

# GOMOS Daily Report 22-AUG-2011

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	27AUG2011 07:09:06
Data source version	GOMOS/6.01
Start time of products	22AUG2011 00:01:20
Stop time of products	22AUG2011 23:58:59
Store outputs in DB	Yes
Nb of level 1b prods	316
Nb of prods with errors	1

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

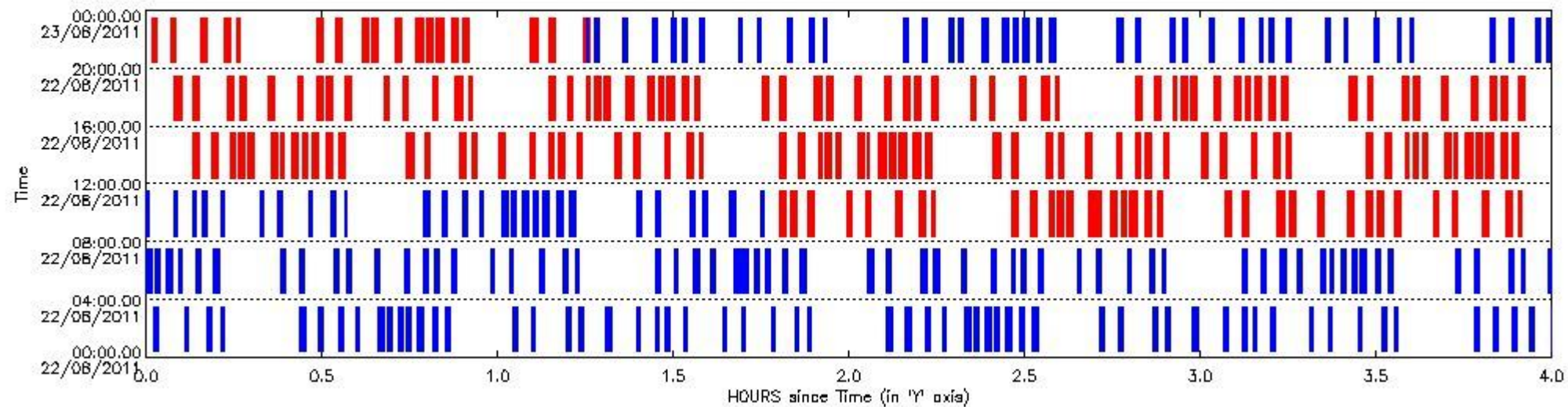
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
22-AUG-2011 09:48:11	22BetAqr	154	49562
22-AUG-2011 09:49:54	34AlpAqr	162	49562
22-AUG-2011 09:52:58	8EpsPeg	61	49562
22-AUG-2011 09:59:37	53EpsCyg	92	49562
22-AUG-2011 10:02:48	50AlpCyg	19	49562
22-AUG-2011 10:07:59	5AlpCep	89	49562
22-AUG-2011 10:11:52	11BetCas	74	49562
22-AUG-2011 10:14:04	27GamCas	76	49562
22-AUG-2011 10:27:41	13AlpAur	6	49562
22-AUG-2011 10:30:53	37TheAur	107	49562
22-AUG-2011 10:34:13	12BetTau	28	49562
22-AUG-2011 10:35:30	13MuGem	151	49562
22-AUG-2011 10:37:09	24GamGem	44	49562
22-AUG-2011 10:41:01	58AlpOri	14	49562
22-AUG-2011 10:42:35	24GamOri	27	49562

22-AUG-2011 10:44:33	46EpsOri	30	49562
22-AUG-2011 10:46:27	9AlpCMa	1	49562
22-AUG-2011 10:47:54	19BetOri	7	49562
22-AUG-2011 10:50:31	9BetLep	139	49562
22-AUG-2011 10:52:32	DSA1062	0	49562
22-AUG-2011 11:04:04	The1Eri	157	49563
22-AUG-2011 11:07:15	AlpEri	9	49563
22-AUG-2011 11:13:09	AlpPhe	84	49563
22-AUG-2011 11:15:16	BetGru	63	49563
22-AUG-2011 11:19:58	24AlpPsA	18	49563
22-AUG-2011 11:25:09	49DelCap	142	49563
22-AUG-2011 11:28:25	22BetAqr	154	49563
22-AUG-2011 11:30:08	34AlpAqr	162	49563
22-AUG-2011 11:33:12	8EpsPeg	61	49563
22-AUG-2011 11:39:50	53EpsCyg	92	49563
22-AUG-2011 11:43:02	50AlpCyg	19	49563
22-AUG-2011 11:48:13	5AlpCep	89	49563
22-AUG-2011 11:52:05	11BetCas	74	49563
22-AUG-2011 11:54:18	27GamCas	76	49563
22-AUG-2011 12:07:55	13AlpAur	6	49563
22-AUG-2011 12:11:07	37TheAur	107	49563
22-AUG-2011 12:14:27	12BetTau	28	49563
22-AUG-2011 12:15:44	13MuGem	151	49563
22-AUG-2011 12:17:23	24GamGem	44	49563
22-AUG-2011 12:21:15	58AlpOri	14	49563
22-AUG-2011 12:22:50	24GamOri	27	49563
22-AUG-2011 12:24:47	46EpsOri	30	49563
22-AUG-2011 12:26:41	9AlpCMa	1	49563
22-AUG-2011 12:28:09	19BetOri	7	49563
22-AUG-2011 12:30:46	9BetLep	139	49563
22-AUG-2011 12:32:47	DSA1062	0	49563
22-AUG-2011 12:44:19	The1Eri	157	49564
22-AUG-2011 12:47:30	AlpEri	9	49564
22-AUG-2011 12:53:24	AlpPhe	84	49564
22-AUG-2011 12:55:30	BetGru	63	49564
22-AUG-2011 13:00:12	24AlpPsA	18	49564
22-AUG-2011 13:05:23	49DelCap	142	49564
22-AUG-2011 13:08:39	22BetAqr	154	49564
22-AUG-2011 13:10:22	34AlpAqr	162	49564
22-AUG-2011 13:13:26	8EpsPeg	61	49564
22-AUG-2011 13:20:04	53EpsCyg	92	49564
22-AUG-2011 13:23:16	50AlpCyg	19	49564
22-AUG-2011 13:28:26	5AlpCep	89	49564
22-AUG-2011 13:32:18	11BetCas	74	49564
22-AUG-2011 13:34:31	27GamCas	76	49564
22-AUG-2011 13:48:09	13AlpAur	6	49564
22-AUG-2011 13:51:21	37TheAur	107	49564
22-AUG-2011 13:54:41	12BetTau	28	49564
22-AUG-2011 13:55:58	13MuGem	151	49564
22-AUG-2011 13:57:37	24GamGem	44	49564
22-AUG-2011 14:01:30	58AlpOri	14	49564
22-AUG-2011 14:03:04	24GamOri	27	49564
22-AUG-2011 14:05:02	46EpsOri	30	49564
22-AUG-2011 14:06:56	9AlpCMa	1	49564
22-AUG-2011 14:08:24	19BetOri	7	49564
22-AUG-2011 14:11:00	9BetLep	139	49564
22-AUG-2011 14:13:02	DSA1062	0	49564
22-AUG-2011 14:24:34	The1Eri	157	49565
22-AUG-2011 14:27:44	AlpEri	9	49565

22-AUG-2011 14:33:38	AlpPhe	84	49565
22-AUG-2011 14:35:45	BetGru	63	49565
22-AUG-2011 14:40:26	24AlpPsA	18	49565
22-AUG-2011 14:45:37	49DelCap	142	49565
22-AUG-2011 14:48:53	22BetAqr	154	49565
22-AUG-2011 14:50:36	34AlpAqr	162	49565
22-AUG-2011 14:53:39	8EpsPeg	61	49565
22-AUG-2011 15:00:18	53EpsCyg	92	49565
22-AUG-2011 15:03:30	50AlpCyg	19	49565
22-AUG-2011 15:08:40	5AlpCep	89	49565
22-AUG-2011 15:12:31	11BetCas	74	49565
22-AUG-2011 15:14:44	27GamCas	76	49565
22-AUG-2011 15:28:22	13AlpAur	6	49565
22-AUG-2011 15:31:36	37TheAur	107	49565
22-AUG-2011 15:34:55	12BetTau	28	49565
22-AUG-2011 15:36:13	13MuGem	151	49565
22-AUG-2011 15:37:52	24GamGem	44	49565
22-AUG-2011 15:41:45	58AlpOri	14	49565
22-AUG-2011 15:43:19	24GamOri	27	49565
22-AUG-2011 15:45:17	46EpsOri	30	49565
22-AUG-2011 15:47:10	9AlpCMa	1	49565
22-AUG-2011 15:48:39	19BetOri	7	49565
22-AUG-2011 15:51:15	9BetLep	139	49565
22-AUG-2011 15:53:17	DSA1062	0	49565
22-AUG-2011 16:04:50	The1Eri	157	49566
22-AUG-2011 16:07:59	AlpEri	9	49566
22-AUG-2011 16:13:53	AlpPhe	84	49566
22-AUG-2011 16:15:59	BetGru	63	49566
22-AUG-2011 16:20:41	24AlpPsA	18	49566
22-AUG-2011 16:25:51	49DelCap	142	49566
22-AUG-2011 16:29:07	22BetAqr	154	49566
22-AUG-2011 16:30:50	34AlpAqr	162	49566
22-AUG-2011 16:33:53	8EpsPeg	61	49566
22-AUG-2011 16:40:32	53EpsCyg	92	49566
22-AUG-2011 16:43:43	50AlpCyg	19	49566
22-AUG-2011 16:48:54	5AlpCep	89	49566
22-AUG-2011 16:52:45	11BetCas	74	49566
22-AUG-2011 16:54:57	27GamCas	76	49566
22-AUG-2011 17:08:36	13AlpAur	6	49566
22-AUG-2011 17:11:50	37TheAur	107	49566
22-AUG-2011 17:15:10	12BetTau	28	49566
22-AUG-2011 17:16:27	13MuGem	151	49566
22-AUG-2011 17:18:06	24GamGem	44	49566
22-AUG-2011 17:21:59	58AlpOri	14	49566
22-AUG-2011 17:25:32	46EpsOri	30	49566
22-AUG-2011 17:27:24	9AlpCMa	1	49566
22-AUG-2011 17:28:54	19BetOri	7	49566
22-AUG-2011 17:31:30	9BetLep	139	49566
22-AUG-2011 17:33:32	DSA1062	0	49566
22-AUG-2011 17:45:05	The1Eri	157	49567
22-AUG-2011 17:48:14	AlpEri	9	49567
22-AUG-2011 17:54:08	AlpPhe	84	49567
22-AUG-2011 17:56:13	BetGru	63	49567
22-AUG-2011 18:00:55	24AlpPsA	18	49567
22-AUG-2011 18:06:05	49DelCap	142	49567
22-AUG-2011 18:09:21	22BetAqr	154	49567
22-AUG-2011 18:11:03	34AlpAqr	162	49567
22-AUG-2011 18:14:07	8EpsPeg	61	49567
22-AUG-2011 18:20:46	53EpsCyg	92	49567

22-AUG-2011 18:23:57	50AlpCyg	19	49567
22-AUG-2011 18:29:08	5AlpCep	89	49567
22-AUG-2011 18:32:58	11BetCas	74	49567
22-AUG-2011 18:35:10	27GamCas	76	49567
22-AUG-2011 18:48:50	13AlpAur	6	49567
22-AUG-2011 18:52:04	37TheAur	107	49567
22-AUG-2011 18:55:24	12BetTau	28	49567
22-AUG-2011 18:56:41	13MuGem	151	49567
22-AUG-2011 18:58:20	24GamGem	44	49567
22-AUG-2011 19:02:14	58AlpOri	14	49567
22-AUG-2011 19:05:46	46EpsOri	30	49567
22-AUG-2011 19:07:39	9AlpCMa	1	49567
22-AUG-2011 19:09:09	19BetOri	7	49567
22-AUG-2011 19:11:45	9BetLep	139	49567
22-AUG-2011 19:13:47	DSA1062	0	49567
22-AUG-2011 19:25:20	The1Eri	157	49568
22-AUG-2011 19:28:28	AlpEri	9	49568
22-AUG-2011 19:34:22	AlpPhe	84	49568
22-AUG-2011 19:36:28	BetGru	63	49568
22-AUG-2011 19:41:09	24AlpPsA	18	49568
22-AUG-2011 19:46:19	49DelCap	142	49568
22-AUG-2011 19:49:35	22BetAqr	154	49568
22-AUG-2011 19:51:17	34AlpAqr	162	49568
22-AUG-2011 19:54:21	8EpsPeg	61	49568
22-AUG-2011 20:01:00	53EpsCyg	92	49568
22-AUG-2011 20:04:11	50AlpCyg	19	49568
22-AUG-2011 20:09:22	5AlpCep	89	49568
22-AUG-2011 20:13:11	11BetCas	74	49568
22-AUG-2011 20:15:24	27GamCas	76	49568
22-AUG-2011 20:29:04	13AlpAur	6	49568
22-AUG-2011 20:32:18	37TheAur	107	49568
22-AUG-2011 20:36:55	13MuGem	151	49568
22-AUG-2011 20:38:34	24GamGem	44	49568
22-AUG-2011 20:42:28	58AlpOri	14	49568
22-AUG-2011 20:46:01	46EpsOri	30	49568
22-AUG-2011 20:47:53	9AlpCMa	1	49568
22-AUG-2011 20:49:24	19BetOri	7	49568
22-AUG-2011 20:52:00	9BetLep	139	49568
22-AUG-2011 20:54:02	DSA1062	0	49568
22-AUG-2011 21:05:35	The1Eri	157	49569
22-AUG-2011 21:08:43	AlpEri	9	49569
22-AUG-2011 21:14:37	AlpPhe	84	49569

#### 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_1PNPDE20110822_000120_000000353105_00404_49556_7428.N1	22-AUG-2011 00:01:20	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	49556	No
2	GOM_TRA_1PNPDE20110822_000632_000000373105_00404_49556_7429.N1	22-AUG-2011 00:06:32	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	49556	No
3	GOM_TRA_1PNPDE20110822_001028_000000483105_00404_49556_7430.N1	22-AUG-2011 00:10:28	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	49556	No
4	GOM_TRA_1PNPDE20110822_001241_000000293105_00404_49556_7431.N1	22-AUG-2011 00:12:41	Twilight	29.000	76	27Gam Cas	2.3000	30000.	58	49556	No
5	GOM_TRA_1PNPDE20110822_002614_000000543105_00404_49556_7432.N1	22-AUG-2011 00:26:14	Bright	53.500	6	13Alp Aur	0.080000	3400.0	107	49556	No
6	GOM_TRA_1PNPDE20110822_002925_000000423105_00404_49556_7433.N1	22-AUG-2011 00:29:25	Bright	42.000	107	37The Aur	2.6490	11000.	84	49556	No
7	GOM_TRA_1PNPDE20110822_003243_000000563105_00404_49556_7434.N1	22-AUG-2011 00:32:43	Twilight	56.000	28	12Bet Tau	1.6500	15200.	112	49556	No
8	GOM_TRA_1PNPDE20110822_003539_000000443105_00404_49556_7435.N1	22-AUG-2011 00:35:39	Twilight	43.500	44	24Gam Gem	1.9280	11000.	87	49556	No
9	GOM_TRA_1PNPDE20110822_003929_000000663105_00404_49556_7436.N1	22-AUG-2011 00:39:29	Dark	66.000	14	58Alp Ori	0.87000	3000.0	132	49556	No
10	GOM_TRA_1PNPDE20110822_004102_000000563105_00404_49556_7437.N1	22-AUG-2011 00:41:02	Dark	55.500	27	24Gam Ori	1.6360	26000.	111	49556	No
11	GOM_TRA_1PNPDE20110822_004300_000000533105_00404_49556_7438.N1	22-AUG-2011 00:43:00	Dark	53.000	30	46Eps Ori	1.6940	30000.	106	49556	No
12	GOM_TRA_1PNPDE20110822_004428_000000483105_00404_49556_7447.N1	22-AUG-2011 00:44:28	Dark	48.000	125	44lot Ori	2.7700	30000.	96	49556	No







