

# GOMOS Daily Report 16-DEC-2007

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 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	18DEC2007 06:07:37
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (16DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	51
Nb of prods with errors	0

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

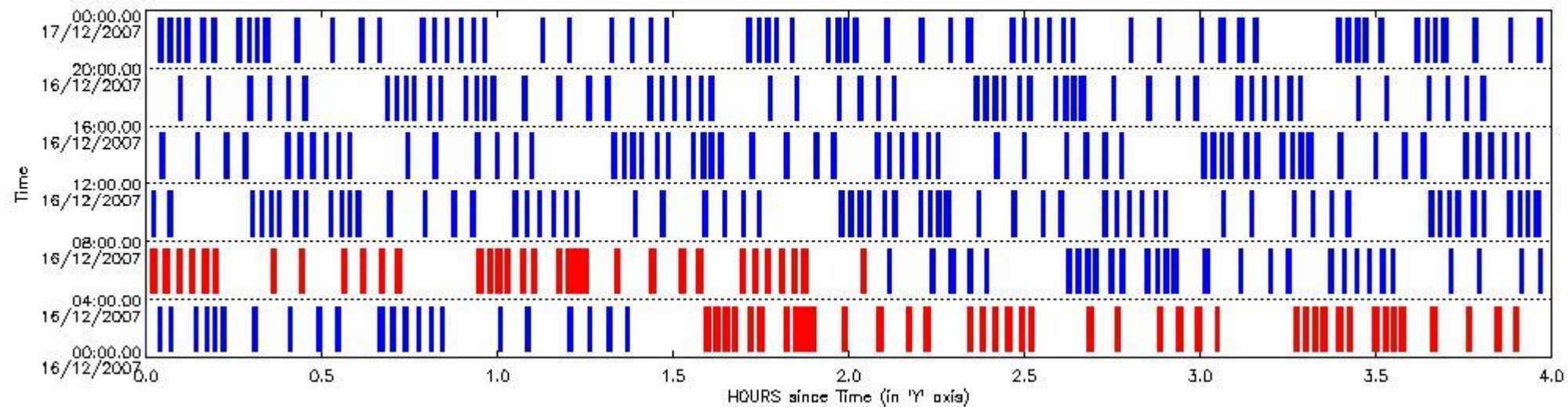
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
16-DEC-2007 01:35:17	46GamHya	169	30288
16-DEC-2007 01:36:58	5TheCen	54	30288
16-DEC-2007 01:38:30	lotCen	123	30288
16-DEC-2007 01:39:59	ZetCen	95	30288
16-DEC-2007 01:42:37	GamCen	64	30288
16-DEC-2007 01:44:29	BetCru	20	30289
16-DEC-2007 01:48:48	TheCar	124	30289
16-DEC-2007 01:50:33	UpsCar	159	30289
16-DEC-2007 01:51:54	lotCar	71	30289
16-DEC-2007 01:53:15	DSA1030	0	30289
16-DEC-2007 01:58:43	AlpCar	2	30289
16-DEC-2007 02:04:45	AlpCol	108	30289
16-DEC-2007 02:09:45	11AlpLep	101	30289
16-DEC-2007 02:12:50	19BetOri	7	30289
16-DEC-2007 02:20:12	87AlpTau	13	30289

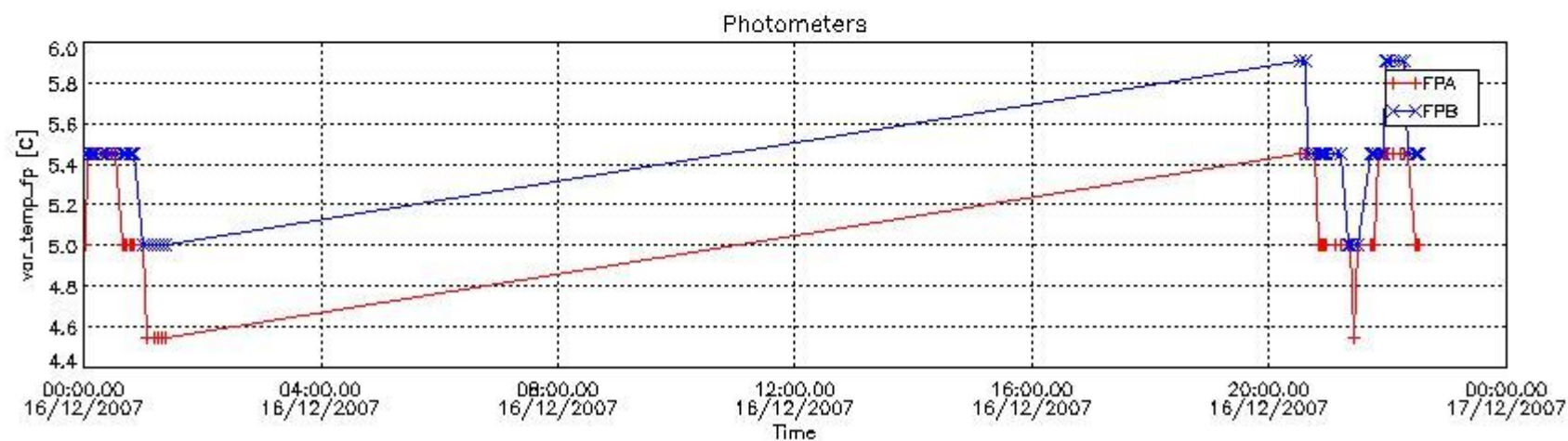
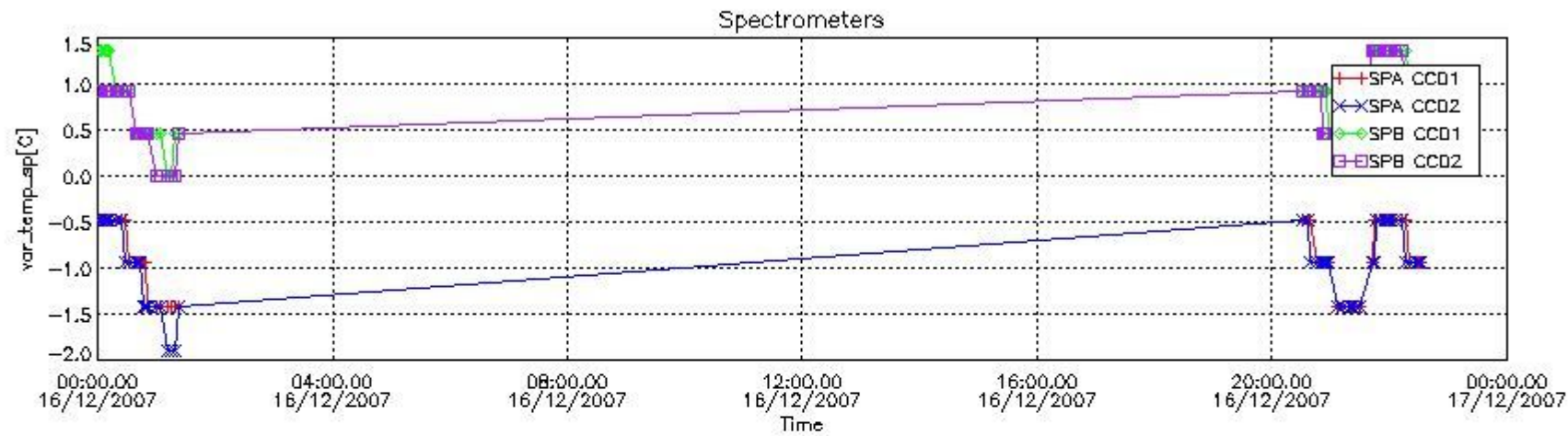
16-DEC-2007 02:22:21	25EtaTau	146	30289
16-DEC-2007 02:24:31	44ZetPer	150	30289
16-DEC-2007 02:26:49	45EpsPer	149	30289
16-DEC-2007 02:29:00	39DelPer	175	30289
16-DEC-2007 02:30:46	23GamPer	160	30289
16-DEC-2007 02:40:43	1AlpUMi	49	30289
16-DEC-2007 02:45:26	7BetUMi	60	30289
16-DEC-2007 02:52:38	85EtaUMa	39	30289
16-DEC-2007 02:55:58	27GamBoo	180	30289
16-DEC-2007 02:59:10		83	30289
16-DEC-2007 03:02:29	8EtaBoo	111	30289
16-DEC-2007 03:15:53	46GamHya	169	30289
16-DEC-2007 03:17:34	5TheCen	54	30289
16-DEC-2007 03:19:07	lotCen	123	30289
16-DEC-2007 03:20:35	ZetCen	95	30289
16-DEC-2007 03:23:14	GamCen	64	30289
16-DEC-2007 03:25:06	BetCru	20	30290
16-DEC-2007 03:29:25	TheCar	124	30290
16-DEC-2007 03:31:10	UpsCar	159	30290
16-DEC-2007 03:32:30	lotCar	71	30290
16-DEC-2007 03:33:52	DSA1030	0	30290
16-DEC-2007 03:39:19	AlpCar	2	30290
16-DEC-2007 03:45:21	AlpCol	108	30290
16-DEC-2007 03:50:21	11AlpLep	101	30290
16-DEC-2007 03:53:26	19BetOri	7	30290
16-DEC-2007 04:00:47	87AlpTau	13	30290
16-DEC-2007 04:02:57	25EtaTau	146	30290
16-DEC-2007 04:05:07	44ZetPer	150	30290
16-DEC-2007 04:07:25	45EpsPer	149	30290
16-DEC-2007 04:09:36	39DelPer	175	30290
16-DEC-2007 04:11:22	23GamPer	160	30290
16-DEC-2007 04:21:19	1AlpUMi	49	30290
16-DEC-2007 04:26:01	7BetUMi	60	30290
16-DEC-2007 04:33:14	85EtaUMa	39	30290
16-DEC-2007 04:36:34	27GamBoo	180	30290
16-DEC-2007 04:39:47		83	30290
16-DEC-2007 04:42:29	16AlpBoo	3	30290
16-DEC-2007 04:56:30	46GamHya	169	30290
16-DEC-2007 04:58:11	5TheCen	54	30290
16-DEC-2007 04:59:44	lotCen	123	30290
16-DEC-2007 05:01:12	ZetCen	95	30290
16-DEC-2007 05:03:51	GamCen	64	30290
16-DEC-2007 05:05:42	BetCru	20	30291
16-DEC-2007 05:10:01	TheCar	124	30291
16-DEC-2007 05:11:46	UpsCar	159	30291
16-DEC-2007 05:13:07	lotCar	71	30291
16-DEC-2007 05:14:29	DSA1030	0	30291
16-DEC-2007 05:19:55	AlpCar	2	30291
16-DEC-2007 05:25:57	AlpCol	108	30291
16-DEC-2007 05:30:57	11AlpLep	101	30291
16-DEC-2007 05:34:02	19BetOri	7	30291
16-DEC-2007 05:41:23	87AlpTau	13	30291
16-DEC-2007 05:43:33	25EtaTau	146	30291
16-DEC-2007 05:45:43	44ZetPer	150	30291
16-DEC-2007 05:48:01	45EpsPer	149	30291
16-DEC-2007 05:50:12	39DelPer	175	30291
16-DEC-2007 05:51:58	23GamPer	160	30291
16-DEC-2007 06:01:55	1AlpUMi	49	30291

