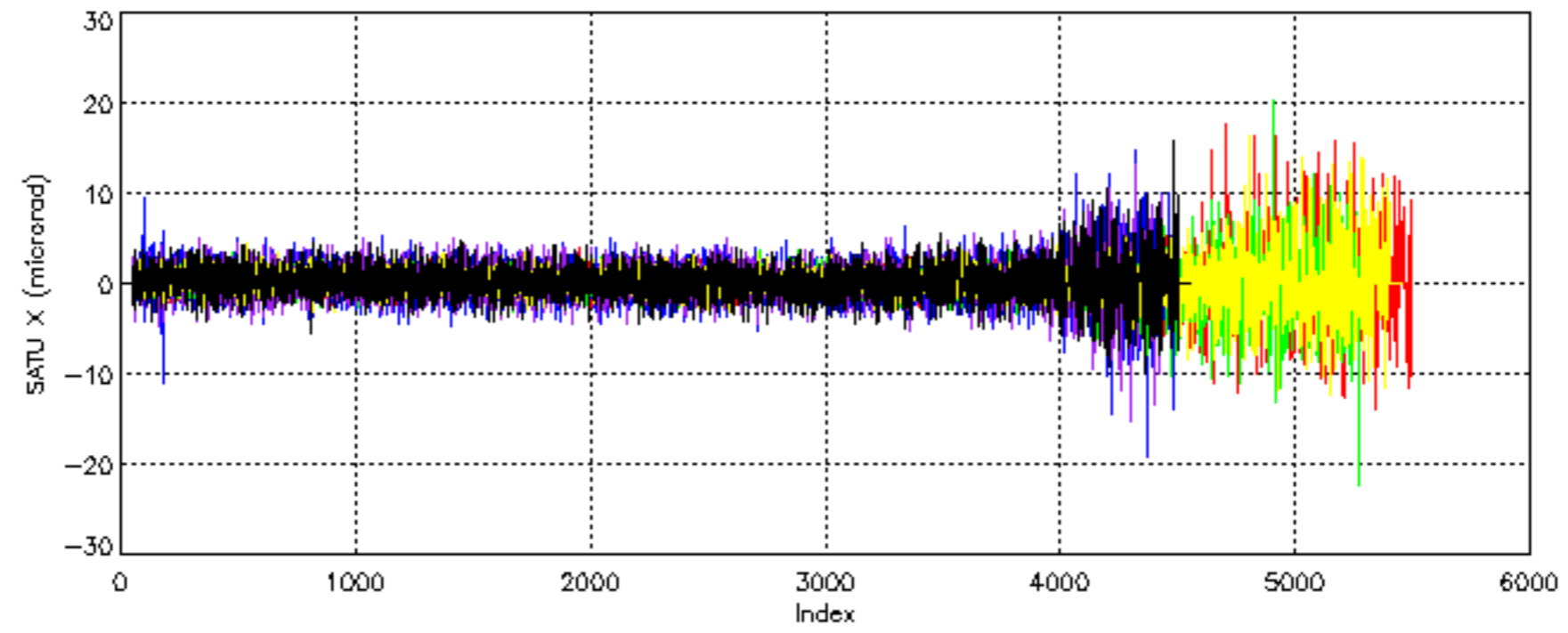


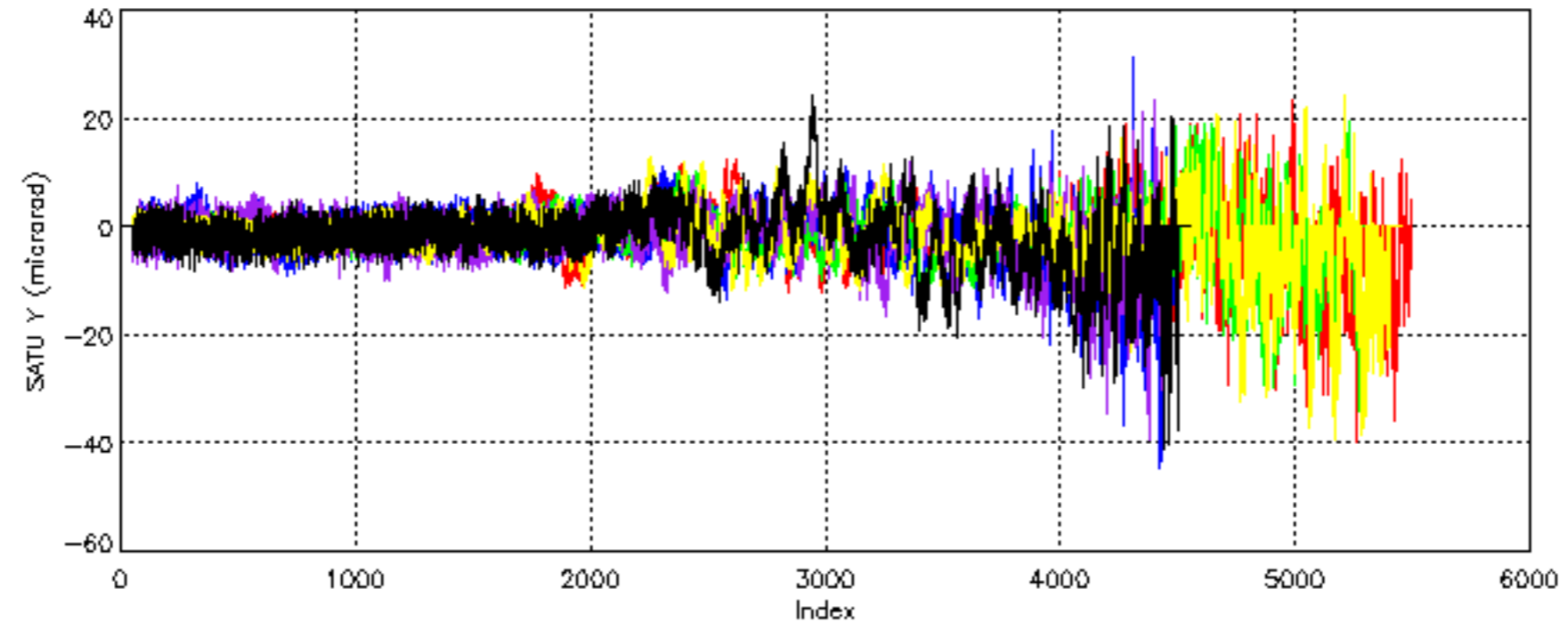
Tangent altitude at which the star is lost