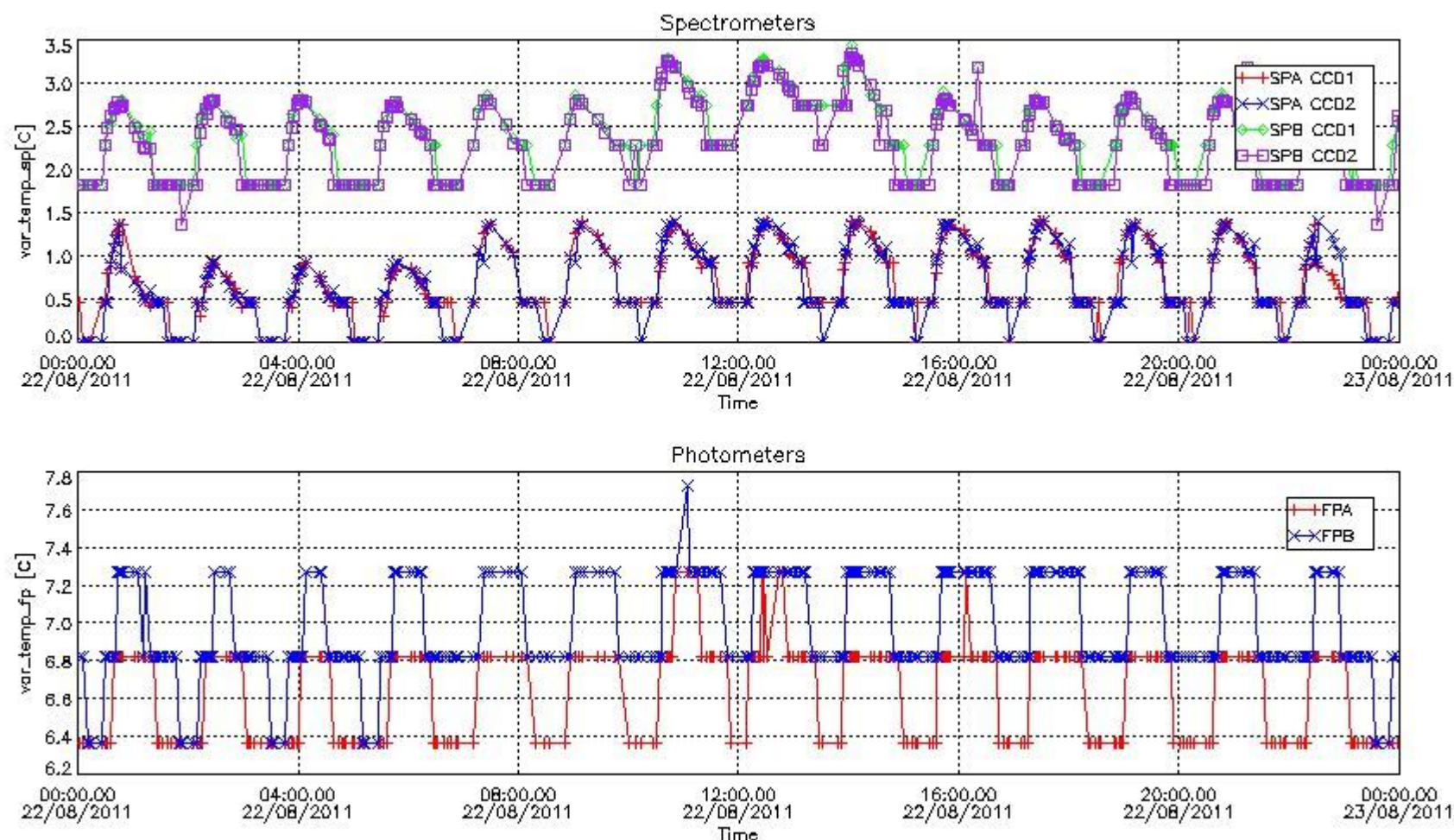






308	GOM_TRA_1PNPDE20110822_232124_000000383105_00418_49570_7770.N1	22-AUG-2011 23:21:24	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	49570	No
309	GOM_TRA_1PNPDE20110822_232435_000000353105_00418_49570_7771.N1	22-AUG-2011 23:24:35	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	49570	No
310	GOM_TRA_1PNPDE20110822_232945_000000383105_00418_49570_7772.N1	22-AUG-2011 23:29:45	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	49570	No
311	GOM_TRA_1PNPDE20110822_233333_000000463105_00418_49570_7773.N1	22-AUG-2011 23:33:33	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	49570	No
312	GOM_TRA_1PNPDE20110822_233546_000000403105_00418_49570_7774.N1	22-AUG-2011 23:35:46	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	49570	No
313	GOM_TRA_1PNPDE20110822_234927_000000533105_00418_49570_7775.N1	22-AUG-2011 23:49:27	Bright	52.500	6	13Alp Aur	0.080000	3400.0	105	49570	No
314	GOM_TRA_1PNPDE20110822_235241_000000433105_00418_49570_7776.N1	22-AUG-2011 23:52:41	Bright	42.500	107	37The Aur	2.6490	11000.	85	49570	No
315	GOM_TRA_1PNPDE20110822_235719_000000503105_00418_49570_7777.N1	22-AUG-2011 23:57:19	Twilight_and_stray	49.500	151	13Mu Gem	2.8900	3000.0	99	49570	No
316	GOM_TRA_1PNPDE20110822_235859_000000453105_00418_49570_7778.N1	22-AUG-2011 23:58:59	Twilight_and_stray	44.500	44	24Gam Gem	1.9280	11000.	89	49570	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).

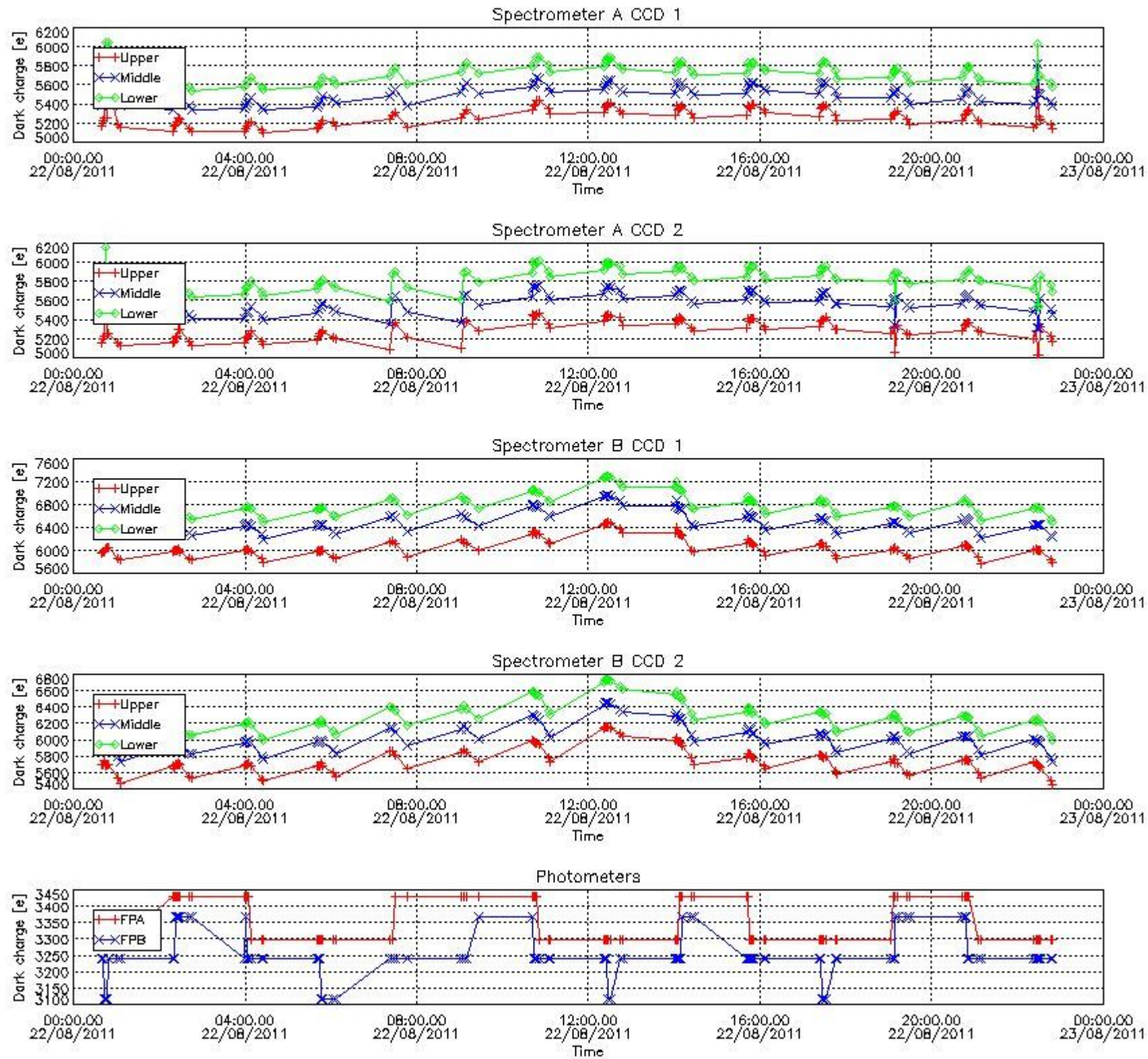
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110822_211433_000000613105_00417_49569_7719.N1	DC map with no T dep.

GOM_TRA_1PNPDE20110822_211638_000000473105_00417_49569_7720.N1	DC map used
GOM_TRA_1PNPDE20110822_212119_000000503105_00417_49569_7721.N1	DC map used
GOM_TRA_1PNPDE20110822_212629_000000433105_00417_49569_7722.N1	DC map used
GOM_TRA_1PNPDE20110822_212945_000000403105_00417_49569_7723.N1	DC map used
GOM_TRA_1PNPDE20110822_213127_000000443105_00417_49569_7724.N1	DC map used
GOM_TRA_1PNPDE20110822_213430_000000413105_00417_49569_7725.N1	DC map used
GOM_TRA_1PNPDE20110822_214110_000000373105_00417_49569_7726.N1	DC map used
GOM_TRA_1PNPDE20110822_214421_000000363105_00417_49569_7727.N1	DC map used
GOM_TRA_1PNPDE20110822_214931_000000383105_00417_49569_7728.N1	DC map used
GOM_TRA_1PNPDE20110822_215320_000000473105_00417_49569_7729.N1	DC map used
GOM_TRA_1PNPDE20110822_215533_000000383105_00417_49569_7730.N1	DC map used
GOM_TRA_1PNPDE20110822_220913_000000513105_00417_49569_7731.N1	DC map used
GOM_TRA_1PNPDE20110822_221227_000000433105_00417_49569_7732.N1	DC map used
GOM_TRA_1PNPDE20110822_221705_000000523105_00417_49569_7733.N1	DC map used
GOM_TRA_1PNPDE20110822_221844_000000483105_00417_49569_7734.N1	DC map used
GOM_TRA_1PNPDE20110822_222238_000000603105_00417_49569_7735.N1	DC map used
GOM_TRA_1PNPDE20110822_222612_000000553105_00417_49569_7736.N1	DC map used

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



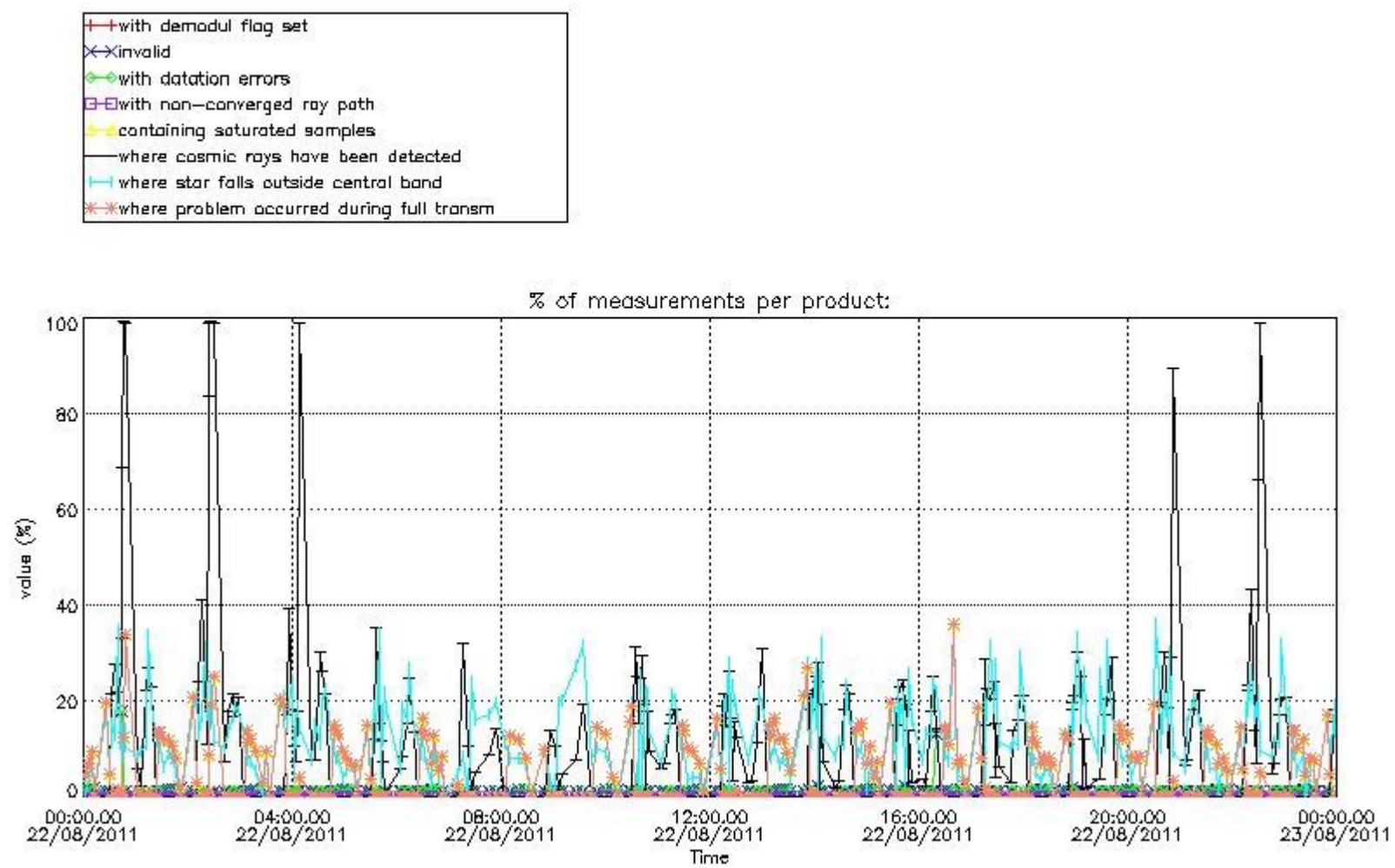
## 5. Demodulation flag and quality information monitoring

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.

