

# GOMOS Daily Report 03-FEB-2008

## 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	07FEB2008 13:17:13
Data source version	GOMOS/5.00
Start time of products	03-02-2008 (03FEB2008 00:00:00)
Stop time of products	04-02-2008 (04FEB2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	77
Nb of prods with errors	0

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

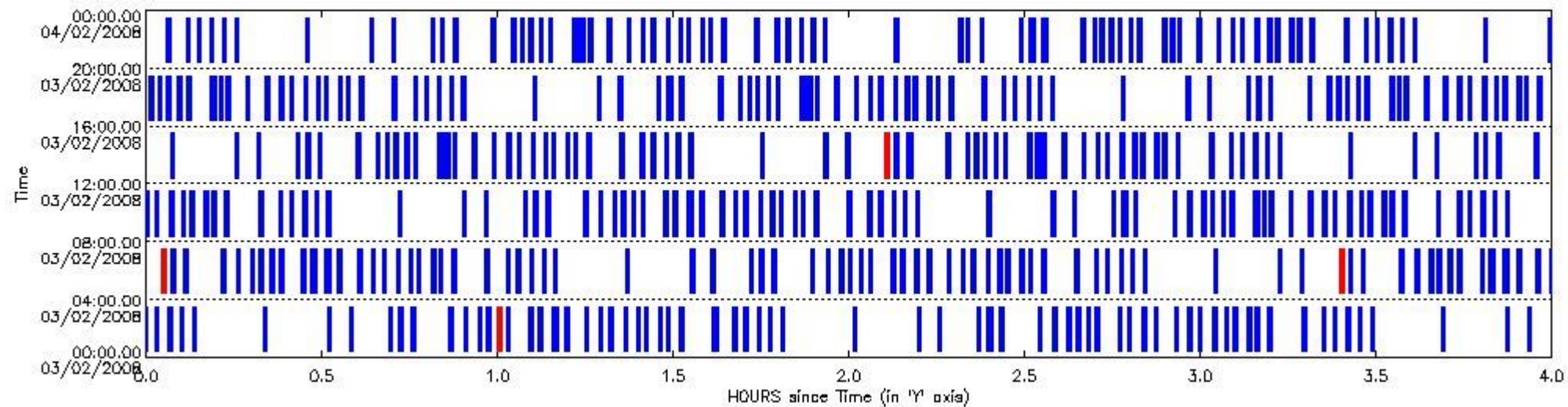
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
03-FEB-2008 00:59:54	AlpAra	147	30989
03-FEB-2008 04:02:30	17ZetAql	168	30991
03-FEB-2008 07:23:42	17ZetAql	168	30993
03-FEB-2008 14:06:07	17ZetAql	168	30997

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

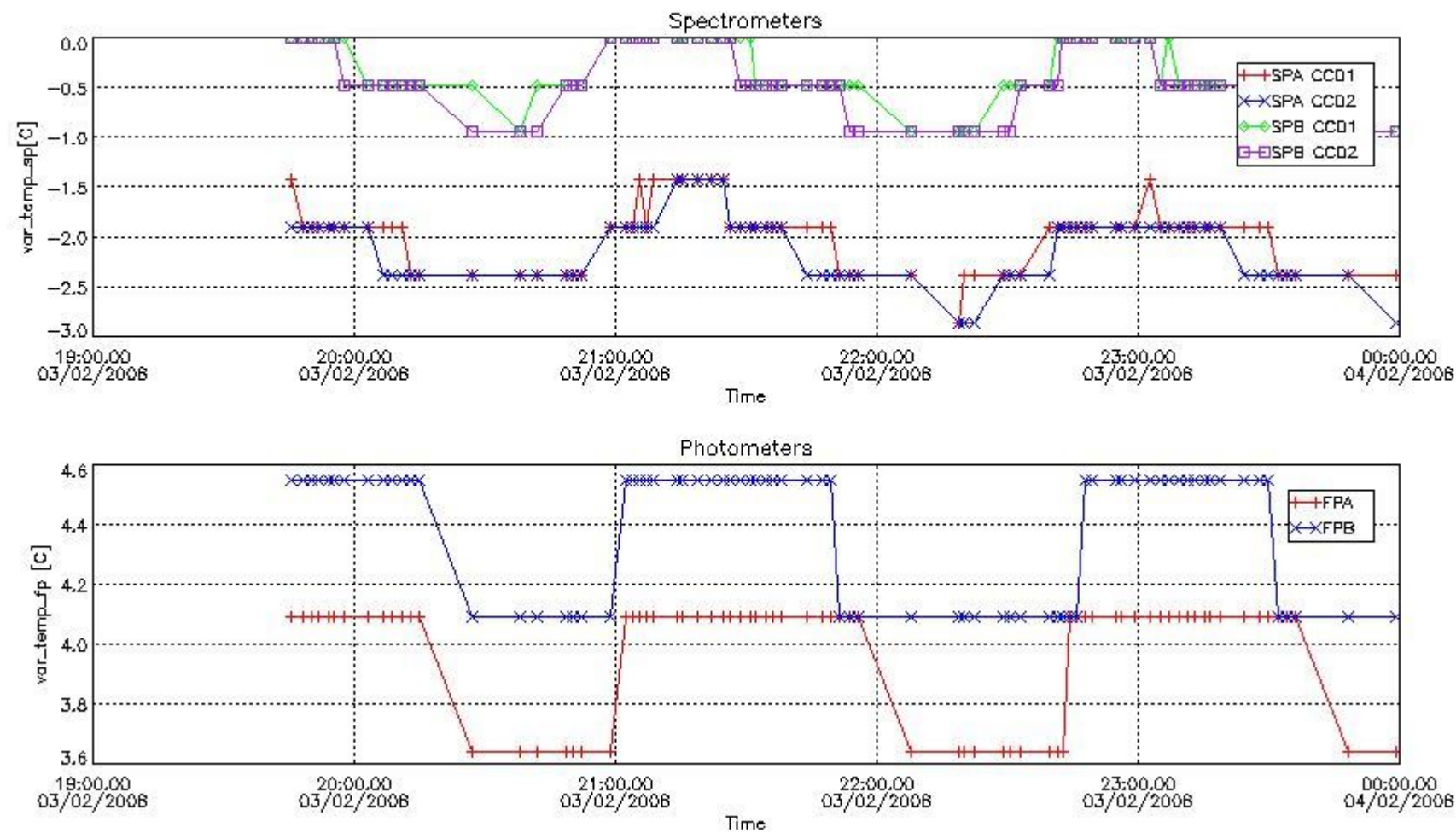
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080203_194540_000000412065_00386_31001_6185.N1	03-FEB-2008 19:45:40	Dark	41.000	46	Del Vel	1.9540	10600.	82	31001	No
2	GOM_TRA_1PNPDE20080203_194810_000000412065_00386_31001_6186.N1	03-FEB-2008 19:48:10	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	31001	No
3	GOM_TRA_1PNPDE20080203_195015_000000392065_00386_31001_6187.N1	03-FEB-2008 19:50:15	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	31001	No
4	GOM_TRA_1PNPDE20080203_195135_000000442065_00386_31001_6188.N1	03-FEB-2008 19:51:35	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	31001	No
5	GOM_TRA_1PNPDE20080203_195402_000000422065_00386_31001_6189.N1	03-FEB-2008 19:54:02	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	31001	No
6	GOM_TRA_1PNPDE20080203_195524_000000382065_00386_31001_6172.N1	03-FEB-2008 19:55:24	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	31001	No
7	GOM_TRA_1PNPDE20080203_195734_000000472065_00386_31001_6191.N1	03-FEB-2008 19:57:34	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	31001	No