## 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_1PNPDE20071216_000201_000000402064_00173_30287_8263.N1	16-DEC-2007 00:02:01	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30287	No
2	GOM_TRA_1PNPDE20071216_000353_000000392064_00174_30288_8264.N1	16-DEC-2007 00:03:53	Dark	39.000	20	Bet Cru	1.2530	30000.	78	30288	No
3	GOM_TRA_1PNPDE20071216_000812_000000382064_00174_30288_8265.N1	16-DEC-2007 00:08:12	Dark	38.000	124	The Car	2.7640	30000.	76	30288	No
4	GOM_TRA_1PNPDE20071216_000957_000000392064_00174_30288_8266.N1	16-DEC-2007 00:09:57	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30288	No
5	GOM_TRA_1PNPDE20071216_001117_000000412064_00174_30288_8267.N1	16-DEC-2007 00:11:17	Dark	41.000	71	lot Car	2.2460	7700.0	82	30288	No
6	GOM_TRA_1PNPDE20071216_001807_000000492064_00174_30288_8268.N1	16-DEC-2007 00:18:07	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	30288	No
7	GOM_TRA_1PNPDE20071216_002409_000000422064_00174_30288_8269.N1	16-DEC-2007 00:24:09	Straylight	42.000	108	Alp Col	2.6520	15200.	84	30288	No
8	GOM_TRA_1PNPDE20071216_002909_000000462064_00174_30288_8270.N1	16-DEC-2007 00:29:09	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	30288	No
9	GOM_TRA_1PNPDE20071216_003215_000000492064_00174_30288_8271.N1	16-DEC-2007 00:32:15	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30288	No
10	GOM_TRA_1PNPDE20071216_003936_000000542064_00174_30288_8272.N1	16-DEC-2007 00:39:36	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30288	No
11	GOM_TRA_1PNPDE20071216_004146_000000362064_00174_30288_8273.N1	16-DEC-2007 00:41:46	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30288	No
12	GOM_TRA_1PNPDE20071216_004356_000000352064_00174_30288_8274.N1	16-DEC-2007 00:43:56	Bright	34.500	150	44Zet Per	2.8900	28000.	69	30288	No
13	GOM_TRA_1PNPDE20071216_004613_000000352064_00174_30288_8275.N1	16-DEC-2007 00:46:13	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30288	No
14	GOM_TRA_1PNPDE20071216_004825_000000342064_00174_30288_8276.N1	16-DEC-2007 00:48:25	Bright	33.500	175	39Del Per	3.0100	19400.	67	30288	No
15	GOM_TRA_1PNPDE20071216_005010_000000342064_00174_30288_8277.N1	16-DEC-2007 00:50:10	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	30288	No
16	GOM_TRA_1PNPDE20071216_010007_000000332064_00174_30288_8278.N1	16-DEC-2007 01:00:07	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30288	No
17	GOM_TRA_1PNPDE20071216_010450_000000352064_00174_30288_8279.N1	16-DEC-2007 01:04:50	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	30288	No
18	GOM_TRA_1PNPDE20071216_011203_000000392064_00174_30288_8280.N1	16-DEC-2007 01:12:03	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	30288	No
19	GOM_TRA_1PNPDE20071216_011523_000000352064_00174_30288_8281.N1	16-DEC-2007 01:15:23	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30288	No
20	GOM_TRA_1PNPDE20071216_011835_000000542064_00174_30288_8282.N1	16-DEC-2007 01:18:35	Bright	54.000	83		2.3780	11000.	108	30288	No
21	GOM_TRA_1PNPDE20071216_012153_000000372064_00174_30288_8283.N1	16-DEC-2007 01:21:53	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	30288	No
22	GOM_TRA_1PNPDE20071216_203124_000000412064_00186_30300_8563.N1	16-DEC-2007 20:31:24	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30300	No
23	GOM_TRA_1PNPDE20071216_203622_000000402064_00186_30300_8564.N1	16-DEC-2007 20:36:22	Straylight	39.500	101	11Alp Lep	2.5820	7000.0	79	30300	No
24	GOM_TRA_1PNPDE20071216_203927_000000462064_00186_30300_8565.N1	16-DEC-2007 20:39:27	Straylight	46.000	7	19Bet Ori	0.10000	14000.	92	30300	No
25	GOM_TRA_1PNPDE20071216_204647_000000542064_00186_30300_8566.N1	16-DEC-2007 20:46:47	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30300	No
26	GOM_TRA_1PNPDE20071216_204858_000000342064_00186_30300_8567.N1	16-DEC-2007 20:48:58	Bright	34.000	146	25Eta Tau	2.8730	15200.	68	30300	No
27	GOM_TRA_1PNPDE20071216_205107_000000362064_00186_30300_8568.N1	16-DEC-2007 20:51:07	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30300	No
28	GOM_TRA_1PNPDE20071216_205325_000000352064_00186_30300_8569.N1	16-DEC-2007 20:53:25	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30300	No
29	GOM_TRA_1PNPDE20071216_205537_000000342064_00186_30300_8570.N1	16-DEC-2007 20:55:37	Bright	33.500	175	39Del Per	3.0100	19400.	67	30300	No
30	GOM_TRA_1PNPDE20071216_205723_000000362064_00186_30300_8571.N1	16-DEC-2007 20:57:23	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	30300	No
31	GOM_TRA_1PNPDE20071216_210719_000000372064_00186_30300_8572.N1	16-DEC-2007 21:07:19	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30300	No
32	GOM_TRA_1PNPDE20071216_211201_000000362064_00186_30300_8573.N1	16-DEC-2007 21:12:01	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30300	No
33	GOM_TRA_1PNPDE20071216_211913_000000382064_00186_30300_8574.N1	16-DEC-2007 21:19:13	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30300	No
34	GOM_TRA_1PNPDE20071216_212235_000000372064_00186_30300_8575.N1	16-DEC-2007 21:22:35	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	30300	No
35	GOM_TRA_1PNPDE20071216_212548_000000362064_00186_30300_8576.N1	16-DEC-2007 21:25:48	Bright	36.000	83		2.3780	11000.	72	30300	No
36	GOM_TRA_1PNPDE20071216_212832_000000392064_00186_30300_8577.N1	16-DEC-2007 21:28:32	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	30300	No
37	GOM_TRA_1PNPDE20071216_214237_000000472064_00186_30300_8809.N1	16-DEC-2007 21:42:37	Dark	46.500	169	46Gam Hya	2.9910	4700.0	93	30300	No
38	GOM_TRA_1PNPDE20071216_214415_000000422064_00186_30300_8810.N1	16-DEC-2007 21:44:15	Dark	41.500	54	5The Cen	2.0550	4500.0	83	30300	No
39	GOM_TRA_1PNPDE20071216_214550_000000402064_00186_30300_8811.N1	16-DEC-2007 21:45:50	Dark	40.000	123	lot Cen	2.7500	10200.	80	30300	No
40	GOM_TRA_1PNPDE20071216_214715_000000382064_00186_30300_8812.N1	16-DEC-2007 21:47:15	Dark	37.500	95	Zet Cen	2.5450	26000.	75	30300	No
41	GOM_TRA_1PNPDE20071216_214957_000000402064_00186_30300_8813.N1	16-DEC-2007 21:49:57	Dark	40.000	64	Gam Cen	2.2000	10600.	80	30300	No
42	GOM_TRA_1PNPDE20071216_215606_000000382064_00187_30301_8814.N1	16-DEC-2007 21:56:06	Dark	37.500	124	The Car	2.7640	30000.	75	30301	No
43	GOM_TRA_1PNPDE20071216_215751_000000382064_00187_30301_8815.N1	16-DEC-2007 21:57:51	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30301	No
44	GOM_TRA_1PNPDE20071216_215913_000000422064_00187_30301_8816.N1	16-DEC-2007 21:59:13	Dark	42.000	71	lot Car	2.2460	7700.0	84	30301	No
45	GOM_TRA_1PNPDE20071216_220559_000000552064_00187_30301_8817.N1	16-DEC-2007 22:05:59	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	30301	No
46	GOM_TRA_1PNPDE20071216_221200_000000412064_00187_30301_8818.N1	16-DEC-2007 22:12:00	Straylight	41.000	108	Alp Col	2.6520	15200.	82	30301	No
47	GOM_TRA_1PNPDE20071216_221658_000000422064_00187_30301_8819.N1	16-DEC-2007 22:16:58	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30301	No
48	GOM_TRA_1PNPDE20071216_222002_000000562064_00187_30301_8820.N1	16-DEC-2007 22:20:02	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	30301	No
49	GOM_TRA_1PNPDE20071216_222722_000000542064_00187_30301_8821.N1	16-DEC-2007 22:27:22	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	30301	No
50	GOM_TRA_1PNPDE20071216_222934_000000352064_00187_30301_8822.N1	16-DEC-2007 22:29:34	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30301	No
51	GOM_TRA_1PNPDE20071216_223143_000000342064_00187_30301_8823.N1	16-DEC-2007 22:31:43	Bright	34.000	150	44Zet Per	2.8900	28000.	68	30301	No

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





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

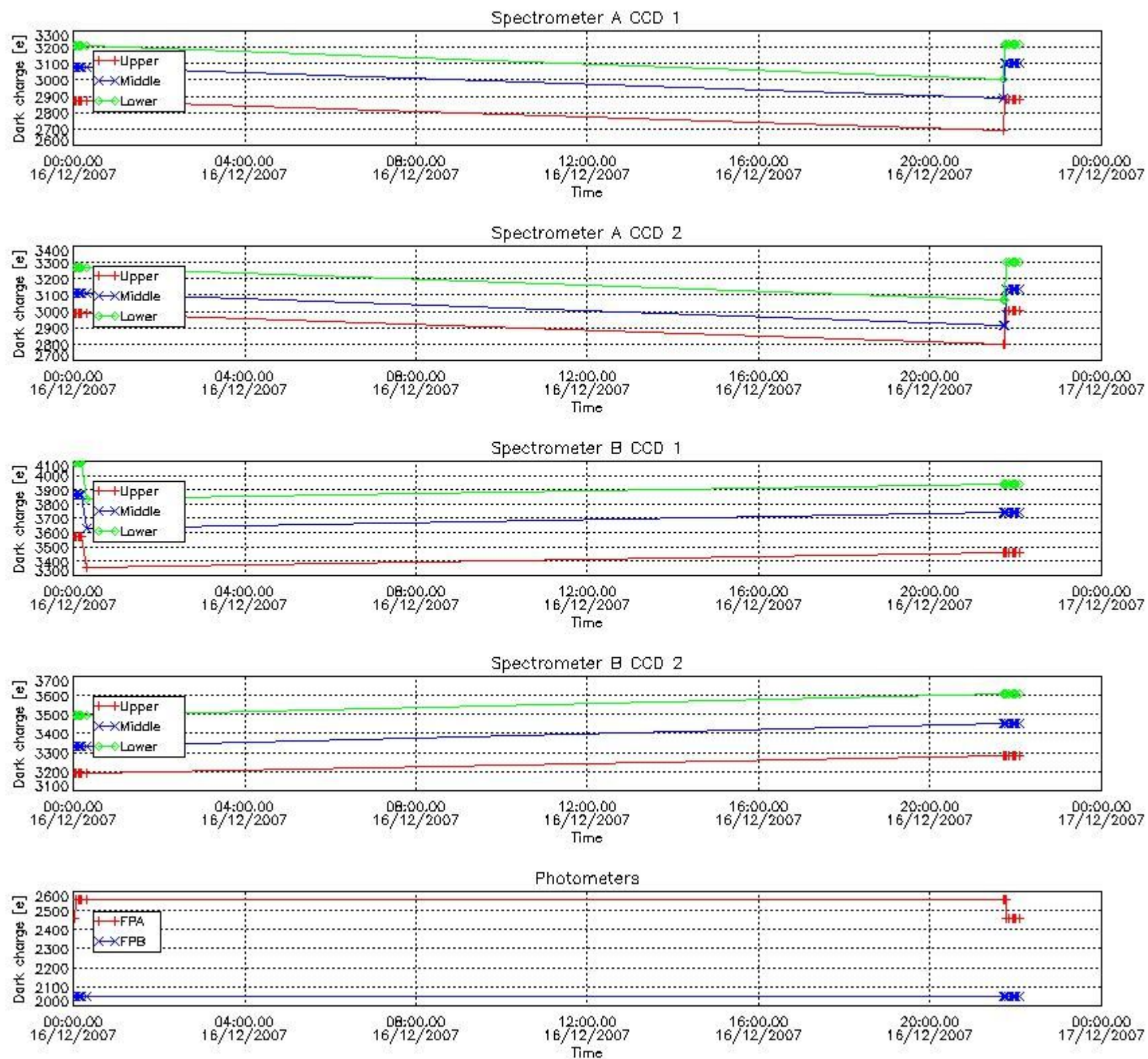
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20071216_203124_000000412064_00186_30300_8563.N1	DC map used
GOM_TRA_1PNPDE20071216_203622_000000402064_00186_30300_8564.N1	DC map used
GOM_TRA_1PNPDE20071216_203927_000000462064_00186_30300_8565.N1	DC map used
GOM_TRA_1PNPDE20071216_204647_000000542064_00186_30300_8566.N1	DC map used
GOM_TRA_1PNPDE20071216_204858_000000342064_00186_30300_8567.N1	DC map used
GOM_TRA_1PNPDE20071216_205107_000000362064_00186_30300_8568.N1	DC map used
GOM_TRA_1PNPDE20071216_205325_000000352064_00186_30300_8569.N1	DC map used
GOM_TRA_1PNPDE20071216_205537_000000342064_00186_30300_8570.N1	DC map used
GOM_TRA_1PNPDE20071216_205723_000000362064_00186_30300_8571.N1	DC map used
GOM_TRA_1PNPDE20071216_210719_000000372064_00186_30300_8572.N1	DC map used
GOM_TRA_1PNPDE20071216_211201_000000362064_00186_30300_8573.N1	DC map used
GOM_TRA_1PNPDE20071216_211913_000000382064_00186_30300_8574.N1	DC map used
GOM_TRA_1PNPDE20071216_212235_000000372064_00186_30300_8575.N1	DC map used
GOM_TRA_1PNPDE20071216_212548_000000362064_00186_30300_8576.N1	DC map used

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



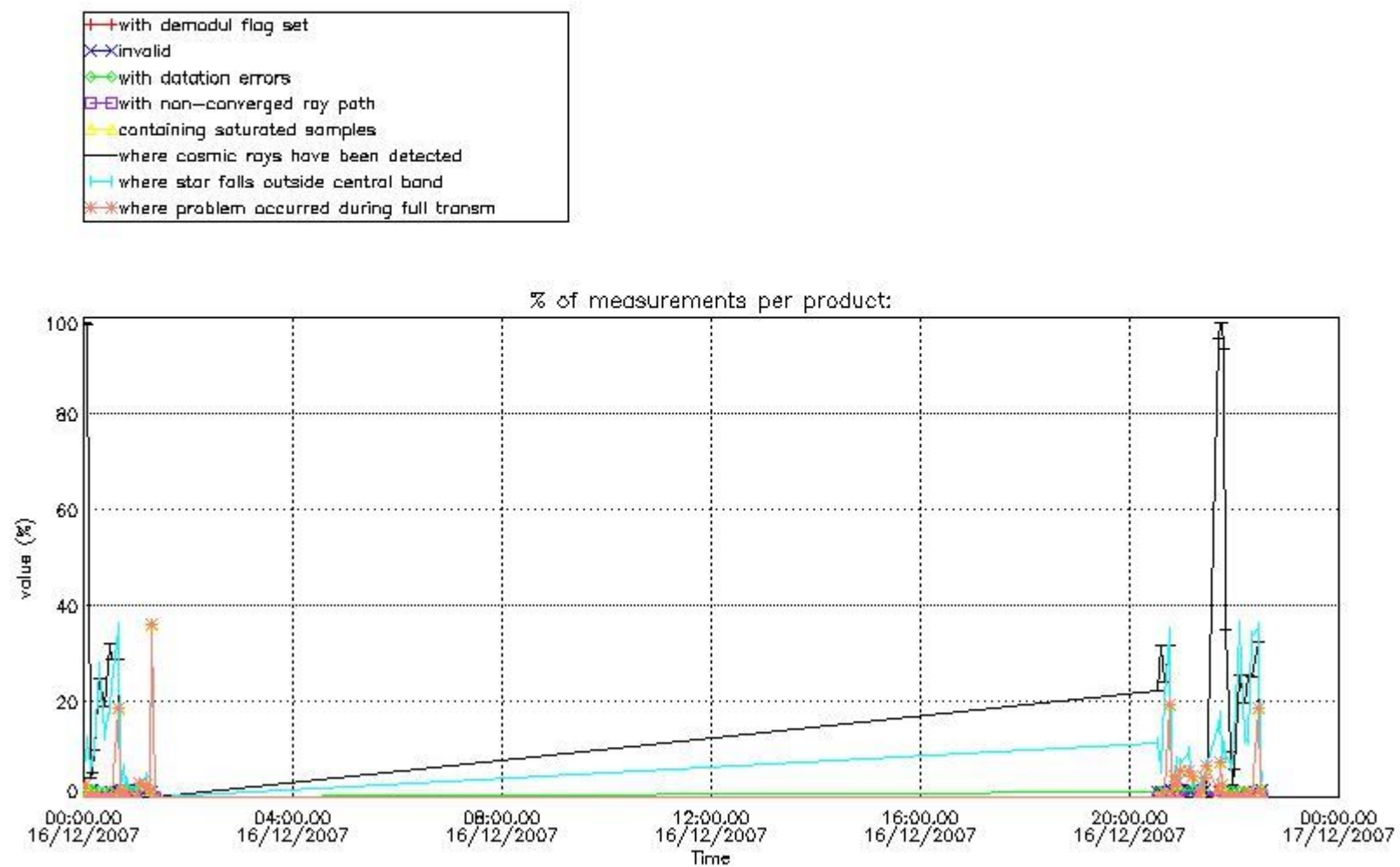
#### 5. Demodulation flag and quality information monitoring