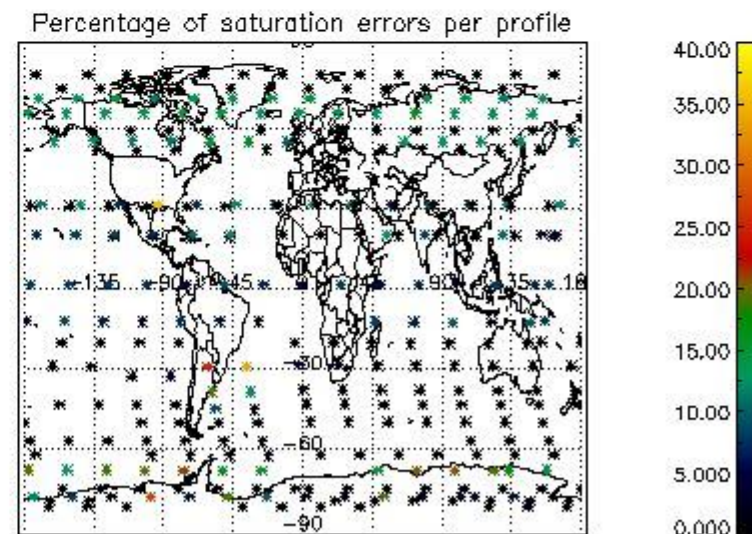
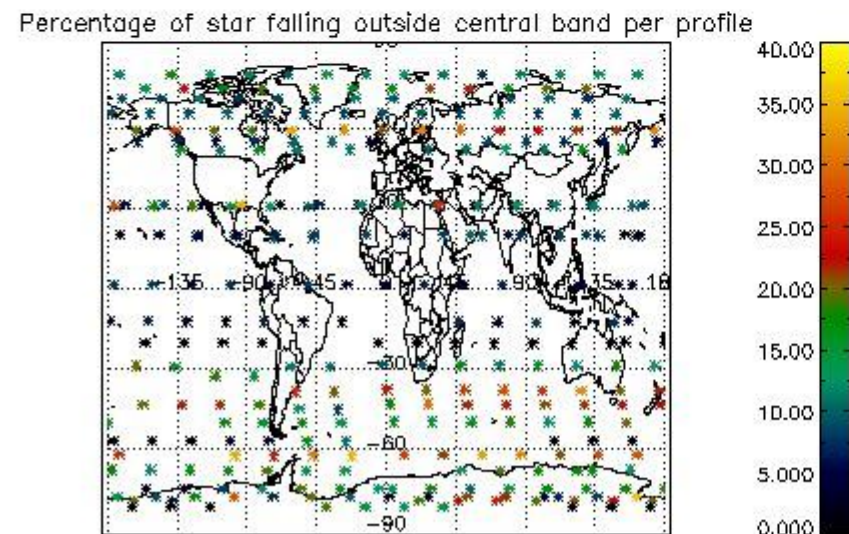
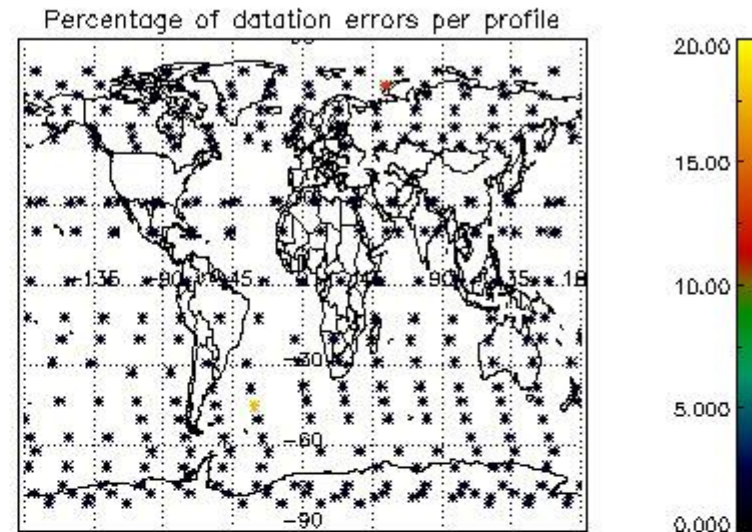
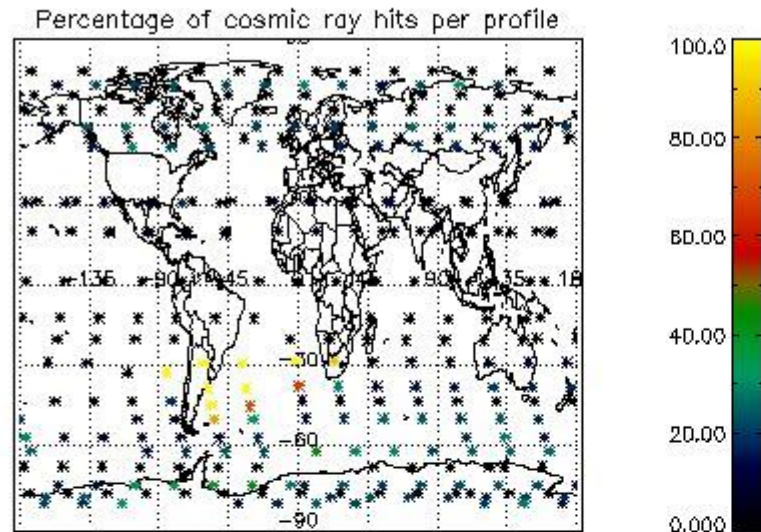
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	50.1587 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	44.1270 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



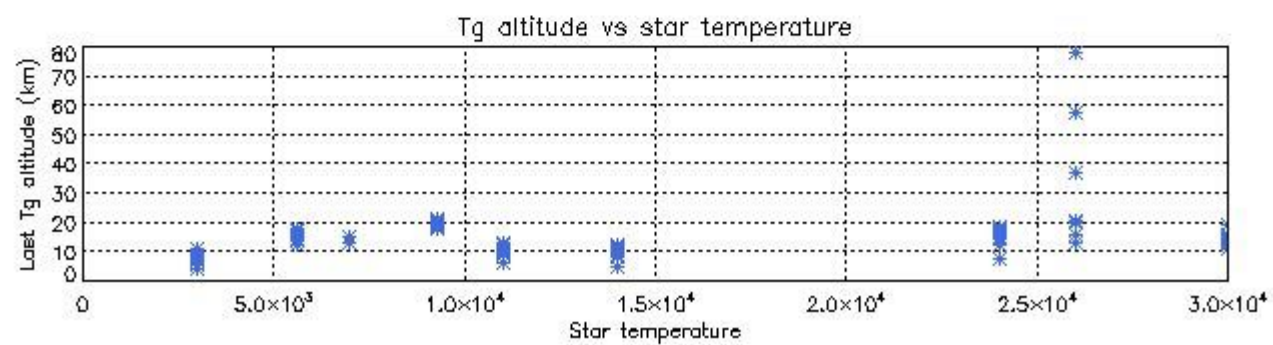
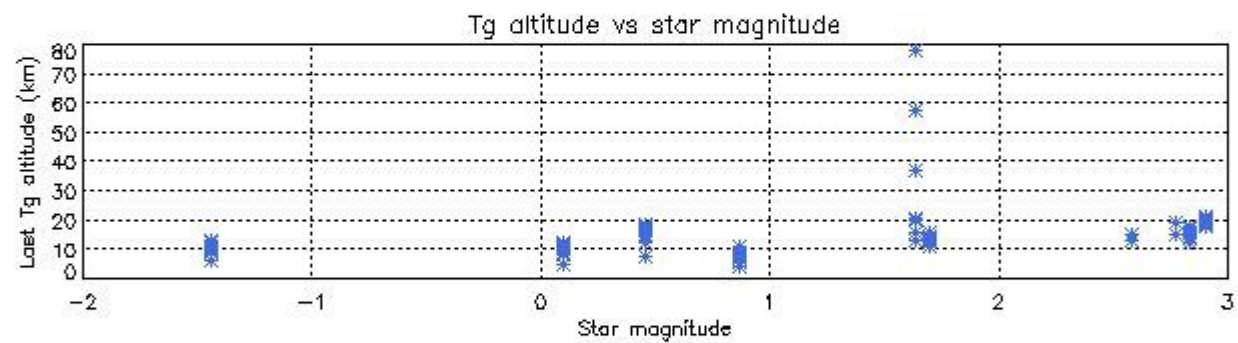
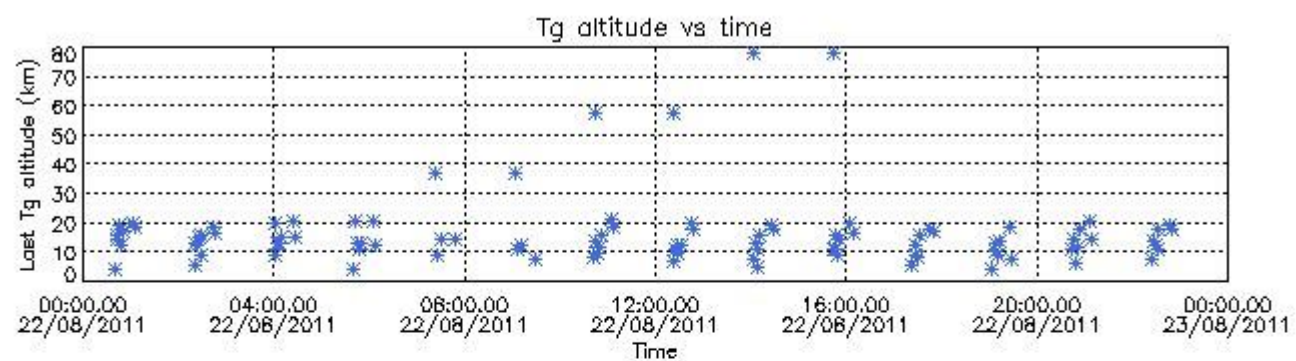
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.978	19.812	NaN
St. deviation:	12.183	6.4079	NaN
Maximum:	77.983	49.390	NaN
Minimum:	3.9971	3.8946	NaN
Number of data:	98.000	139.00	NaN

### 6.2 Plot for DARK limb products

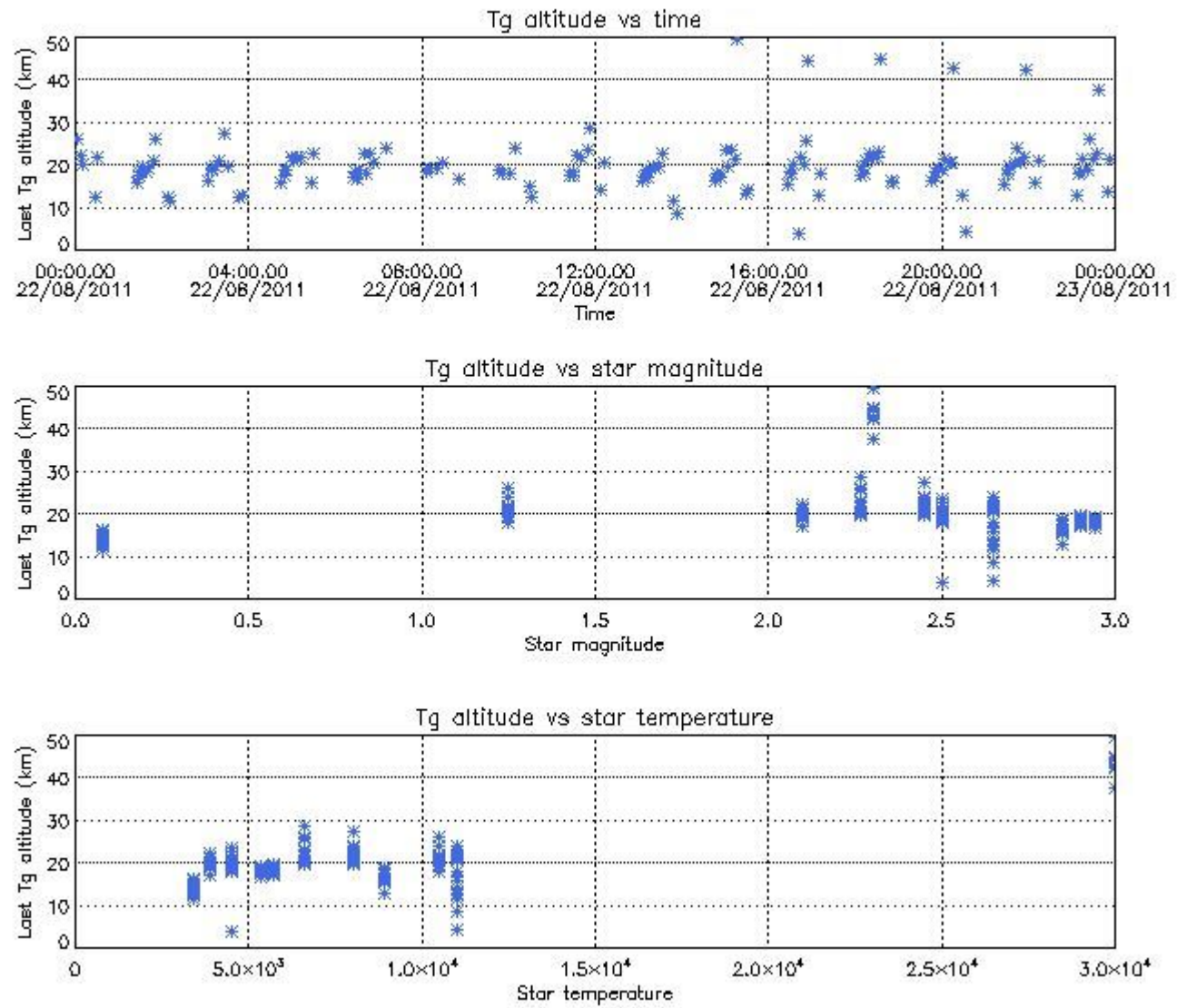
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

