

# GOMOS Daily Report 04-JAN-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	11JAN2007 12:38:32
Data source version	GOMOS/5.00
Start time of products	04-01-2007 (04JAN2007 00:00:00)
Stop time of products	05-01-2007 (05JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

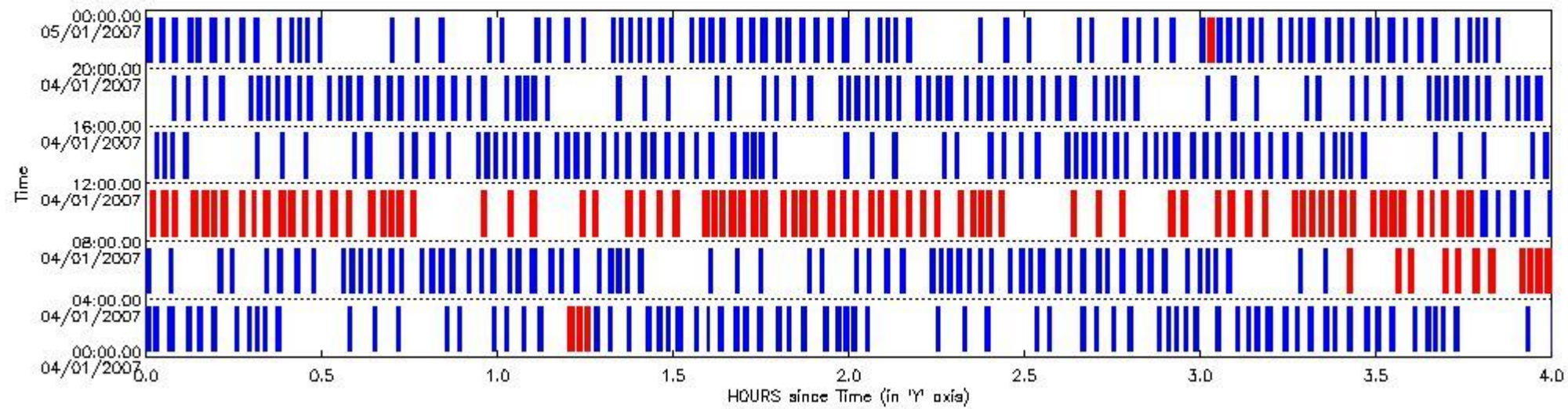
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
04-JAN-2007 01:12:02	GamLup	131	25335
04-JAN-2007 01:13:26	BetLup	109	25335
04-JAN-2007 01:14:55	AlpLup	78	25335
04-JAN-2007 07:25:00	14EtaDra	119	25339
04-JAN-2007 07:33:25	40ZetHer	133	25339
04-JAN-2007 07:35:30	5AlpCrB	67	25339
04-JAN-2007 07:41:20	24AlpSer	102	25339
04-JAN-2007 07:43:37	1DelOph	120	25339
04-JAN-2007 07:46:31	27BetLib	104	25339
04-JAN-2007 07:49:17	9Alp2Lib	122	25339
04-JAN-2007 07:54:27	GamLup	131	25339
04-JAN-2007 07:55:52	BetLup	109	25339
04-JAN-2007 07:57:21	AlpLup	78	25339
04-JAN-2007 07:58:57	ZetCen	95	25339
04-JAN-2007 08:00:39	EpsCen	77	25340

04-JAN-2007 08:02:35	GamCen	64	25340
04-JAN-2007 08:04:24	Alp1Cru	12	25340
04-JAN-2007 08:07:45	TheCar	124	25340
04-JAN-2007 08:09:35	BetCar	29	25340
04-JAN-2007 08:11:06	lotCar	71	25340
04-JAN-2007 08:12:51	DSA1030	0	25340
04-JAN-2007 08:15:50	Gam2Vel	34	25340
04-JAN-2007 08:18:02	ZetPup	70	25340
04-JAN-2007 08:20:00	PiPup	117	25340
04-JAN-2007 08:22:45	21EpsCMA	23	25340
04-JAN-2007 08:24:15	24Omi2CMA	179	25340
04-JAN-2007 08:26:39	9AlpCMA	1	25340
04-JAN-2007 08:29:08	53KapOri	56	25340
04-JAN-2007 08:31:37	46EpsOri	30	25340
04-JAN-2007 08:34:03	58AlpOri	14	25340
04-JAN-2007 08:38:00	23ZetTau	176	25340
04-JAN-2007 08:40:07	12BetTau	28	25340
04-JAN-2007 08:41:27	3lotAur	114	25340
04-JAN-2007 08:42:49	37TheAur	107	25340
04-JAN-2007 08:45:02	13AlpAur	6	25340
04-JAN-2007 08:57:16	1AlpUMi	49	25340
04-JAN-2007 09:01:38	7BetUMi	60	25340
04-JAN-2007 09:05:36	14EtaDra	119	25340
04-JAN-2007 09:14:01	40ZetHer	133	25340
04-JAN-2007 09:16:06	5AlpCrB	67	25340
04-JAN-2007 09:21:57	24AlpSer	102	25340
04-JAN-2007 09:24:13	1DelOph	120	25340
04-JAN-2007 09:27:08	27BetLib	104	25340
04-JAN-2007 09:29:54	9Alp2Lib	122	25340
04-JAN-2007 09:35:03	GamLup	131	25340
04-JAN-2007 09:36:28	BetLup	109	25340
04-JAN-2007 09:37:57	AlpLup	78	25340
04-JAN-2007 09:39:33	ZetCen	95	25340
04-JAN-2007 09:41:15	EpsCen	77	25341
04-JAN-2007 09:43:12	GamCen	64	25341
04-JAN-2007 09:45:01	Alp1Cru	12	25341
04-JAN-2007 09:48:22	TheCar	124	25341
04-JAN-2007 09:50:11	BetCar	29	25341
04-JAN-2007 09:51:42	lotCar	71	25341
04-JAN-2007 09:53:27	DSA1030	0	25341
04-JAN-2007 09:56:27	Gam2Vel	34	25341
04-JAN-2007 09:58:38	ZetPup	70	25341
04-JAN-2007 10:00:37	PiPup	117	25341
04-JAN-2007 10:03:21	21EpsCMA	23	25341
04-JAN-2007 10:04:51	24Omi2CMA	179	25341
04-JAN-2007 10:07:15	9AlpCMA	1	25341
04-JAN-2007 10:09:44	53KapOri	56	25341
04-JAN-2007 10:12:13	46EpsOri	30	25341
04-JAN-2007 10:14:39	58AlpOri	14	25341
04-JAN-2007 10:18:36	23ZetTau	176	25341
04-JAN-2007 10:20:43	12BetTau	28	25341
04-JAN-2007 10:22:03	3lotAur	114	25341
04-JAN-2007 10:23:25	37TheAur	107	25341
04-JAN-2007 10:25:38	13AlpAur	6	25341
04-JAN-2007 10:37:52	1AlpUMi	49	25341
04-JAN-2007 10:42:14	7BetUMi	60	25341
04-JAN-2007 10:46:12	14EtaDra	119	25341
04-JAN-2007 10:54:37	40ZetHer	133	25341
04-JAN-2007 10:56:42	5AlpCrB	67	25341

04-JAN-2007 11:02:33	24AlpSer	102	25341
04-JAN-2007 11:04:49	1DelOph	120	25341
04-JAN-2007 11:07:44	27BetLib	104	25341
04-JAN-2007 11:10:30	9Alp2Lib	122	25341
04-JAN-2007 11:15:40	GamLup	131	25341
04-JAN-2007 11:17:04	BetLup	109	25341
04-JAN-2007 11:18:34	AlpLup	78	25341
04-JAN-2007 11:20:10	ZetCen	95	25341
04-JAN-2007 11:21:52	EpsCen	77	25342
04-JAN-2007 11:23:48	GamCen	64	25342
04-JAN-2007 11:25:37	Alp1Cru	12	25342
04-JAN-2007 11:28:58	TheCar	124	25342
04-JAN-2007 11:30:48	BetCar	29	25342
04-JAN-2007 11:32:19	lotCar	71	25342
04-JAN-2007 11:34:04	DSA1030	0	25342
04-JAN-2007 11:37:03	Gam2Vel	34	25342
04-JAN-2007 11:39:15	ZetPup	70	25342
04-JAN-2007 11:41:13	PiPup	117	25342
04-JAN-2007 11:43:57	21EpsCMa	23	25342
04-JAN-2007 11:45:28	24Omi2CMa	179	25342
04-JAN-2007 23:01:19	BetLup	109	25348

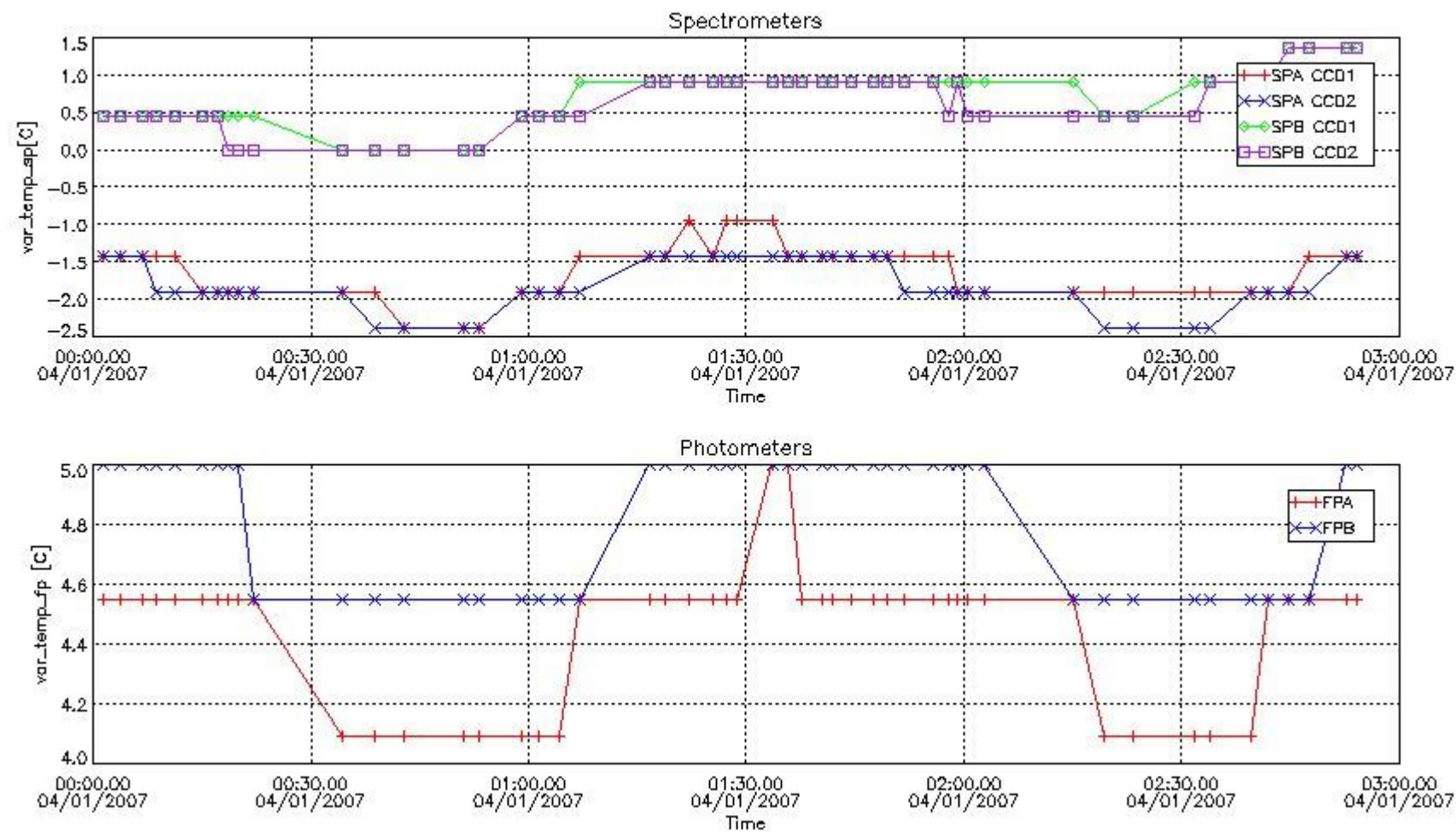
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070104_000121_000000432054_00231_25335_1283.N1	04-JAN-2007 00:01:21	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	25335	No
2	GOM_TRA_1PNPDE20070104_000345_000000522054_00231_25335_1284.N1	04-JAN-2007 00:03:45	Straylight	52.000	1	9Alp CMa	-1.4400	11000.	104	25335	No
3	GOM_TRA_1PNPDE20070104_000654_000000502054_00231_25335_1285.N1	04-JAN-2007 00:06:54	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	25335	No
4	GOM_TRA_1PNPDE20070104_000843_000000462054_00231_25335_1286.N1	04-JAN-2007 00:08:43	Straylight	45.500	30	46Eps Ori	1.6940	30000.	91	25335	No
5	GOM_TRA_1PNPDE20070104_001110_000000532054_00231_25335_1287.N1	04-JAN-2007 00:11:10	Twilight_and_stray	52.500	14	58Alp Ori	0.87000	3000.0	105	25335	No
6	GOM_TRA_1PNPDE20070104_001508_000000372054_00231_25335_1288.N1	04-JAN-2007 00:15:08	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	25335	No
7	GOM_TRA_1PNPDE20070104_001714_000000362054_00231_25335_1289.N1	04-JAN-2007 00:17:14	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	25335	No
8	GOM_TRA_1PNPDE20070104_001833_000000372054_00231_25335_1290.N1	04-JAN-2007 00:18:33	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	25335	No
9	GOM_TRA_1PNPDE20070104_001957_000000392054_00231_25335_1291.N1	04-JAN-2007 00:19:57	Bright	38.500	107	37The Aur	2.6490	11000.	77	25335	No
10	GOM_TRA_1PNPDE20070104_002209_000000412054_00231_25335_1292.N1	04-JAN-2007 00:22:09	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	25335	No
11	GOM_TRA_1PNPDE20070104_003422_000000332054_00231_25335_1293.N1	04-JAN-2007 00:34:22	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25335	No
12	GOM_TRA_1PNPDE20070104_003846_000000382054_00231_25335_1294.N1	04-JAN-2007 00:38:46	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25335	No
13	GOM_TRA_1PNPDE20070104_004242_000000342054_00231_25335_1295.N1	04-JAN-2007 00:42:42	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	25335	No
14	GOM_TRA_1PNPDE20070104_005107_000000342054_00231_25335_1296.N1	04-JAN-2007 00:51:07	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	25335	No
15	GOM_TRA_1PNPDE20070104_005312_000000372054_00231_25335_1297.N1	04-JAN-2007 00:53:12	Bright	36.500	67	5Alp CrB	2.2210	11000.	73	25335	No
16	GOM_TRA_1PNPDE20070104_005902_000000372054_00231_25335_1298.N1	04-JAN-2007 00:59:02	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	25335	No
17	GOM_TRA_1PNPDE20070104_010119_000000342054_00231_25335_1299.N1	04-JAN-2007 01:01:19	Bright	33.500	120	1Del Oph	2.7340	3200.0	67	25335	No
18	GOM_TRA_1PNPDE20070104_010412_000000392054_00231_25335_1300.N1	04-JAN-2007 01:04:12	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	25335	No
19	GOM_TRA_1PNPDE20070104_010657_000000462054_00231_25335_1538.N1	04-JAN-2007 01:06:57	Twilight_and_stray	46.000	122	9Alp2Lib	2.7470	9700.0	92	25335	No
20	GOM_TRA_1PNPDE20070104_011637_000000412054_00231_25335_1539.N1	04-JAN-2007 01:16:37	Dark	40.500	95	Zet Cen	2.5450	26000.	81	25335	No
21	GOM_TRA_1PNPDE20070104_011851_000000442054_00232_25336_1540.N1	04-JAN-2007 01:18:51	Dark	43.500	10	Bet Cen	0.61000	28000.	87	25336	No
22	GOM_TRA_1PNPDE20070104_012205_000000432054_00232_25336_1541.N1	04-JAN-2007 01:22:05	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25336	No
23	GOM_TRA_1PNPDE20070104_012526_000000382054_00232_25336_1542.N1	04-JAN-2007 01:25:26	Dark	38.000	124	The Car	2.7640	30000.	76	25336	No
24	GOM_TRA_1PNPDE20070104_012717_000000422054_00232_25336_1543.N1	04-JAN-2007 01:27:17	Dark	42.000	29	Bet Car	1.6720	10200.	84	25336	No
25	GOM_TRA_1PNPDE20070104_012847_000000422054_00232_25336_1544.N1	04-JAN-2007 01:28:47	Dark	42.000	71	lot Car	2.2460	7700.0	84	25336	No
26	GOM_TRA_1PNPDE20070104_013331_000000432054_00232_25336_1545.N1	04-JAN-2007 01:33:31	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	25336	No
27	GOM_TRA_1PNPDE20070104_013543_000000282054_00232_25336_1546.N1	04-JAN-2007 01:35:43	Dark	28.000	70	Zet Pup	2.2460	39000.	56	25336	No
28	GOM_TRA_1PNPDE20070104_013742_000000462054_00232_25336_1547.N1	04-JAN-2007 01:37:42	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	25336	No
29	GOM_TRA_1PNPDE20070104_014026_000000472054_00232_25336_1548.N1	04-JAN-2007 01:40:26	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	25336	No
30	GOM_TRA_1PNPDE20070104_014157_000000432054_00232_25336_1549.N1	04-JAN-2007 01:41:57	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	25336	No
31	GOM_TRA_1PNPDE20070104_014422_000000562054_00232_25336_1550.N1	04-JAN-2007 01:44:22	Straylight	55.500	1	9Alp CMa	-1.4400	11000.	111	25336	No
32	GOM_TRA_1PNPDE20070104_014730_000000482054_00232_25336_1551.N1	04-JAN-2007 01:47:30	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	25336	No
33	GOM_TRA_1PNPDE20070104_014919_000000442054_00232_25336_1552.N1	04-JAN-2007 01:49:19	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	25336	No