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:

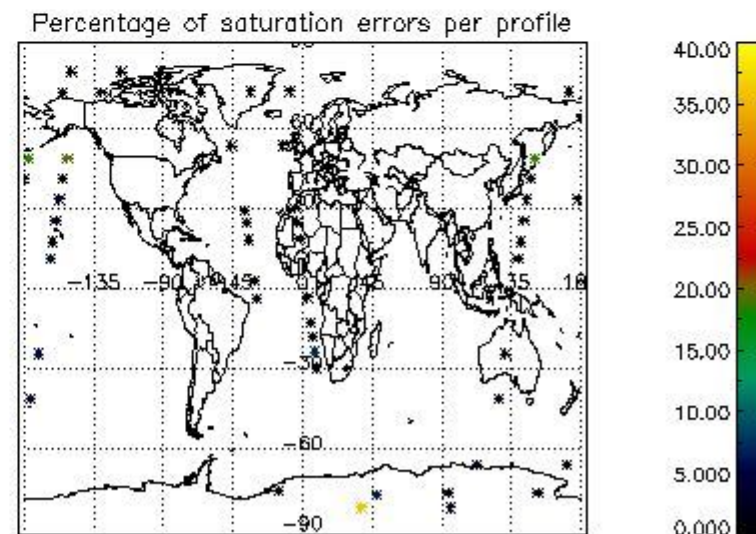
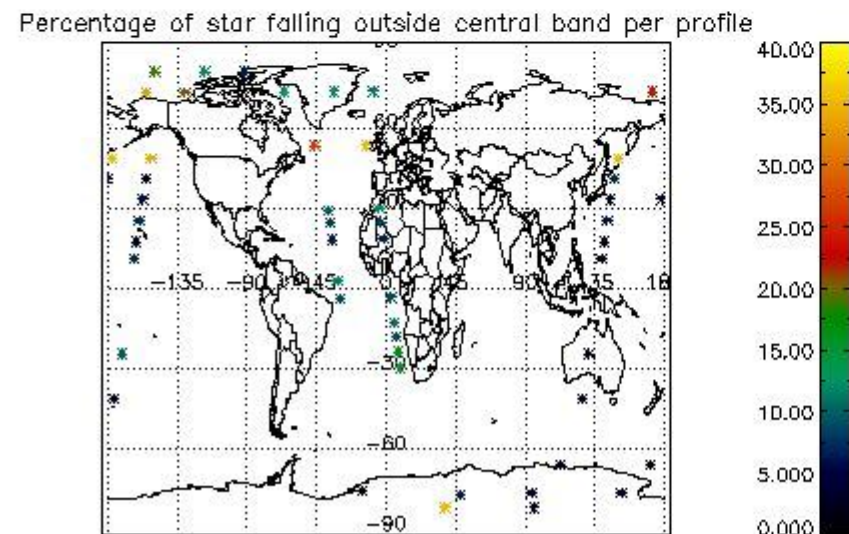
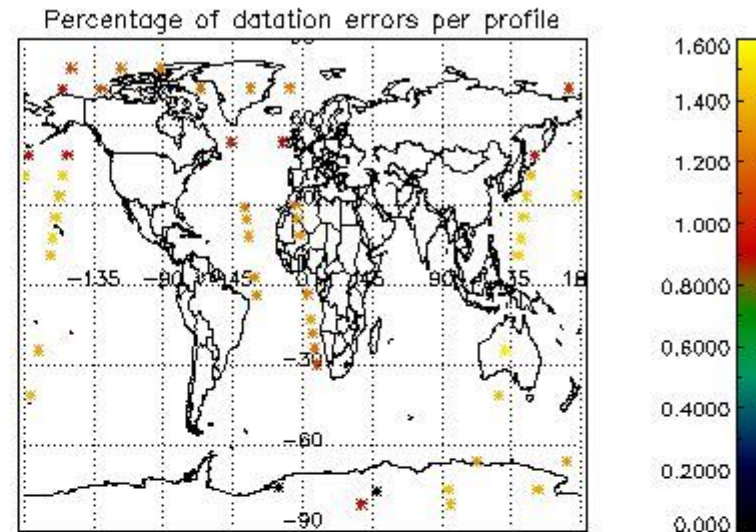
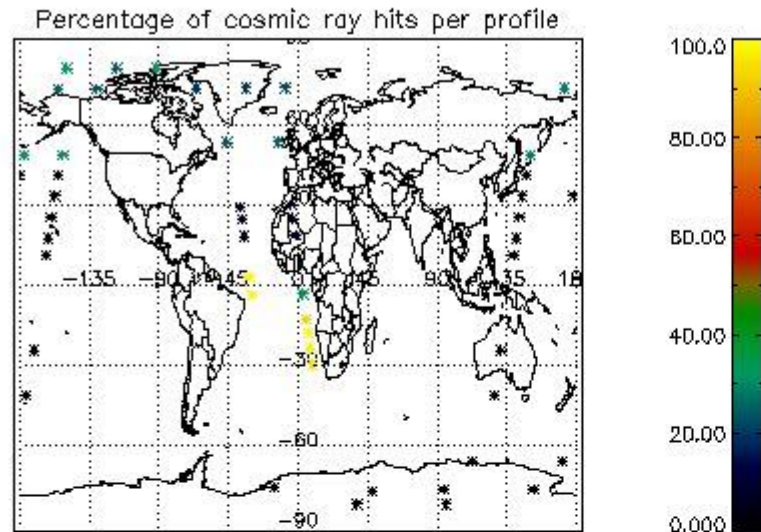
At least one measurement with demodulation flag set:	31.3726 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





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

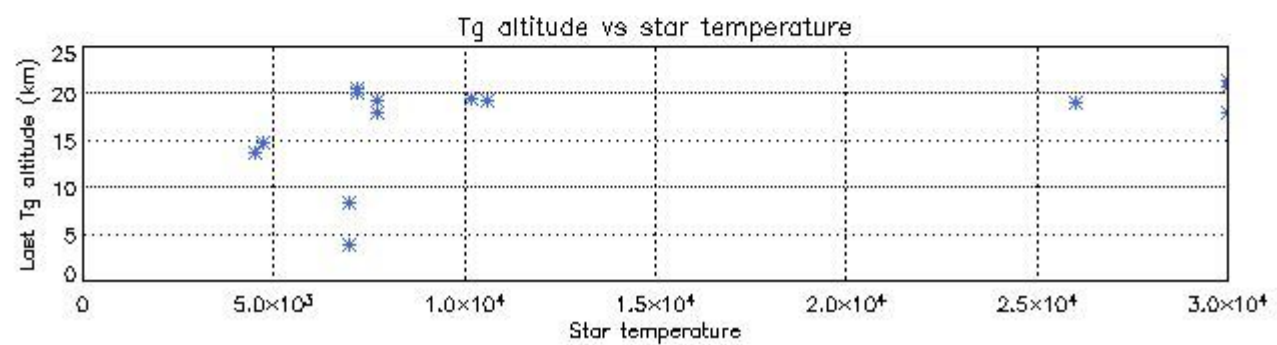
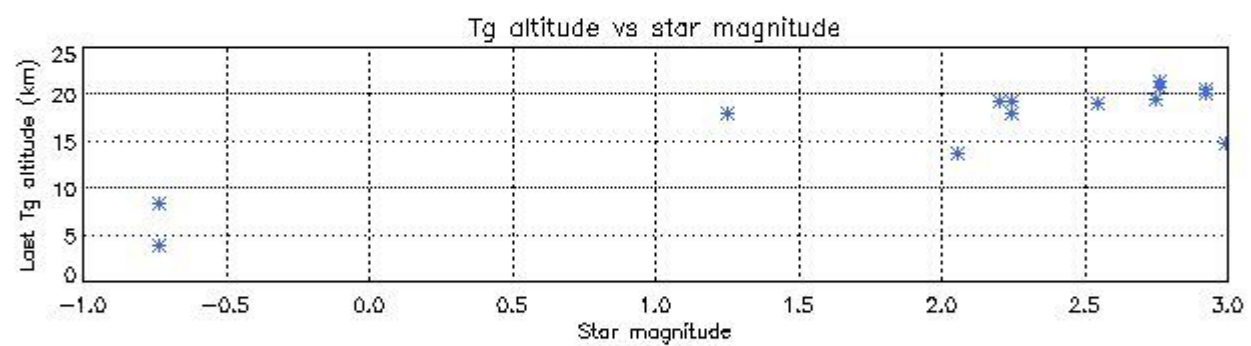
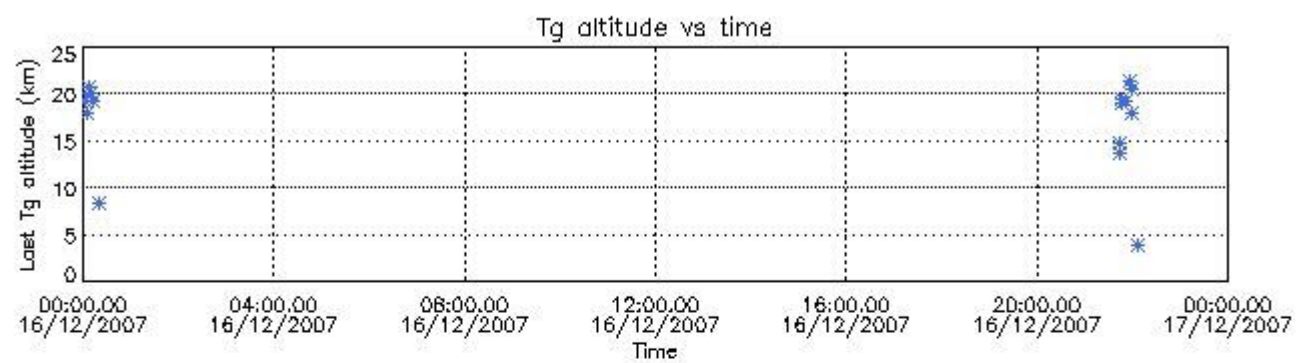
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.014	22.412	NaN
St. deviation:	4.9601	4.5821	NaN
Maximum:	21.341	29.510	NaN
Minimum:	3.8339	3.9529	NaN
Number of data:	15.000	24.000	NaN