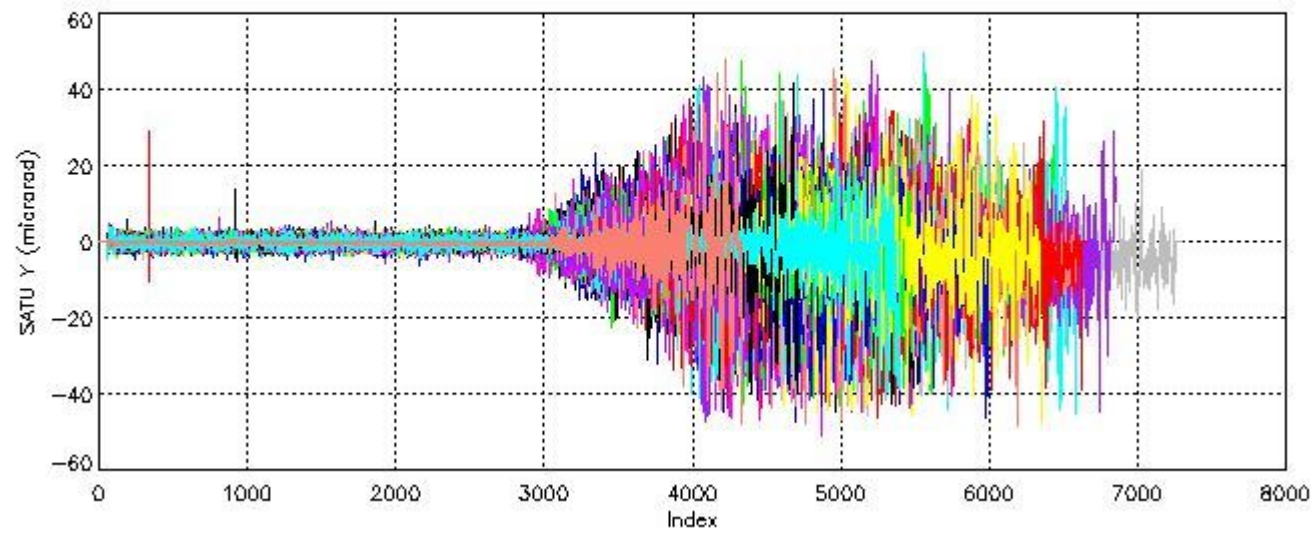
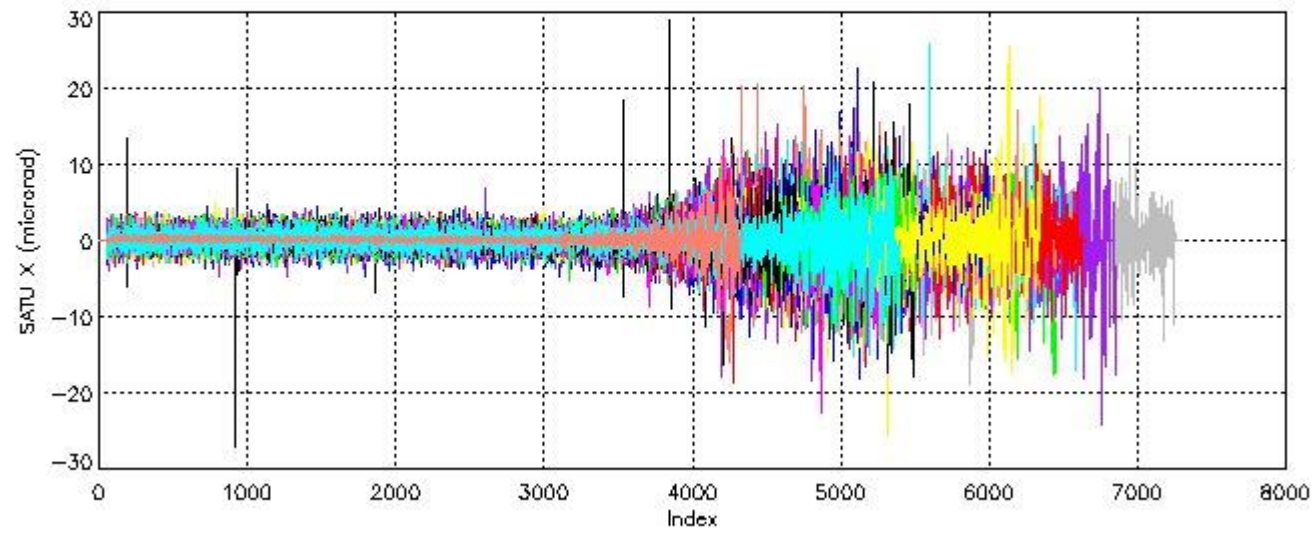


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21703	-0.23547	0.21286	-0.24970
St. deviation:	0.45130	0.51750	0.72586	0.79151
Maximum:	13.500	29.200	7.4000	6.7000
Minimum:	-27.000	-10.300	-22.200	-5.0000

Number of data:	1.0965E+05	1.0965E+05	1.3480E+05	1.3480E+05
90Percentile:	0.80000	0.40000	1.2000	0.70000

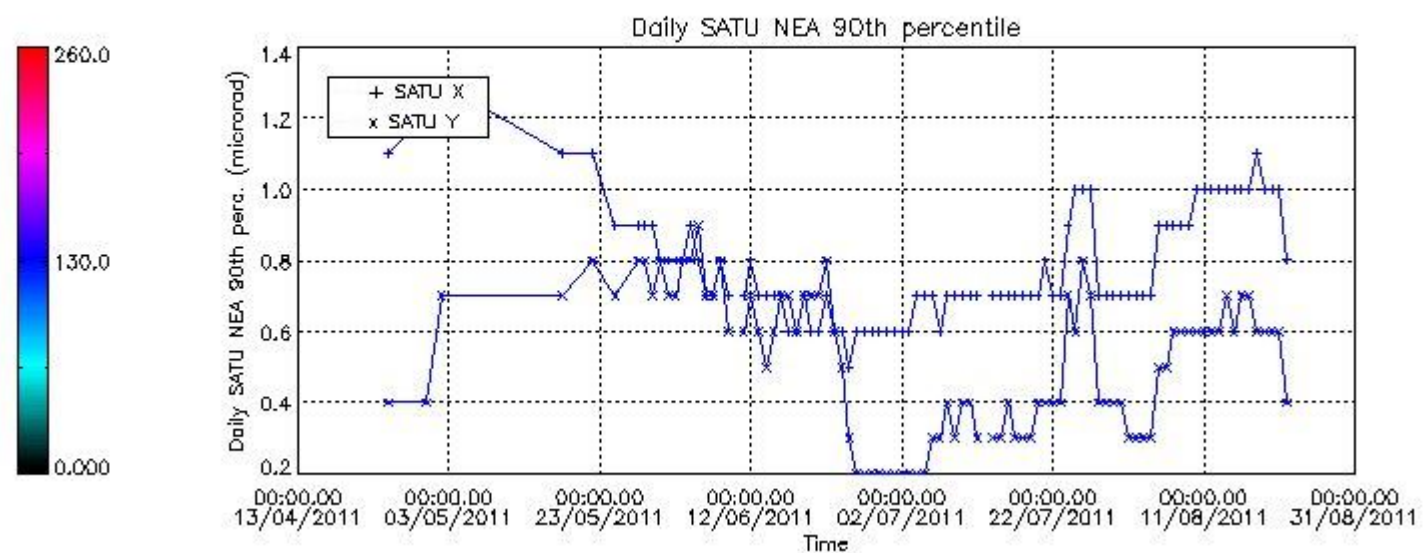
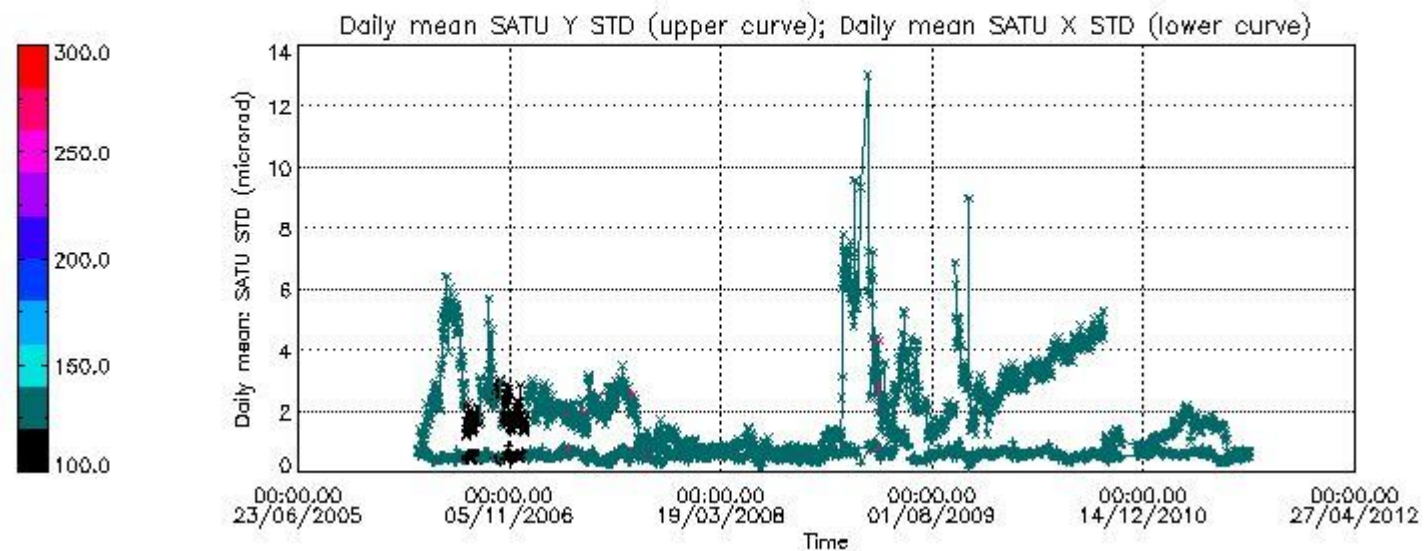
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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

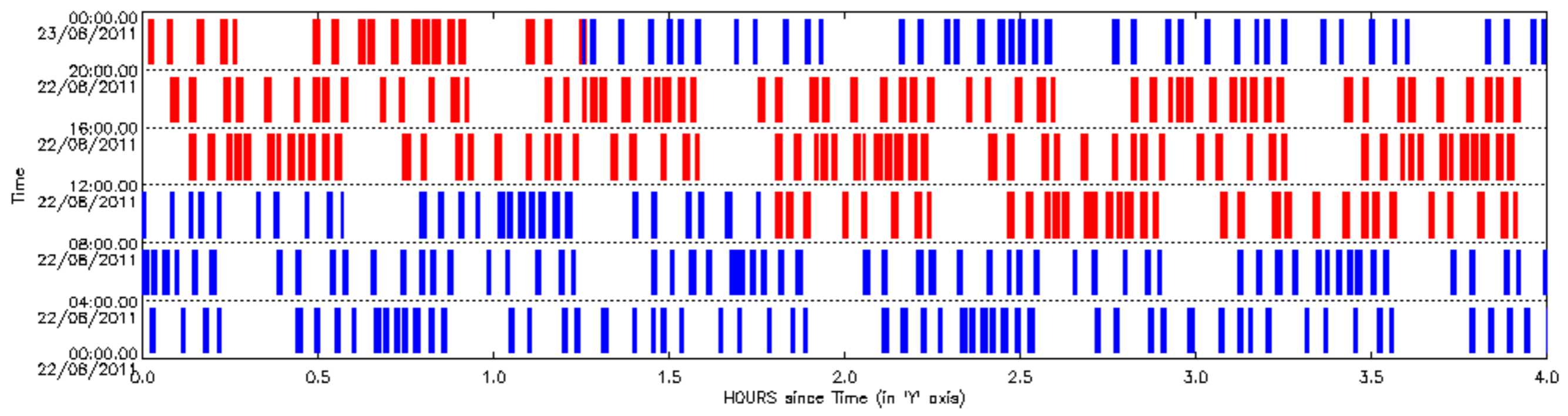
Lower curve: STD of SATU X axis

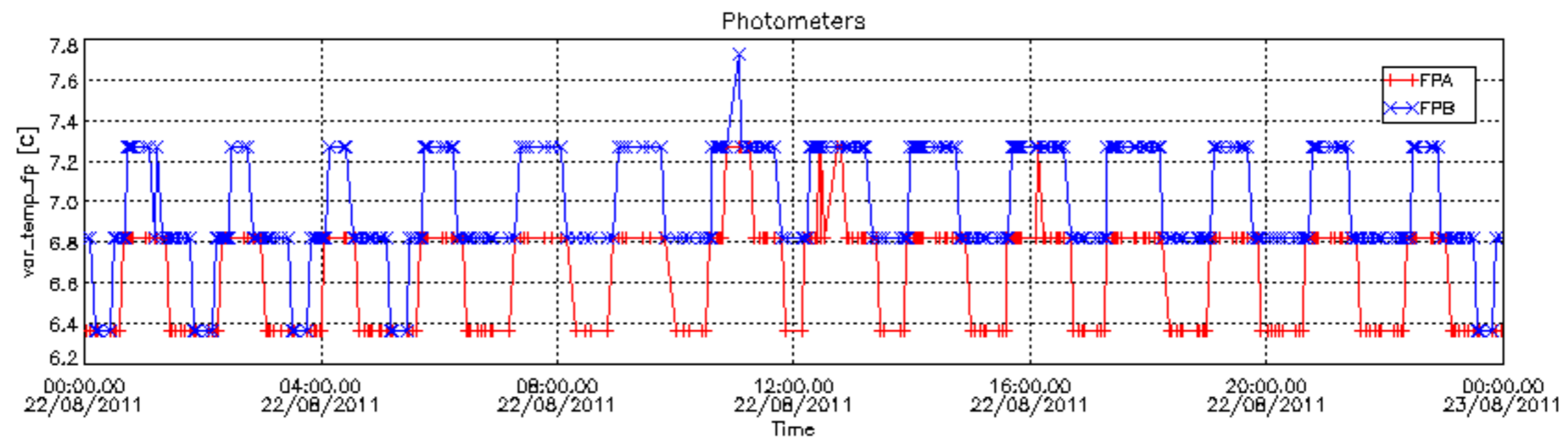
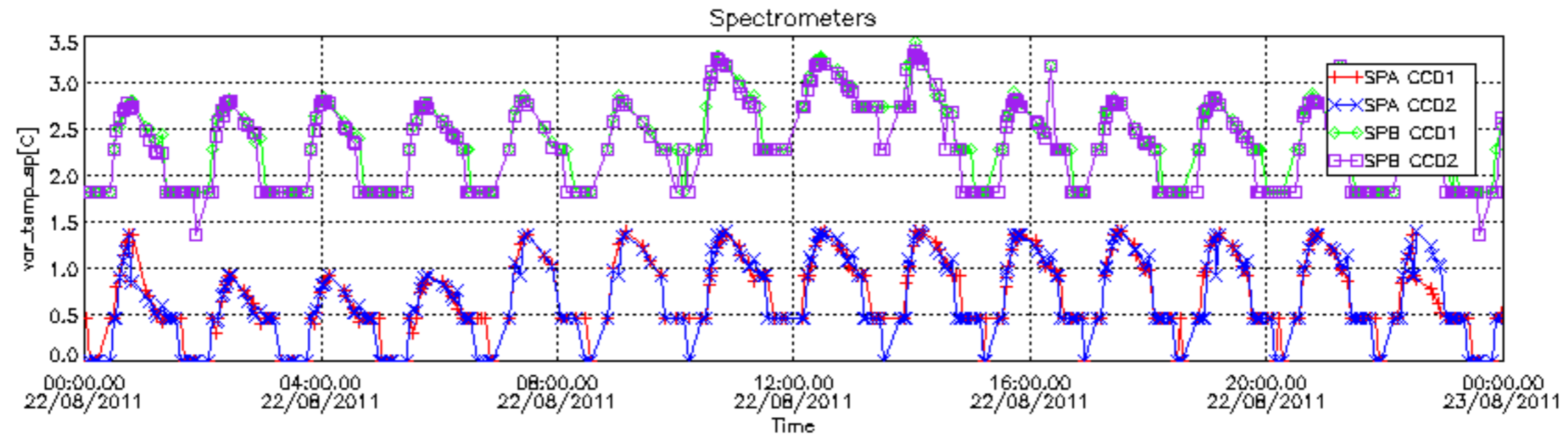


