

# GOMOS Daily Report 23-MAY-2007

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	25MAY2007 05:43:24
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (23MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24MAY2007 00:00:00)
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)

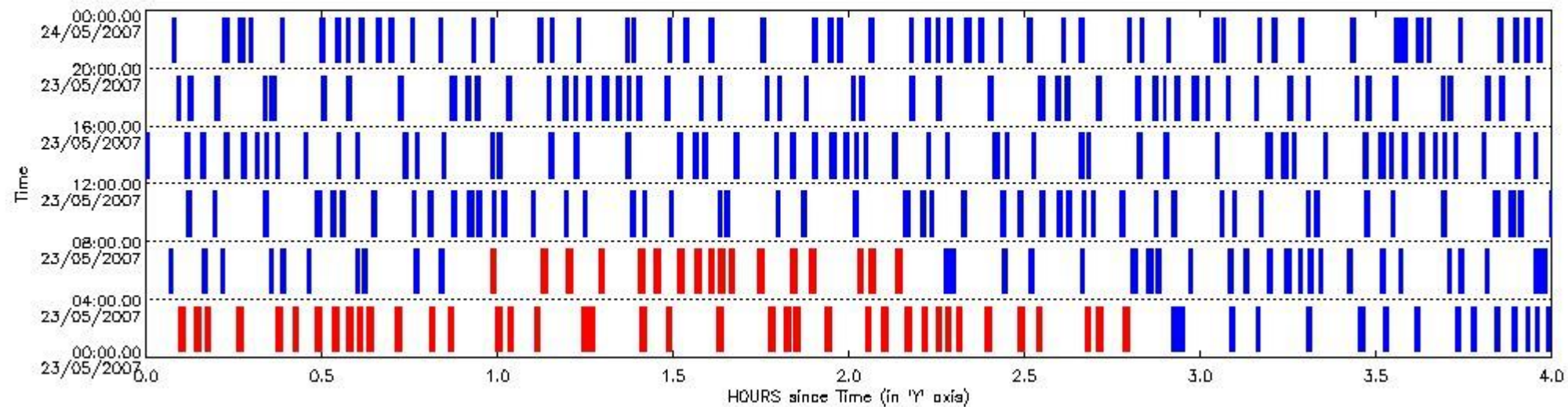
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
23-MAY-2007 00:05:37	DSA1035	0	27324
23-MAY-2007 00:08:18	BetGru	63	27324
23-MAY-2007 00:09:57	AlpGru	31	27325
23-MAY-2007 00:15:22	AlpPav	45	27325
23-MAY-2007 00:22:12	BetAra	141	27325
23-MAY-2007 00:24:57	TheSco	40	27325
23-MAY-2007 00:28:53	26EpsSco	75	27325
23-MAY-2007 00:31:46	21AlpSco	16	27325
23-MAY-2007 00:34:11	8Bet1Sco	97	27325
23-MAY-2007 00:35:57	9Alp2Lib	122	27325
23-MAY-2007 00:37:42	27BetLib	104	27325
23-MAY-2007 00:42:35	24AlpSer	102	27325
23-MAY-2007 00:48:20		83	27325
23-MAY-2007 00:51:29	27GamBoo	180	27325
23-MAY-2007 00:59:40	14EtaDra	119	27325

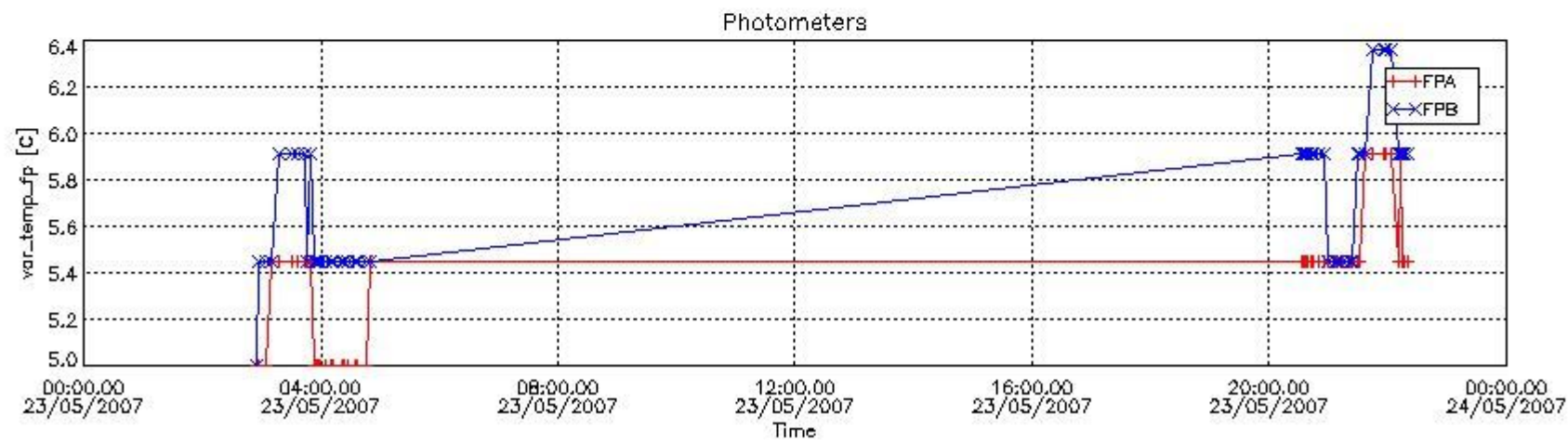
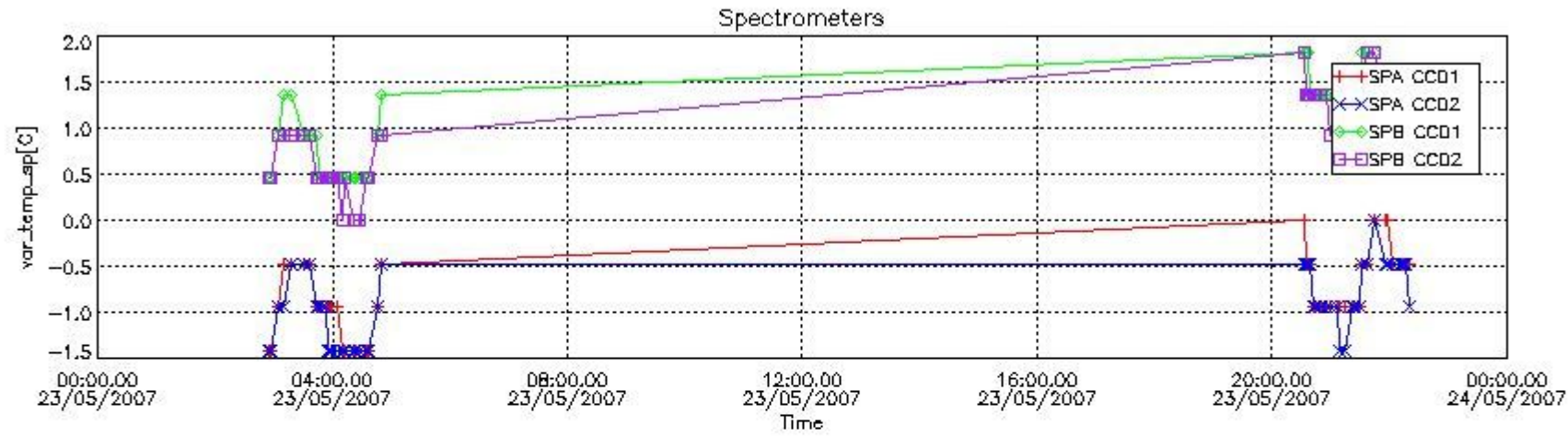
23-MAY-2007 01:01:42	7BetUMi	60	27325
23-MAY-2007 01:06:15	1AlpUMi	49	27325
23-MAY-2007 01:14:26	27GamCas	76	27325
23-MAY-2007 01:15:38	18AlpCas	68	27325
23-MAY-2007 01:24:19	21AlpAnd	58	27325
23-MAY-2007 01:28:44	88GamPeg	140	27325
23-MAY-2007 01:37:32	16BetCet	52	27325
23-MAY-2007 01:46:13	DSA1035	0	27325
23-MAY-2007 01:48:55	BetGru	63	27325
23-MAY-2007 01:50:34	AlpGru	31	27326
23-MAY-2007 01:55:59	AlpPav	45	27326
23-MAY-2007 02:02:49	BetAra	141	27326
23-MAY-2007 02:05:34	TheSco	40	27326
23-MAY-2007 02:09:29	26EpsSco	75	27326
23-MAY-2007 02:12:22	21AlpSco	16	27326
23-MAY-2007 02:14:47	8Bet1Sco	97	27326
23-MAY-2007 02:16:33	9Alp2Lib	122	27326
23-MAY-2007 02:18:18	27BetLib	104	27326
23-MAY-2007 02:23:11	24AlpSer	102	27326
23-MAY-2007 02:28:55		83	27326
23-MAY-2007 02:32:05	27GamBoo	180	27326
23-MAY-2007 02:40:15	14EtaDra	119	27326
23-MAY-2007 02:42:18	7BetUMi	60	27326
23-MAY-2007 02:46:51	1AlpUMi	49	27326
23-MAY-2007 04:58:44	16BetCet	52	27327
23-MAY-2007 05:07:26	DSA1035	0	27327
23-MAY-2007 05:11:48	AlpGru	31	27328
23-MAY-2007 05:17:12	AlpPav	45	27328
23-MAY-2007 05:24:01	BetAra	141	27328
23-MAY-2007 05:26:47	TheSco	40	27328
23-MAY-2007 05:30:42	26EpsSco	75	27328
23-MAY-2007 05:33:35	21AlpSco	16	27328
23-MAY-2007 05:35:59	8Bet1Sco	97	27328
23-MAY-2007 05:37:46	9Alp2Lib	122	27328
23-MAY-2007 05:39:30	27BetLib	104	27328
23-MAY-2007 05:44:23	24AlpSer	102	27328
23-MAY-2007 05:50:07		83	27328
23-MAY-2007 05:53:17	27GamBoo	180	27328
23-MAY-2007 06:01:26	14EtaDra	119	27328
23-MAY-2007 06:03:30	7BetUMi	60	27328
23-MAY-2007 06:08:03	1AlpUMi	49	27328

#### 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_1PNPDE20070523_025509_000000542058_00218_27326_6750.N1	23-MAY-2007 02:55:09	Bright	54.000	76	27Gam Cas	2.3000	30000.	108	27326	No
2	GOM_TRA_1PNPDE20070523_025622_000000552058_00218_27326_6751.N1	23-MAY-2007 02:56:22	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	27326	No
3	GOM_TRA_1PNPDE20070523_030503_000000492058_00218_27326_6752.N1	23-MAY-2007 03:05:03	Twilight	49.000	58	21Alp And	2.0730	11000.	98	27326	No
4	GOM_TRA_1PNPDE20070523_030927_000000462058_00218_27326_6753.N1	23-MAY-2007 03:09:27	Dark	46.000	140	88Gam Peg	2.8340	26000.	92	27326	No
5	GOM_TRA_1PNPDE20070523_031815_000000442058_00218_27326_6754.N1	23-MAY-2007 03:18:15	Dark	43.500	52	16Bet Cet	2.0370	4500.0	87	27326	No
6	GOM_TRA_1PNPDE20070523_033118_000000452058_00219_27327_6755.N1	23-MAY-2007 03:31:18	Dark	45.000	31	Alp Gru	1.7340	15200.	90	27327	No
7	GOM_TRA_1PNPDE20070523_033643_000000412058_00219_27327_6756.N1	23-MAY-2007 03:36:43	Dark	40.500	45	Alp Pav	1.9400	26000.	81	27327	No
8	GOM_TRA_1PNPDE20070523_034333_000000462058_00219_27327_6757.N1	23-MAY-2007 03:43:33	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	27327	No
9	GOM_TRA_1PNPDE20070523_034618_000000502058_00219_27327_6758.N1	23-MAY-2007 03:46:18	Straylight	49.500	40	The Sco	1.8590	7100.0	99	27327	No
10	GOM_TRA_1PNPDE20070523_035013_000000462058_00219_27327_6759.N1	23-MAY-2007 03:50:13	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	27327	No
11	GOM_TRA_1PNPDE20070523_035306_000000542058_00219_27327_6760.N1	23-MAY-2007 03:53:06	Bright	54.000	16	21Alp Sco	1.0200	3000.0	108	27327	No
12	GOM_TRA_1PNPDE20070523_035531_000000422058_00219_27327_6761.N1	23-MAY-2007 03:55:31	Bright	41.500	97	8Bet1Sco	2.5610	30000.	83	27327	No
13	GOM_TRA_1PNPDE20070523_035717_000000372058_00219_27327_6762.N1	23-MAY-2007 03:57:17	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	27327	No

