

# GOMOS Daily Report 27-SEP-2007

## Level 0 and Level 1 products

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

Item	Value
Time of report generation	28SEP2007 07:05:36
Data source version	GOMOS/5.00
Start time of products	27-09-2007 (27SEP2007 00:00:00)
Stop time of products	28-09-2007 (28SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	16
Nb of prods with errors	0

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

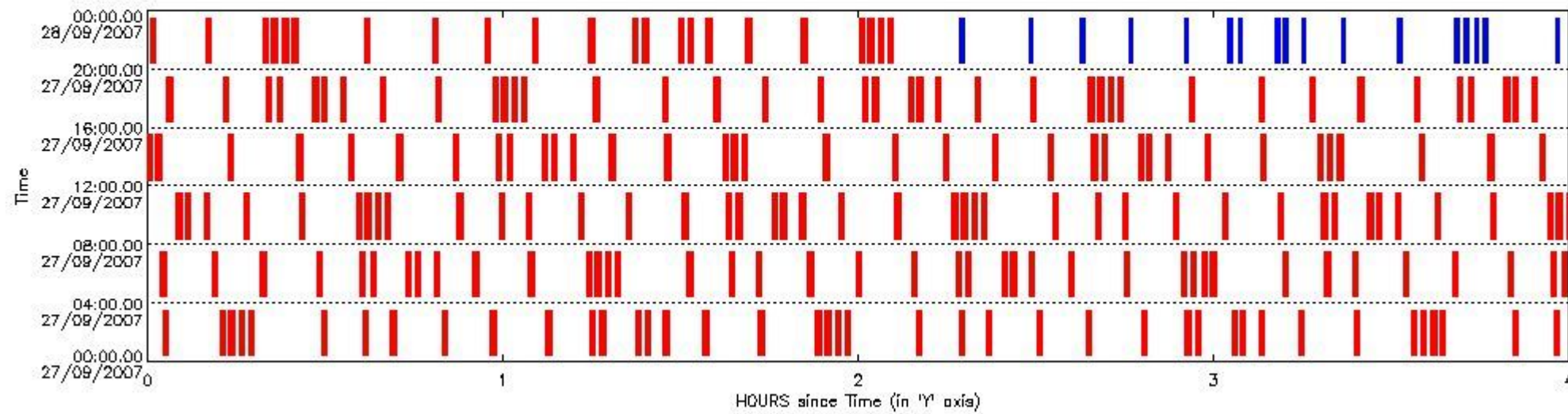
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
27-SEP-2007 00:02:29	30AlpHya	48	29142
27-SEP-2007 00:12:11	LamVel	65	29142
27-SEP-2007 00:13:39	DSA1030	0	29142
27-SEP-2007 00:15:29	DelVel	46	29142
27-SEP-2007 00:17:04	EpsCar	41	29142
27-SEP-2007 00:29:13	AlpHyi	143	29143
27-SEP-2007 00:36:21	BetGru	63	29143
27-SEP-2007 00:40:57	24AlpPsA	18	29143
27-SEP-2007 00:49:37	34AlpAqr	162	29143
27-SEP-2007 00:57:50	44EtaPeg	164	29143
27-SEP-2007 01:07:15	5AlpCep	89	29143
27-SEP-2007 01:14:36	1AlpUMi	49	29143
27-SEP-2007 01:16:21	7BetUMi	60	29143
27-SEP-2007 01:22:25	50AlpUMa	36	29143
27-SEP-2007 01:23:54	48BetUMa	82	29143

27-SEP-2007 01:27:04	52PsiUMa	174	29143
27-SEP-2007 01:33:43	17EpsLeo	166	29143
27-SEP-2007 01:43:06	30AlpHya	48	29143
27-SEP-2007 01:52:47	LamVel	65	29143
27-SEP-2007 01:54:16	DSA1030	0	29143
27-SEP-2007 01:56:05	DeIVel	46	29143
27-SEP-2007 01:57:40	EpsCar	41	29143
27-SEP-2007 02:09:50	AlpHyi	143	29144
27-SEP-2007 02:16:57	BetGru	63	29144
27-SEP-2007 02:21:33	24AlpPsA	18	29144
27-SEP-2007 02:30:13	34AlpAqr	162	29144
27-SEP-2007 02:38:26	44EtaPeg	164	29144
27-SEP-2007 02:47:51	5AlpCep	89	29144
27-SEP-2007 02:55:12	1AlpUMi	49	29144
27-SEP-2007 02:56:57	7BetUMi	60	29144
27-SEP-2007 03:03:01	50AlpUMa	36	29144
27-SEP-2007 03:04:30	48BetUMa	82	29144
27-SEP-2007 03:07:40	52PsiUMa	174	29144
27-SEP-2007 03:14:19	17EpsLeo	166	29144
27-SEP-2007 03:23:42	30AlpHya	48	29144
27-SEP-2007 03:33:23	LamVel	65	29144
27-SEP-2007 03:34:52	DSA1030	0	29144
27-SEP-2007 03:36:42	DeIVel	46	29144
27-SEP-2007 03:38:17	EpsCar	41	29144
27-SEP-2007 03:50:26	AlpHyi	143	29145
27-SEP-2007 03:57:33	BetGru	63	29145
27-SEP-2007 04:02:09	24AlpPsA	18	29145
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27-SEP-2007 04:37:33	7BetUMi	60	29145
27-SEP-2007 04:43:37	50AlpUMa	36	29145
27-SEP-2007 04:45:06	48BetUMa	82	29145
27-SEP-2007 04:48:16	52PsiUMa	174	29145
27-SEP-2007 04:54:55	17EpsLeo	166	29145
27-SEP-2007 05:04:18	30AlpHya	48	29145
27-SEP-2007 05:14:00	LamVel	65	29145
27-SEP-2007 05:15:28	DSA1030	0	29145
27-SEP-2007 05:17:18	DeIVel	46	29145
27-SEP-2007 05:18:53	EpsCar	41	29145
27-SEP-2007 05:31:02	AlpHyi	143	29146
27-SEP-2007 05:38:09	BetGru	63	29146
27-SEP-2007 05:42:45	24AlpPsA	18	29146
27-SEP-2007 05:51:25	34AlpAqr	162	29146
27-SEP-2007 05:59:37	44EtaPeg	164	29146
27-SEP-2007 06:09:04	5AlpCep	89	29146
27-SEP-2007 06:16:24	1AlpUMi	49	29146
27-SEP-2007 06:18:09	7BetUMi	60	29146
27-SEP-2007 06:24:13	50AlpUMa	36	29146
27-SEP-2007 06:25:42	48BetUMa	82	29146
27-SEP-2007 06:28:53	52PsiUMa	174	29146
27-SEP-2007 06:35:31	17EpsLeo	166	29146
27-SEP-2007 06:44:55	30AlpHya	48	29146
27-SEP-2007 06:54:36	LamVel	65	29146
27-SEP-2007 06:56:05	DSA1030	0	29146
27-SEP-2007 06:57:54	DeIVel	46	29146
27-SEP-2007 06:59:29	EpsCar	41	29146
27-SEP-2007 07:11:39	AlpHyi	143	29147

27-SEP-2007 07:18:45	BetGru	63	29147
27-SEP-2007 07:23:21	24AlpPsA	18	29147
27-SEP-2007 07:32:01	34AlpAqr	162	29147
27-SEP-2007 07:40:13	44EtaPeg	164	29147
27-SEP-2007 07:49:40	5AlpCep	89	29147
27-SEP-2007 07:57:00	1AlpUMi	49	29147
27-SEP-2007 07:58:46	7BetUMi	60	29147
27-SEP-2007 08:04:49	50AlpUMa	36	29147
27-SEP-2007 08:06:18	48BetUMa	82	29147
27-SEP-2007 08:09:29	52PsiUMa	174	29147
27-SEP-2007 08:16:07	17EpsLeo	166	29147
27-SEP-2007 08:25:31	30AlpHya	48	29147
27-SEP-2007 08:35:12	LamVel	65	29147
27-SEP-2007 08:36:41	DSA1030	0	29147
27-SEP-2007 08:38:30	DeIVel	46	29147
27-SEP-2007 08:40:05	EpsCar	41	29147
27-SEP-2007 08:52:15	AlpHyi	143	29148
27-SEP-2007 08:59:21	BetGru	63	29148
27-SEP-2007 09:03:57	24AlpPsA	18	29148
27-SEP-2007 09:12:37	34AlpAqr	162	29148
27-SEP-2007 09:20:49	44EtaPeg	164	29148
27-SEP-2007 09:30:16	5AlpCep	89	29148
27-SEP-2007 09:37:36	1AlpUMi	49	29148
27-SEP-2007 09:39:22	7BetUMi	60	29148
27-SEP-2007 09:45:25	50AlpUMa	36	29148
27-SEP-2007 09:46:54	48BetUMa	82	29148
27-SEP-2007 09:50:05	52PsiUMa	174	29148
27-SEP-2007 09:56:43	17EpsLeo	166	29148
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27-SEP-2007 11:01:25	44EtaPeg	164	29149
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27-SEP-2007 11:26:01	50AlpUMa	36	29149
27-SEP-2007 11:27:30	48BetUMa	82	29149
27-SEP-2007 11:30:41	52PsiUMa	174	29149
27-SEP-2007 11:37:19	17EpsLeo	166	29149
27-SEP-2007 11:46:43	30AlpHya	48	29149
27-SEP-2007 11:56:25	LamVel	65	29149
27-SEP-2007 11:57:53	DSA1030	0	29149
27-SEP-2007 11:59:43	DeIVel	46	29149
27-SEP-2007 12:01:18	EpsCar	41	29149
27-SEP-2007 12:13:28	AlpHyi	143	29150
27-SEP-2007 12:25:10	24AlpPsA	18	29150
27-SEP-2007 12:33:50	34AlpAqr	162	29150
27-SEP-2007 12:42:01	44EtaPeg	164	29150
27-SEP-2007 12:51:28	5AlpCep	89	29150
27-SEP-2007 12:58:48	1AlpUMi	49	29150
27-SEP-2007 13:00:34	7BetUMi	60	29150
27-SEP-2007 13:06:37	50AlpUMa	36	29150
27-SEP-2007 13:08:06	48BetUMa	82	29150

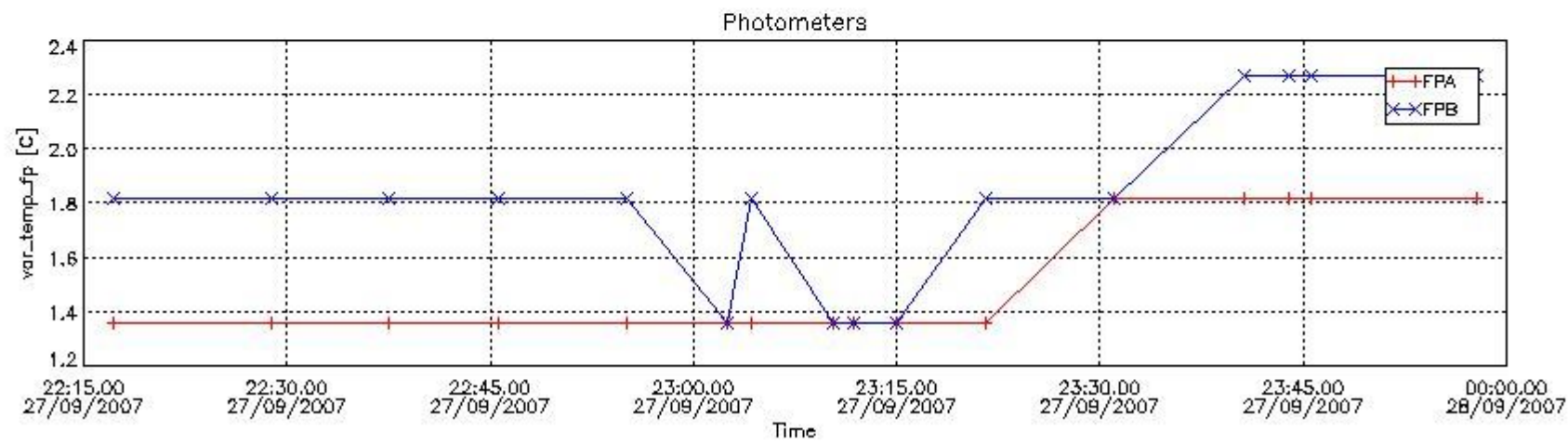
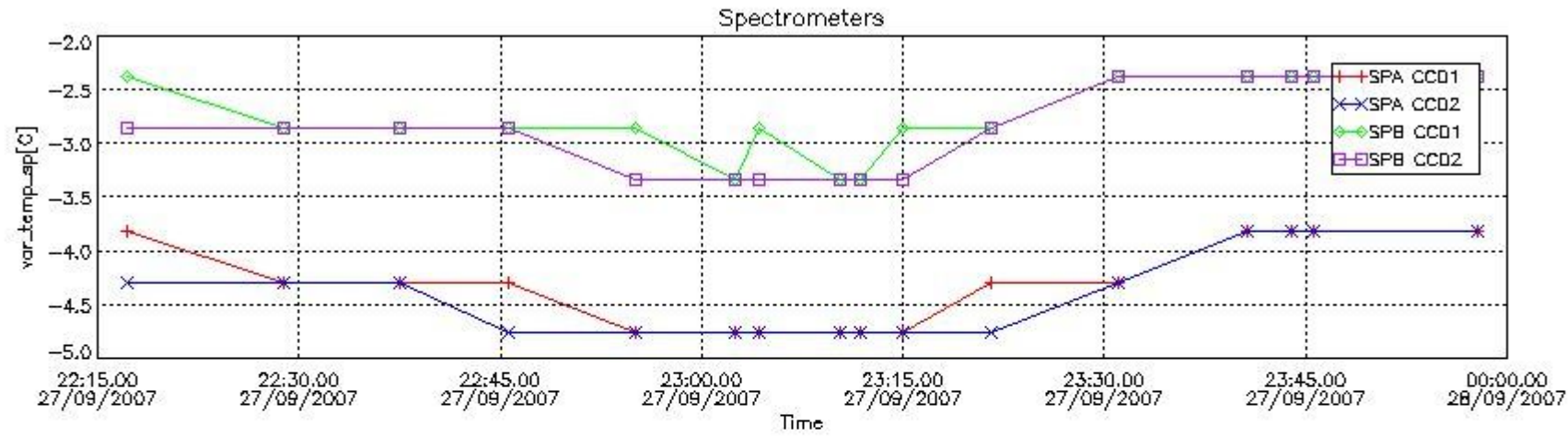
27-SEP-2007 13:11:17	52PsiUMa	174	29150
27-SEP-2007 13:17:56	17EpsLeo	166	29150
27-SEP-2007 13:27:20	30AlpHya	48	29150
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27-SEP-2007 13:38:30	DSA1030	0	29150
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27-SEP-2007 14:05:46	24AlpPsA	18	29151
27-SEP-2007 14:14:26	34AlpAqr	162	29151
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27-SEP-2007 15:07:56	30AlpHya	48	29151
27-SEP-2007 15:17:37	LamVel	65	29151
27-SEP-2007 15:19:06	DSA1030	0	29151
27-SEP-2007 15:20:55	DelVel	46	29151
27-SEP-2007 15:34:41	AlpHyi	143	29152
27-SEP-2007 15:46:22	24AlpPsA	18	29152
27-SEP-2007 15:55:02	34AlpAqr	162	29152
27-SEP-2007 16:03:13	44EtaPeg	164	29152
27-SEP-2007 16:12:40	5AlpCep	89	29152
27-SEP-2007 16:20:00	1AlpUMi	49	29152
27-SEP-2007 16:21:47	7BetUMi	60	29152
27-SEP-2007 16:27:49	50AlpUMa	36	29152
27-SEP-2007 16:29:18	48BetUMa	82	29152
27-SEP-2007 16:32:29	52PsiUMa	174	29152
27-SEP-2007 16:39:08	17EpsLeo	166	29152
27-SEP-2007 16:48:32	30AlpHya	48	29152
27-SEP-2007 16:58:13	LamVel	65	29152
27-SEP-2007 16:59:42	DSA1030	0	29152
27-SEP-2007 17:01:32	DelVel	46	29152
27-SEP-2007 17:03:07	EpsCar	41	29152
27-SEP-2007 17:15:17	AlpHyi	143	29153
27-SEP-2007 17:26:58	24AlpPsA	18	29153
27-SEP-2007 17:35:38	34AlpAqr	162	29153
27-SEP-2007 17:43:49	44EtaPeg	164	29153
27-SEP-2007 17:53:16	5AlpCep	89	29153
27-SEP-2007 18:00:36	1AlpUMi	49	29153
27-SEP-2007 18:02:23	7BetUMi	60	29153
27-SEP-2007 18:08:25	50AlpUMa	36	29153
27-SEP-2007 18:09:55	48BetUMa	82	29153
27-SEP-2007 18:13:05	52PsiUMa	174	29153
27-SEP-2007 18:19:44	17EpsLeo	166	29153
27-SEP-2007 18:29:08	30AlpHya	48	29153
27-SEP-2007 18:38:50	LamVel	65	29153
27-SEP-2007 18:40:18	DSA1030	0	29153
27-SEP-2007 18:42:08	DelVel	46	29153
27-SEP-2007 18:43:43	EpsCar	41	29153
27-SEP-2007 18:55:53	AlpHyi	143	29154
27-SEP-2007 19:07:34	24AlpPsA	18	29154
27-SEP-2007 19:16:14	34AlpAqr	162	29154
27-SEP-2007 19:24:25	44EtaPeg	164	29154
27-SEP-2007 19:33:52	5AlpCep	89	29154
27-SEP-2007 19:41:11	1AlpUMi	49	29154

