

# GOMOS Daily Report 03-OCT-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	05OCT2007 05:37:15
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (03OCT2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

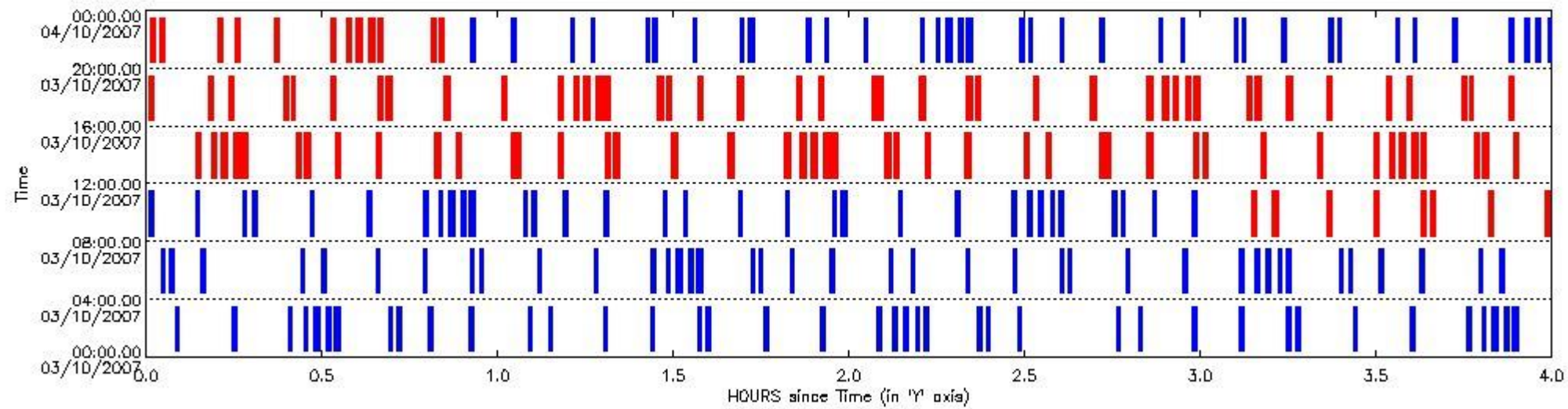
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
03-OCT-2007 11:08:42	54AlpPeg	90	29235
03-OCT-2007 11:12:19	53BetPeg	93	29235
03-OCT-2007 11:21:37	11BetCas	74	29235
03-OCT-2007 11:29:41	1AlpUMi	49	29235
03-OCT-2007 11:37:41	50AlpUMa	36	29235
03-OCT-2007 11:39:12	48BetUMa	82	29235
03-OCT-2007 11:49:06	17EpsLeo	166	29235
03-OCT-2007 11:58:46	30AlpHya	48	29235
03-OCT-2007 12:08:26	LamVel	65	29235
03-OCT-2007 12:11:06	Gam2Vel	34	29235
03-OCT-2007 12:12:49	DSA1055	0	29235
03-OCT-2007 12:14:57	TauPup	161	29236
03-OCT-2007 12:16:21	AlpCar	2	29236
03-OCT-2007 12:25:32	AlpHyi	143	29236
03-OCT-2007 12:26:59	AlpEri	9	29236

03-OCT-2007 12:32:18	AlpPhe	84	29236
03-OCT-2007 12:39:10	16BetCet	52	29236
03-OCT-2007 12:49:18	54AlpPeg	90	29236
03-OCT-2007 12:52:55	53BetPeg	93	29236
03-OCT-2007 13:02:13	11BetCas	74	29236
03-OCT-2007 13:03:29	27GamCas	76	29236
03-OCT-2007 13:10:17	1AlpUMi	49	29236
03-OCT-2007 13:18:17	50AlpUMa	36	29236
03-OCT-2007 13:19:48	48BetUMa	82	29236
03-OCT-2007 13:29:42	17EpsLeo	166	29236
03-OCT-2007 13:39:22	30AlpHya	48	29236
03-OCT-2007 13:49:02	LamVel	65	29236
03-OCT-2007 13:51:43	Gam2Vel	34	29236
03-OCT-2007 13:53:25	DSA1055	0	29236
03-OCT-2007 13:55:34	TauPup	161	29237
03-OCT-2007 13:56:58	AlpCar	2	29237
03-OCT-2007 14:06:08	AlpHyi	143	29237
03-OCT-2007 14:07:36	AlpEri	9	29237
03-OCT-2007 14:12:54	AlpPhe	84	29237
03-OCT-2007 14:19:46	16BetCet	52	29237
03-OCT-2007 14:29:54	54AlpPeg	90	29237
03-OCT-2007 14:33:31	53BetPeg	93	29237
03-OCT-2007 14:42:48	11BetCas	74	29237
03-OCT-2007 14:44:05	27GamCas	76	29237
03-OCT-2007 14:50:52	1AlpUMi	49	29237
03-OCT-2007 14:58:53	50AlpUMa	36	29237
03-OCT-2007 15:00:24	48BetUMa	82	29237
03-OCT-2007 15:10:18	17EpsLeo	166	29237
03-OCT-2007 15:19:58	30AlpHya	48	29237
03-OCT-2007 15:29:39	LamVel	65	29237
03-OCT-2007 15:32:19	Gam2Vel	34	29237
03-OCT-2007 15:34:02	DSA1055	0	29237
03-OCT-2007 15:36:10	TauPup	161	29238
03-OCT-2007 15:37:35	AlpCar	2	29238
03-OCT-2007 15:46:44	AlpHyi	143	29238
03-OCT-2007 15:48:12	AlpEri	9	29238
03-OCT-2007 15:53:30	AlpPhe	84	29238
03-OCT-2007 16:00:22	16BetCet	52	29238
03-OCT-2007 16:10:30	54AlpPeg	90	29238
03-OCT-2007 16:14:07	53BetPeg	93	29238
03-OCT-2007 16:23:24	11BetCas	74	29238
03-OCT-2007 16:24:40	27GamCas	76	29238
03-OCT-2007 16:31:28	1AlpUMi	49	29238
03-OCT-2007 16:39:29	50AlpUMa	36	29238
03-OCT-2007 16:41:00	48BetUMa	82	29238
03-OCT-2007 16:50:54	17EpsLeo	166	29238
03-OCT-2007 17:00:35	30AlpHya	48	29238
03-OCT-2007 17:10:15	LamVel	65	29238
03-OCT-2007 17:12:56	Gam2Vel	34	29238
03-OCT-2007 17:14:39	DSA1055	0	29238
03-OCT-2007 17:16:47	TauPup	161	29239
03-OCT-2007 17:18:11	AlpCar	2	29239
03-OCT-2007 17:27:20	AlpHyi	143	29239
03-OCT-2007 17:28:48	AlpEri	9	29239
03-OCT-2007 17:34:07	AlpPhe	84	29239
03-OCT-2007 17:40:58	16BetCet	52	29239
03-OCT-2007 17:51:06	54AlpPeg	90	29239
03-OCT-2007 17:54:43	53BetPeg	93	29239
03-OCT-2007 18:04:00	11BetCas	74	29239

03-OCT-2007 18:05:16	27GamCas	76	29239
03-OCT-2007 18:12:04	1AlpUMi	49	29239
03-OCT-2007 18:20:05	50AlpUMa	36	29239
03-OCT-2007 18:21:36	48BetUMa	82	29239
03-OCT-2007 18:31:30	17EpsLeo	166	29239
03-OCT-2007 18:41:11	30AlpHya	48	29239
03-OCT-2007 18:50:51	LamVel	65	29239
03-OCT-2007 18:53:32	Gam2Vel	34	29239
03-OCT-2007 18:55:16	DSA1055	0	29239
03-OCT-2007 18:57:24	TauPup	161	29240
03-OCT-2007 18:58:48	AlpCar	2	29240
03-OCT-2007 19:07:57	AlpHyi	143	29240
03-OCT-2007 19:09:24	AlpEri	9	29240
03-OCT-2007 19:14:43	AlpPhe	84	29240
03-OCT-2007 19:21:34	16BetCet	52	29240
03-OCT-2007 19:31:42	54AlpPeg	90	29240
03-OCT-2007 19:35:19	53BetPeg	93	29240
03-OCT-2007 19:44:35	11BetCas	74	29240
03-OCT-2007 19:45:52	27GamCas	76	29240
03-OCT-2007 19:52:40	1AlpUMi	49	29240
03-OCT-2007 20:00:41	50AlpUMa	36	29240
03-OCT-2007 20:02:12	48BetUMa	82	29240
03-OCT-2007 20:12:07	17EpsLeo	166	29240
03-OCT-2007 20:15:12	32AlpLeo	22	29240
03-OCT-2007 20:21:47	30AlpHya	48	29240
03-OCT-2007 20:31:28	LamVel	65	29240
03-OCT-2007 20:34:09	Gam2Vel	34	29240
03-OCT-2007 20:35:52	DSA1055	0	29240
03-OCT-2007 20:38:00	TauPup	161	29241
03-OCT-2007 20:39:25	AlpCar	2	29241
03-OCT-2007 20:48:33	AlpHyi	143	29241
03-OCT-2007 20:50:01	AlpEri	9	29241

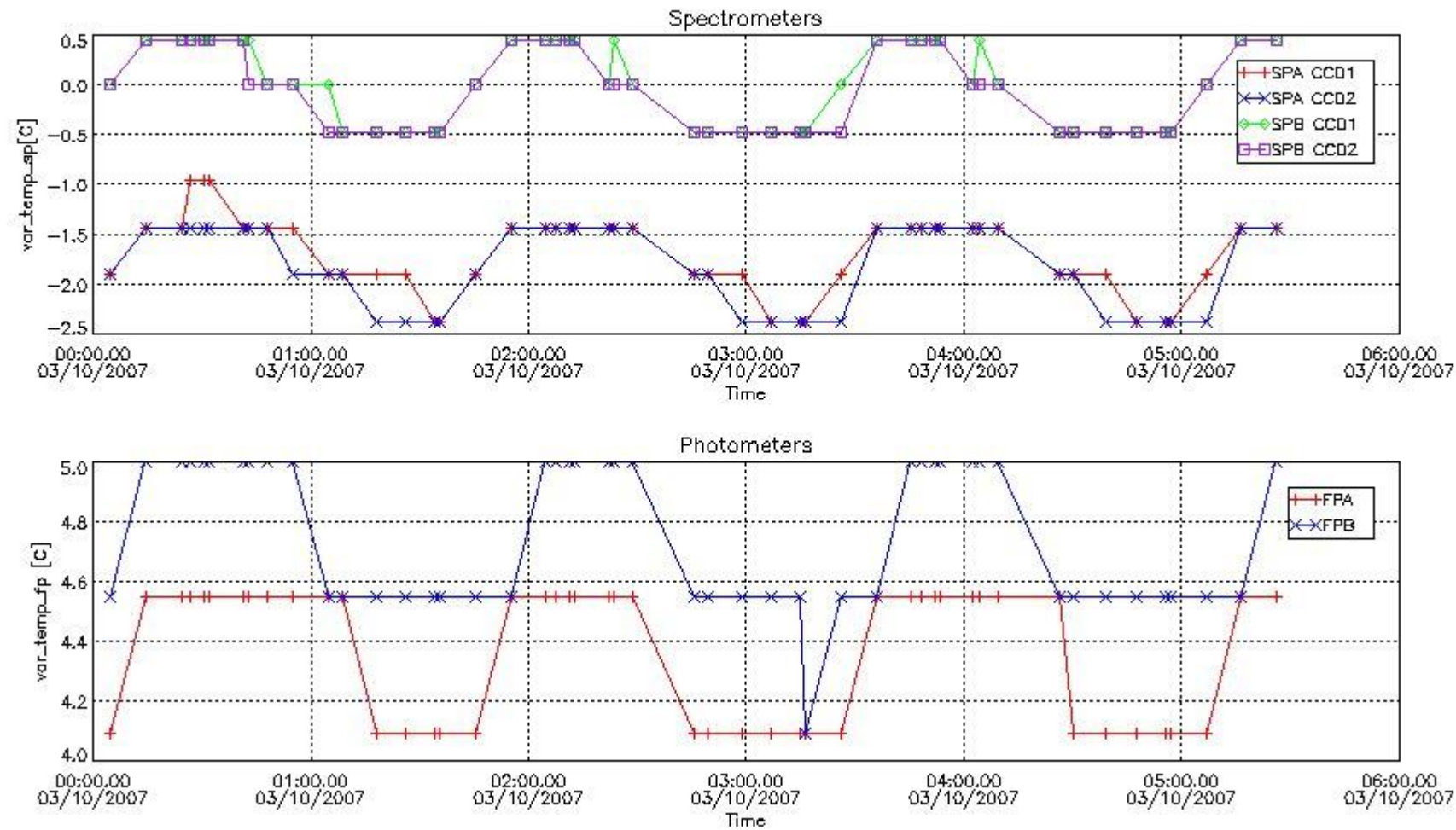
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20071003_000456_000000352062_00116_29228_8357.N1	03-OCT-2007 00:04:56	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	29228	No
2	GOM_TRA_1PNPDE20071003_001434_000000452062_00116_29228_8358.N1	03-OCT-2007 00:14:34	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	29228	No
3	GOM_TRA_1PNPDE20071003_002414_000000422062_00116_29228_8495.N1	03-OCT-2007 00:24:14	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29228	No
4	GOM_TRA_1PNPDE20071003_002654_000000412062_00116_29228_8496.N1	03-OCT-2007 00:26:54	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	29228	No
5	GOM_TRA_1PNPDE20071003_003043_000000422062_00117_29229_8497.N1	03-OCT-2007 00:30:43	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	29229	No
6	GOM_TRA_1PNPDE20071003_003207_000000602062_00117_29229_8498.N1	03-OCT-2007 00:32:07	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	29229	No
7	GOM_TRA_1PNPDE20071003_004120_000000392062_00117_29229_8499.N1	03-OCT-2007 00:41:20	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29229	No
8	GOM_TRA_1PNPDE20071003_004248_000000452062_00117_29229_8500.N1	03-OCT-2007 00:42:48	Dark	45.000	9	Alp Eri	0.45300	24000.	90	29229	No
9	GOM_TRA_1PNPDE20071003_004807_000000432062_00117_29229_8501.N1	03-OCT-2007 00:48:07	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	29229	No
10	GOM_TRA_1PNPDE20071003_005500_000000492062_00117_29229_8502.N1	03-OCT-2007 00:55:00	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	29229	No
11	GOM_TRA_1PNPDE20071003_010509_000000372062_00117_29229_8503.N1	03-OCT-2007 01:05:09	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29229	No
12	GOM_TRA_1PNPDE20071003_010846_000000372062_00117_29229_8504.N1	03-OCT-2007 01:08:46	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	29229	No
13	GOM_TRA_1PNPDE20071003_011806_000000392062_00117_29229_8505.N1	03-OCT-2007 01:18:06	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	29229	No
14	GOM_TRA_1PNPDE20071003_012608_000000352062_00117_29229_8506.N1	03-OCT-2007 01:26:08	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29229	No
15	GOM_TRA_1PNPDE20071003_013408_000000362062_00117_29229_8507.N1	03-OCT-2007 01:34:08	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29229	No
16	GOM_TRA_1PNPDE20071003_013538_000000412062_00117_29229_8508.N1	03-OCT-2007 01:35:38	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	29229	No
17	GOM_TRA_1PNPDE20071003_014532_000000362062_00117_29229_8509.N1	03-OCT-2007 01:45:32	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	29229	No
18	GOM_TRA_1PNPDE20071003_015510_000000452062_00117_29229_8640.N1	03-OCT-2007 01:55:10	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29229	No
19	GOM_TRA_1PNPDE20071003_020451_000000412062_00117_29229_8641.N1	03-OCT-2007 02:04:51	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	29229	No
20	GOM_TRA_1PNPDE20071003_020730_000000432062_00117_29229_8642.N1	03-OCT-2007 02:07:30	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	29229	No
21	GOM_TRA_1PNPDE20071003_021120_000000432062_00118_29230_8643.N1	03-OCT-2007 02:11:20	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	29230	No
22	GOM_TRA_1PNPDE20071003_021244_000000462062_00118_29230_8644.N1	03-OCT-2007 02:12:44	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	29230	No