14	GOM_TRA_1PNPDE20070523_035901_000000372058_00219_27327_6763.N1	23-MAY-2007 03:59:01	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	27327	No
15	GOM_TRA_1PNPDE20070523_040354_000000402058_00219_27327_6764.N1	23-MAY-2007 04:03:54	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	27327	No
16	GOM_TRA_1PNPDE20070523_040939_000000362058_00219_27327_6765.N1	23-MAY-2007 04:09:39	Bright	36.000	83		2.3780	11000.	72	27327	No
17	GOM_TRA_1PNPDE20070523_041249_000000352058_00219_27327_6766.N1	23-MAY-2007 04:12:49	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	27327	No
18	GOM_TRA_1PNPDE20070523_042058_000000392058_00219_27327_6767.N1	23-MAY-2007 04:20:58	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	27327	No
19	GOM_TRA_1PNPDE20070523_042301_000000382058_00219_27327_6768.N1	23-MAY-2007 04:23:01	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	27327	No
20	GOM_TRA_1PNPDE20070523_042734_000000342058_00219_27327_6769.N1	23-MAY-2007 04:27:34	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27327	No
21	GOM_TRA_1PNPDE20070523_043545_000000362058_00219_27327_6907.N1	23-MAY-2007 04:35:45	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	27327	No
22	GOM_TRA_1PNPDE20070523_043658_000000362058_00219_27327_6908.N1	23-MAY-2007 04:36:58	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	27327	No
23	GOM_TRA_1PNPDE20070523_044539_000000492058_00219_27327_6909.N1	23-MAY-2007 04:45:39	Tw_i_and_stray	48.500	58	21Alp And	2.0730	11000.	97	27327	No
24	GOM_TRA_1PNPDE20070523_045004_000000452058_00219_27327_6910.N1	23-MAY-2007 04:50:04	Dark	45.000	140	88Gam Peg	2.8340	26000.	90	27327	No
25	GOM_TRA_1PNPDE20070523_203223_000000512058_00229_27337_7385.N1	23-MAY-2007 20:32:23	Straylight	50.500	40	The Sco	1.8590	7100.0	101	27337	Yes
26	GOM_TRA_1PNPDE20070523_203415_000000302058_00229_27337_7386.N1	23-MAY-2007 20:34:15	Straylight	30.000	115	34Ups Sco	2.6960	26000.	60	27337	No
27	GOM_TRA_1PNPDE20070523_203616_000000492058_00229_27337_7387.N1	23-MAY-2007 20:36:16	Tw_i_and_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	27337	No
28	GOM_TRA_1PNPDE20070523_203908_000000602058_00229_27337_7388.N1	23-MAY-2007 20:39:08	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	27337	No
29	GOM_TRA_1PNPDE20070523_204132_000000402058_00229_27337_7389.N1	23-MAY-2007 20:41:32	Bright	39.500	97	8Bet1Sco	2.5610	30000.	79	27337	No
30	GOM_TRA_1PNPDE20070523_204502_000000372058_00229_27337_7390.N1	23-MAY-2007 20:45:02	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	27337	No
31	GOM_TRA_1PNPDE20070523_204952_000000392058_00229_27337_7391.N1	23-MAY-2007 20:49:52	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	27337	No
32	GOM_TRA_1PNPDE20070523_205538_000000352058_00229_27337_7392.N1	23-MAY-2007 20:55:38	Bright	35.000	83		2.3780	11000.	70	27337	No
33	GOM_TRA_1PNPDE20070523_205848_000000362058_00229_27337_7393.N1	23-MAY-2007 20:58:48	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	27337	No
34	GOM_TRA_1PNPDE20070523_210654_000000402058_00229_27337_7394.N1	23-MAY-2007 21:06:54	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	27337	No
35	GOM_TRA_1PNPDE20070523_210900_000000382058_00229_27337_7395.N1	23-MAY-2007 21:09:00	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	27337	No
36	GOM_TRA_1PNPDE20070523_211334_000000352058_00229_27337_7396.N1	23-MAY-2007 21:13:34	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27337	No
37	GOM_TRA_1PNPDE20070523_212144_000000362058_00229_27337_7397.N1	23-MAY-2007 21:21:44	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	27337	No
38	GOM_TRA_1PNPDE20070523_212257_000000372058_00229_27337_7398.N1	23-MAY-2007 21:22:57	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	27337	No
39	GOM_TRA_1PNPDE20070523_212908_000000372058_00229_27337_7399.N1	23-MAY-2007 21:29:08	Bright	37.000	53	43Bet And	2.0480	3300.0	74	27337	No
40	GOM_TRA_1PNPDE20070523_213140_000000492058_00229_27337_7400.N1	23-MAY-2007 21:31:40	Tw_i_and_stray	48.500	58	21Alp And	2.0730	11000.	97	27337	No
41	GOM_TRA_1PNPDE20070523_213607_000000462058_00229_27337_7401.N1	23-MAY-2007 21:36:07	Dark	45.500	140	88Gam Peg	2.8340	26000.	91	27337	No
42	GOM_TRA_1PNPDE20070523_214455_000000492058_00229_27337_7548.N1	23-MAY-2007 21:44:55	Dark	48.500	52	16Bet Cet	2.0370	4500.0	97	27337	No
43	GOM_TRA_1PNPDE20070523_215622_000000592058_00229_27337_7549.N1	23-MAY-2007 21:56:22	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	27337	No
44	GOM_TRA_1PNPDE20070523_215803_000000462058_00230_27338_7550.N1	23-MAY-2007 21:58:03	Dark	46.000	31	Alp Gru	1.7340	15200.	92	27338	No
45	GOM_TRA_1PNPDE20070523_220326_000000412058_00230_27338_7551.N1	23-MAY-2007 22:03:26	Dark	41.000	45	Alp Pav	1.9400	26000.	82	27338	No
46	GOM_TRA_1PNPDE20070523_221013_000000412058_00230_27338_7552.N1	23-MAY-2007 22:10:13	Straylight	41.000	141	Bet Ara	2.8400	4600.0	82	27338	No
47	GOM_TRA_1PNPDE20070523_221259_000000462058_00230_27338_7553.N1	23-MAY-2007 22:12:59	Straylight	45.500	40	The Sco	1.8590	7100.0	91	27338	No
48	GOM_TRA_1PNPDE20070523_221452_000000342058_00230_27338_7554.N1	23-MAY-2007 22:14:52	Straylight	34.000	115	34Ups Sco	2.6960	26000.	68	27338	No
49	GOM_TRA_1PNPDE20070523_221652_000000472058_00230_27338_7555.N1	23-MAY-2007 22:16:52	Tw_i_and_stray	46.500	75	26Eps Sco	2.2910	4250.0	93	27338	No
50	GOM_TRA_1PNPDE20070523_221944_000000592058_00230_27338_7556.N1	23-MAY-2007 22:19:44	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	27338	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).

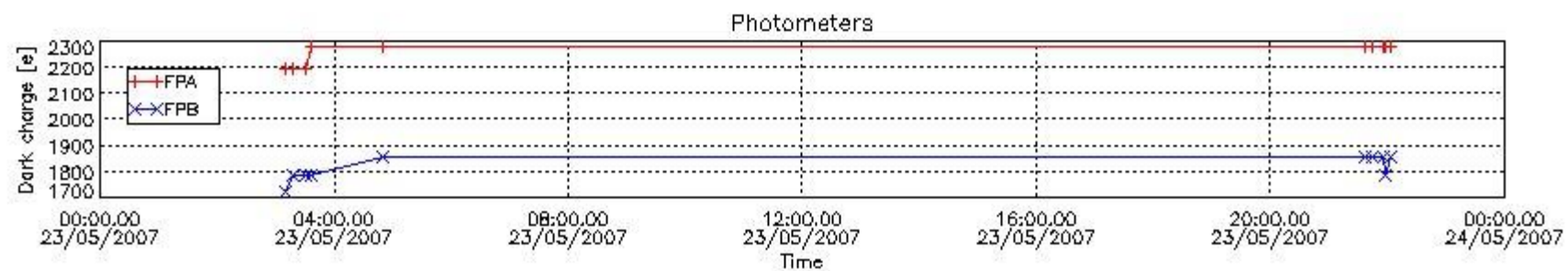
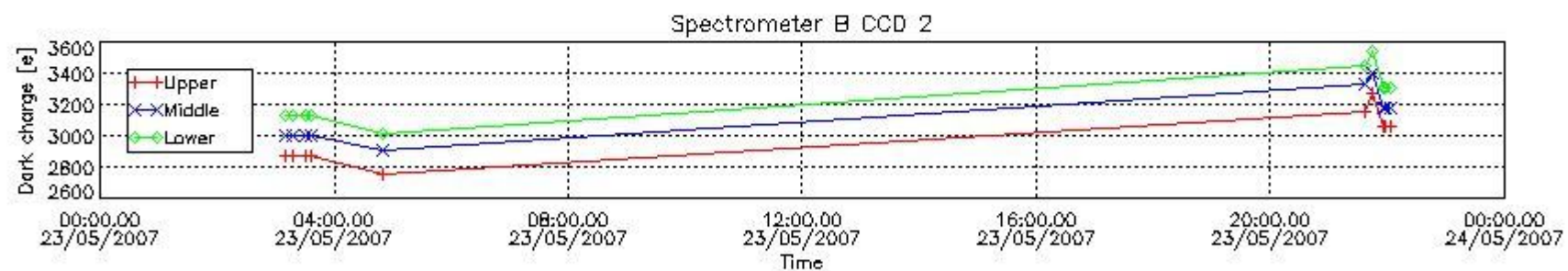
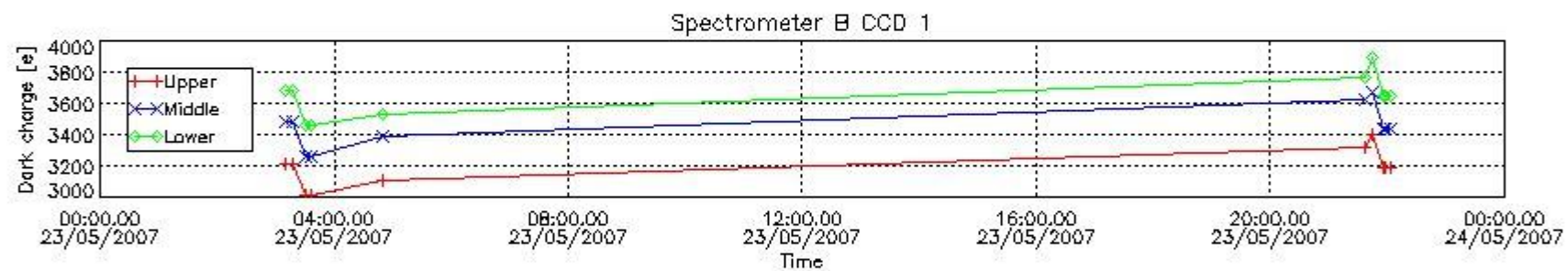
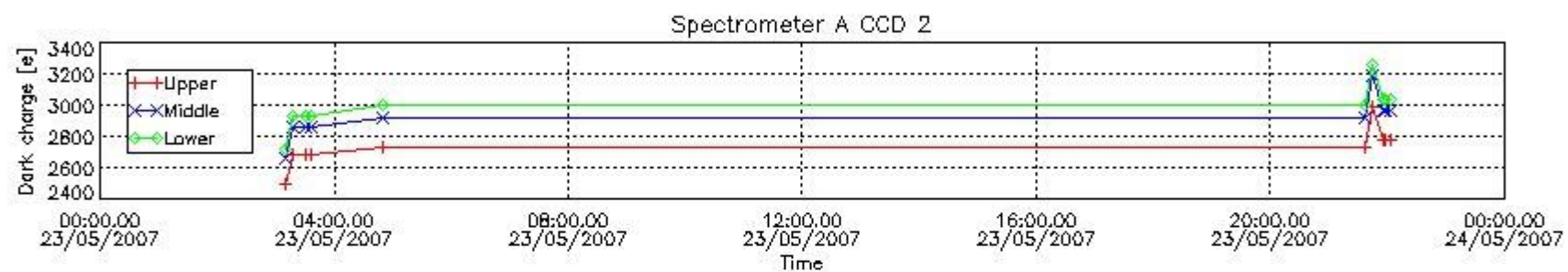
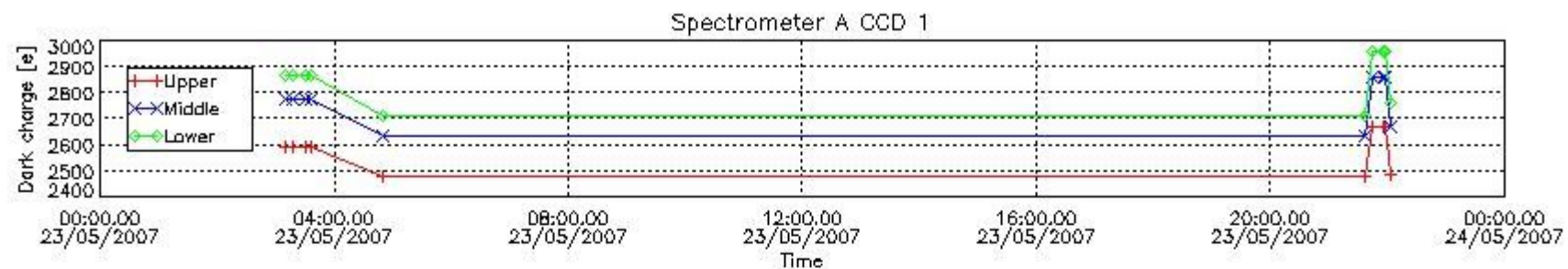
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20070523_043545_000000362058_00219_27327_6907.N1	DC map used
GOM_TRA_1PNPDE20070523_043658_000000362058_00219_27327_6908.N1	DC map used
GOM_TRA_1PNPDE20070523_044539_000000492058_00219_27327_6909.N1	DC map used
GOM_TRA_1PNPDE20070523_045004_000000452058_00219_27327_6910.N1	DC map used
GOM_TRA_1PNPDE20070523_203223_000000512058_00229_27337_7385.N1	DC map with no T dep.
GOM_TRA_1PNPDE20070523_203415_000000302058_00229_27337_7386.N1	DC map used
GOM_TRA_1PNPDE20070523_203616_000000492058_00229_27337_7387.N1	DC map used
GOM_TRA_1PNPDE20070523_203908_000000602058_00229_27337_7388.N1	DC map used
GOM_TRA_1PNPDE20070523_204132_000000402058_00229_27337_7389.N1	DC map used
GOM_TRA_1PNPDE20070523_204502_000000372058_00229_27337_7390.N1	DC map used
GOM_TRA_1PNPDE20070523_204952_000000392058_00229_27337_7391.N1	DC map used
GOM_TRA_1PNPDE20070523_205538_000000352058_00229_27337_7392.N1	DC map used
GOM_TRA_1PNPDE20070523_205848_000000362058_00229_27337_7393.N1	DC map used
GOM_TRA_1PNPDE20070523_210654_000000402058_00229_27337_7394.N1	DC map used

GOM_TRA_1PNPDE20070523_210900_000000382058_00229_27337_7395.N1	DC map used
GOM_TRA_1PNPDE20070523_211334_000000352058_00229_27337_7396.N1	DC map used
GOM_TRA_1PNPDE20070523_212144_000000362058_00229_27337_7397.N1	DC map used
GOM_TRA_1PNPDE20070523_212257_000000372058_00229_27337_7398.N1	DC map used
GOM_TRA_1PNPDE20070523_212908_000000372058_00229_27337_7399.N1	DC map used
GOM_TRA_1PNPDE20070523_213140_000000492058_00229_27337_7400.N1	DC map used
GOM_TRA_1PNPDE20070523_213607_000000462058_00229_27337_7401.N1	DC map used