34	GOM_TRA_1PNPDE20070104_015146_000000542054_00232_25336_1553.N1	04-JAN-2007 01:51:46	Twilight_stray	54.000	14	58Alp Ori	0.87000	3000.0	108	25336	No
35	GOM_TRA_1PNPDE20070104_015543_000000382054_00232_25336_1554.N1	04-JAN-2007 01:55:43	Bright	38.000	176	23Zet Tau	3.0200	22000.	76	25336	No
36	GOM_TRA_1PNPDE20070104_015750_000000372054_00232_25336_1555.N1	04-JAN-2007 01:57:50	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	25336	No
37	GOM_TRA_1PNPDE20070104_015909_000000392054_00232_25336_1556.N1	04-JAN-2007 01:59:09	Bright	39.000	114	3Iot Aur	2.6930	4600.0	78	25336	No
38	GOM_TRA_1PNPDE20070104_020033_000000362054_00232_25336_1557.N1	04-JAN-2007 02:00:33	Bright	36.000	107	37The Aur	2.6490	11000.	72	25336	No
39	GOM_TRA_1PNPDE20070104_020245_000000432054_00232_25336_1558.N1	04-JAN-2007 02:02:45	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	25336	No
40	GOM_TRA_1PNPDE20070104_021458_000000332054_00232_25336_1559.N1	04-JAN-2007 02:14:58	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25336	No
41	GOM_TRA_1PNPDE20070104_021921_000000372054_00232_25336_1799.N1	04-JAN-2007 02:19:21	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25336	No
42	GOM_TRA_1PNPDE20070104_022318_000000492054_00232_25336_1800.N1	04-JAN-2007 02:23:18	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	25336	No
43	GOM_TRA_1PNPDE20070104_023143_000000352054_00232_25336_1801.N1	04-JAN-2007 02:31:43	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	25336	No
44	GOM_TRA_1PNPDE20070104_023348_000000382054_00232_25336_1802.N1	04-JAN-2007 02:33:48	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	25336	No
45	GOM_TRA_1PNPDE20070104_023938_000000362054_00232_25336_1803.N1	04-JAN-2007 02:39:38	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	25336	No
46	GOM_TRA_1PNPDE20070104_024155_000000332054_00232_25336_1804.N1	04-JAN-2007 02:41:55	Bright	33.000	120	1Del Oph	2.7340	3200.0	66	25336	No
47	GOM_TRA_1PNPDE20070104_024448_000000402054_00232_25336_1805.N1	04-JAN-2007 02:44:48	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	25336	No
48	GOM_TRA_1PNPDE20070104_024734_000000432054_00232_25336_1806.N1	04-JAN-2007 02:47:34	Twilight_stray	43.000	122	9Alp2Lib	2.7470	9700.0	86	25336	No
49	GOM_TRA_1PNPDE20070104_025245_000000362054_00232_25336_1807.N1	04-JAN-2007 02:52:45	Dark	36.000	131	Gam Lup	2.8000	26000.	72	25336	No
50	GOM_TRA_1PNPDE20070104_025409_000000382054_00232_25336_1808.N1	04-JAN-2007 02:54:09	Dark	37.500	109	Bet Lup	2.6770	26000.	75	25336	No

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



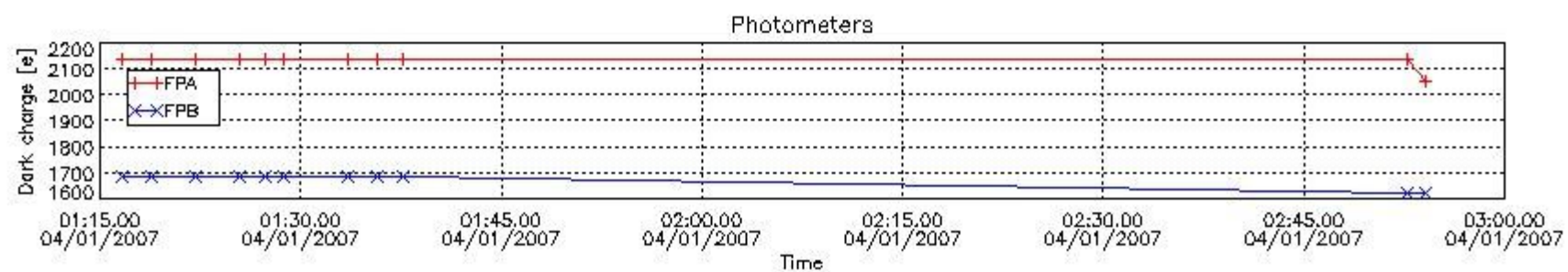
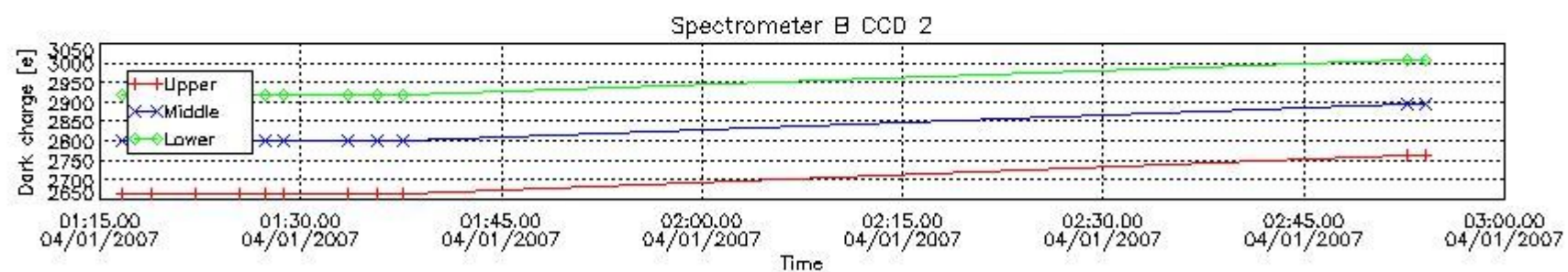
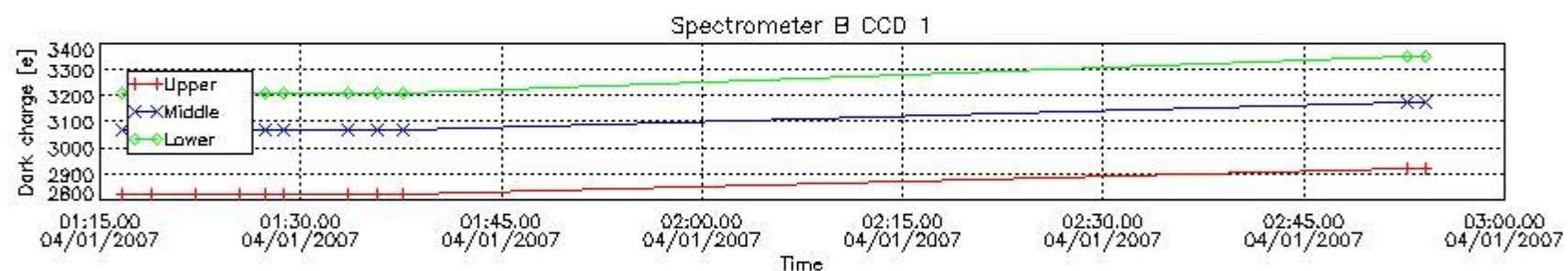
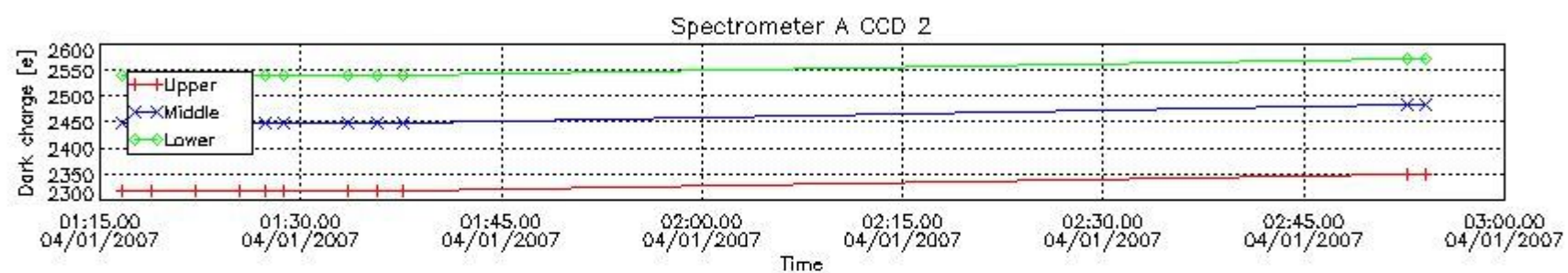
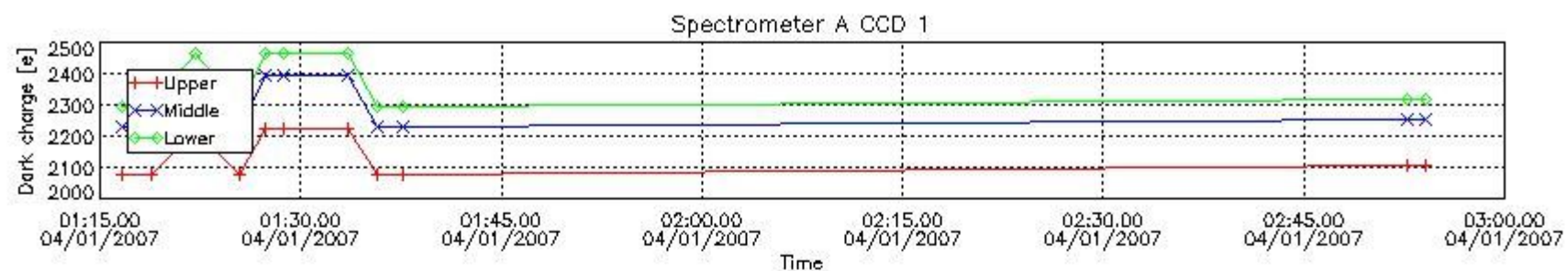
### 4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



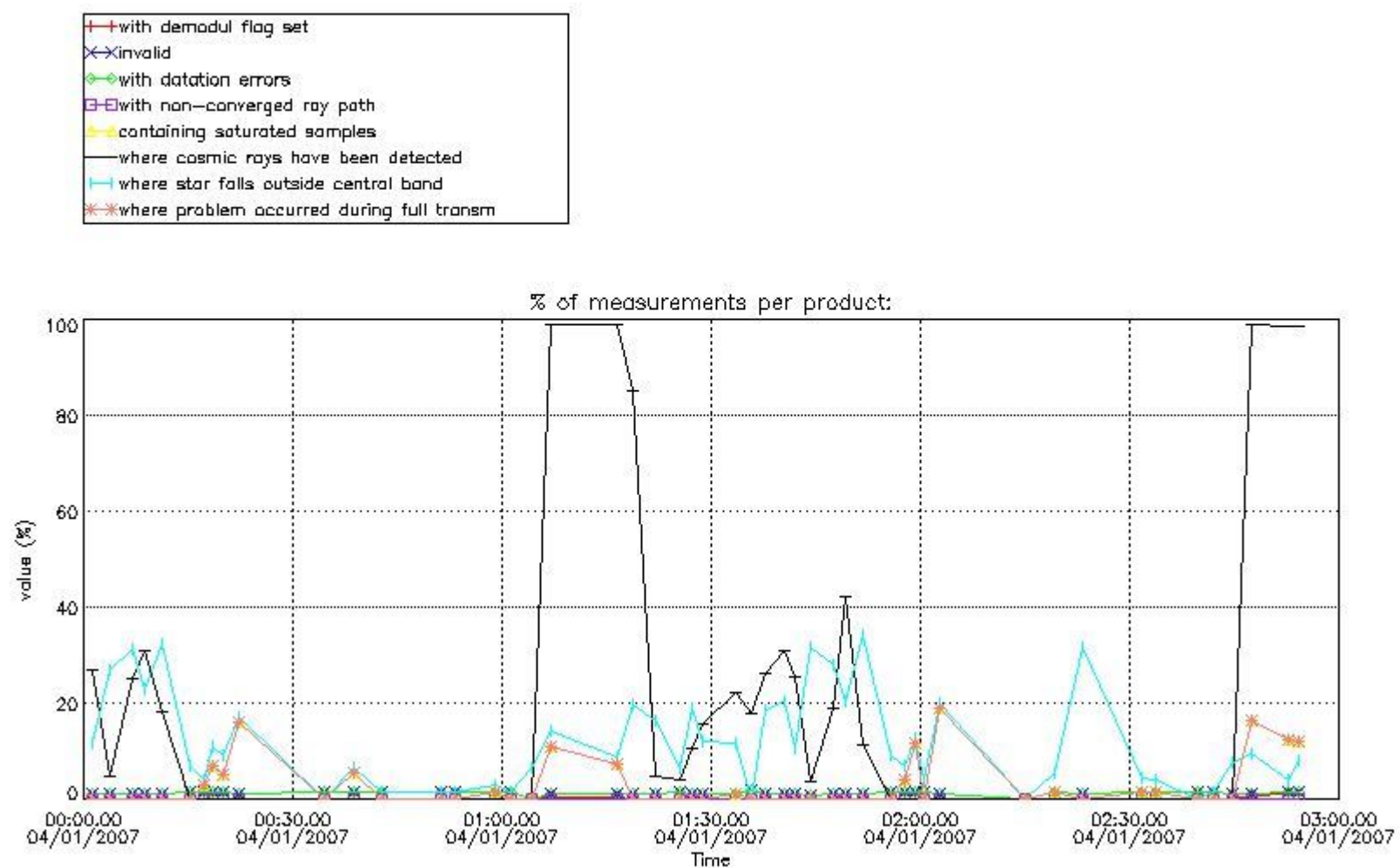
## 5. Demodulation flag and quality information monitoring