23	GOM_TRA_1PNPDE20071003_022157_000000392062_00118_29230_8645.N1	03-OCT-2007 02:21:57	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29230	No
24	GOM_TRA_1PNPDE20071003_022324_000000422062_00118_29230_8646.N1	03-OCT-2007 02:23:24	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29230	No
25	GOM_TRA_1PNPDE20071003_022844_000000392062_00118_29230_8647.N1	03-OCT-2007 02:28:44	Straylight	39.000	84	Alp Phe	2.3970	4500.0	78	29230	No
26	GOM_TRA_1PNPDE20071003_024545_000000372062_00118_29230_8648.N1	03-OCT-2007 02:45:45	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29230	No
27	GOM_TRA_1PNPDE20071003_024922_000000362062_00118_29230_8649.N1	03-OCT-2007 02:49:22	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	29230	No
28	GOM_TRA_1PNPDE20071003_025841_000000382062_00118_29230_8650.N1	03-OCT-2007 02:58:41	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	29230	No
29	GOM_TRA_1PNPDE20071003_030644_000000362062_00118_29230_8651.N1	03-OCT-2007 03:06:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29230	No
30	GOM_TRA_1PNPDE20071003_031444_000000362062_00118_29230_8753.N1	03-OCT-2007 03:14:44	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29230	No
31	GOM_TRA_1PNPDE20071003_031614_000000522062_00118_29230_8754.N1	03-OCT-2007 03:16:14	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29230	No
32	GOM_TRA_1PNPDE20071003_032608_000000352062_00118_29230_8755.N1	03-OCT-2007 03:26:08	Bright	35.000	166	17Eps Leo	2.9800	6000.0	70	29230	No
33	GOM_TRA_1PNPDE20071003_033547_000000452062_00118_29230_8756.N1	03-OCT-2007 03:35:47	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29230	No
34	GOM_TRA_1PNPDE20071003_034527_000000432062_00118_29230_8757.N1	03-OCT-2007 03:45:27	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	29230	No
35	GOM_TRA_1PNPDE20071003_034807_000000392062_00118_29230_8758.N1	03-OCT-2007 03:48:07	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	29230	No
36	GOM_TRA_1PNPDE20071003_035156_000000422062_00119_29231_8759.N1	03-OCT-2007 03:51:56	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	29231	No
37	GOM_TRA_1PNPDE20071003_035321_000000582062_00119_29231_8760.N1	03-OCT-2007 03:53:21	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	29231	No
38	GOM_TRA_1PNPDE20071003_040233_000000392062_00119_29231_8761.N1	03-OCT-2007 04:02:33	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29231	No
39	GOM_TRA_1PNPDE20071003_040401_000000432062_00119_29231_8762.N1	03-OCT-2007 04:04:01	Dark	42.500	9	Alp Eri	0.45300	24000.	85	29231	No
40	GOM_TRA_1PNPDE20071003_040920_000000432062_00119_29231_8763.N1	03-OCT-2007 04:09:20	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	29231	No
41	GOM_TRA_1PNPDE20071003_042621_000000362062_00119_29231_8764.N1	03-OCT-2007 04:26:21	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	29231	No
42	GOM_TRA_1PNPDE20071003_042958_000000362062_00119_29231_8765.N1	03-OCT-2007 04:29:58	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	29231	No
43	GOM_TRA_1PNPDE20071003_043917_000000382062_00119_29231_8766.N1	03-OCT-2007 04:39:17	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	29231	No
44	GOM_TRA_1PNPDE20071003_044720_000000352062_00119_29231_8767.N1	03-OCT-2007 04:47:20	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29231	No
45	GOM_TRA_1PNPDE20071003_045520_000000372062_00119_29231_8962.N1	03-OCT-2007 04:55:20	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29231	No
46	GOM_TRA_1PNPDE20071003_045650_000000362062_00119_29231_8963.N1	03-OCT-2007 04:56:50	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	29231	No
47	GOM_TRA_1PNPDE20071003_050644_000000372062_00119_29231_8964.N1	03-OCT-2007 05:06:44	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	29231	No
48	GOM_TRA_1PNPDE20071003_051623_000000472062_00119_29231_8965.N1	03-OCT-2007 05:16:23	Twilight	46.500	48	30Alp Hya	1.9770	4100.0	93	29231	No
49	GOM_TRA_1PNPDE20071003_052604_000000482062_00119_29231_8966.N1	03-OCT-2007 05:26:04	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	29231	No

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





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

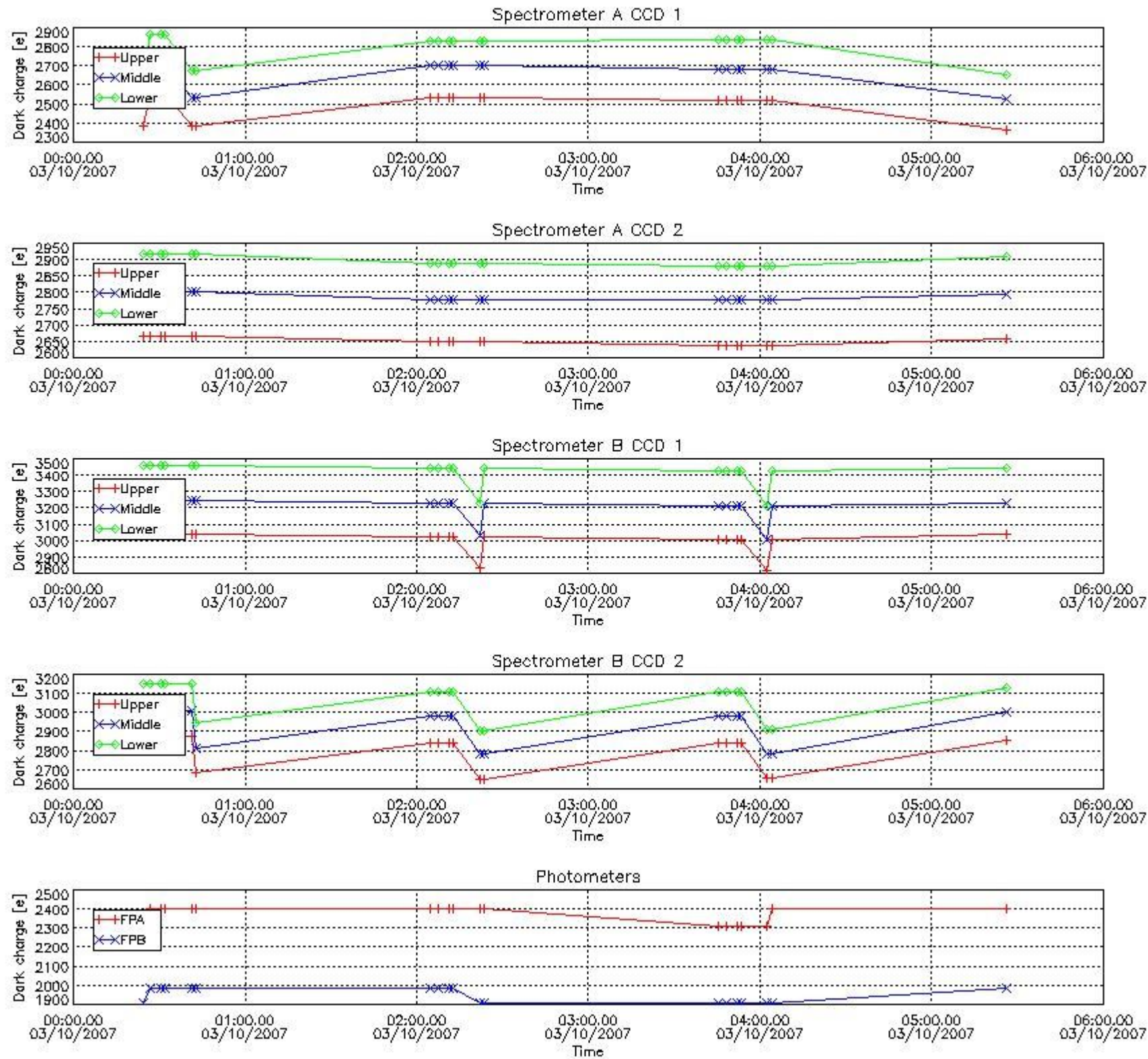
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20071003_000456_000000352062_00116_29228_8357.N1	DC map used
GOM_TRA_1PNPDE20071003_001434_000000452062_00116_29228_8358.N1	DC map used

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



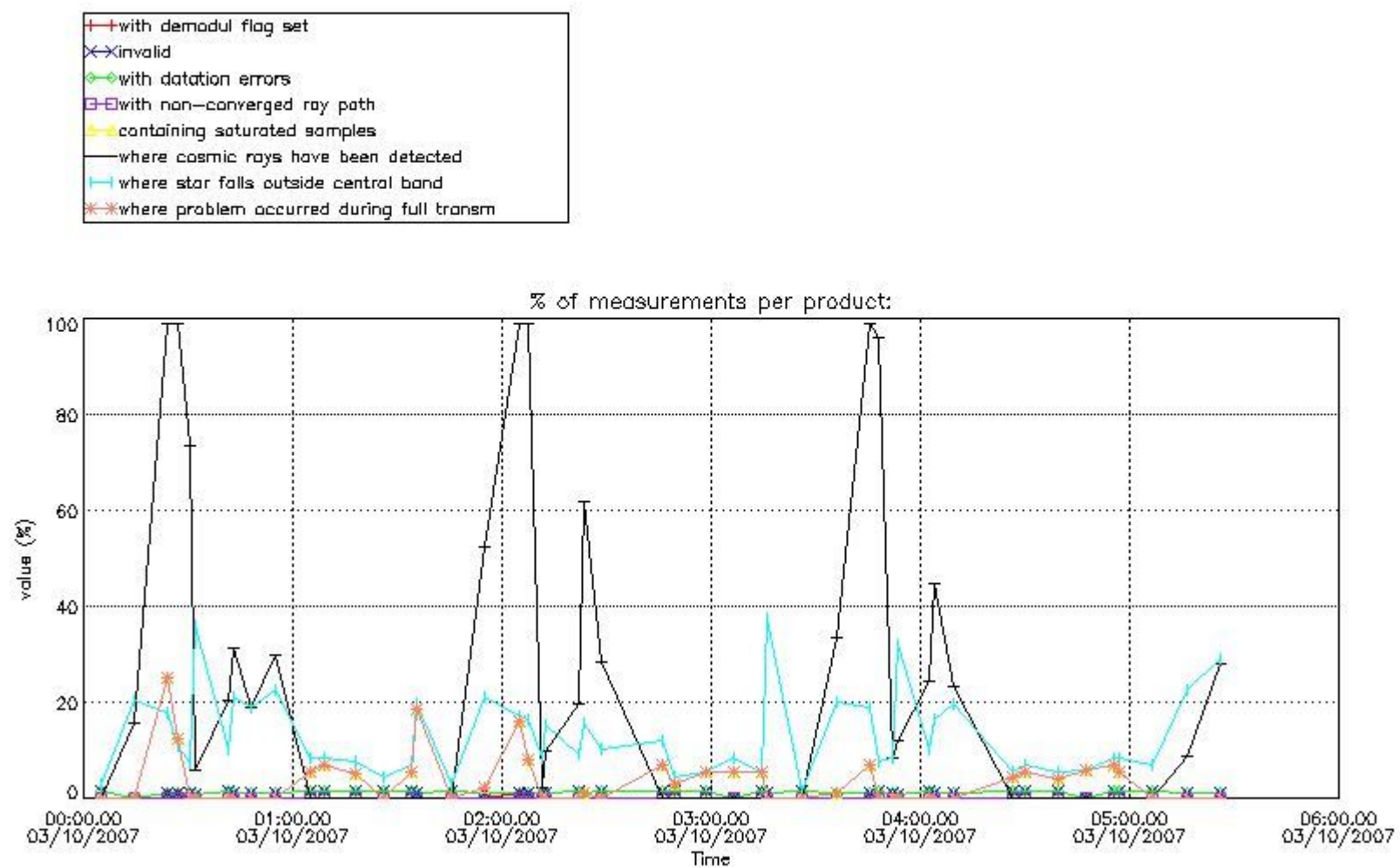
## 5. Demodulation flag and quality information monitoring

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:

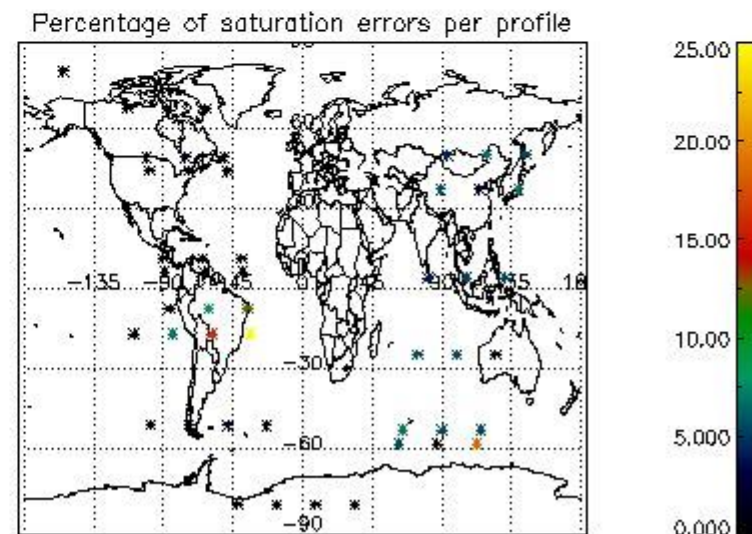
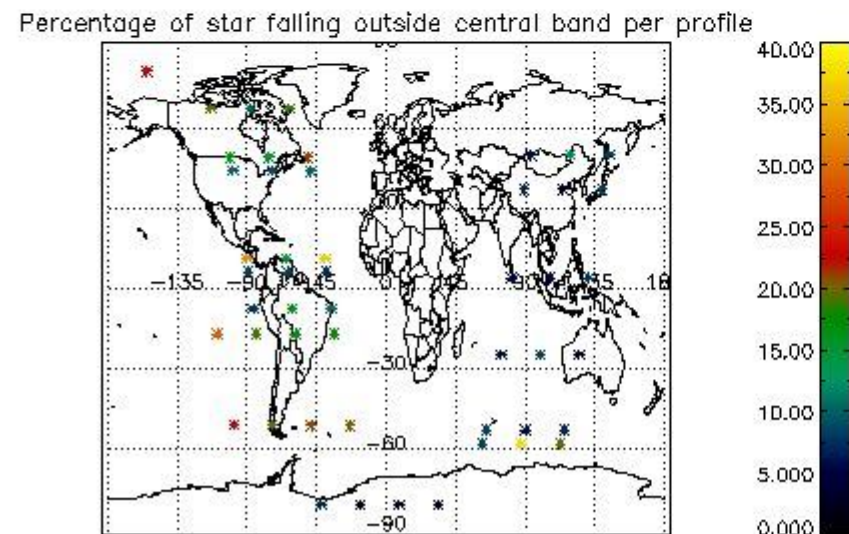
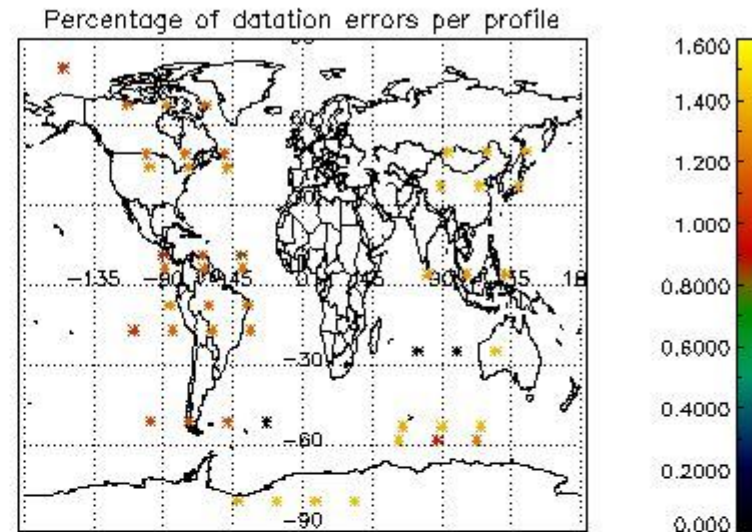
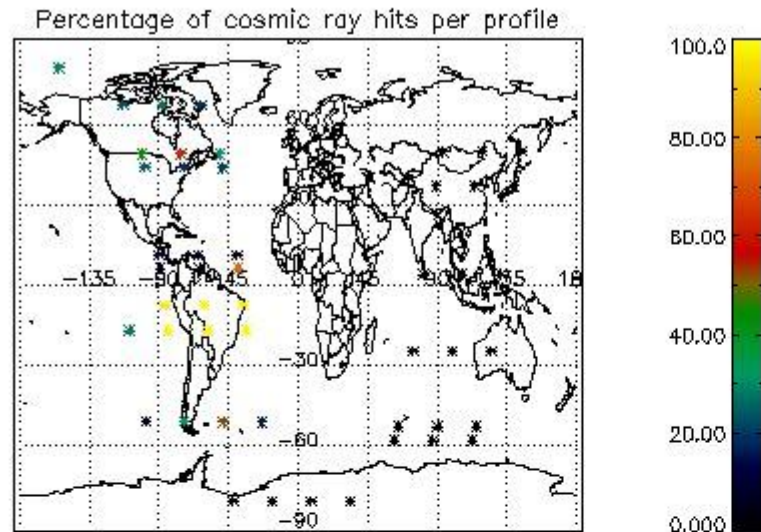
At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