27-SEP-2007 19:42:59	7BetUMi	60	29154
27-SEP-2007 19:49:01	50AlpUMa	36	29154
27-SEP-2007 19:50:31	48BetUMa	82	29154
27-SEP-2007 19:53:42	52PsiUMa	174	29154
27-SEP-2007 20:00:20	17EpsLeo	166	29154
27-SEP-2007 20:09:45	30AlpHya	48	29154
27-SEP-2007 20:19:26	LamVel	65	29154
27-SEP-2007 20:20:55	DSA1030	0	29154
27-SEP-2007 20:22:44	DelVel	46	29154
27-SEP-2007 20:24:19	EpsCar	41	29154
27-SEP-2007 20:36:30	AlpHyi	143	29155
27-SEP-2007 20:48:10	24AlpPsA	18	29155
27-SEP-2007 20:56:50	34AlpAqr	162	29155
27-SEP-2007 21:05:01	44EtaPeg	164	29155
27-SEP-2007 21:14:28	5AlpCep	89	29155
27-SEP-2007 21:21:47	1AlpUMi	49	29155
27-SEP-2007 21:23:35	7BetUMi	60	29155
27-SEP-2007 21:29:37	50AlpUMa	36	29155
27-SEP-2007 21:31:07	48BetUMa	82	29155
27-SEP-2007 21:34:18	52PsiUMa	174	29155
27-SEP-2007 21:40:56	17EpsLeo	166	29155
27-SEP-2007 21:50:21	30AlpHya	48	29155
27-SEP-2007 22:00:02	LamVel	65	29155
27-SEP-2007 22:01:31	DSA1030	0	29155
27-SEP-2007 22:03:20	DelVel	46	29155
27-SEP-2007 22:04:55	EpsCar	41	29155

#### 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_1PNPDE20070927_221709_000000382062_00044_29156_0794.N1	27-SEP-2007 22:17:09	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29156	No
2	GOM_TRA_1PNPDE20070927_222849_000000402062_00044_29156_0795.N1	27-SEP-2007 22:28:49	Straylight	39.500	18	24Alp PsA	1.1660	9700.0	79	29156	No
3	GOM_TRA_1PNPDE20070927_223729_000000382062_00044_29156_0796.N1	27-SEP-2007 22:37:29	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	29156	No
4	GOM_TRA_1PNPDE20070927_224539_000000352062_00044_29156_0797.N1	27-SEP-2007 22:45:39	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	29156	No
5	GOM_TRA_1PNPDE20070927_225507_000000352062_00044_29156_0798.N1	27-SEP-2007 22:55:07	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	29156	No
6	GOM_TRA_1PNPDE20070927_230226_000000372062_00044_29156_0799.N1	27-SEP-2007 23:02:26	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29156	No
7	GOM_TRA_1PNPDE20070927_230414_000000352062_00044_29156_0800.N1	27-SEP-2007 23:04:14	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	29156	No
8	GOM_TRA_1PNPDE20070927_231016_000000522062_00044_29156_0801.N1	27-SEP-2007 23:10:16	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	29156	No
9	GOM_TRA_1PNPDE20070927_231145_000000522062_00044_29156_0802.N1	27-SEP-2007 23:11:45	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29156	No
10	GOM_TRA_1PNPDE20070927_231456_000000342062_00044_29156_0803.N1	27-SEP-2007 23:14:56	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	29156	No
11	GOM_TRA_1PNPDE20070927_232135_000000342062_00044_29156_0946.N1	27-SEP-2007 23:21:35	Bright	34.000	166	17Eps Leo	2.9800	6000.0	68	29156	No
12	GOM_TRA_1PNPDE20070927_233100_000000442062_00044_29156_0947.N1	27-SEP-2007 23:31:00	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29156	No
13	GOM_TRA_1PNPDE20070927_234041_000000432062_00044_29156_0948.N1	27-SEP-2007 23:40:41	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	29156	No
14	GOM_TRA_1PNPDE20070927_234359_000000392062_00044_29156_0949.N1	27-SEP-2007 23:43:59	Dark	38.500	46	Del Vel	1.9540	10600.	77	29156	No
15	GOM_TRA_1PNPDE20070927_234534_000000382062_00044_29156_0950.N1	27-SEP-2007 23:45:34	Dark	37.500	41	Eps Car	1.8600	4100.0	75	29156	No
16	GOM_TRA_1PNPDE20070927_235745_000000392062_00045_29157_0951.N1	27-SEP-2007 23:57:45	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29157	No

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



#### 4. Overview of dark signal processing per product

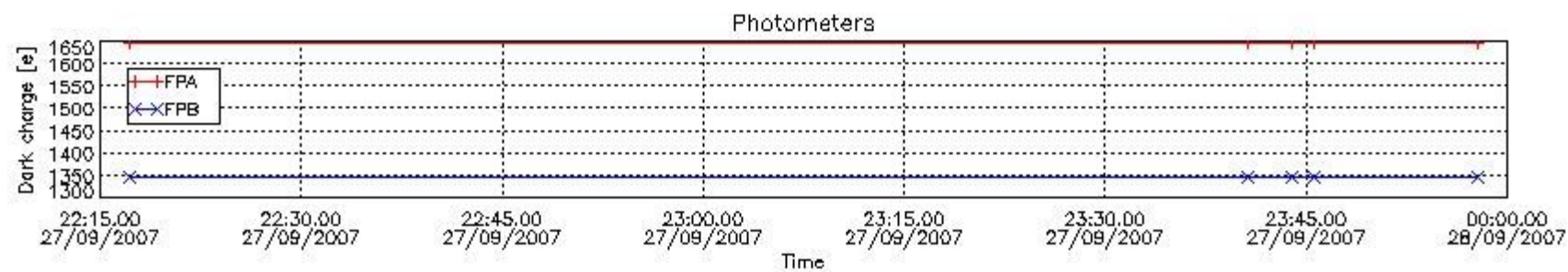
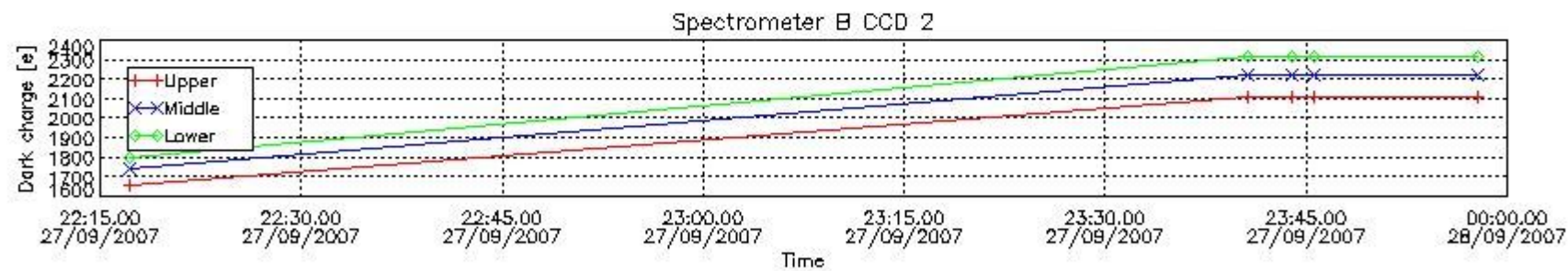
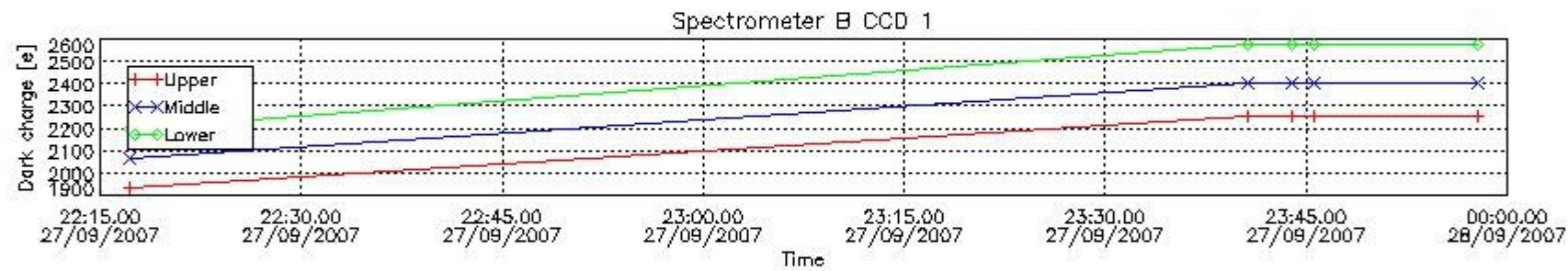
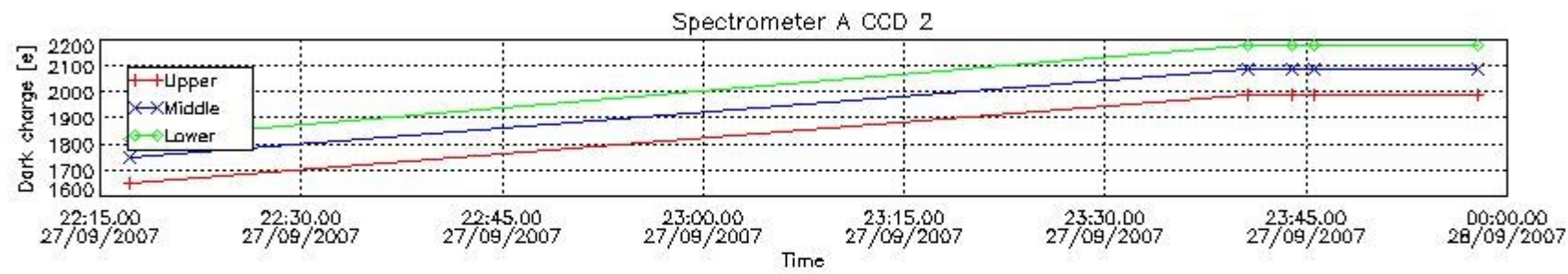
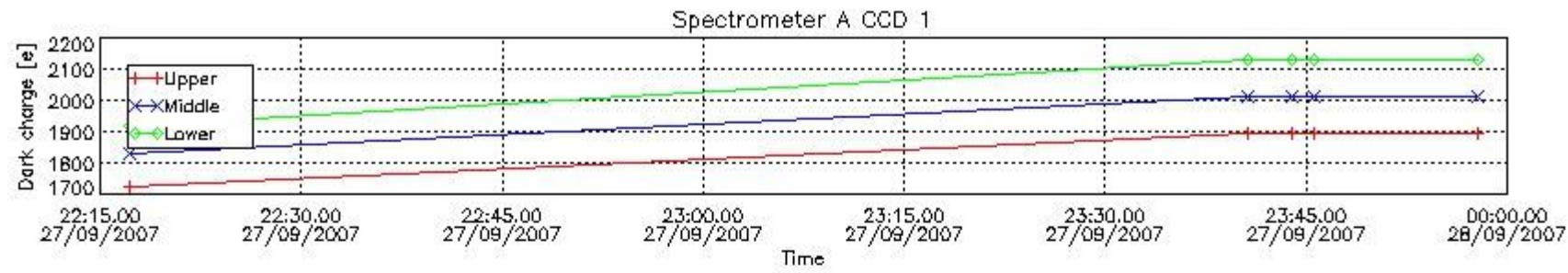
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20070927_221709_000000382062_00044_29156_0794.N1	DC map used
GOM_TRA_1PNPDE20070927_222849_000000402062_00044_29156_0795.N1	DC map used
GOM_TRA_1PNPDE20070927_223729_000000382062_00044_29156_0796.N1	DC map used
GOM_TRA_1PNPDE20070927_224539_000000352062_00044_29156_0797.N1	DC map used
GOM_TRA_1PNPDE20070927_225507_000000352062_00044_29156_0798.N1	DC map used
GOM_TRA_1PNPDE20070927_230226_000000372062_00044_29156_0799.N1	DC map used
GOM_TRA_1PNPDE20070927_230414_000000352062_00044_29156_0800.N1	DC map used
GOM_TRA_1PNPDE20070927_231016_000000522062_00044_29156_0801.N1	DC map used
GOM_TRA_1PNPDE20070927_231145_000000522062_00044_29156_0802.N1	DC map used
GOM_TRA_1PNPDE20070927_231456_000000342062_00044_29156_0803.N1	DC map used

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



## 5. Demodulation flag and quality information monitoring

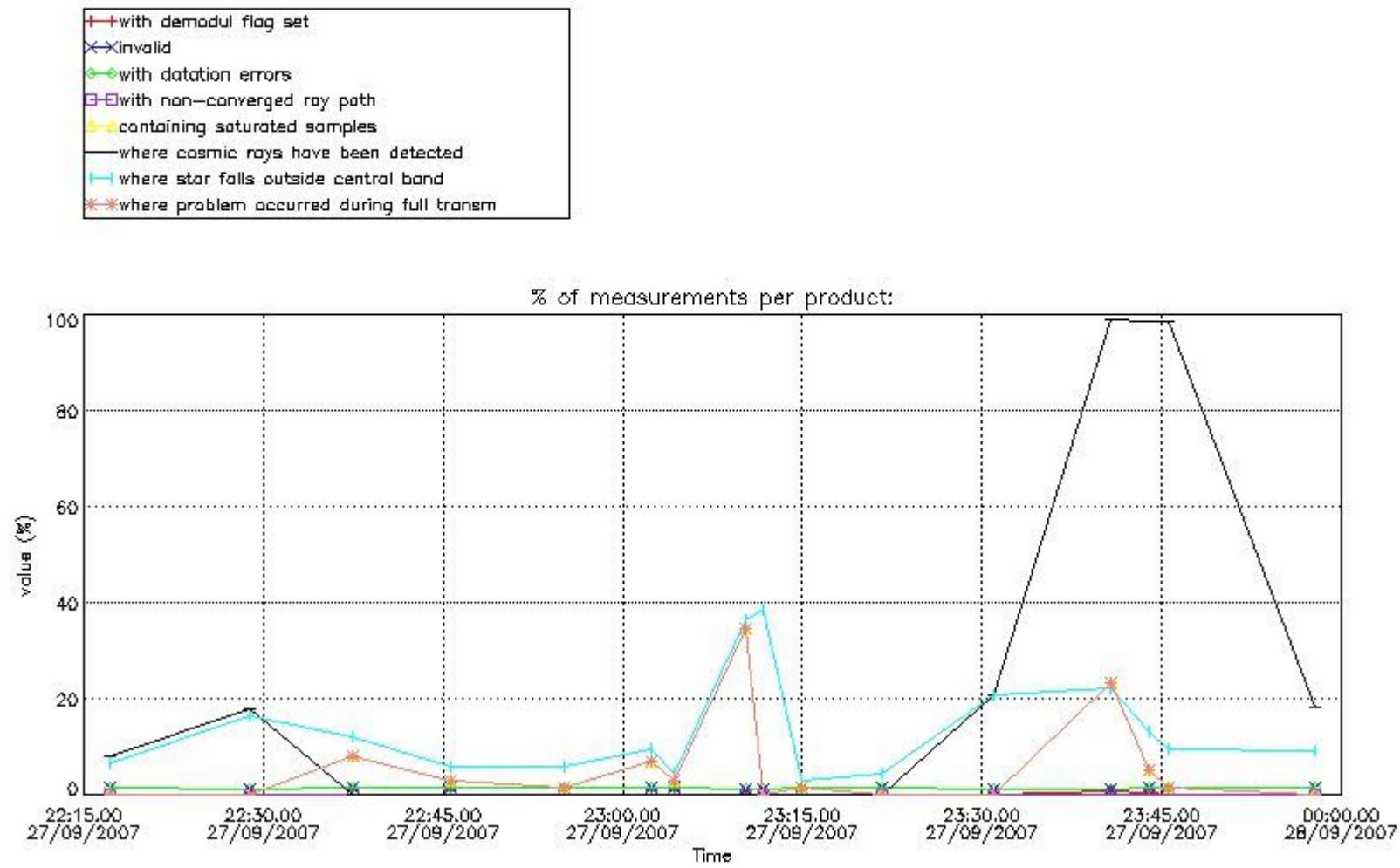
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