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:

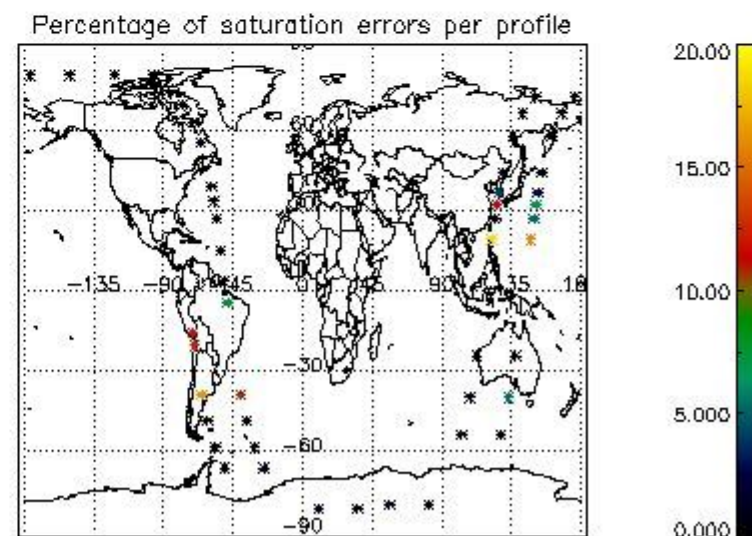
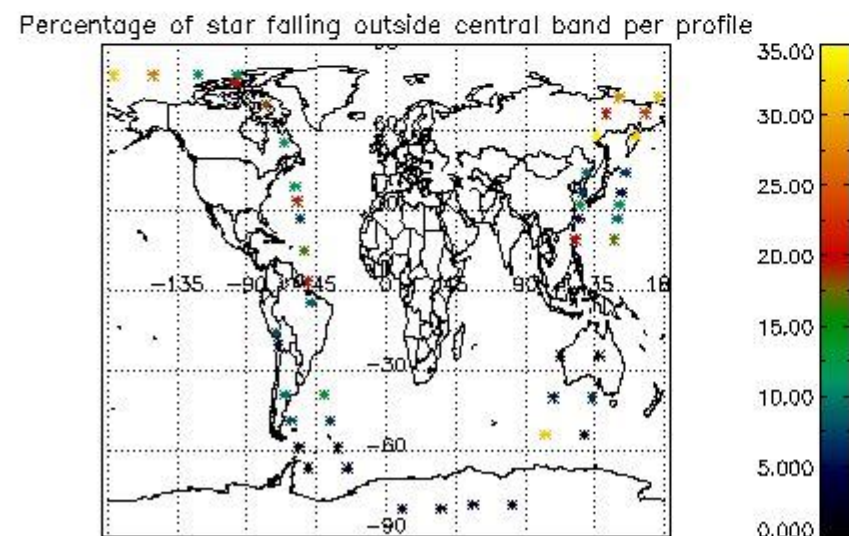
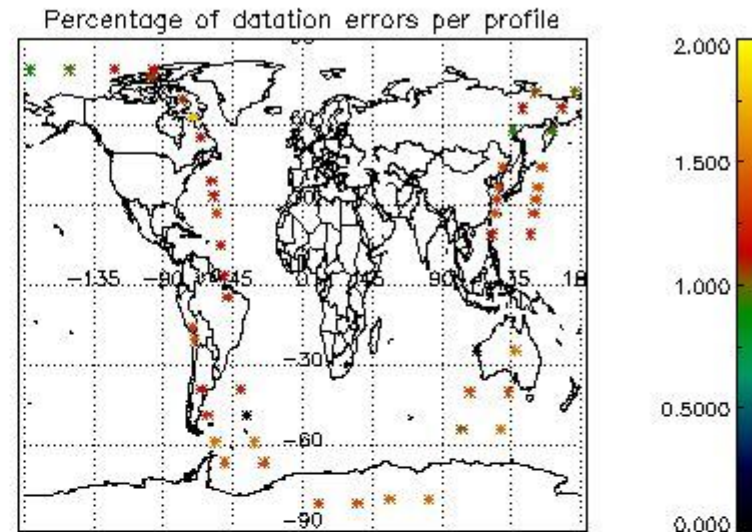
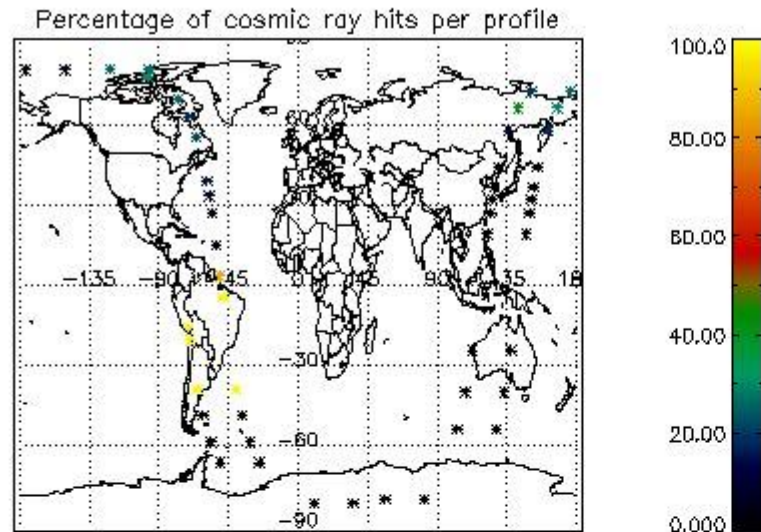
At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





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

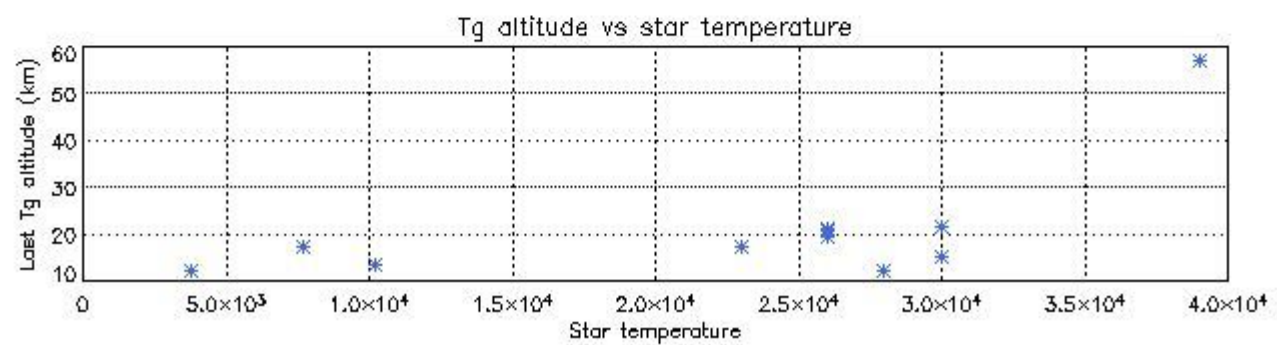
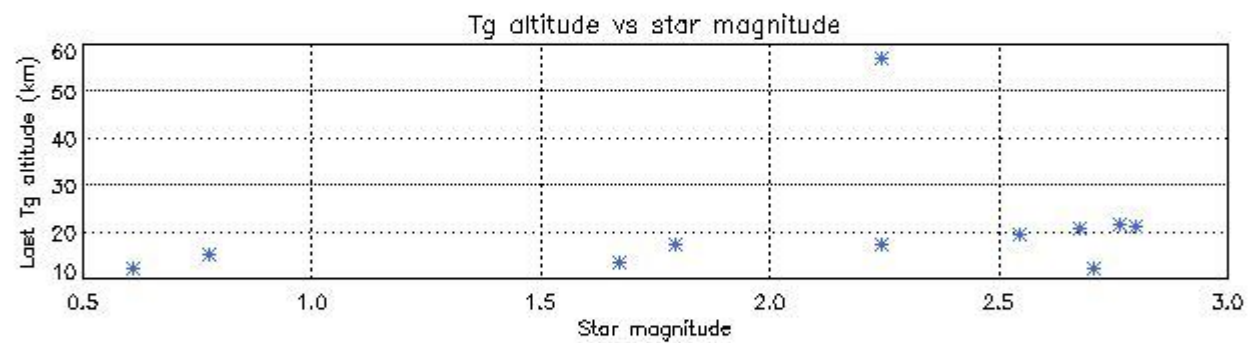
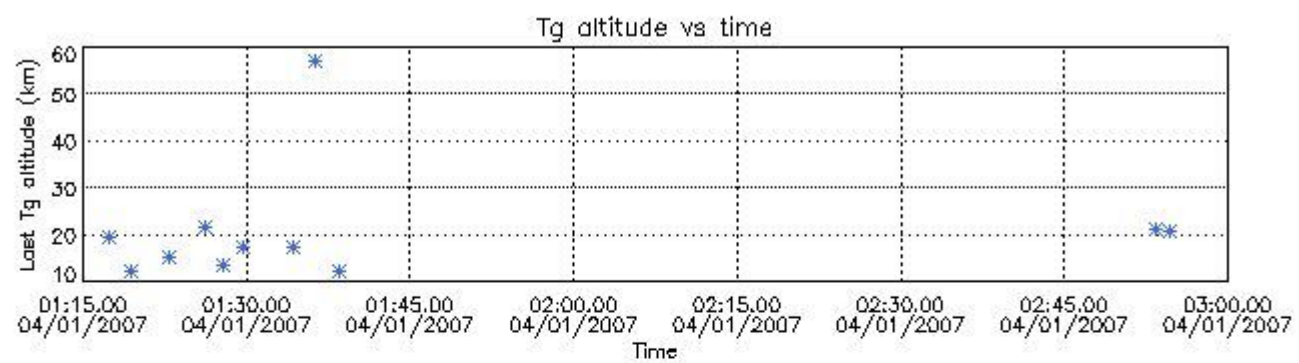
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.630	20.897	NaN
St. deviation:	12.562	5.2999	NaN
Maximum:	57.042	28.747	NaN
Minimum:	12.068	5.6254	NaN
Number of data:	11.000	26.000	NaN