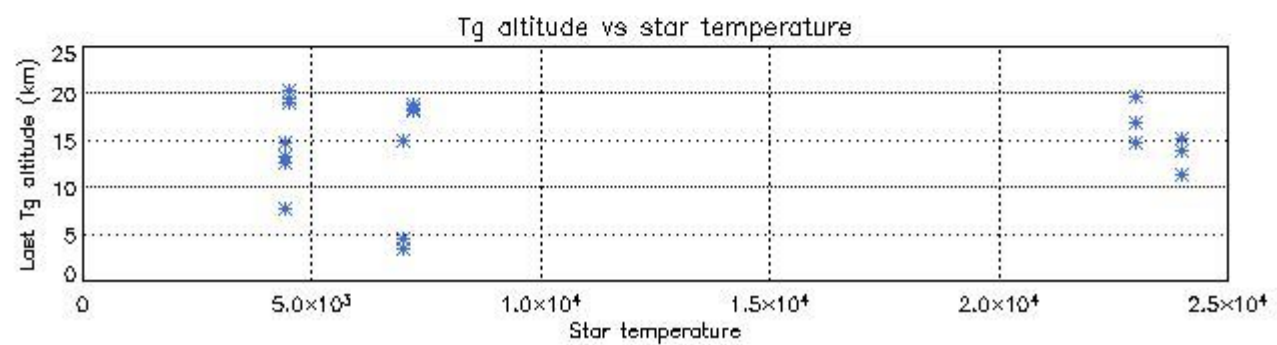
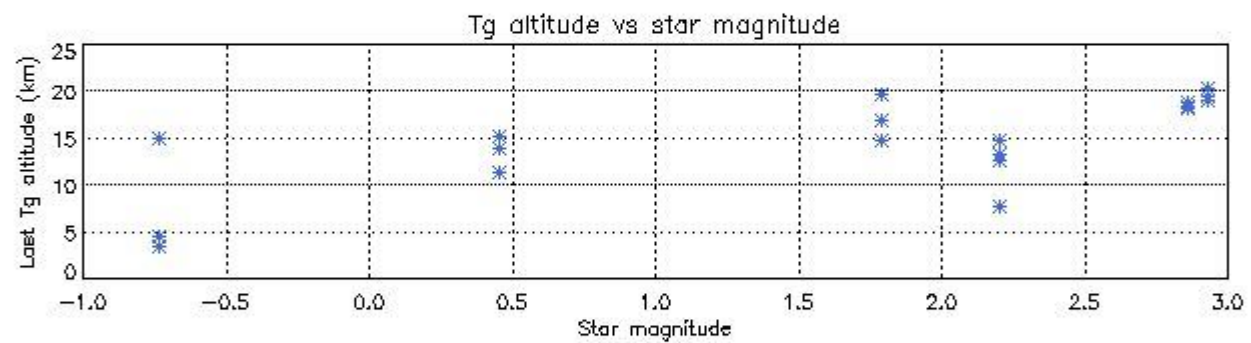
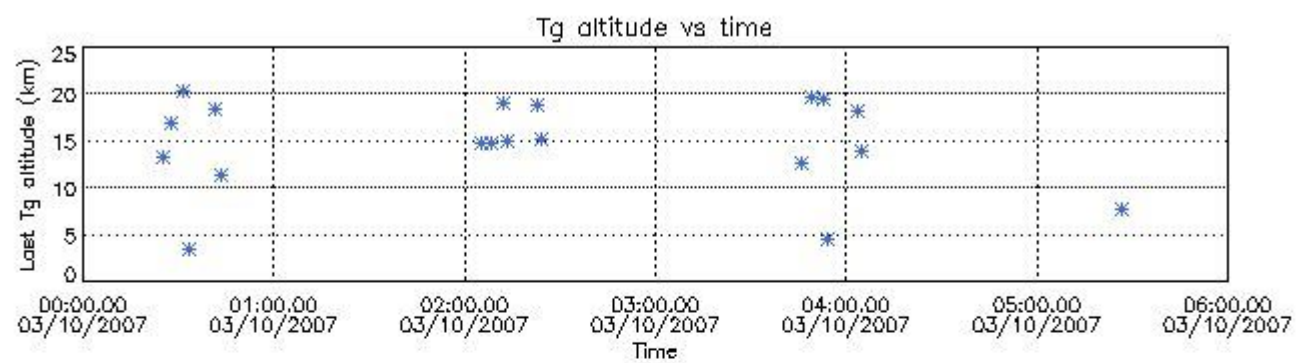
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.571	20.213	11.370
St. deviation:	4.9751	4.3810	0.51256
Maximum:	20.356	25.109	11.736
Minimum:	3.3812	3.7724	10.616
Number of data:	19.000	22.000	4.0000

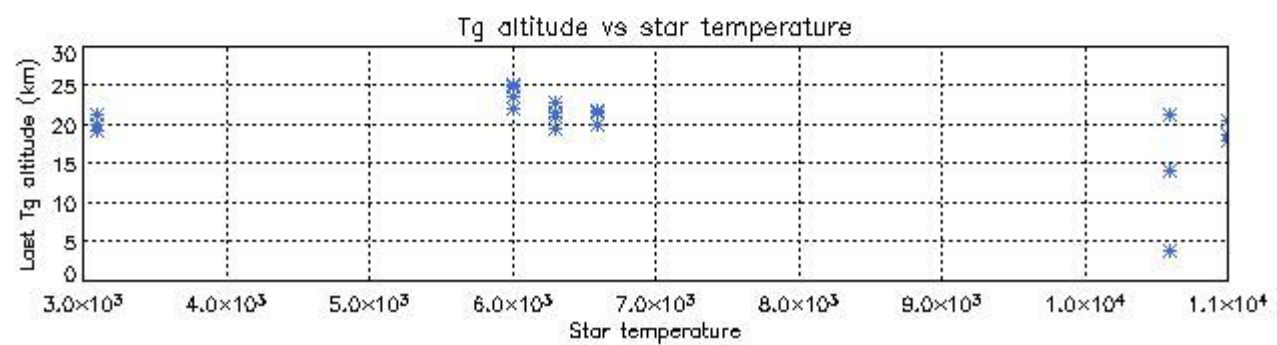
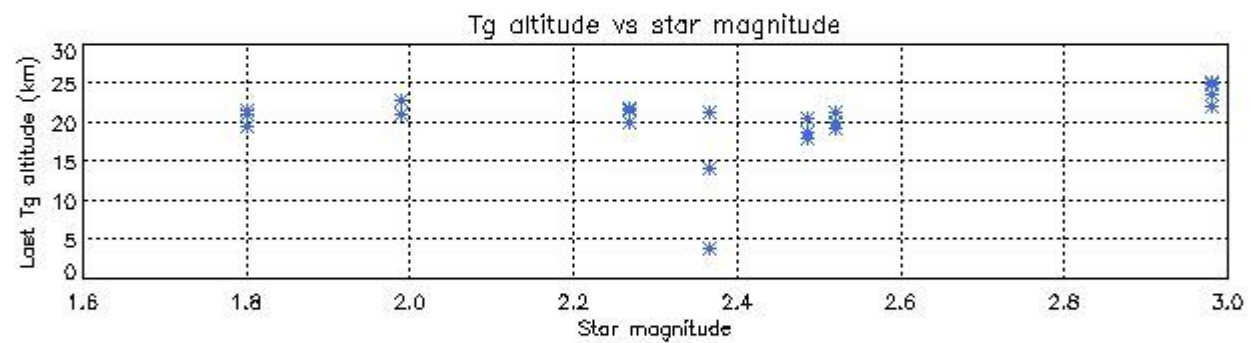
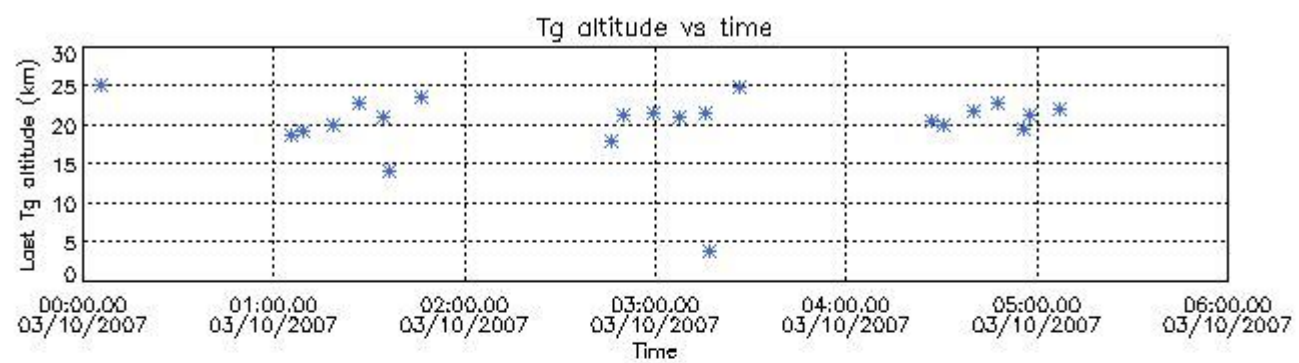
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



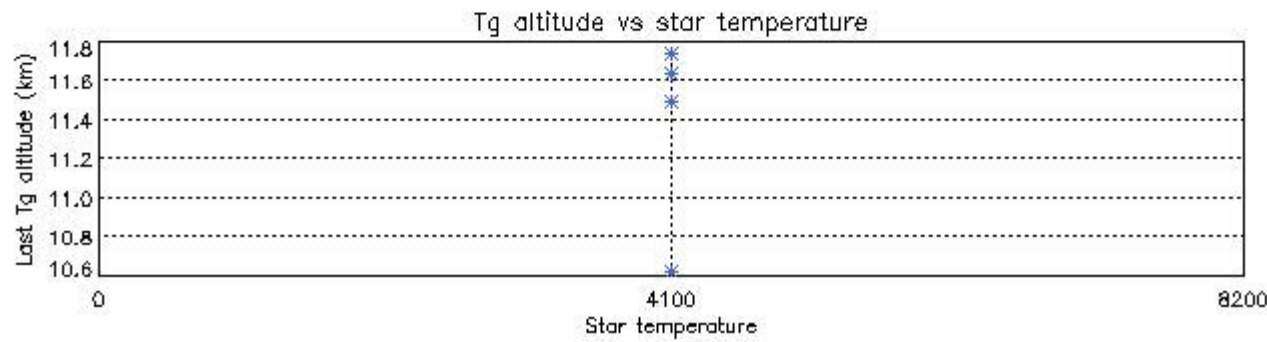
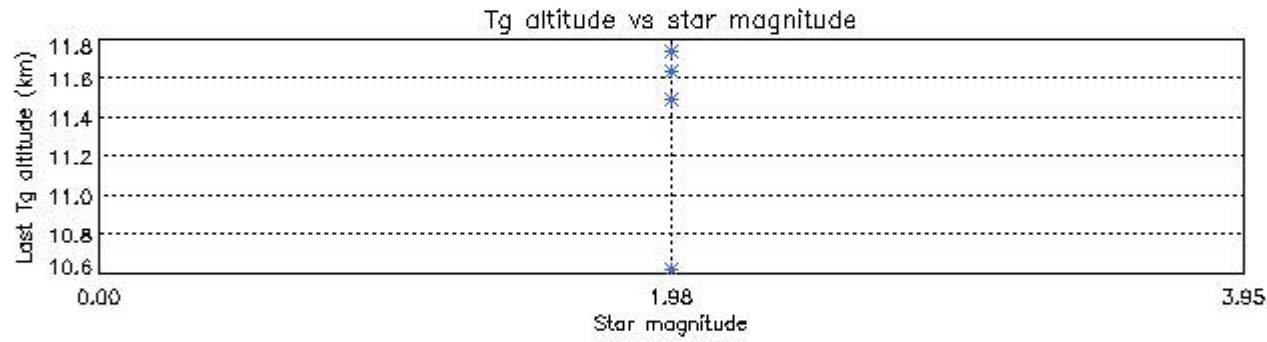
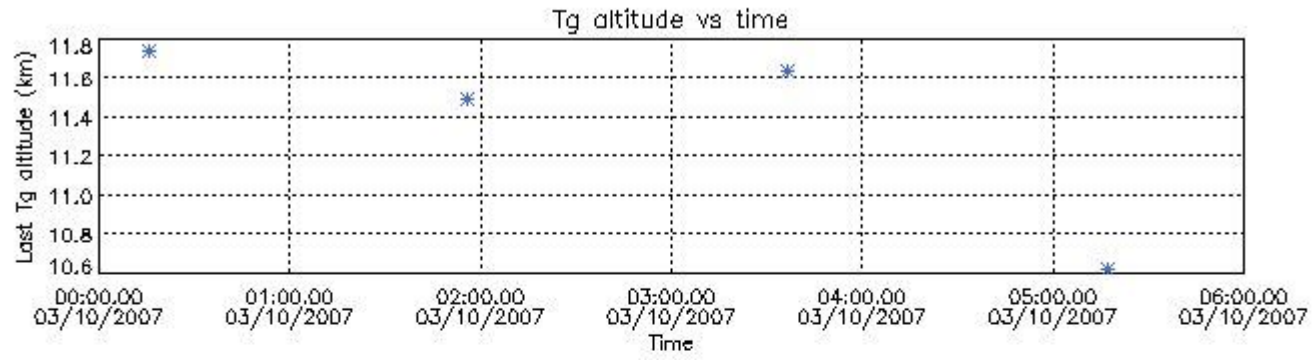
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