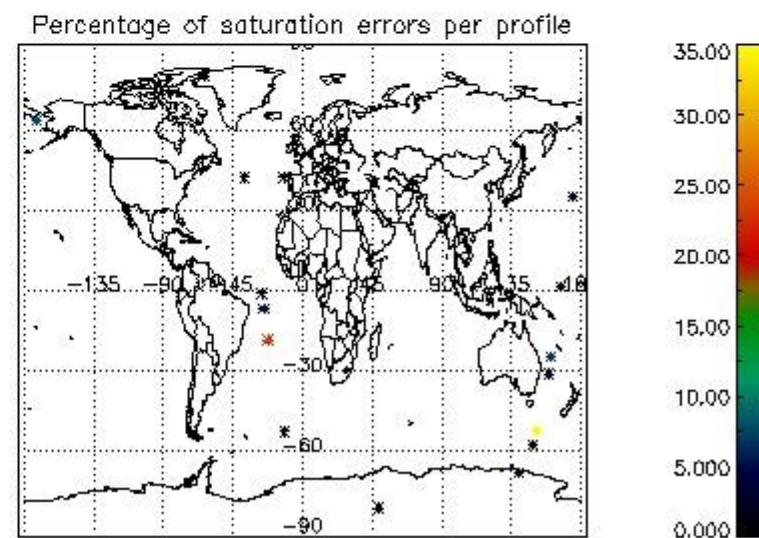
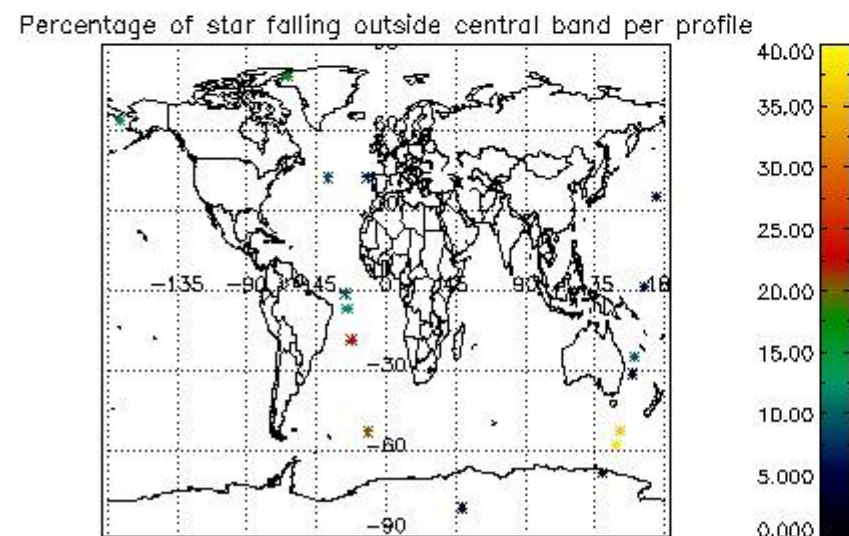
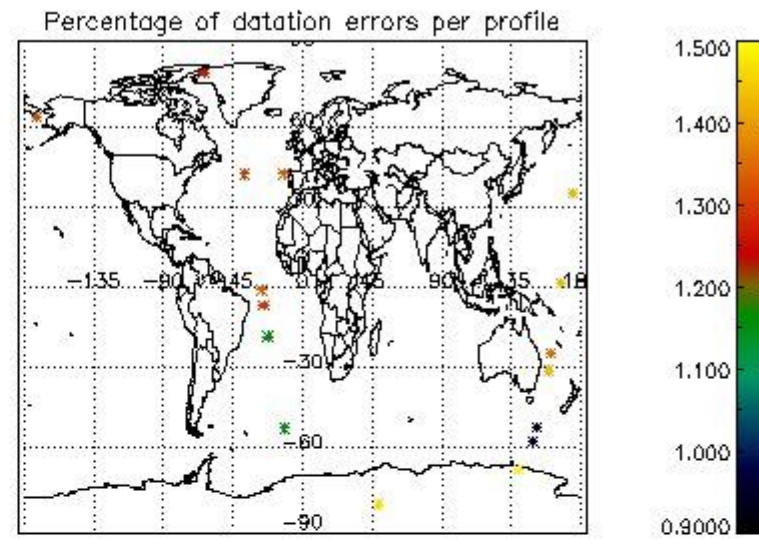
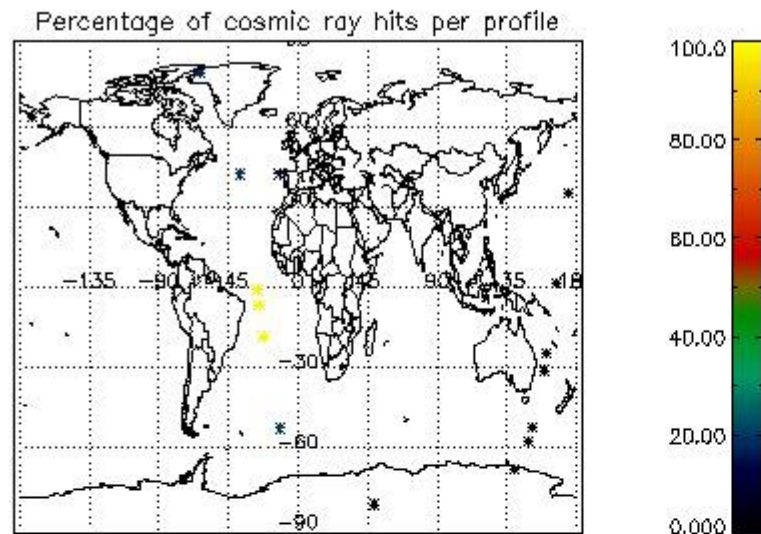


At least one measurement with demodulation flag set:	18.7500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)



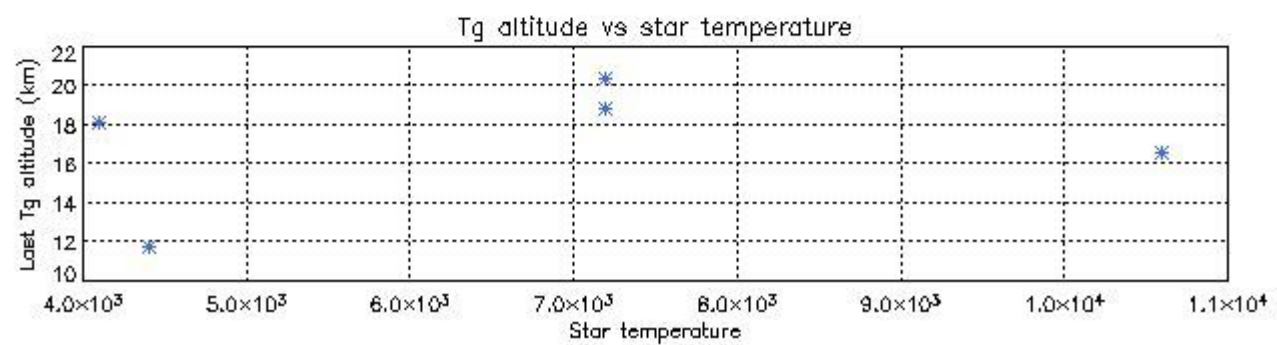
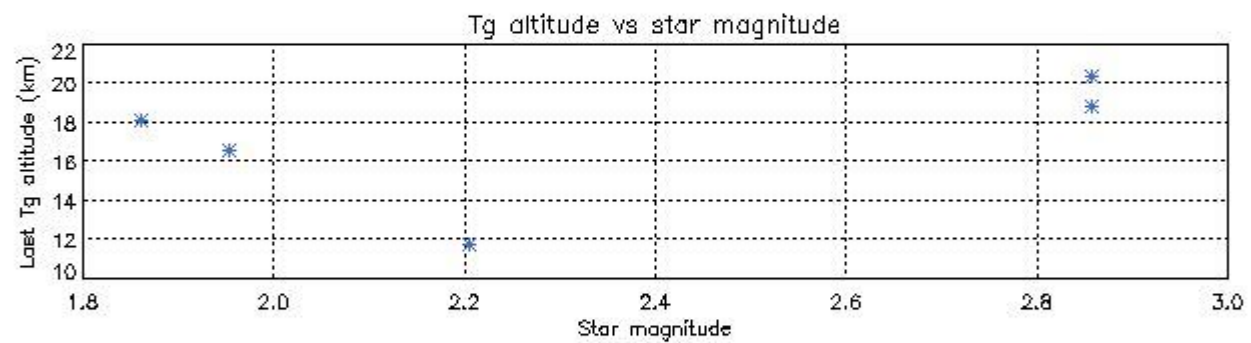
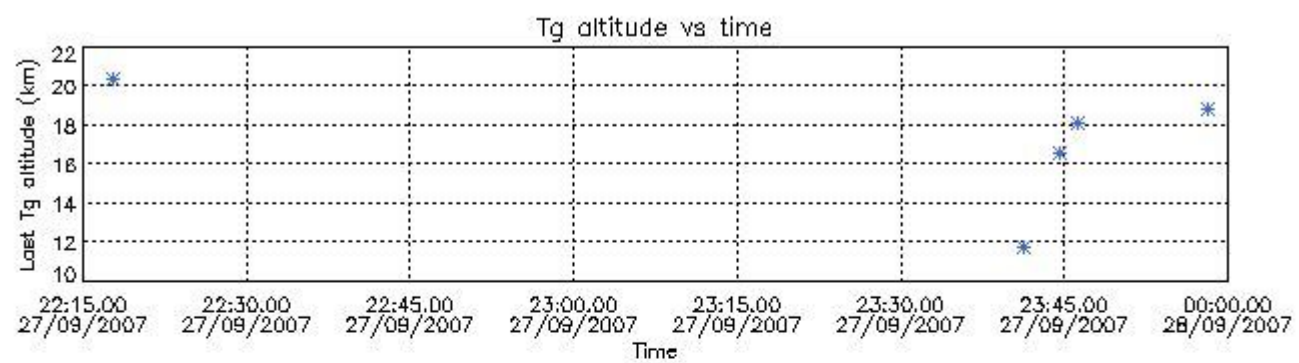
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.115	17.375	11.210
St. deviation:	3.2827	8.4767	0.0000
Maximum:	20.318	25.016	11.210
Minimum:	11.754	3.2000	11.210
Number of data:	5.0000	9.0000	1.0000

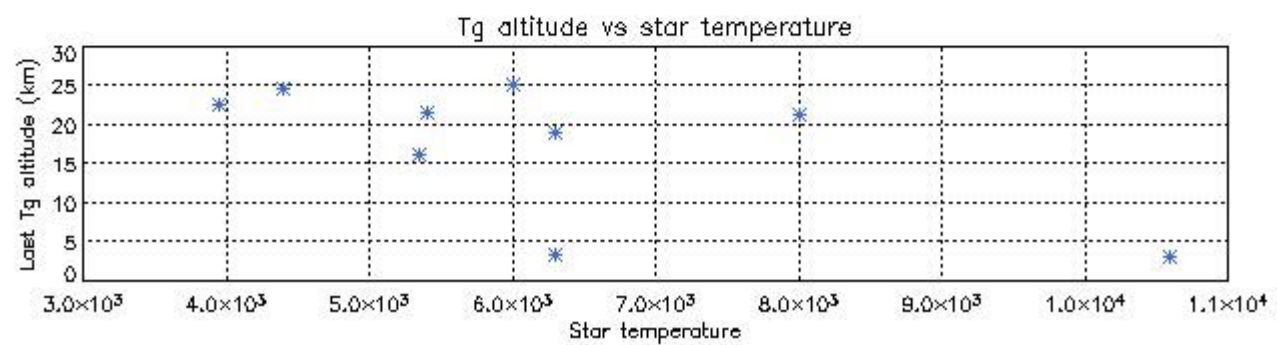
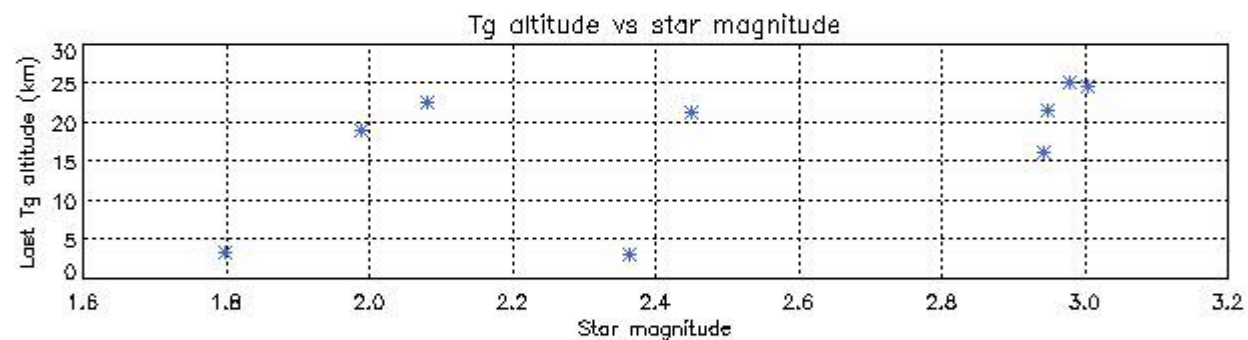
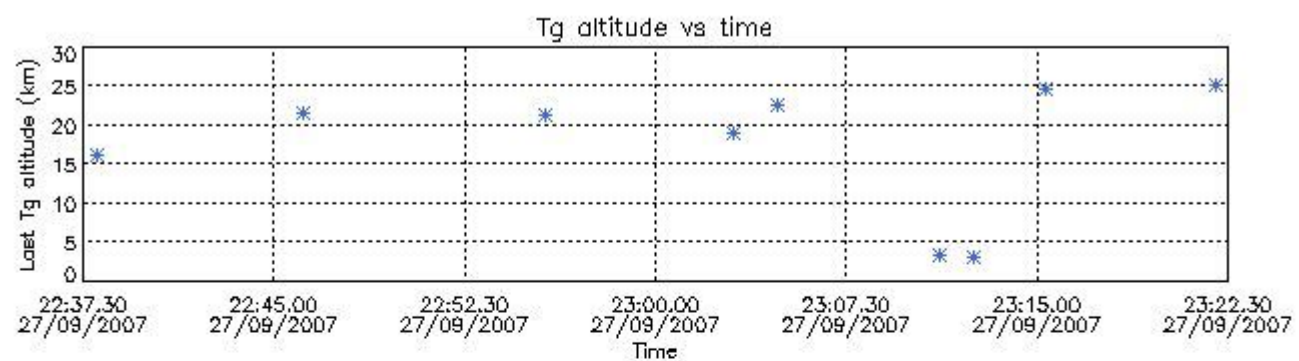
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