8	GOM_TRA_1PNPDE20080203_200316_000000502065_00386_31001_6192.N1	03-FEB-2008 20:03:16	Twilight	50.000	8	10Alp CMI	0.40000	6500.0	100	31001	No
9	GOM_TRA_1PNPDE20080203_200647_000000382065_00386_31001_6193.N1	03-FEB-2008 20:06:47	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	31001	No
10	GOM_TRA_1PNPDE20080203_200839_000000402065_00386_31001_6194.N1	03-FEB-2008 20:08:39	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	31001	No
11	GOM_TRA_1PNPDE20080203_201055_000000382065_00386_31001_6195.N1	03-FEB-2008 20:10:55	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	31001	No
12	GOM_TRA_1PNPDE20080203_201258_000000342065_00386_31001_6196.N1	03-FEB-2008 20:12:58	Bright	34.000	107	37The Aur	2.6490	11000.	68	31001	No
13	GOM_TRA_1PNPDE20080203_201502_000000362065_00386_31001_6197.N1	03-FEB-2008 20:15:02	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	31001	No
14	GOM_TRA_1PNPDE20080203_202710_000000382065_00386_31001_6198.N1	03-FEB-2008 20:27:10	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	31001	No
15	GOM_TRA_1PNPDE20080203_203808_000000382065_00386_31001_6199.N1	03-FEB-2008 20:38:08	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	31001	No
16	GOM_TRA_1PNPDE20080203_204151_000000362065_00386_31001_6200.N1	03-FEB-2008 20:41:51	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	31001	No
17	GOM_TRA_1PNPDE20080203_204832_000000332065_00386_31001_6201.N1	03-FEB-2008 20:48:32	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	31001	No
18	GOM_TRA_1PNPDE20080203_205009_000000382065_00386_31001_6202.N1	03-FEB-2008 20:50:09	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	31001	No
19	GOM_TRA_1PNPDE20080203_205218_000000552065_00386_31001_6203.N1	03-FEB-2008 20:52:18	Bright	54.500	126	60Bet Oph	2.7700	4250.0	109	31001	No
20	GOM_TRA_1PNPDE20080203_205853_000000422065_00386_31001_6603.N1	03-FEB-2008 20:58:53	Twilight	42.000	86	35Eta Oph	2.4300	10200.	84	31001	No
21	GOM_TRA_1PNPDE20080203_210216_000000442065_00386_31001_6604.N1	03-FEB-2008 21:02:16	Twilight	44.000	38	20Eps Sgr	1.8360	11000.	88	31001	No
22	GOM_TRA_1PNPDE20080203_210351_000000402065_00386_31001_6599.N1	03-FEB-2008 21:03:51	Dark	40.000	25	35Lam Sco	1.6200	28000.	80	31001	No
23	GOM_TRA_1PNPDE20080203_210518_000000412065_00386_31001_6600.N1	03-FEB-2008 21:05:18	Dark	41.000	40	The Sco	1.8590	7100.0	82	31001	No
24	GOM_TRA_1PNPDE20080203_210710_000000382065_00386_31001_6607.N1	03-FEB-2008 21:07:10	Dark	37.500	147	Alp Ara	2.8770	26000.	75	31001	No
25	GOM_TRA_1PNPDE20080203_210843_000000402065_00386_31001_6608.N1	03-FEB-2008 21:08:43	Dark	40.000	141	Bet Ara	2.8400	4600.0	80	31001	No
26	GOM_TRA_1PNPDE20080203_211411_000000422065_00387_31002_6609.N1	03-FEB-2008 21:14:11	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	31002	No
27	GOM_TRA_1PNPDE20080203_211525_000000432065_00387_31002_6604.N1	03-FEB-2008 21:15:25	Dark	43.000	10	Bet Cen	0.61000	28000.	86	31002	No
28	GOM_TRA_1PNPDE20080203_211846_000000422065_00387_31002_6611.N1	03-FEB-2008 21:18:46	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	31002	No
29	GOM_TRA_1PNPDE20080203_212208_000000392065_00387_31002_6606.N1	03-FEB-2008 21:22:08	Dark	39.000	29	Bet Car	1.6720	10200.	78	31002	No
30	GOM_TRA_1PNPDE20080203_212432_000000382065_00387_31002_6613.N1	03-FEB-2008 21:24:32	Dark	38.000	71	lot Car	2.2460	7700.0	76	31002	No
31	GOM_TRA_1PNPDE20080203_212616_000000412065_00387_31002_6608.N1	03-FEB-2008 21:26:16	Dark	40.500	46	Del Vel	1.9540	10600.	81	31002	No
32	GOM_TRA_1PNPDE20080203_212846_000000412065_00387_31002_6609.N1	03-FEB-2008 21:28:46	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	31002	No
33	GOM_TRA_1PNPDE20080203_213051_000000402065_00387_31002_6610.N1	03-FEB-2008 21:30:51	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	31002	No
34	GOM_TRA_1PNPDE20080203_213212_000000422065_00387_31002_6611.N1	03-FEB-2008 21:32:12	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	31002	No
35	GOM_TRA_1PNPDE20080203_213438_000000422065_00387_31002_6618.N1	03-FEB-2008 21:34:38	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	31002	No
36	GOM_TRA_1PNPDE20080203_213600_000000382065_00387_31002_6619.N1	03-FEB-2008 21:36:00	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	31002	No
37	GOM_TRA_1PNPDE20080203_213810_000000472065_00387_31002_6620.N1	03-FEB-2008 21:38:10	Straylight	47.000	1	9Alp CMa	-1.4400	11000.	94	31002	No
38	GOM_TRA_1PNPDE20080203_214352_000000502065_00387_31002_6615.N1	03-FEB-2008 21:43:52	Twilight	50.000	8	10Alp CMI	0.40000	6500.0	100	31002	No
39	GOM_TRA_1PNPDE20080203_214723_000000392065_00387_31002_6622.N1	03-FEB-2008 21:47:23	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	31002	No
40	GOM_TRA_1PNPDE20080203_214915_000000392065_00387_31002_6623.N1	03-FEB-2008 21:49:15	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	31002	No
41	GOM_TRA_1PNPDE20080203_215131_000000382065_00387_31002_6624.N1	03-FEB-2008 21:51:31	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	31002	No
42	GOM_TRA_1PNPDE20080203_215334_000000372065_00387_31002_6619.N1	03-FEB-2008 21:53:34	Bright	36.500	107	37The Aur	2.6490	11000.	73	31002	No
43	GOM_TRA_1PNPDE20080203_215538_000000352065_00387_31002_6626.N1	03-FEB-2008 21:55:38	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	31002	No
44	GOM_TRA_1PNPDE20080203_220746_000000372065_00387_31002_6627.N1	03-FEB-2008 22:07:46	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	31002	No
45	GOM_TRA_1PNPDE20080203_221844_000000382065_00387_31002_6628.N1	03-FEB-2008 22:18:44	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	31002	No
46	GOM_TRA_1PNPDE20080203_222002_000000352065_00387_31002_6629.N1	03-FEB-2008 22:20:02	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	31002	No
47	GOM_TRA_1PNPDE20080203_222227_000000362065_00387_31002_6630.N1	03-FEB-2008 22:22:27	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	31002	No
48	GOM_TRA_1PNPDE20080203_222908_000000332065_00387_31002_6631.N1	03-FEB-2008 22:29:08	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	31002	No
49	GOM_TRA_1PNPDE20080203_223046_000000562065_00387_31002_6632.N1	03-FEB-2008 22:30:46	Bright	56.000	59	55Alp Oph	2.0800	8900.0	112	31002	No
50	GOM_TRA_1PNPDE20080203_223255_000000552065_00387_31002_6633.N1	03-FEB-2008 22:32:55	Bright	55.000	126	60Bet Oph	2.7700	4250.0	110	31002	No
51	GOM_TRA_1PNPDE20080203_223930_000000462065_00387_31002_7552.N1	03-FEB-2008 22:39:30	Twilight	45.500	86	35Eta Oph	2.4300	10200.	91	31002	No
52	GOM_TRA_1PNPDE20080203_224140_000000392065_00387_31002_7077.N1	03-FEB-2008 22:41:40	Twilight	39.000	116	19Del Sgr	2.7000	4100.0	78	31002	No
53	GOM_TRA_1PNPDE20080203_224252_000000432065_00387_31002_7554.N1	03-FEB-2008 22:42:52	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	31002	No
54	GOM_TRA_1PNPDE20080203_224427_000000402065_00387_31002_7555.N1	03-FEB-2008 22:44:27	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	31002	No
55	GOM_TRA_1PNPDE20080203_224554_000000422065_00387_31002_7556.N1	03-FEB-2008 22:45:54	Dark	42.000	40	The Sco	1.8590	7100.0	84	31002	No
56	GOM_TRA_1PNPDE20080203_224746_000000362065_00387_31002_7557.N1	03-FEB-2008 22:47:46	Dark	36.000	147	Alp Ara	2.8770	26000.	72	31002	No
57	GOM_TRA_1PNPDE20080203_224919_000000422065_00387_31002_7558.N1	03-FEB-2008 22:49:19	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	31002	No
58	GOM_TRA_1PNPDE20080203_225448_000000512065_00388_31003_7559.N1	03-FEB-2008 22:54:48	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	31003	No
59	GOM_TRA_1PNPDE20080203_225601_000000442065_00388_31003_7560.N1	03-FEB-2008 22:56:01	Dark	43.500	10	Bet Cen	0.61000	28000.	87	31003	No
60	GOM_TRA_1PNPDE20080203_225923_000000432065_00388_31003_7561.N1	03-FEB-2008 22:59:23	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	31003	No
61	GOM_TRA_1PNPDE20080203_230244_000000382065_00388_31003_7086.N1	03-FEB-2008 23:02:44	Dark	37.500	29	Bet Car	1.6720	10200.	75	31003	No
62	GOM_TRA_1PNPDE20080203_230508_000000392065_00388_31003_7563.N1	03-FEB-2008 23:05:08	Dark	38.500	71	lot Car	2.2460	7700.0	77	31003	No
63	GOM_TRA_1PNPDE20080203_230652_000000402065_00388_31003_7564.N1	03-FEB-2008 23:06:52	Dark	40.000	46	Del Vel	1.9540	10600.	80	31003	No
64	GOM_TRA_1PNPDE20080203_230922_000000412065_00388_31003_7565.N1	03-FEB-2008 23:09:22	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	31003	No
65	GOM_TRA_1PNPDE20080203_231127_000000402065_00388_31003_7566.N1	03-FEB-2008 23:11:27	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	31003	No
66	GOM_TRA_1PNPDE20080203_231248_000000412065_00388_31003_7567.N1	03-FEB-2008 23:12:48	Straylight	40.500	117	Pi Pup	2.7060	3800.0	81	31003	No



67	GOM_TRA_1PNPDE20080203_231514_000000412065_00388_31003_7568.N1	03-FEB-2008 23:15:14	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	31003	No
68	GOM_TRA_1PNPDE20080203_231636_000000392065_00388_31003_7569.N1	03-FEB-2008 23:16:36	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	31003	No
69	GOM_TRA_1PNPDE20080203_231846_000000462065_00388_31003_7570.N1	03-FEB-2008 23:18:46	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	31003	No
70	GOM_TRA_1PNPDE20080203_232427_000000522065_00388_31003_7571.N1	03-FEB-2008 23:24:27	Twilight_stray	52.000	8	10Alp CMi	0.40000	6500.0	104	31003	No
71	GOM_TRA_1PNPDE20080203_232759_000000382065_00388_31003_7572.N1	03-FEB-2008 23:27:59	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	31003	No
72	GOM_TRA_1PNPDE20080203_232951_000000372065_00388_31003_7097.N1	03-FEB-2008 23:29:51	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	31003	No
73	GOM_TRA_1PNPDE20080203_233206_000000382065_00388_31003_7574.N1	03-FEB-2008 23:32:06	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	31003	No
74	GOM_TRA_1PNPDE20080203_233410_000000362065_00388_31003_7099.N1	03-FEB-2008 23:34:10	Bright	36.000	107	37The Aur	2.6490	11000.	72	31003	No
75	GOM_TRA_1PNPDE20080203_233614_000000352065_00388_31003_7576.N1	03-FEB-2008 23:36:14	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	31003	No
76	GOM_TRA_1PNPDE20080203_234822_000000342065_00388_31003_7101.N1	03-FEB-2008 23:48:22	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	31003	No
77	GOM_TRA_1PNPDE20080203_235920_000000392065_00388_31003_7578.N1	03-FEB-2008 23:59:20	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	31003	No