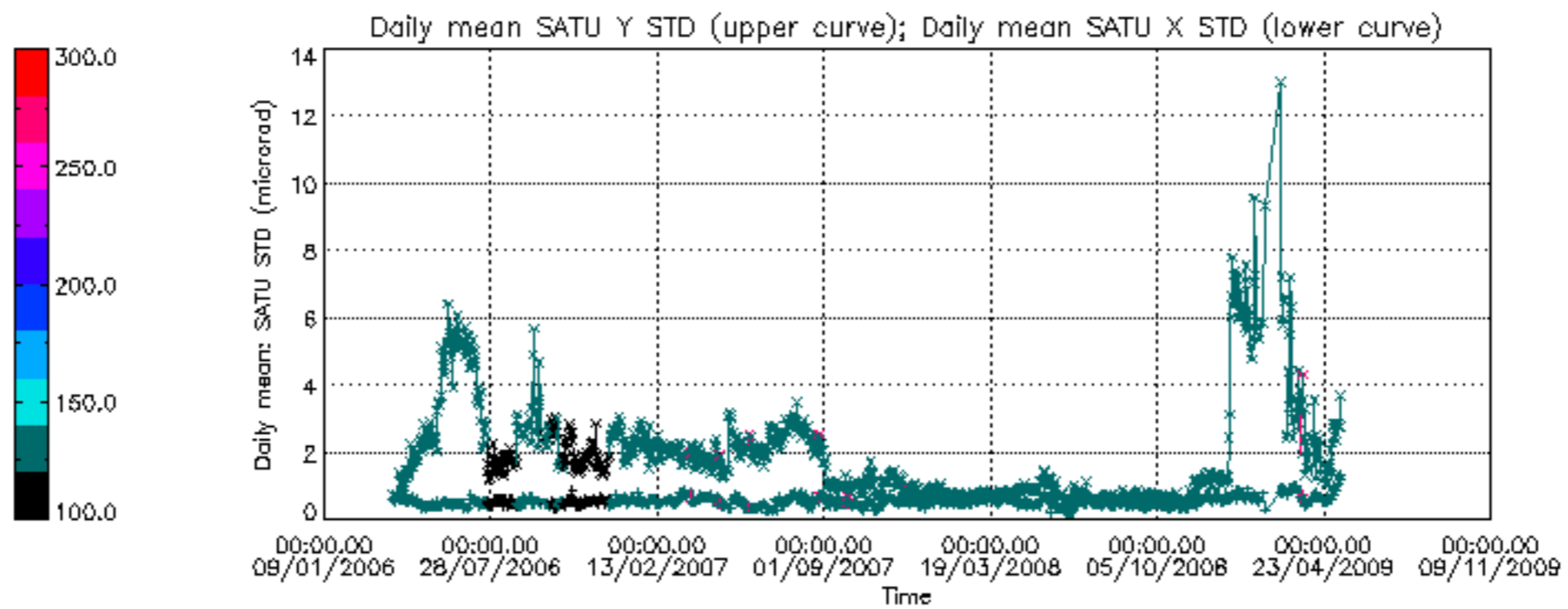


Tangent altitude at which the star is lost









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 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474
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 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474
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 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475
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4; 1726.6; 04-MAY-2009 19:27:09; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37528
5; 2429.7; 04-MAY-2009 19:38:52; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37528
6; 2532.6; 04-MAY-2009 19:40:35; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;37528
7; 2613.2; 04-MAY-2009 19:41:56; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37528
8; 3176.7; 04-MAY-2009 19:51:19; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37528
9; 3811.1; 04-MAY-2009 20:01:54; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;37528
10; 4546.9; 04-MAY-2009 20:14:10; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37528
11; 5226.5; 04-MAY-2009 20:25:29; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37528
12; 5626.8; 04-MAY-2009 20:32:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37528
13; 6831.8; 04-MAY-2009 20:52:15; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37528
14; 6940.2; 04-MAY-2009 20:54:03; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37528
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2; -405.1; 05-MAY-2009 01:34:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37531
3; 797.9; 05-MAY-2009 01:54:04; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37532
4; 906.7; 05-MAY-2009 01:55:53; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37532
5; 1080.2; 05-MAY-2009 01:58:47; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37532
6; 1293.3; 05-MAY-2009 02:02:20; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37532
7; 1417.7; 05-MAY-2009 02:04:24; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37532
8; 1726.0; 05-MAY-2009 02:09:32; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37532
9; 2427.8; 05-MAY-2009 02:21:14; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;37532
10; 2529.2; 05-MAY-2009 02:22:55; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37532
11; 2611.5; 05-MAY-2009 02:24:18; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37532
12; 3174.5; 05-MAY-2009 02:33:41; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37532
13; 3810.0; 05-MAY-2009 02:44:16; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;37532
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2; -805.5; 05-MAY-2009 03:07:57; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37532