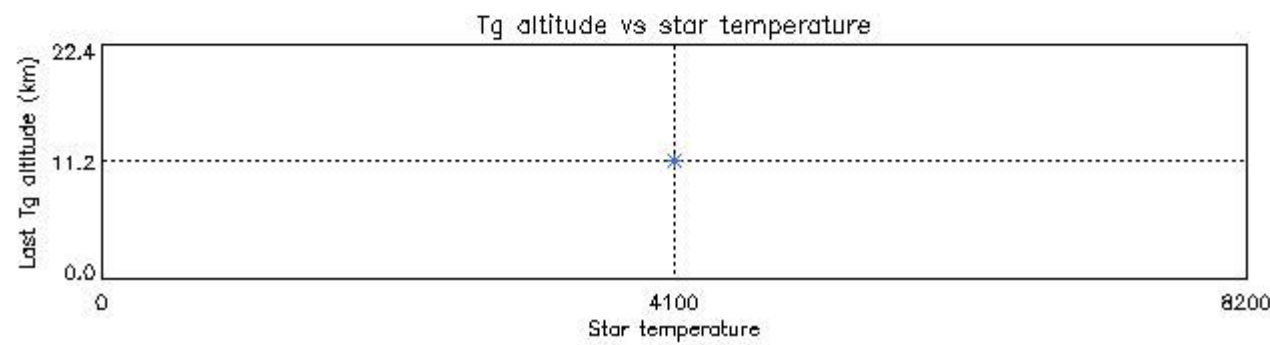
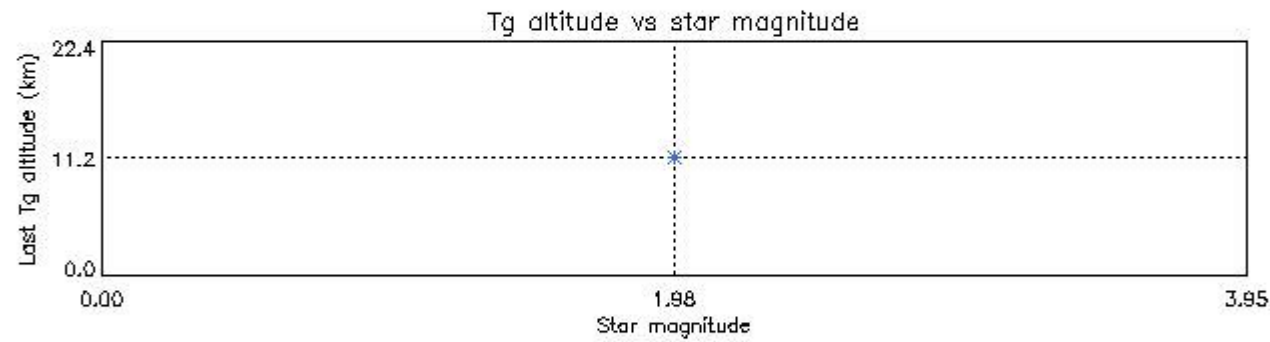
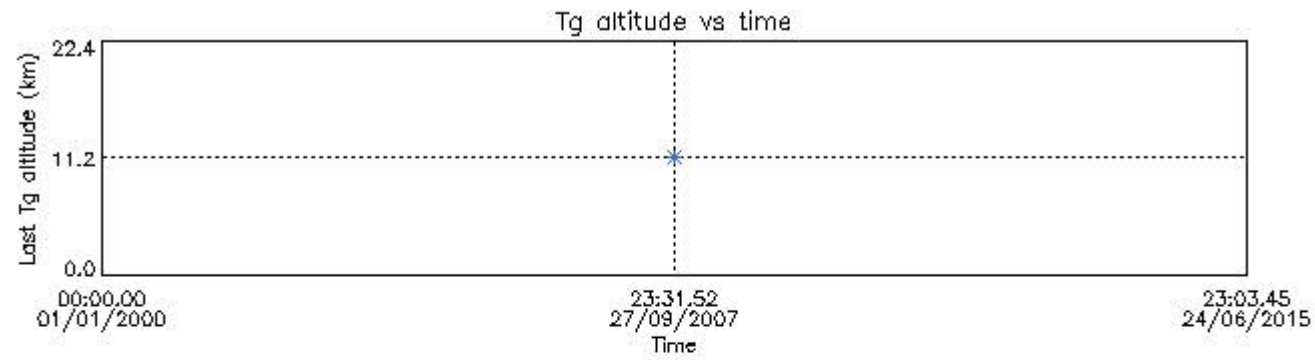
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

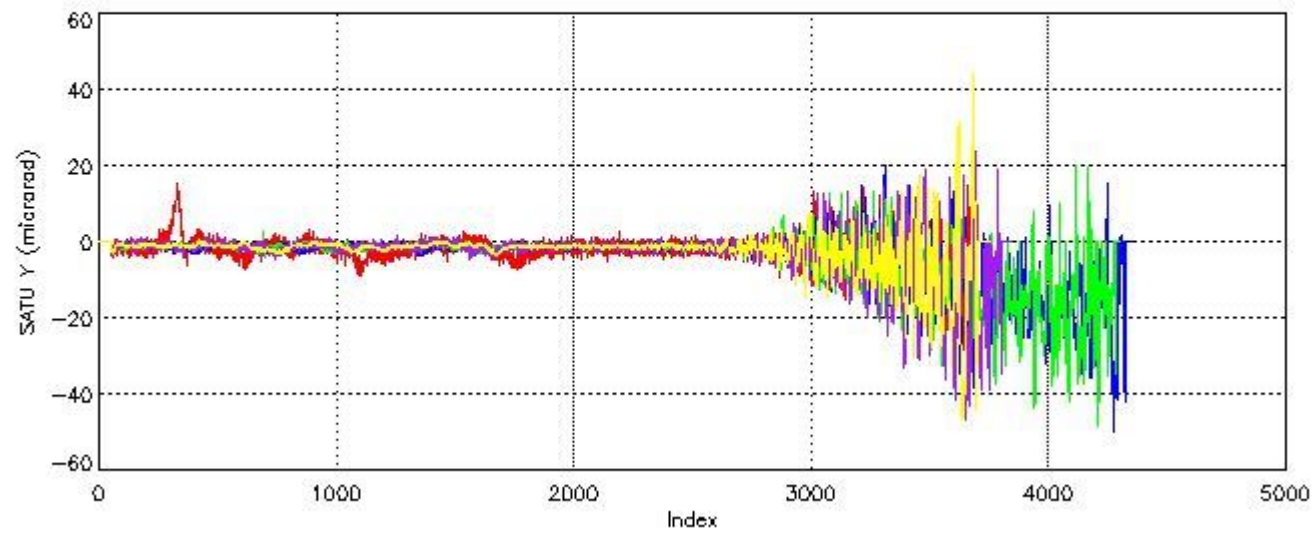
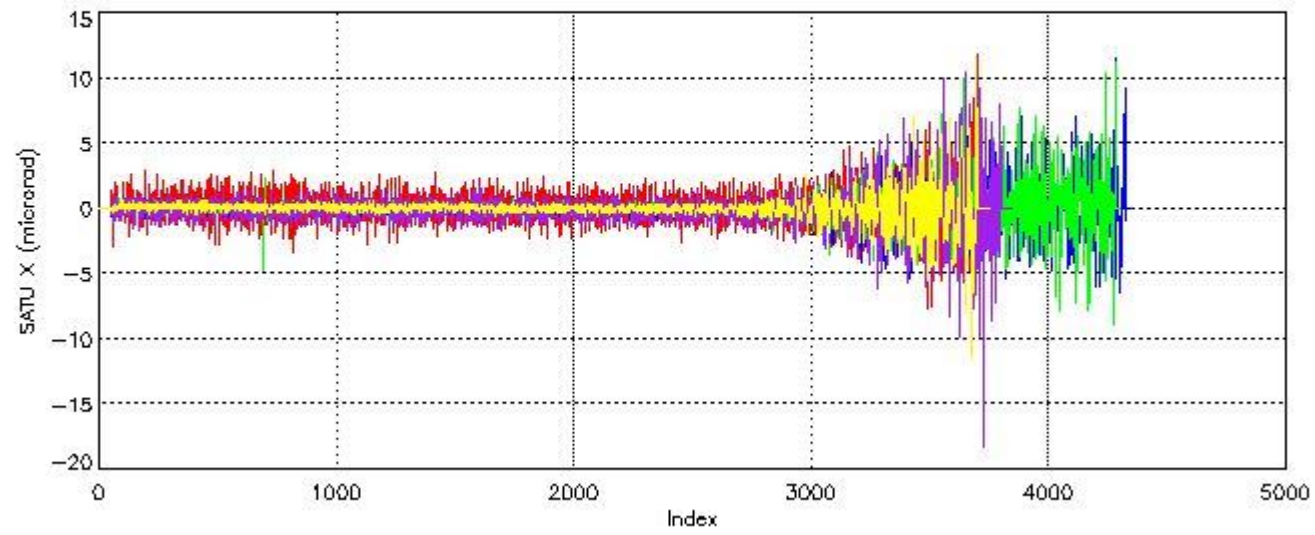


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.052297	-1.2501	-0.10406	-1.3099
St. deviation:	0.58830	1.3428	0.71595	1.2112
Maximum:	3.5000	15.000	3.2000	3.6000
Minimum:	-4.8000	-7.4000	-3.7000	-6.2000

Number of data:	4200.0	4200.0	7200.0	7200.0
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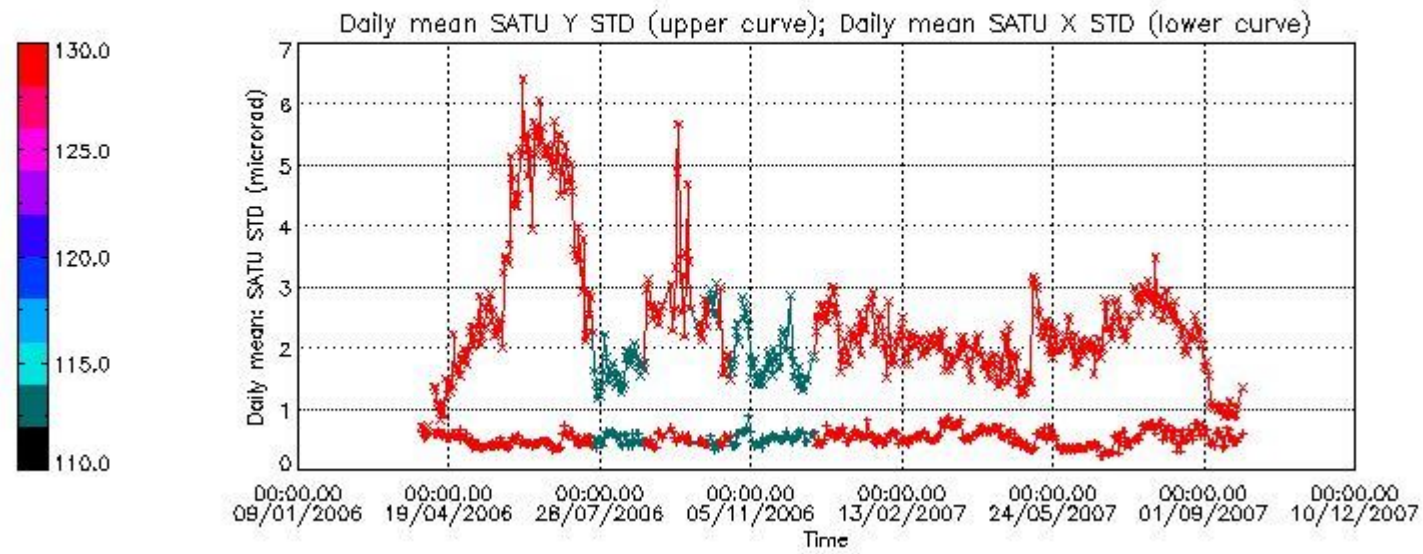
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