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



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

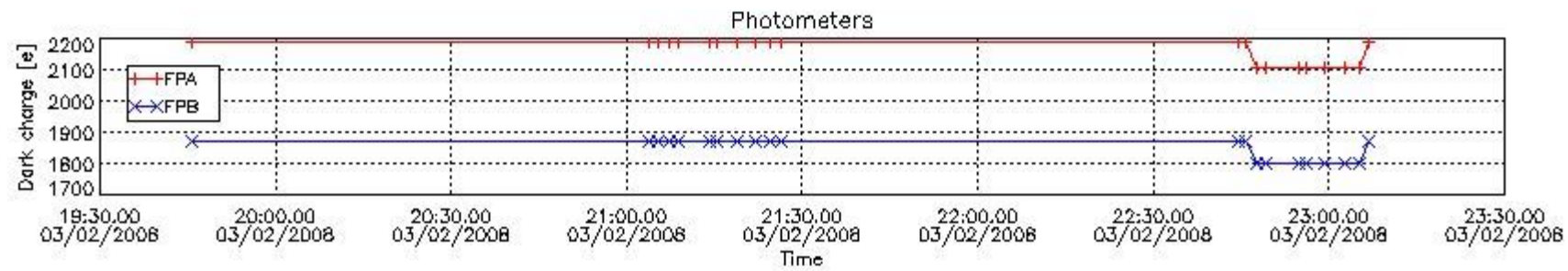
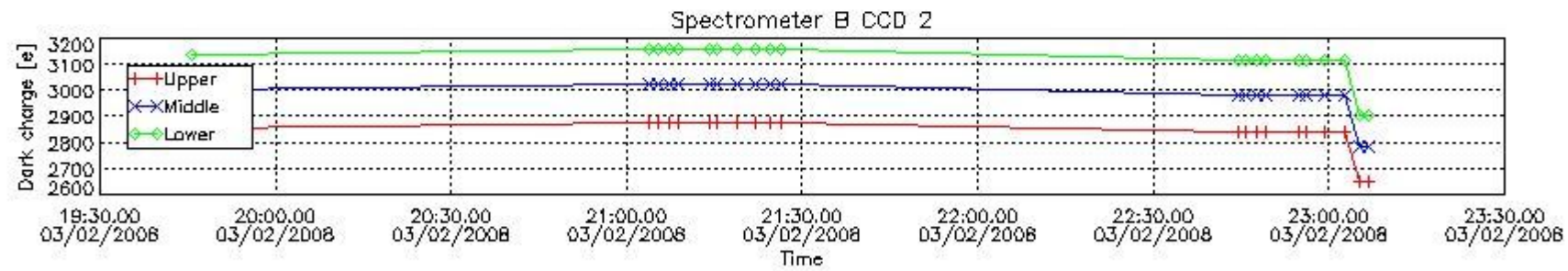
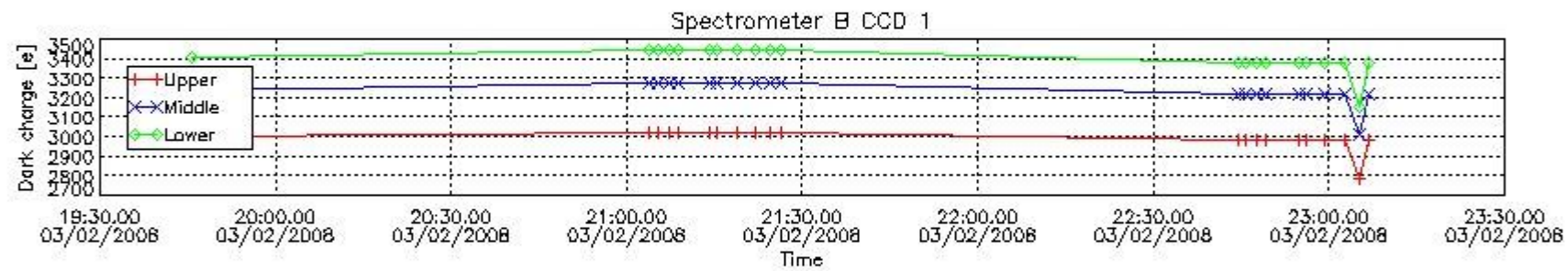
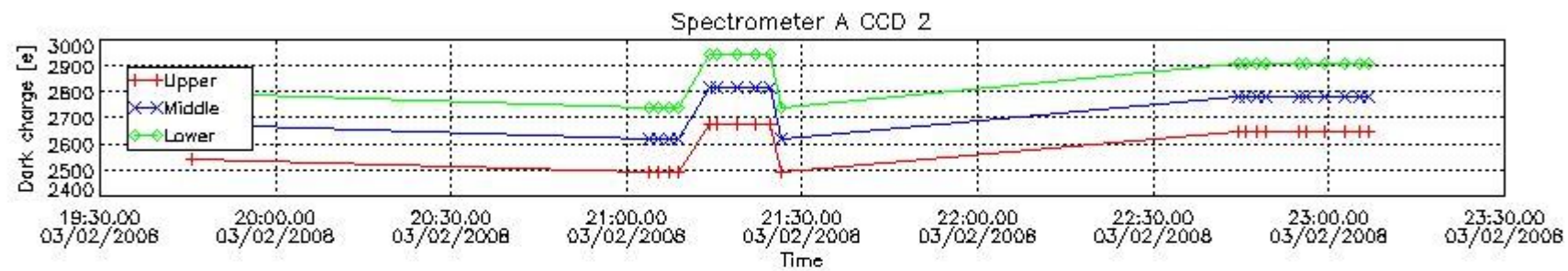
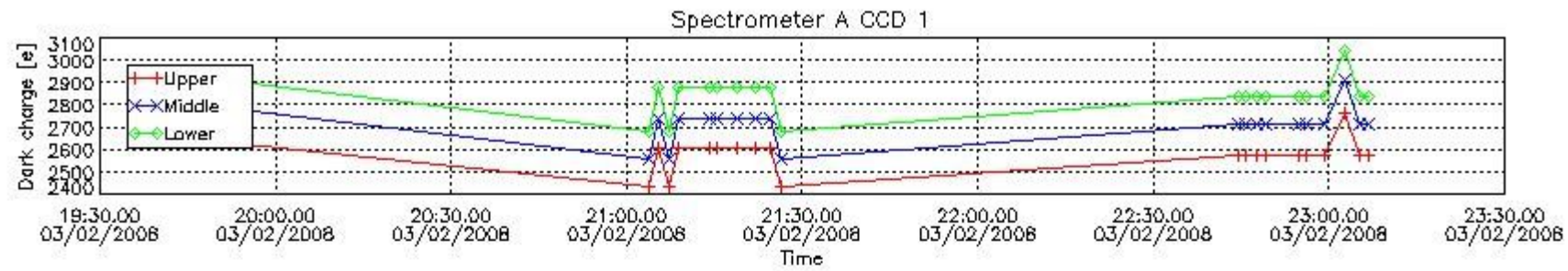
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080203_194540_000000412065_00386_31001_6185.N1	DC map used
GOM_TRA_1PNPDE20080203_194810_000000412065_00386_31001_6186.N1	DC map used
GOM_TRA_1PNPDE20080203_195015_000000392065_00386_31001_6187.N1	DC map used
GOM_TRA_1PNPDE20080203_195135_000000442065_00386_31001_6188.N1	DC map used
GOM_TRA_1PNPDE20080203_195402_000000422065_00386_31001_6189.N1	DC map used
GOM_TRA_1PNPDE20080203_195524_000000382065_00386_31001_6172.N1	DC map used
GOM_TRA_1PNPDE20080203_195734_000000472065_00386_31001_6191.N1	DC map used
GOM_TRA_1PNPDE20080203_200316_000000502065_00386_31001_6192.N1	DC map used
GOM_TRA_1PNPDE20080203_200647_000000382065_00386_31001_6193.N1	DC map used
GOM_TRA_1PNPDE20080203_200839_000000402065_00386_31001_6194.N1	DC map used
GOM_TRA_1PNPDE20080203_201055_000000382065_00386_31001_6195.N1	DC map used
GOM_TRA_1PNPDE20080203_201258_000000342065_00386_31001_6196.N1	DC map used
GOM_TRA_1PNPDE20080203_201502_000000362065_00386_31001_6197.N1	DC map used
GOM_TRA_1PNPDE20080203_202710_000000382065_00386_31001_6198.N1	DC map used
GOM_TRA_1PNPDE20080203_203808_000000382065_00386_31001_6199.N1	DC map used
GOM_TRA_1PNPDE20080203_204151_000000362065_00386_31001_6200.N1	DC map used
GOM_TRA_1PNPDE20080203_204832_000000332065_00386_31001_6201.N1	DC map used
GOM_TRA_1PNPDE20080203_205009_000000382065_00386_31001_6202.N1	DC map used
GOM_TRA_1PNPDE20080203_205218_000000552065_00386_31001_6203.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

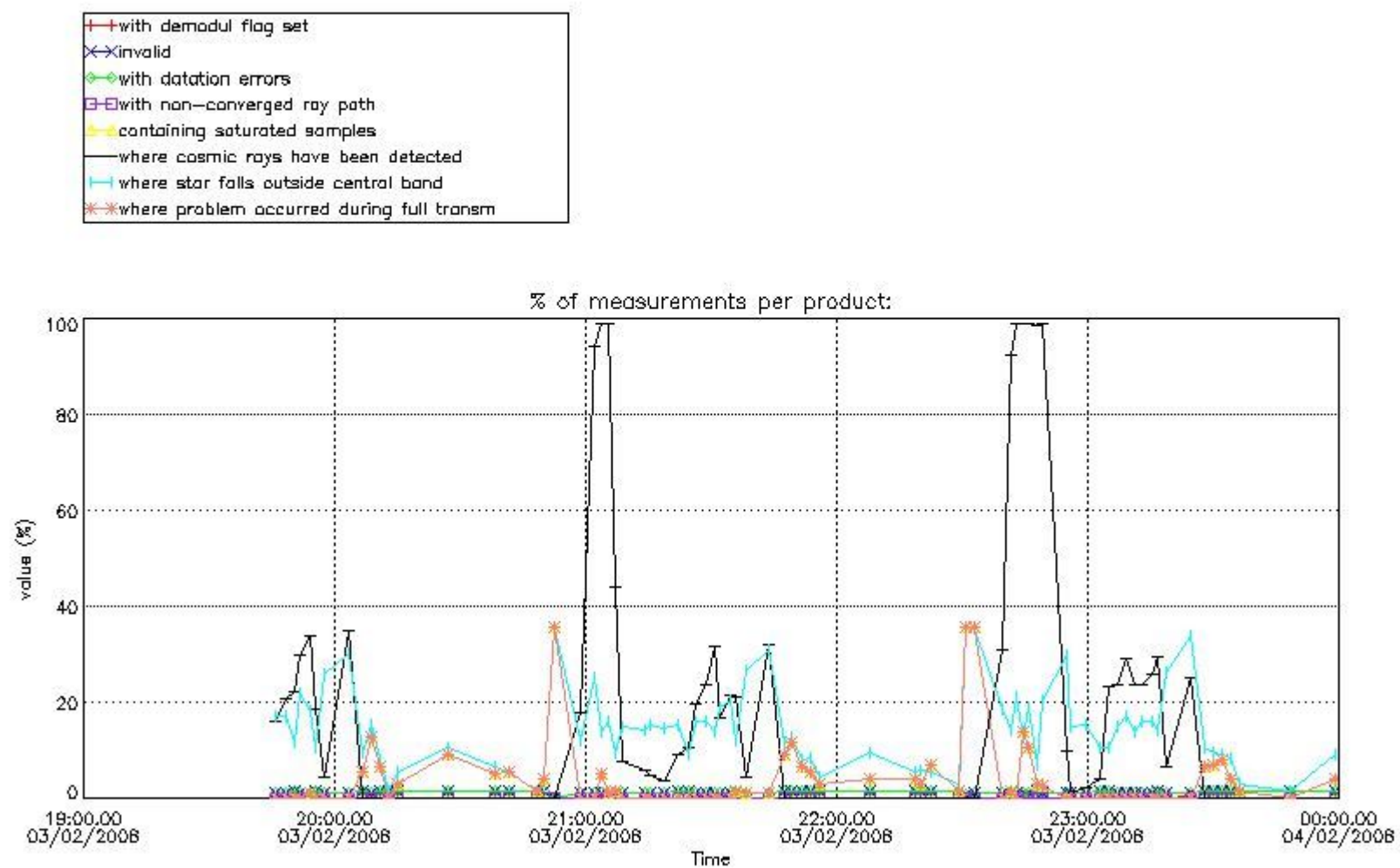
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