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



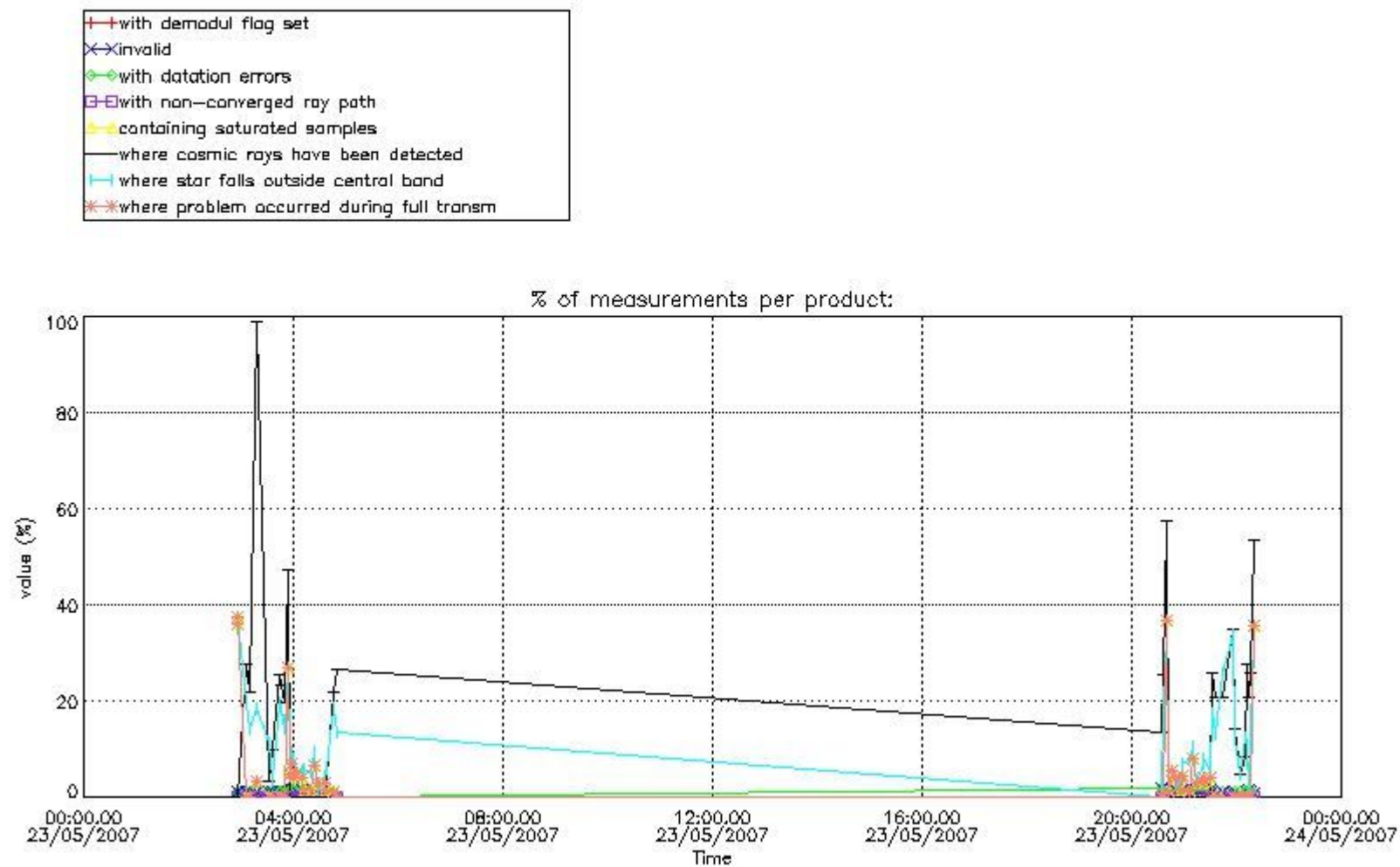
## 5. Demodulation flag and quality information monitoring

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.

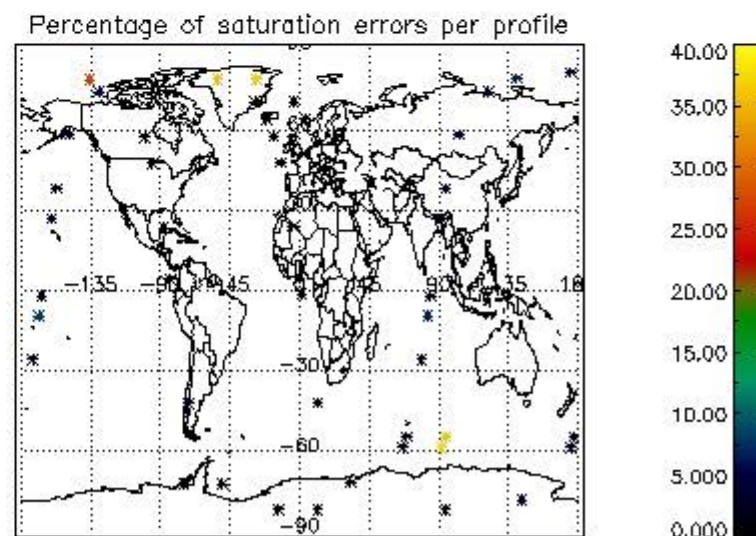
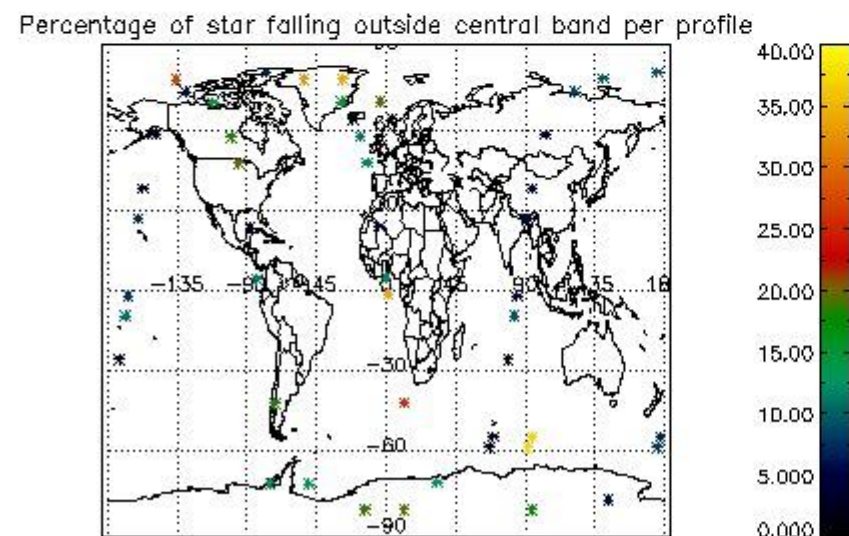
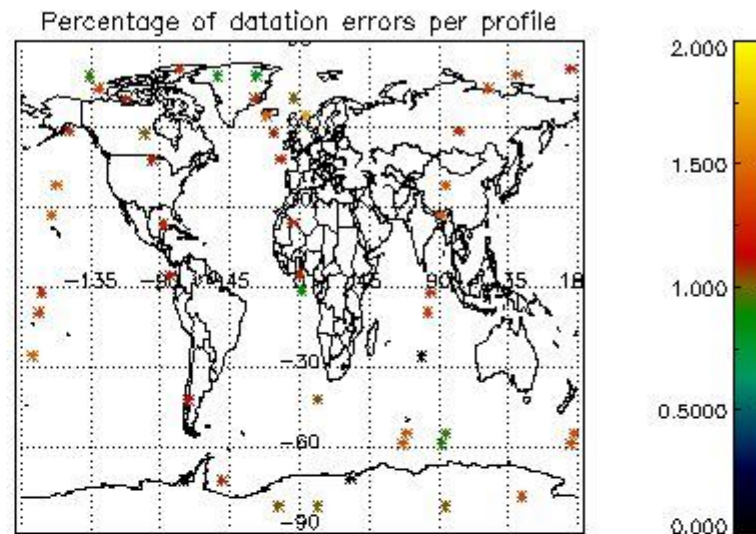
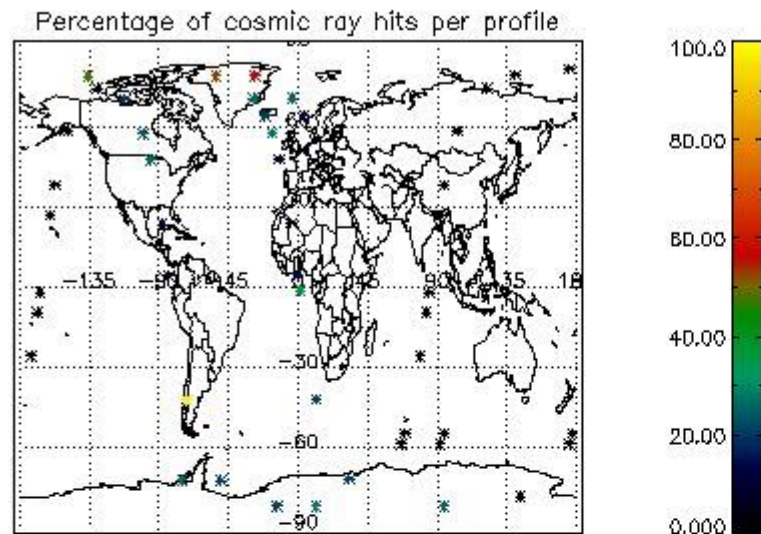
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.12245 %
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)

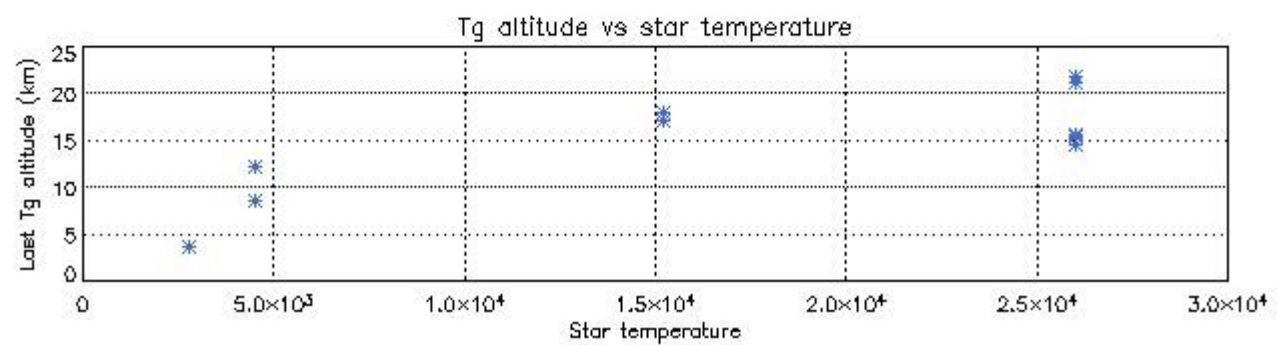
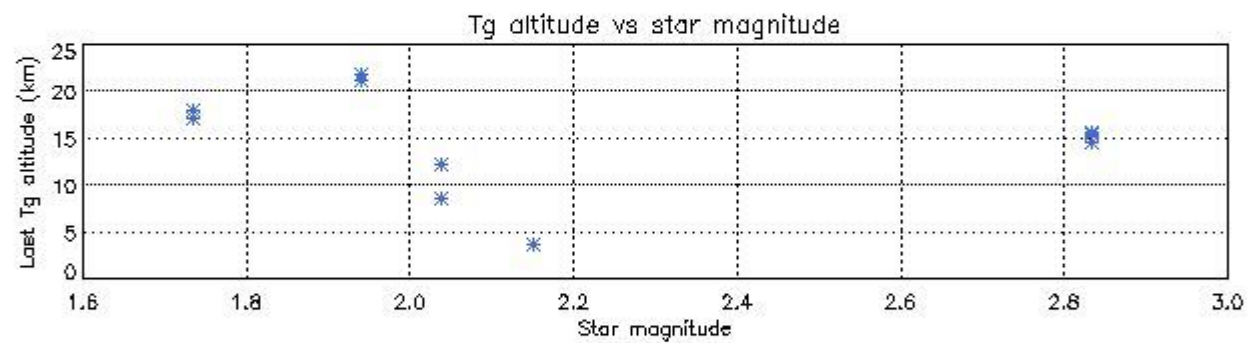
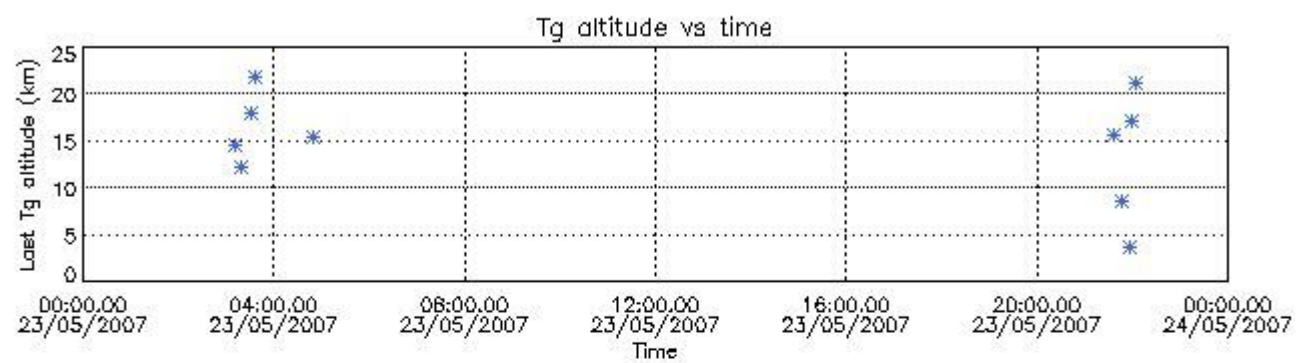
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.796	18.527	NaN
St. deviation:	5.5580	6.8948	NaN
Maximum:	21.891	25.060	NaN
Minimum:	3.5442	3.4888	NaN
Number of data:	10.000	27.000	NaN