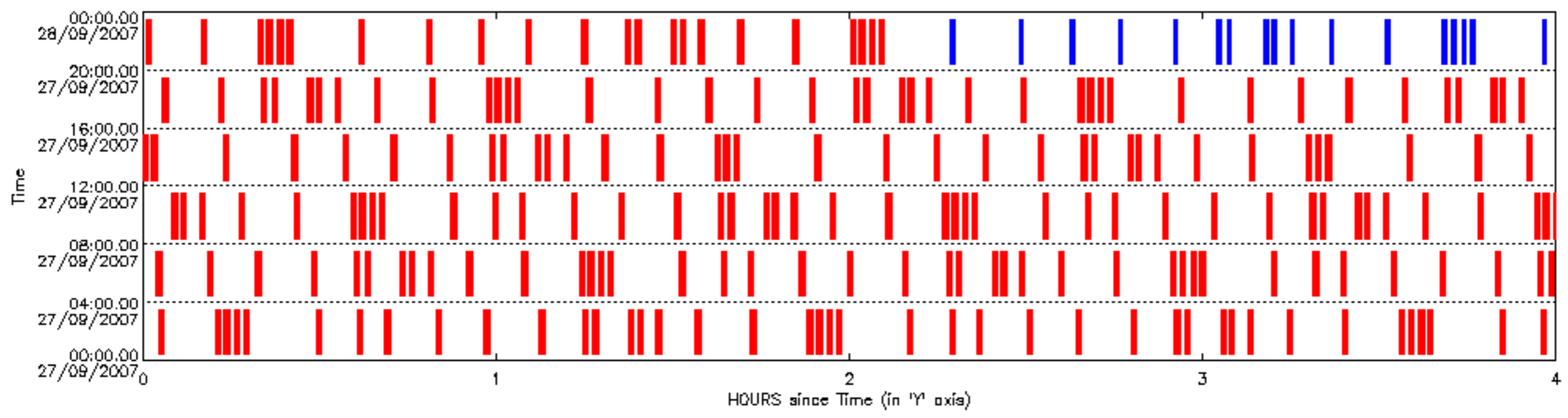
Lower curve: STD of SATU X axis



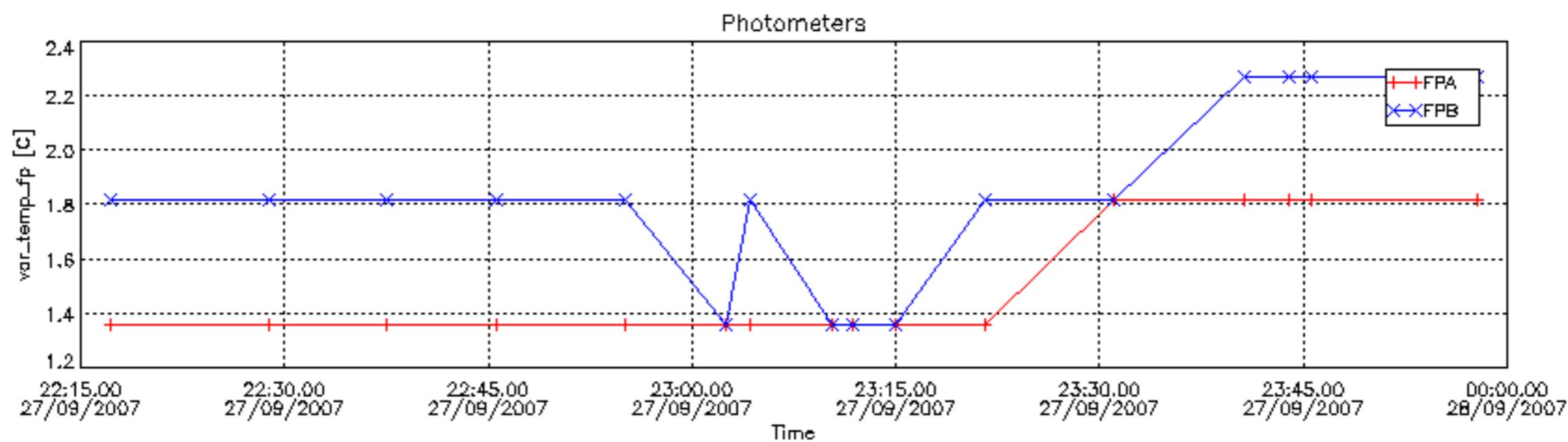
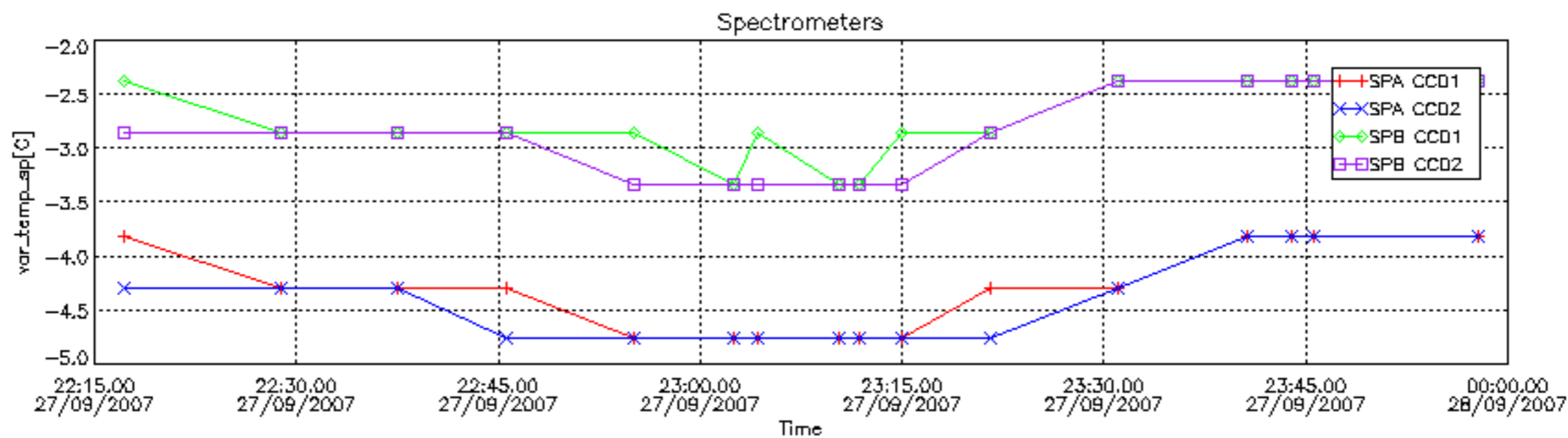
### 8. Auxiliary Data Files used for the production reported in section 2.4

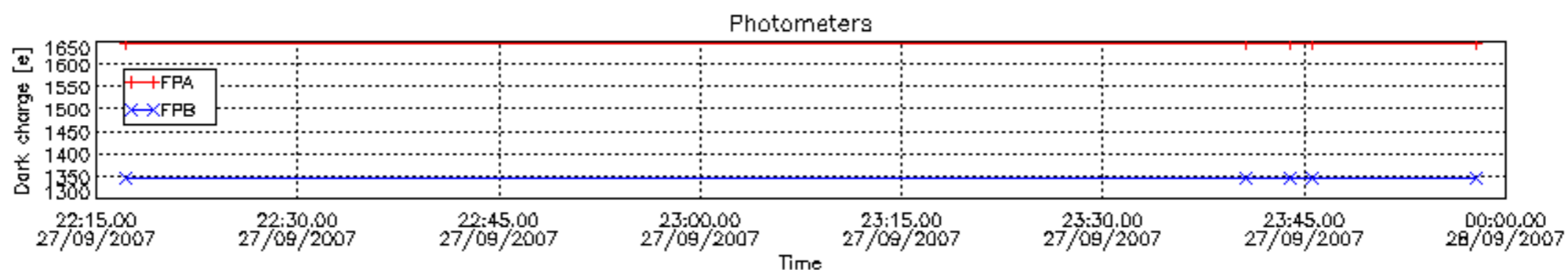
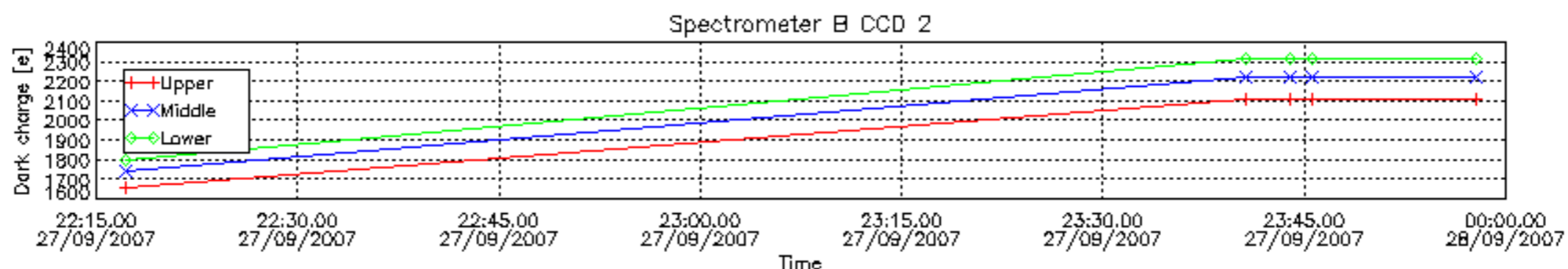
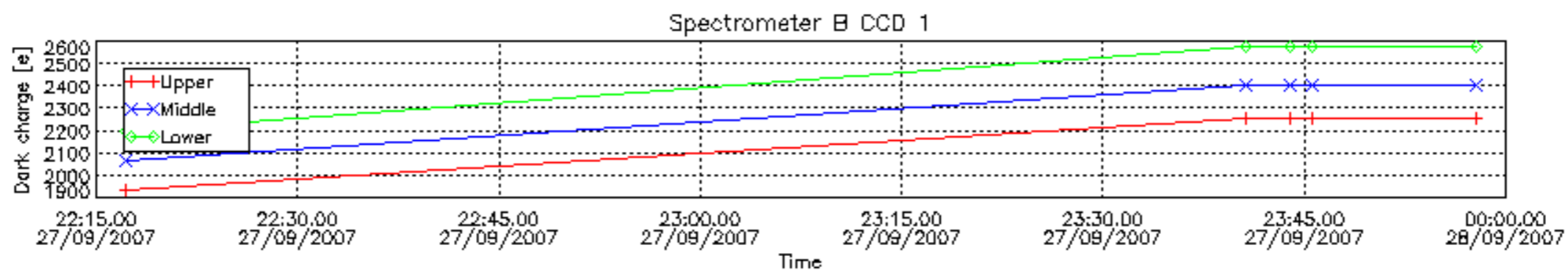
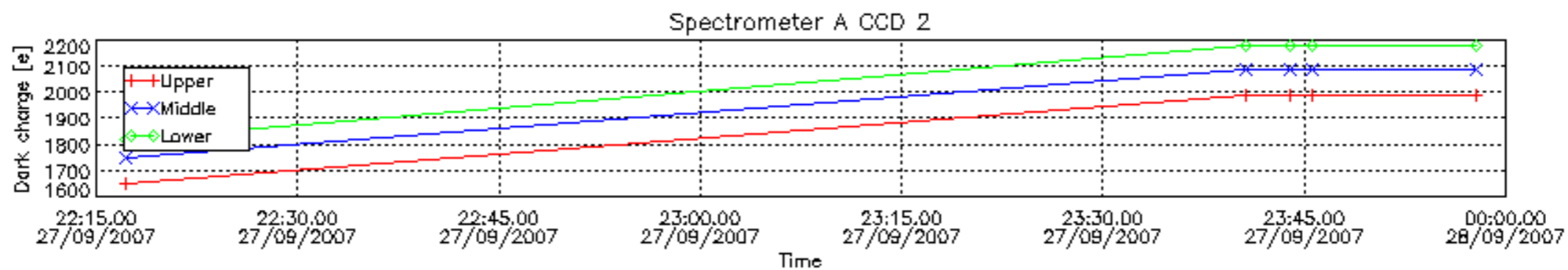
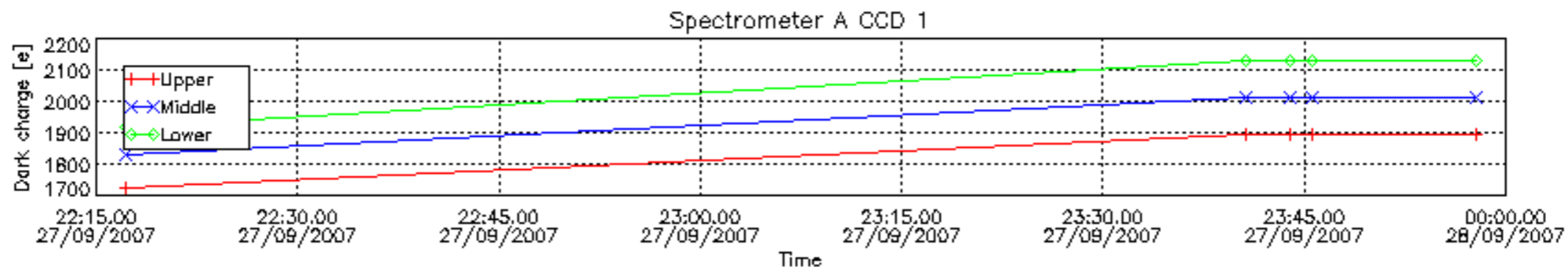
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

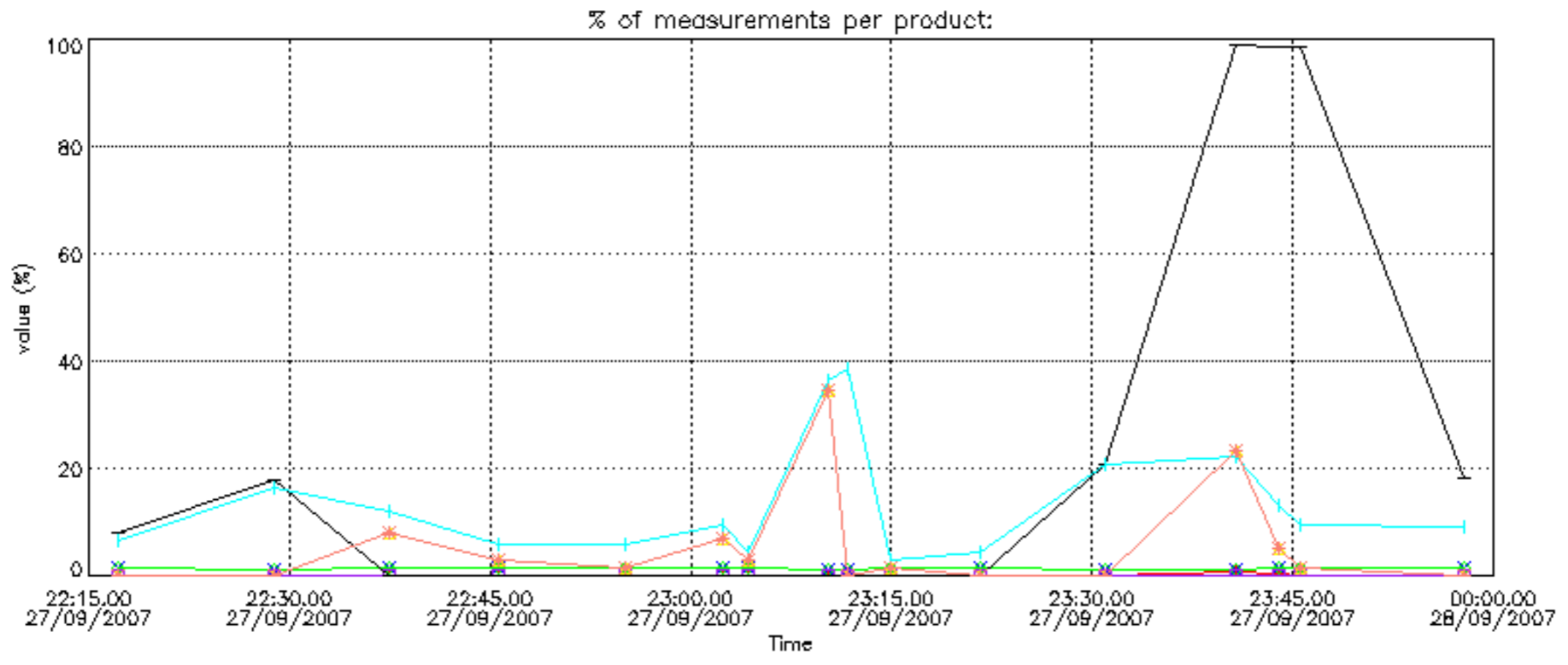
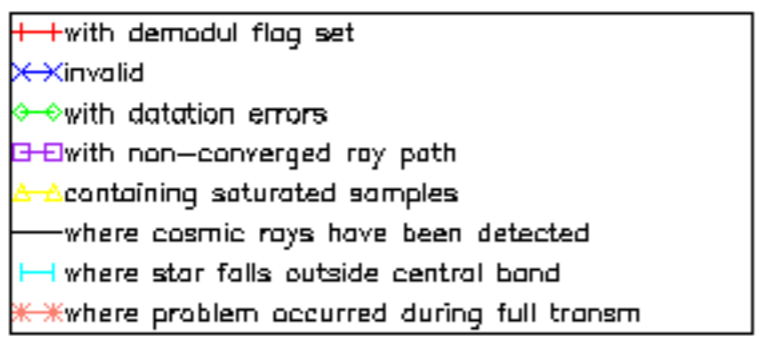
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-SEP-2007 22:17:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	27-SEP-2007 22:17:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-SEP-2007 22:17:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2007 22:17:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-SEP-2007 22:17:09
ECMWF_FILE	AUX_ECF_AXNECM20070927_060114_20070927_210000_20070928_090000	1	27-SEP-2007 22:17:09
OPTIONAL_ECMWF_FILE	MISSING	1	27-SEP-2007 22:17:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070927_202730_000044632062_00043_29155_4242.N1	1	27-SEP-2007 22:17:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070927_214153_000057382062_00043_29155_4243.N1	11	27-SEP-2007 23:21:35