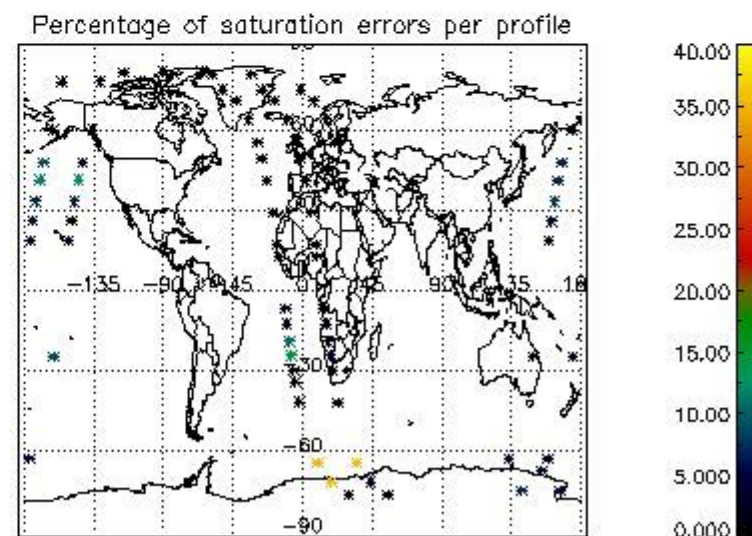
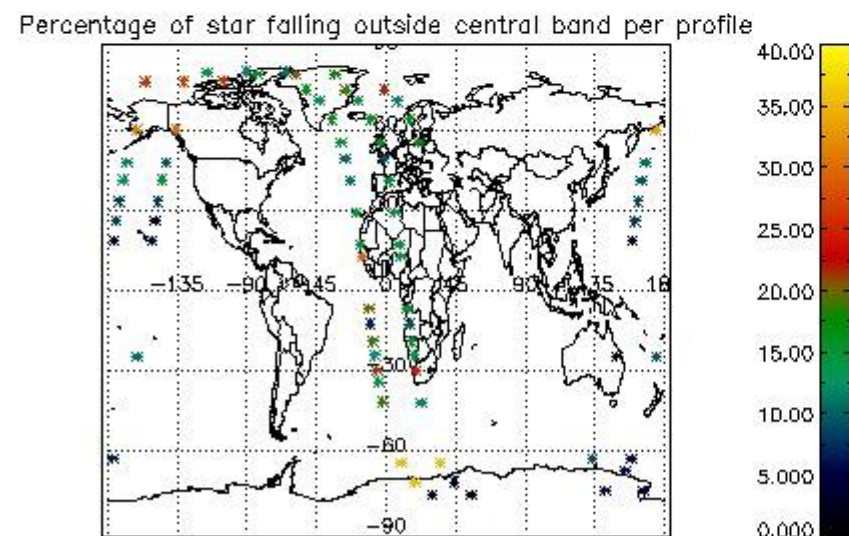
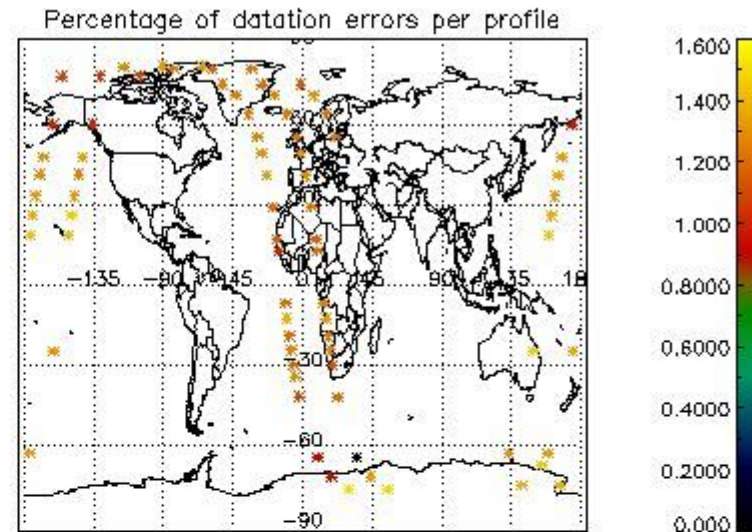
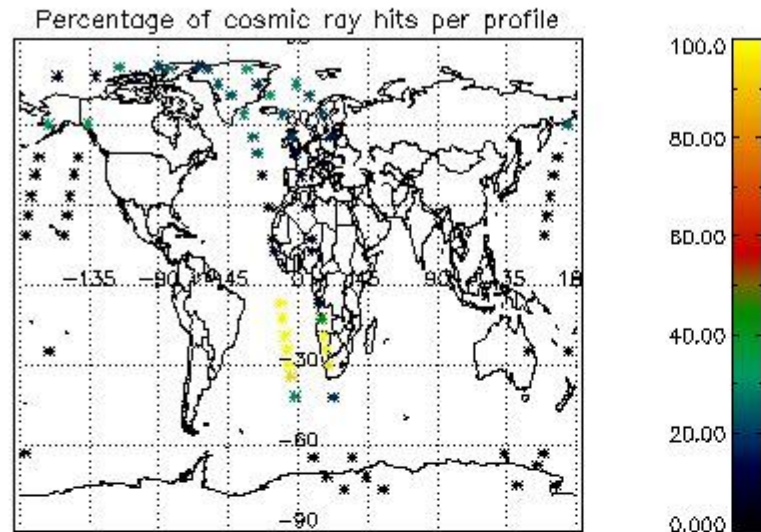


At least one measurement with demodulation flag set:	24.6753 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

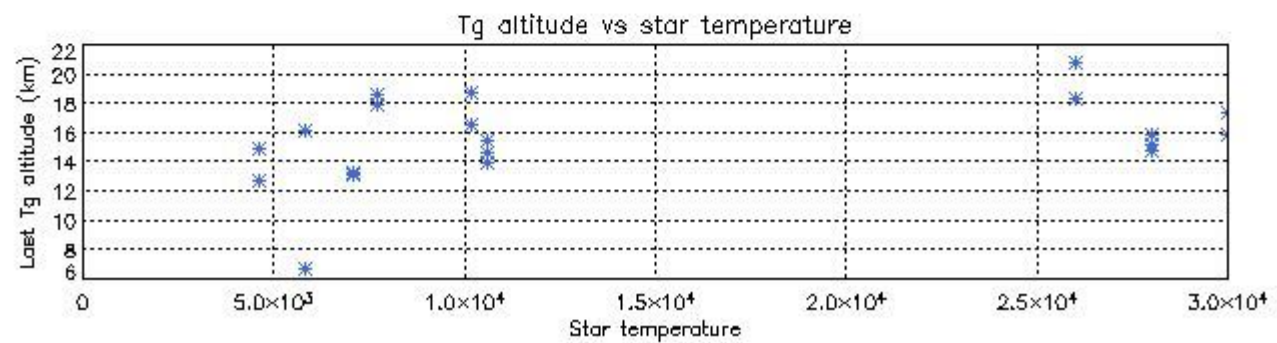
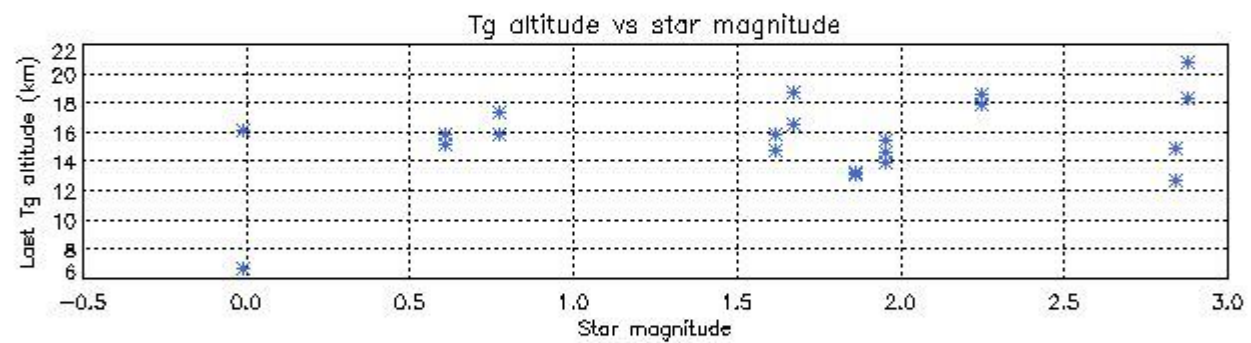
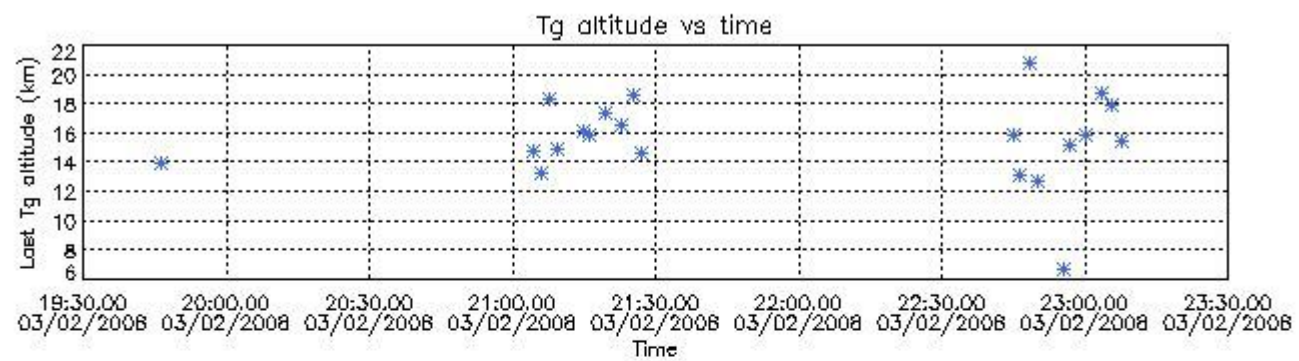
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.536	18.497	11.752
St. deviation:	2.8891	5.5469	2.7050
Maximum:	20.770	25.375	14.746
Minimum:	6.6415	4.2782	9.4839
Number of data:	21.000	30.000	3.0000