### 6.2 Plot for DARK limb products

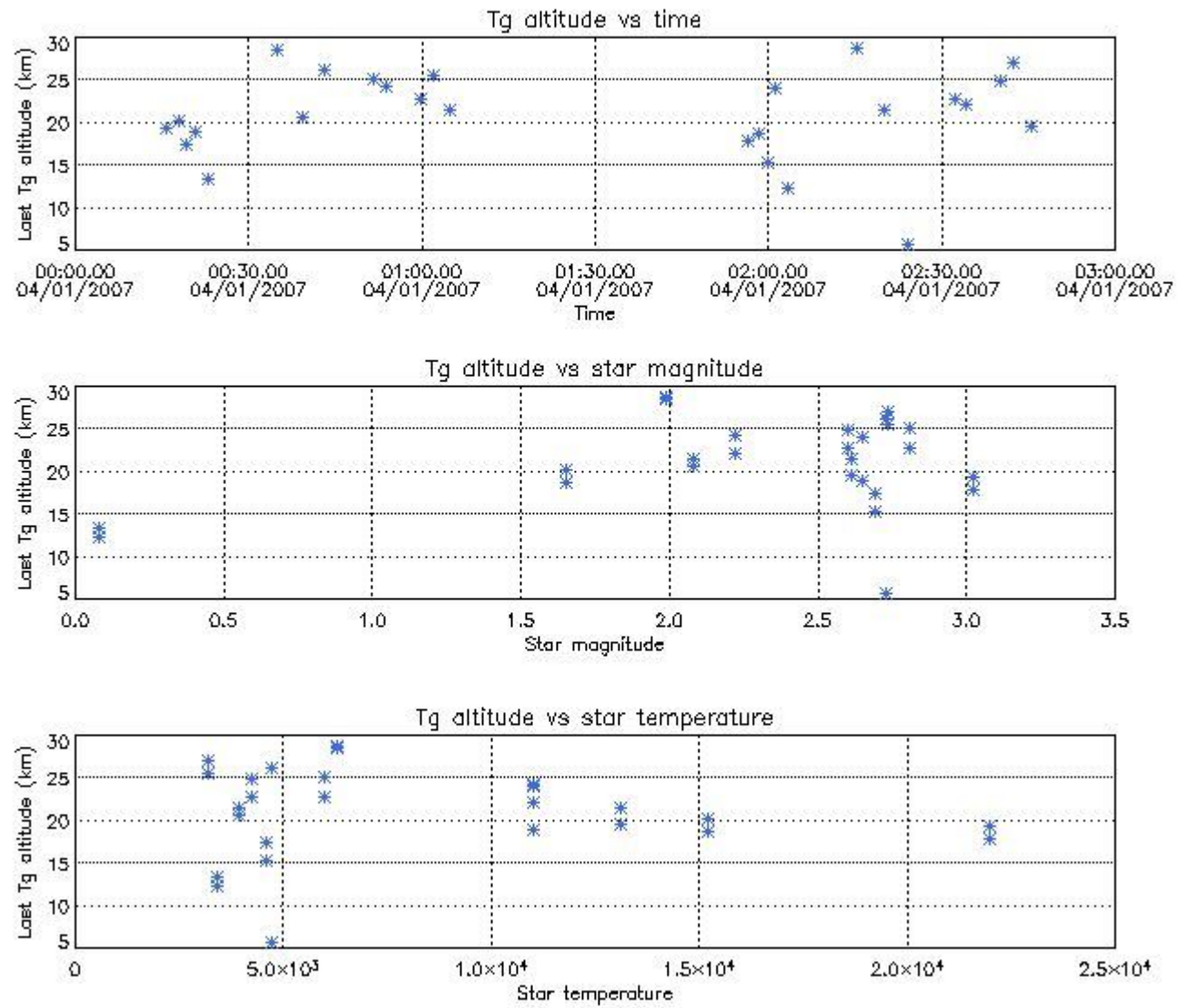


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

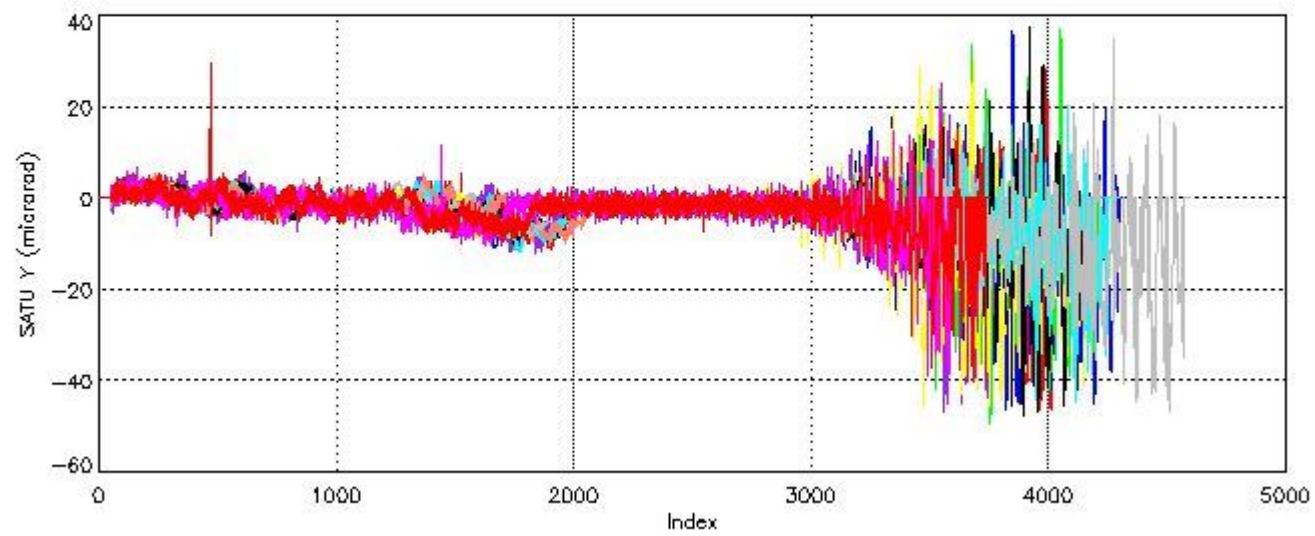
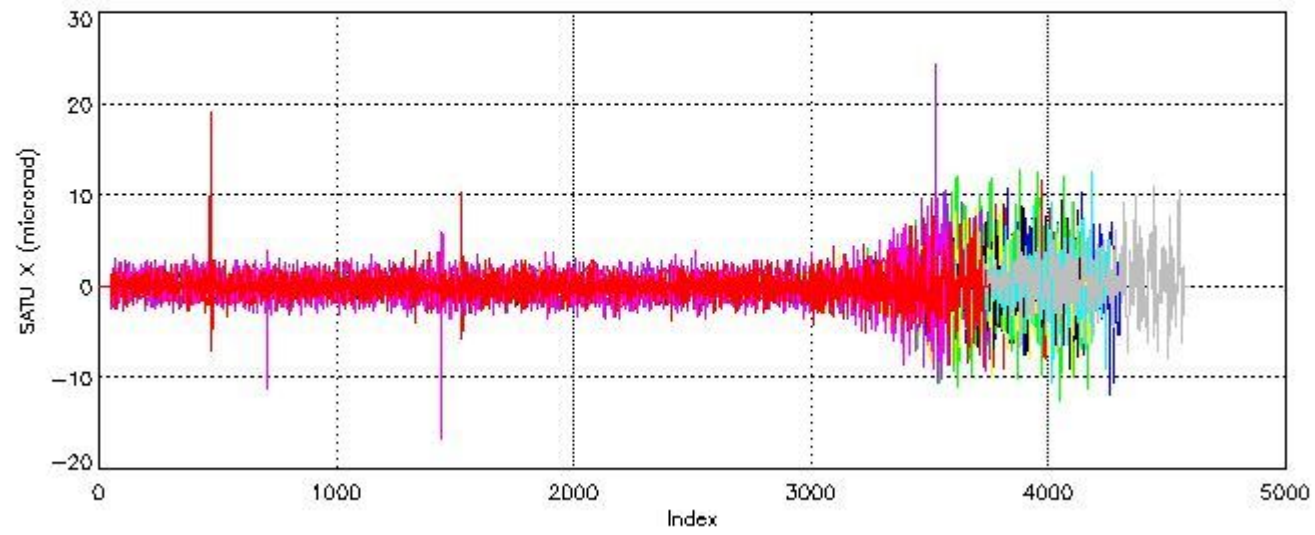


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.12078	0.024653	0.057720	-0.58186
St. deviation:	0.66810	1.8385	0.72225	1.7475
Maximum:	19.000	29.300	4.5000	7.3000
Minimum:	-11.300	-8.2000	-5.2000	-7.8000



Number of data:	10350.	10350.	21900.	21900.
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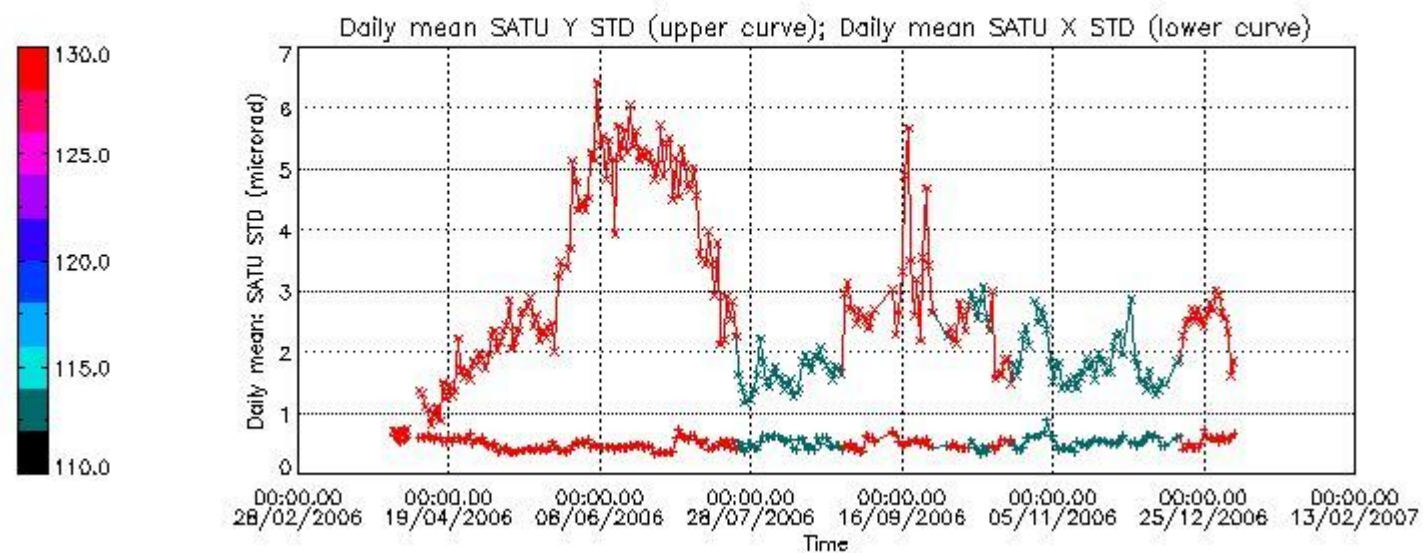
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

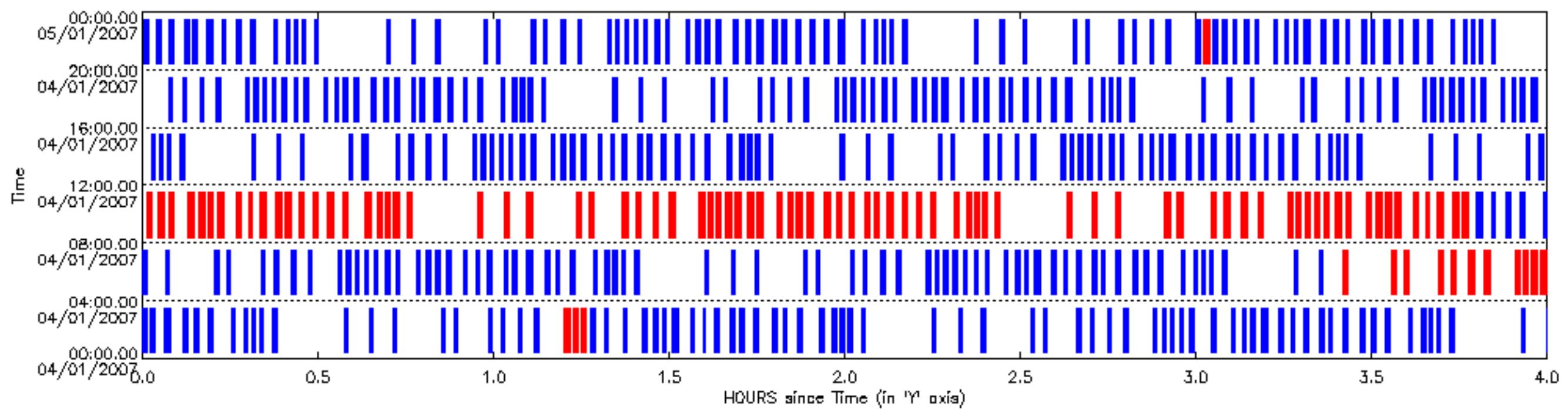
Lower curve: STD of SATU X axis

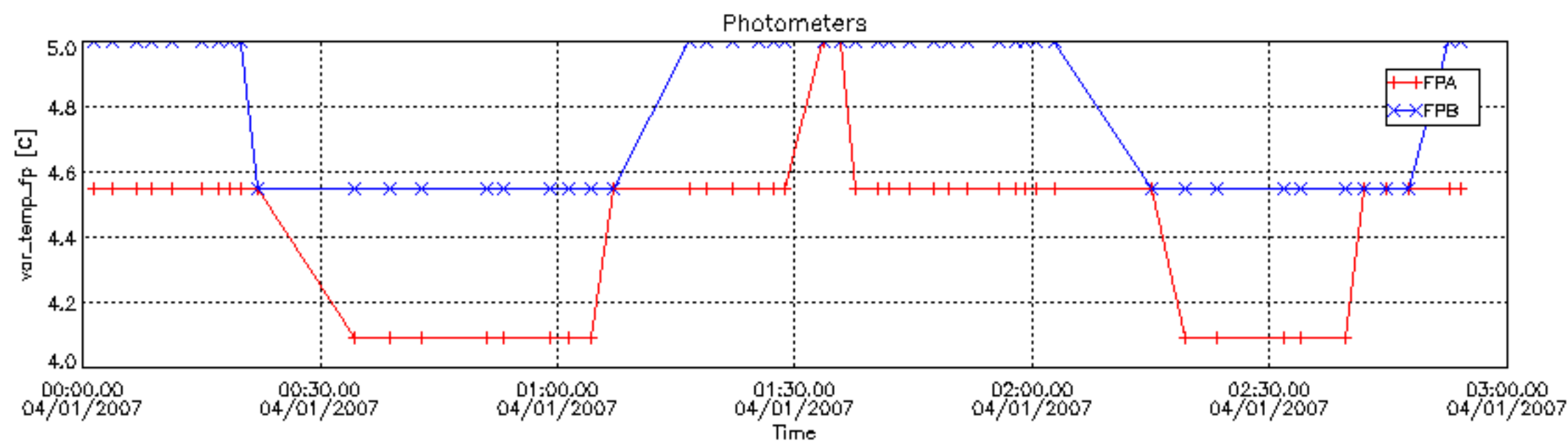
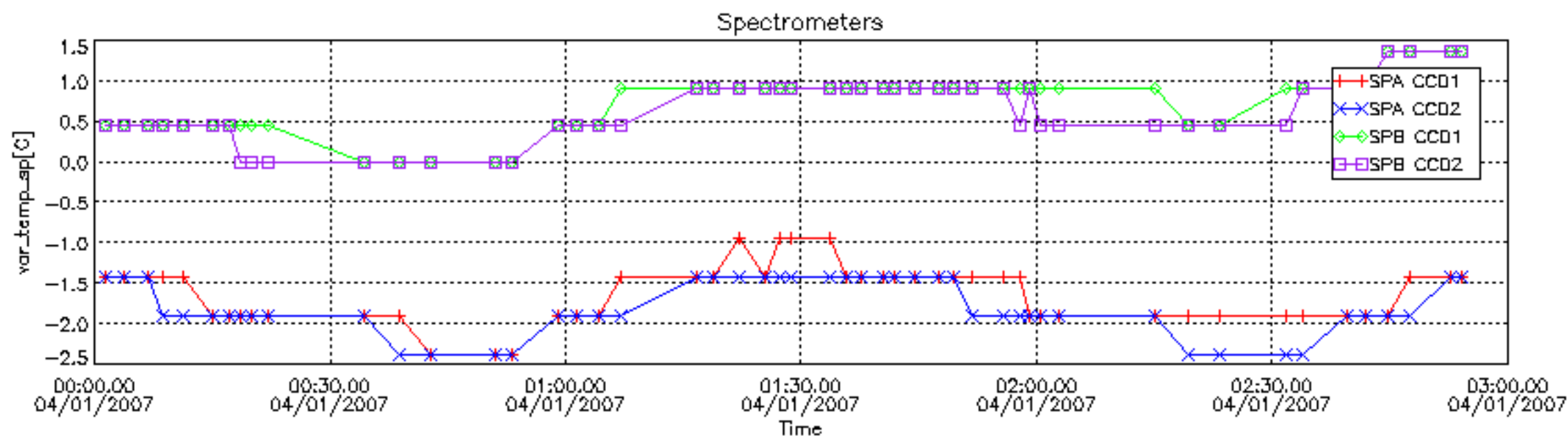