### 6.2 Plot for DARK limb products

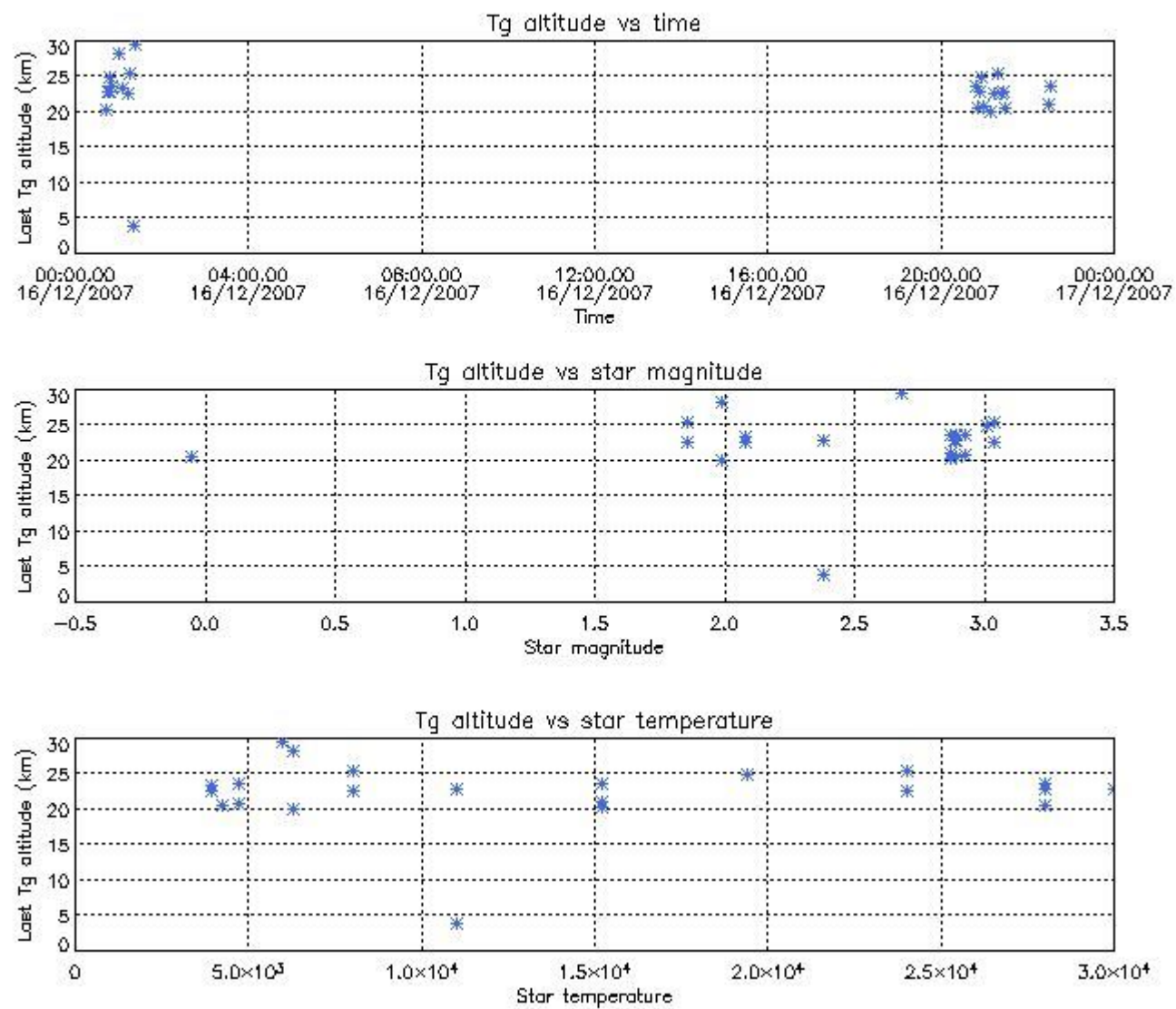


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

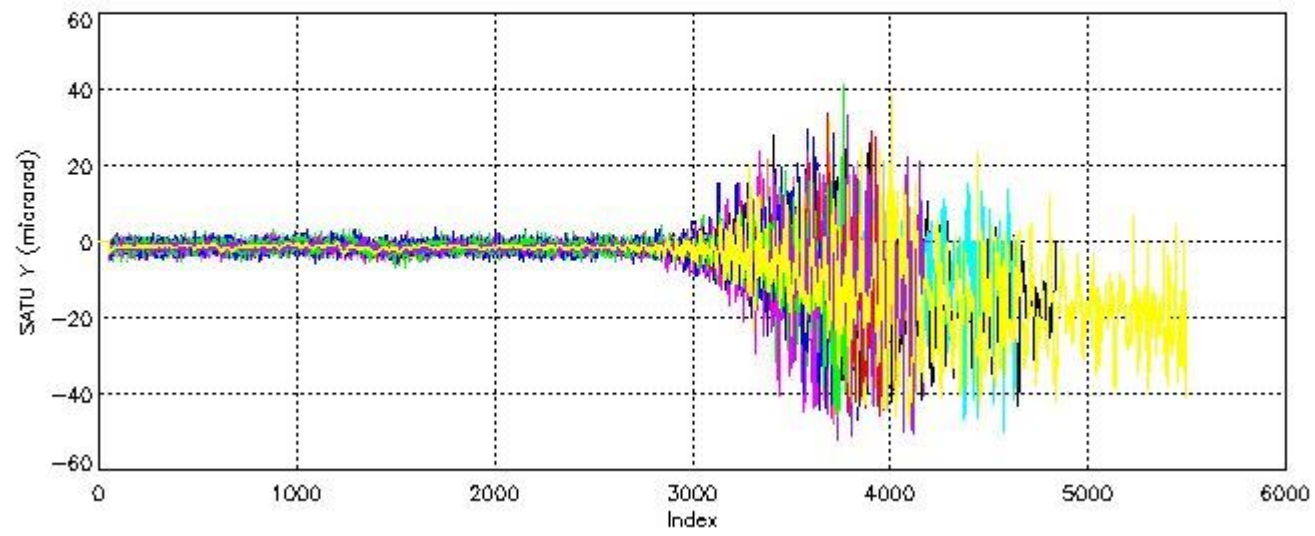
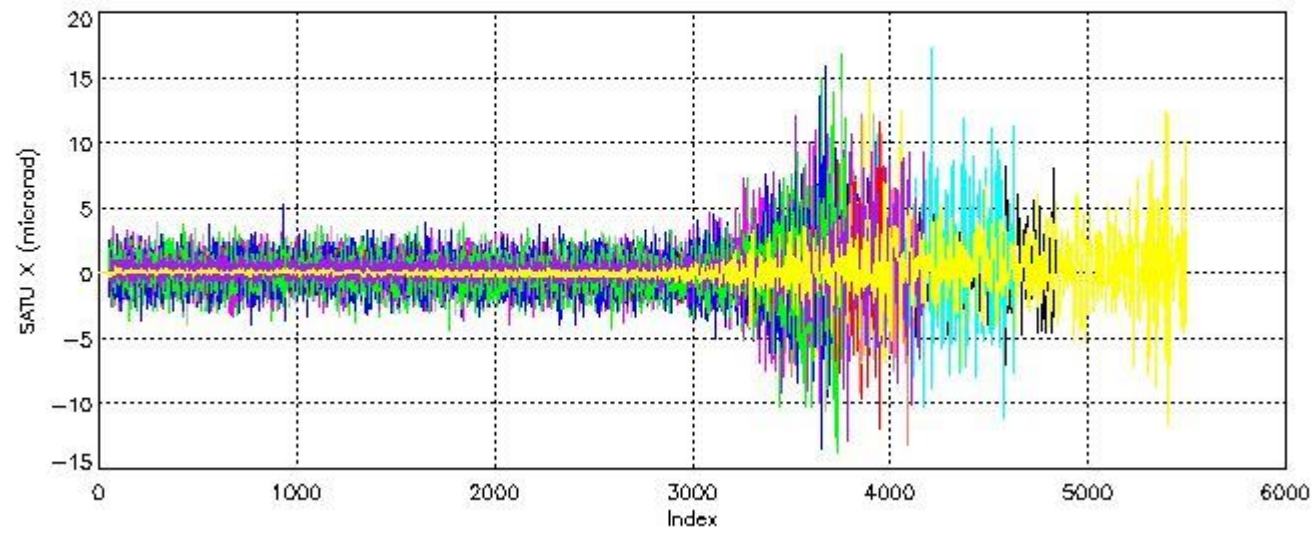


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.12730	-1.3104	0.068532	-1.2261
St. deviation:	0.68996	0.90211	1.0160	1.2789
Maximum:	3.9000	2.9000	5.5000	5.2000
Minimum:	-4.0000	-5.5000	-5.4000	-8.1000



Number of data:	13750.	13750.	19850.	19850.
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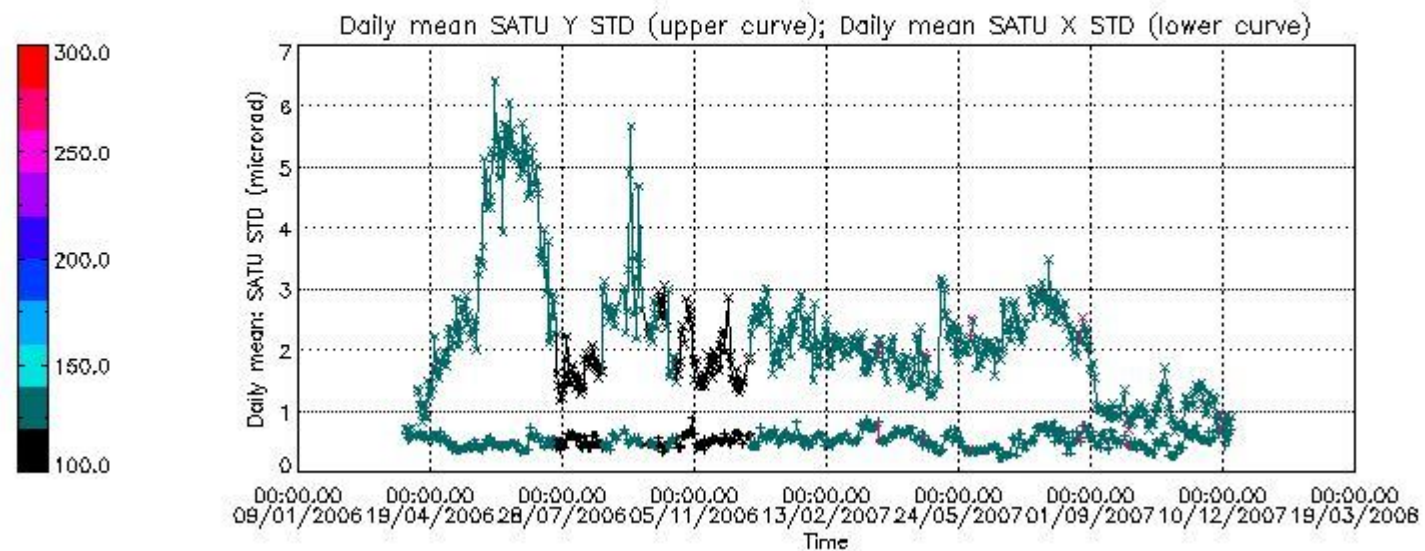
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

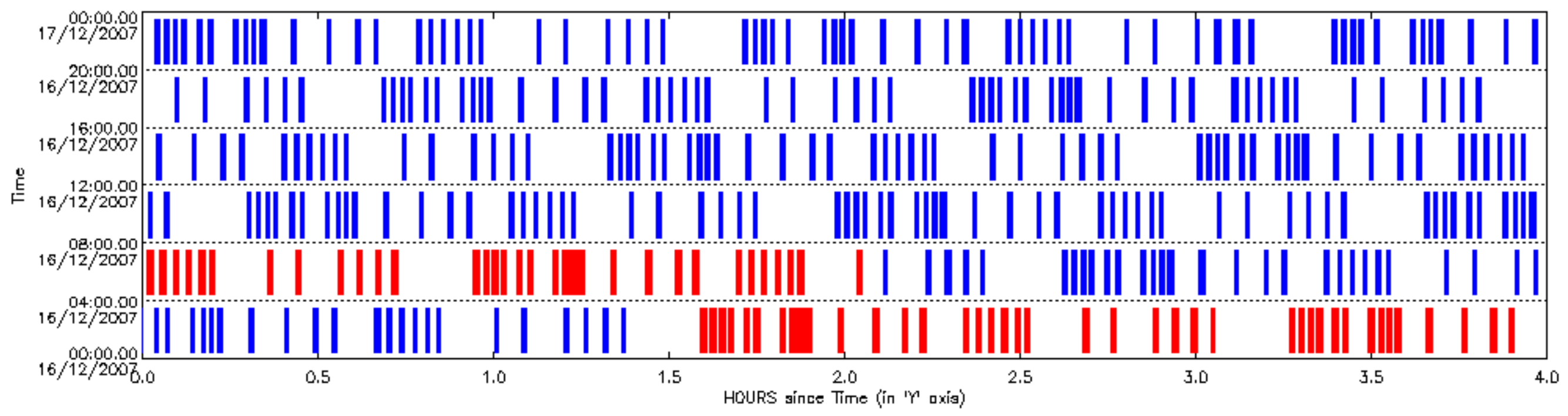
Lower curve: STD of SATU X axis

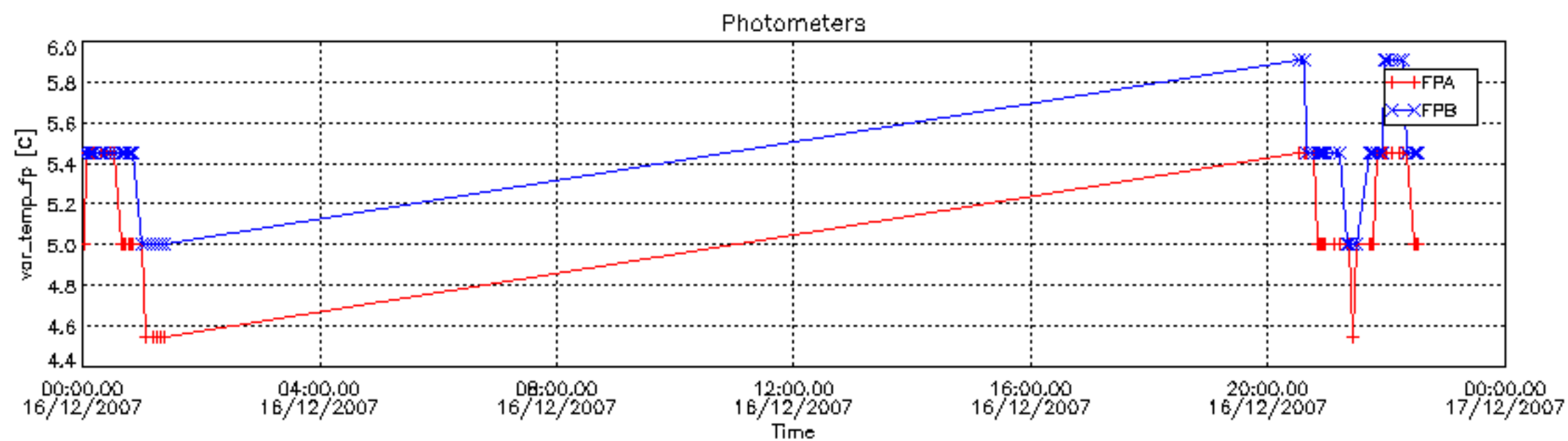
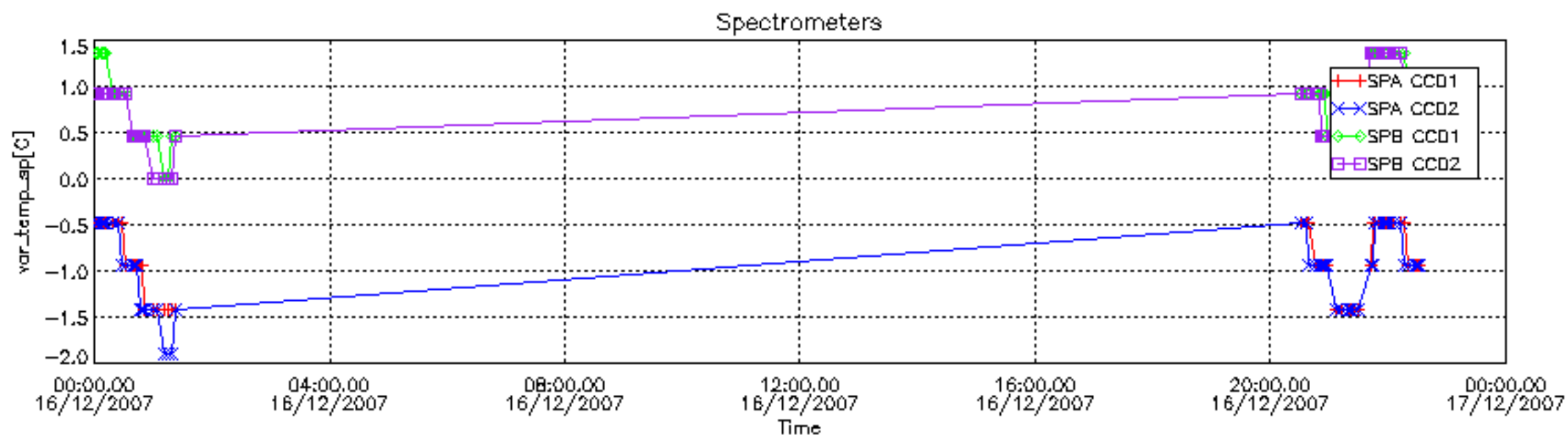