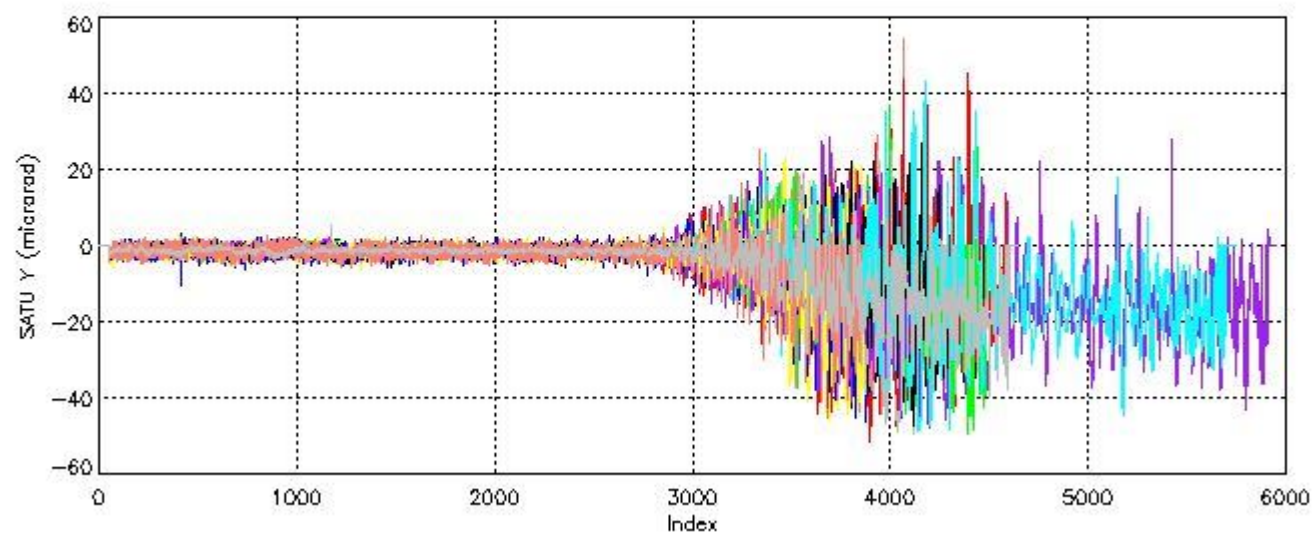
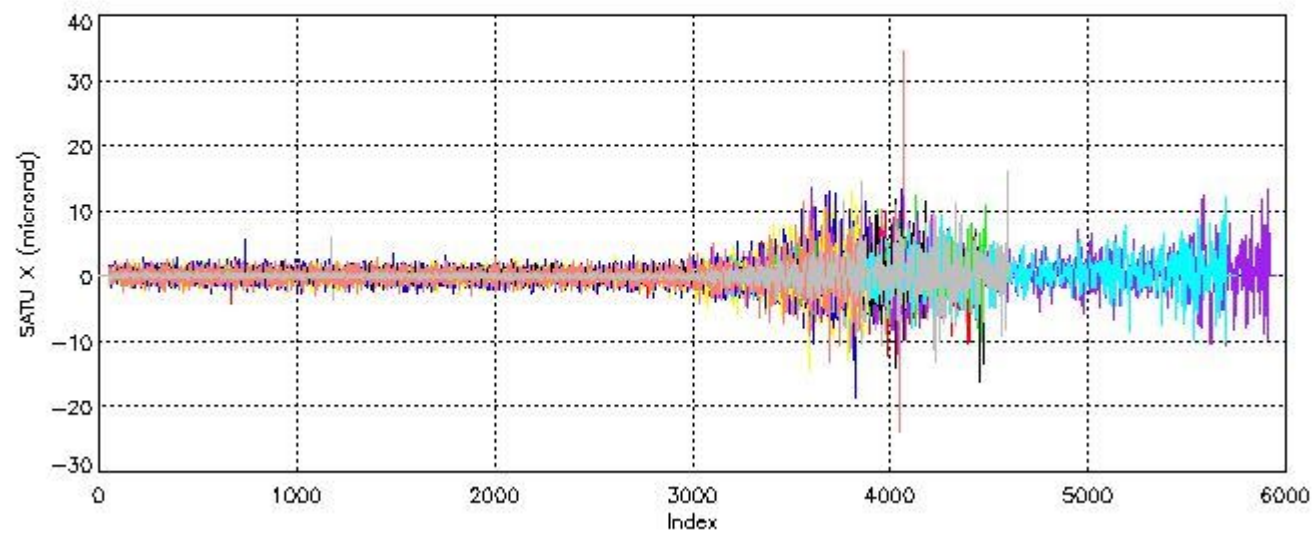
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.099350	-1.3058	0.041537	-1.3206
St. deviation:	0.41447	0.83138	0.67545	1.0886
Maximum:	5.5000	2.9000	3.9000	3.3000
Minimum:	-4.1000	-10.600	-3.7000	-6.7000

Number of data:	17700.	17700.	18200.	18200.
-----------------	--------	--------	--------	--------

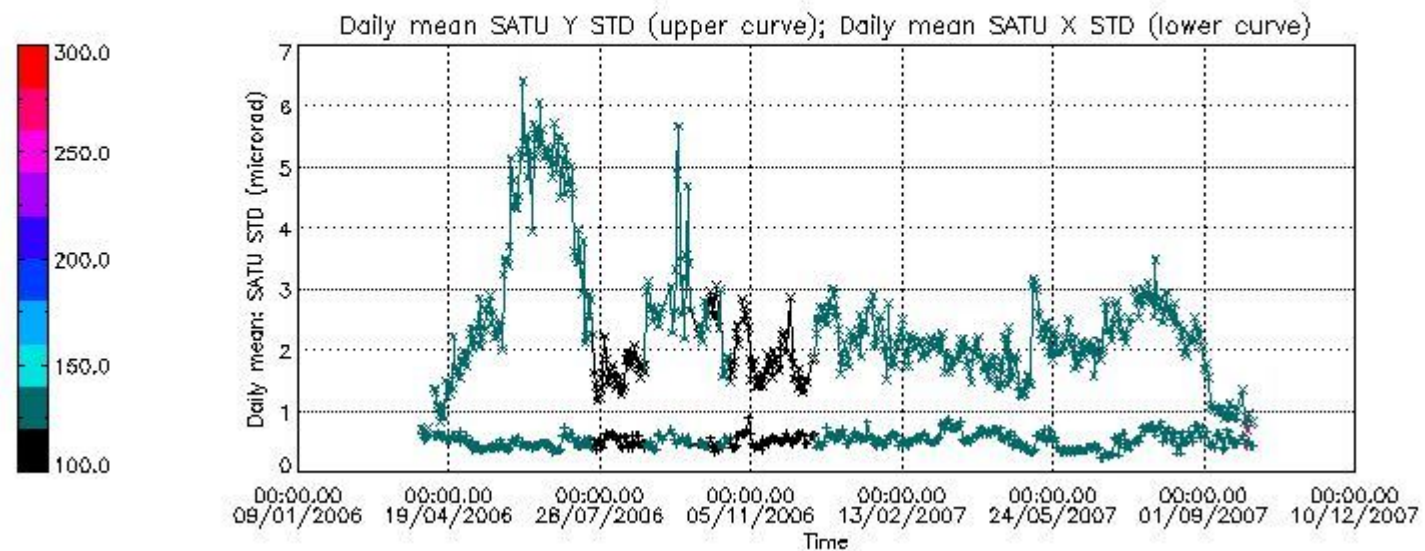
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

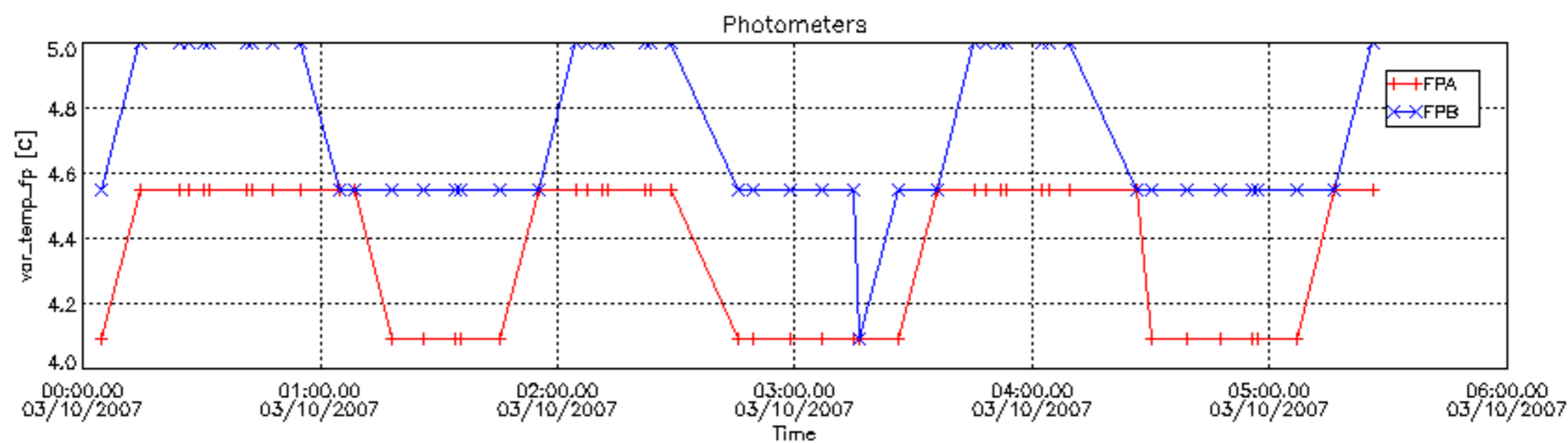
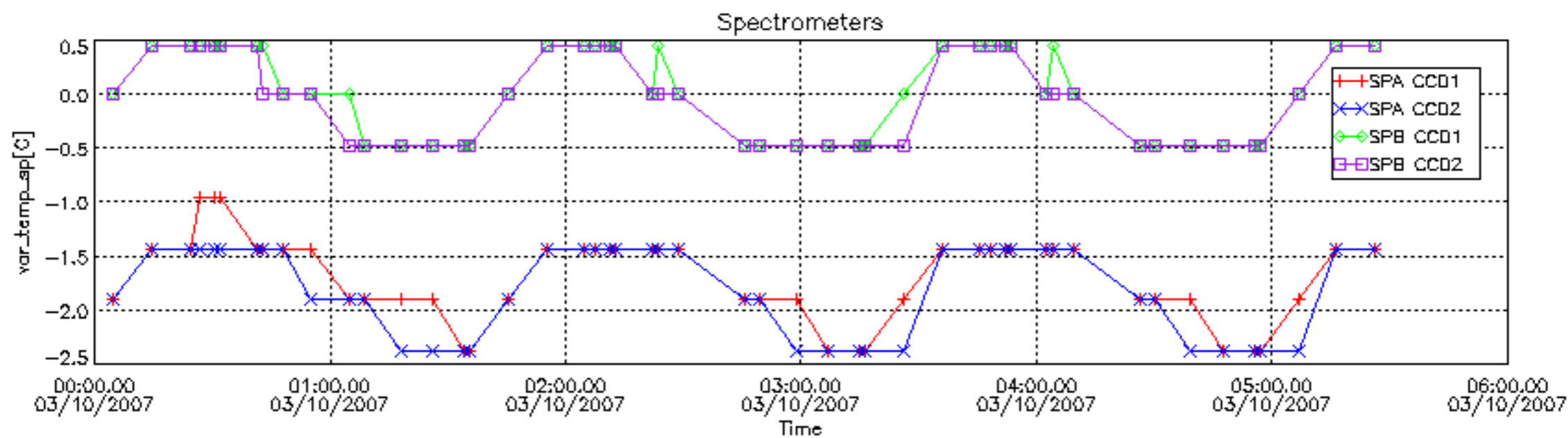


### 8. Auxiliary Data Files used for the production reported in section 2.4

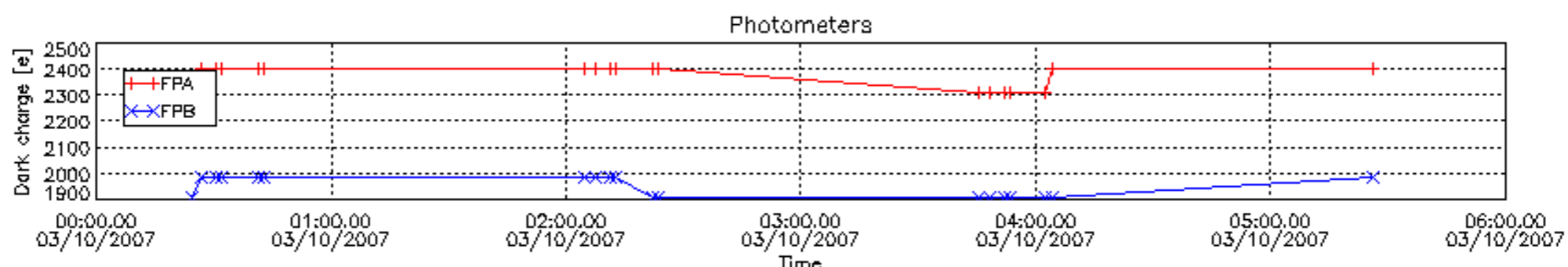
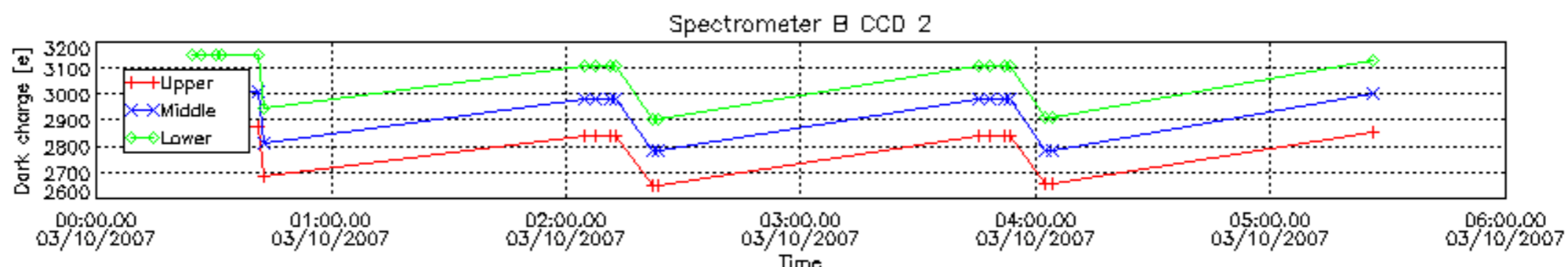
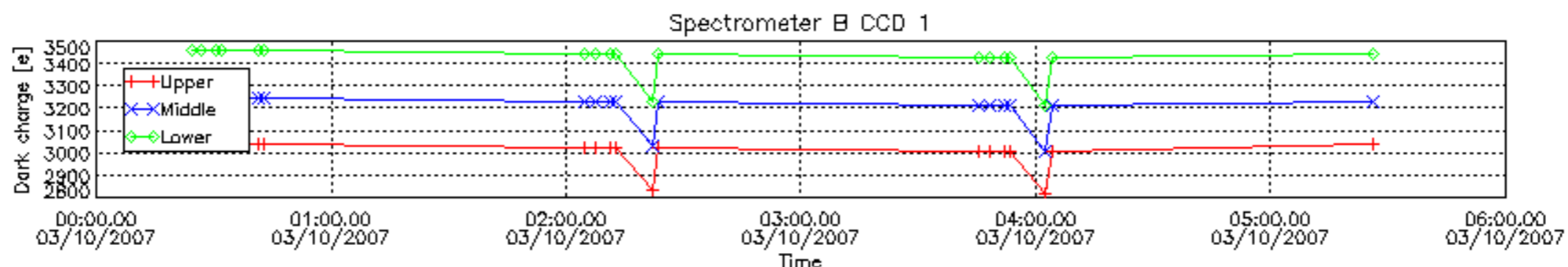
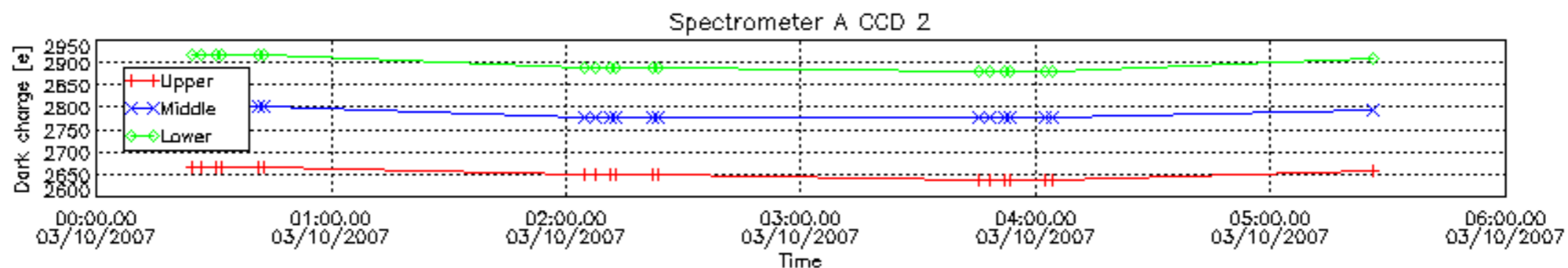
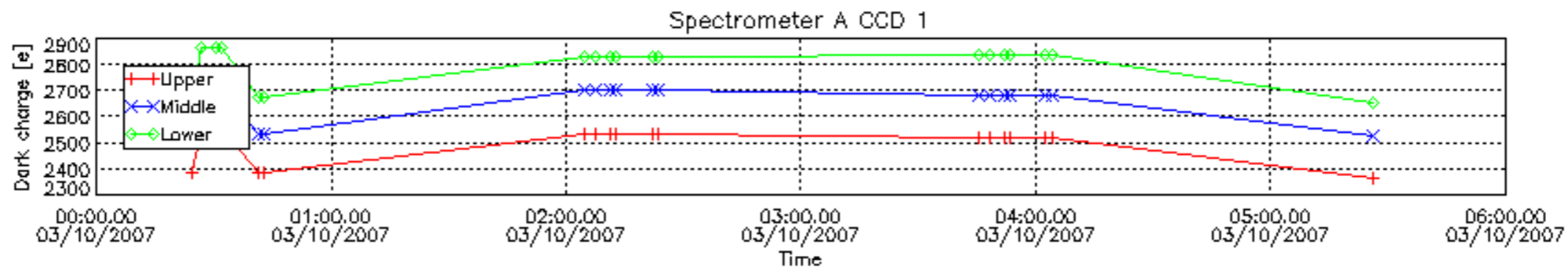
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