### 8. Auxiliary Data Files used for the production reported in section 2.4

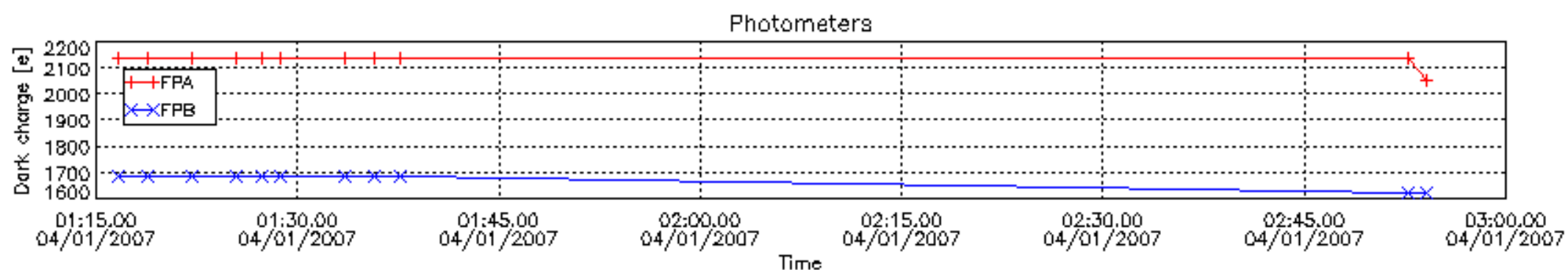
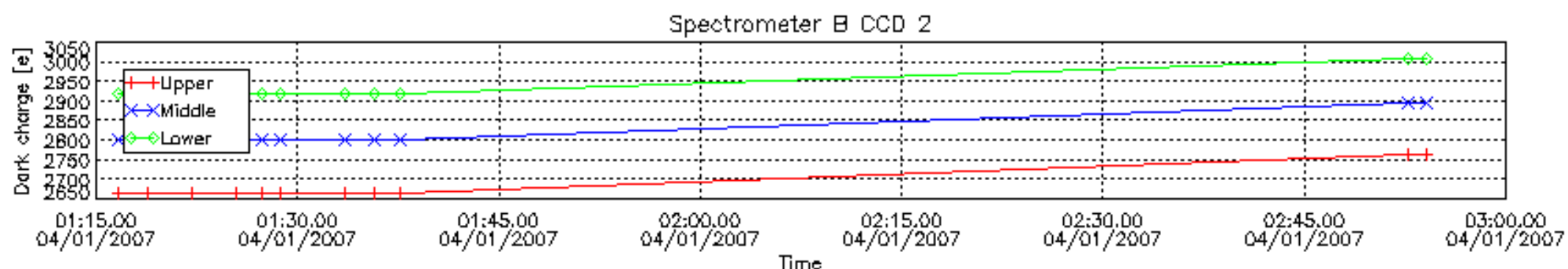
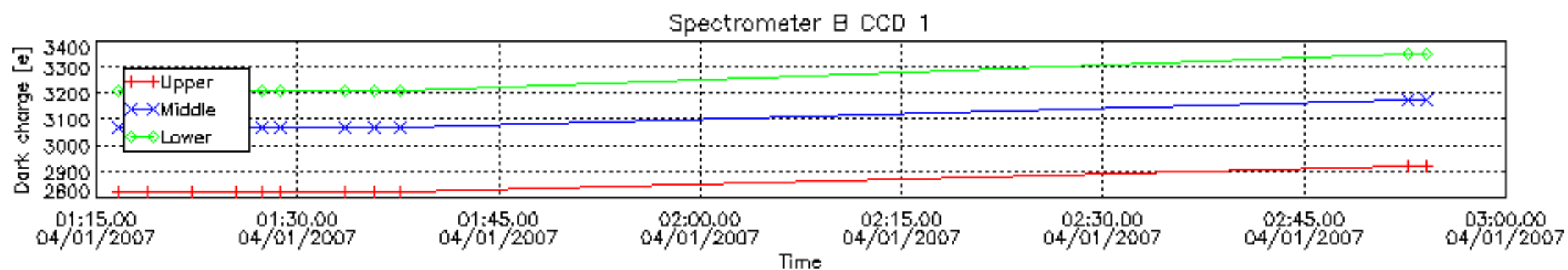
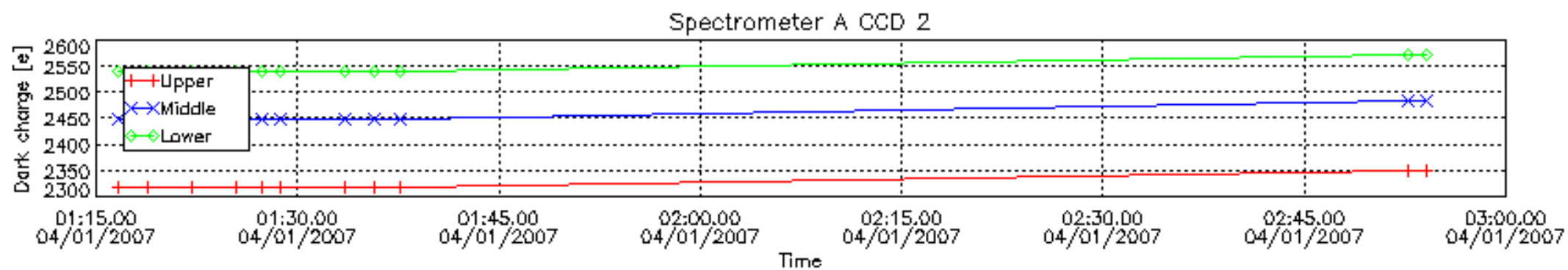
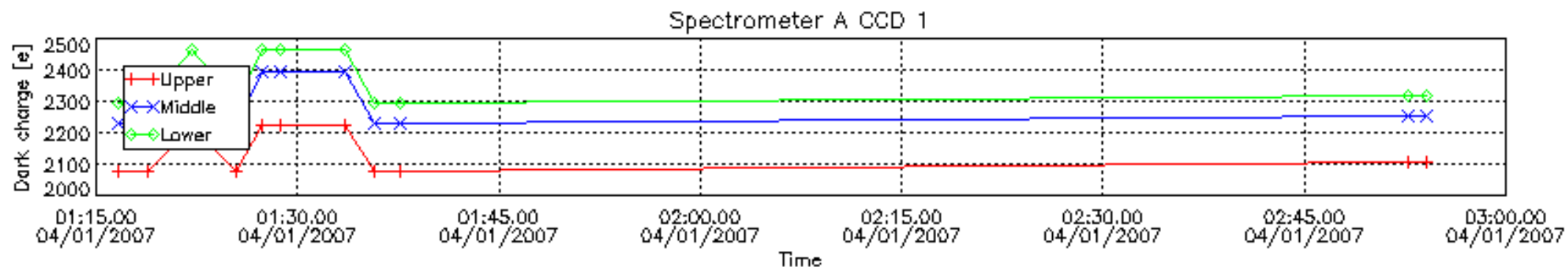
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

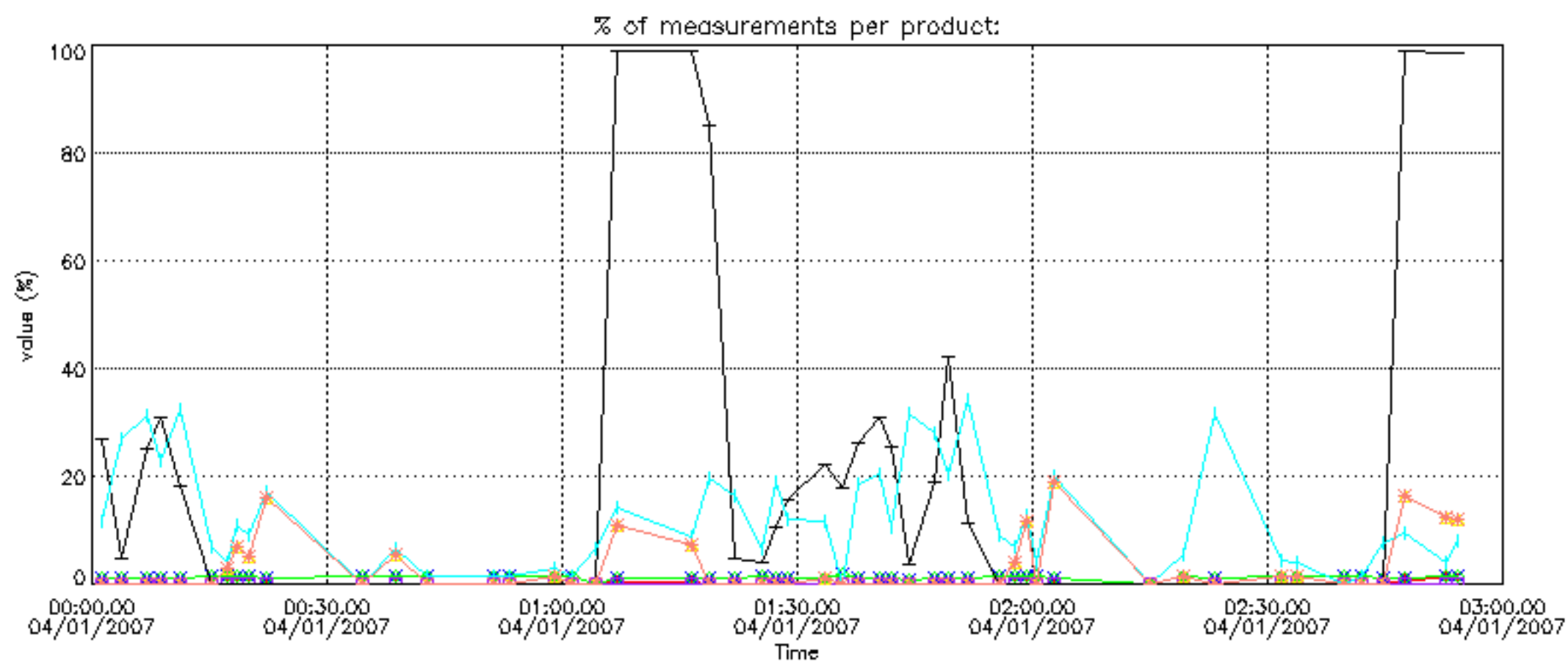
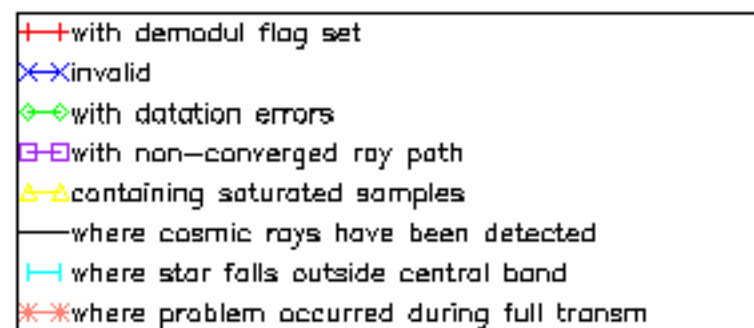
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JAN-2007 00:01:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20061222_110846_20061221_000000_20100101_000000	1	04-JAN-2007 00:01:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JAN-2007 00:01:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JAN-2007 00:01:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JAN-2007 00:01:21
ECMWF_FILE	AUX_ECF_AXNECM20070103_062501_20070103_210000_20070104_090000	1	04-JAN-2007 00:01:21
OPTIONAL_ECMWF_FILE	MISSING	1	04-JAN-2007 00:01:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070103_214145_000057382054_00229_25333_2499.N1	1	04-JAN-2007 00:01:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070103_232242_000057382054_00230_25334_2500.N1	19	04-JAN-2007 01:06:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070104_010339_000038252054_00231_25335_2501.N1	41	04-JAN-2007 02:19:21



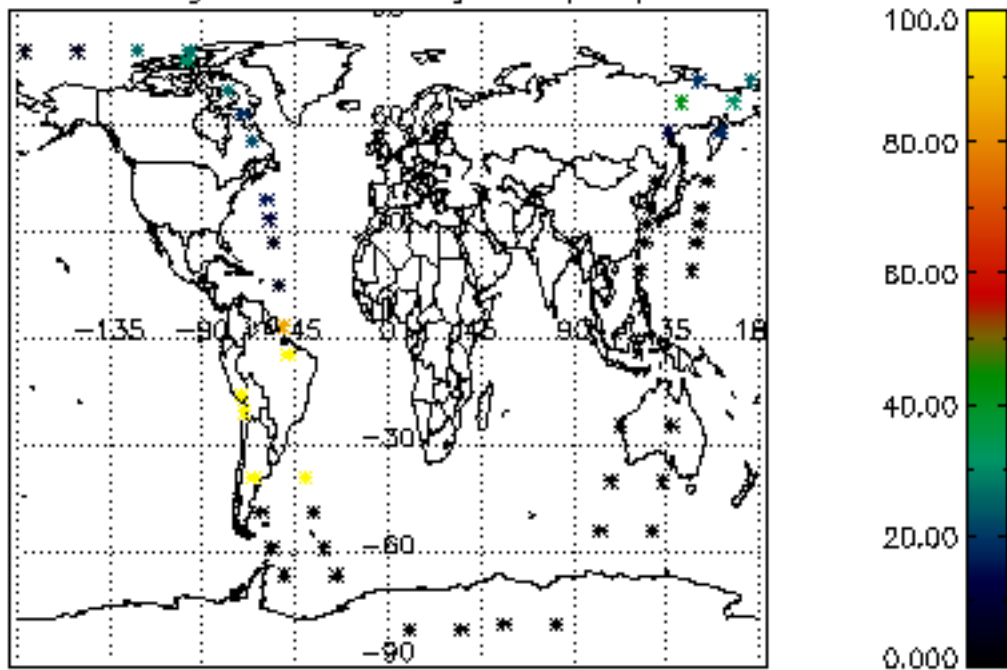




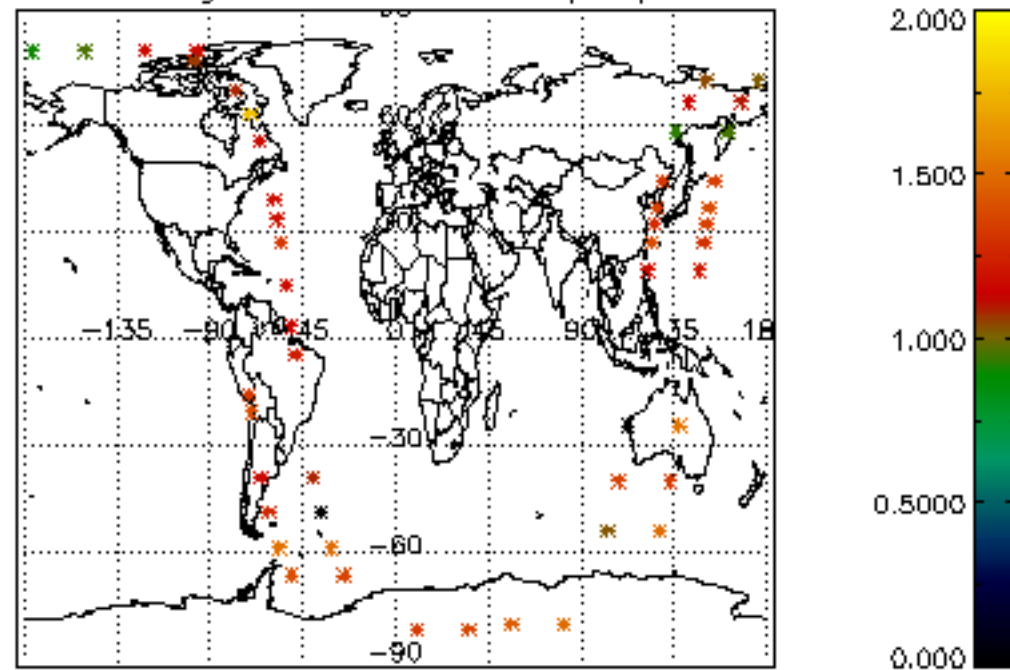




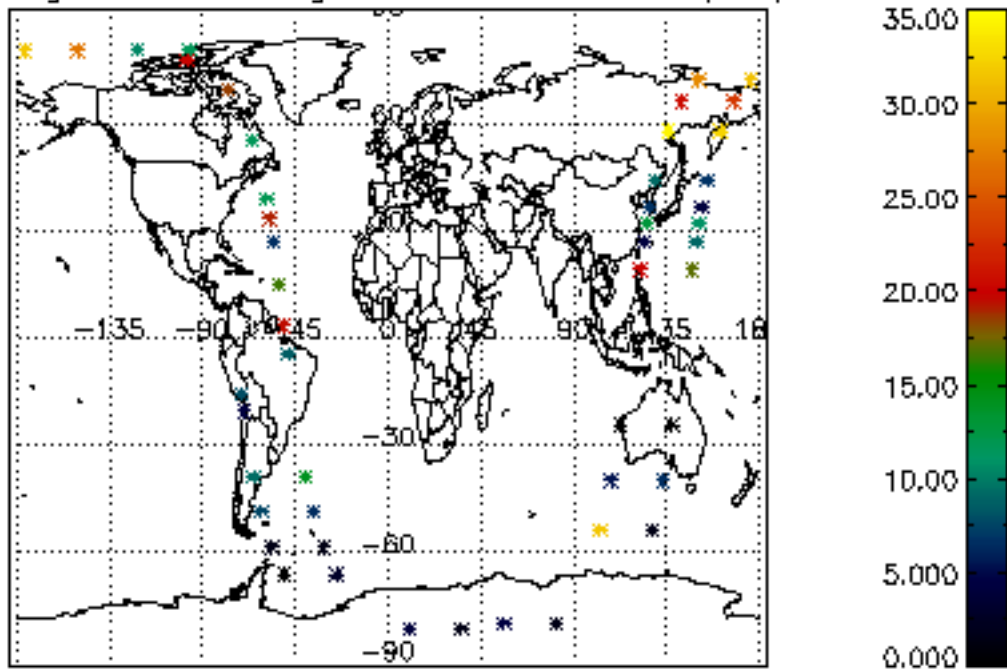
Percentage of cosmic ray hits per profile