### 6.2 Plot for DARK limb products

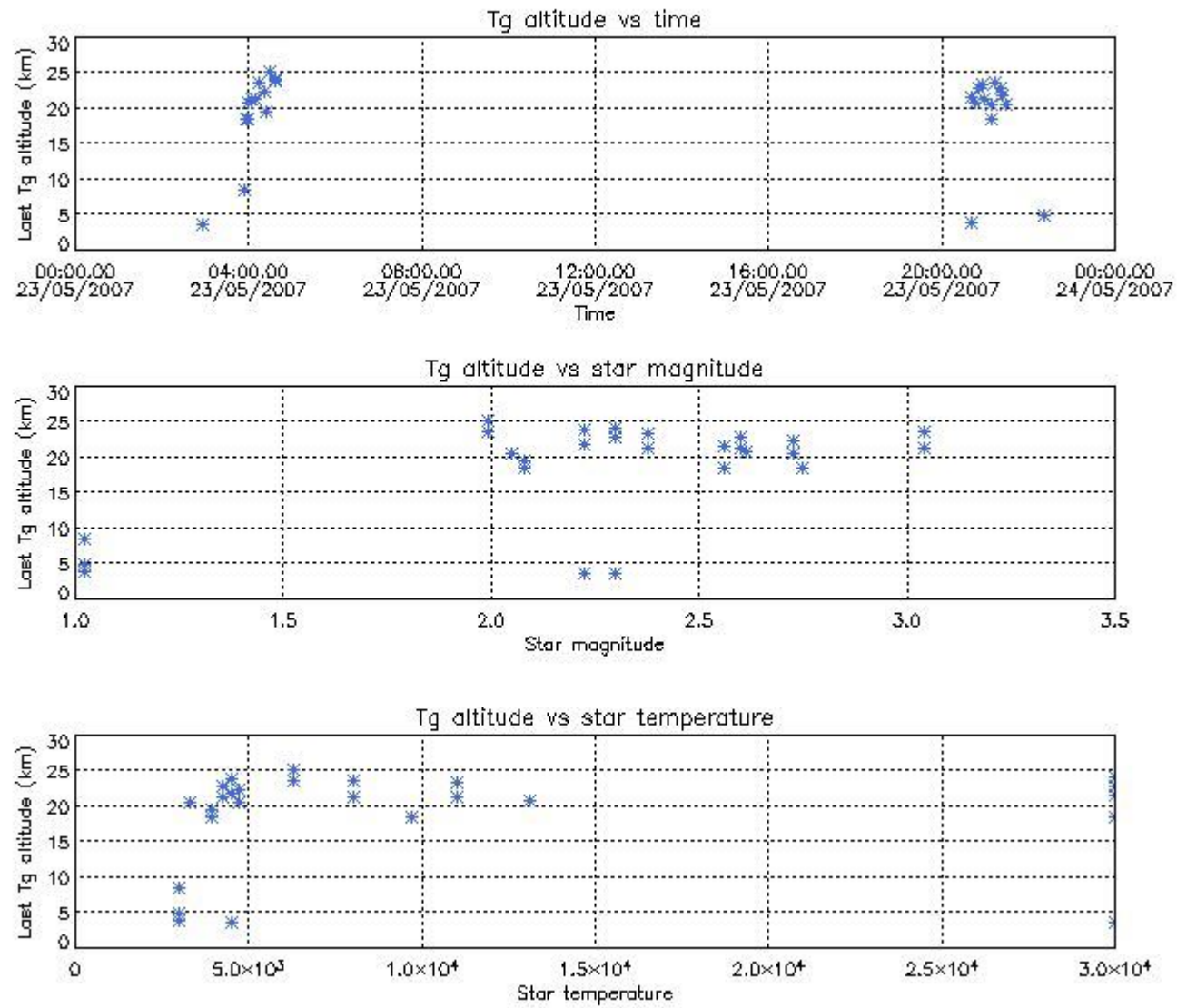


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

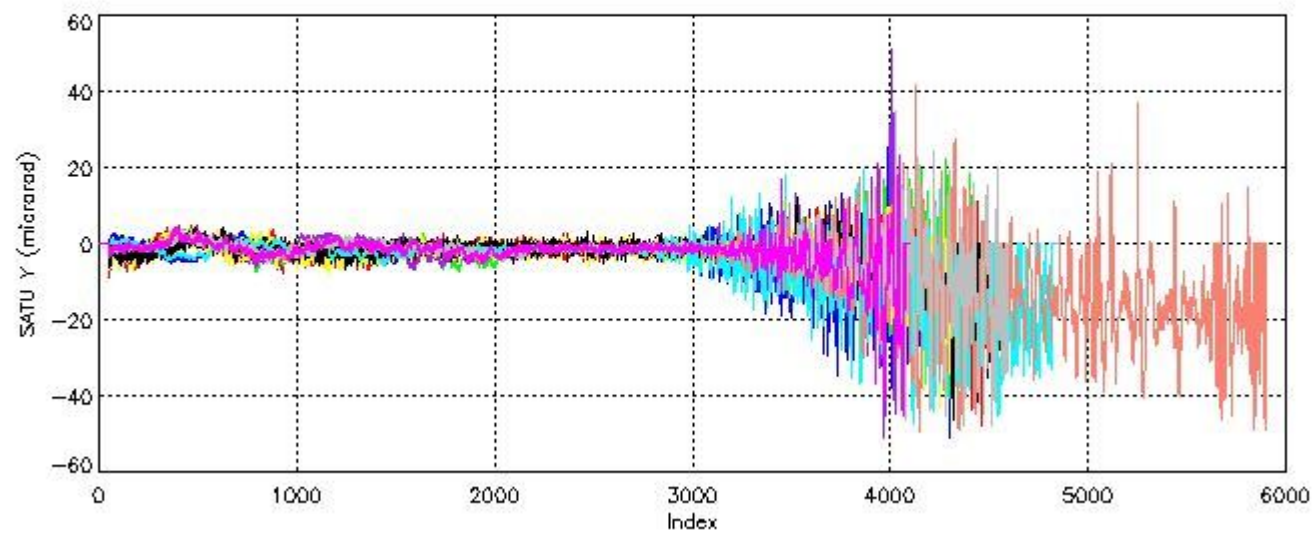
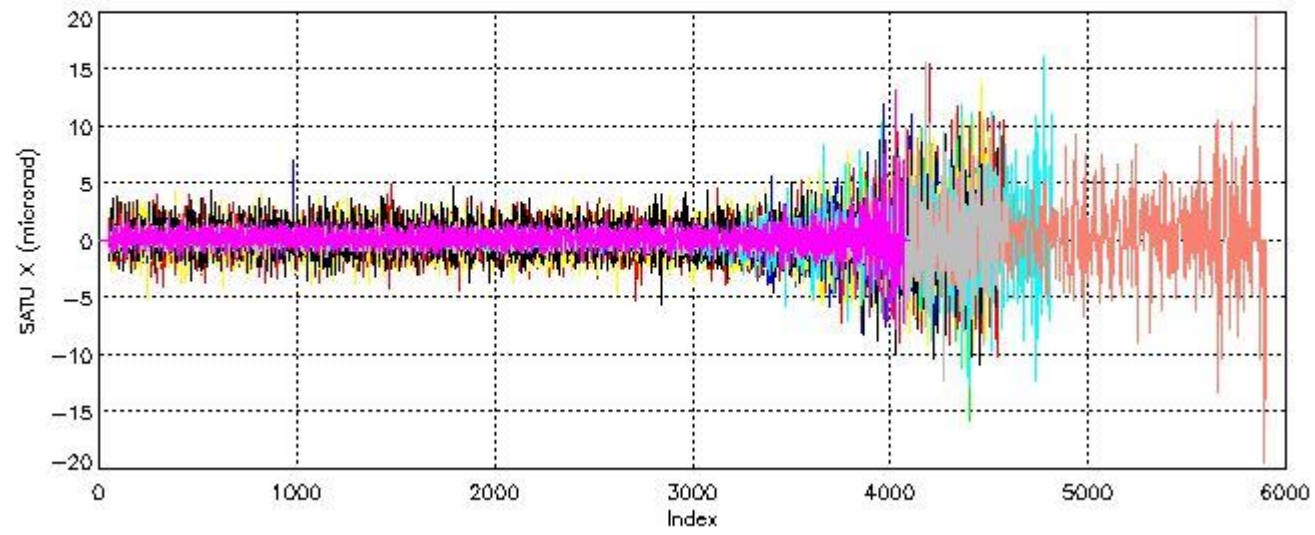


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.14433	-0.97007	0.17985	-0.93434
St. deviation:	0.67090	1.9222	0.68269	2.2190
Maximum:	4.4000	4.7000	5.1000	6.9000
Minimum:	-5.1000	-8.9000	-4.2000	-9.8000

Number of data:	10000.	10000.	23150.	23150.
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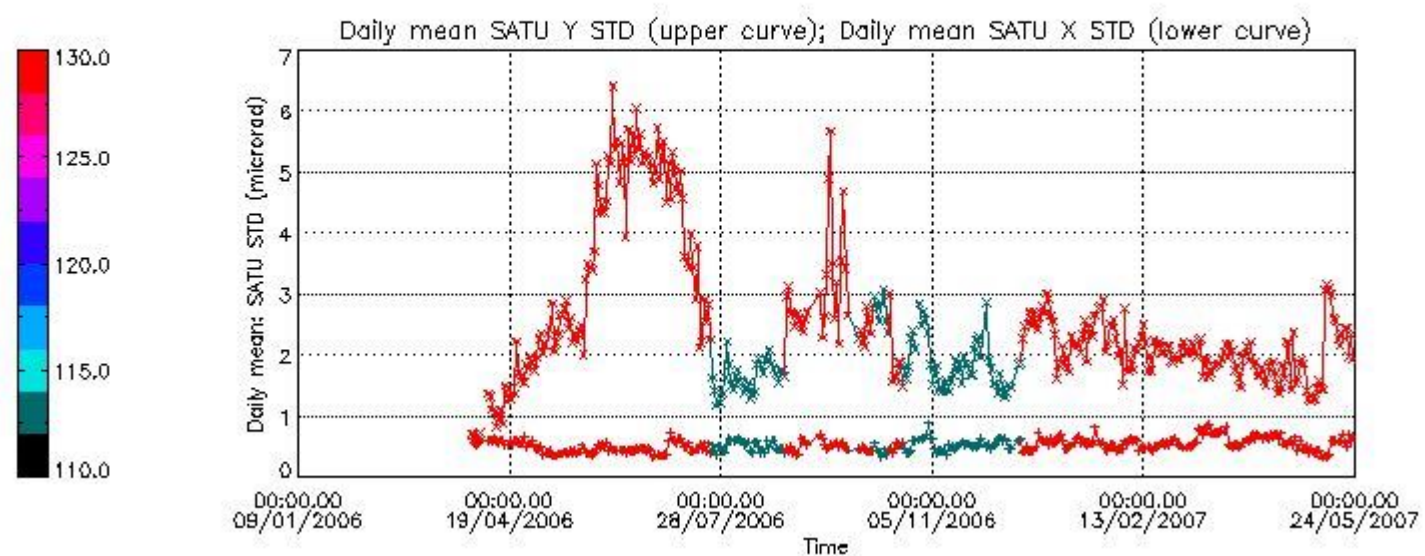
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