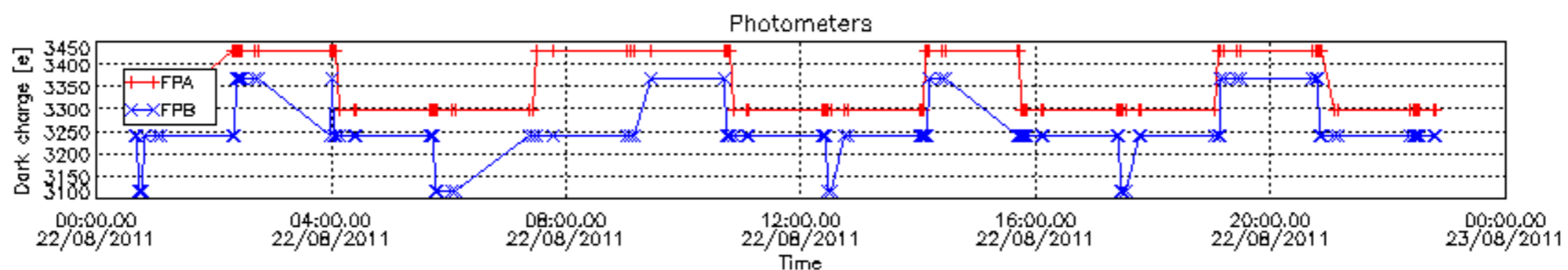
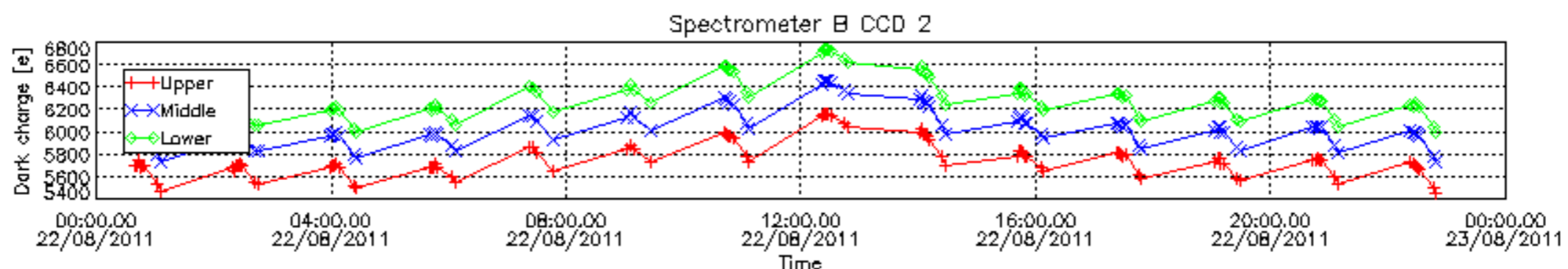
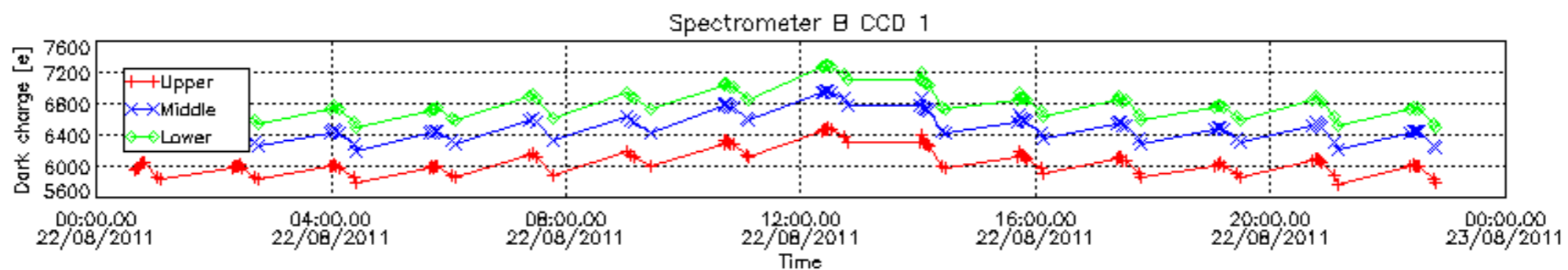
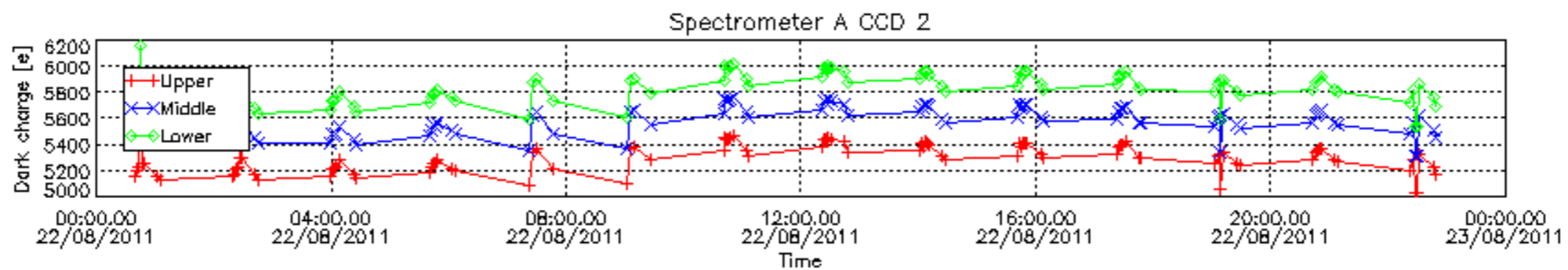
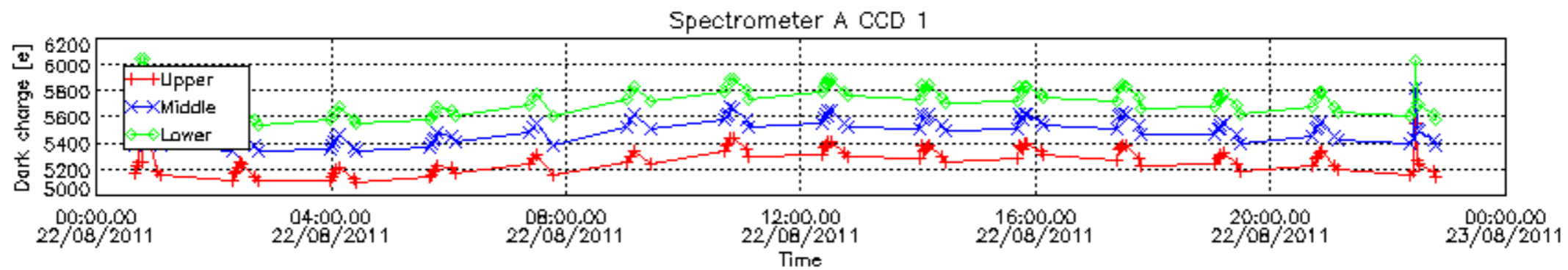
### 8. Auxiliary Data Files used for the production reported in section 2.4

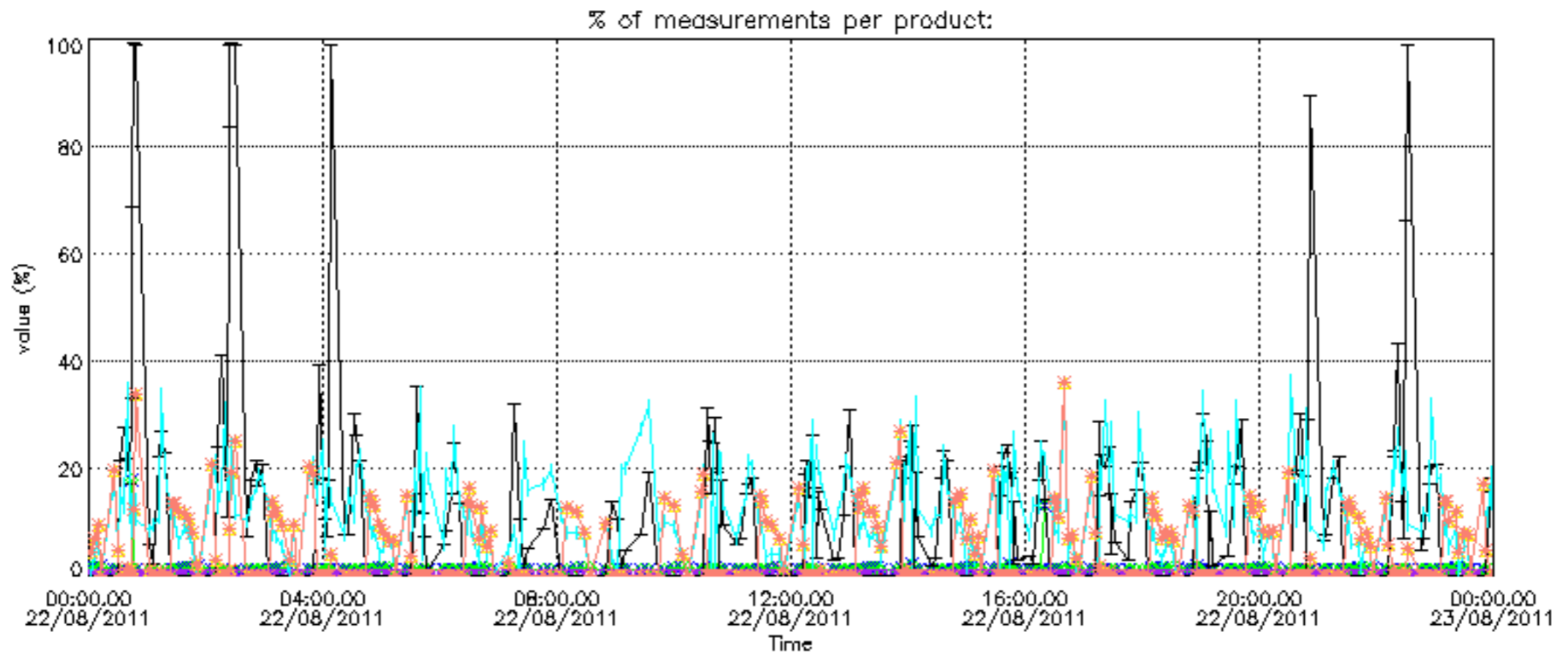
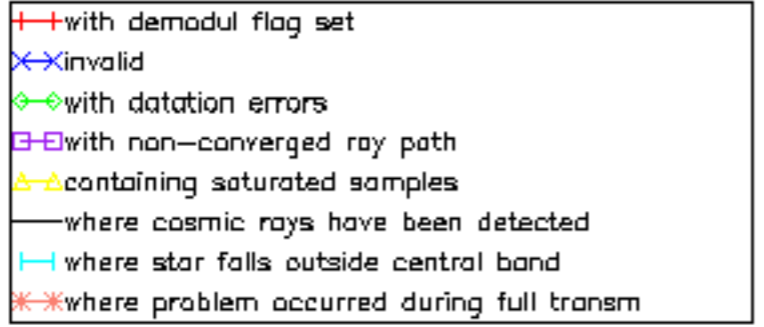
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-AUG-2011 00:01:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110817_075307_20110816_000000_20500101_000000	1	22-AUG-2011 00:01:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	22-AUG-2011 00:01:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-AUG-2011 00:01:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-AUG-2011 00:01:20
ECMWF_FILE	AUX_ECF_AXNECM20110821_062115_20110821_210000_20110822_090000	1	22-AUG-2011 00:01:20
ECMWF_FILE	AUX_ECF_AXNECM20110821_181632_20110822_030000_20110822_150000	52	22-AUG-2011 03:46:41
ECMWF_FILE	AUX_ECA_AXNECM20110822_062610_20110821_210000_20110822_090000	75	22-AUG-2011 05:26:55
ECMWF_FILE	AUX_ECF_AXNECM20110821_062115_20110821_210000_20110822_090000	98	22-AUG-2011 07:10:21
ECMWF_FILE	AUX_ECF_AXNECM20110821_181632_20110822_030000_20110822_150000	106	22-AUG-2011 08:09:36
ECMWF_FILE	AUX_ECF_AXNECM20110822_062610_20110822_090000_20110822_210000	118	22-AUG-2011 09:49:50
ECMWF_FILE	AUX_ECF_AXNECM20110822_062611_20110822_150000_20110823_030000	209	22-AUG-2011 16:20:36
ECMWF_FILE	AUX_ECA_AXNECM20110824_062114_20110822_150000_20110823_030000	233	22-AUG-2011 18:00:51
ECMWF_FILE	AUX_ECF_AXNECM20110822_062611_20110822_210000_20110823_090000	278	22-AUG-2011 21:14:33
OPTIONAL_ECMWF_FILE	MISSING	1	22-AUG-2011 00:01:20
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110821_102115_20110820_185257_20110830_210643	1	22-AUG-2011 00:01:20
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110819_102112_20110818_182611_20110828_203958	98	22-AUG-2011 07:10:21
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110821_102115_20110820_185257_20110830_210643	106	22-AUG-2011 08:09:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110822_102608_20110821_195626_20110831_202958	118	22-AUG-2011 09:49:50
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ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110822_102608_20110821_195626_20110831_202958	255	22-AUG-2011 19:34:18
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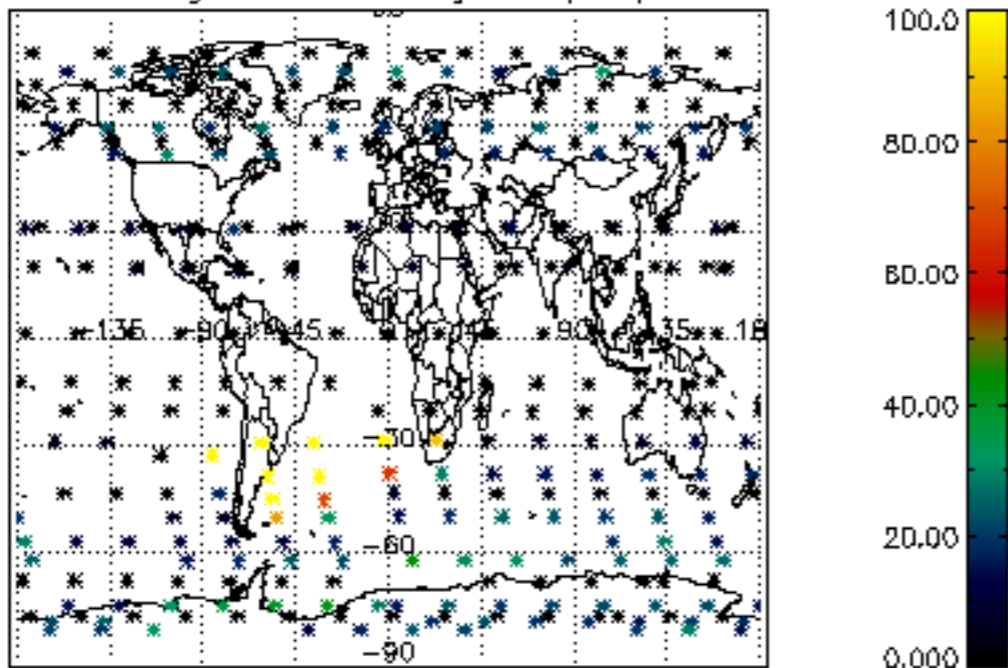