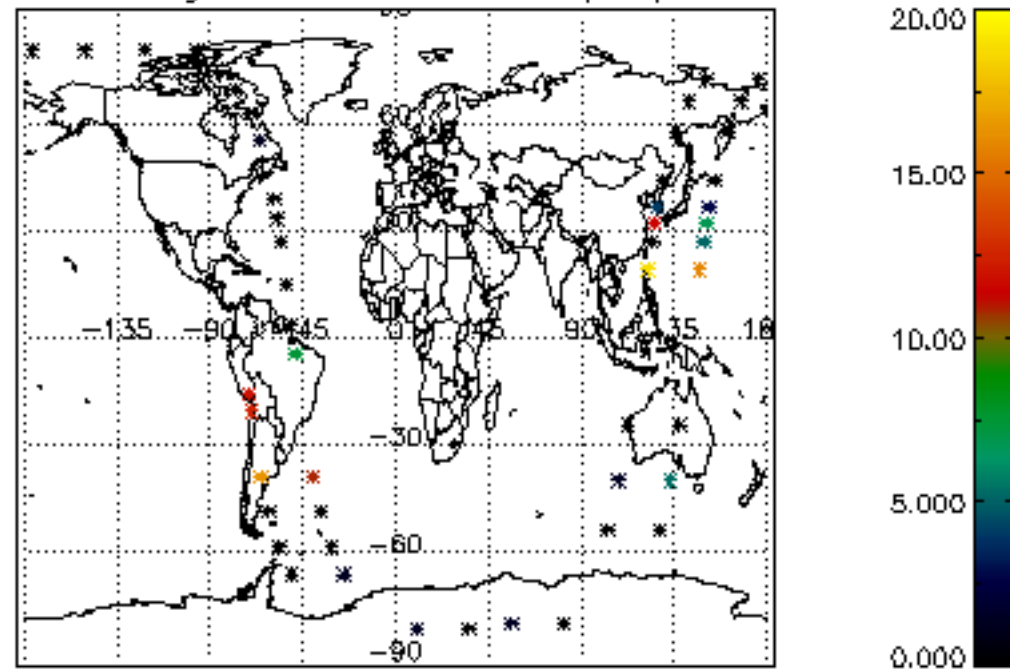
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

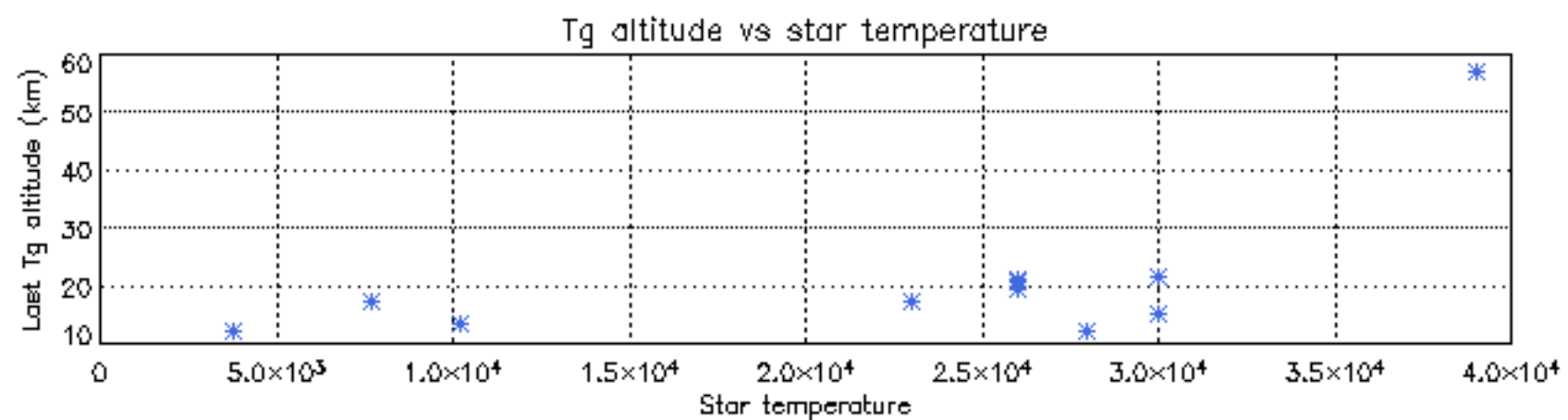
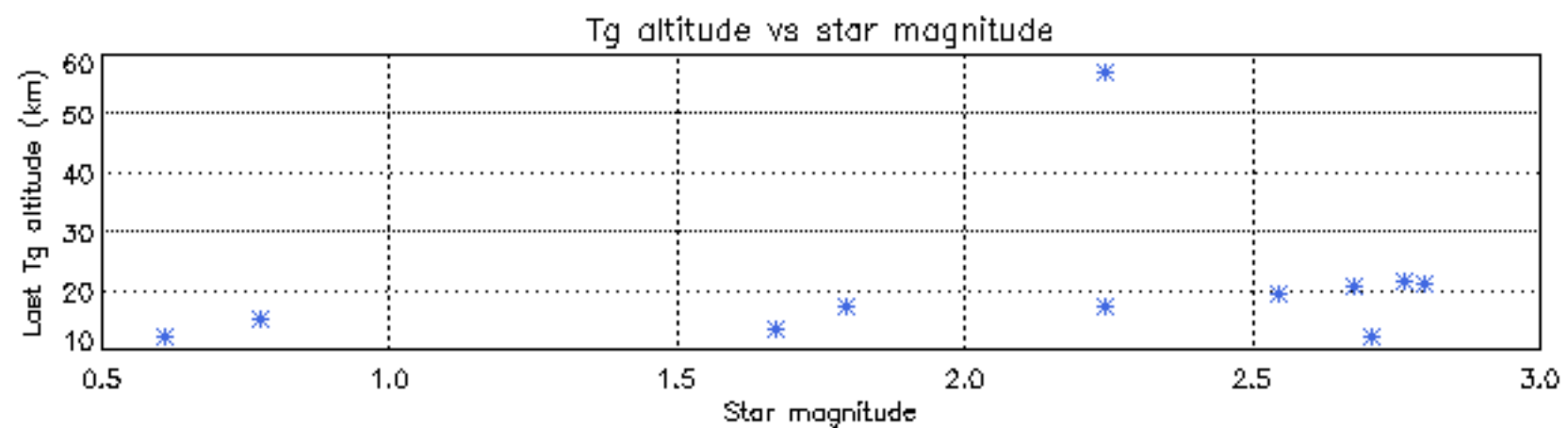
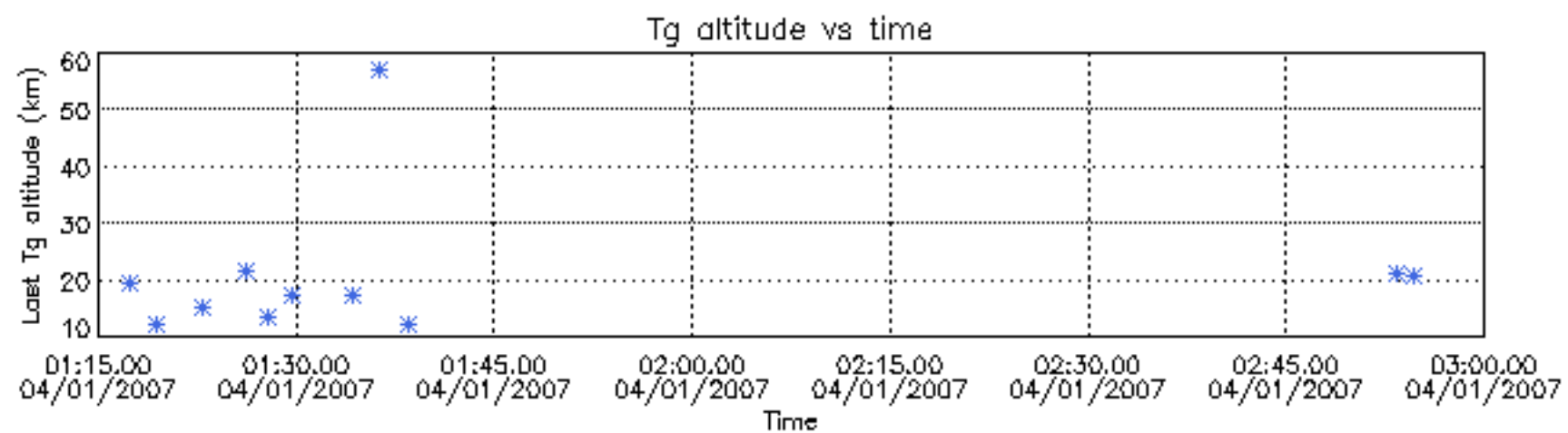


Percentage of saturation errors per profile

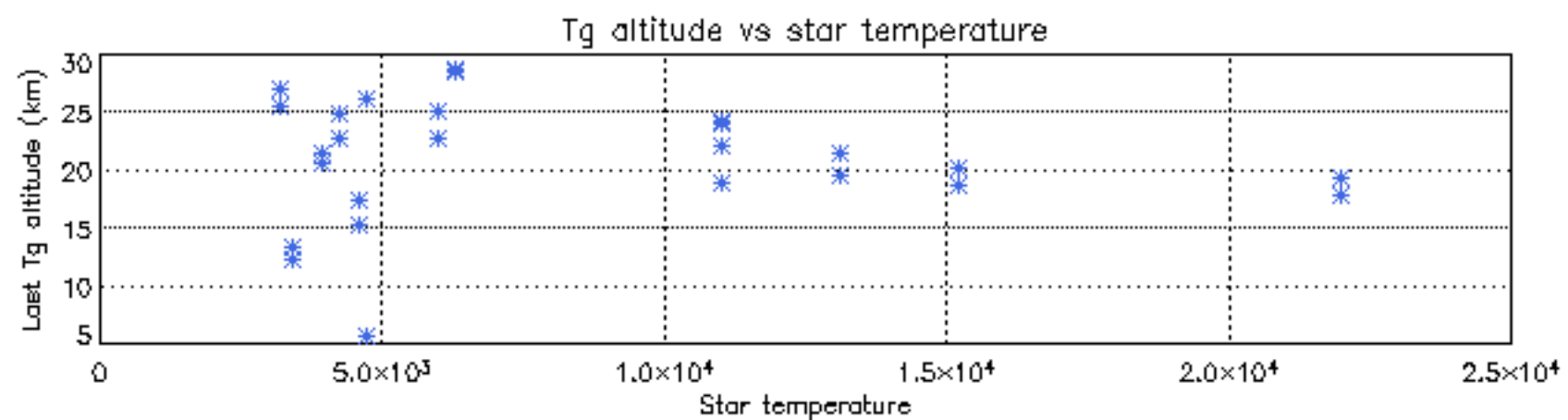
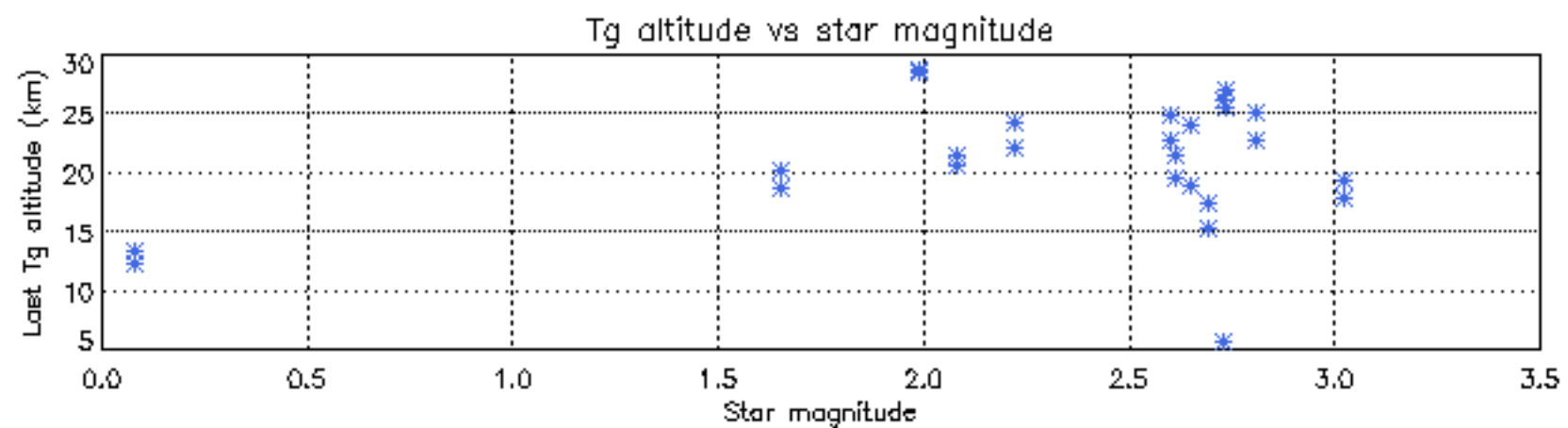
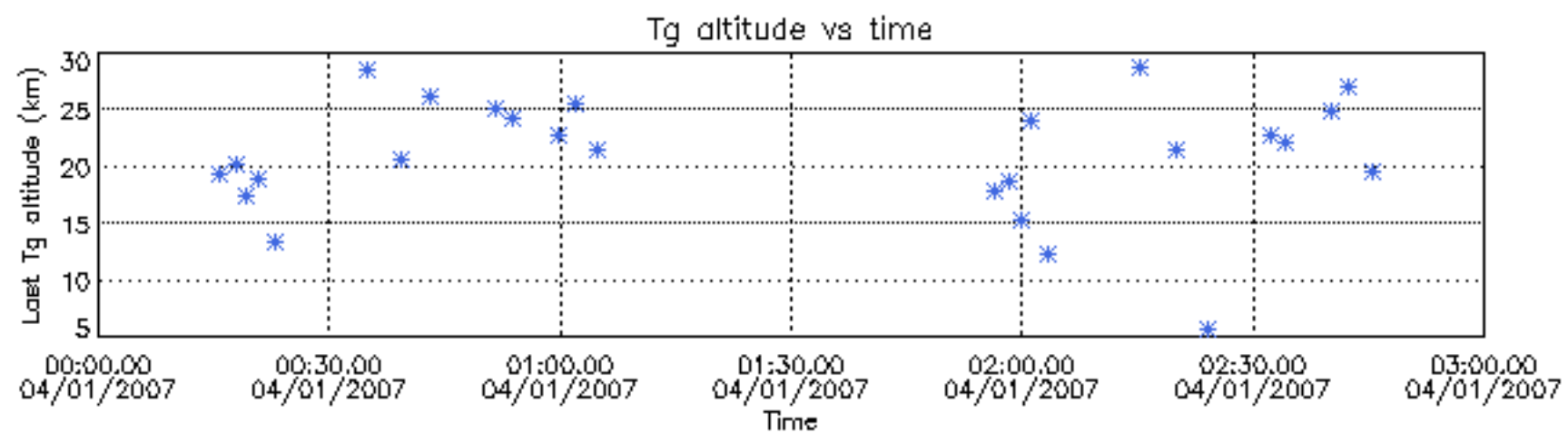