### 8. Auxiliary Data Files used for the production reported in section 2.4

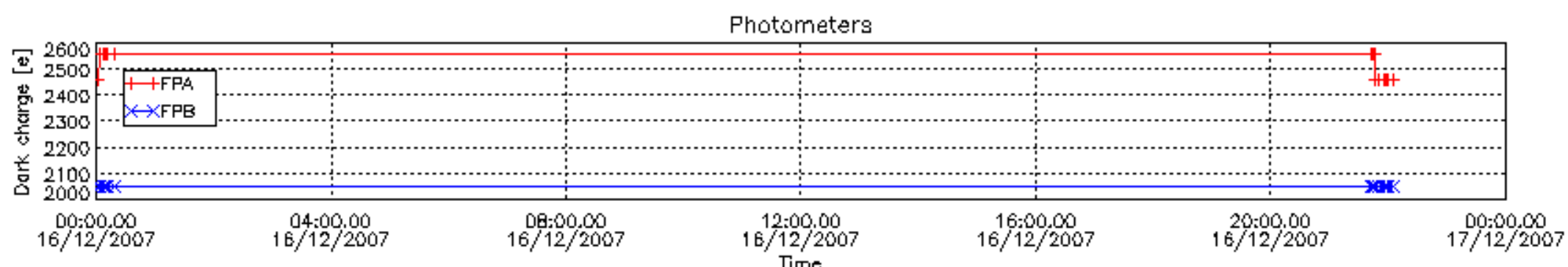
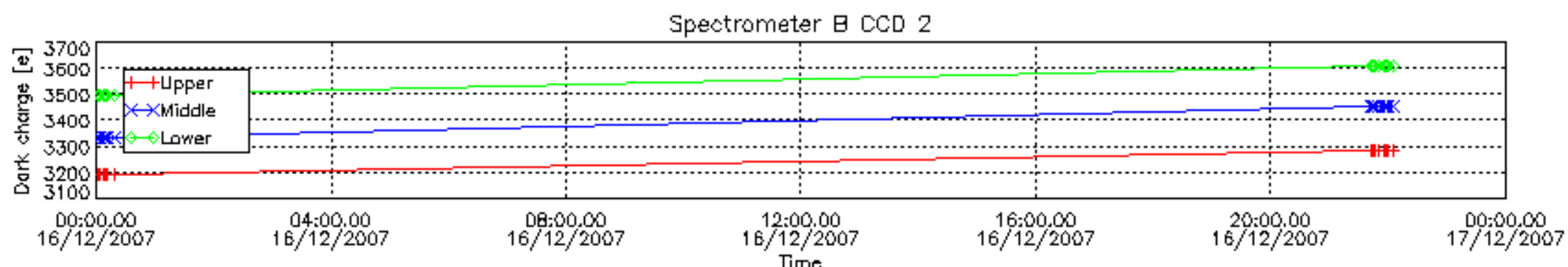
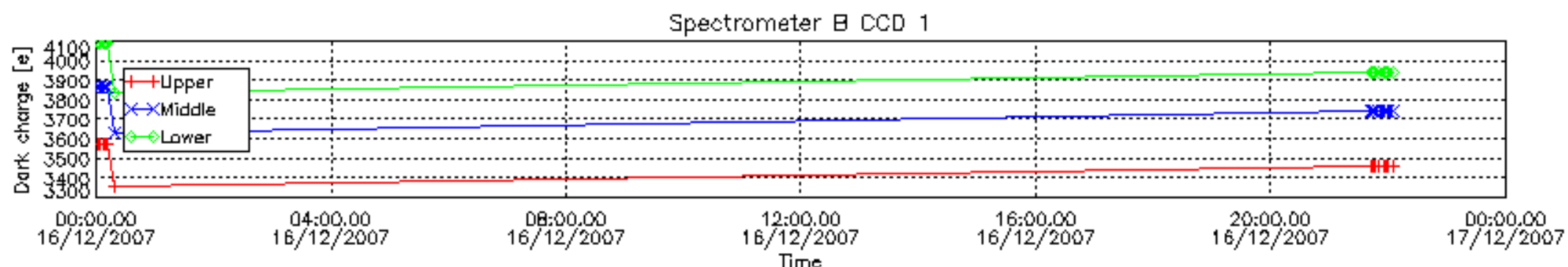
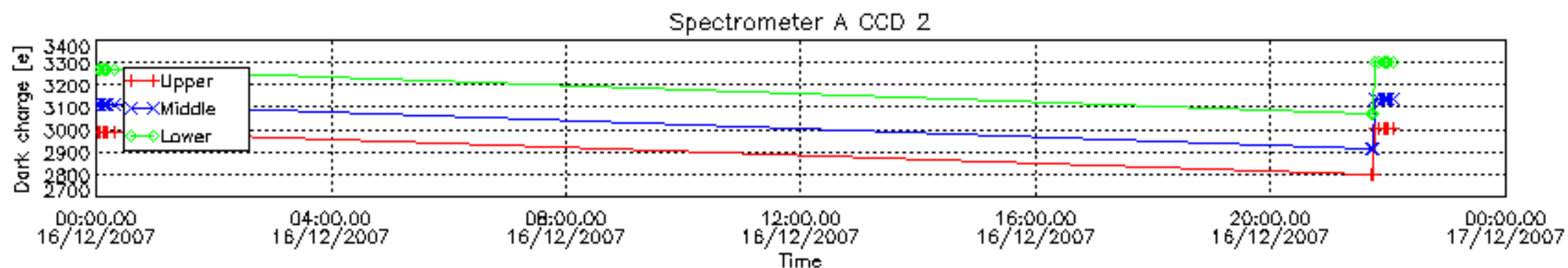
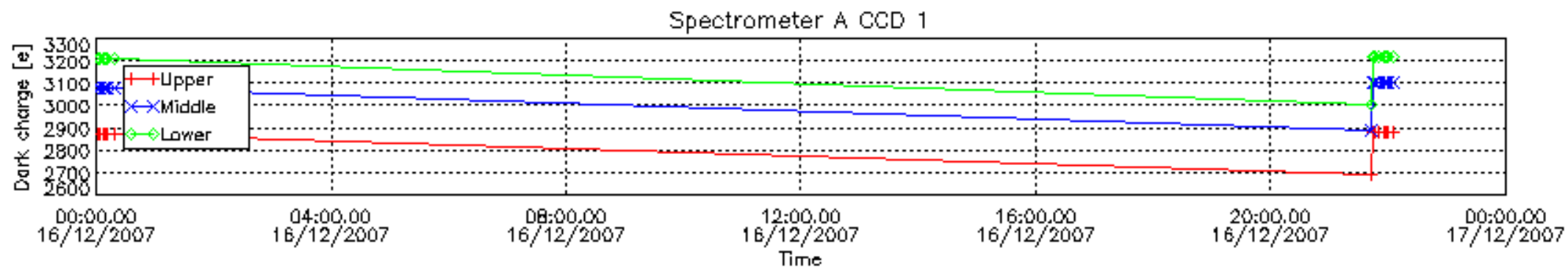
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

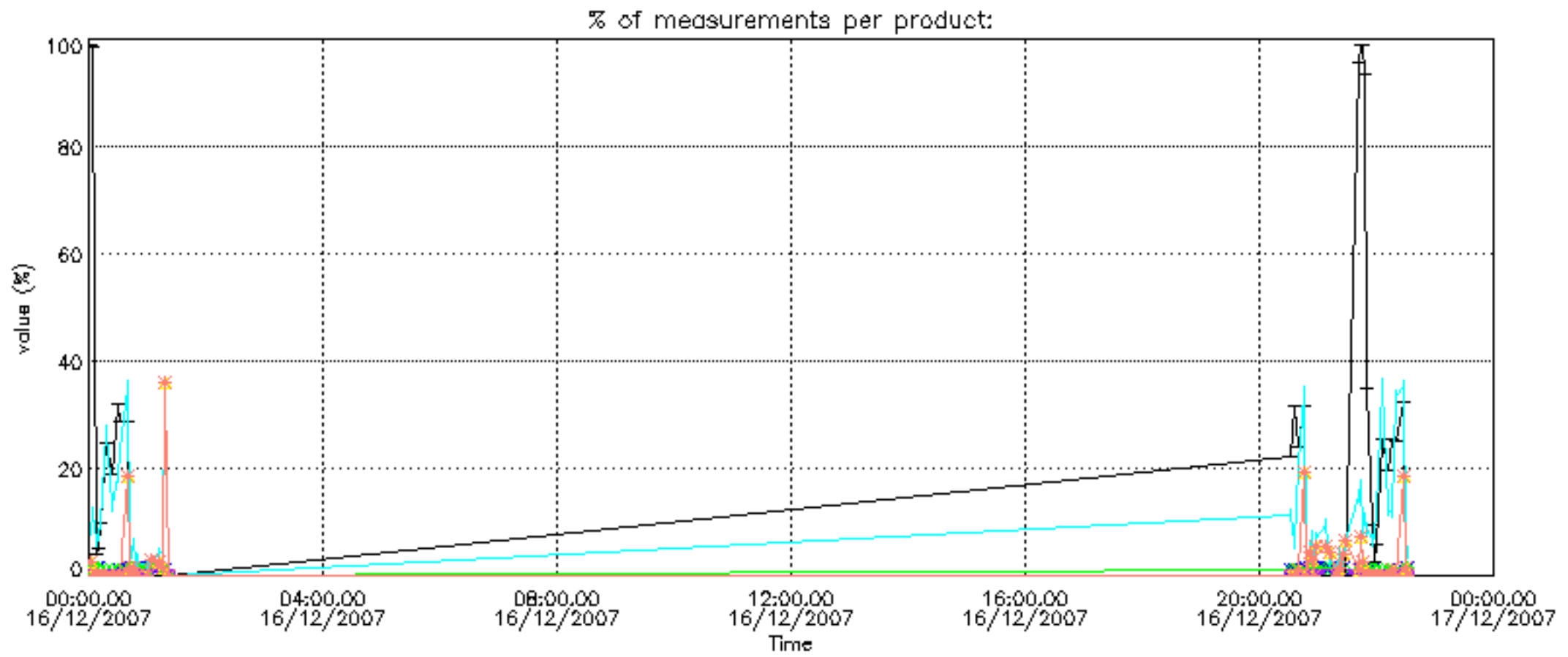
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-DEC-2007 00:02:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-DEC-2007 00:02:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-DEC-2007 00:02:01
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ECMWF_FILE	AUX_ECF_AXNECM20071216_063111_20071216_150000_20071217_030000	22	16-DEC-2007 20:31:24
ECMWF_FILE	AUX_ECF_AXNECM20071216_063112_20071216_210000_20071217_090000	37	16-DEC-2007 21:42:37
OPTIONAL_ECMWF_FILE	MISSING	1	16-DEC-2007 00:02:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071215_220926_000057382064_00172_30286_4759.N1	1	16-DEC-2007 00:02:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071216_202303_000041442064_00186_30300_4761.N1	22	16-DEC-2007 20:31:24