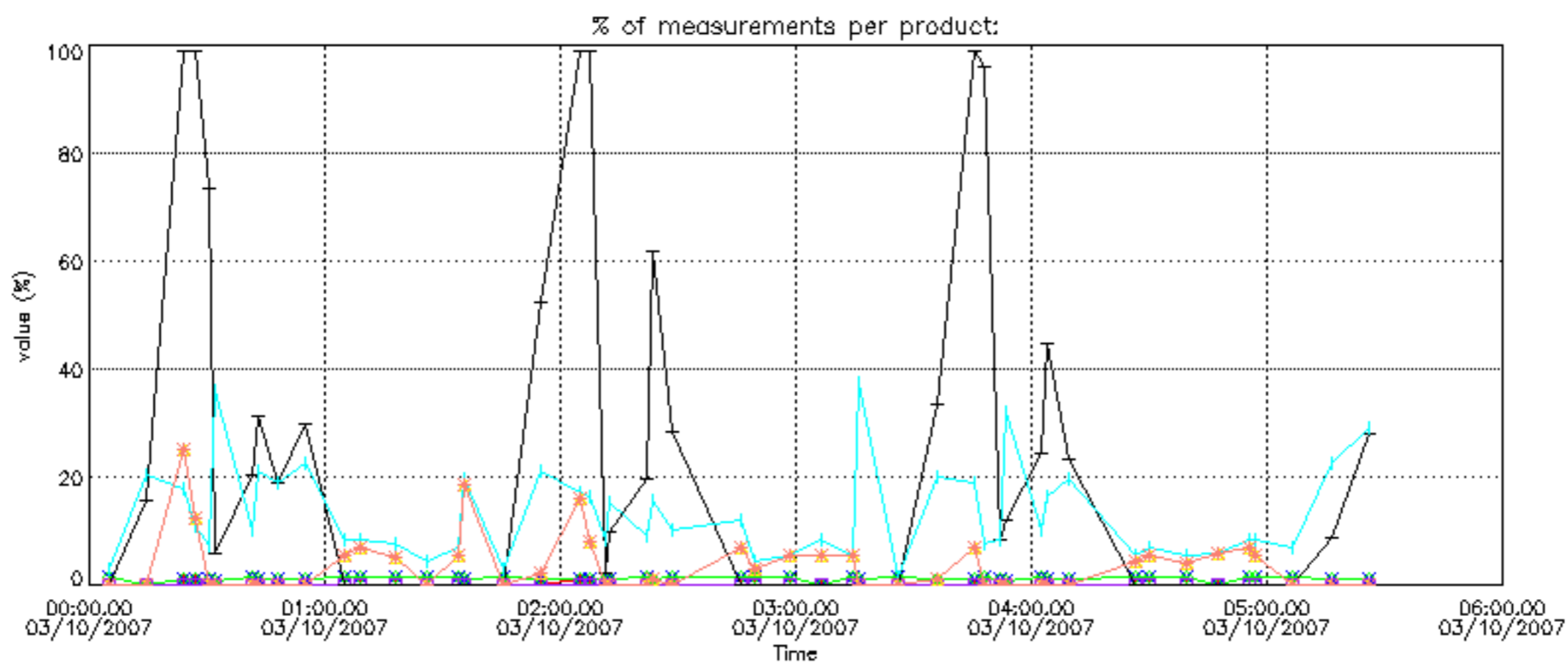
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-OCT-2007 00:04:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070928_104909_20070927_000000_20100101_000000	1	03-OCT-2007 00:04:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-OCT-2007 00:04:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-OCT-2007 00:04:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-OCT-2007 00:04:56
ECMWF_FILE	AUX_ECF_AXNECM20071002_151115_20071002_210000_20071003_090000	1	03-OCT-2007 00:04:56
ECMWF_FILE	AUX_ECF_AXNECM20071002_180113_20071003_030000_20071003_150000	30	03-OCT-2007 03:14:44
OPTIONAL_ECMWF_FILE	MISSING	1	03-OCT-2007 00:04:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071002_204808_000060572062_00114_29226_4276.N1	1	03-OCT-2007 00:04:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071002_223424_000057382062_00115_29227_4277.N1	3	03-OCT-2007 00:24:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071003_001521_000054192062_00116_29228_4278.N1	18	03-OCT-2007 01:55:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071003_015059_000041442062_00117_29229_4279.N1	30	03-OCT-2007 03:14:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071003_044620_000057382062_00119_29231_4281.N1	45	03-OCT-2007 04:55:20



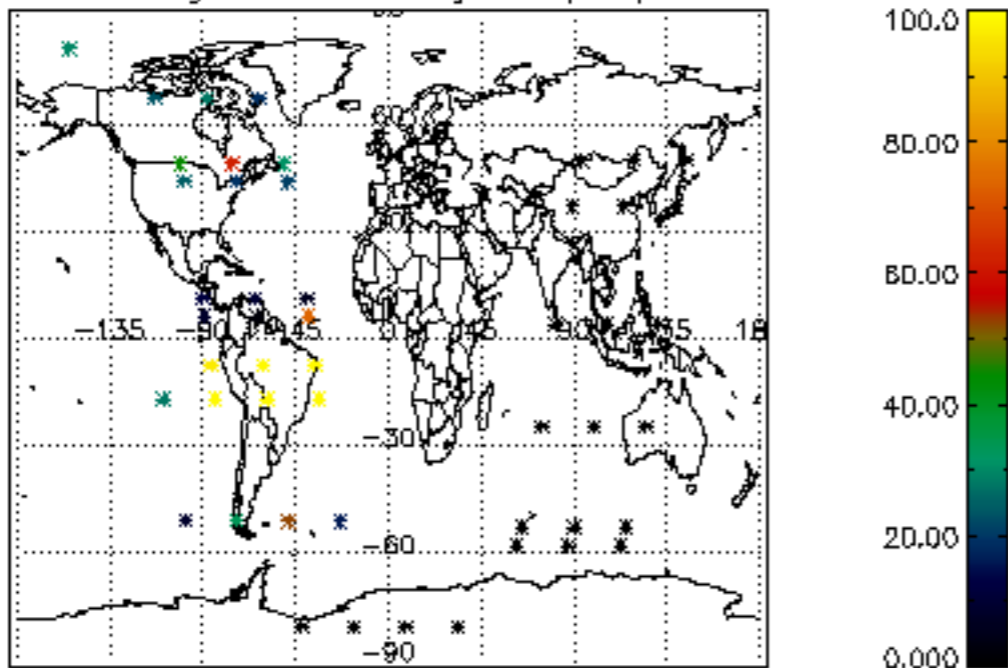




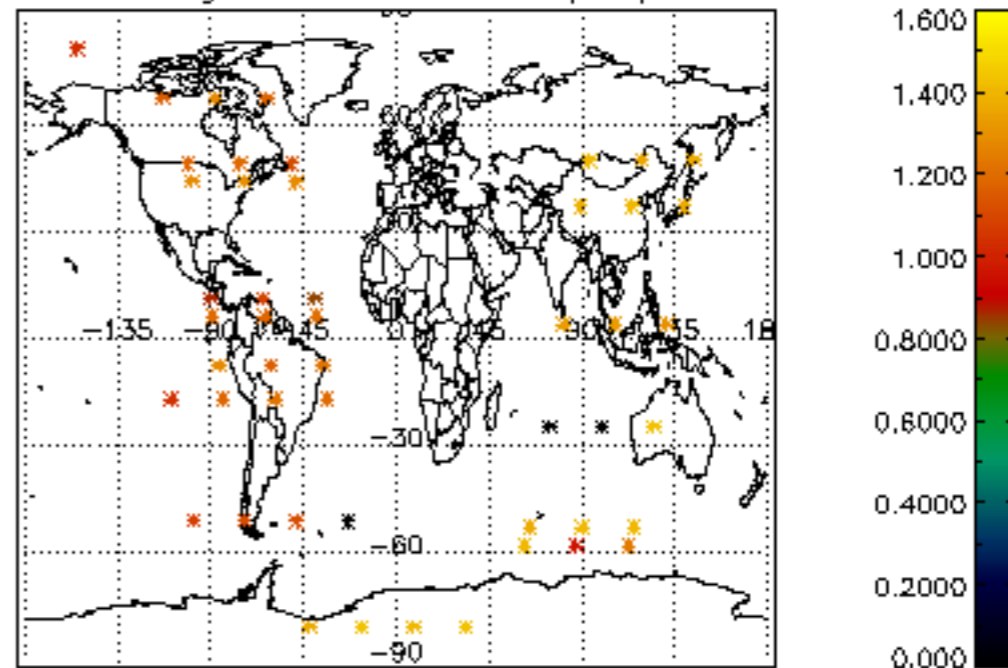




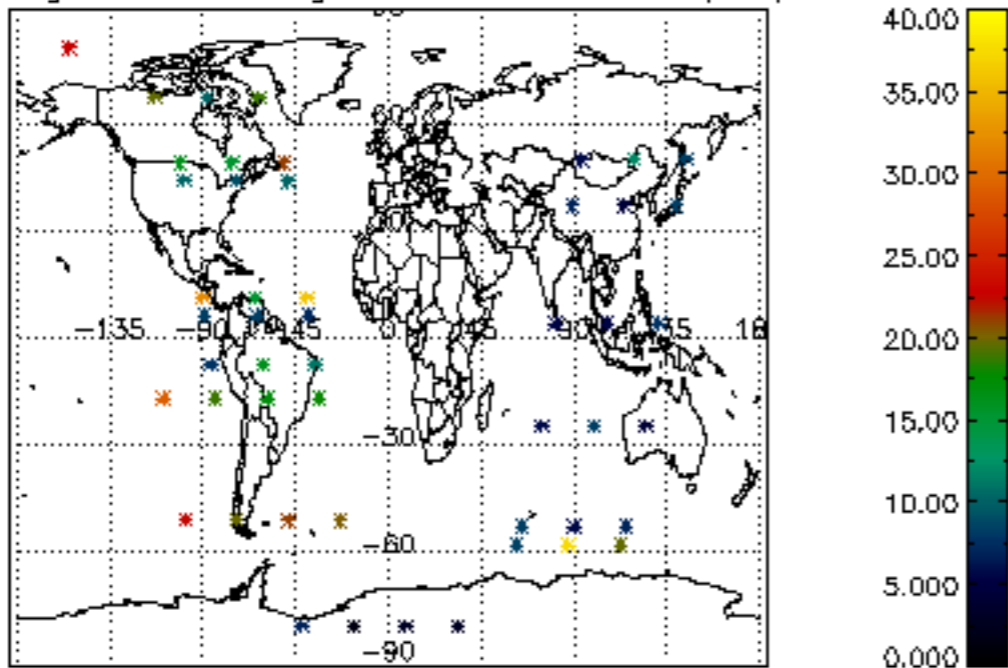
Percentage of cosmic ray hits per profile



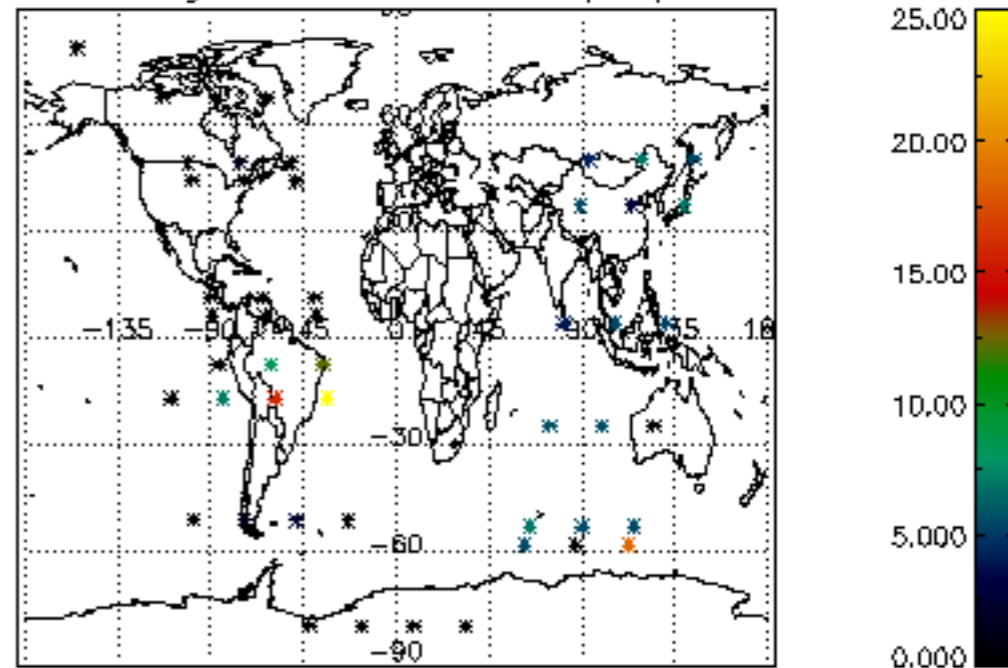
Percentage of datation errors per profile