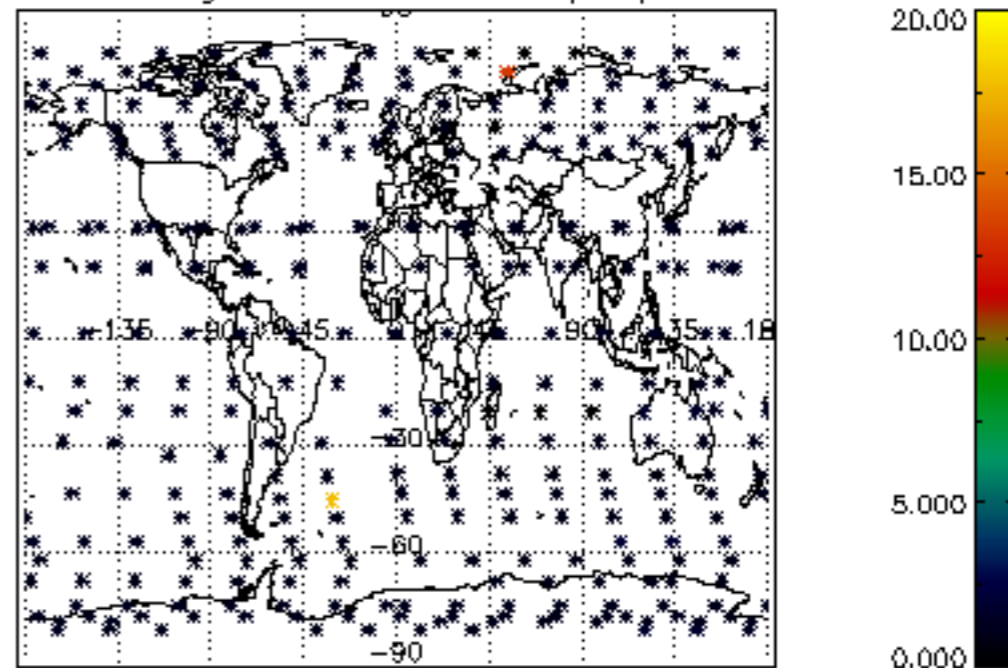




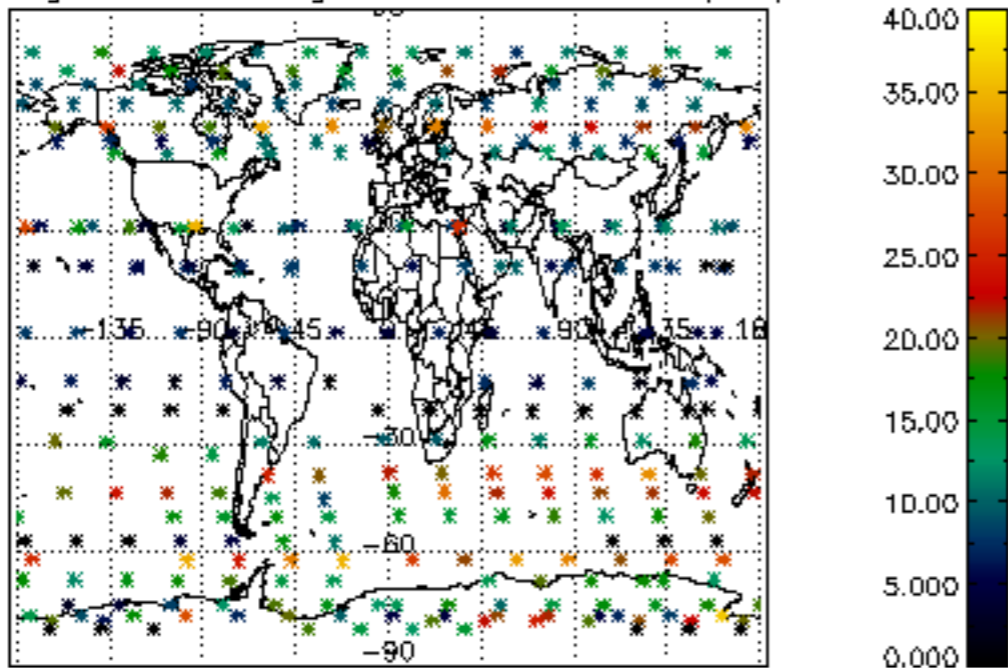
Percentage of cosmic ray hits per profile



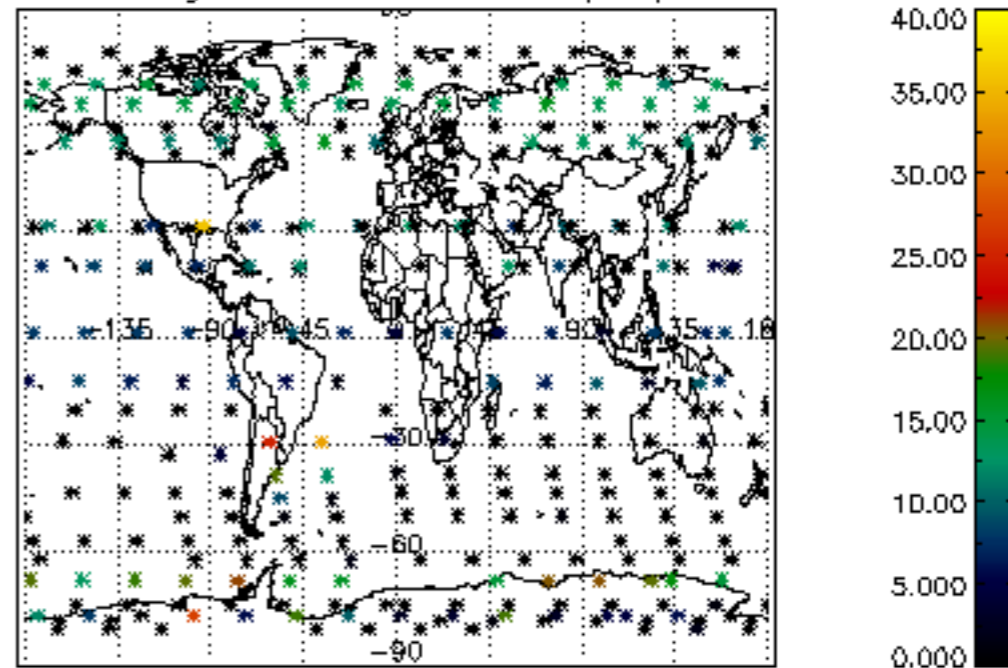
Percentage of datation errors per profile



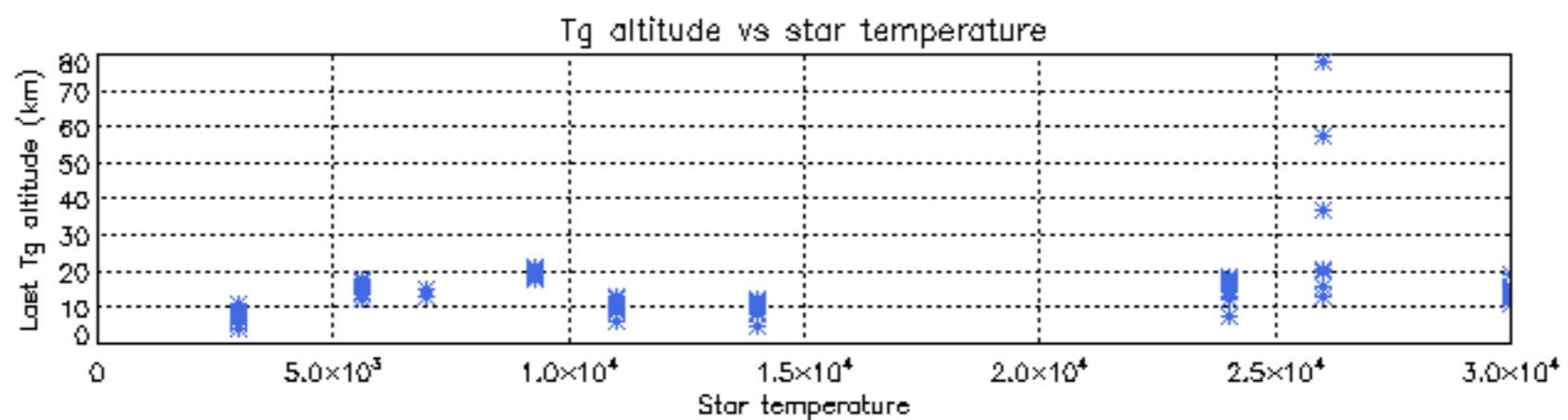
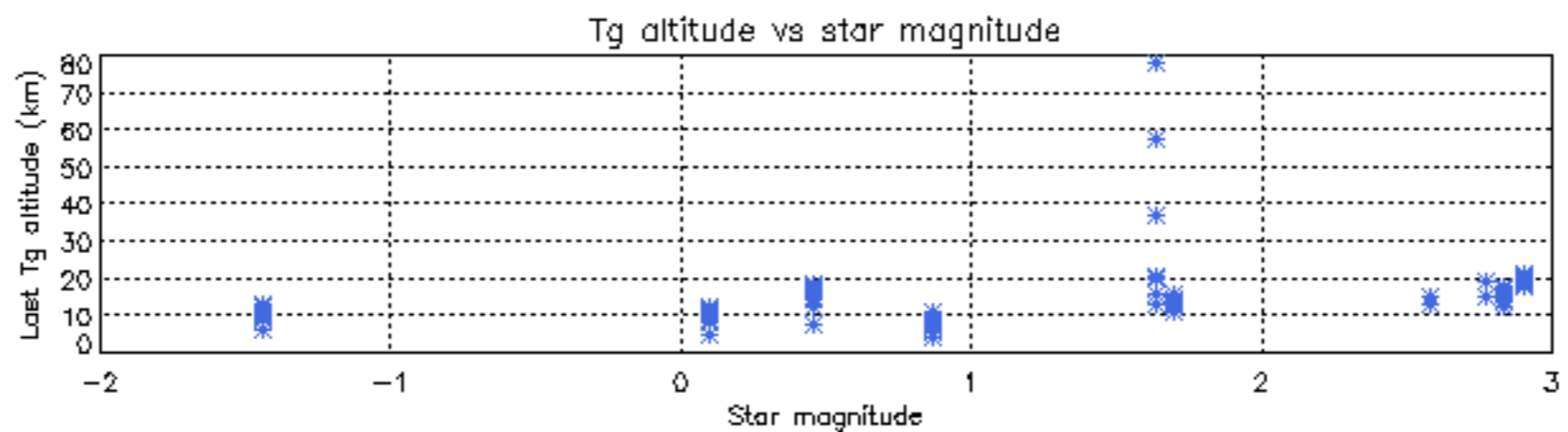
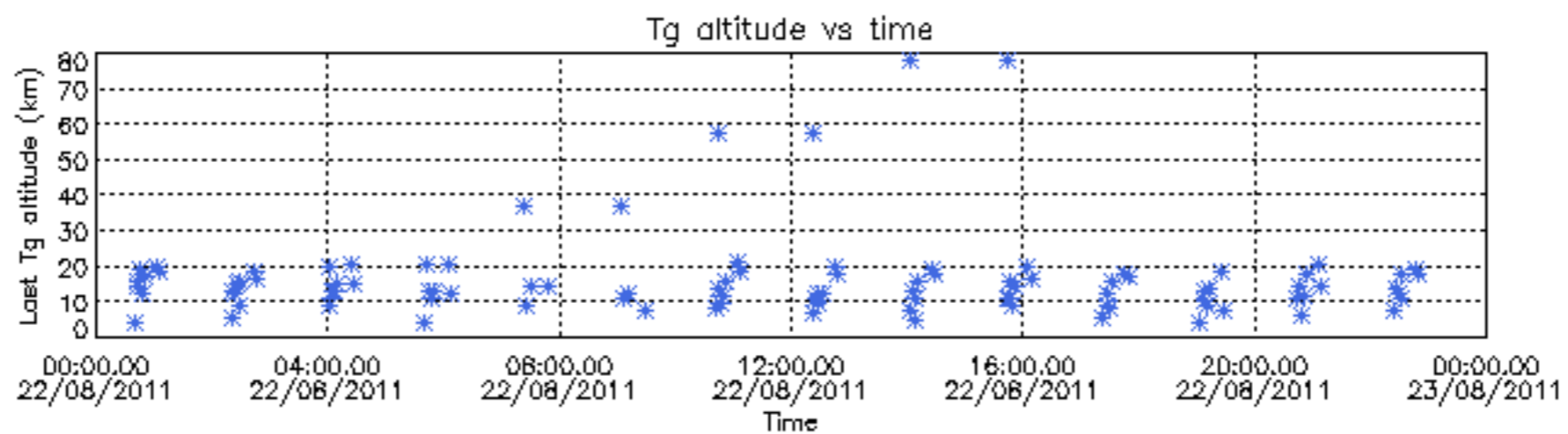
Percentage of star falling outside central band per profile



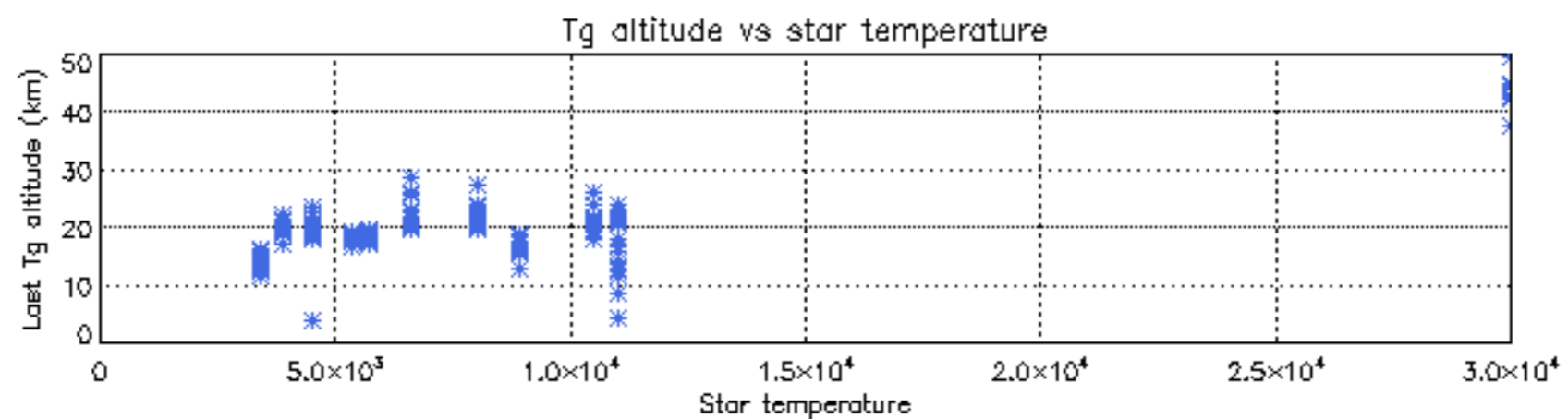
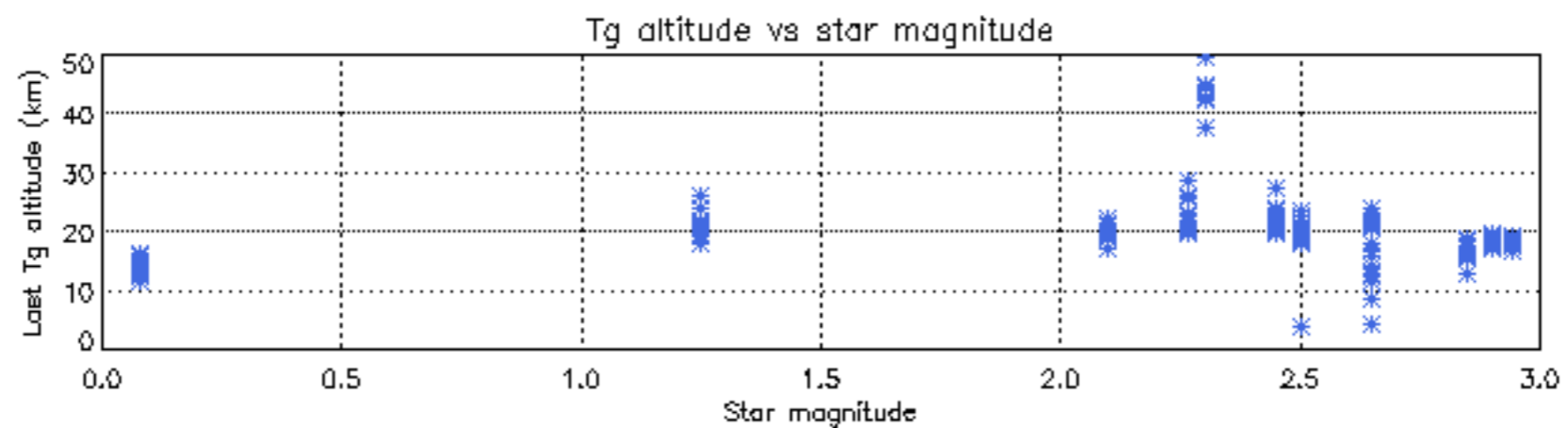
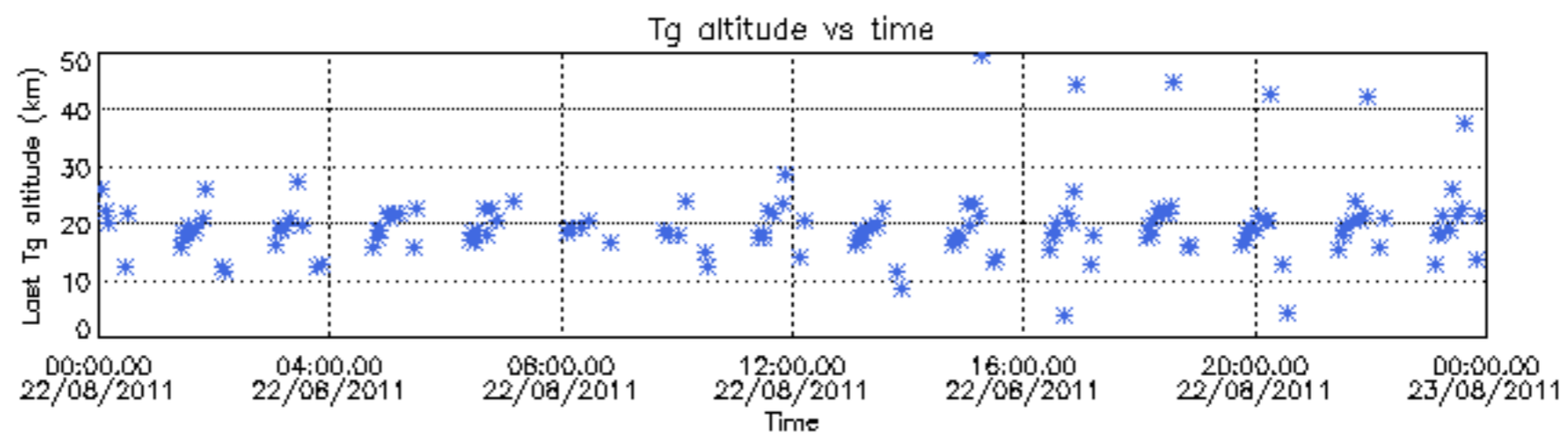
Percentage of saturation errors per profile