### 6.2 Plot for DARK limb products

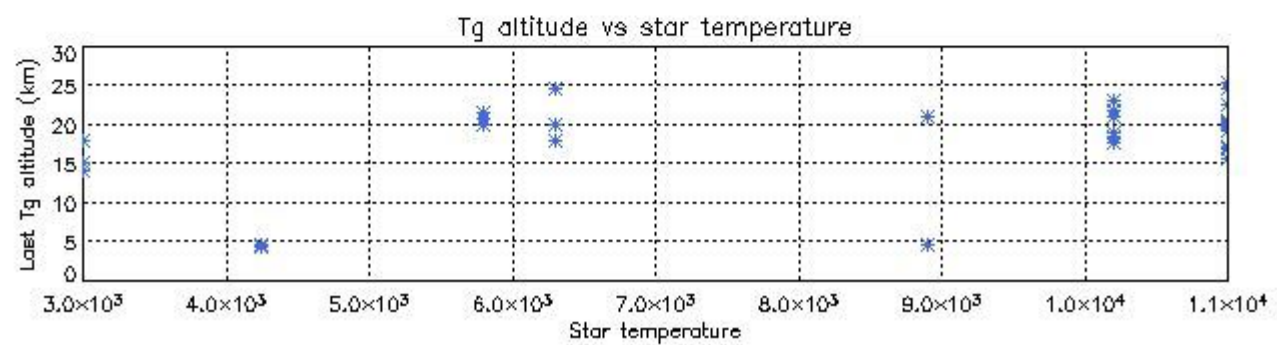
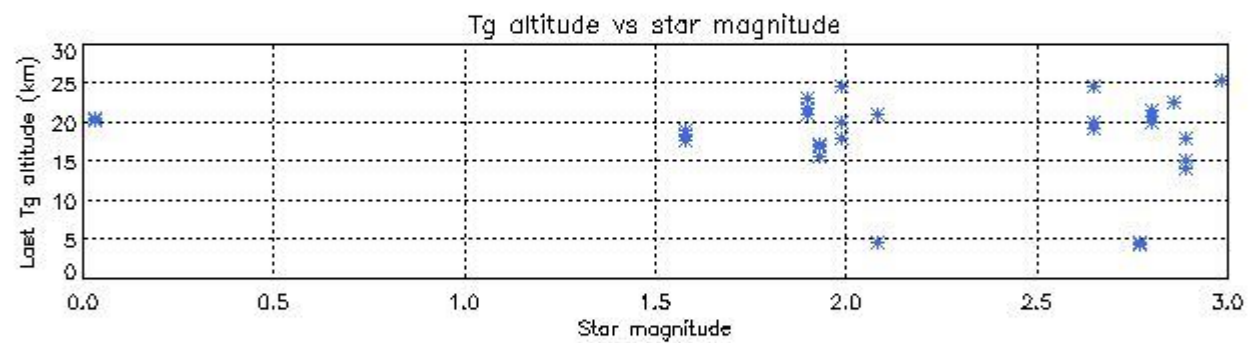
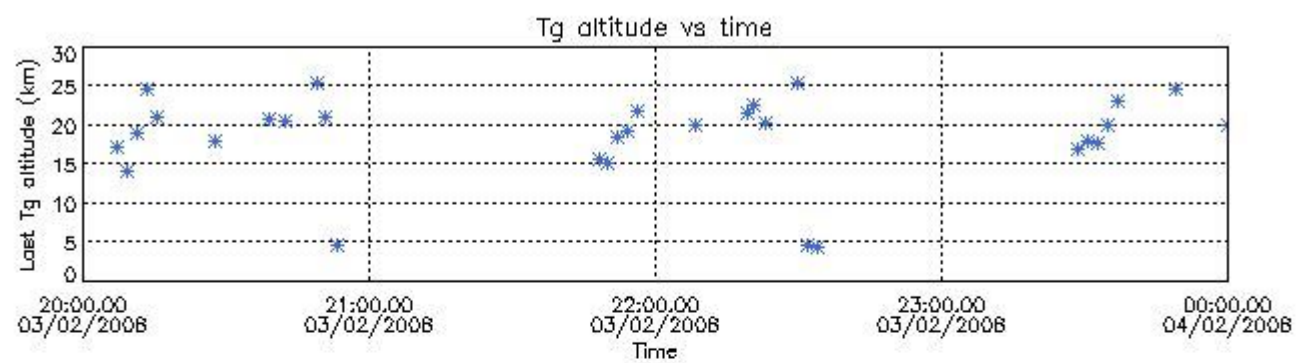


Tangent altitude at which the star is lost



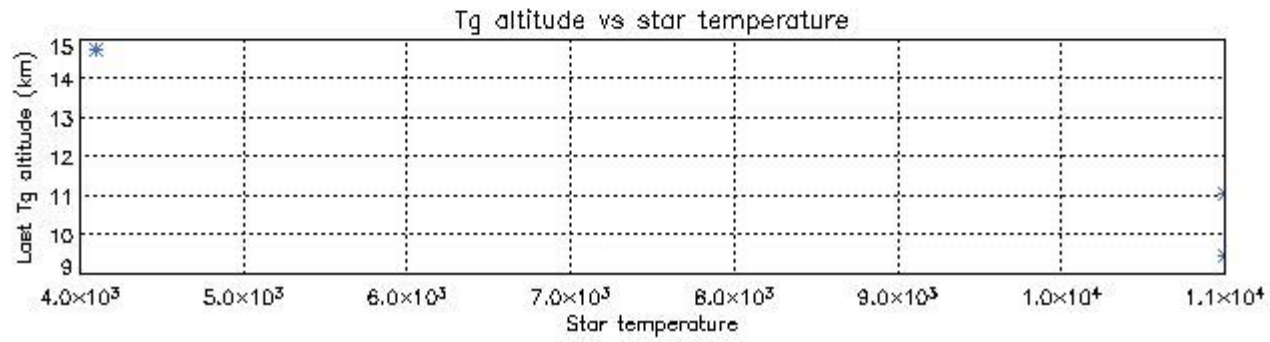
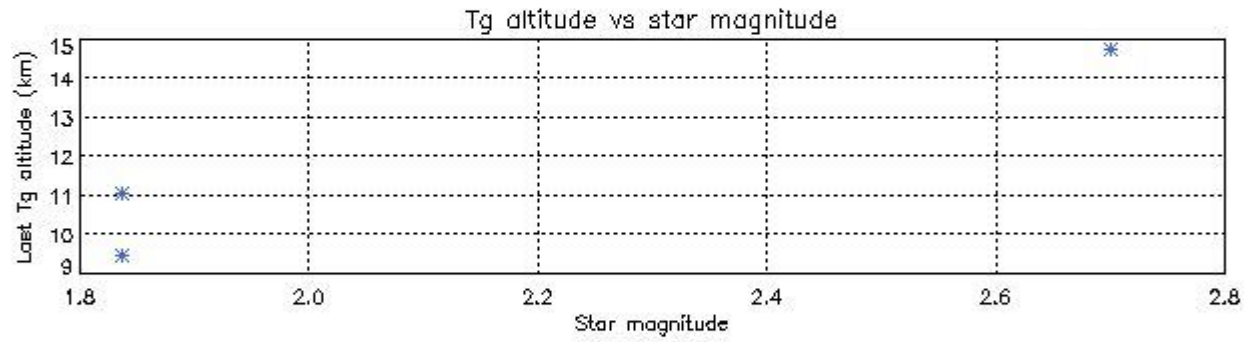
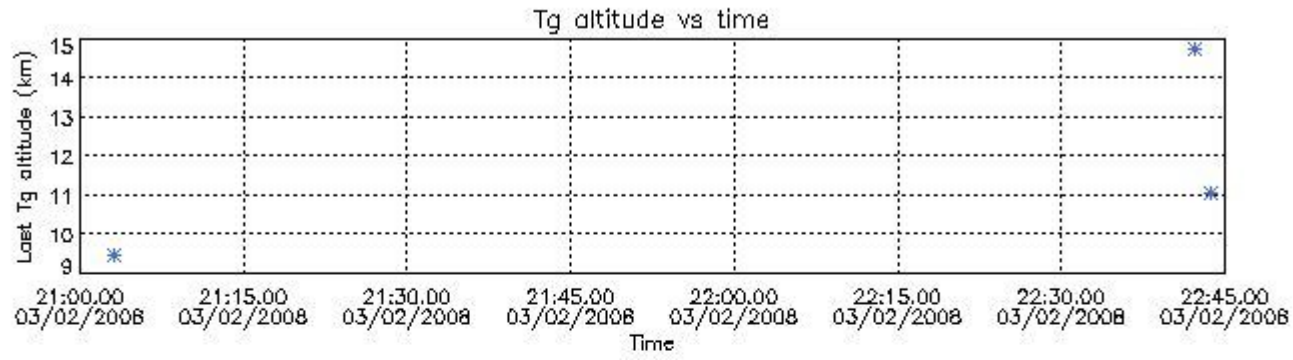
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