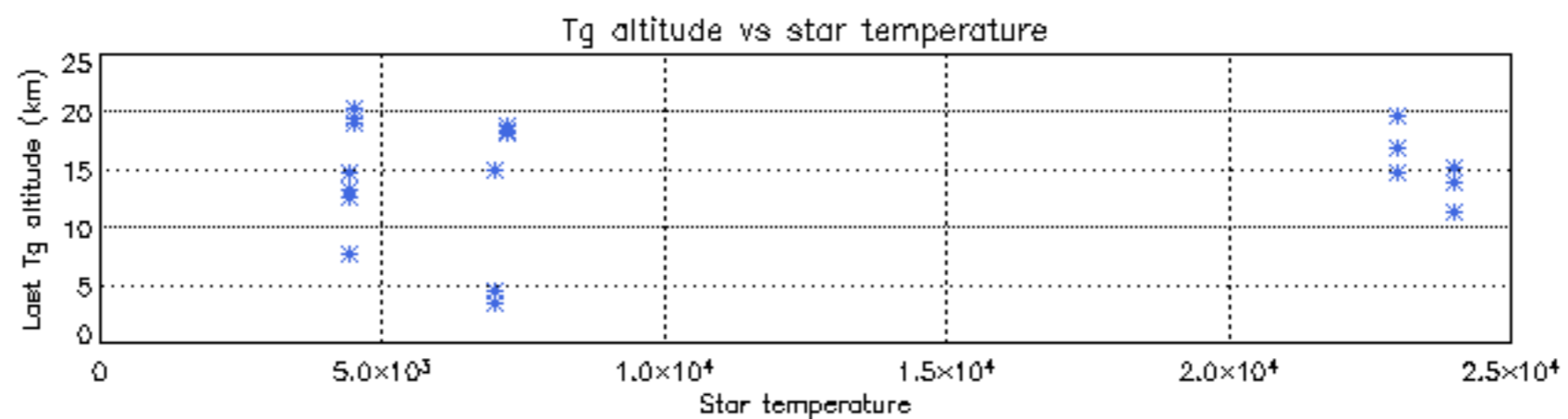
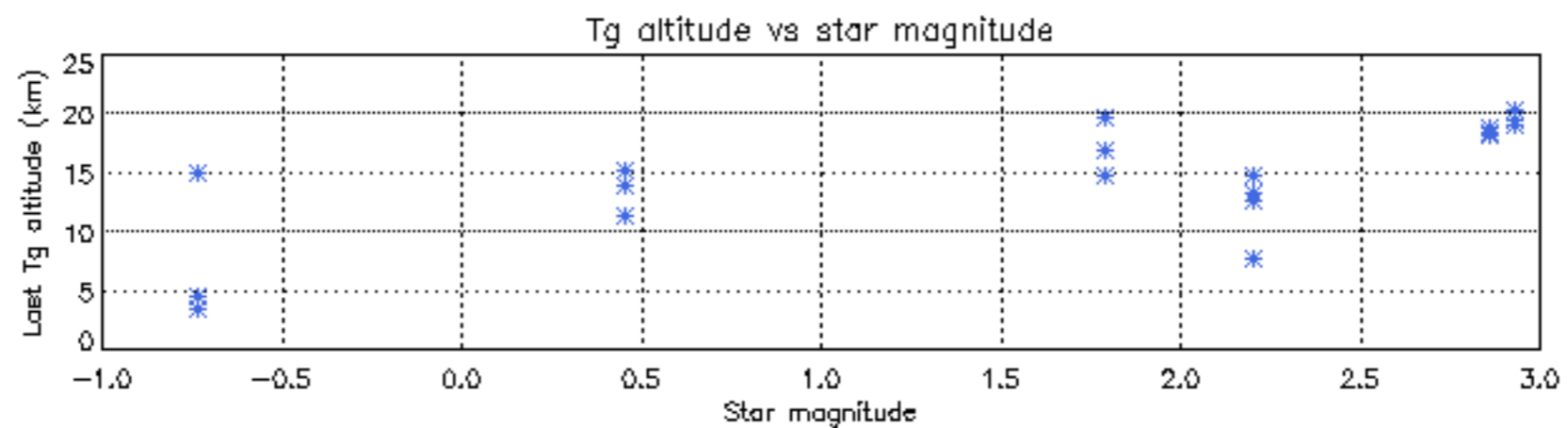
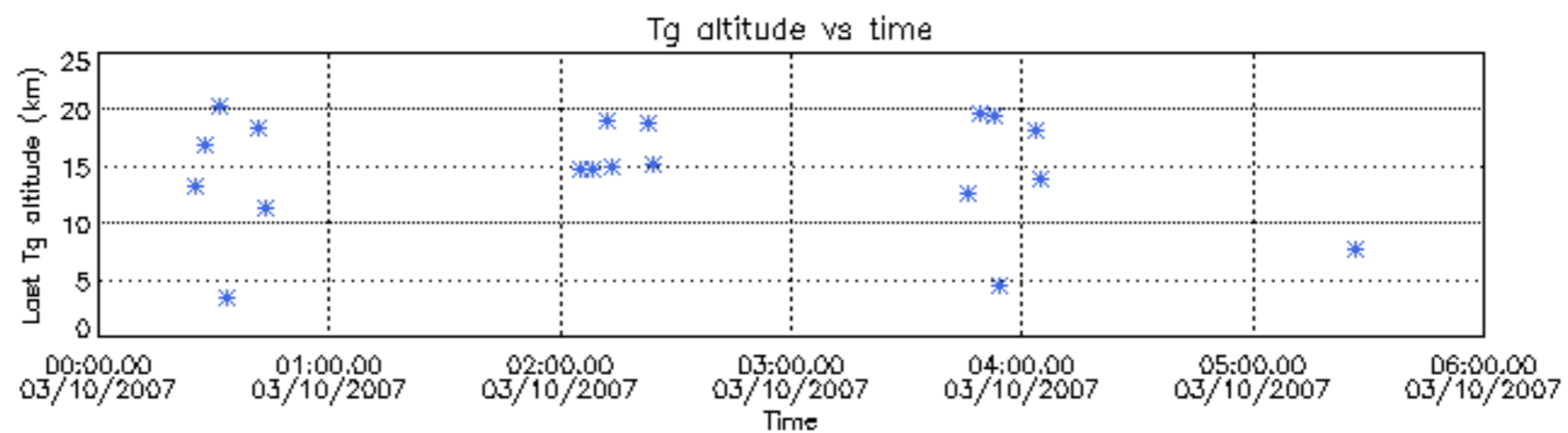
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

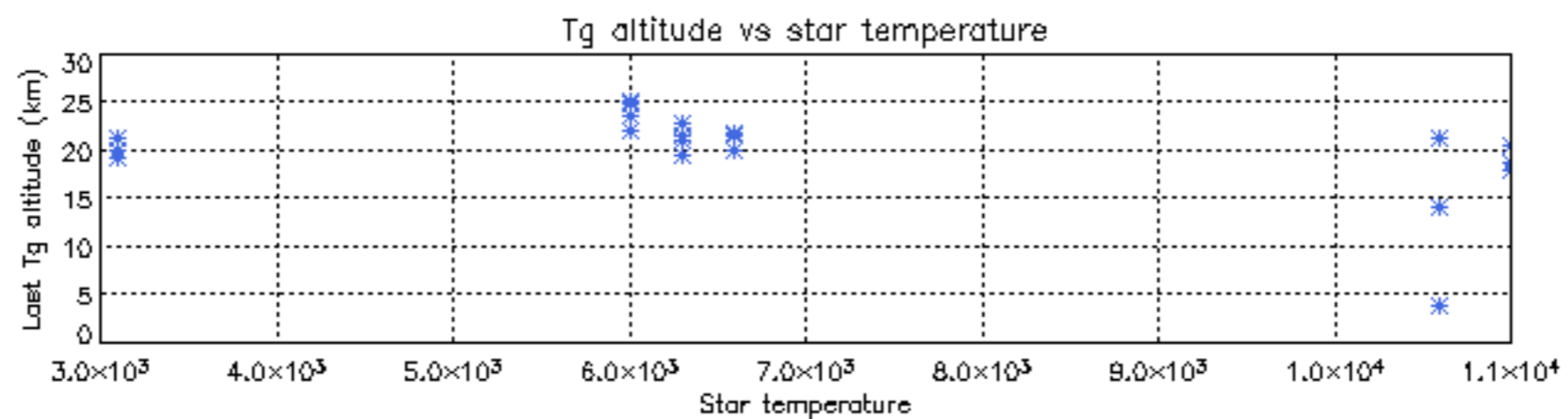
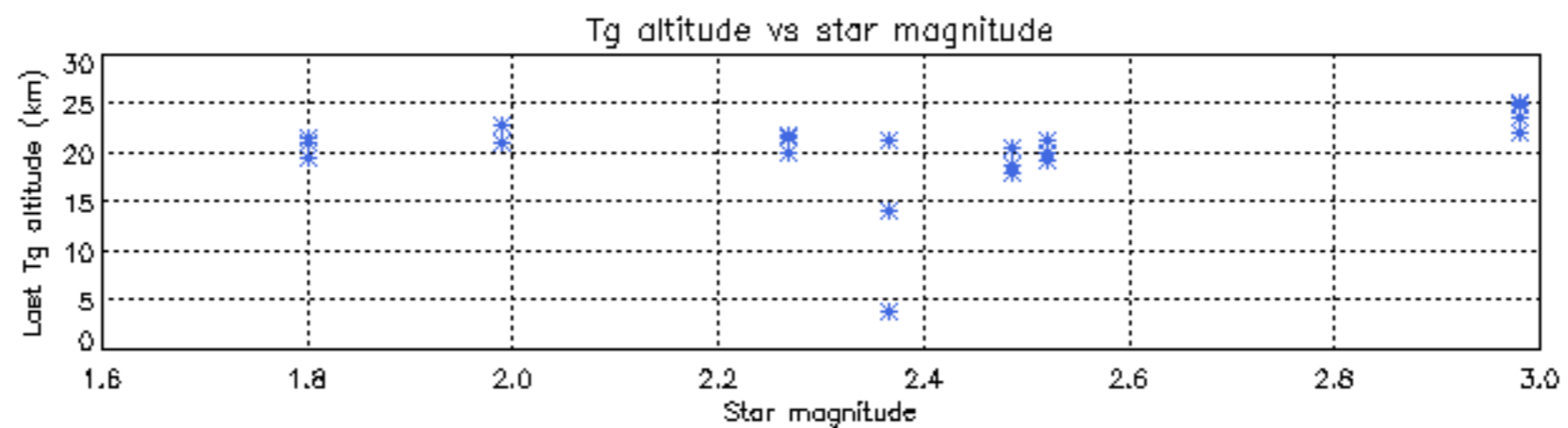
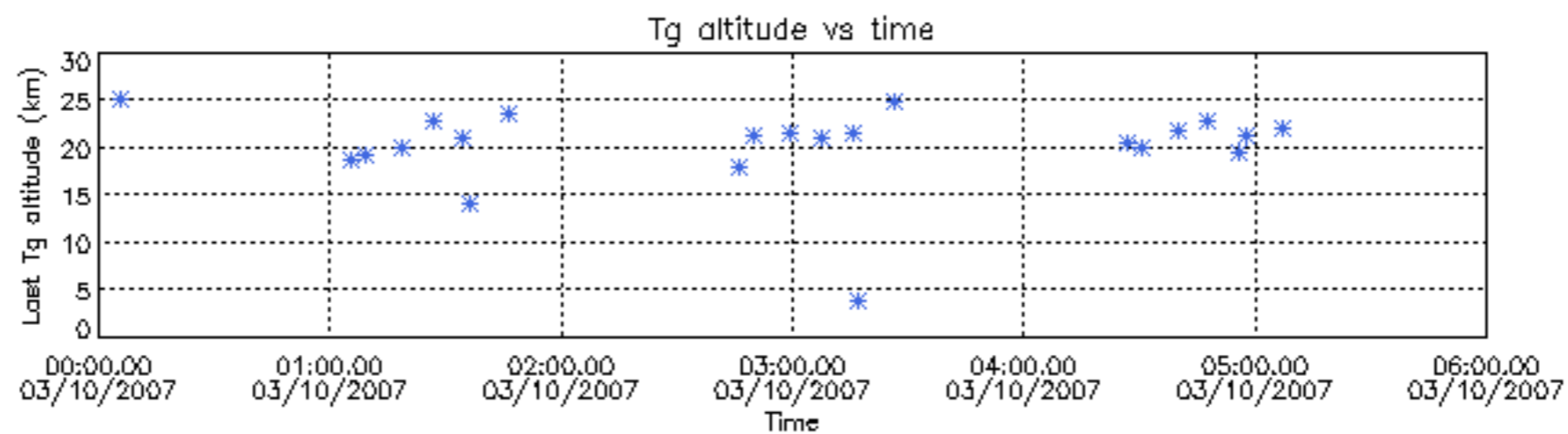


Tangent altitude at which the star is lost

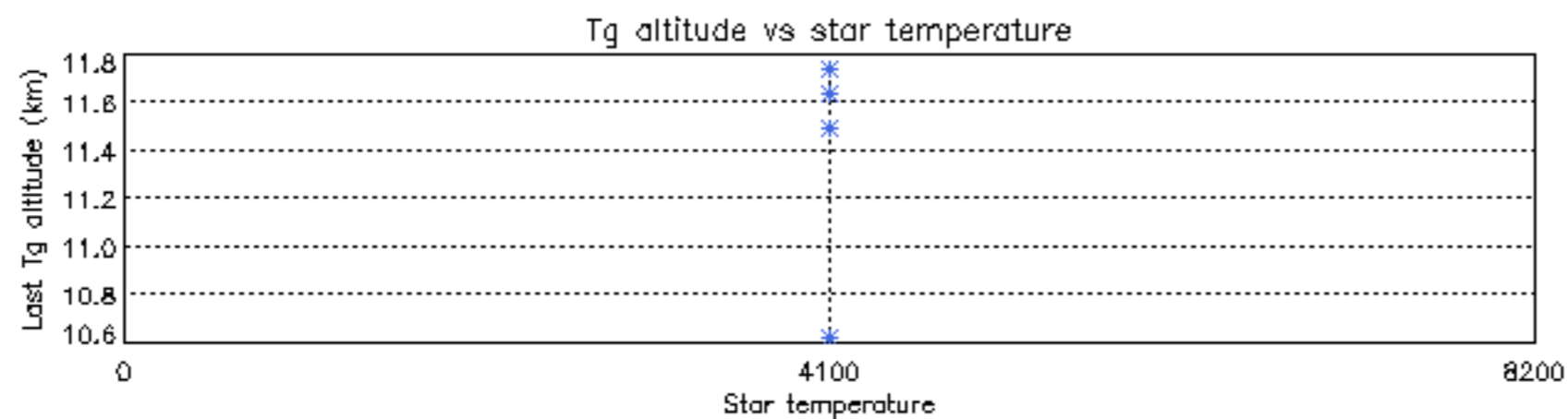
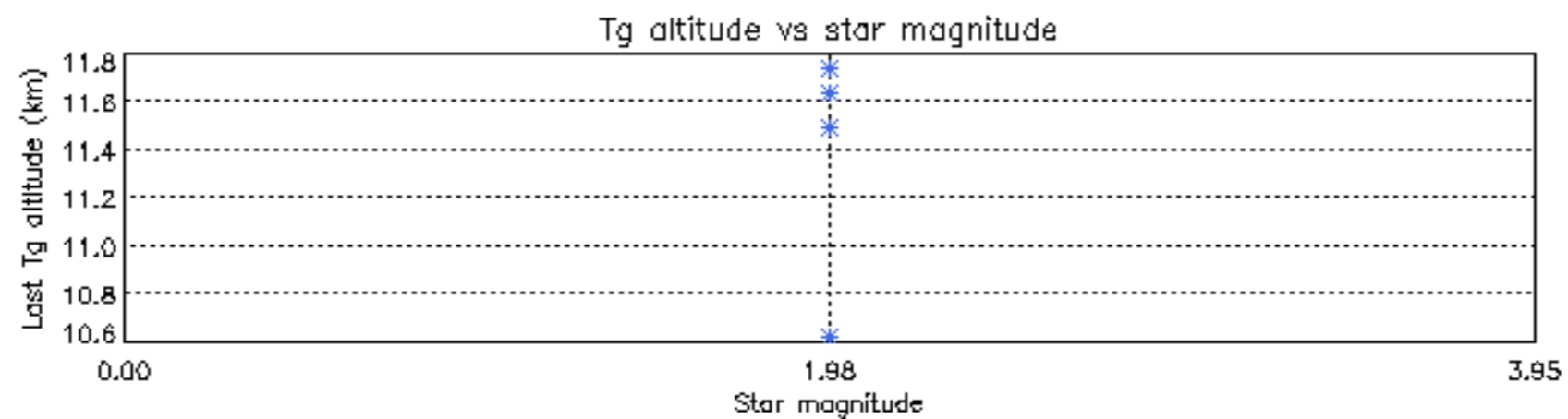
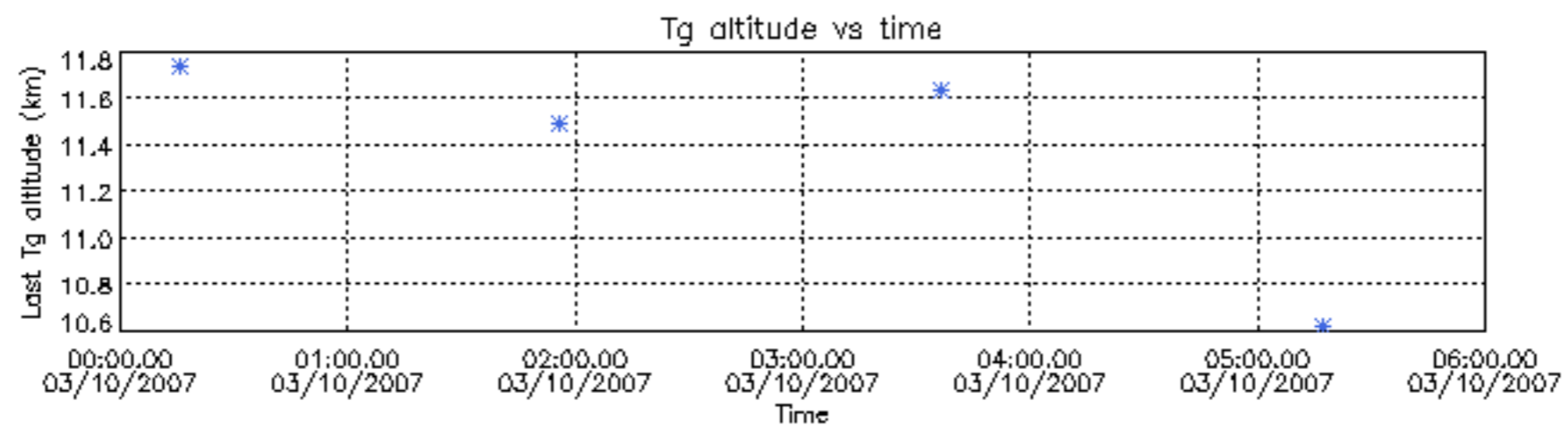