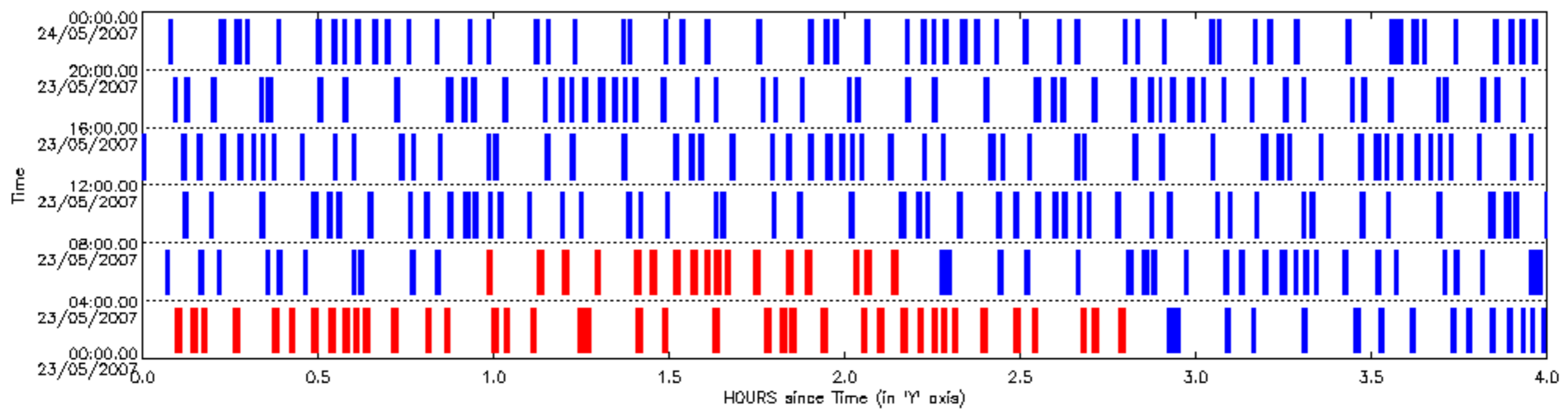
Lower curve: STD of SATU X axis

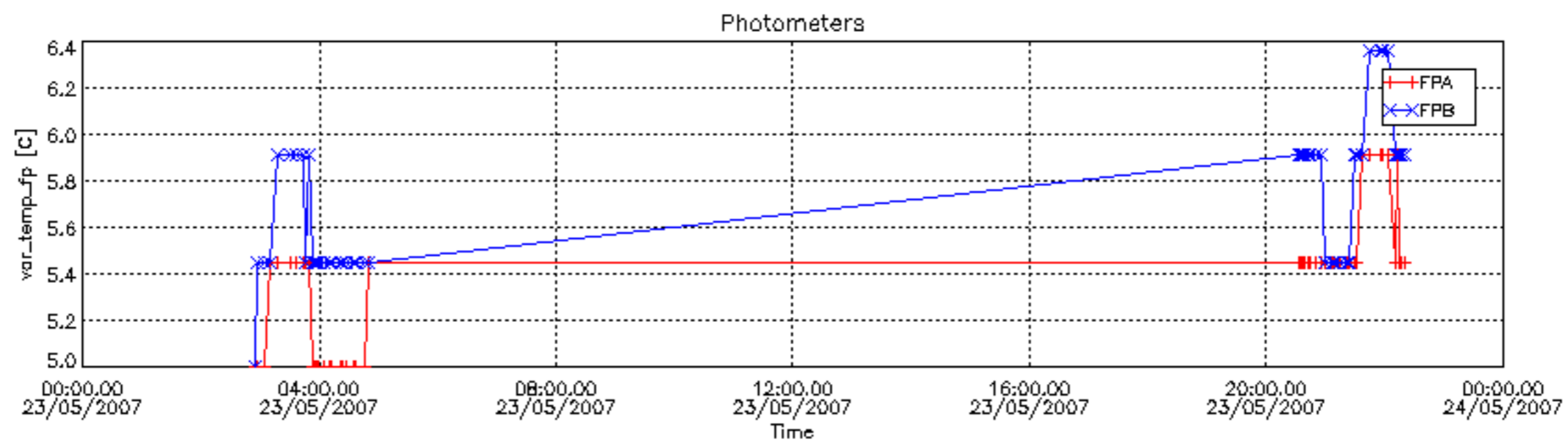
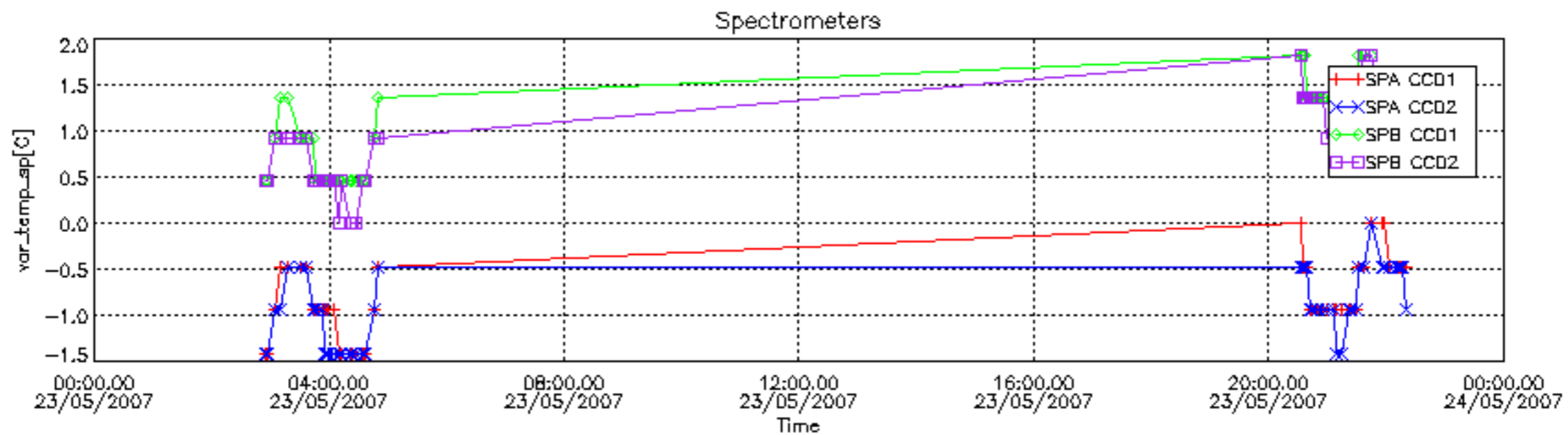


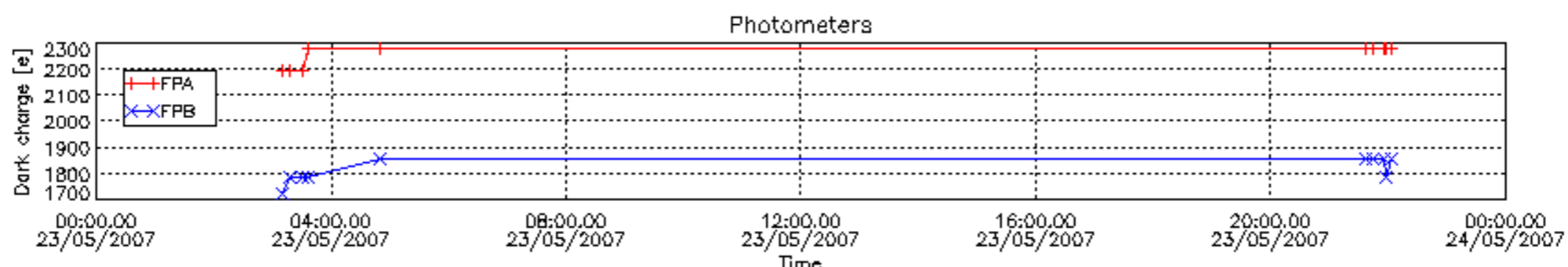
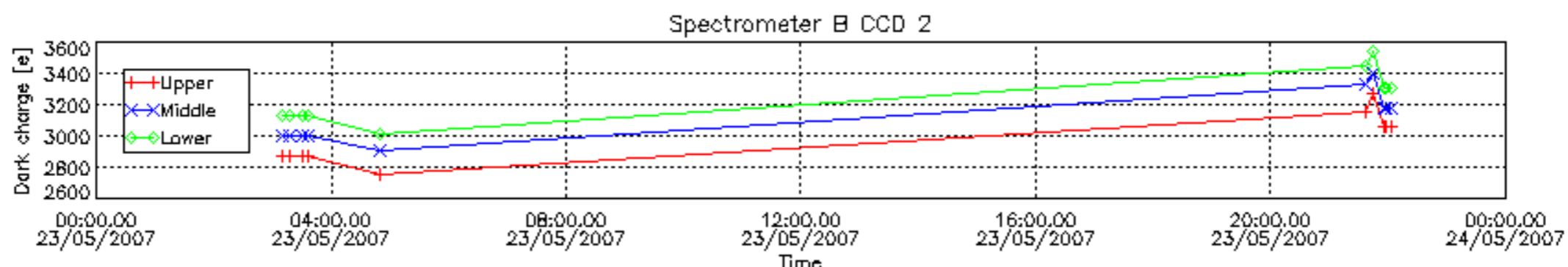
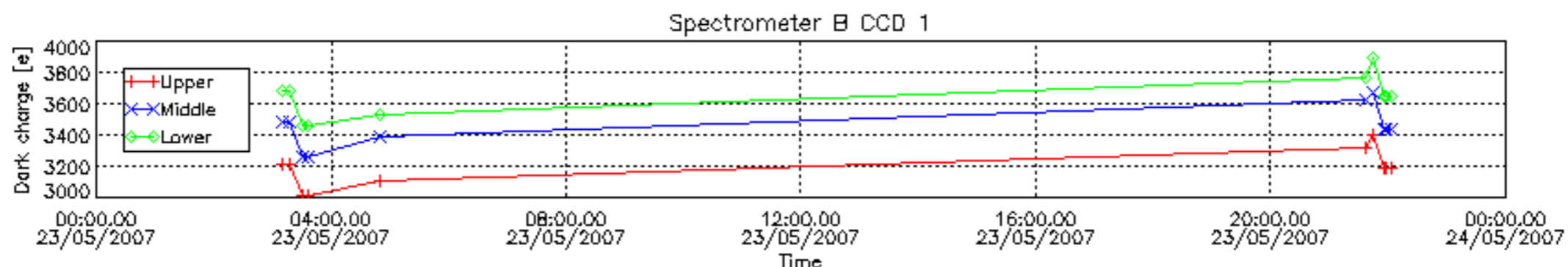
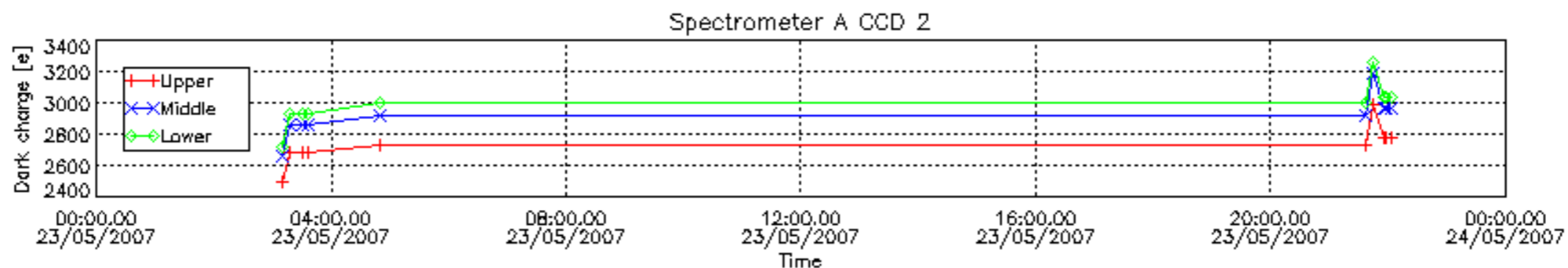
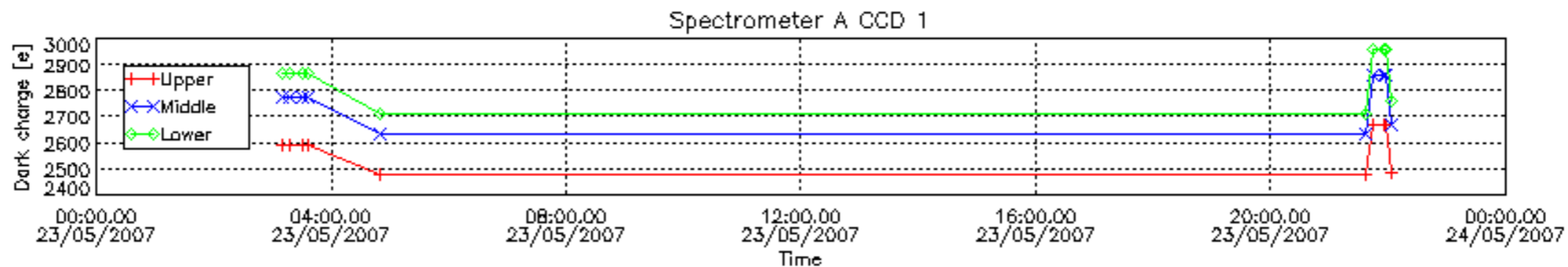
### 8. Auxiliary Data Files used for the production reported in section 2.4

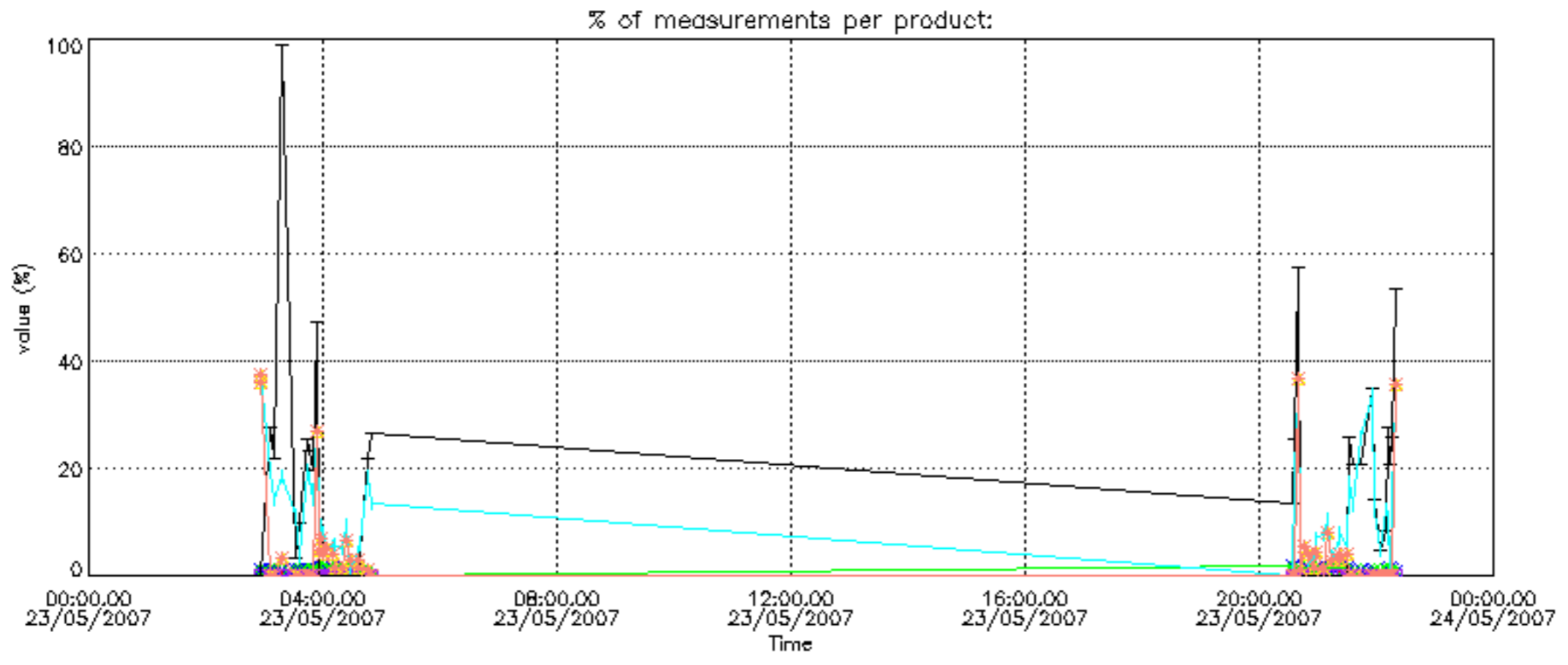
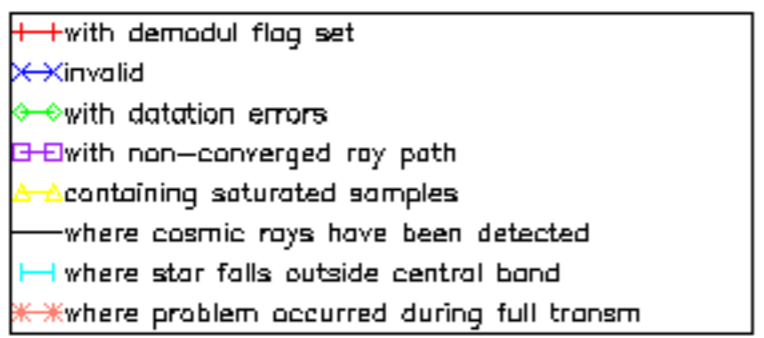
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-MAY-2007 02:55:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	23-MAY-2007 02:55:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-MAY-2007 02:55:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-MAY-2007 02:55:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-MAY-2007 02:55:09
ECMWF_FILE	AUX_ECF_AXNECM20070522_061111_20070522_210000_20070523_090000	1	23-MAY-2007 02:55:09
ECMWF_FILE	AUX_ECF_AXNECM20070522_181111_20070523_030000_20070523_150000	21	23-MAY-2007 04:35:45
ECMWF_FILE	AUX_ECF_AXNECM20070523_061110_20070523_150000_20070524_030000	25	23-MAY-2007 20:32:23
ECMWF_FILE	AUX_ECF_AXNECM20070523_061110_20070523_210000_20070524_090000	42	23-MAY-2007 21:44:55
OPTIONAL_ECMWF_FILE	MISSING	1	23-MAY-2007 02:55:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070522_221036_000060572058_00215_27323_3539.N1	1	23-MAY-2007 02:55:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070523_024653_000057382058_00218_27326_3540.N1	21	23-MAY-2007 04:35:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070523_202930_000041442058_00229_27337_3542.N1	25	23-MAY-2007 20:32:23