3; -403.8; 05-MAY-2009 03:14:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37532
4; 798.7; 05-MAY-2009 03:34:41; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37533
5; 907.5; 05-MAY-2009 03:36:30; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37533
6; 1081.0; 05-MAY-2009 03:39:23; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37533
7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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2; -1488.0; 05-MAY-2009 04:37:10; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37533
3; -804.6; 05-MAY-2009 04:48:34; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37533
4; -402.5; 05-MAY-2009 04:55:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37533

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5; 799.7; 05-MAY-2009 05:15:18; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;37534
6; 909.0; 05-MAY-2009 05:17:07; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37534
7; 1081.6; 05-MAY-2009 05:20:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37534
8; 1294.2; 05-MAY-2009 05:23:32; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37534
9; 1417.7; 05-MAY-2009 05:25:36; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37534
10; 1725.5; 05-MAY-2009 05:30:44; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37534
11; 2427.5; 05-MAY-2009 05:42:26; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37534
12; 2527.7; 05-MAY-2009 05:44:06; Bright; 50.0; 67; 5Alp CrB ; 2.22; 11000;occ; 100; 0;37534
13; 2611.0; 05-MAY-2009 05:45:29; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37534
14; 3173.5; 05-MAY-2009 05:54:52; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37534

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2; 1087.2; 05-MAY-2009 20:25:29; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;37543
3; 1298.3; 05-MAY-2009 20:29:00; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37543
4; 1420.4; 05-MAY-2009 20:31:02; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37543
5; 1726.0; 05-MAY-2009 20:36:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37543
6; 2423.5; 05-MAY-2009 20:47:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37543
7; 2607.5; 05-MAY-2009 20:50:49; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37543
8; 3168.4; 05-MAY-2009 21:00:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37543
9; 3805.9; 05-MAY-2009 21:10:48; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37543
10; 4549.7; 05-MAY-2009 21:23:11; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37543
11; 4798.4; 05-MAY-2009 21:27:20; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37543
12; 5241.3; 05-MAY-2009 21:34:43; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;37543