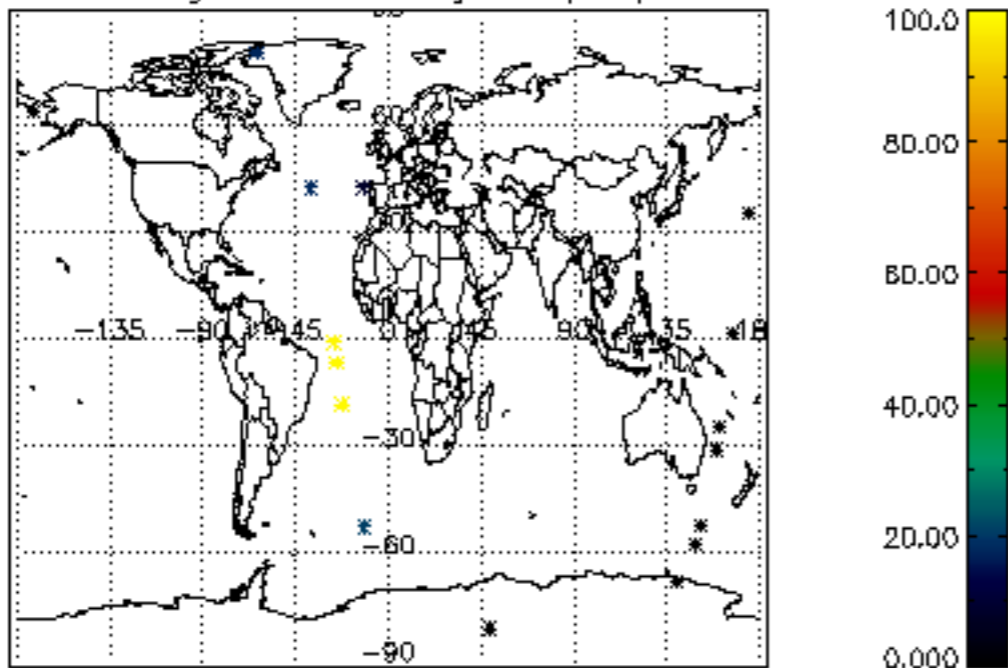




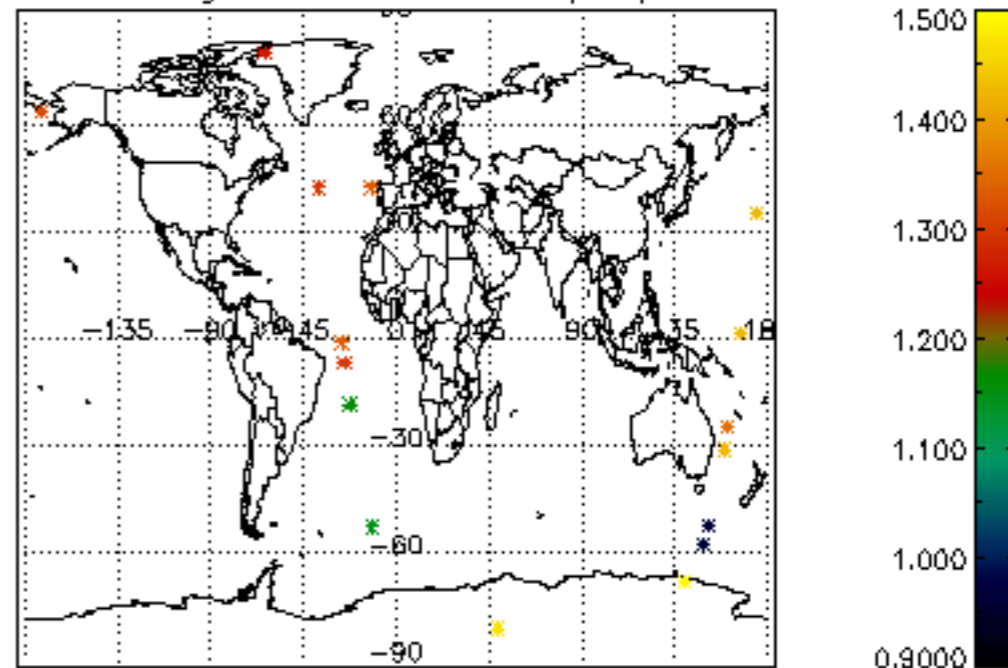




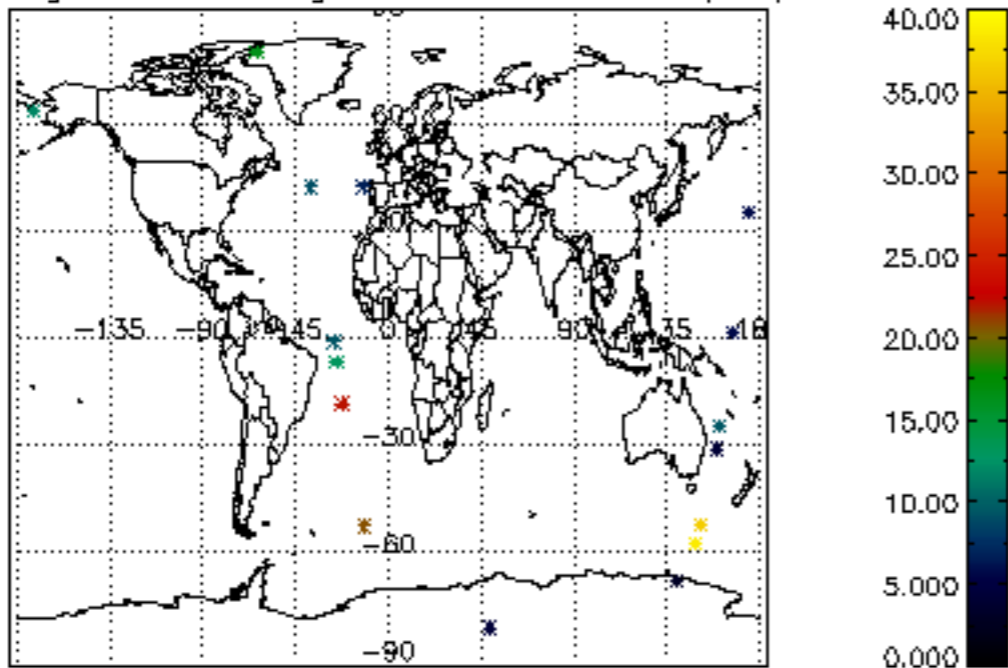
Percentage of cosmic ray hits per profile



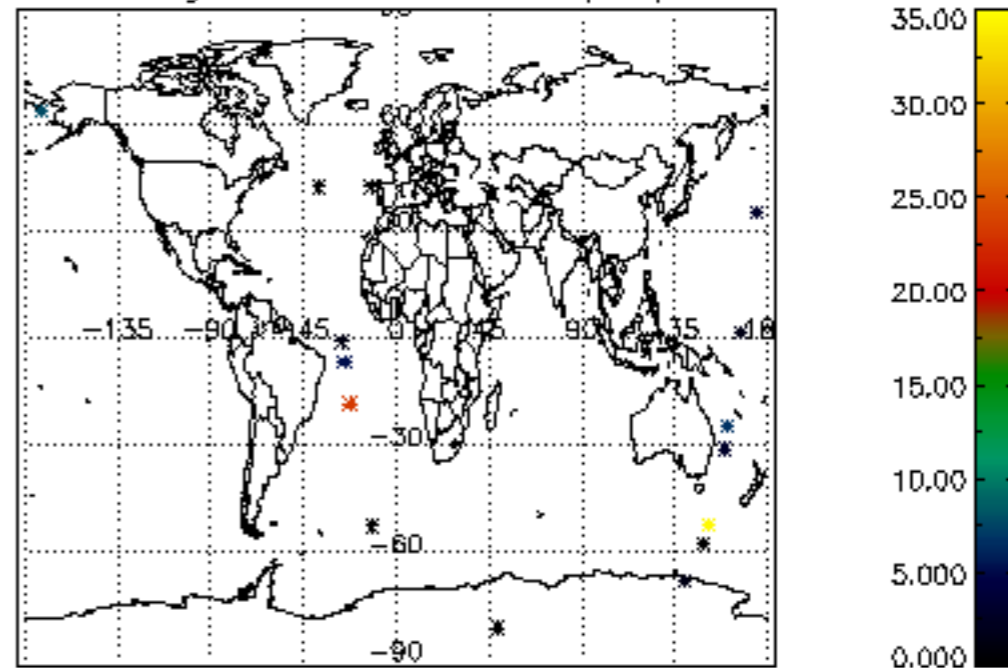
Percentage of datation errors per profile



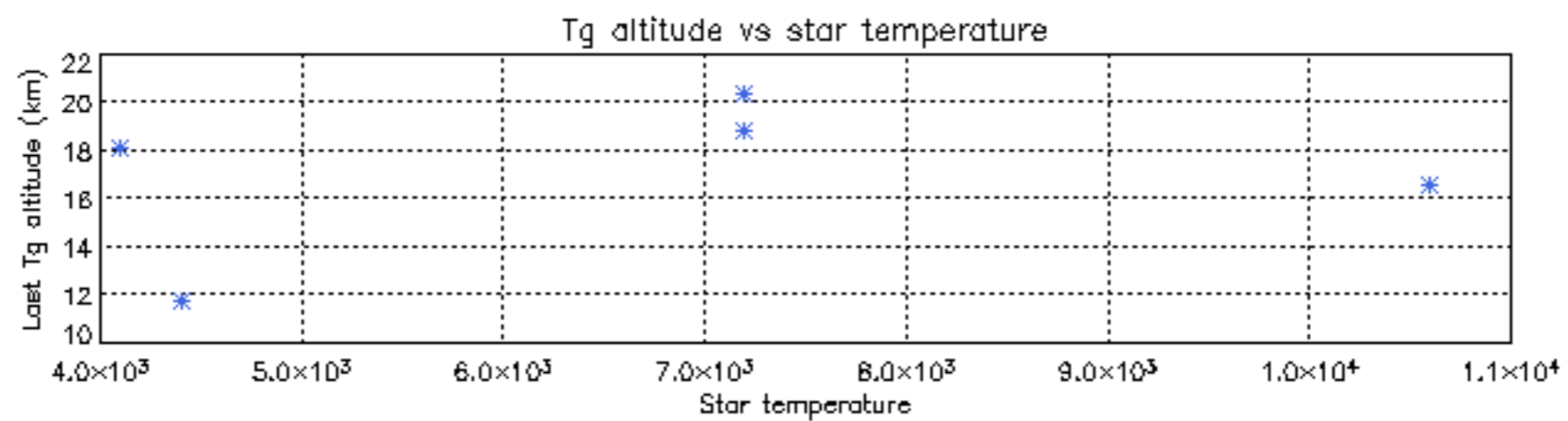
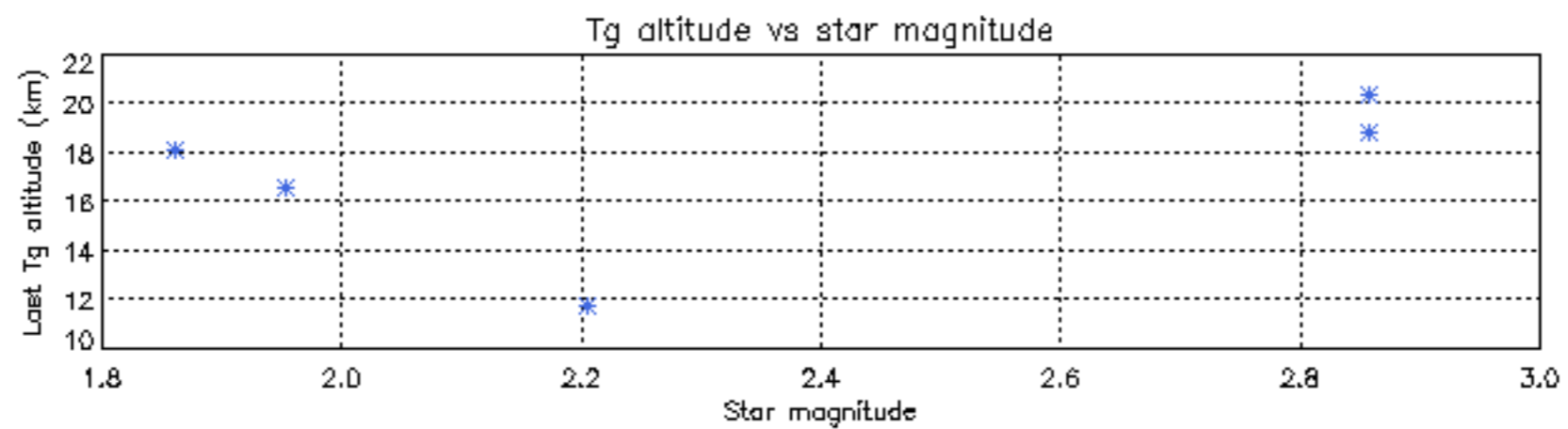
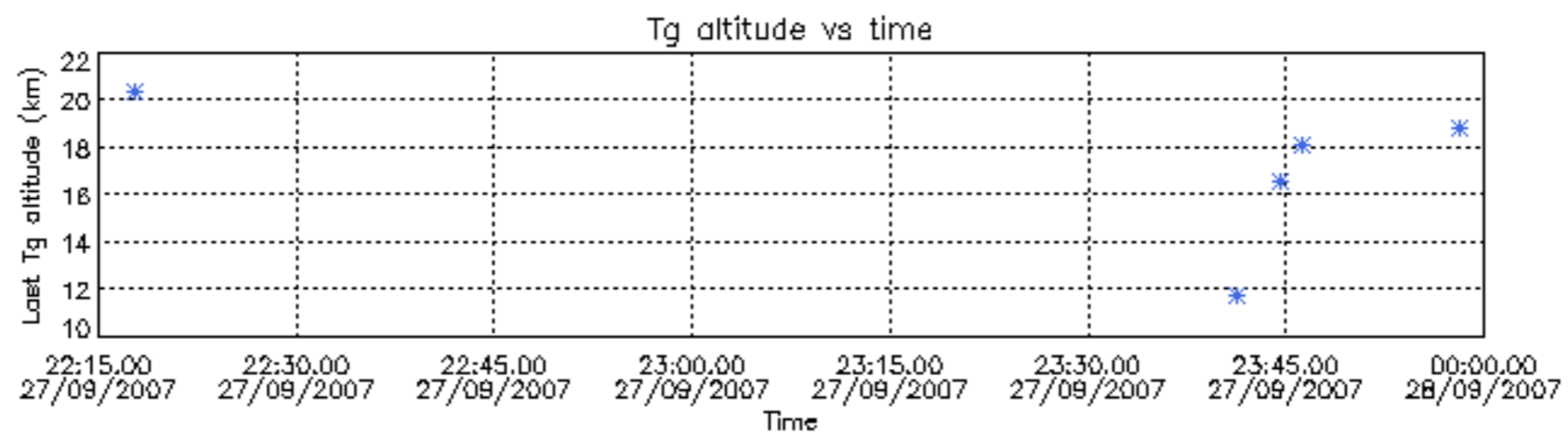
Percentage of star falling outside central band per profile