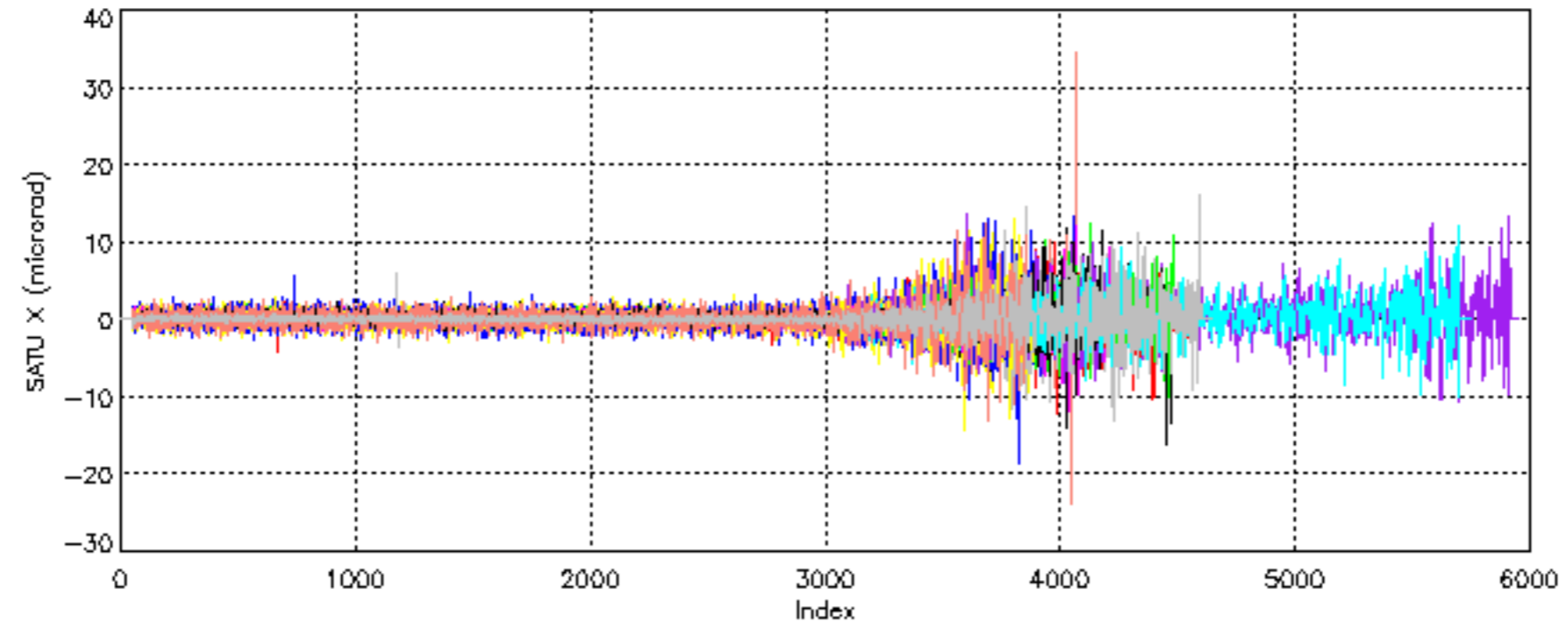


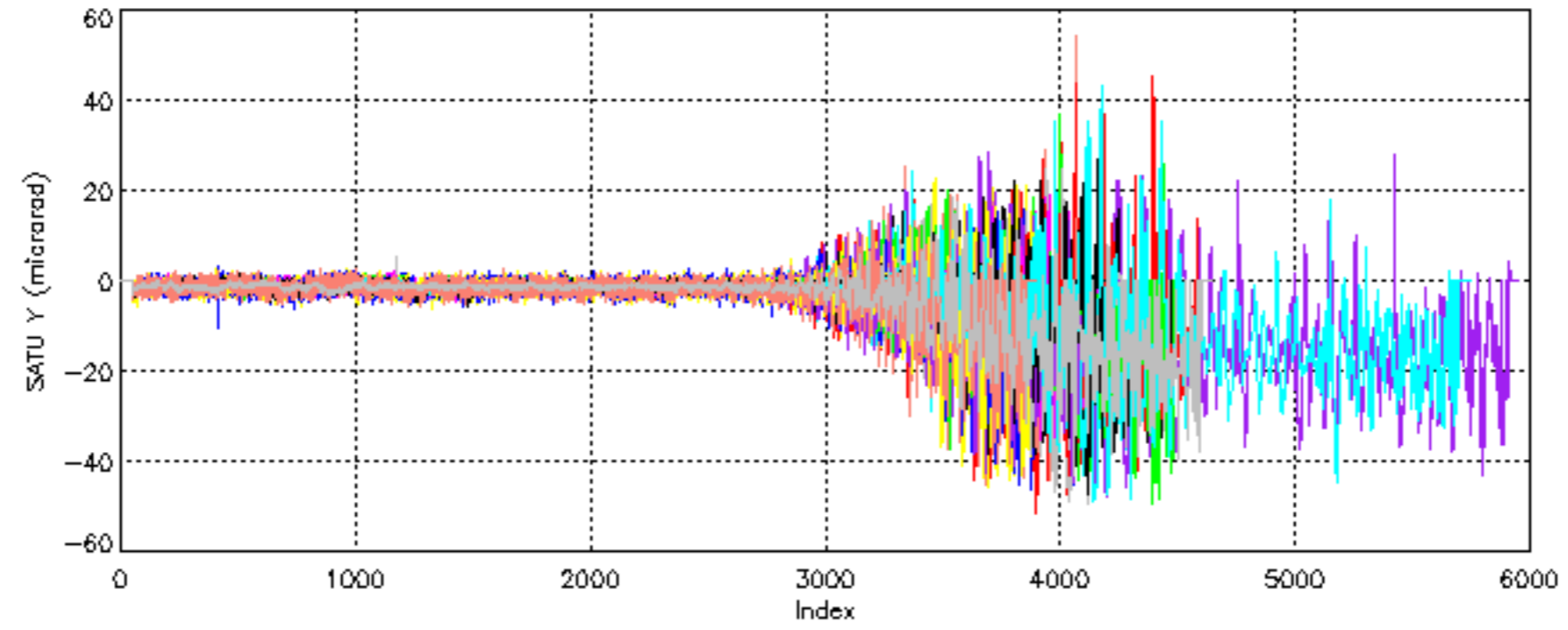
Tangent altitude at which the star is lost

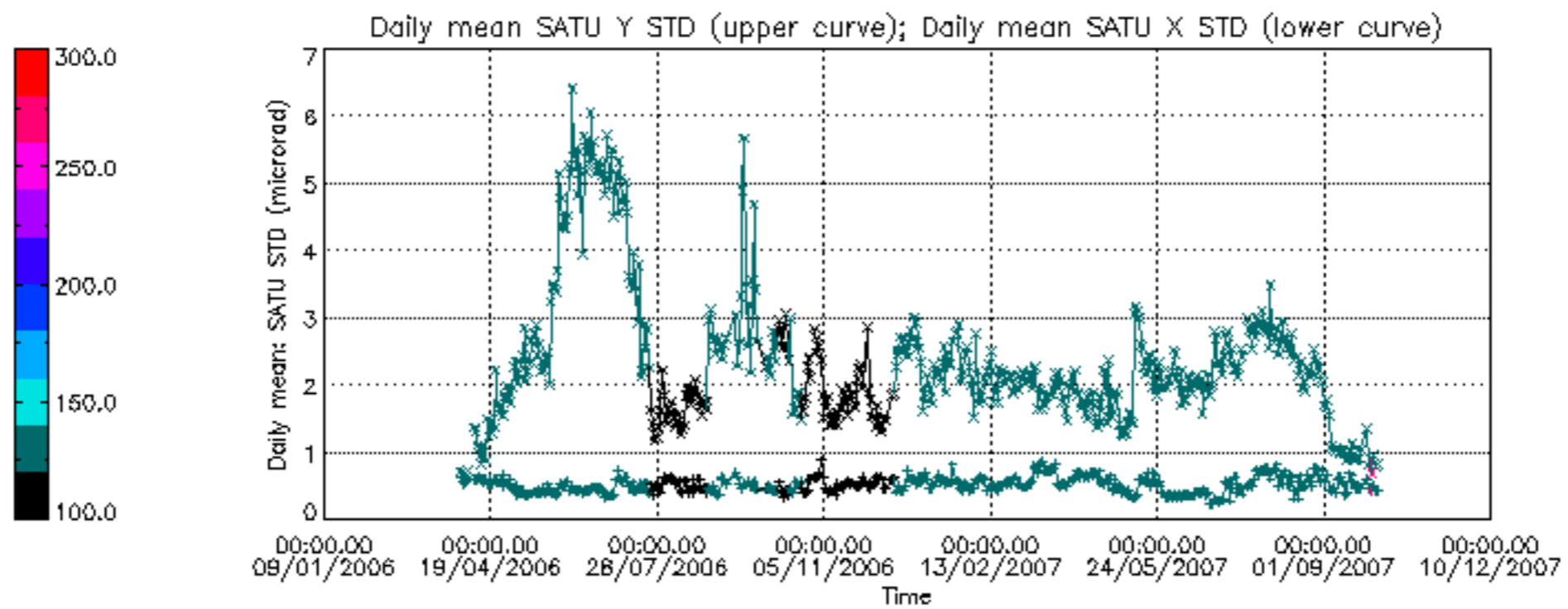


Tangent altitude at which the star is lost











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1; -454.2; 01-OCT-2007 01:24:40; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 0;29200  
 2; -296.3; 01-OCT-2007 01:27:17; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;29200  
 3; -142.0; 01-OCT-2007 01:29:52; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29200  
 4; 82.2; 01-OCT-2007 01:33:36; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29201  
 5; 166.3; 01-OCT-2007 01:35:00; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29201  
 6; 729.7; 01-OCT-2007 01:44:23; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29201  
 7; 817.4; 01-OCT-2007 01:45:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29201  
 8; 1139.7; 01-OCT-2007 01:51:13; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29201  
 9; 2167.3; 01-OCT-2007 02:08:21; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29201  
 10; 2386.2; 01-OCT-2007 02:12:00; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29201  
 11; 2952.9; 01-OCT-2007 02:21:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;29201  
 12; 3428.6; 01-OCT-2007 02:29:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29201

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1; -2131.0; 01-OCT-2007 02:37:19; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;29201  
 2; -2041.1; 01-OCT-2007 02:38:49; Bright; 32.5; 82; 48Bet UMA ; 2.37; 10600;occ; 65; 0;29201  
 3; -1449.1; 01-OCT-2007 02:48:40; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;29201  
 4; -876.7; 01-OCT-2007 02:58:13; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29201  
 5; -295.8; 01-OCT-2007 03:07:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29201  
 6; -141.4; 01-OCT-2007 03:10:28; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29201  
 7; 83.0; 01-OCT-2007 03:14:13; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;29202  
 8; 167.1; 01-OCT-2007 03:15:37; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;29202  
 9; 730.2; 01-OCT-2007 03:25:00; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29202  
 10; 817.9; 01-OCT-2007 03:26:28; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29202  
 11; 1140.1; 01-OCT-2007 03:31:50; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;29202  
 12; 2167.6; 01-OCT-2007 03:48:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29202  
 13; 2386.3; 01-OCT-2007 03:52:36; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29202  
 14; 2952.7; 01-OCT-2007 04:02:02; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;29202  
 15; 3428.7; 01-OCT-2007 04:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29202

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 2; -2040.9; 01-OCT-2007 04:19:25; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;29202  
 3; -1448.9; 01-OCT-2007 04:29:17; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;29202  
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 5; -452.8; 01-OCT-2007 04:45:53; Dark ; 32.0; 132; 15Rho Pup ; 2.80; 6900;occ; 64; 0;29202  
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 7; -140.9; 01-OCT-2007 04:51:05; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;29202  
 8; -44.7; 01-OCT-2007 04:52:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29202  
 9; 83.7; 01-OCT-2007 04:54:49; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;29203  
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 13; 1140.4; 01-OCT-2007 05:12:26; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29203  
 14; 2167.7; 01-OCT-2007 05:29:33; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;29203  
 15; 2386.3; 01-OCT-2007 05:33:12; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;29203  
 16; 2952.5; 01-OCT-2007 05:42:38; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;29203  
 17; 3428.7; 01-OCT-2007 05:50:34; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29203

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1; 1143.0; 01-OCT-2007 20:17:52; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;29212  
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 3; 2168.2; 01-OCT-2007 20:34:57; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29212  
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 5; 2950.1; 01-OCT-2007 20:47:59; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29212  
 6; 3428.5; 01-OCT-2007 20:55:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29212  
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 5; 91.1; 01-OCT-2007 21:40:56; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29213  
 6; 175.4; 01-OCT-2007 21:42:20; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;29213  
 7; 734.4; 01-OCT-2007 21:51:39; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29213  
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 7; -265.2; 06-OCT-2007 07:12:44; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29275
 8; -174.9; 06-OCT-2007 07:14:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29275
 9; -69.8; 06-OCT-2007 07:15:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29275
10; 25.5; 06-OCT-2007 07:17:34; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;29276
11; 139.7; 06-OCT-2007 07:19:28; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;29276
12; 223.9; 06-OCT-2007 07:20:53; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;29276
13; 757.8; 06-OCT-2007 07:29:47; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29276
14; 845.4; 06-OCT-2007 07:31:14; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29276
15; 1160.0; 06-OCT-2007 07:36:29; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29276
16; 1567.1; 06-OCT-2007 07:43:16; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29276
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 2; 2173.6; 06-OCT-2007 07:53:22; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;29276
 3; 2389.0; 06-OCT-2007 07:56:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29276
 4; 2921.8; 06-OCT-2007 08:05:50; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29276

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7; 3912.3; 06-OCT-2007 08:22:21; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29276  
8; 4003.5; 06-OCT-2007 08:23:52; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29276  
9; 4199.4; 06-OCT-2007 08:27:08; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;29276  
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11; 4788.4; 06-OCT-2007 08:36:57; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29276  
12; 5191.7; 06-OCT-2007 08:43:40; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;29276  
13; 5771.2; 06-OCT-2007 08:53:20; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;29276  
14; 5861.5; 06-OCT-2007 08:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29276  
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16; 6061.9; 06-OCT-2007 08:58:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;29276  
17; 6176.4; 06-OCT-2007 09:00:05; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;29276  
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19; 6794.1; 06-OCT-2007 09:10:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;29276  
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21; 7196.1; 06-OCT-2007 09:17:05; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;29276  
22; 7603.2; 06-OCT-2007 09:23:52; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;29276

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3; -162.5; 07-OCT-2007 01:41:01; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;29286  
4; -65.3; 07-OCT-2007 01:42:38; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29286  
5; 20.2; 07-OCT-2007 01:44:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29287  
6; 148.3; 07-OCT-2007 01:46:12; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29287  
7; 232.3; 07-OCT-2007 01:47:36; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;29287  
8; 761.5; 07-OCT-2007 01:56:25; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29287  
9; 849.0; 07-OCT-2007 01:57:53; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;29287  
10; 1162.6; 07-OCT-2007 02:03:06; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;29287  
11; 1568.6; 07-OCT-2007 02:09:52; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;29287  
12; 2172.5; 07-OCT-2007 02:19:56; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29287  
13; 2389.8; 07-OCT-2007 02:23:34; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29287  
14; 2918.3; 07-OCT-2007 02:32:22; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29287  
15; 3003.3; 07-OCT-2007 02:33:47; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29287  
16; 3427.4; 07-OCT-2007 02:40:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29287

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3; -1834.9; 07-OCT-2007 02:53:45; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;29287  
4; -1431.9; 07-OCT-2007 03:00:28; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29287  
5; -1244.9; 07-OCT-2007 03:03:35; Bright; 34.5; 22; 32Alp Leo ; 1.36; 15200;occ; 69; 0;29287  
6; -839.0; 07-OCT-2007 03:10:21; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;29287  
7; -259.7; 07-OCT-2007 03:20:00; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29287  
8; -161.8; 07-OCT-2007 03:21:38; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;29287  
9; -64.8; 07-OCT-2007 03:23:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29287  
10; 21.0; 07-OCT-2007 03:24:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29288  
11; 149.1; 07-OCT-2007 03:26:49; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;29288  
12; 233.2; 07-OCT-2007 03:28:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;29288  
13; 762.0; 07-OCT-2007 03:37:02; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29288  
14; 849.6; 07-OCT-2007 03:38:29; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29288  
15; 1163.0; 07-OCT-2007 03:43:43; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29288  
16; 1568.9; 07-OCT-2007 03:50:29; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;29288  
17; 2172.5; 07-OCT-2007 04:00:32; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;29288  
18; 2390.1; 07-OCT-2007 04:04:10; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;29288  
19; 2918.1; 07-OCT-2007 04:12:58; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29288  
20; 3003.1; 07-OCT-2007 04:14:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29288  
21; 3427.6; 07-OCT-2007 04:21:27; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29288