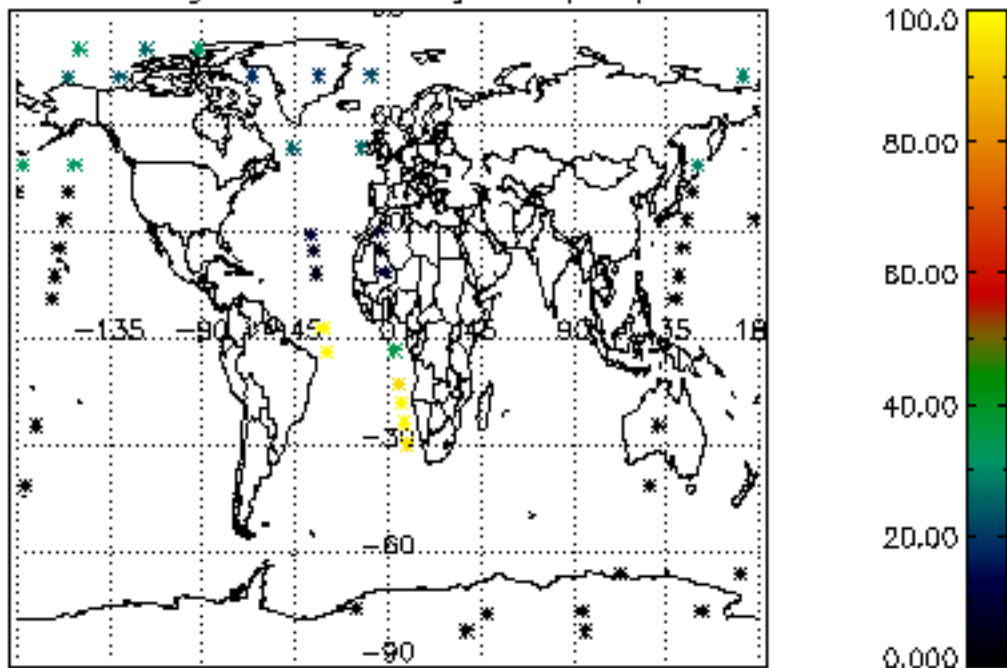




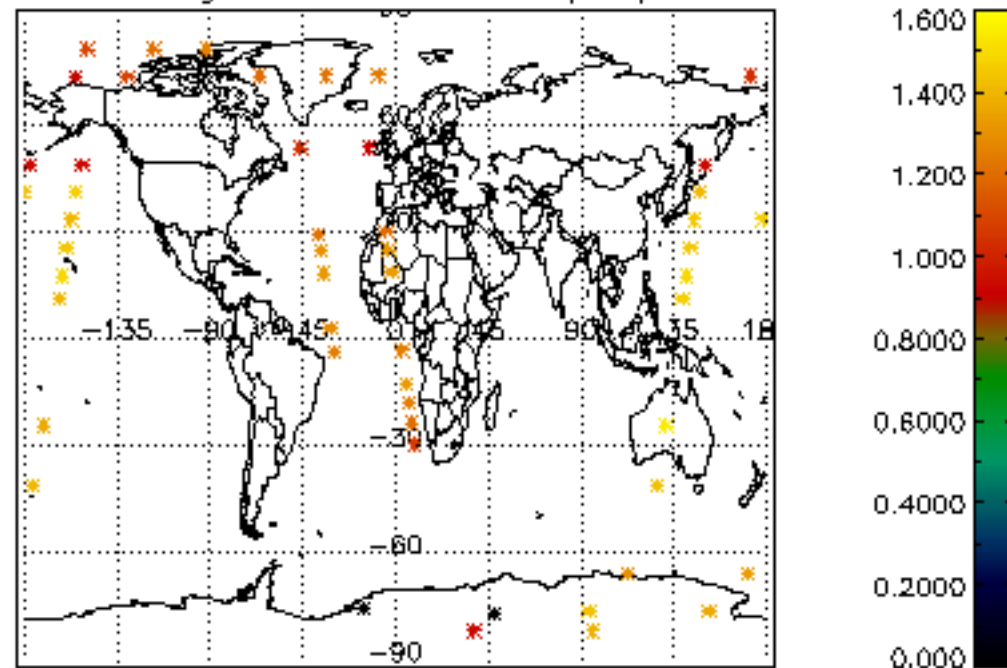




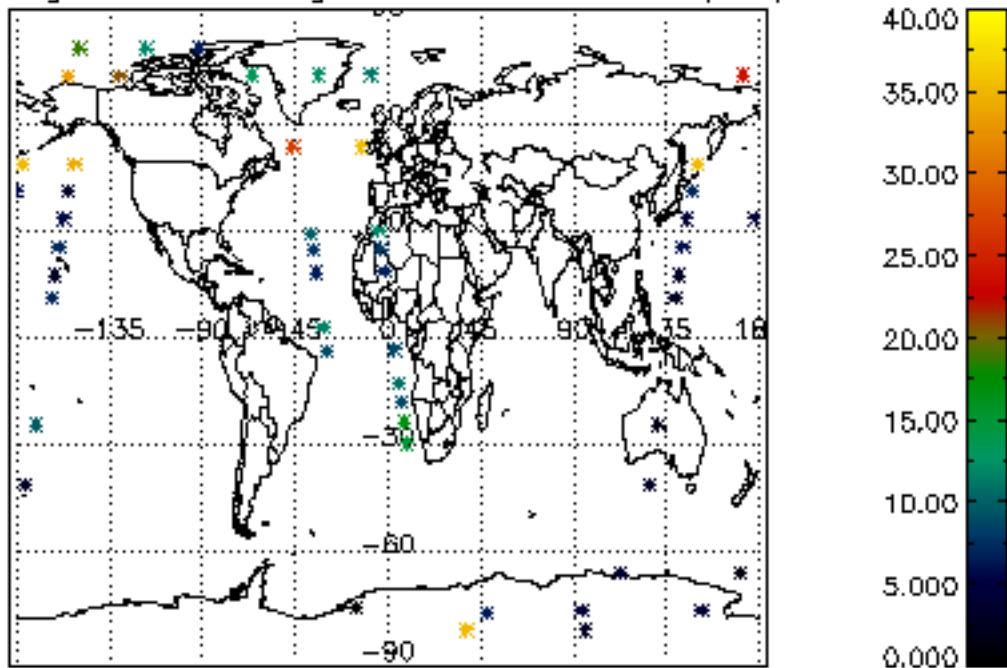
Percentage of cosmic ray hits per profile



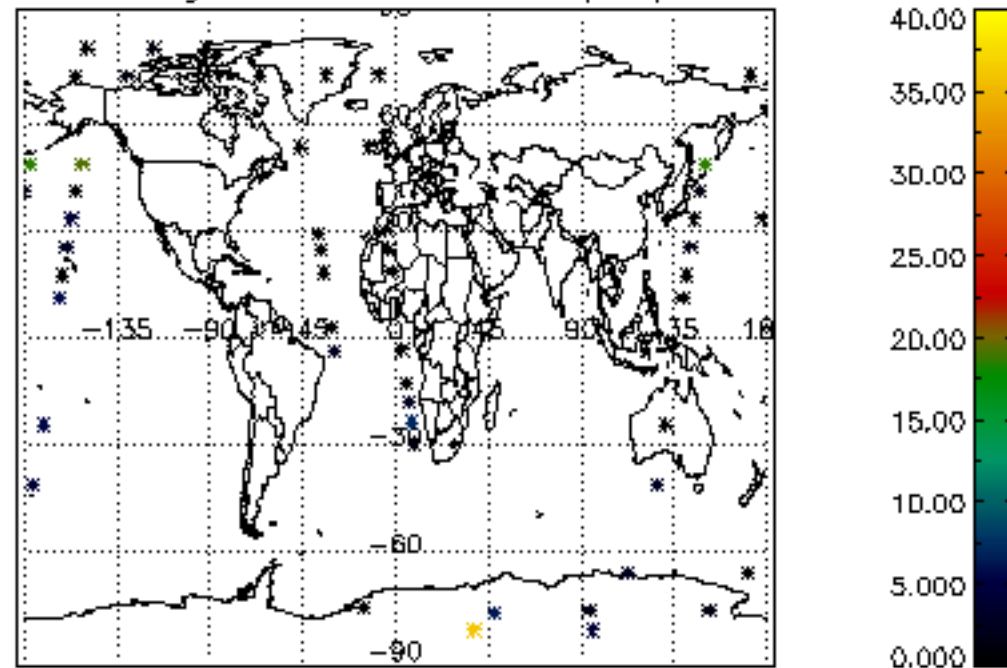
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

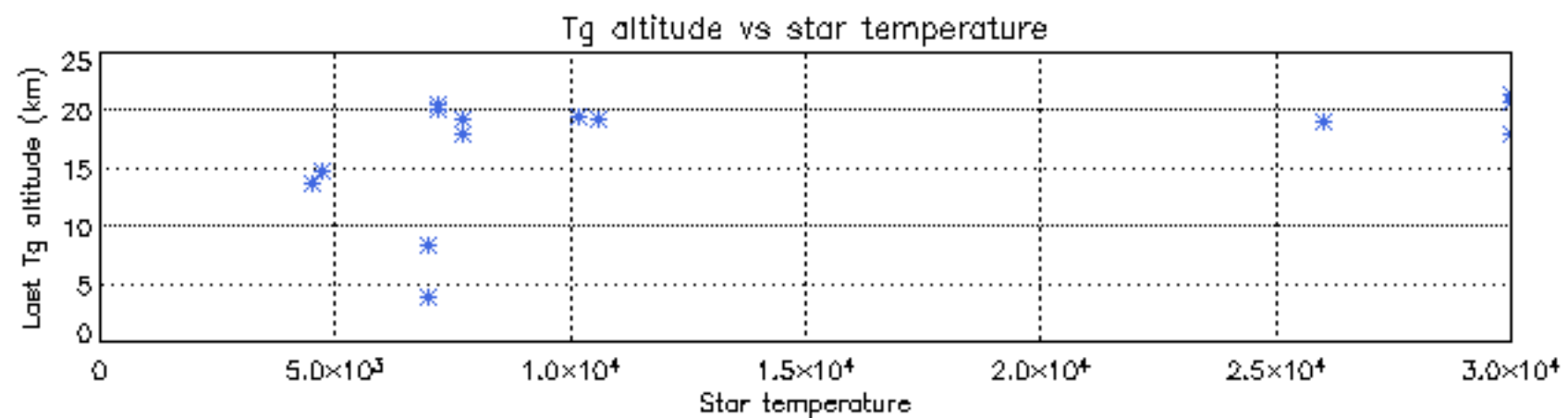
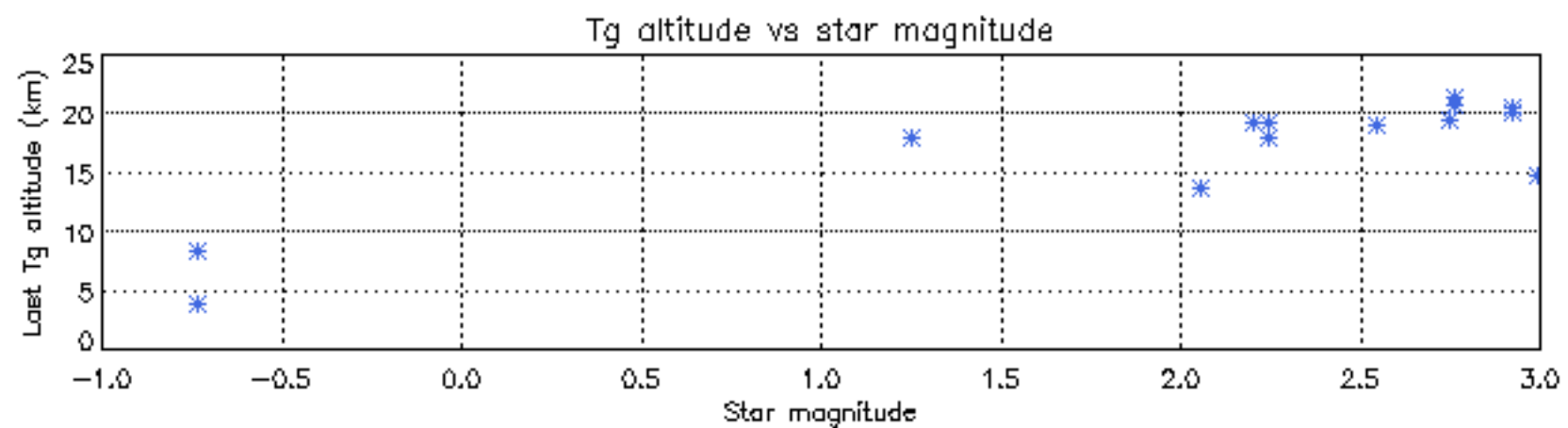
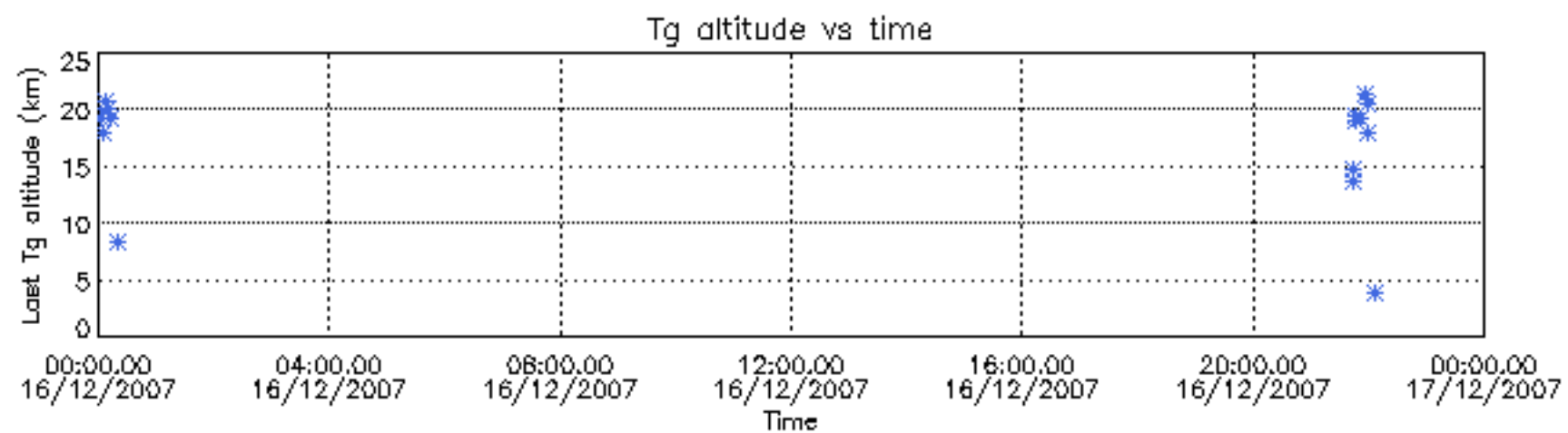