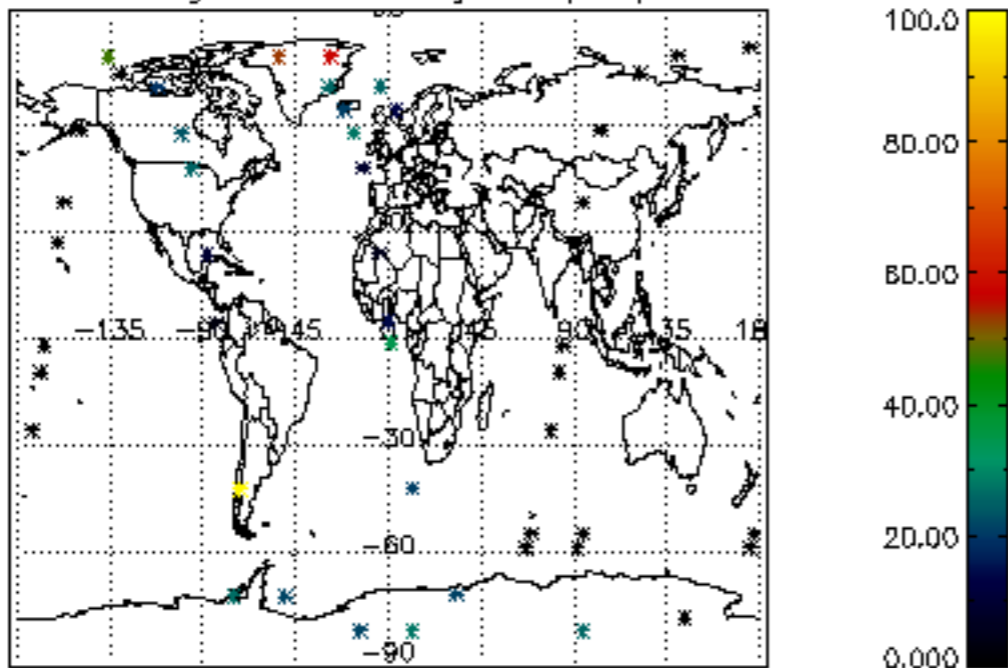




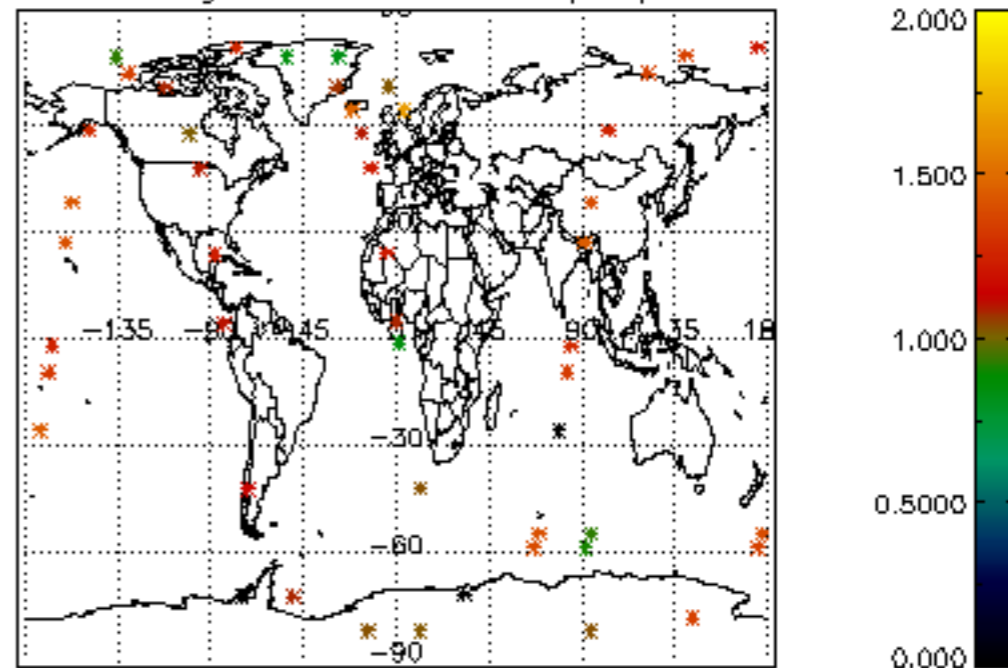




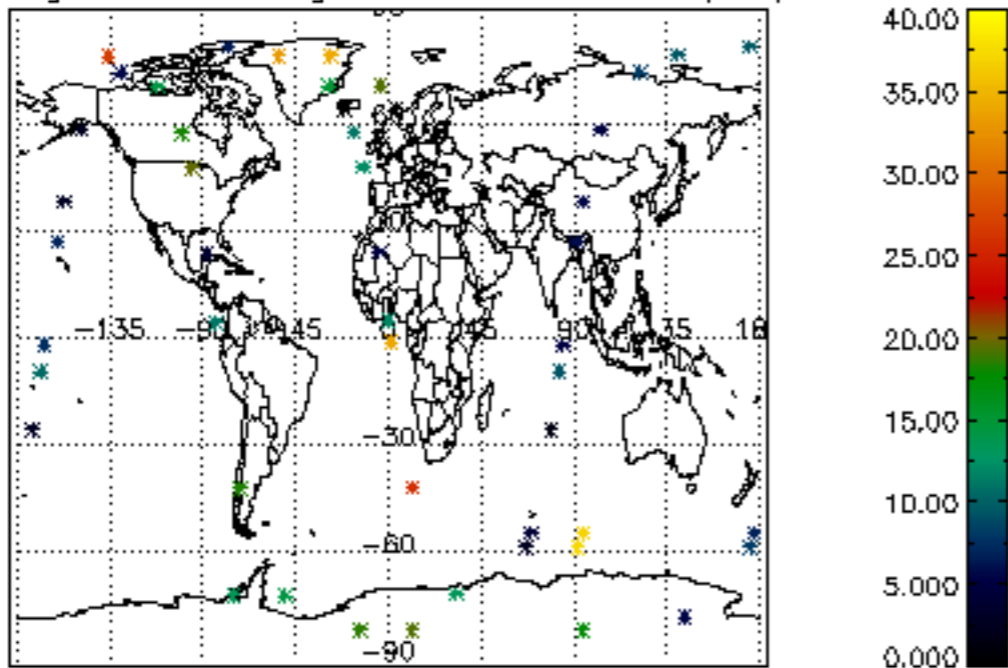
Percentage of cosmic ray hits per profile



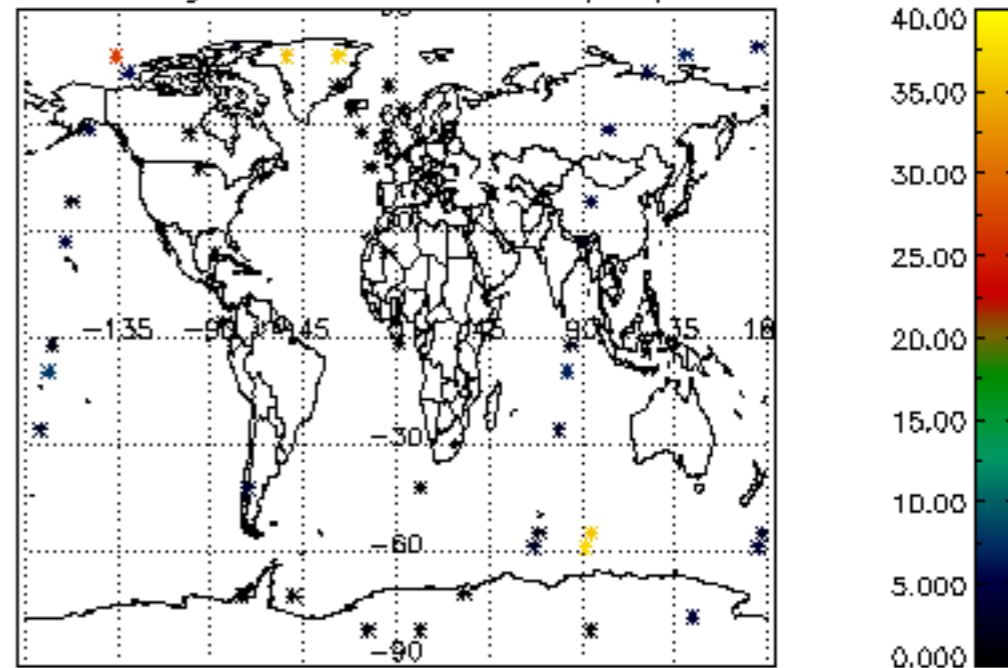
Percentage of datation errors per profile



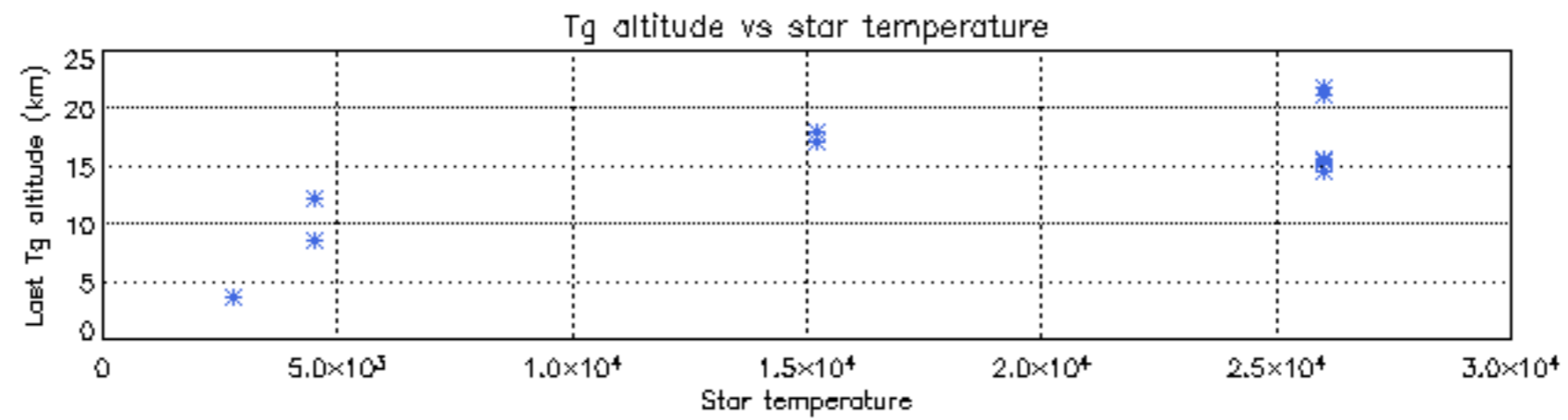
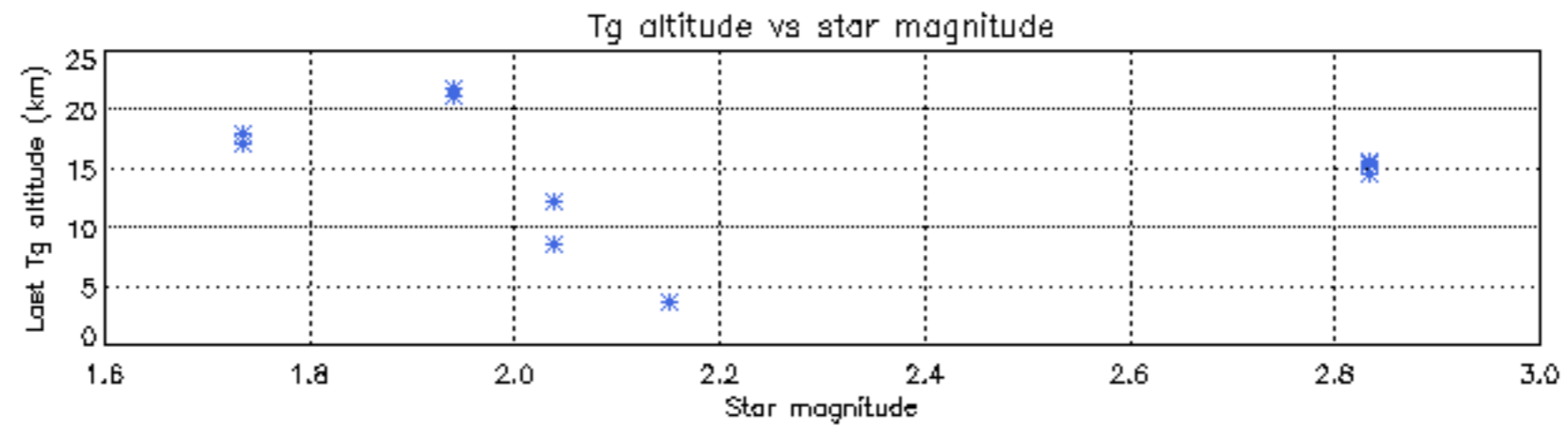
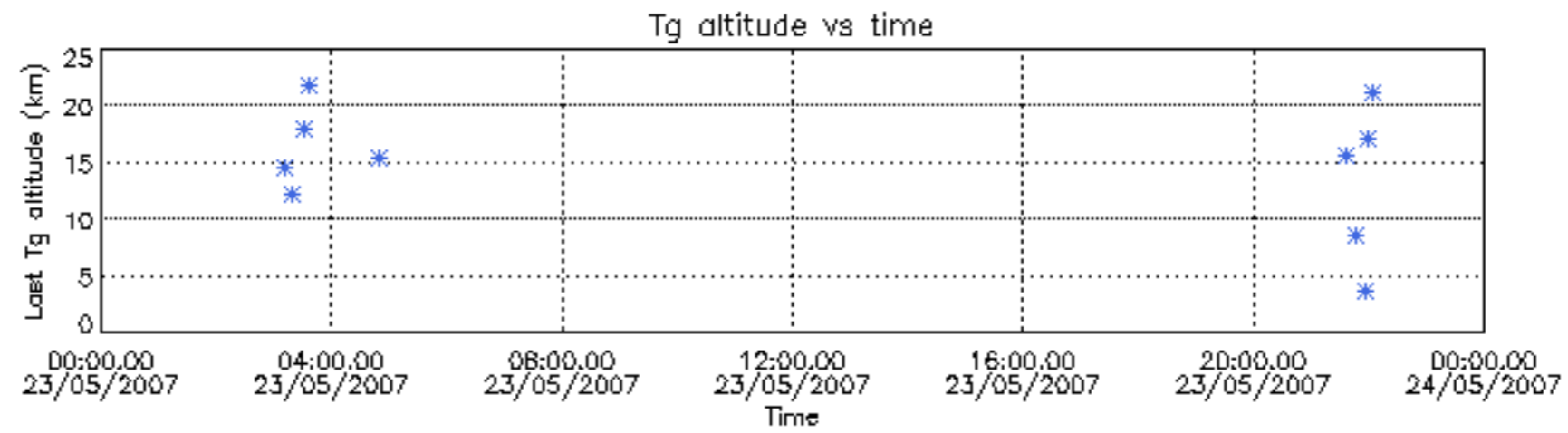
Percentage of star falling outside central band per profile