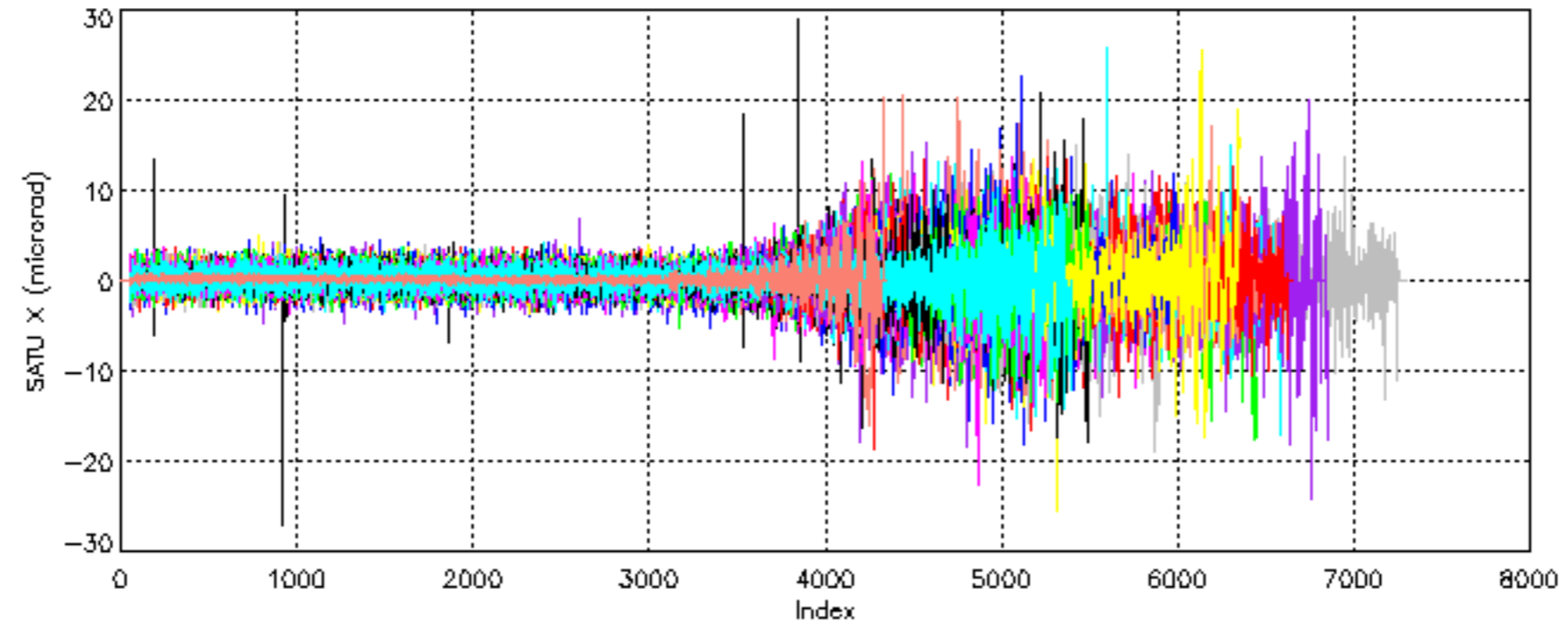


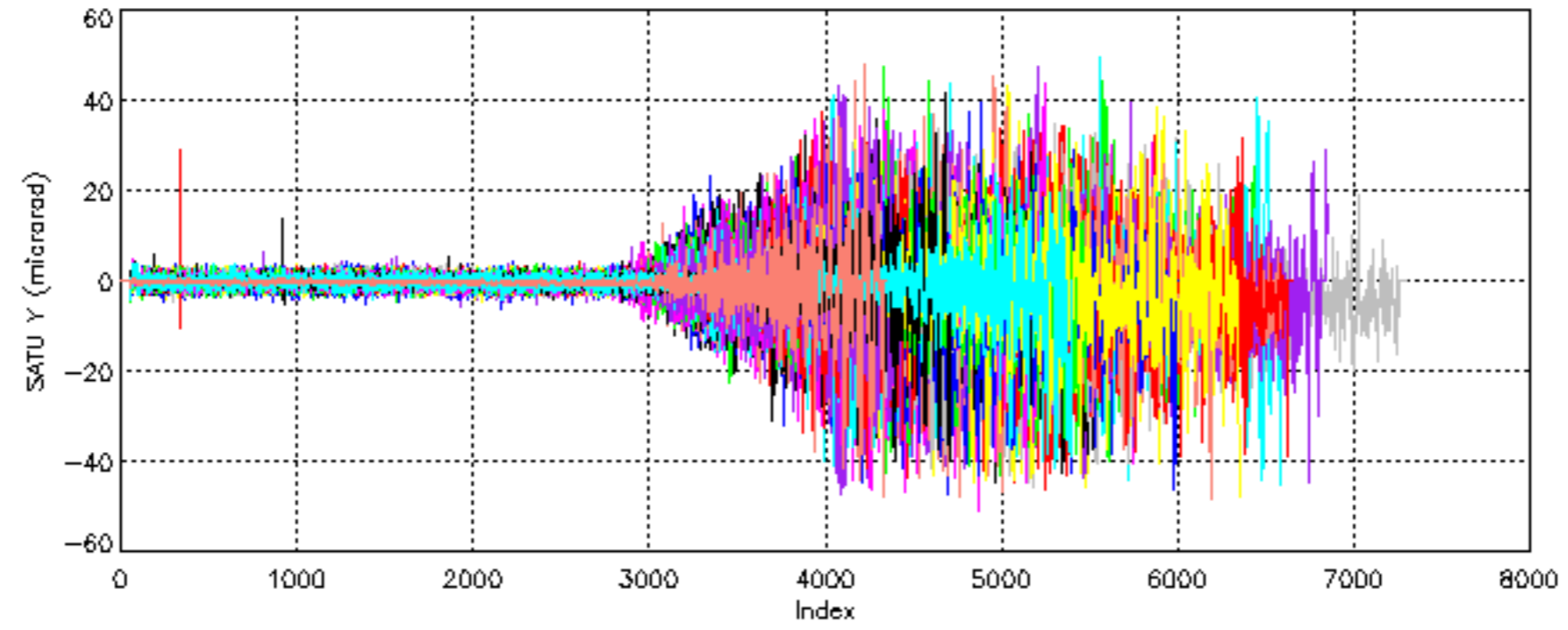
Tangent altitude at which the star is lost

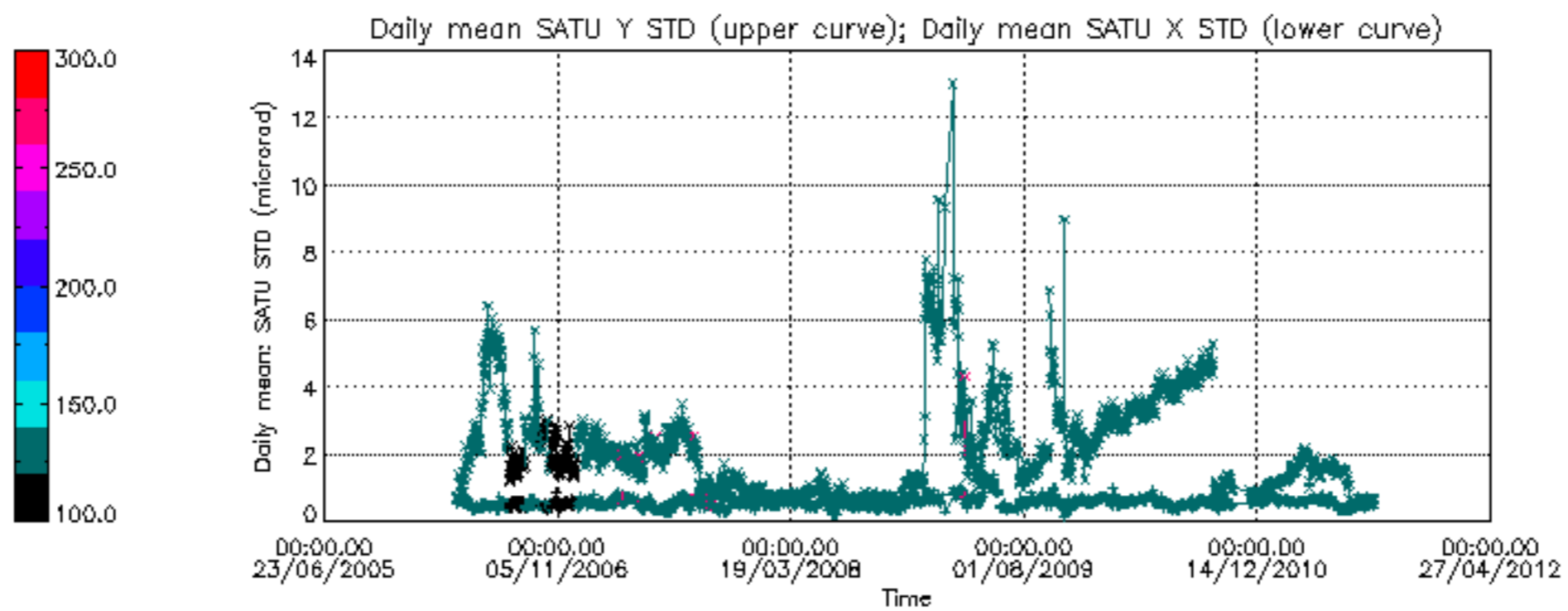


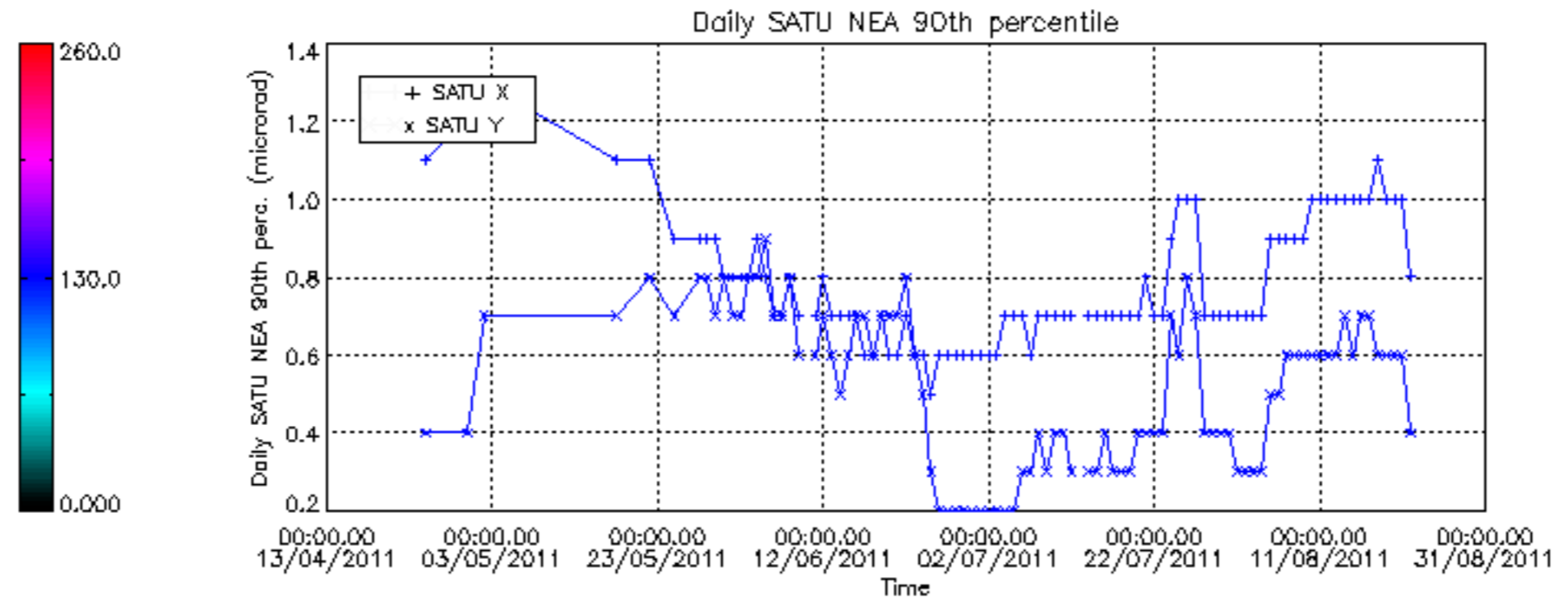
Tangent altitude at which the star is lost











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16; 4619.4; 01-AUG-2011 01:43:47; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;49255
17; 4770.3; 01-AUG-2011 01:46:17; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;49255
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9; 3283.0; 15-AUG-2011 12:49:57; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;49463  
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5; 2487.4; 15-AUG-2011 14:16:55; Bright; 40.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 80; 0;49464  
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7; 2678.9; 15-AUG-2011 14:20:07; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;49464  
8; 2998.4; 15-AUG-2011 14:25:26; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;49464  
9; 3282.3; 15-AUG-2011 14:30:10; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;49464  
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14; 4700.3; 15-AUG-2011 14:53:48; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;49464  
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23; 6468.8; 15-AUG-2011 18:43:45; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;49467
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4; 1787.8; 15-AUG-2011 19:05:58; Bright; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;49467
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11; 3279.9; 15-AUG-2011 19:30:50; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;49467
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19; 4346.6; 17-AUG-2011 00:12:34; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;49484
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 18; 3254.8; 18-AUG-2011 02:38:06; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;49500