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2; -388.9; 05-MAY-2009 21:41:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37543
3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544
4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544
5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544
6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544
7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544
8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544
9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544
10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544
11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544
12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544
13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544
14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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2; 808.3; 05-MAY-2009 23:42:02; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37545
3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545
4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545
5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545
6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545
7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545
8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545
9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545
10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545
11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545
12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545
13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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2; -1487.7; 05-MAY-2009 06:17:47; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37534
3; -803.7; 05-MAY-2009 06:29:11; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37534
4; -401.1; 05-MAY-2009 06:35:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37534
5; 800.6; 05-MAY-2009 06:55:55; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37535
6; 909.4; 05-MAY-2009 06:57:44; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37535
7; 1082.3; 05-MAY-2009 07:00:37; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37535
8; 1294.7; 05-MAY-2009 07:04:09; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37535
9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
10; 1726.1; 05-MAY-2009 07:11:20; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;37535

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2; 2427.0; 05-MAY-2009 07:23:01; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;37535
3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535
4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
13; 7331.1; 05-MAY-2009 08:44:45; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37535
14; 7454.7; 05-MAY-2009 08:46:49; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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2; 2610.2; 05-MAY-2009 09:06:40; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;37536
3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
12; 7331.7; 05-MAY-2009 10:25:22; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37536
13; 7454.9; 05-MAY-2009 10:27:25; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37536
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4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
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7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
9; 5638.8; 05-MAY-2009 11:37:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37537
10; 6839.4; 05-MAY-2009 11:57:45; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37537
11; 6948.2; 05-MAY-2009 11:59:34; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37537
12; 7120.2; 05-MAY-2009 12:02:26; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37537
13; 7332.1; 05-MAY-2009 12:05:58; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37537
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4; 3171.1; 05-MAY-2009 12:37:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37538
5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
6; 4548.9; 05-MAY-2009 13:00:11; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37538
7; 4796.6; 05-MAY-2009 13:04:19; Dark ; 33.5; 90; 54Alp Peg ; 2.49; 11000;occ; 67; 0;37538
8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
10; 6840.0; 05-MAY-2009 13:38:22; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;37538
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5; 4549.2; 05-MAY-2009 14:40:47; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37539
6; 4797.2; 05-MAY-2009 14:44:55; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37539
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3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
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3; 919.2; 06-MAY-2009 01:24:29; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37546
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7; 4556.6; 08-MAY-2009 08:04:16; Dark ; 34.5; 93; 53Bet Peg ; 2.52; 3100;occ; 69; 0;37578
8; 4812.1; 08-MAY-2009 08:08:31; Dark ; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;37578
9; 5278.0; 08-MAY-2009 08:16:17; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;37578
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6; 3792.4; 08-MAY-2009 12:53:19; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37581
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3; 3146.4; 08-MAY-2009 14:23:09; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37582
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7; 5282.7; 08-MAY-2009 14:58:46; Dark ; 51.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 102; 0;37582
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7; 1026.5; 16-MAY-2009 04:33:06; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;37691
8; 1166.5; 16-MAY-2009 04:35:26; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;37691
9; 1351.6; 16-MAY-2009 04:38:31; Dark ; 60.5; 16; 21Alp Sco ; 1.02; 3000;occ; 121; 0;37691
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8; 1854.0; 16-MAY-2009 21:32:53; Bright; 48.5; 120; 1Del Oph ; 2.73; 3200;occ; 97; 0;37701
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6; 1705.1; 17-MAY-2009 00:51:36; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;37703
7; 1853.8; 17-MAY-2009 00:54:04; Bright; 48.5; 120; 1Del Oph ; 2.73; 3200;occ; 97; 0;37703
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4; 3001.2; 29-MAY-2009 11:39:48; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;37881

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3; 2336.2; 29-MAY-2009 14:49:55; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37883
4; 2546.7; 29-MAY-2009 14:53:25; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;37883
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9; 5253.5; 29-MAY-2009 15:38:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37883
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12; 7121.5; 29-MAY-2009 16:09:40; Dark ; 37.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 75; 0;37883
13; 7225.4; 29-MAY-2009 16:11:24; Dark ; 39.0; 116; 19Del Sgr ; 2.70; 4100;occ; 78; 0;37883
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3; 2335.7; 29-MAY-2009 16:30:30; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;37884
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5; 2998.9; 29-MAY-2009 16:41:34; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;37884
6; 3648.0; 29-MAY-2009 16:52:23; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37884
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8; 3647.4; 29-MAY-2009 18:32:58; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;37885
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