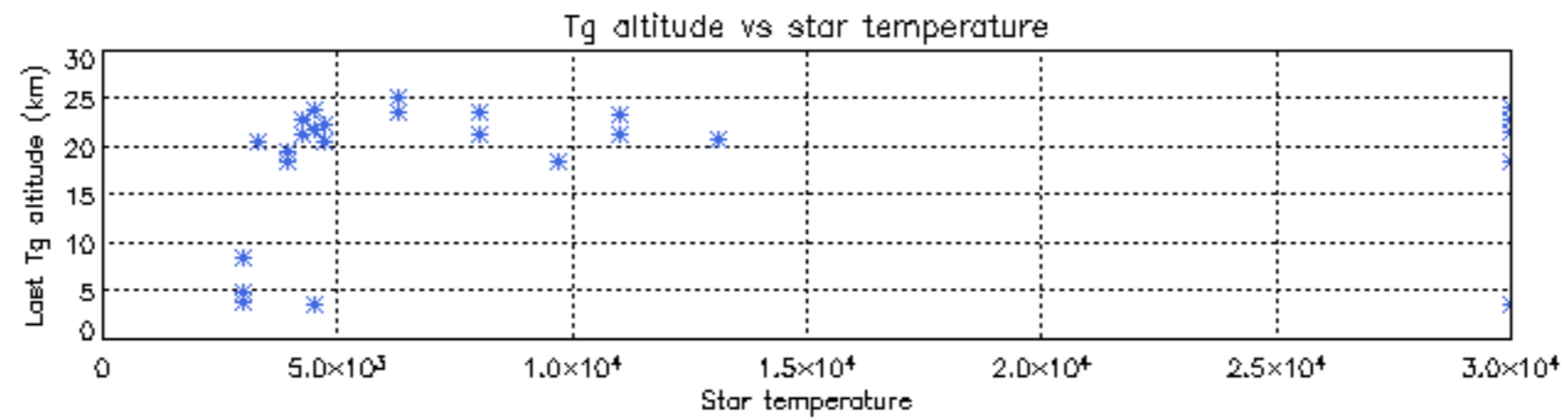
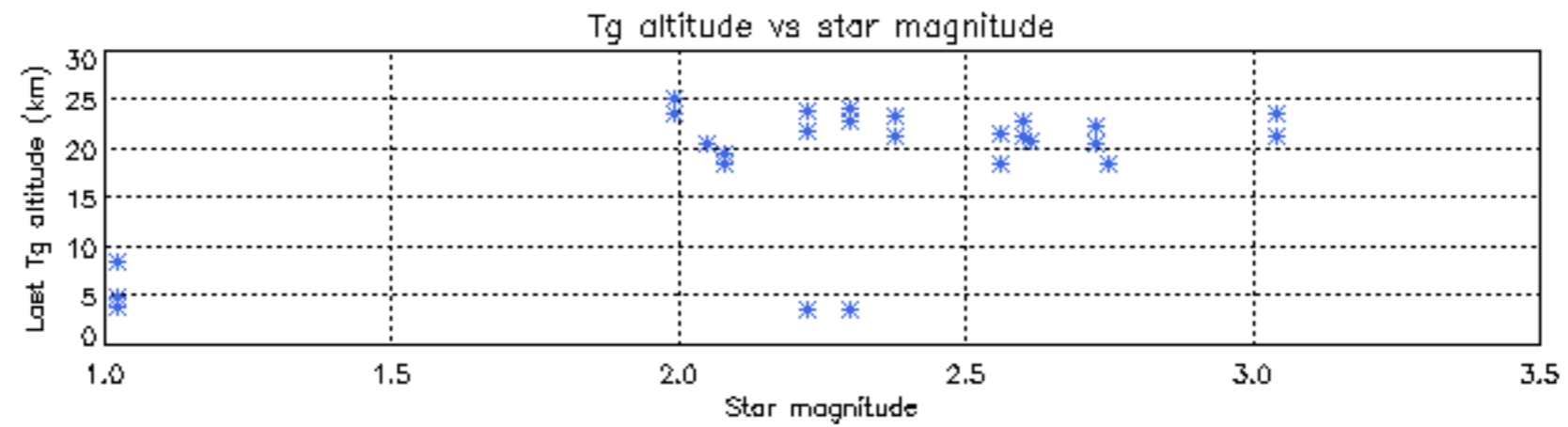
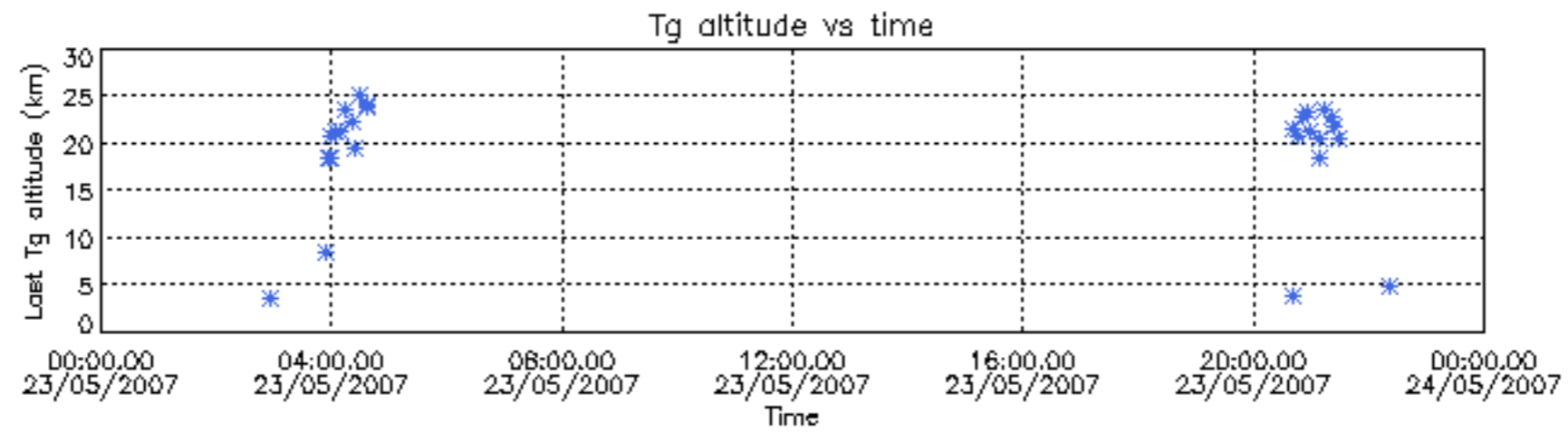
Percentage of saturation errors per profile

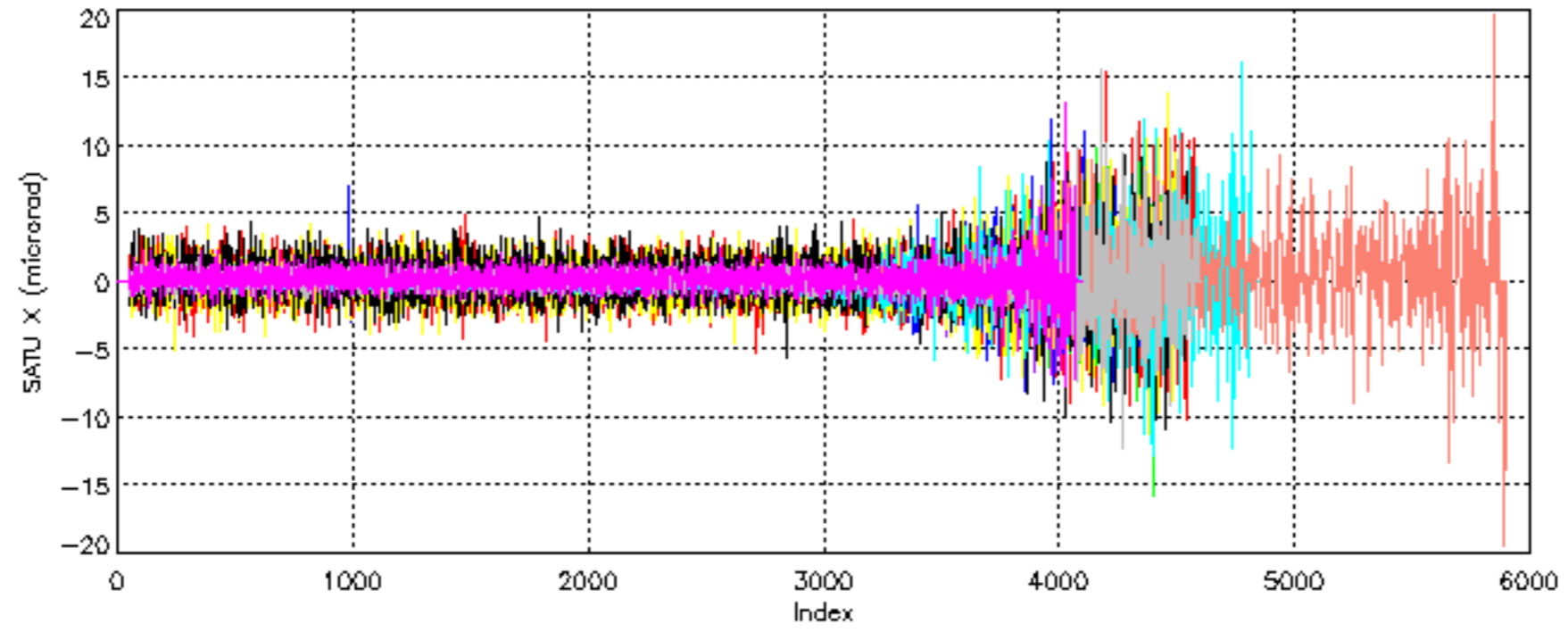


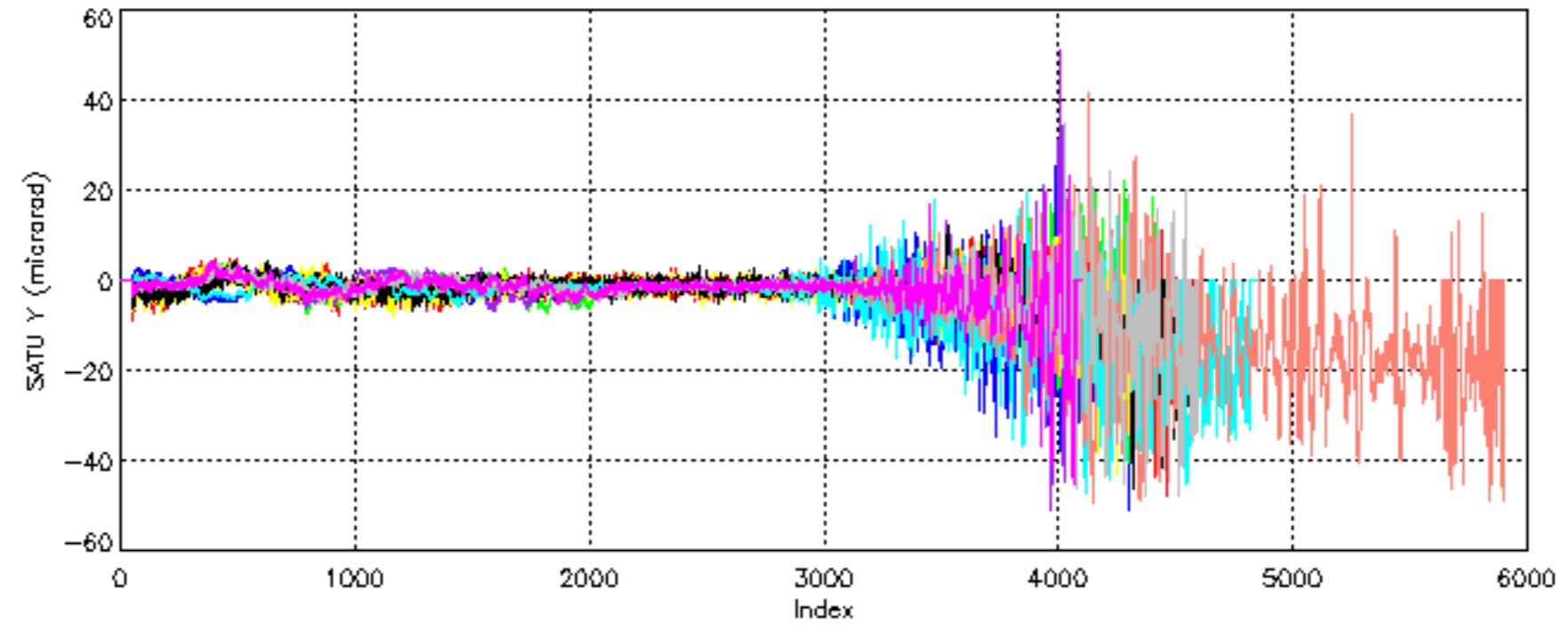
Tangent altitude at which the star is lost