Percentage of saturation errors per profile

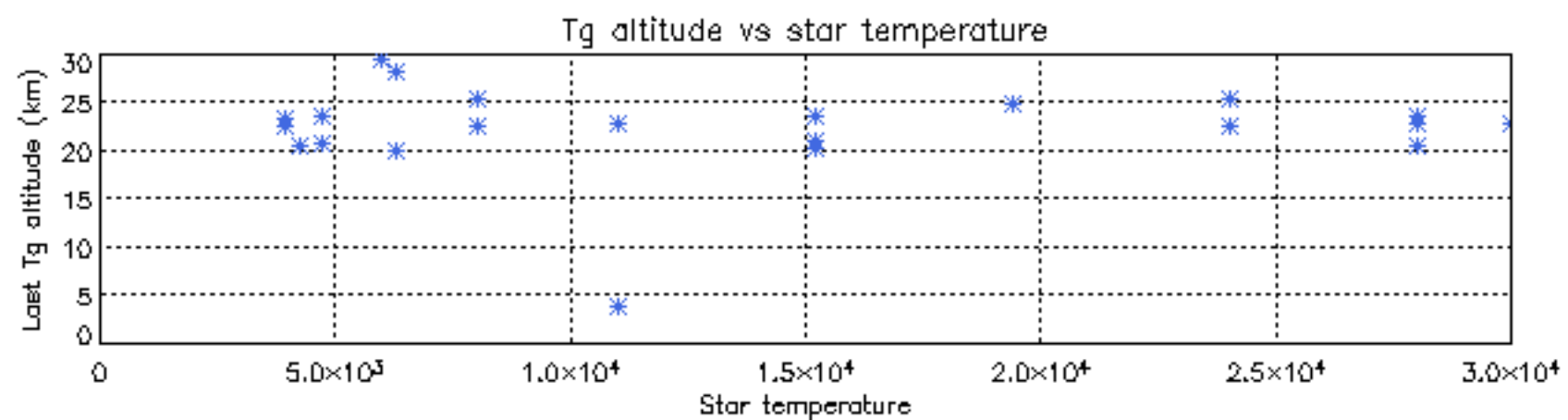
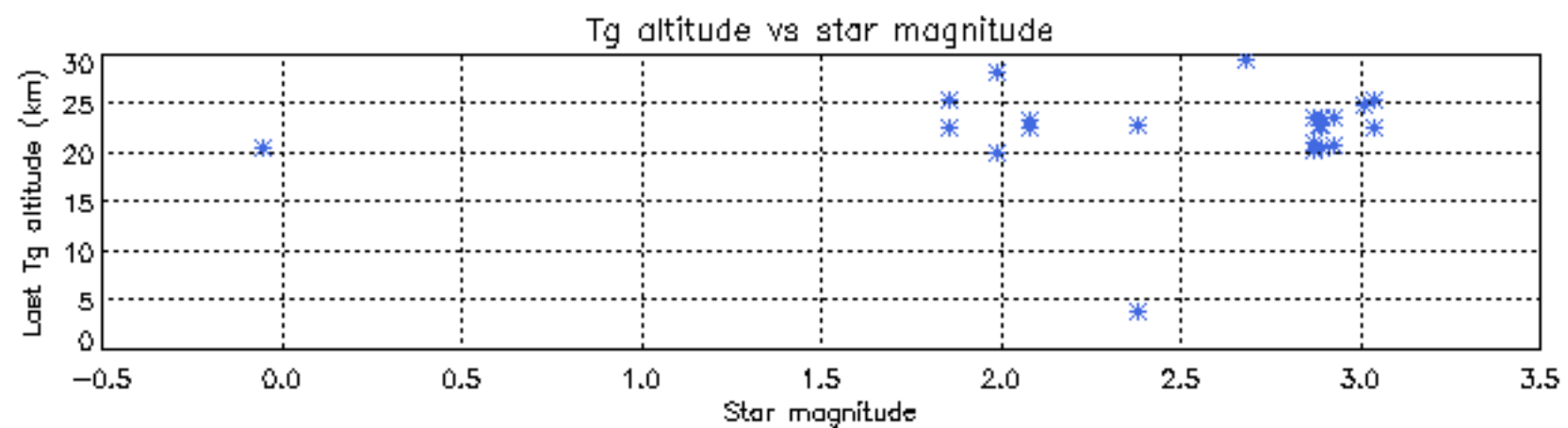
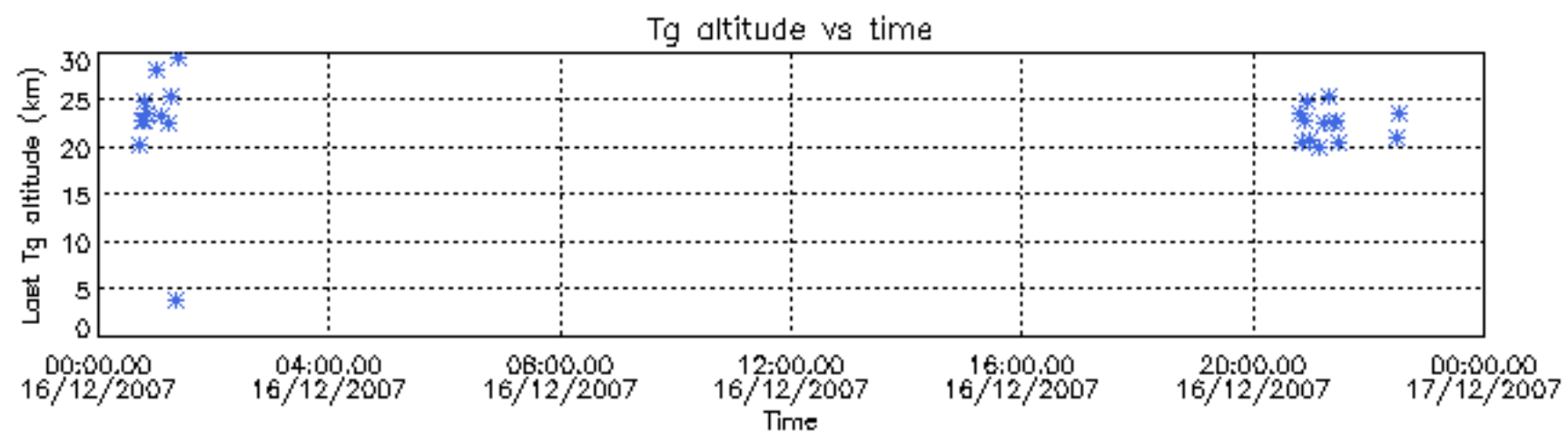


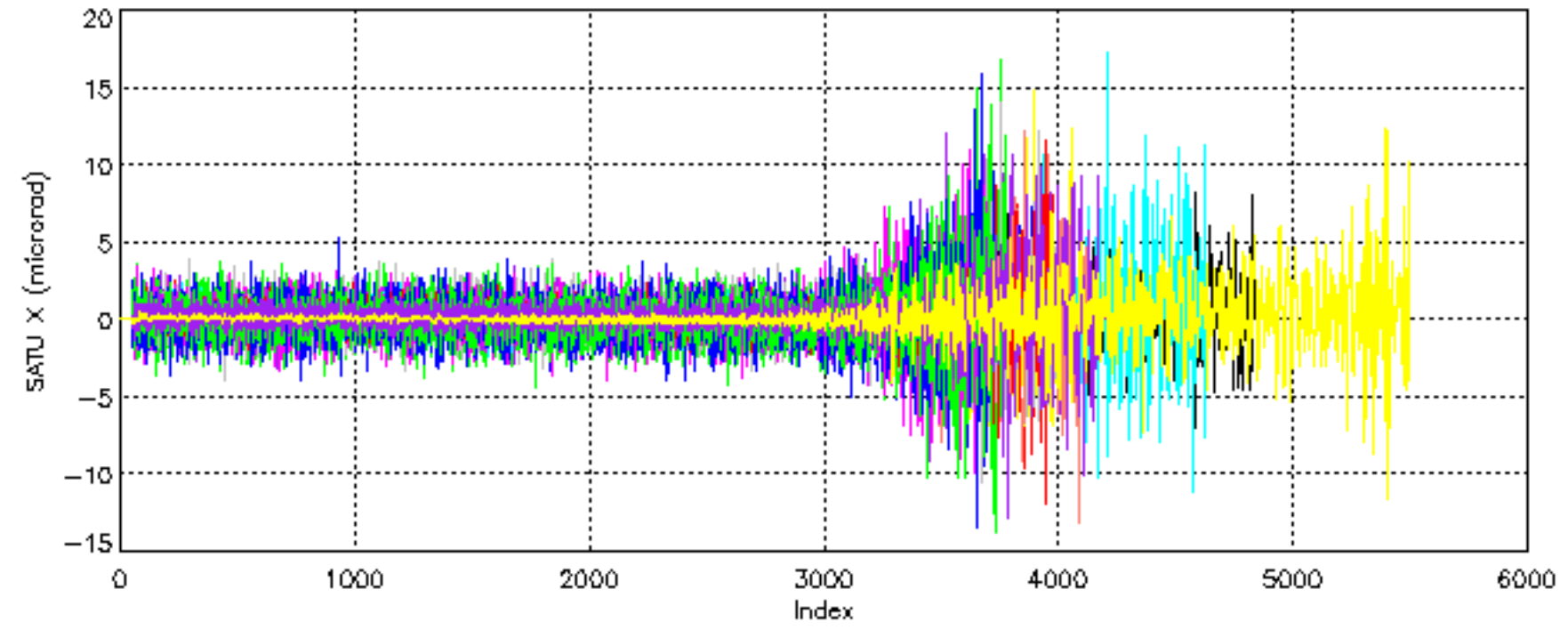


Tangent altitude at which the star is lost

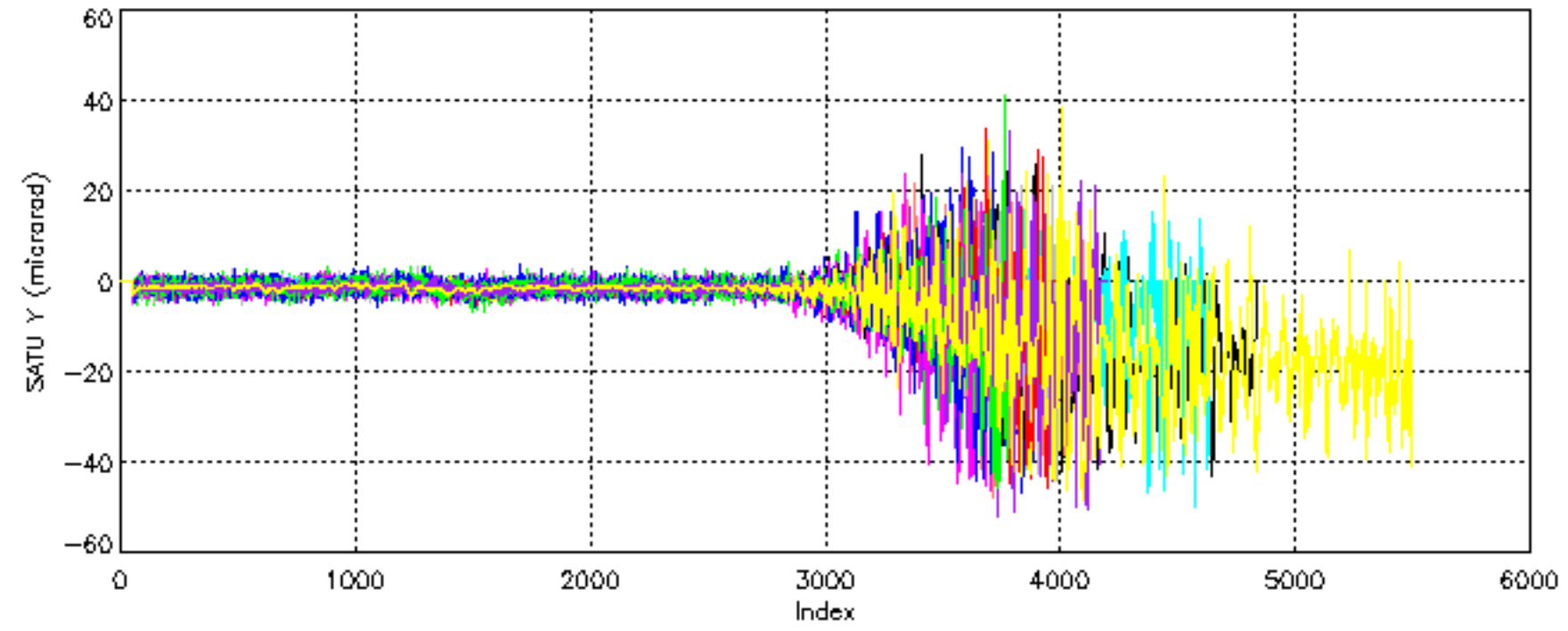


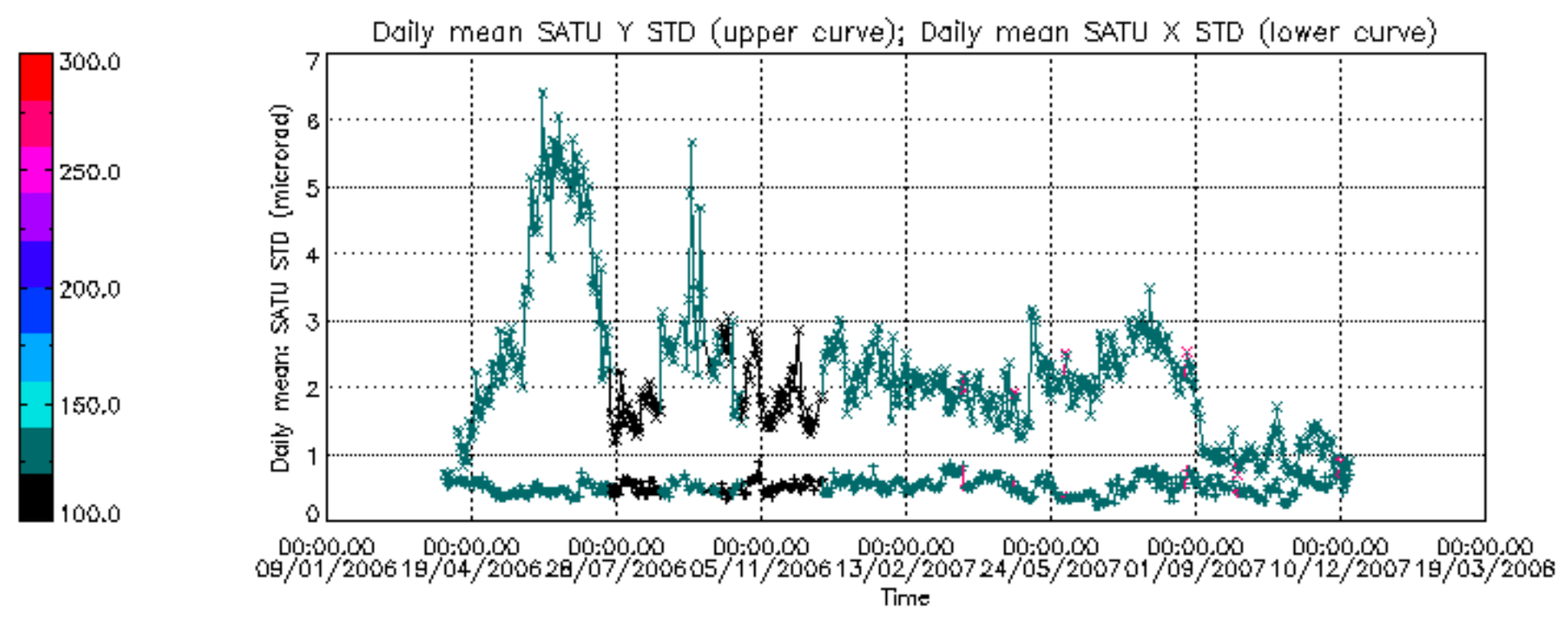
Tangent altitude at which the star is lost











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26; 6917.4; 12-DEC-2007 12:27:50; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;30237  
27; 7285.2; 12-DEC-2007 12:33:57; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 0;30237  
28; 7593.6; 12-DEC-2007 12:39:06; Dark ; 33.0; 101; 11Alp Lep ; 2.58; 7000;occ; 66; 0;30237