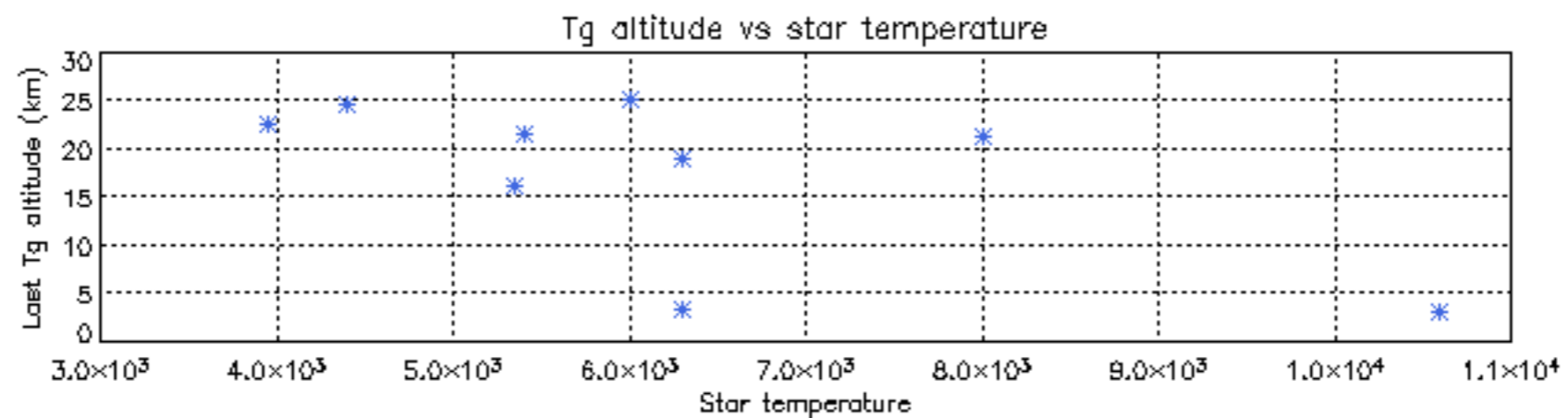
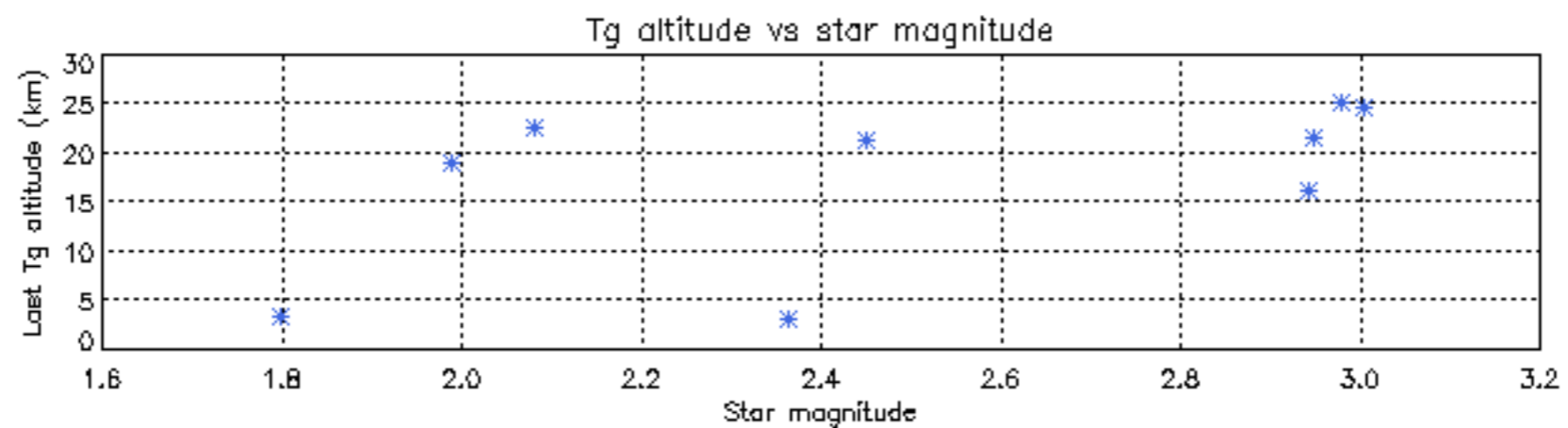
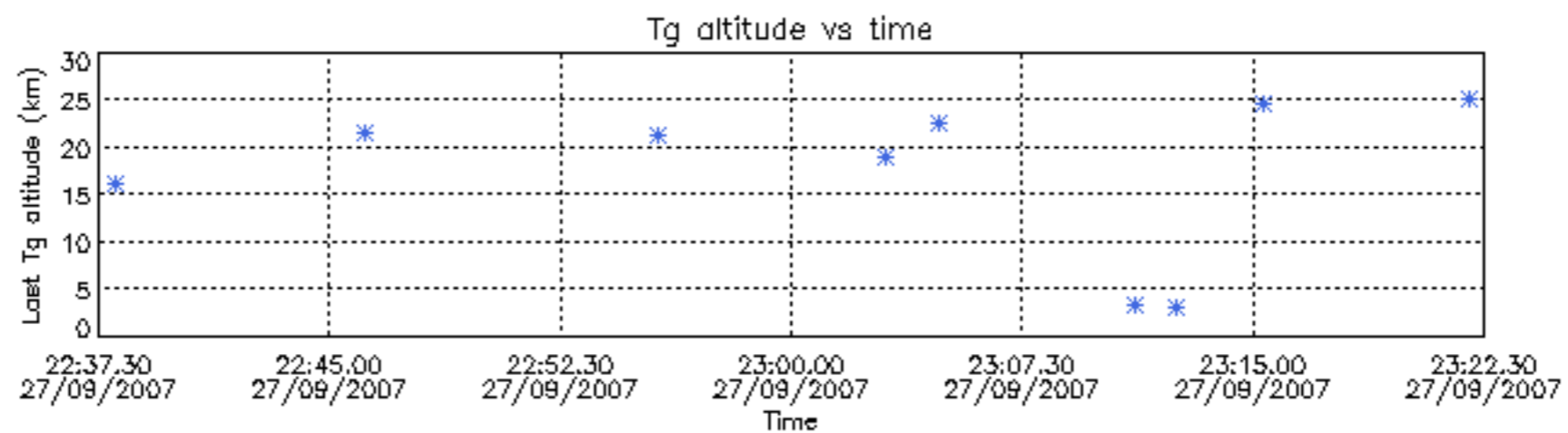
Percentage of saturation errors per profile



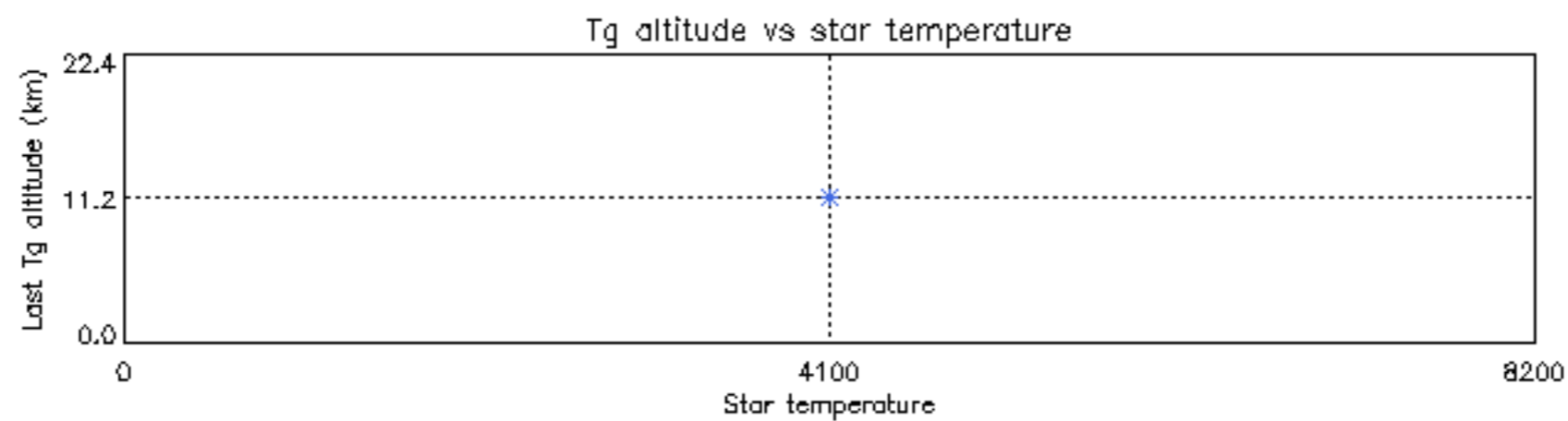
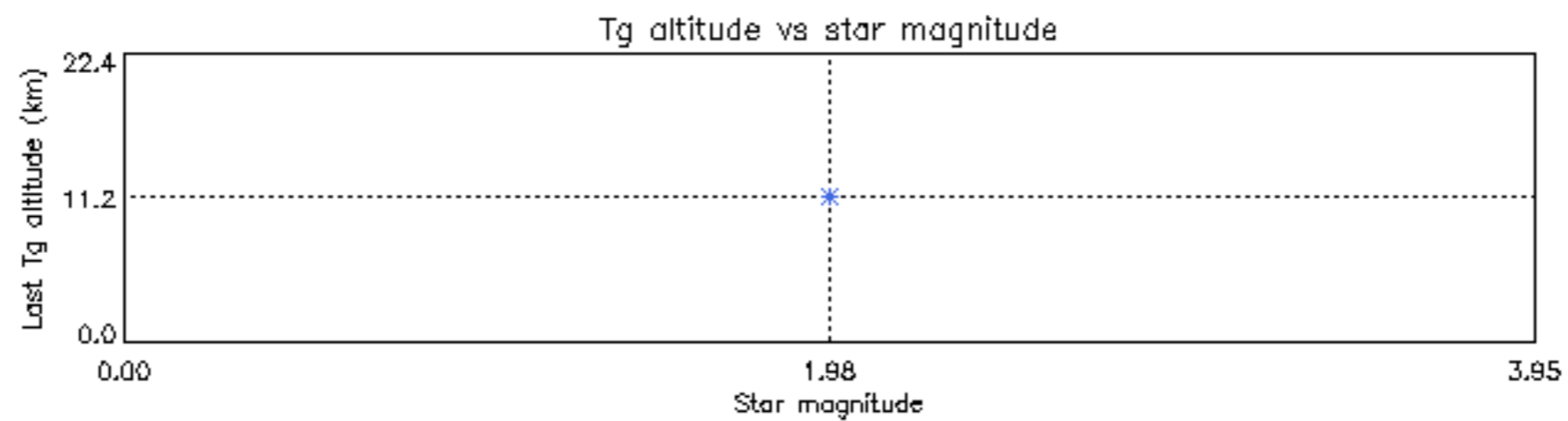
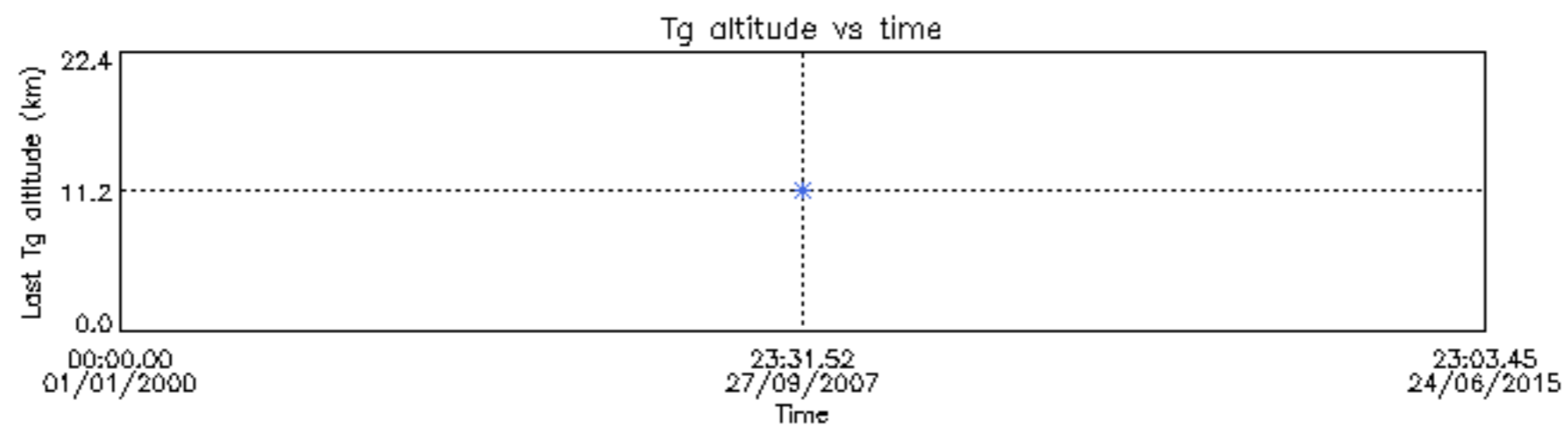
Tangent altitude at which the star is lost