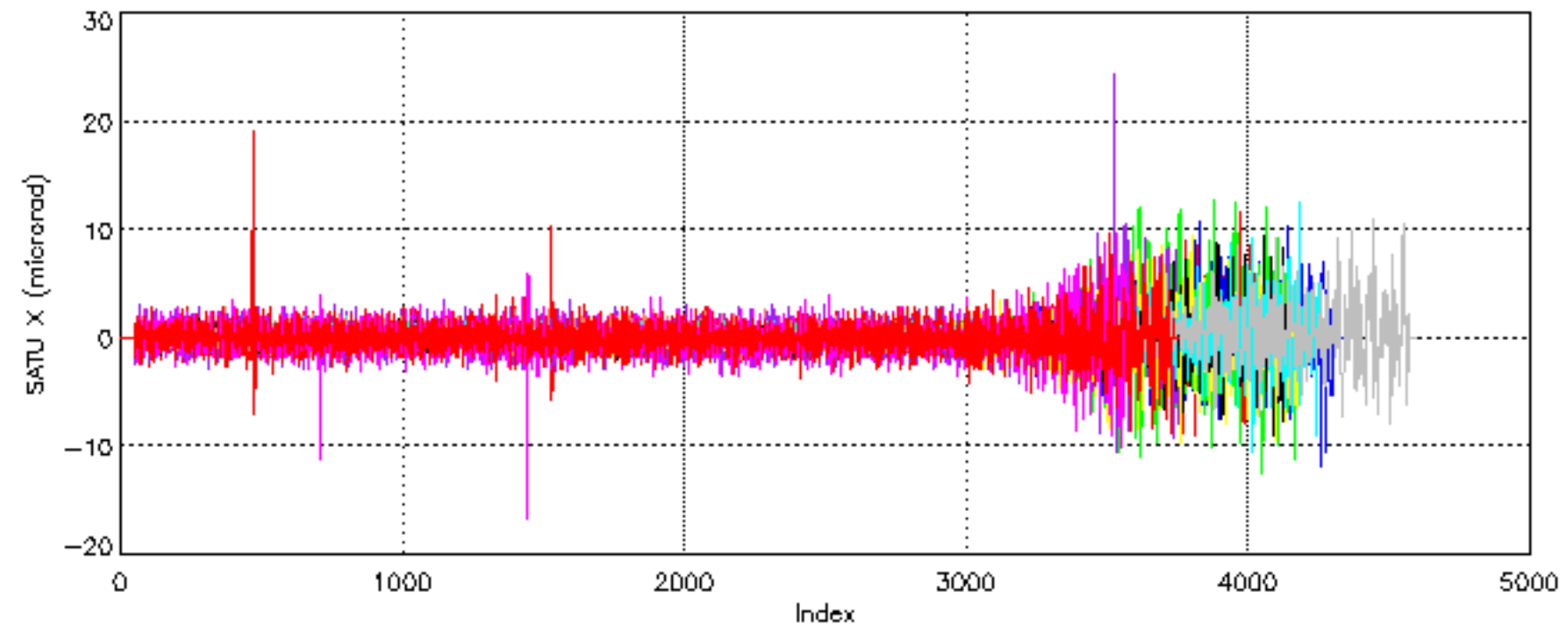


Tangent altitude at which the star is lost

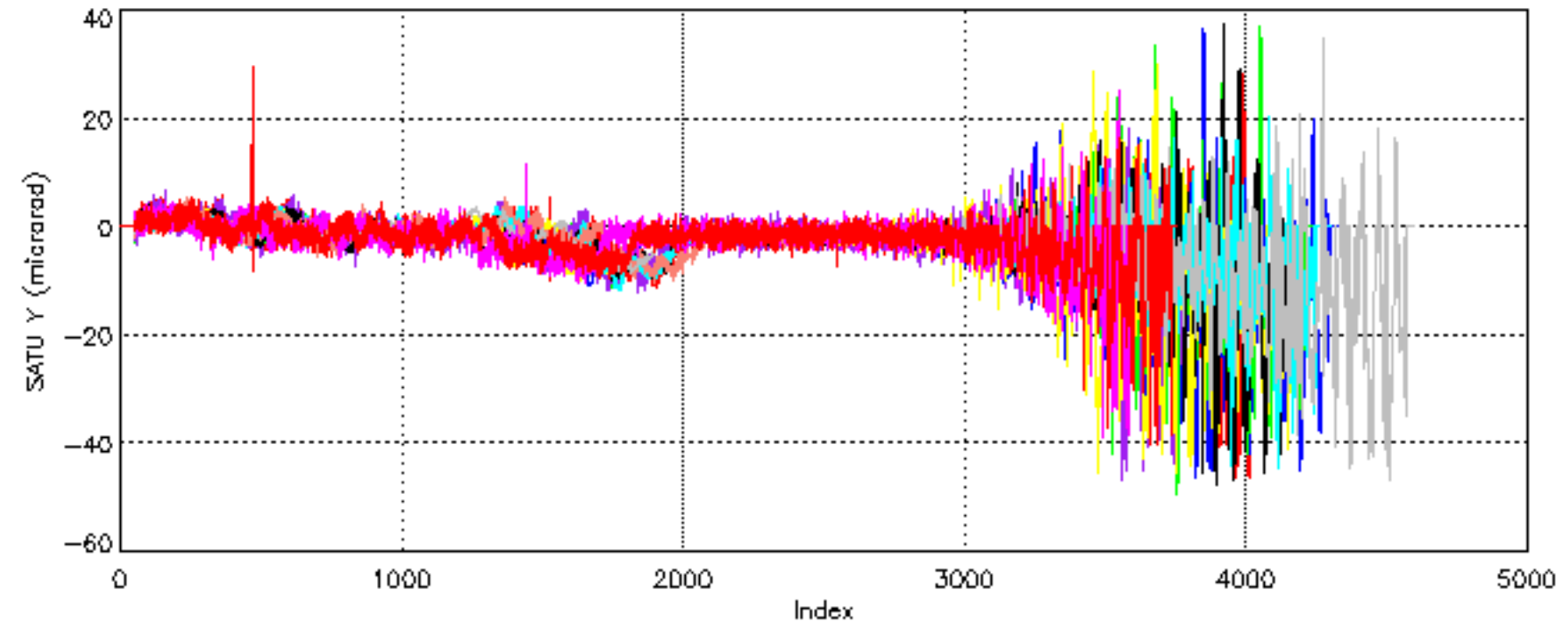


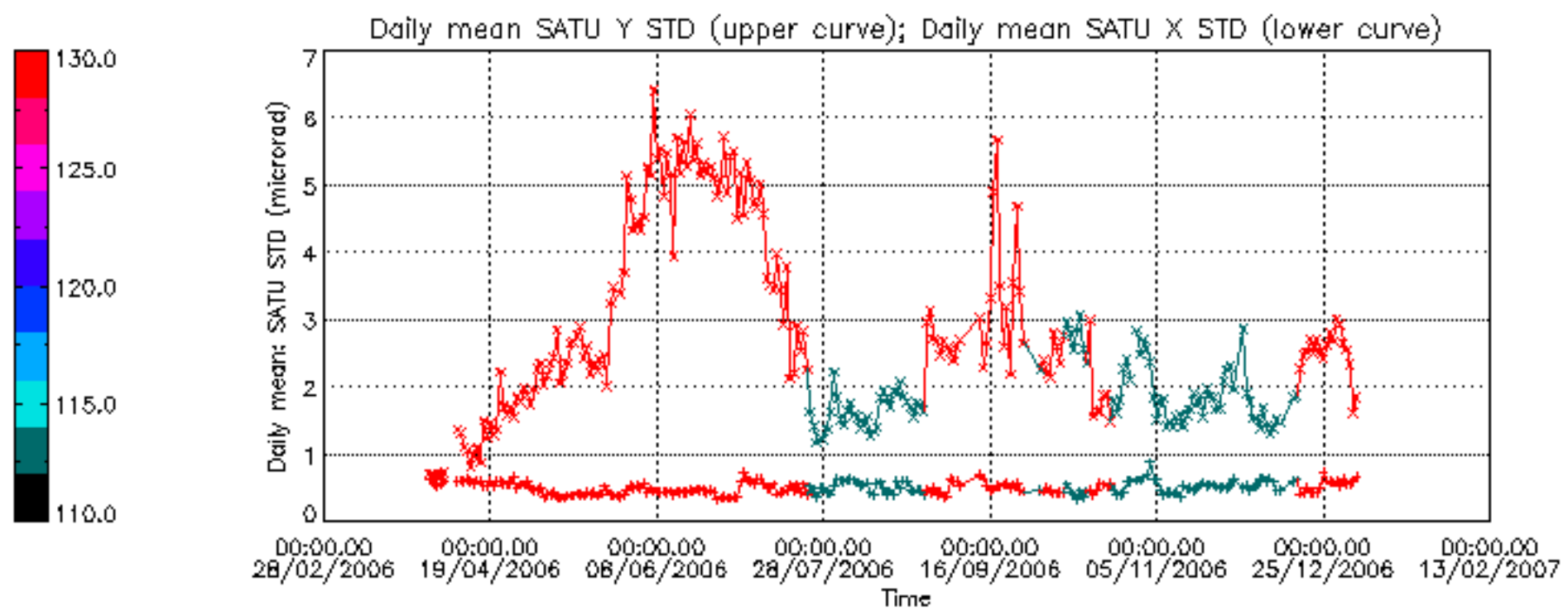
Tangent altitude at which the star is lost











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1; -684.5; 01-JAN-2007 01:00:46; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;25292  
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 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292  
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293  
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293  
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293  
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293  
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293  
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293  
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293  
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293  
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293  
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293  
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 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293  
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293  
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293  
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293  
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293  
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 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293  
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293  
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1; -2344.6; 01-JAN-2007 02:13:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25293  
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 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293  
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293  
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293  
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293  
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293  
 8; -104.3; 01-JAN-2007 02:51:02; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;25293  
 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294  
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294  
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294  
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294  
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294  
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294  
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294  
 16; 1172.1; 01-JAN-2007 03:12:18; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25294  
 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294  
 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294  
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294  
 20; 1881.5; 01-JAN-2007 03:24:08; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25294  
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 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294  
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294  
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1; -2344.7; 01-JAN-2007 03:54:17; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;25294  
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 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295  
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295  
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295  
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295  
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
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 13; 4422.7; 01-JAN-2007 12:29:29; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;25299  
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23; 1442.8; 04-JAN-2007 03:22:33; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;25337  
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33; 3423.6; 04-JAN-2007 03:55:34; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;25337

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4;-1482.0; 04-JAN-2007 04:14:25; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25337  
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 2; 1751.0; 12-JAN-2007 12:39:31; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25457  
 3; 1820.7; 12-JAN-2007 12:40:41; Dark ; 38.5; 125; 44Iot Ori ; 2.77; 30000;occ; 77; 0;25457  
 4; 1898.4; 12-JAN-2007 12:41:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25457  
 5; 2034.8; 12-JAN-2007 12:44:15; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25457  
 6; 2193.5; 12-JAN-2007 12:46:54; Dark ; 25.0; 44; 24Gam Gem ; 1.93; 11000;occ; 50; 0;25457  
 7; 2271.0; 12-JAN-2007 12:48:11; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25457  
 8; 2399.5; 12-JAN-2007 12:50:20; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25457  
 9; 2490.5; 12-JAN-2007 12:51:51; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25457  
 10; 2674.6; 12-JAN-2007 12:54:55; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25457  
 11; 3424.7; 12-JAN-2007 13:07:25; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25457  
 12; 3670.7; 12-JAN-2007 13:11:31; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25457  
 13; 3923.9; 12-JAN-2007 13:15:44; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;25457  
 14; 4072.5; 12-JAN-2007 13:18:13; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25457  
 15; 4447.1; 12-JAN-2007 13:24:27; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;25457  
 16; 4630.2; 12-JAN-2007 13:27:30; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;25457  
 17; 5079.8; 12-JAN-2007 13:35:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;25457  
 18; 5165.0; 12-JAN-2007 13:36:25; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25457  
 19; 5431.7; 12-JAN-2007 13:40:52; Dark ; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;25457  
 20; 5740.0; 12-JAN-2007 13:46:00; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25457  
 21; 5839.3; 12-JAN-2007 13:47:39; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25457  
 22; 5930.0; 12-JAN-2007 13:49:10; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25457  
 23; 6044.9; 12-JAN-2007 13:51:05; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457  
 24; 6148.2; 12-JAN-2007 13:52:48; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;25457  
 25; 6303.1; 12-JAN-2007 13:55:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457  
 26; 6549.5; 12-JAN-2007 13:59:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25457  
 27; 6639.2; 12-JAN-2007 14:00:59; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25457  
 28; 6748.3; 12-JAN-2007 14:02:48; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25457  
 29; 6827.7; 12-JAN-2007 14:04:08; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;25457  
 30; 7026.5; 12-JAN-2007 14:07:27; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;25457  
 31; 7156.0; 12-JAN-2007 14:09:36; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;25457  
 32; 7260.7; 12-JAN-2007 14:11:21; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25457  
 33; 7416.5; 12-JAN-2007 14:13:57; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;25457  
 34; 7502.8; 12-JAN-2007 14:15:23; Dark ; 4.5; 179; 240mi2CMA ; 3.03; 24000;occ; 9; 0;25457