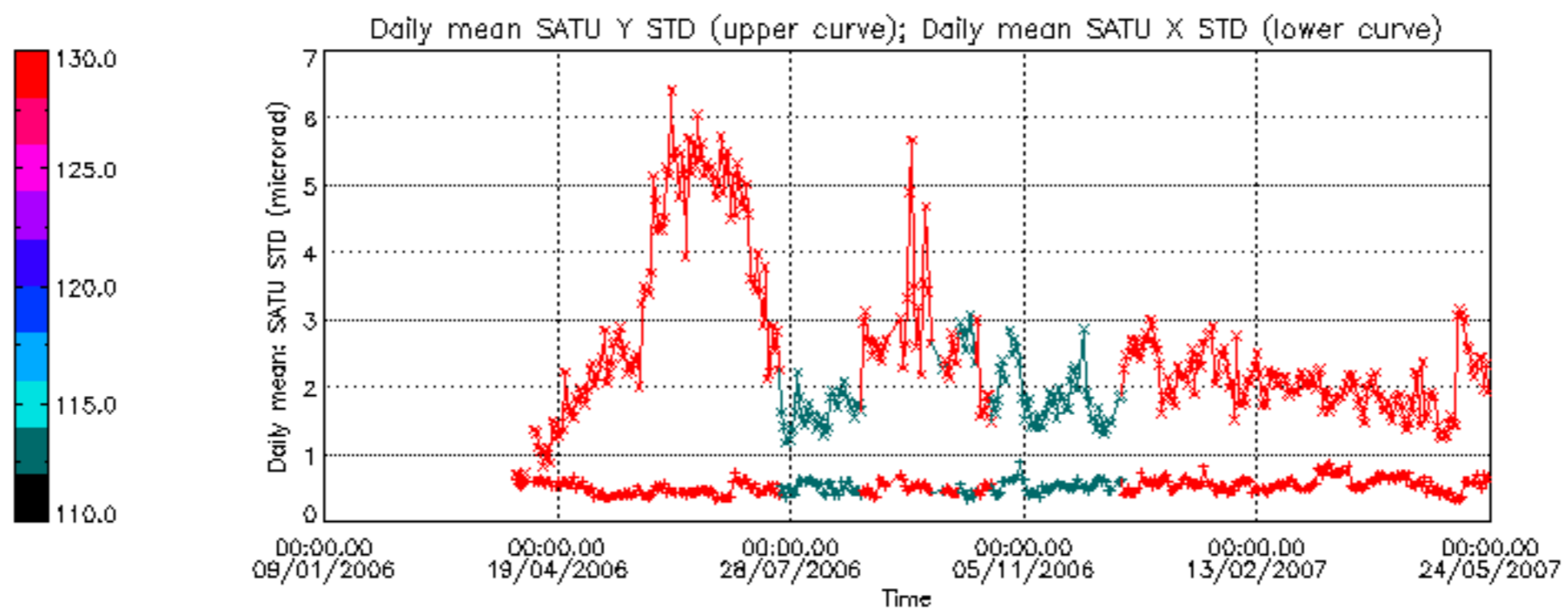


Tangent altitude at which the star is lost









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1; -370.3; 01-MAY-2007 01:34:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27010  
 2; -150.6; 01-MAY-2007 01:38:22; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27010  
 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011  
 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011  
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011  
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011  
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011  
 8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011  
 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011  
 10; 1254.7; 01-MAY-2007 02:01:48; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27011  
 11; 1512.0; 01-MAY-2007 02:06:05; Dark ; 41.0; 169; 46Gam Hya ; 2.99; 4700;occ; 82; 0;27011  
 12; 1711.6; 01-MAY-2007 02:09:25; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27011  
 13; 1895.7; 01-MAY-2007 02:12:29; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27011  
 14; 2095.3; 01-MAY-2007 02:15:48; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27011  
 15; 2559.8; 01-MAY-2007 02:23:33; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27011  
 16; 2832.2; 01-MAY-2007 02:28:05; Bright; 35.0; 87; 64Gam UMA ; 2.43; 11000;occ; 70; 0;27011  
 17; 2915.7; 01-MAY-2007 02:29:29; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;27011  
 18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;27011  
 19; 3444.8; 01-MAY-2007 02:38:18; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27011

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1; -2118.8; 01-MAY-2007 02:46:10; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;27011  
 2; -2036.1; 01-MAY-2007 02:47:33; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27011  
 3; -495.7; 01-MAY-2007 03:13:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27011  
 4; -369.7; 01-MAY-2007 03:15:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27011  
 5; -150.0; 01-MAY-2007 03:18:59; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;27011  
 6; 8.2; 01-MAY-2007 03:21:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27012  
 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012  
 8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012  
 9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012  
 10; 831.6; 01-MAY-2007 03:35:21; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;27012  
 11; 1036.5; 01-MAY-2007 03:38:45; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;27012  
 12; 1129.2; 01-MAY-2007 03:40:18; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27012  
 13; 1254.8; 01-MAY-2007 03:42:24; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27012  
 14; 1512.2; 01-MAY-2007 03:46:41; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;27012  
 15; 1711.9; 01-MAY-2007 03:50:01; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27012  
 16; 1896.1; 01-MAY-2007 03:53:05; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27012  
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 19; 2832.5; 01-MAY-2007 04:08:41; Bright; 36.0; 87; 64Gam UMA ; 2.43; 11000;occ; 72; 0;27012  
 20; 2916.0; 01-MAY-2007 04:10:05; Bright; 35.5; 82; 48Bet UMA ; 2.37; 10600;occ; 71; 0;27012  
 21; 2995.2; 01-MAY-2007 04:11:24; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27012  
 22; 3444.8; 01-MAY-2007 04:18:54; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27012

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1; -2118.6; 01-MAY-2007 04:26:46; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27012  
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 6; 8.5; 01-MAY-2007 05:02:13; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27013  
 7; 179.1; 01-MAY-2007 05:05:04; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27013  
 8; 576.2; 01-MAY-2007 05:11:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27013  
 9; 707.9; 01-MAY-2007 05:13:53; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27013  
 10; 831.8; 01-MAY-2007 05:15:57; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27013  
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 15; 1711.9; 01-MAY-2007 05:30:37; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;27013  
 16; 1896.2; 01-MAY-2007 05:33:41; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27013  
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 18; 2559.9; 01-MAY-2007 05:44:45; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27013  
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 21; 2995.5; 01-MAY-2007 05:52:00; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27013  
 22; 3444.9; 01-MAY-2007 05:59:30; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27013

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1; 1039.7; 01-MAY-2007 20:24:48; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;27022

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 9; 1209.4; 23-MAY-2007 22:16:52; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;27338  
 10; 1381.0; 23-MAY-2007 22:19:44; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27338  
 11; 1524.9; 23-MAY-2007 22:22:08; Bright; 41.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 83; 0;27338  
 12; 1734.6; 23-MAY-2007 22:25:38; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27338  
 13; 2025.1; 23-MAY-2007 22:30:28; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;27338  
 14; 2370.4; 23-MAY-2007 22:36:13; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27338  
 15; 2560.4; 23-MAY-2007 22:39:23; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27338  
 16; 3046.2; 23-MAY-2007 22:47:29; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27338  
 17; 3172.6; 23-MAY-2007 22:49:36; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27338  
 18; 3446.6; 23-MAY-2007 22:54:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27338  
 19; 3936.9; 23-MAY-2007 23:02:20; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;27338  
 20; 4009.3; 23-MAY-2007 23:03:32; Bright; 44.5; 68; 18Alp Cas ; 2.22; 4500;occ; 89; 0;27338  
 21; 4381.2; 23-MAY-2007 23:09:44; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;27338  
 22; 4533.2; 23-MAY-2007 23:12:16; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;27338  
 23; 4799.9; 23-MAY-2007 23:16:43; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27338  
 24; 5328.5; 23-MAY-2007 23:25:32; Dark ; 1.5; 52; 16Bet Cet ; 2.04; 4500;occ; 3; 0;27338

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1; -707.4; 23-MAY-2007 23:25:32; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27338  
 2; -258.6; 23-MAY-2007 23:33:00; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;27338  
 3; -184.2; 23-MAY-2007 23:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27338  
 4; -20.0; 23-MAY-2007 23:36:59; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27338  
 5; 80.9; 23-MAY-2007 23:38:40; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27339  
 6; 403.5; 23-MAY-2007 23:44:02; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27339  
 7; 810.2; 23-MAY-2007 23:50:49; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27339  
 8; 976.6; 23-MAY-2007 23:53:36; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27339  
 9; 1089.2; 23-MAY-2007 23:55:28; Dark ; 34.0; 115; 34Ups Sco ; 2.70; 26000;occ; 68; 0;27339  
 10; 1209.7; 23-MAY-2007 23:57:29; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;27339  
 11; 1381.2; 24-MAY-2007 00:00:20; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27339  
 12; 1525.1; 24-MAY-2007 00:02:44; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;27339  
 13; 1734.7; 24-MAY-2007 00:06:14; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27339  
 14; 2024.9; 24-MAY-2007 00:11:04; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27339  
 15; 2370.3; 24-MAY-2007 00:16:49; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27339  
 16; 2560.3; 24-MAY-2007 00:19:59; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27339  
 17; 3045.8; 24-MAY-2007 00:28:05; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27339  
 18; 3172.5; 24-MAY-2007 00:30:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27339  
 19; 3446.6; 24-MAY-2007 00:34:46; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27339  
 20; 3937.3; 24-MAY-2007 00:42:56; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;27339  
 21; 4009.2; 24-MAY-2007 00:44:08; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;27339  
 22; 4381.2; 24-MAY-2007 00:50:20; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;27339  
 23; 4533.3; 24-MAY-2007 00:52:52; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;27339  
 24; 4800.4; 24-MAY-2007 00:57:19; Dark ; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;27339  
 25; 5329.0; 24-MAY-2007 01:06:08; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;27339

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1; -2098.7; 23-MAY-2007 06:16:21; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;27328  
 2; -2026.2; 23-MAY-2007 06:17:33; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;27328  
 3; -1504.4; 23-MAY-2007 06:26:15; Dark ; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;27328  
 4; -1239.6; 23-MAY-2007 06:30:40; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27328  
 5; -711.6; 23-MAY-2007 06:39:28; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27328  
 6; -189.6; 23-MAY-2007 06:48:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27328  
 7; -27.3; 23-MAY-2007 06:50:52; Dark ; 58.0; 63; Bet Gru ; 2.15; 2800;occ; 116; 0;27328  
 8; 72.5; 23-MAY-2007 06:52:32; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27329  
 9; 396.6; 23-MAY-2007 06:57:56; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329  
 10; 805.9; 23-MAY-2007 07:04:46; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;27329  
 11; 971.2; 23-MAY-2007 07:07:31; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27329  
 12; 1206.0; 23-MAY-2007 07:11:26; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27329  
 13; 1378.7; 23-MAY-2007 07:14:18; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;27329  
 14; 1523.6; 23-MAY-2007 07:16:43; Bright; 40.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 80; 0;27329  
 15; 1629.8; 23-MAY-2007 07:18:29; Bright; 35.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 71; 0;27329

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1; 1734.0; 23-MAY-2007 07:20:14; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27329

2; 2026.5; 23-MAY-2007 07:25:06; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27329  
3; 2371.0; 23-MAY-2007 07:30:51; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27329  
4; 2560.7; 23-MAY-2007 07:34:00; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27329  
5; 3049.9; 23-MAY-2007 07:42:10; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27329  
6; 3173.4; 23-MAY-2007 07:44:13; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27329  
7; 3446.6; 23-MAY-2007 07:48:46; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27329  
8; 3937.2; 23-MAY-2007 07:56:57; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;27329  
9; 4009.8; 23-MAY-2007 07:58:09; Bright; 55.0; 68; 18Alp Cas ; 2.22; 4500;occ; 110; 0;27329  
10; 4531.6; 23-MAY-2007 08:06:51; Dark ; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;27329  
11; 4796.6; 23-MAY-2007 08:11:16; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27329  
12; 5324.6; 23-MAY-2007 08:20:04; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27329  
13; 5846.9; 23-MAY-2007 08:28:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27329  
14; 6009.4; 23-MAY-2007 08:31:29; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27329  
15; 6109.2; 23-MAY-2007 08:33:09; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27329  
16; 6433.2; 23-MAY-2007 08:38:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329  
17; 6842.3; 23-MAY-2007 08:45:22; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27329  
18; 7007.7; 23-MAY-2007 08:48:07; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;27329  
19; 7242.3; 23-MAY-2007 08:52:02; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27329  
20; 7414.9; 23-MAY-2007 08:54:55; Dark ; 59.5; 16; 21Alp Sco ; 1.02; 3000;occ; 119; 0;27329  
21; 7510.3; 23-MAY-2007 08:56:30; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27329  
22; 7665.8; 23-MAY-2007 08:59:05; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27329  
23; 7769.9; 23-MAY-2007 09:00:50; Bright; 35.5; 104; 27Bet Lib ; 2.61; 13100;occ; 71; 0;27329

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1; 2026.3; 23-MAY-2007 09:05:42; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27330  
2; 2370.8; 23-MAY-2007 09:11:26; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27330  
3; 2560.8; 23-MAY-2007 09:14:36; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27330  
4; 3049.5; 23-MAY-2007 09:22:45; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;27330  
5; 3173.3; 23-MAY-2007 09:24:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27330  
6; 3446.6; 23-MAY-2007 09:29:22; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27330  
7; 3937.3; 23-MAY-2007 09:37:33; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;27330  
8; 4009.6; 23-MAY-2007 09:38:45; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;27330  
9; 4531.8; 23-MAY-2007 09:47:27; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27330  
10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330  
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330  
12; 5847.4; 23-MAY-2007 10:09:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27330  
13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330  
14; 6110.1; 23-MAY-2007 10:13:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27330  
15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330  
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330  
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330  
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330  
19; 7415.2; 23-MAY-2007 10:35:31; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27330  
20; 7510.4; 23-MAY-2007 10:37:06; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27330  
21; 7666.0; 23-MAY-2007 10:39:42; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27330

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1; 1662.1; 23-MAY-2007 10:40:14; Bright; 35.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 71; 64;27331  
2; 1733.9; 23-MAY-2007 10:41:25; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27331  
3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331  
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331  
5; 2560.6; 23-MAY-2007 10:55:12; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27331  
6; 3049.0; 23-MAY-2007 11:03:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27331  
7; 3173.2; 23-MAY-2007 11:05:25; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27331  
8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331  
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331  
10; 4009.5; 23-MAY-2007 11:19:21; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27331  
11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331  
12; 4797.2; 23-MAY-2007 11:32:29; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27331  
13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331  
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331  
15; 6010.8; 23-MAY-2007 11:52:42; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27331  
16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331  
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331  
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331  
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331  
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331  
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331  
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331  
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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1;	1630.2;	23-MAY-2007	12:20:18;	Bright;	36.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	73;	0;	27332
2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	119;	0;	27332

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1;	1524.3;	23-MAY-2007	13:59:08;	Bright;	42.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	84;	0;	27333	
2;	1630.4;	23-MAY-2007	14:00:54;	Bright;	35.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	71;	0;	27333	
3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
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12;	3446.8;	31-MAY-2007	18:41:14;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;27450	
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