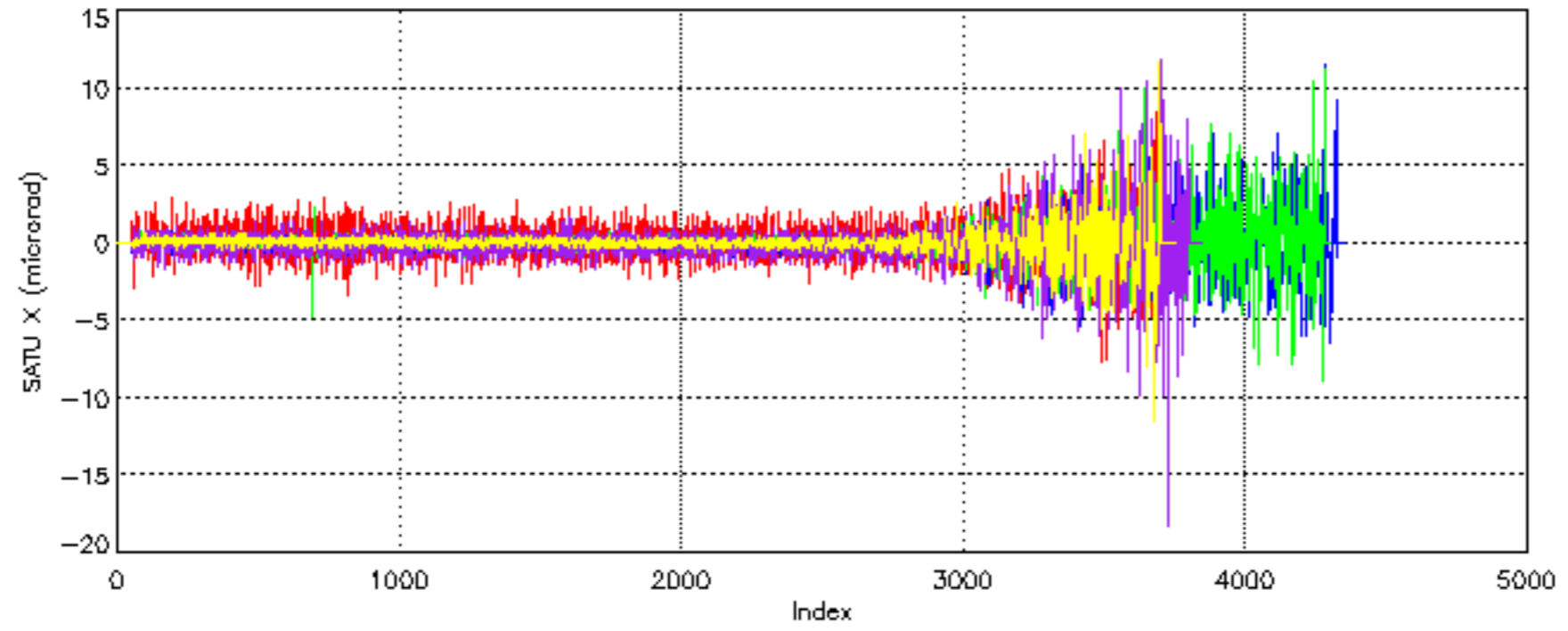


Tangent altitude at which the star is lost

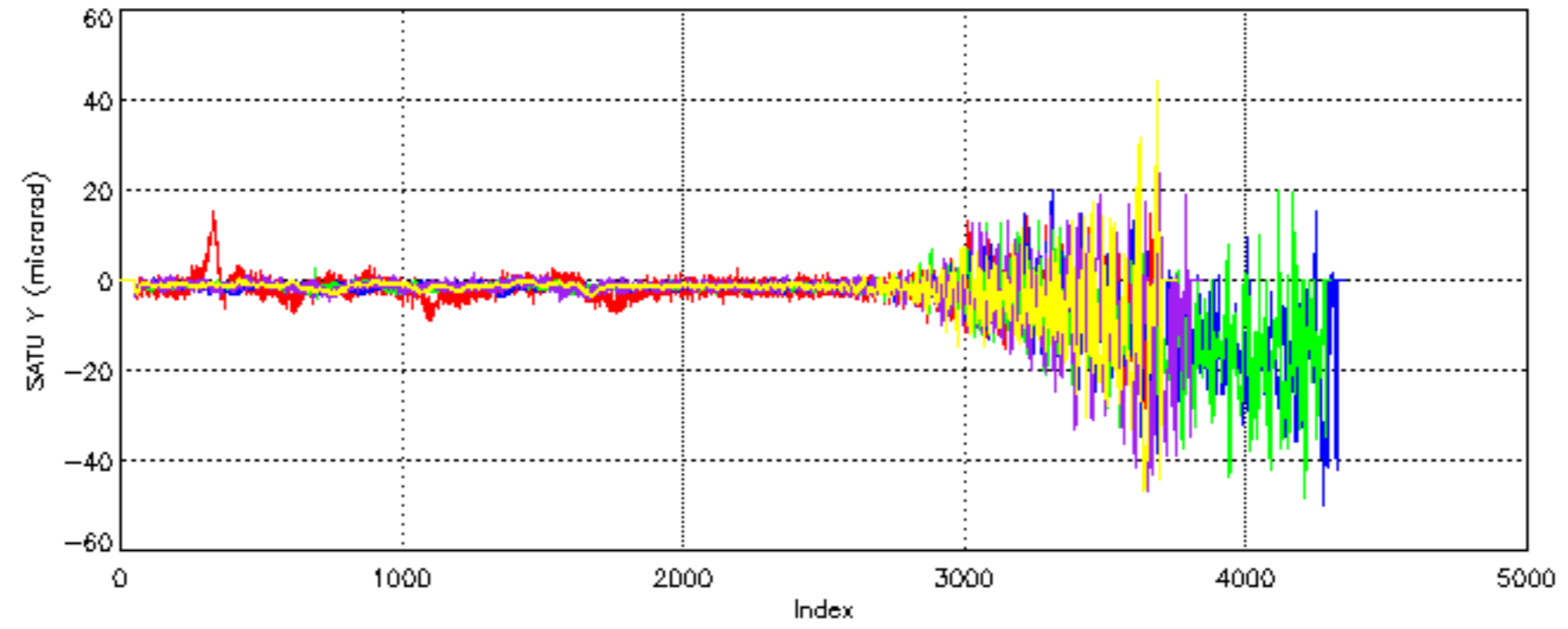


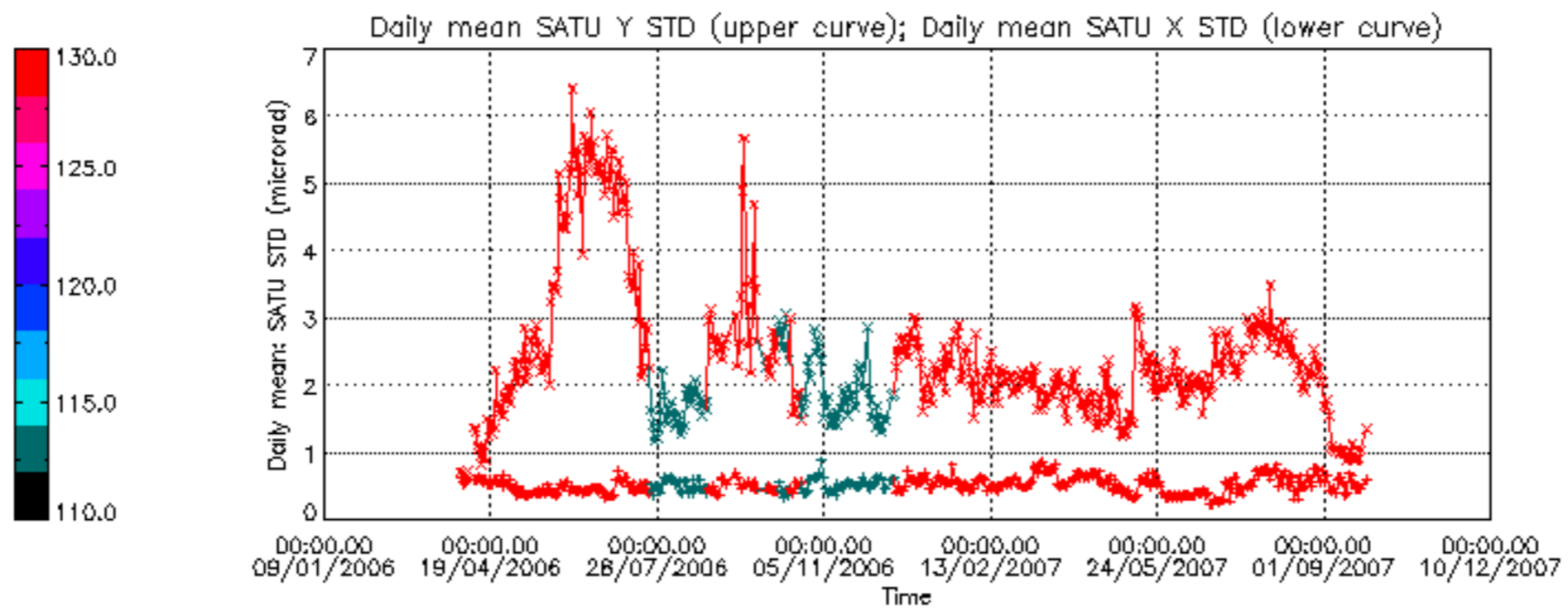
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070901\_002342\_000056242061\_00159\_28770\_4276.N1

1; -666.0; 01-SEP-2007 00:23:42; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28770  
 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770  
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770  
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771  
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771  
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771  
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771  
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771  
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771  
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771  
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771  
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771  
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771  
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771  
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771  
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771  
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771  
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070901\_020419\_000041312061\_00160\_28771\_4277.N1

1; -665.2; 01-SEP-2007 02:04:19; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;28771  
 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771  
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771  
 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772  
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772  
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772  
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772  
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772  
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772  
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772  
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772  
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772  
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772  
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;28772

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20070901\_032936\_000050522061\_00161\_28772\_4278.N1

1; -1584.1; 01-SEP-2007 03:29:36; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;28772  
 2; -1425.0; 01-SEP-2007 03:32:15; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28772  
 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772  
 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28772  
 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772  
 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772  
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772  
 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772  
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773  
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773  
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773  
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773  
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773  
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773  
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 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773  
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 3; 1808.1; 01-SEP-2007 16:10:20; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28780
 4; 1895.7; 01-SEP-2007 16:11:47; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28780
 5; 2075.5; 01-SEP-2007 16:14:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28780
 6; 2975.5; 01-SEP-2007 16:29:47; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28780
 7; 3434.7; 01-SEP-2007 16:37:26; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28780
 8; 4453.1; 01-SEP-2007 16:54:25; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28780
 9; 4613.0; 01-SEP-2007 16:57:04; Dark ; 50.0; 170; 27Eps Gem ; 3.00; 9700;occ; 100; 0;28780
10; 4915.9; 01-SEP-2007 17:02:07; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28780
11; 5376.4; 01-SEP-2007 17:09:48; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28780
12; 5541.5; 01-SEP-2007 17:12:33; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28780
13; 5643.2; 01-SEP-2007 17:14:15; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28780
14; 5737.8; 01-SEP-2007 17:15:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28780
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16; 6642.5; 01-SEP-2007 17:30:54; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;28780
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 3; 1620.0; 01-SEP-2007 17:47:47; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28781
 4; 1808.0; 01-SEP-2007 17:50:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28781
 5; 1895.7; 01-SEP-2007 17:52:23; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28781
 6; 2075.5; 01-SEP-2007 17:55:23; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28781
 7; 2975.4; 01-SEP-2007 18:10:23; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;28781
 8; 3434.7; 01-SEP-2007 18:18:02; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28781
 9; 4453.2; 01-SEP-2007 18:35:01; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28781
10; 4613.2; 01-SEP-2007 18:37:41; Dark ; 50.0; 170; 27Eps Gem ; 3.00; 9700;occ; 100; 0;28781
11; 4916.2; 01-SEP-2007 18:42:44; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28781
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13; 5542.0; 01-SEP-2007 18:53:09; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;28781
14; 5643.9; 01-SEP-2007 18:54:51; Dark ; 43.5; 177; 1Zet CMA ; 3.02; 26000;occ; 87; 0;28781
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17; 6643.2; 01-SEP-2007 19:11:31; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28781
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 3; 1620.2; 01-SEP-2007 19:28:24; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28782
 4; 1808.1; 01-SEP-2007 19:31:32; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28782
 5; 1895.4; 01-SEP-2007 19:32:59; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;28782
 6; 2075.4; 01-SEP-2007 19:35:59; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28782
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 8; 3434.6; 01-SEP-2007 19:58:38; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28782
 9; 4453.2; 01-SEP-2007 20:15:37; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;28782
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11; 4916.4; 01-SEP-2007 20:23:20; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28782
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13; 5542.3; 01-SEP-2007 20:33:46; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;28782
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 2; -491.9; 02-SEP-2007 01:35:35; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28785
 3; -294.9; 02-SEP-2007 01:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28785
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7; 1053.6; 02-SEP-2007 02:01:21; Dark ; 43.0; 63; Bet Gru ; 2.15; 2800;occ; 86; 0;28786  
8; 1332.0; 02-SEP-2007 02:05:59; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;28786  
9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786  
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786  
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8; -87.1; 02-SEP-2007 03:22:56; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;28786  
9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787  
10; 610.4; 02-SEP-2007 03:34:33; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28787  
11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787  
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15; 1895.7; 02-SEP-2007 03:55:59; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28787  
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787  
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9; 533.3; 02-SEP-2007 05:13:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28788  
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11; 1054.4; 02-SEP-2007 05:22:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28788  
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17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788  
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3; 1622.3; 02-SEP-2007 20:37:25; Dark ; 48.0; 142; 49Del Cap ; 2.85; 8900;occ; 96; 0;28797  
4; 1809.5; 02-SEP-2007 20:40:32; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28797  
5; 1895.5; 02-SEP-2007 20:41:58; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28797  
6; 2074.9; 02-SEP-2007 20:44:57; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28797  
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797  
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7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798  
8; 616.9; 02-SEP-2007 22:01:15; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;28798

9; 1057.3; 02-SEP-2007 22:08:35; Dark ; 44.0; 63; Bet Gru ; 2.15; 2800;occ; 88; 0;28798  
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 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798  
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 19; 5387.6; 02-SEP-2007 23:20:46; Dark ; 12.0; 1; 9Alp CMA ; -1.44; 11000;occ; 24; 0;28798

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 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799  
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 12; 1333.0; 02-SEP-2007 07:07:48; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;28789  
 13; 1621.3; 02-SEP-2007 07:12:36; Dark ; 52.5; 142; 49Del Cap ; 2.85; 8900;occ; 105; 0;28789

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 16; 7369.2; 02-SEP-2007 08:48:24; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28789  
 17; 7657.2; 02-SEP-2007 08:53:12; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28789  
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 3; 1895.5; 02-SEP-2007 13:59:34; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28793  
 4; 2075.1; 02-SEP-2007 14:02:33; Bright; 36.5; 61; 8Eps Peg ; 2.10; 3900;occ; 73; 0;28793  
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 3; 3055.2; 12-SEP-2007 09:02:42; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;28933  
 4; 3169.6; 12-SEP-2007 09:04:37; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28933  
 5; 4473.9; 12-SEP-2007 09:26:21; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;28933  
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 9; 5770.7; 12-SEP-2007 09:47:58; Dark ; 46.0; 177; 1Zet CMa ; 3.02; 26000;occ; 92; 0;28933  
 10; 5853.8; 12-SEP-2007 09:49:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28933  
 11; 6024.5; 12-SEP-2007 09:52:12; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;28933  
 12; 6646.1; 12-SEP-2007 10:02:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28933  
 13; 6730.0; 12-SEP-2007 10:03:57; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;28933  
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 3; 3054.7; 12-SEP-2007 10:43:18; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;28934  
 4; 3168.9; 12-SEP-2007 10:45:12; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;28934  
 5; 4473.9; 12-SEP-2007 11:06:57; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;28934  
 6; 4974.6; 12-SEP-2007 11:15:18; Dark ; 54.5; 8; 10Alp CMi ; 0.40; 6500;occ; 109; 0;28934  
 7; 5493.5; 12-SEP-2007 11:23:57; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;28934  
 8; 5637.7; 12-SEP-2007 11:26:21; Dark ; 47.0; 23; 21Eps CMa ; 1.50; 26000;occ; 94; 0;28934  
 9; 5771.7; 12-SEP-2007 11:28:35; Dark ; 46.5; 177; 1Zet CMa ; 3.02; 26000;occ; 93; 0;28934  
 10; 5854.6; 12-SEP-2007 11:29:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28934  
 11; 6025.0; 12-SEP-2007 11:32:48; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;28934  
 12; 6646.6; 12-SEP-2007 11:43:10; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28934  
 13; 6730.5; 12-SEP-2007 11:44:34; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;28934  
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 2; 2445.6; 12-SEP-2007 12:13:44; Bright; 39.5; 164; 44Eta Peg ; 2.95; 5400;occ; 79; 0;28935  
 3; 3054.2; 12-SEP-2007 12:23:53; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28935  
 4; 3168.2; 12-SEP-2007 12:25:47; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;28935  
 5; 4474.2; 12-SEP-2007 12:47:33; Bright; 47.5; 24; 66Alp Gem ; 1.58; 10200;occ; 95; 0;28935  
 6; 4975.1; 12-SEP-2007 12:55:54; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;28935  
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 3; 3053.8; 12-SEP-2007 14:04:29; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;28936  
 4; 3167.7; 12-SEP-2007 14:06:22; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28936  
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 6; 4975.7; 12-SEP-2007 14:36:30; Dark ; 57.5; 8; 10Alp CMi ; 0.40; 6500;occ; 115; 0;28936  
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 9; 5773.9; 12-SEP-2007 14:49:49; Dark ; 46.0; 177; 1Zet CMa ; 3.02; 26000;occ; 92; 0;28936  
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 3; 2444.9; 12-SEP-2007 15:34:56; Bright; 39.0; 164; 44Eta Peg ; 2.95; 5400;occ; 78; 0;28937  
 4; 3053.3; 12-SEP-2007 15:45:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28937

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6; 4474.6; 12-SEP-2007 16:08:45; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;28937
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9; 5640.1; 12-SEP-2007 16:28:11; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28937
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3; 2444.7; 12-SEP-2007 17:15:31; Bright; 38.5; 164; 44Eta Peg ; 2.95; 5400;occ; 77; 0;28938
4; 3052.8; 12-SEP-2007 17:25:39; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;28938
5; 3166.5; 12-SEP-2007 17:27:33; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;28938
6; 4474.8; 12-SEP-2007 17:49:21; Bright; 43.0; 24; 66Alp Gem ; 1.58; 10200;occ; 86; 0;28938
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9; 5640.9; 12-SEP-2007 18:08:48; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28938
10; 5775.8; 12-SEP-2007 18:11:02; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;28938
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3; 2190.6; 12-SEP-2007 18:51:53; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;28939
4; 2444.5; 12-SEP-2007 18:56:07; Bright; 37.5; 164; 44Eta Peg ; 2.95; 5400;occ; 75; 0;28939
5; 3052.3; 12-SEP-2007 19:06:15; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;28939
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11; 5776.8; 12-SEP-2007 19:51:39; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;28939
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14; 6649.2; 12-SEP-2007 20:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28939
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8; 1370.4; 13-SEP-2007 01:20:37; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;28943
9; 2189.3; 13-SEP-2007 01:34:16; Bright; 41.0; 90; 54Alp Peg ; 2.49; 11000;occ; 82; 0;28943
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13; 4475.3; 13-SEP-2007 02:12:22; Bright; 42.0; 24; 66Alp Gem ; 1.58; 10200;occ; 84; 0;28943
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6; 615.3; 13-SEP-2007 02:48:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;28944
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11; 2443.2; 13-SEP-2007 03:19:05; Bright; 39.5; 164; 44Eta Peg ; 2.95; 5400;occ; 79; 0;28944
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11; 1370.9; 13-SEP-2007 04:41:49; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;28945
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14; 3049.4; 13-SEP-2007 05:09:47; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;28945
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4; 1.8; 14-SEP-2007 00:26:11; Dark ; 54.5; 2; Alp Car ; -0.74; 7000;occ; 109; 0;28957
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8; 2186.1; 14-SEP-2007 01:02:35; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;28957
9; 2421.5; 14-SEP-2007 01:06:31; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;28957
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11; 3154.9; 14-SEP-2007 01:18:44; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;28957
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9; 2421.2; 14-SEP-2007 02:47:06; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;28958
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5; 3148.1; 14-SEP-2007 21:25:48; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28969
6; 4478.7; 14-SEP-2007 21:47:59; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;28969
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8; 2183.5; 14-SEP-2007 22:50:20; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;28970
9; 2417.6; 14-SEP-2007 22:54:14; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;28970
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9; 2417.3; 15-SEP-2007 00:34:49; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;28971
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4; 3152.8; 14-SEP-2007 08:01:06; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;28961
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