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1; 1413.6; 12-JAN-2007 14:14:30; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 66;25458  
 2; 1467.0; 12-JAN-2007 14:15:23; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25458  
 3; 1602.7; 12-JAN-2007 14:17:39; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;25458  
 4; 1751.2; 12-JAN-2007 14:20:07; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25458  
 5; 1820.8; 12-JAN-2007 14:21:17; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25458  
 6; 1898.6; 12-JAN-2007 14:22:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;25458  
 7; 2035.0; 12-JAN-2007 14:24:51; Dark ; 10.5; 14; 58Alp Ori ; 0.87; 3000;occ; 21; 0;25458

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1; 2045.5; 12-JAN-2007 14:25:01; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 21;25458  
 2; 2193.5; 12-JAN-2007 14:27:30; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25458  
 3; 2271.1; 12-JAN-2007 14:28:47; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;25458

4; 2399.7; 12-JAN-2007 14:30:56; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25458  
5; 2490.6; 12-JAN-2007 14:32:27; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25458  
6; 2674.6; 12-JAN-2007 14:35:31; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25458  
7; 3424.7; 12-JAN-2007 14:48:01; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;25458  
8; 3670.7; 12-JAN-2007 14:52:07; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25458  
9; 3924.1; 12-JAN-2007 14:56:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25458  
10; 4072.7; 12-JAN-2007 14:58:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25458  
11; 4447.3; 12-JAN-2007 15:05:03; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;25458  
12; 4630.5; 12-JAN-2007 15:08:07; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25458  
13; 5080.2; 12-JAN-2007 15:15:36; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25458  
14; 5165.5; 12-JAN-2007 15:17:02; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;25458  
15; 5432.1; 12-JAN-2007 15:21:28; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;25458  
16; 5740.6; 12-JAN-2007 15:26:37; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25458  
17; 5840.0; 12-JAN-2007 15:28:16; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25458  
18; 5930.6; 12-JAN-2007 15:29:47; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25458  
19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458  
20; 6148.7; 12-JAN-2007 15:33:25; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;25458  
21; 6303.4; 12-JAN-2007 15:35:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25458  
22; 6549.9; 12-JAN-2007 15:40:06; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25458  
23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458  
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458  
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458  
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458  
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458  
28; 7261.0; 12-JAN-2007 15:51:57; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25458

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2; 1467.3; 12-JAN-2007 15:55:59; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25459  
3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;25459  
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459  
5; 1820.8; 12-JAN-2007 16:01:53; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25459  
6; 1898.7; 12-JAN-2007 16:03:11; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;25459  
7; 2035.0; 12-JAN-2007 16:05:27; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25459  
8; 2193.3; 12-JAN-2007 16:08:05; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25459  
9; 2271.2; 12-JAN-2007 16:09:23; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25459  
10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459  
11; 2490.8; 12-JAN-2007 16:13:03; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25459  
12; 2674.5; 12-JAN-2007 16:16:06; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25459  
13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459  
14; 3670.4; 12-JAN-2007 16:32:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25459  
15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459  
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459  
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459  
18; 4630.6; 12-JAN-2007 16:48:43; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25459  
19; 5080.6; 12-JAN-2007 16:56:13; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25459  
20; 5165.6; 12-JAN-2007 16:57:38; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25459  
21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459  
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459  
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459  
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459  
25; 6046.5; 12-JAN-2007 17:12:18; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;25459  
26; 6149.2; 12-JAN-2007 17:14:01; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;25459  
27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459  
28; 6550.5; 12-JAN-2007 17:20:42; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25459  
29; 6639.9; 12-JAN-2007 17:22:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25459  
30; 6749.4; 12-JAN-2007 17:24:01; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;25459  
31; 6828.4; 12-JAN-2007 17:25:20; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25459  
32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459  
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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2; 1225.4; 12-JAN-2007 17:32:33; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25460  
3; 1381.1; 12-JAN-2007 17:35:09; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25460  
4; 1467.5; 12-JAN-2007 17:36:35; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25460  
5; 1603.0; 12-JAN-2007 17:38:51; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;25460  
6; 1751.5; 12-JAN-2007 17:41:19; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;25460  
7; 1820.9; 12-JAN-2007 17:42:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25460  
8; 1898.8; 12-JAN-2007 17:43:47; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25460

9; 2035.1; 12-JAN-2007 17:46:03; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;25460  
10; 2193.2; 12-JAN-2007 17:48:41; Dark ; 43.5; 44; 24Gam Gem ; 1.93; 11000;occ; 87; 0;25460  
11; 2271.3; 12-JAN-2007 17:49:59; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25460  
12; 2399.9; 12-JAN-2007 17:52:08; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25460  
13; 2491.0; 12-JAN-2007 17:53:39; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25460  
14; 2674.3; 12-JAN-2007 17:56:42; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25460  
15; 3424.8; 12-JAN-2007 18:09:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25460  
16; 3670.2; 12-JAN-2007 18:13:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25460  
17; 3923.7; 12-JAN-2007 18:17:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;25460  
18; 4072.7; 12-JAN-2007 18:20:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;25460  
19; 4447.5; 12-JAN-2007 18:26:16; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25460  
20; 4630.8; 12-JAN-2007 18:29:19; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;25460  
21; 5080.9; 12-JAN-2007 18:36:49; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25460  
22; 5165.8; 12-JAN-2007 18:38:14; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;25460  
23; 5432.7; 12-JAN-2007 18:42:41; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;25460  
24; 5741.4; 12-JAN-2007 18:47:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25460  
25; 5841.2; 12-JAN-2007 18:49:29; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;25460  
26; 5931.8; 12-JAN-2007 18:51:00; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25460  
27; 6047.3; 12-JAN-2007 18:52:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25460  
28; 6149.6; 12-JAN-2007 18:54:38; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;25460  
29; 6304.0; 12-JAN-2007 18:57:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25460  
30; 6550.8; 12-JAN-2007 19:01:19; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25460  
31; 6640.3; 12-JAN-2007 19:02:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;25460  
32; 6749.7; 12-JAN-2007 19:04:38; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;25460  
33; 6828.7; 12-JAN-2007 19:05:57; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;25460

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2; 991.6; 12-JAN-2007 19:09:16; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;25461  
3; 1121.3; 12-JAN-2007 19:11:25; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25461  
4; 1225.6; 12-JAN-2007 19:13:10; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25461  
5; 1381.2; 12-JAN-2007 19:15:45; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;25461  
6; 1467.7; 12-JAN-2007 19:17:12; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;25461  
7; 1603.0; 12-JAN-2007 19:19:27; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;25461  
8; 1751.6; 12-JAN-2007 19:21:56; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25461  
9; 1821.2; 12-JAN-2007 19:23:05; Dark ; 36.5; 125; 44Iot Ori ; 2.77; 30000;occ; 73; 0;25461  
10; 1898.9; 12-JAN-2007 19:24:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25461  
11; 2035.1; 12-JAN-2007 19:26:39; Dark ; 45.5; 14; 58Alp Ori ; 0.87; 3000;occ; 91; 0;25461  
12; 2193.1; 12-JAN-2007 19:29:17; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;25461  
13; 2271.3; 12-JAN-2007 19:30:35; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;25461  
14; 2399.9; 12-JAN-2007 19:32:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25461  
15; 2491.2; 12-JAN-2007 19:34:15; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;25461  
16; 2674.2; 12-JAN-2007 19:37:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;25461  
17; 3424.7; 12-JAN-2007 19:49:49; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25461  
18; 3670.0; 12-JAN-2007 19:53:54; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;25461  
19; 3923.7; 12-JAN-2007 19:58:08; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;25461  
20; 4072.6; 12-JAN-2007 20:00:37; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;25461  
21; 4447.6; 12-JAN-2007 20:06:52; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;25461  
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22; 6791.1; 19-JAN-2007 08:41:35; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25554
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26; 7285.8; 19-JAN-2007 08:49:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;25554
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28; 7520.7; 19-JAN-2007 08:53:44; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;25554
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3;	1916.2;	19-JAN-2007	09:00:56;	Dark	;	42.5;	30;	46Eps Ori	;	1.69;	30000;occ;	85;	0;	25555
4;	2046.1;	19-JAN-2007	09:03:06;	Dark	;	46.5;	14;	58Alp Ori	;	0.87;	3000;occ;	93;	0;	25555
5;	2186.9;	19-JAN-2007	09:05:26;	Dark	;	53.0;	44;	24Gam Gem	;	1.93;	11000;occ;	106;	0;	25555
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7;	2414.3;	19-JAN-2007	09:09:14;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25555
8;	2542.0;	19-JAN-2007	09:11:21;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	25555
9;	2671.9;	19-JAN-2007	09:13:31;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	25555
10;	3425.7;	19-JAN-2007	09:26:05;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	25555
11;	4081.3;	19-JAN-2007	09:37:01;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25555
12;	4274.5;	19-JAN-2007	09:40:14;	Bright;		32.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	65;	0;	25555
13;	4752.4;	19-JAN-2007	09:48:12;	Bright;		33.5;	59;	55Alp Oph	;	2.08;	8900;occ;	67;	0;	25555
14;	4879.1;	19-JAN-2007	09:50:19;	Bright;		32.5;	126;	60Bet Oph	;	2.77;	4250;occ;	65;	0;	25555
15;	5200.4;	19-JAN-2007	09:55:40;	Bright;		39.0;	98;	13Zet Oph	;	2.57;	30000;occ;	78;	0;	25555
16;	5468.8;	19-JAN-2007	10:00:08;	Dark	;	49.5;	16;	21Alp Sco	;	1.02;	3000;occ;	99;	0;	25555
17;	5564.4;	19-JAN-2007	10:01:44;	Dark	;	44.0;	75;	26Eps Sco	;	2.29;	4250;occ;	88;	0;	25555
18;	5792.0;	19-JAN-2007	10:05:31;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	25555
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20;	6329.1;	19-JAN-2007	10:14:29;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25555
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3;	866.4;	19-JAN-2007	10:24:02;	Dark	;	41.0;	46;	Del Vel	;	1.95;	10600;occ;	82;	0;	25556
4;	1032.8;	19-JAN-2007	10:26:48;	Dark	;	51.5;	2;	Alp Car	;	-0.74;	7000;occ;	103;	0;	25556
5;	1154.5;	19-JAN-2007	10:28:50;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	25556
6;	1250.0;	19-JAN-2007	10:30:25;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	25556
7;	1400.7;	19-JAN-2007	10:32:56;	Dark	;	42.5;	23;	21Eps CMa	;	1.50;	26000;occ;	85;	0;	25556
8;	1485.1;	19-JAN-2007	10:34:20;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	25556
9;	1616.5;	19-JAN-2007	10:36:32;	Dark	;	51.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	102;	0;	25556
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2;	1838.9;	19-JAN-2007	10:40:14;	Dark	;	39.0;	125;	44Iot Ori	;	2.77;	30000;occ;	78;	0;	25556
3;	1916.4;	19-JAN-2007	10:41:32;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	25556
4;	2046.2;	19-JAN-2007	10:43:42;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	25556
5;	2186.9;	19-JAN-2007	10:46:02;	Dark	;	43.5;	44;	24Gam Gem	;	1.93;	11000;occ;	87;	0;	25556
6;	2291.4;	19-JAN-2007	10:47:47;	Bright;		39.0;	151;	13Mu Gem	;	2.89;	3000;occ;	78;	0;	25556
7;	2414.4;	19-JAN-2007	10:49:50;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25556
8;	2541.9;	19-JAN-2007	10:51:57;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	25556
9;	2672.0;	19-JAN-2007	10:54:07;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	25556
10;	3425.6;	19-JAN-2007	11:06:41;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	25556
11;	4081.2;	19-JAN-2007	11:17:37;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	25556
12;	4274.7;	19-JAN-2007	11:20:50;	Bright;		36.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	73;	0;	25556
13;	4752.6;	19-JAN-2007	11:28:48;	Bright;		33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	25556
14;	4879.4;	19-JAN-2007	11:30:55;	Bright;		32.5;	126;	60Bet Oph	;	2.77;	4250;occ;	65;	0;	25556
15;	5200.8;	19-JAN-2007	11:36:16;	Bright;		55.0;	98;	13Zet Oph	;	2.57;	30000;occ;	110;	0;	25556
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17;	5564.7;	19-JAN-2007	11:42:20;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	25556
18;	5792.5;	19-JAN-2007	11:46:08;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	25556
19;	6138.0;	19-JAN-2007	11:51:53;	Dark	;	45.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	91;	0;	25556
20;	6329.3;	19-JAN-2007	11:55:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	25556
21;	6669.7;	19-JAN-2007	12:00:45;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	25556
22;	6791.9;	19-JAN-2007	12:02:47;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	25556
23;	6902.6;	19-JAN-2007	12:04:38;	Dark	;	42.0;	46;	Del Vel	;	1.95;	10600;occ;	84;	0;	25556
24;	7068.9;	19-JAN-2007	12:07:24;	Dark	;	43.5;	2;	Alp Car	;	-0.74;	7000;occ;	87;	0;	25556
25;	7190.7;	19-JAN-2007	12:09:26;	Dark	;	42.0;	70;	Zet Pup	;	2.25;	39000;occ;	84;	0;	25556
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27;	7436.8;	19-JAN-2007	12:13:32;	Dark	;	40.5;	23;	21Eps CMa	;	1.50;	26000;occ;	81;	0;	25556
28;	7521.0;	19-JAN-2007	12:14:56;	Dark	;	39.5;	179;	240mi2CMa	;	3.03;	24000;occ;	79;	0;	25556
29;	7652.5;	19-JAN-2007	12:17:08;	Dark	;	31.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	62;	0;	25556

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3;	1839.1;	19-JAN-2007	12:20:50;	Dark	;	39.5;	125;	44Iot Ori	;	2.77;	30000;occ;	79;	0;	25557
4;	1916.5;	19-JAN-2007	12:22:08;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	25557



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 28; 4907.2; 27-JAN-2007 22:23:49; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;25677

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27; 7311.8; 27-JAN-2007 16:21:30; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;25673

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 18; 5870.5; 27-JAN-2007 17:38:05; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;25674  
 19; 6104.6; 27-JAN-2007 17:41:59; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;25674  
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24; 3427.4; 29-JAN-2007 22:36:32; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;25706
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23; 6952.2; 29-JAN-2007 08:29:53; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;25697  
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24; 6502.6; 31-JAN-2007 17:22:45; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25731
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26; 6857.5; 31-JAN-2007 17:28:40; Dark ; 36.5; 71; Iot Car ; 2.25; 7700;occ; 73; 0;25731
27; 6962.6; 31-JAN-2007 17:30:25; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;25731
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6; 1644.8; 31-JAN-2007 17:42:24; Dark ; 41.5; 1; 9Alp CMA ; -1.44; 11000;occ; 83; 0;25732
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