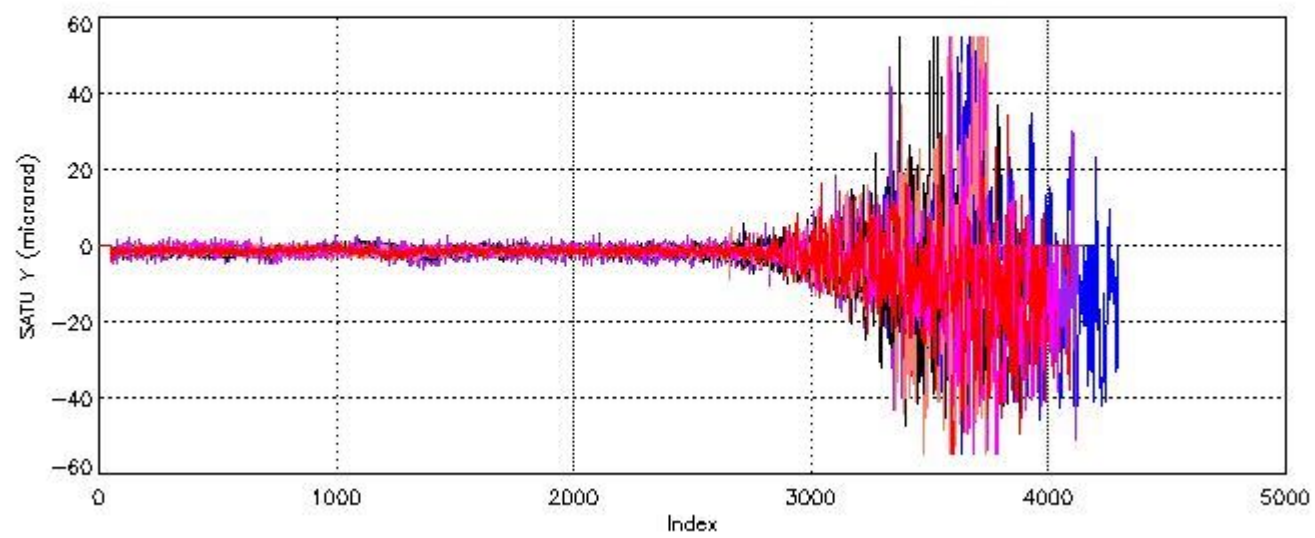
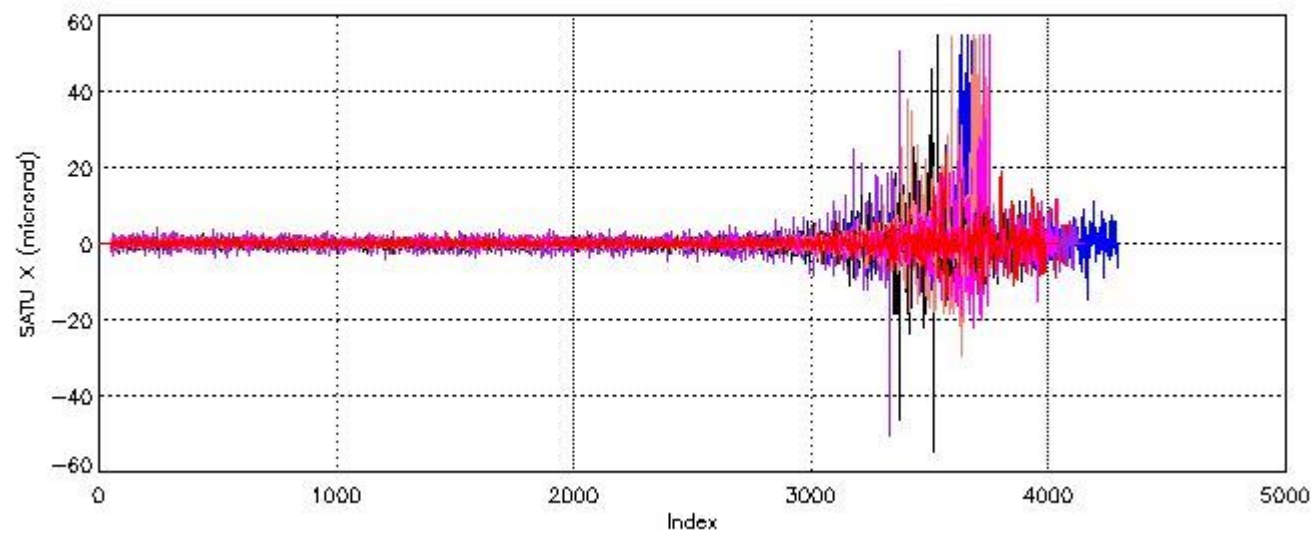
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.073573	-1.4451	-0.025016	-1.3716
St. deviation:	0.44417	0.64938	0.71783	0.93559
Maximum:	3.3000	1.7000	5.2000	4.1000
Minimum:	-3.9000	-4.6000	-5.5000	-8.0000

Number of data:	18350.	18350.	25250.	25250.
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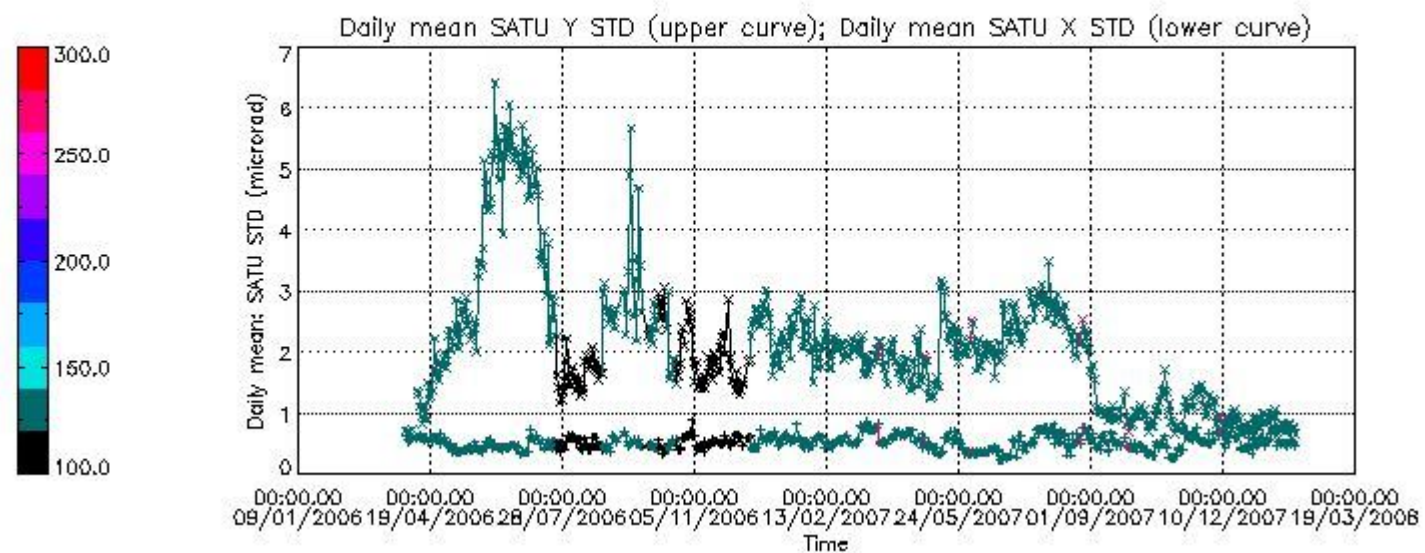
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

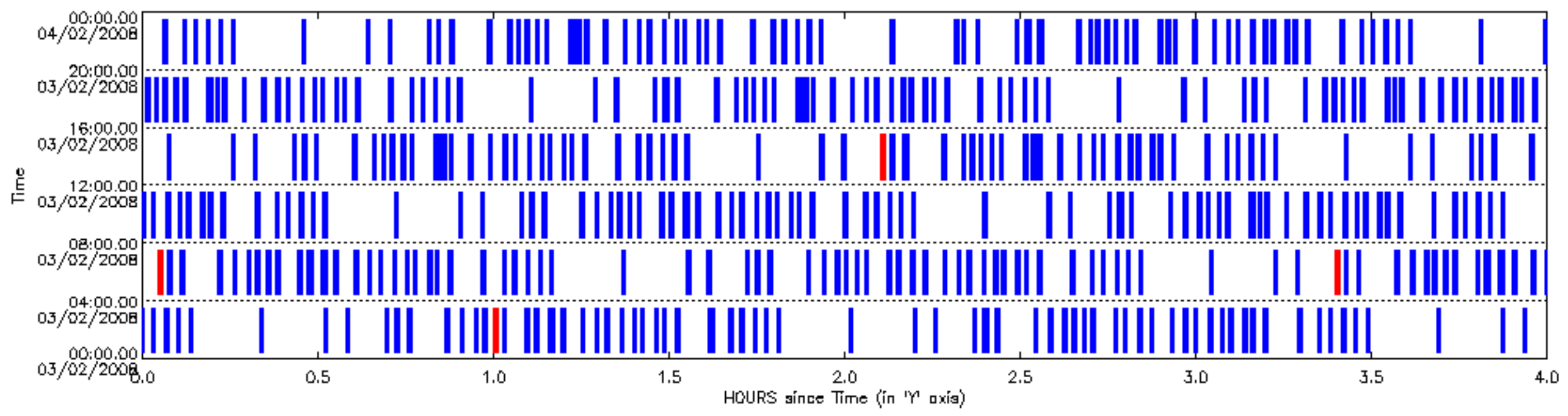
Lower curve: STD of SATU X axis



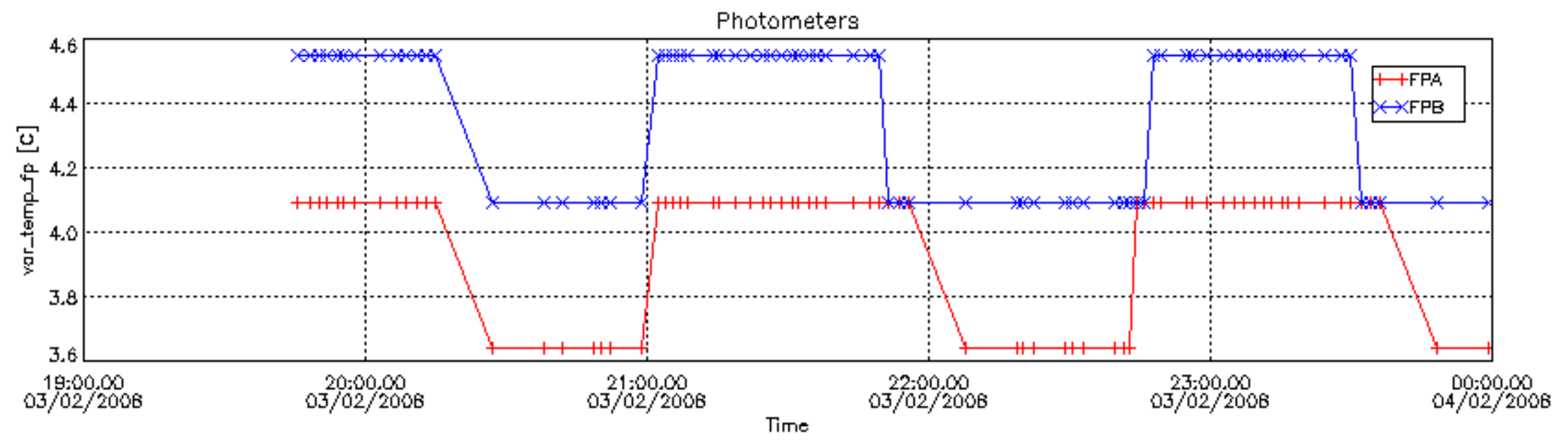
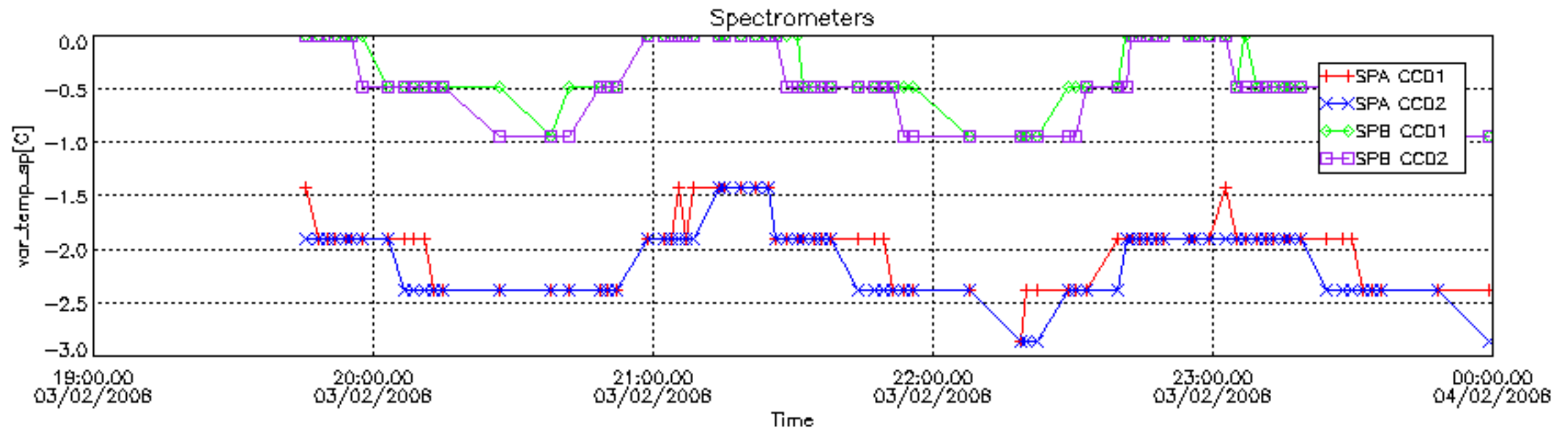
### 8. Auxiliary Data Files used for the production reported in section 2.4