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 8; -702.0; 18-AUG-2011 03:12:23; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;49500  
 9; -594.8; 18-AUG-2011 03:14:10; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;49500  
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 13; 825.9; 18-AUG-2011 03:37:51; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;49501  
 14; 1021.3; 18-AUG-2011 03:41:06; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;49501  
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 22; 2672.6; 18-AUG-2011 04:08:38; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;49501  
 23; 2989.3; 18-AUG-2011 04:13:54; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;49501  
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 4;-1304.4; 18-AUG-2011 04:42:35; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;49501  
 5;-1086.8; 18-AUG-2011 04:46:12; Dark ; 62.0; 14; 58Alp Ori ; 0.87; 3000;occ; 124; 0;49501  
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 10; -416.3; 18-AUG-2011 04:57:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49501  
 11; 253.8; 18-AUG-2011 05:08:33; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;49502  
 12; 478.4; 18-AUG-2011 05:12:18; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;49502  
 13; 826.7; 18-AUG-2011 05:18:06; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;49502  
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 15; 1259.2; 18-AUG-2011 05:25:18; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;49502  
 16; 1585.6; 18-AUG-2011 05:30:45; Bright; 44.0; 142; 49Del Cap ; 2.85; 8900;occ; 88; 0;49502  
 17; 1787.6; 18-AUG-2011 05:34:07; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;49502  
 18; 1900.9; 18-AUG-2011 05:36:00; Bright; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;49502  
 19; 2088.5; 18-AUG-2011 05:39:08; Bright; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;49502  
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 21; 2579.5; 18-AUG-2011 05:47:19; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;49502  
 22; 2672.5; 18-AUG-2011 05:48:52; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;49502  
 23; 2989.1; 18-AUG-2011 05:54:08; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;49502

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2; 1262.6; 18-AUG-2011 20:27:28; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;49511
3; 1586.6; 18-AUG-2011 20:32:52; Bright; 58.0; 142; 49Del Cap ; 2.85; 8900;occ; 116; 0;49511
4; 1787.4; 18-AUG-2011 20:36:13; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;49511
5; 1899.2; 18-AUG-2011 20:38:04; Bright; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;49511
6; 2086.1; 18-AUG-2011 20:41:11; Bright; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;49511
7; 2479.7; 18-AUG-2011 20:47:45; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;49511
8; 2671.1; 18-AUG-2011 20:50:56; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;49511
9; 2987.0; 18-AUG-2011 20:56:12; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;49511
10; 3246.5; 18-AUG-2011 21:00:32; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;49511
11; 4165.8; 18-AUG-2011 21:15:51; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;49511
12; 4348.4; 18-AUG-2011 21:18:53; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;49511
13; 4539.7; 18-AUG-2011 21:22:05; Dark ; 56.0; 28; 12Bet Tau ; 1.65; 15200;occ; 112; 0;49511
14; 4712.3; 18-AUG-2011 21:24:57; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;49511
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16; 5132.3; 18-AUG-2011 21:31:57; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;49511
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5; 265.9; 18-AUG-2011 21:51:05; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;49512
6; 485.2; 18-AUG-2011 21:54:44; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;49512
7; 834.5; 18-AUG-2011 22:00:34; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;49512
8; 979.1; 18-AUG-2011 22:02:58; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;49512
9; 1262.9; 18-AUG-2011 22:07:42; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;49512
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11; 1787.4; 18-AUG-2011 22:16:26; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;49512
12; 1899.1; 18-AUG-2011 22:18:18; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;49512
13; 2085.8; 18-AUG-2011 22:21:25; Bright; 42.0; 61; 8Eps Peg ; 2.10; 3900;occ; 84; 0;49512
14; 2479.4; 18-AUG-2011 22:27:58; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;49512
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6; 835.2; 18-AUG-2011 23:40:48; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;49513
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11; 1898.7; 18-AUG-2011 23:58:32; Bright; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;49513
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13; 2479.3; 19-AUG-2011 00:08:12; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;49513
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6; 2082.9; 19-AUG-2011 20:04:24; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;49525
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 6; 2475.0; 21-AUG-2011 18:57:27; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;49553  
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 14; 4724.1; 21-AUG-2011 19:34:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;49553  
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 23; 4955.9; 22-AUG-2011 02:19:44; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;49557  
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11; 322.9; 22-AUG-2011 04:22:59; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;49559
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12; 3336.6; 22-AUG-2011 21:55:33; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;49569
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3; 1301.9; 26-AUG-2011 20:34:54; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;49626
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14; 5321.1; 27-AUG-2011 16:04:27; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;49637
15; 5540.2; 27-AUG-2011 16:08:06; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;49637
16; 5723.5; 27-AUG-2011 16:11:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49637
17; 6433.7; 27-AUG-2011 16:23:00; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;49638
18; 6581.0; 27-AUG-2011 16:25:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;49638
19; 6937.5; 27-AUG-2011 16:31:23; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49638
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 2; 1602.1; 27-AUG-2011 16:42:42; Dark ; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;49638  
 3; 1792.1; 27-AUG-2011 16:45:52; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;49638  
 4; 1885.2; 27-AUG-2011 16:47:25; Bright; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;49638  
 5; 2065.8; 27-AUG-2011 16:50:26; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49638  
 6; 2511.8; 27-AUG-2011 16:57:52; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49638  
 7; 2964.8; 27-AUG-2011 17:05:25; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49638  
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 9; 3286.6; 27-AUG-2011 17:10:46; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49638  
 10; 4144.3; 27-AUG-2011 17:25:04; Bright; 32.0; 6; 13Alp Aur ; 0.08; 3400;occ; 64; 0;49638  
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 13; 4750.6; 27-AUG-2011 17:35:10; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;49638  
 14; 4838.4; 27-AUG-2011 17:36:38; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49638  
 15; 5006.0; 27-AUG-2011 17:39:26; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;49638  
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 17; 5541.2; 27-AUG-2011 17:48:21; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;49638  
 18; 5724.5; 27-AUG-2011 17:51:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49638  
 19; 6435.0; 27-AUG-2011 18:03:15; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49639  
 20; 6581.6; 27-AUG-2011 18:05:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49639  
 21; 6938.0; 27-AUG-2011 18:11:38; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;49639

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 3; 1792.2; 27-AUG-2011 20:06:20; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49640  
 4; 1885.1; 27-AUG-2011 20:07:53; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49640  
 5; 2065.5; 27-AUG-2011 20:10:53; Bright; 40.5; 61; 8Eps Peg ; 2.10; 3900;occ; 81; 0;49640  
 6; 2510.6; 27-AUG-2011 20:18:19; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;49640  
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 8; 3155.1; 27-AUG-2011 20:29:03; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49640  
 9; 3284.9; 27-AUG-2011 20:31:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;49640  
 10; 4143.7; 27-AUG-2011 20:45:32; Bright; 26.0; 6; 13Alp Aur ; 0.08; 3400;occ; 52; 0;49640  
 11; 4353.8; 27-AUG-2011 20:49:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;49640  
 12; 4648.6; 27-AUG-2011 20:53:57; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49640  
 13; 4751.3; 27-AUG-2011 20:55:39; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;49640  
 14; 4838.8; 27-AUG-2011 20:57:07; Dark ; 40.5; 153; 3Bet CMI ; 2.89; 13100;occ; 81; 0;49640  
 15; 5007.3; 27-AUG-2011 20:59:55; Dark ; 6.0; 14; 58Alp Ori ; 0.87; 3000;occ; 12; 0;49640

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 2; -469.9; 27-AUG-2011 22:49:06; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;49641  
 3; -286.4; 27-AUG-2011 22:52:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49641  
 4; 424.5; 27-AUG-2011 23:04:00; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;49642  
 5; 569.5; 27-AUG-2011 23:06:25; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;49642  
 6; 925.7; 27-AUG-2011 23:12:22; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;49642  
 7; 1306.5; 27-AUG-2011 23:18:42; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;49642  
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 9; 1792.0; 27-AUG-2011 23:26:48; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49642  
 10; 1884.9; 27-AUG-2011 23:28:21; Bright; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;49642  
 11; 2065.3; 27-AUG-2011 23:31:21; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49642  
 12; 2509.3; 27-AUG-2011 23:38:45; Bright; 46.5; 164; 44Eta Peg ; 2.95; 5400;occ; 93; 0;49642  
 13; 2964.0; 27-AUG-2011 23:46:20; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;49642  
 14; 3153.7; 27-AUG-2011 23:49:29; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;49642  
 15; 3283.6; 27-AUG-2011 23:51:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;49642  
 16; 4190.2; 28-AUG-2011 00:06:46; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;49642  
 17; 4353.6; 28-AUG-2011 00:09:29; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;49642  
 18; 4649.0; 28-AUG-2011 00:14:25; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;49642  
 19; 4751.8; 28-AUG-2011 00:16:08; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;49642  
 20; 4839.3; 28-AUG-2011 00:17:35; Dark ; 40.0; 153; 3Bet CMI ; 2.89; 13100;occ; 80; 0;49642  
 21; 5008.6; 28-AUG-2011 00:20:24; Dark ; 67.5; 14; 58Alp Ori ; 0.87; 3000;occ; 135; 0;49642  
 22; 5240.2; 28-AUG-2011 00:24:16; Dark ; 52.0; 33; 50Zet Ori ; 1.77; 30000;occ; 104; 0;49642  
 23; 5323.3; 28-AUG-2011 00:25:39; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;49642

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 2; 1602.2; 27-AUG-2011 18:22:56; Dark ; 46.0; 142; 49Del Cap ; 2.85; 8900;occ; 92; 0;49639  
 3; 1792.2; 27-AUG-2011 18:26:06; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49639  
 4; 1885.2; 27-AUG-2011 18:27:39; Bright; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;49639  
 5; 2065.6; 27-AUG-2011 18:30:40; Bright; 39.5; 61; 8Eps Peg ; 2.10; 3900;occ; 79; 0;49639



6; 2511.1; 27-AUG-2011 18:38:05; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49639  
7; 2964.6; 27-AUG-2011 18:45:39; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;49639  
8; 3155.8; 27-AUG-2011 18:48:50; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;49639  
9; 3285.7; 27-AUG-2011 18:51:00; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;49639  
10; 4143.9; 27-AUG-2011 19:05:18; Bright; 32.0; 6; 13Alp Aur ; 0.08; 3400;occ; 64; 0;49639  
11; 4353.8; 27-AUG-2011 19:08:48; Bright; 56.5; 107; 37The Aur ; 2.65; 11000;occ; 113; 0;49639  
12; 4648.3; 27-AUG-2011 19:13:42; Dark ; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;49639  
13; 4751.0; 27-AUG-2011 19:15:25; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;49639  
14; 4838.6; 27-AUG-2011 19:16:52; Dark ; 41.0; 153; 3Bet CMi ; 2.89; 13100;occ; 82; 0;49639  
15; 5006.6; 27-AUG-2011 19:19:40; Dark ; 64.5; 14; 58Alp Ori ; 0.87; 3000;occ; 129; 0;49639  
16; 5322.1; 27-AUG-2011 19:24:56; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;49639  
17; 5542.2; 27-AUG-2011 19:28:36; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;49639  
18; 5725.6; 27-AUG-2011 19:31:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49639  
19; 6436.2; 27-AUG-2011 19:43:30; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;49640  
20; 6582.2; 27-AUG-2011 19:45:56; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;49640  
21; 6938.6; 27-AUG-2011 19:51:53; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;49640

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2; -689.8; 28-AUG-2011 02:05:54; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;49643  
3; -467.7; 28-AUG-2011 02:09:36; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;49643  
4; -284.2; 28-AUG-2011 02:12:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49643  
5; 427.1; 28-AUG-2011 02:24:31; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49644  
6; 570.8; 28-AUG-2011 02:26:54; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;49644  
7; 927.0; 28-AUG-2011 02:32:51; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49644  
8; 1307.3; 28-AUG-2011 02:39:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;49644  
9; 1602.8; 28-AUG-2011 02:44:06; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;49644  
10; 1792.3; 28-AUG-2011 02:47:16; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;49644  
11; 1884.9; 28-AUG-2011 02:48:48; Bright; 41.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 83; 0;49644  
12; 2065.2; 28-AUG-2011 02:51:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;49644  
13; 2508.3; 28-AUG-2011 02:59:12; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;49644  
14; 2963.9; 28-AUG-2011 03:06:48; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;49644  
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3; -1364.3; 28-AUG-2011 03:34:53; Dark ; 57.0; 151; 13Mu Gem ; 2.89; 3000;occ; 114; 0;49644  
4; -1261.2; 28-AUG-2011 03:36:36; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;49644  
5; -1174.1; 28-AUG-2011 03:38:03; Dark ; 40.0; 153; 3Bet CMi ; 2.89; 13100;occ; 80; 0;49644  
6; -1003.9; 28-AUG-2011 03:40:54; Dark ; 72.5; 14; 58Alp Ori ; 0.87; 3000;occ; 145; 0;49644  
7; -771.7; 28-AUG-2011 03:44:46; Dark ; 44.0; 33; 50Zet Ori ; 1.77; 30000;occ; 88; 0;49644  
8; -689.3; 28-AUG-2011 03:46:08; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;49644  
9; -466.5; 28-AUG-2011 03:49:51; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;49644  
10; -283.2; 28-AUG-2011 03:52:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;49644  
11; 428.3; 28-AUG-2011 04:04:46; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;49645  
12; 571.4; 28-AUG-2011 04:07:09; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;49645  
13; 928.0; 28-AUG-2011 04:13:06; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;49645  
14; 1307.8; 28-AUG-2011 04:19:25; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49645  
15; 1603.2; 28-AUG-2011 04:24:21; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;49645  
16; 1792.5; 28-AUG-2011 04:27:30; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;49645  
17; 1885.0; 28-AUG-2011 04:29:03; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49645  
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19; 2508.0; 28-AUG-2011 04:39:26; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;49645  
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21; 3152.0; 28-AUG-2011 04:50:10; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;49645  
22; 3281.6; 28-AUG-2011 04:52:19; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;49645

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3; -1363.9; 28-AUG-2011 05:15:08; Dark ; 53.0; 151; 13Mu Gem ; 2.89; 3000;occ; 106; 0;49645  
4; -1260.8; 28-AUG-2011 05:16:51; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;49645  
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6; -1003.1; 28-AUG-2011 05:21:09; Dark ; 66.0; 14; 58Alp Ori ; 0.87; 3000;occ; 132; 0;49645  
7; -770.7; 28-AUG-2011 05:25:01; Dark ; 44.0; 33; 50Zet Ori ; 1.77; 30000;occ; 88; 0;49645  
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9; -465.6; 28-AUG-2011 05:30:06; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;49645  
10; -282.1; 28-AUG-2011 05:33:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;49645  
11; 429.5; 28-AUG-2011 05:45:01; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;49646

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13; 928.5; 28-AUG-2011 05:53:20; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;49646
14; 1308.1; 28-AUG-2011 05:59:40; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;49646
15; 1603.1; 28-AUG-2011 06:04:35; Dark ; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;49646
16; 1792.7; 28-AUG-2011 06:07:44; Bright; 39.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 78; 0;49646
17; 1884.9; 28-AUG-2011 06:09:17; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;49646
18; 2065.3; 28-AUG-2011 06:12:17; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;49646
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13; 2959.4; 31-AUG-2011 01:16:30; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;49686
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