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 23; 6771.8; 12-DEC-2007 14:06:00; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;30238  
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 8; 3705.6; 12-DEC-2007 14:55:30; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30239  
 9; 3994.0; 12-DEC-2007 15:00:18; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;30239  
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 13; 4714.0; 12-DEC-2007 15:12:18; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;30239  
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 23; 6772.6; 12-DEC-2007 15:46:37; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;30239  
 24; 6918.4; 12-DEC-2007 15:49:02; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;30239  
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 14; 4333.0; 12-DEC-2007 16:46:33; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30240  
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 23; 6257.8; 12-DEC-2007 17:18:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;30240  
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 6; 2588.8; 19-DEC-2007 12:36:10; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30338  
 7; 2721.9; 19-DEC-2007 12:38:23; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;30338  
 8; 3422.4; 19-DEC-2007 12:50:04; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30338  
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 11; 4342.0; 19-DEC-2007 13:05:24; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;30338  
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 13; 4706.0; 19-DEC-2007 13:11:28; Bright; 40.5; 3; 16Alp Boo ;-0.05; 4250;occ; 81; 0;30338  
 14; 5267.3; 19-DEC-2007 13:20:49; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30338  
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 17; 6005.2; 19-DEC-2007 13:33:07; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;30338  
 18; 6176.8; 19-DEC-2007 13:35:58; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30338  
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 21; 6560.0; 19-DEC-2007 13:42:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;30338  
 22; 6647.1; 19-DEC-2007 13:43:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30338  
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 11; 3906.0; 19-DEC-2007 14:38:43; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30339  
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 13; 4538.9; 19-DEC-2007 14:49:16; Bright; 49.5; 83; ; 2.38; 11000;occ; 99; 0;30339  
 14; 4706.4; 19-DEC-2007 14:52:04; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;30339  
 15; 5267.8; 19-DEC-2007 15:01:25; Bright; 35.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 71; 0;30339  
 16; 5656.7; 19-DEC-2007 15:07:54; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;30339  
 17; 5835.5; 19-DEC-2007 15:10:53; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30339  
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 19; 6177.2; 19-DEC-2007 15:16:35; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;30339  
 20; 6370.4; 19-DEC-2007 15:19:48; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30339  
 21; 6474.4; 19-DEC-2007 15:21:32; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;30339  
 22; 6560.6; 19-DEC-2007 15:22:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30339  
 23; 6647.9; 19-DEC-2007 15:24:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30339  
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 25; 7314.4; 19-DEC-2007 15:35:32; Dark ; 41.5; 108; Alp Col ; 2.65; 15200;occ; 83; 0;30339

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 4; 2020.5; 19-DEC-2007 15:47:54; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;30340  
 5; 2188.7; 19-DEC-2007 15:50:42; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;30340  
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 11; 3703.7; 19-DEC-2007 16:15:57; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30340  
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 13; 4342.3; 19-DEC-2007 16:26:36; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;30340  
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 16; 5268.1; 19-DEC-2007 16:42:01; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30340  
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 21; 6371.1; 19-DEC-2007 17:00:25; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30340  
 22; 6475.1; 19-DEC-2007 17:02:09; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30340  
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 24; 6648.7; 19-DEC-2007 17:05:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30340  
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 9; 2722.1; 19-DEC-2007 17:40:12; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;30341  
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 11; 3703.6; 19-DEC-2007 17:56:33; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30341  
 12; 3906.2; 19-DEC-2007 17:59:56; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30341  
 13; 4342.2; 19-DEC-2007 18:07:12; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;30341  
 14; 4539.2; 19-DEC-2007 18:10:29; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;30341  
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16; 5268.4; 19-DEC-2007 18:22:38; Bright; 53.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 106; 0;30341  
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 18; 5836.4; 19-DEC-2007 18:32:06; Dark ; 38.5; 95; Zet Cen ; 2.55; 26000;occ; 77; 0;30341  
 19; 6007.2; 19-DEC-2007 18:34:57; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;30341  
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 22; 6475.5; 19-DEC-2007 18:42:45; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30341  
 23; 6561.9; 19-DEC-2007 18:44:11; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30341  
 24; 6649.4; 19-DEC-2007 18:45:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30341  
 25; 6958.2; 19-DEC-2007 18:50:48; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30341

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 3; 1572.0; 19-DEC-2007 19:01:38; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30342  
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 5; 1897.8; 19-DEC-2007 19:07:03; Dark ; 29.0; 72; 34Del Ori ; 2.25; 30000;occ; 58; 0;30342  
 6; 2020.2; 19-DEC-2007 19:09:06; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;30342  
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 17; 4707.1; 19-DEC-2007 19:53:53; Bright; 41.5; 3; 16Alp Boo ; -0.05; 4250;occ; 83; 0;30342  
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 19; 5658.1; 19-DEC-2007 20:09:44; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30342  
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 23; 6371.9; 19-DEC-2007 20:21:37; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30342  
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16; 2013.9; 25-DEC-2007 02:34:30; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30418
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26; 7334.7; 25-DEC-2007 09:04:59; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30421
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7; 2595.4; 25-DEC-2007 09:26:35; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30422
8; 2707.1; 25-DEC-2007 09:28:27; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30422
9; 2849.2; 25-DEC-2007 09:30:49; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30422
10; 3422.7; 25-DEC-2007 09:40:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30422
11; 3699.4; 25-DEC-2007 09:44:59; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30422
12; 3914.9; 25-DEC-2007 09:48:35; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30422
13; 4528.0; 25-DEC-2007 09:58:48; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30422
14; 4863.8; 25-DEC-2007 10:04:24; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30422
15; 5154.4; 25-DEC-2007 10:09:14; Bright; 34.5; 104; 27Bet Lib ; 2.61; 13100;occ; 69; 0;30422
16; 5300.9; 25-DEC-2007 10:11:41; Bright; 37.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 75; 0;30422
17; 5701.0; 25-DEC-2007 10:18:21; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;30422
18; 5803.1; 25-DEC-2007 10:20:03; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30422
19; 6038.2; 25-DEC-2007 10:23:58; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;30422
20; 6215.5; 25-DEC-2007 10:26:55; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30422
21; 6405.6; 25-DEC-2007 10:30:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30422
22; 6515.8; 25-DEC-2007 10:31:56; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30422
23; 6609.8; 25-DEC-2007 10:33:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30422
24; 6714.3; 25-DEC-2007 10:35:14; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30422
25; 6985.5; 25-DEC-2007 10:39:46; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;30422
26; 7335.0; 25-DEC-2007 10:45:35; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;30422
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_105315\_000059012064\_00309\_30423\_9709.N1

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10; 3699.3; 25-DEC-2007 11:25:35; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30423
11; 3915.0; 25-DEC-2007 11:29:11; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30423
12; 4528.1; 25-DEC-2007 11:39:24; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30423
13; 4863.9; 25-DEC-2007 11:45:00; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30423
14; 5154.6; 25-DEC-2007 11:49:51; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30423
15; 5301.3; 25-DEC-2007 11:52:17; Bright; 38.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 77; 0;30423
16; 5701.5; 25-DEC-2007 11:58:57; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30423
17; 5803.4; 25-DEC-2007 12:00:39; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30423
18; 6038.5; 25-DEC-2007 12:04:34; Dark ; 38.5; 10; Bet Cen ; 0.61; 28000;occ; 77; 0;30423
19; 6215.9; 25-DEC-2007 12:07:32; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30423
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21; 6516.3; 25-DEC-2007 12:12:32; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30423
22; 6610.4; 25-DEC-2007 12:14:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30423
23; 6714.8; 25-DEC-2007 12:15:51; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30423
24; 6985.8; 25-DEC-2007 12:20:22; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30423
25; 7335.2; 25-DEC-2007 12:26:11; Dark ; 39.0; 108; Alp Col ; 2.65; 15200;occ; 78; 0;30423
26; 7619.4; 25-DEC-2007 12:30:55; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30423
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3; 1879.0; 25-DEC-2007 12:35:51; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;30424
4; 2013.8; 25-DEC-2007 12:38:06; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30424
5; 2190.5; 25-DEC-2007 12:41:02; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30424
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11; 3915.1; 25-DEC-2007 13:09:47; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30424
12; 4528.2; 25-DEC-2007 13:20:00; Bright; 53.0; 67; 5Alp CrB ; 2.22; 11000;occ; 106; 0;30424
13; 4864.3; 25-DEC-2007 13:25:36; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30424
14; 5155.1; 25-DEC-2007 13:30:27; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30424
15; 5301.8; 25-DEC-2007 13:32:54; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;30424
16; 5702.1; 25-DEC-2007 13:39:34; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;30424
17; 5803.8; 25-DEC-2007 13:41:16; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30424
18; 6038.9; 25-DEC-2007 13:45:11; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;30424
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21; 6516.8; 25-DEC-2007 13:53:09; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30424
22; 6611.0; 25-DEC-2007 13:54:43; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30424
23; 6715.3; 25-DEC-2007 13:56:27; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;30424
24; 6986.2; 25-DEC-2007 14:00:58; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30424
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3; 1879.1; 25-DEC-2007 14:16:27; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30425
4; 2013.8; 25-DEC-2007 14:18:42; Dark ; 44.5; 27; 24Gam Ori ; 1.64; 26000;occ; 89; 0;30425
5; 2190.6; 25-DEC-2007 14:21:38; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30425
6; 2463.8; 25-DEC-2007 14:26:11; Bright; 36.0; 150; 44Zet Per ; 2.89; 28000;occ; 72; 0;30425
7; 2595.8; 25-DEC-2007 14:28:23; Bright; 33.0; 149; 45Eps Per ; 2.89; 30000;occ; 66; 0;30425
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9; 3422.9; 25-DEC-2007 14:42:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30425
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11; 3915.3; 25-DEC-2007 14:50:23; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30425
12; 4528.6; 25-DEC-2007 15:00:36; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30425
13; 4864.6; 25-DEC-2007 15:06:12; Bright; 51.5; 102; 24Alp Ser ; 2.60; 4250;occ; 103; 0;30425
14; 5155.5; 25-DEC-2007 15:11:03; Bright; 34.0; 104; 27Bet Lib ; 2.61; 13100;occ; 68; 0;30425
15; 5302.4; 25-DEC-2007 15:13:30; Bright; 40.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 80; 0;30425

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16; 5702.8; 25-DEC-2007 15:20:10; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;30425  
 17; 5804.2; 25-DEC-2007 15:21:52; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30425  
 18; 6039.3; 25-DEC-2007 15:25:47; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;30425  
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 21; 6517.2; 25-DEC-2007 15:33:45; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30425  
 22; 6611.6; 25-DEC-2007 15:35:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30425  
 23; 6715.9; 25-DEC-2007 15:37:04; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30425  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_172800\_000057342064\_00313\_30427\_9713.N1

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 18; 5804.9; 25-DEC-2007 18:43:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30427  
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 23; 6716.9; 25-DEC-2007 18:58:17; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30427  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20071225\_190836\_000057342064\_00314\_30428\_9714.N1

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 3; 1759.2; 25-DEC-2007 19:16:15; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30428  
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 7; 2464.2; 25-DEC-2007 19:28:00; Bright; 34.0; 150; 44Zet Per ; 2.89; 28000;occ; 68; 0;30428

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 18; 2600.3; 27-DEC-2007 23:28:50; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;30459  
 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459  
 20; 2783.5; 27-DEC-2007 23:31:53; Bright; 35.5; 35; 33Alp Per ; 1.79; 6250;occ; 71; 0;30459  
 21; 3422.9; 27-DEC-2007 23:42:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30459  
 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459  
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459  
 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459  
 25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459  
 26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459  
 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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 6; 380.8; 28-DEC-2007 00:32:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30460  
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 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460  
 14; 1879.1; 28-DEC-2007 00:57:24; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;30460  
 15; 2012.8; 28-DEC-2007 00:59:38; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30460  
 16; 2193.1; 28-DEC-2007 01:02:38; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;30460  
 17; 2404.6; 28-DEC-2007 01:06:10; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;30460  
 18; 2600.6; 28-DEC-2007 01:09:26; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30460  
 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30460  
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 22; 3696.6; 28-DEC-2007 01:27:42; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;30460  
 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460  
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 26; 4873.0; 28-DEC-2007 01:47:18; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30460

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6; -19.2; 28-DEC-2007 02:06:22; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30460  
7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461  
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461  
9; 595.7; 28-DEC-2007 02:16:37; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30461  
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11; 961.2; 28-DEC-2007 02:22:42; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;30461  
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13; 1588.8; 28-DEC-2007 02:33:10; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;30461  
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16; 2012.8; 28-DEC-2007 02:40:14; Dark ; 41.0; 27; 24Gam Ori ; 1.64; 26000;occ; 82; 0;30461  
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18; 2404.5; 28-DEC-2007 02:46:46; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30461  
19; 2600.4; 28-DEC-2007 02:50:02; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30461  
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21; 2784.0; 28-DEC-2007 02:53:05; Bright; 37.0; 35; 33Alp Per ; 1.79; 6250;occ; 74; 0;30461  
22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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3; -1624.3; 28-DEC-2007 05:00:49; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30462  
4; -1500.9; 28-DEC-2007 05:02:52; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30462  
5; -1162.3; 28-DEC-2007 05:08:31; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30462  
6; -867.2; 28-DEC-2007 05:13:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30462  
7; -715.9; 28-DEC-2007 05:15:57; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;30462  
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9; -218.0; 28-DEC-2007 05:24:15; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30462  
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12; 199.0; 28-DEC-2007 05:31:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30463  
13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463  
14; 499.7; 28-DEC-2007 05:36:13; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;30463  
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16; 697.7; 28-DEC-2007 05:39:31; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30463  
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18; 1308.1; 28-DEC-2007 05:49:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30463  
19; 1589.2; 28-DEC-2007 05:54:22; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;30463  
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21; 1879.4; 28-DEC-2007 05:59:12; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;30463  
22; 2012.9; 28-DEC-2007 06:01:26; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;30463  
23; 2193.6; 28-DEC-2007 06:04:27; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30463  
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25; 2601.1; 28-DEC-2007 06:11:14; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30463  
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27; 2784.7; 28-DEC-2007 06:14:18; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;30463  
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3; 1590.5; 28-DEC-2007 20:59:47; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;30472  
4; 1763.6; 28-DEC-2007 21:02:40; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;30472  
5; 1879.4; 28-DEC-2007 21:04:36; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;30472  
6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472  
7; 2194.4; 28-DEC-2007 21:09:51; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;30472  
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13; 3918.9; 28-DEC-2007 21:38:35; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;30472  
14; 4413.5; 28-DEC-2007 21:46:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30472  
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17; 5172.5; 28-DEC-2007 21:59:29; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;30472  
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27; 4876.4; 28-DEC-2007 23:35:09; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30473
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29; 5325.4; 28-DEC-2007 23:42:38; Dark ; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;30473
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4; -1500.7; 28-DEC-2007 06:43:28; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;30463
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13; 382.0; 28-DEC-2007 07:14:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30464
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 28; 7004.3; 29-DEC-2007 18:37:12; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30484

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