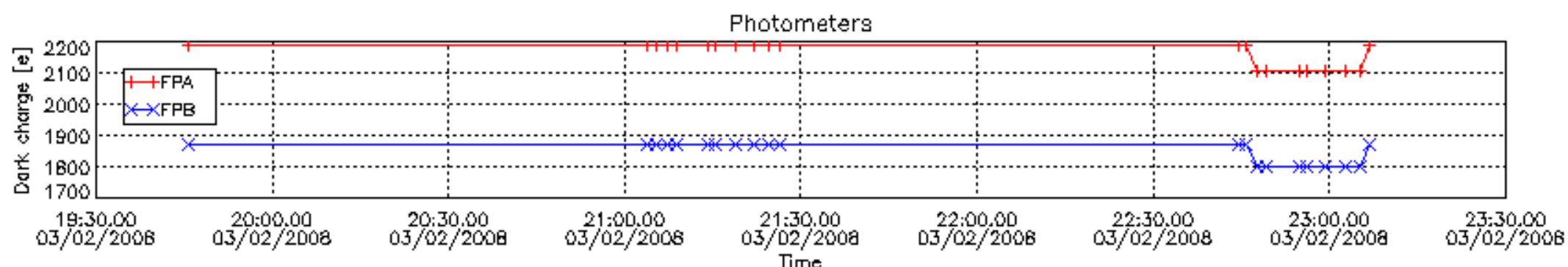
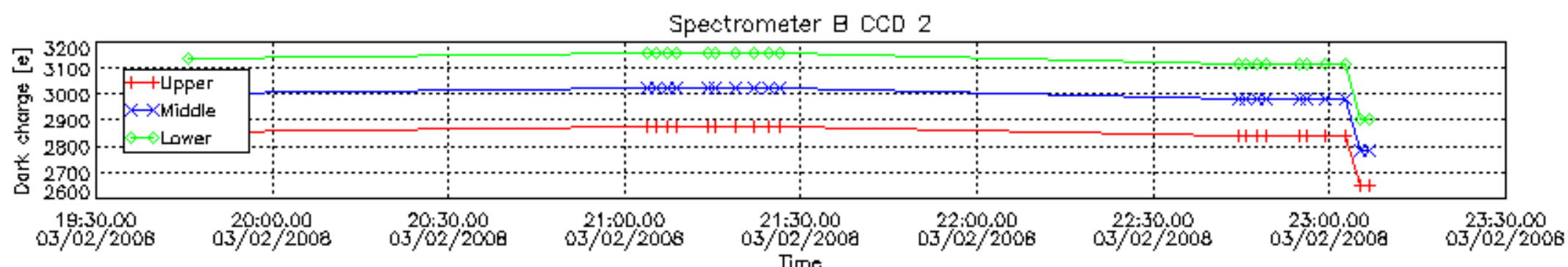
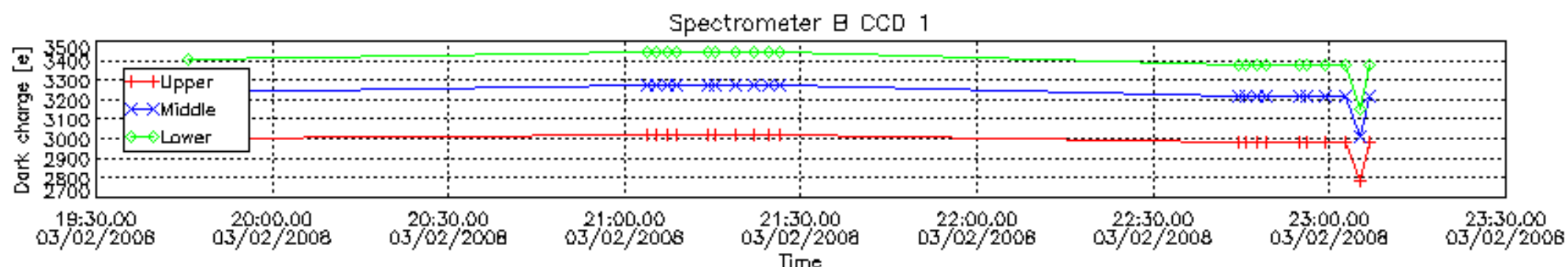
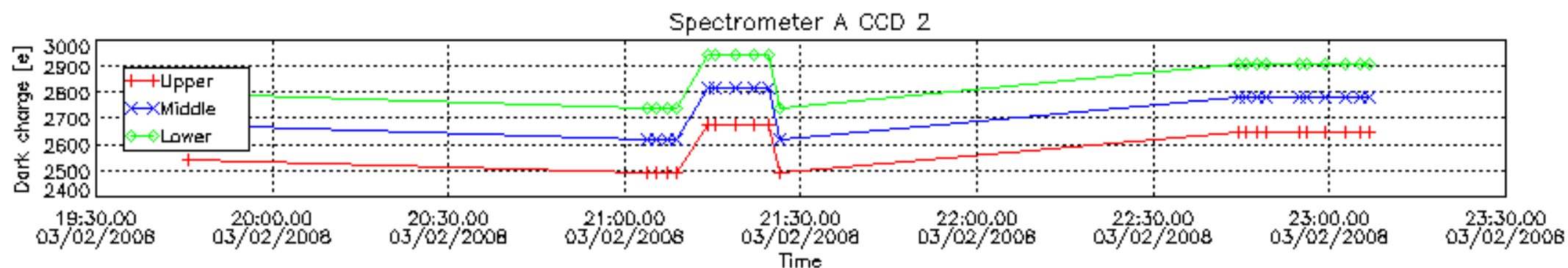
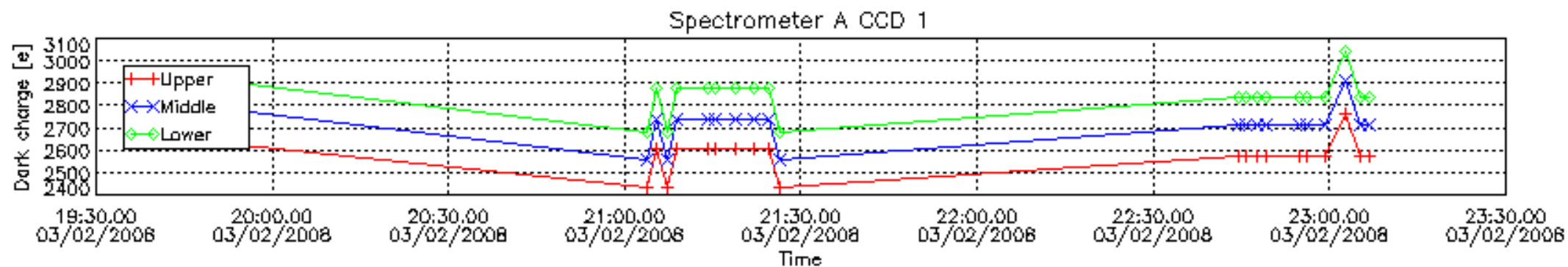
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