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4; -1431.7; 07-OCT-2007 04:41:04; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29288  
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6; -259.4; 07-OCT-2007 05:00:36; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;29288  
7; -161.0; 07-OCT-2007 05:02:15; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;29288  
8; -64.4; 07-OCT-2007 05:03:51; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;29288  
9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289  
10; 149.9; 07-OCT-2007 05:07:26; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29289

11; 234.0; 07-OCT-2007 05:08:50; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;29289  
 12; 762.3; 07-OCT-2007 05:17:38; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29289  
 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289  
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 16; 2172.4; 07-OCT-2007 05:41:08; Bright; 35.5; 140; 88Gam Peg ; 2.83; 26000;occ; 71; 0;29289  
 17; 2390.2; 07-OCT-2007 05:44:46; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;29289  
 18; 2917.8; 07-OCT-2007 05:53:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;29289  
 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289  
 20; 3427.5; 07-OCT-2007 06:02:03; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29289

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 5; 853.5; 07-OCT-2007 23:45:45; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29300  
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 8; 2171.1; 08-OCT-2007 00:07:42; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;29300  
 9; 2391.1; 08-OCT-2007 00:11:22; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;29300  
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300  
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 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300  
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300  
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 10; 150.7; 07-OCT-2007 06:48:02; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;29290  
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 8; 4201.5; 07-OCT-2007 07:55:33; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;29290  
 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290  
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 17; 6799.0; 07-OCT-2007 08:38:51; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;29290  
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290  
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3; 2917.2; 07-OCT-2007 09:14:45; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;29291
4; 3002.2; 07-OCT-2007 09:16:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;29291
5; 3427.5; 07-OCT-2007 09:23:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;29291
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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
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9; 4604.9; 07-OCT-2007 09:42:53; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;29291
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9; 2403.8; 20-OCT-2007 02:15:10; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29473
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6; 2954.1; 21-OCT-2007 10:15:43; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29492
7; 3425.2; 21-OCT-2007 10:23:34; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29492
8; 3622.4; 21-OCT-2007 10:26:52; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;29492
9; 3920.0; 21-OCT-2007 10:31:49; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;29492
10; 4014.2; 21-OCT-2007 10:33:23; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;29492
11; 4222.6; 21-OCT-2007 10:36:52; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;29492
12; 4695.9; 21-OCT-2007 10:44:45; Bright; 42.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 84; 0;29492
13; 5810.3; 21-OCT-2007 11:03:19; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;29492
14; 5894.1; 21-OCT-2007 11:04:43; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;29492
15; 5979.2; 21-OCT-2007 11:06:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29492
16; 6095.0; 21-OCT-2007 11:08:04; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;29492
17; 6197.0; 21-OCT-2007 11:09:46; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;29492
18; 6434.2; 21-OCT-2007 11:13:43; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29492
19; 6860.5; 21-OCT-2007 11:20:50; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29492
20; 6946.0; 21-OCT-2007 11:22:15; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;29492
21; 7116.1; 21-OCT-2007 11:25:05; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29492

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1;	1598.4;	21-OCT-2007	11:33:43;	Dark	;	44.0;	52;	16Bet	Cet	;	2.04;	4500;occ;	88;	0;	29493
2;	2170.1;	21-OCT-2007	11:43:15;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;occ;	72;	0;	29493
3;	2404.6;	21-OCT-2007	11:47:10;	Bright;	;	35.5;	58;	21Alp	And	;	2.07;	11000;occ;	71;	0;	29493
4;	2534.5;	21-OCT-2007	11:49:20;	Bright;	;	39.5;	53;	43Bet	And	;	2.05;	3300;occ;	79;	0;	29493
5;	2875.2;	21-OCT-2007	11:55:00;	Bright;	;	35.5;	68;	18Alp	Cas	;	2.22;	4500;occ;	71;	0;	29493
6;	2953.8;	21-OCT-2007	11:56:19;	Bright;	;	36.0;	76;	27Gam	Cas	;	2.30;	30000;occ;	72;	0;	29493
7;	3425.2;	21-OCT-2007	12:04:10;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	72;	0;	29493
8;	3622.7;	21-OCT-2007	12:07:28;	Bright;	;	37.5;	60;	7Bet	UMi	;	2.08;	3950;occ;	75;	0;	29493
9;	3920.0;	21-OCT-2007	12:12:25;	Bright;	;	53.0;	36;	50Alp	UMa	;	1.80;	6300;occ;	106;	0;	29493
10;	4014.3;	21-OCT-2007	12:13:59;	Bright;	;	35.5;	82;	48Bet	UMa	;	2.37;	10600;occ;	71;	0;	29493
11;	4222.9;	21-OCT-2007	12:17:28;	Bright;	;	41.0;	174;	52Psi	UMa	;	3.00;	4400;occ;	82;	0;	29493
12;	4696.2;	21-OCT-2007	12:25:21;	Bright;	;	41.0;	51;	41Gam1	Leo	;	2.01;	4500;occ;	82;	0;	29493
13;	5810.6;	21-OCT-2007	12:43:56;	Dark	;	39.0;	113;	Mu	Vel	;	2.69;	5000;occ;	78;	0;	29493
14;	5894.7;	21-OCT-2007	12:45:20;	Dark	;	55.0;	65;	Lam	Vel	;	2.20;	4400;occ;	110;	0;	29493
15;	5979.9;	21-OCT-2007	12:46:45;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	29493
16;	6095.9;	21-OCT-2007	12:48:41;	Dark	;	43.0;	34;	Gam2	Vel	;	1.79;	23000;occ;	86;	0;	29493
17;	6197.4;	21-OCT-2007	12:50:22;	Dark	;	37.5;	29;	Bet	Car	;	1.67;	10200;occ;	75;	0;	29493
18;	6435.0;	21-OCT-2007	12:54:20;	Dark	;	47.5;	2;	Alp	Car	;	-0.74;	7000;occ;	95;	0;	29493
19;	6860.8;	21-OCT-2007	13:01:26;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;occ;	75;	0;	29493
20;	6946.2;	21-OCT-2007	13:02:51;	Dark	;	48.0;	9;	Alp	Eri	;	0.45;	24000;occ;	96;	0;	29493
21;	7116.5;	21-OCT-2007	13:05:42;	Dark	;	42.0;	157;	The1	Eri	;	2.91;	9300;occ;	84;	0;	29493

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2;	2170.1;	21-OCT-2007	13:23:51;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;occ;	72;	0;	29494
3;	2404.8;	21-OCT-2007	13:27:46;	Bright;	;	35.0;	58;	21Alp	And	;	2.07;	11000;occ;	70;	0;	29494
4;	2534.3;	21-OCT-2007	13:29:55;	Bright;	;	38.0;	53;	43Bet	And	;	2.05;	3300;occ;	76;	0;	29494
5;	2875.2;	21-OCT-2007	13:35:36;	Bright;	;	38.5;	68;	18Alp	Cas	;	2.22;	4500;occ;	77;	0;	29494
6;	2953.8;	21-OCT-2007	13:36:55;	Bright;	;	36.5;	76;	27Gam	Cas	;	2.30;	30000;occ;	73;	0;	29494
7;	3425.2;	21-OCT-2007	13:44:46;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	72;	0;	29494
8;	3623.0;	21-OCT-2007	13:48:04;	Bright;	;	35.0;	60;	7Bet	UMi	;	2.08;	3950;occ;	70;	0;	29494
9;	3920.1;	21-OCT-2007	13:53:01;	Bright;	;	48.0;	36;	50Alp	UMa	;	1.80;	6300;occ;	96;	0;	29494
10;	4014.4;	21-OCT-2007	13:54:35;	Bright;	;	53.0;	82;	48Bet	UMa	;	2.37;	10600;occ;	106;	0;	29494
11;	4223.0;	21-OCT-2007	13:58:04;	Bright;	;	53.0;	174;	52Psi	UMa	;	3.00;	4400;occ;	106;	0;	29494
12;	4696.5;	21-OCT-2007	14:05:57;	Bright;	;	41.0;	51;	41Gam1	Leo	;	2.01;	4500;occ;	82;	0;	29494
13;	5811.0;	21-OCT-2007	14:24:32;	Dark	;	40.5;	113;	Mu	Vel	;	2.69;	5000;occ;	81;	0;	29494
14;	5895.5;	21-OCT-2007	14:25:56;	Dark	;	48.5;	65;	Lam	Vel	;	2.20;	4400;occ;	97;	0;	29494
15;	5980.5;	21-OCT-2007	14:27:21;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	29494
16;	6096.8;	21-OCT-2007	14:29:18;	Dark	;	43.0;	34;	Gam2	Vel	;	1.79;	23000;occ;	86;	0;	29494
17;	6197.7;	21-OCT-2007	14:30:59;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;occ;	77;	0;	29494
18;	6435.9;	21-OCT-2007	14:34:57;	Dark	;	47.0;	2;	Alp	Car	;	-0.74;	7000;occ;	94;	0;	29494
19;	6861.0;	21-OCT-2007	14:42:02;	Dark	;	37.5;	143;	Alp	Hyi	;	2.86;	7200;occ;	75;	0;	29494
20;	6946.5;	21-OCT-2007	14:43:27;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;occ;	87;	0;	29494
21;	7117.0;	21-OCT-2007	14:46:18;	Dark	;	43.5;	157;	The1	Eri	;	2.91;	9300;occ;	87;	0;	29494

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2;	2170.3;	21-OCT-2007	15:04:27;	Bright;	;	36.0;	140;	88Gam	Peg	;	2.83;	26000;occ;	72;	0;	29495
3;	2404.9;	21-OCT-2007	15:08:22;	Bright;	;	36.0;	58;	21Alp	And	;	2.07;	11000;occ;	72;	0;	29495
4;	2534.0;	21-OCT-2007	15:10:31;	Bright;	;	40.5;	53;	43Bet	And	;	2.05;	3300;occ;	81;	0;	29495
5;	2875.1;	21-OCT-2007	15:16:12;	Bright;	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;occ;	70;	0;	29495
6;	2953.5;	21-OCT-2007	15:17:30;	Bright;	;	38.0;	76;	27Gam	Cas	;	2.30;	30000;occ;	76;	0;	29495
7;	3425.3;	21-OCT-2007	15:25:22;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	72;	0;	29495
8;	3623.3;	21-OCT-2007	15:28:40;	Bright;	;	35.5;	60;	7Bet	UMi	;	2.08;	3950;occ;	71;	0;	29495
9;	3920.3;	21-OCT-2007	15:33:37;	Bright;	;	37.5;	36;	50Alp	UMa	;	1.80;	6300;occ;	75;	0;	29495
10;	4014.6;	21-OCT-2007	15:35:11;	Bright;	;	34.0;	82;	48Bet	UMa	;	2.37;	10600;occ;	68;	0;	29495
11;	4223.1;	21-OCT-2007	15:38:40;	Bright;	;	37.5;	174;	52Psi	UMa	;	3.00;	4400;occ;	75;	0;	29495
12;	4697.0;	21-OCT-2007	15:46:34;	Bright;	;	40.5;	51;	41Gam1	Leo	;	2.01;	4500;occ;	81;	0;	29495
13;	5811.3;	21-OCT-2007	16:05:08;	Dark	;	38.0;	113;	Mu	Vel	;	2.69;	5000;occ;	76;	0;	29495
14;	5896.3;	21-OCT-2007	16:06:33;	Dark	;	55.0;	65;	Lam	Vel	;	2.20;	4400;occ;	110;	0;	29495
15;	5981.3;	21-OCT-2007	16:07:58;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	29495
16;	6097.7;	21-OCT-2007	16:09:54;	Dark	;	42.0;	34;	Gam2	Vel	;	1.79;	23000;occ;	84;	0;	29495
17;	6198.1;	21-OCT-2007	16:11:35;	Dark	;	38.5;	29;	Bet	Car	;	1.67;	10200;occ;	77;	0;	29495
18;	6436.8;	21-OCT-2007	16:15:34;	Dark	;	47.0;	2;	Alp	Car	;	-0.74;	7000;occ;	94;	0;	29495
19;	6861.3;	21-OCT-2007	16:22:38;	Dark	;	36.5;	143;	Alp	Hyi	;	2.86;	7200;occ;	73;	0;	29495
20;	6946.9;	21-OCT-2007	16:24:04;	Dark	;	46.5;	9;	Alp	Eri	;	0.45;	24000;occ;	93;	0;	29495
21;	7117.7;	21-OCT-2007	16:26:54;	Dark	;	42.5;	157;	The1	Eri	;	2.91;	9300;occ;	85;	0;	29495

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1;	1598.9;	21-OCT-2007	16:35:32;	Dark	;	43.0;	52;	16Bet	Cet	;	2.04;	4500;occ;	86;	0;	29496
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 3; 2405.0; 21-OCT-2007 16:48:58; Bright; 35.5; 58; 21Alp And ; 2.07; 11000;occ; 71; 0;29496  
 4; 2533.8; 21-OCT-2007 16:51:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;29496  
 5; 2875.0; 21-OCT-2007 16:56:48; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29496  
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 13; 5811.5; 21-OCT-2007 17:45:44; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;29496  
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 15; 5981.9; 21-OCT-2007 17:48:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29496  
 16; 6075.8; 21-OCT-2007 17:50:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;29496  
 17; 6198.4; 21-OCT-2007 17:52:11; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;29496  
 18; 6437.6; 21-OCT-2007 17:56:10; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;29496  
 19; 6861.6; 21-OCT-2007 18:03:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29496  
 20; 6947.1; 21-OCT-2007 18:04:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;29496

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 2; 1081.7; 21-OCT-2007 18:07:30; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;29497  
 3; 1599.0; 21-OCT-2007 18:16:08; Dark ; 40.5; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;29497  
 4; 2170.4; 21-OCT-2007 18:25:39; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;29497  
 5; 2405.0; 21-OCT-2007 18:29:34; Bright; 36.0; 58; 21Alp And ; 2.07; 11000;occ; 72; 0;29497  
 6; 2533.6; 21-OCT-2007 18:31:42; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29497  
 7; 2874.9; 21-OCT-2007 18:37:24; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;29497  
 8; 2953.3; 21-OCT-2007 18:38:42; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29497  
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 11; 3919.9; 21-OCT-2007 18:54:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;29497  
 12; 4014.3; 21-OCT-2007 18:56:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;29497  
 13; 4223.3; 21-OCT-2007 18:59:52; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;29497  
 14; 4697.5; 21-OCT-2007 19:07:46; Bright; 59.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 118; 0;29497  
 15; 5811.8; 21-OCT-2007 19:26:21; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;29497  
 16; 5897.6; 21-OCT-2007 19:27:46; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;29497  
 17; 5982.5; 21-OCT-2007 19:29:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29497  
 18; 6076.3; 21-OCT-2007 19:30:45; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;29497  
 19; 6198.6; 21-OCT-2007 19:32:47; Dark ; 42.5; 29; Bet Car ; 1.67; 10200;occ; 85; 0;29497  
 20; 6438.3; 21-OCT-2007 19:36:47; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;29497  
 21; 6861.7; 21-OCT-2007 19:43:51; Dark ; 33.5; 143; Alp Hyi ; 2.86; 7200;occ; 67; 0;29497

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 4; 41.0; 21-OCT-2007 21:11:22; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29499  
 5; 162.8; 21-OCT-2007 21:13:23; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;29499  
 6; 403.2; 21-OCT-2007 21:17:24; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;29499  
 7; 825.9; 21-OCT-2007 21:24:27; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;29499  
 8; 911.5; 21-OCT-2007 21:25:52; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29499  
 9; 1082.8; 21-OCT-2007 21:28:43; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;29499  
 10; 1599.2; 21-OCT-2007 21:37:20; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;29499  
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 13; 2533.1; 21-OCT-2007 21:52:54; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29499  
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