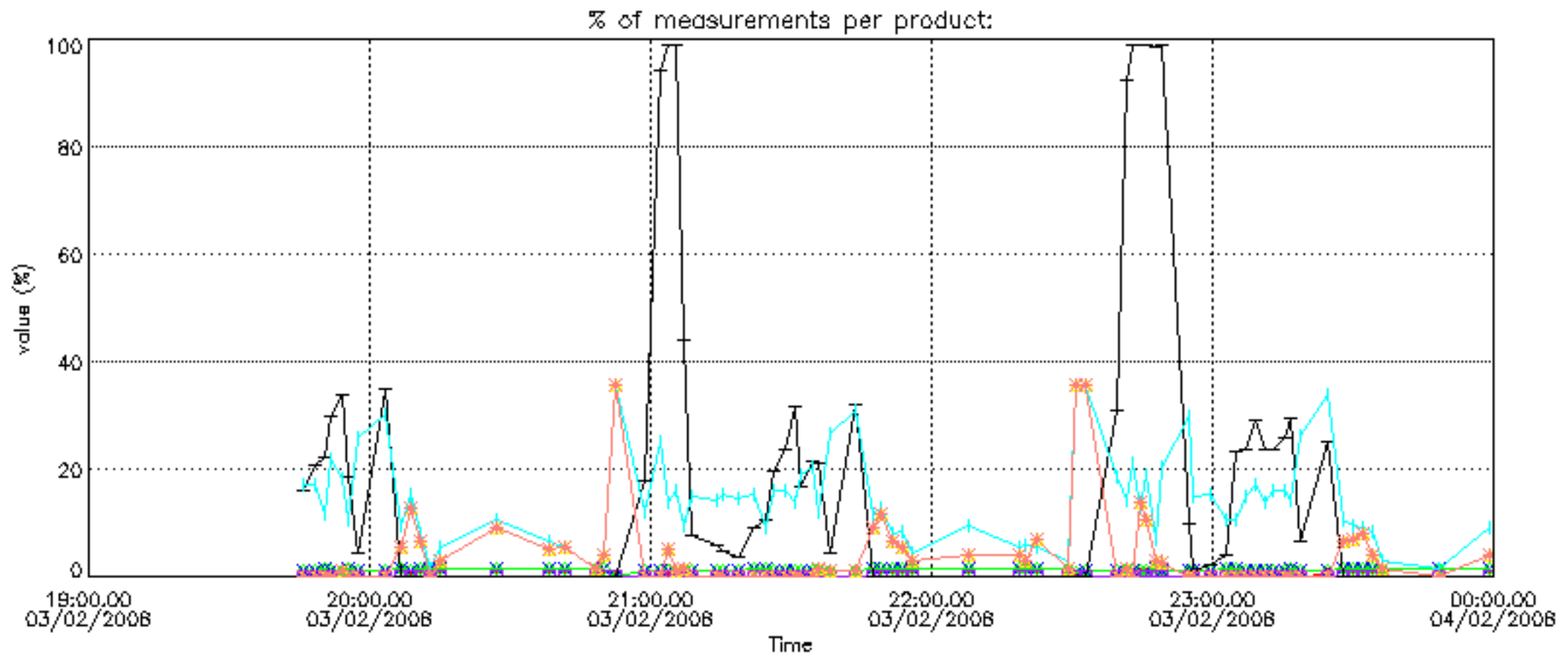
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-FEB-2008 19:45:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080128_161239_20080126_000000_20100101_000000	1	03-FEB-2008 19:45:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-FEB-2008 19:45:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-FEB-2008 19:45:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-FEB-2008 19:45:40
ECMWF_FILE	AUX_ECF_AXNECM20080203_073111_20080203_150000_20080204_030000	1	03-FEB-2008 19:45:40
ECMWF_FILE	AUX_ECF_AXNECM20080203_073111_20080203_210000_20080204_090000	51	03-FEB-2008 22:39:30
OPTIONAL_ECMWF_FILE	MISSING	1	03-FEB-2008 19:45:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080203_194331_000038252065_00386_31001_5078.N1	1	03-FEB-2008 19:45:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080203_205236_000060572065_00386_31001_5079.N1	20	03-FEB-2008 20:58:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080203_223851_000057382065_00387_31002_5080.N1	51	03-FEB-2008 22:39:30





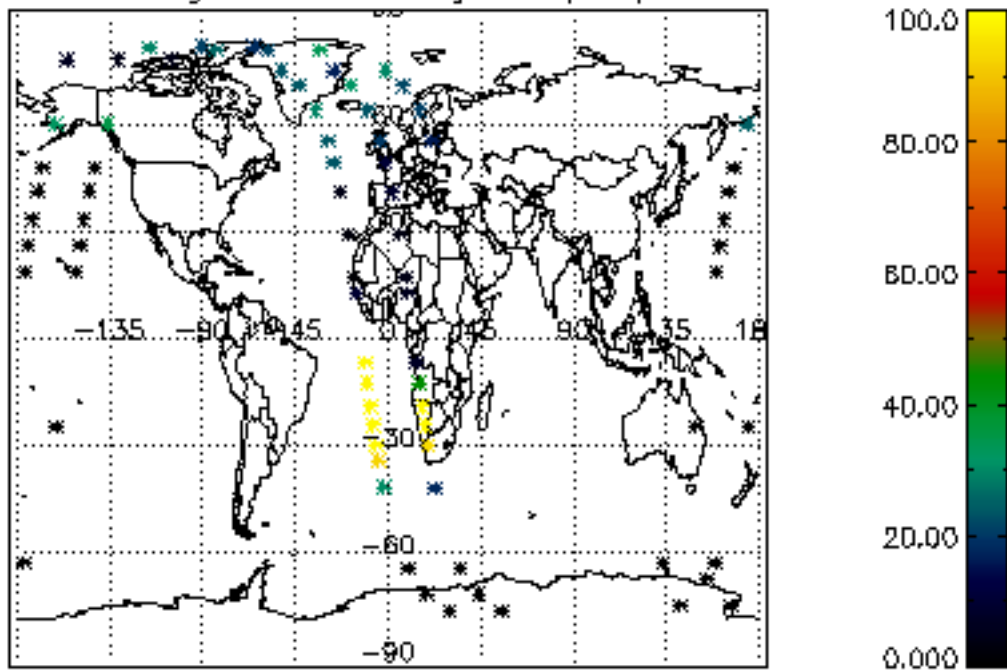




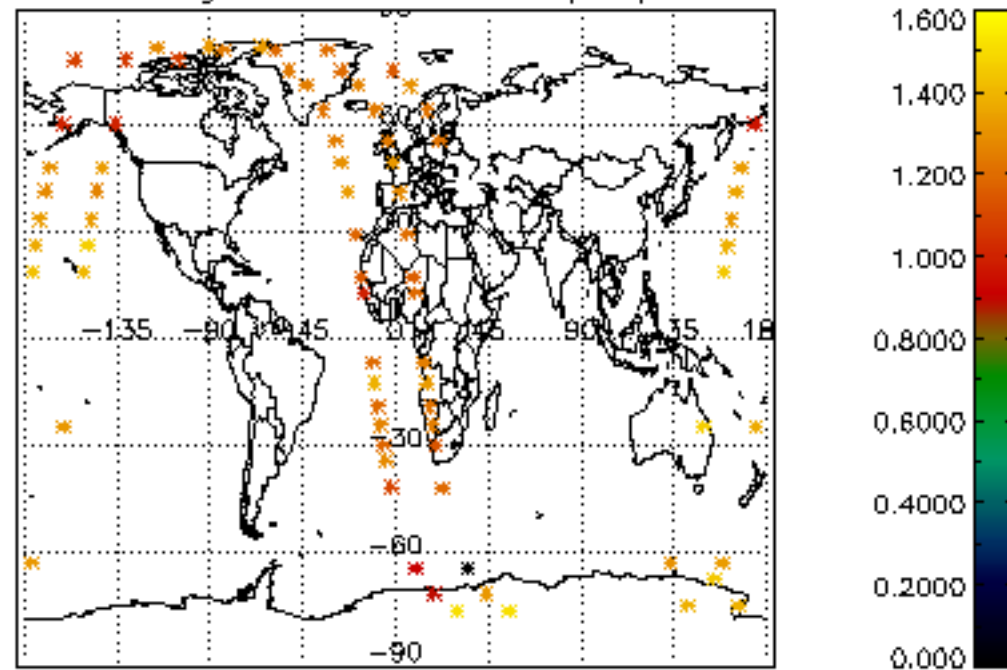




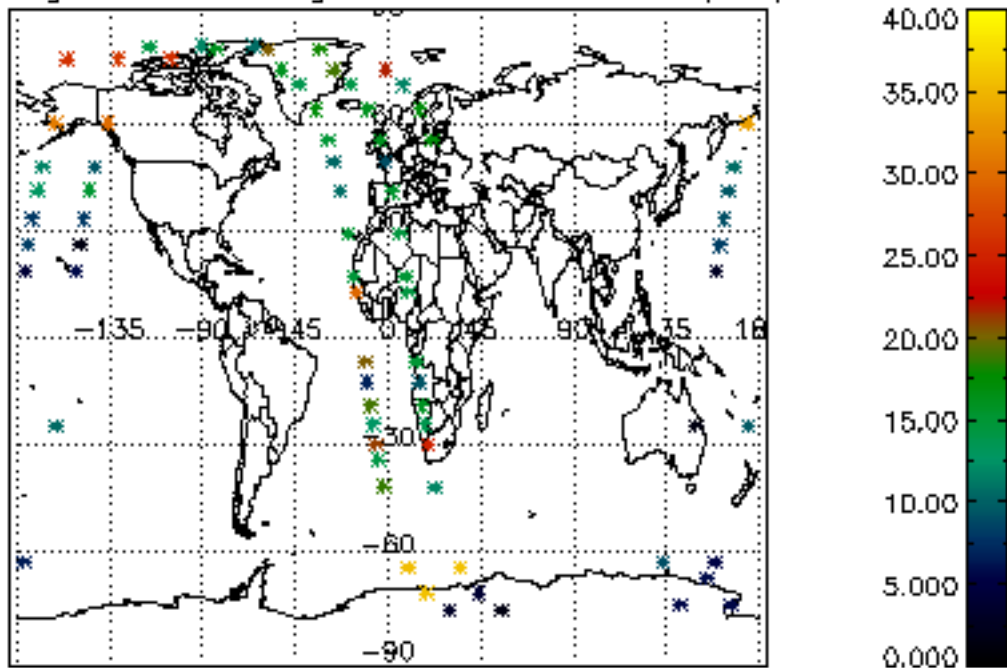
Percentage of cosmic ray hits per profile



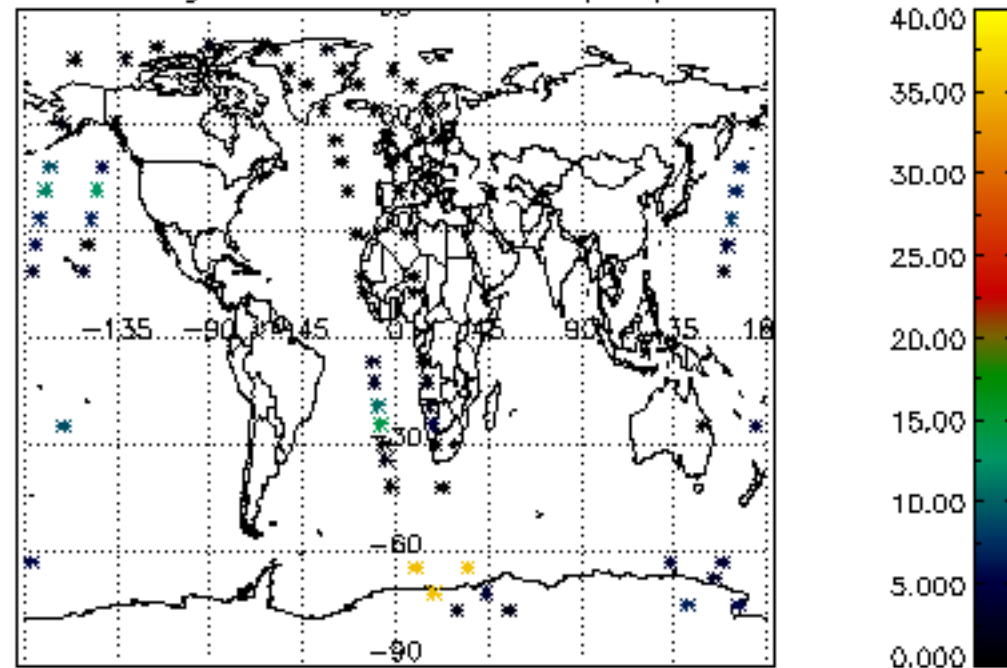
Percentage of datation errors per profile



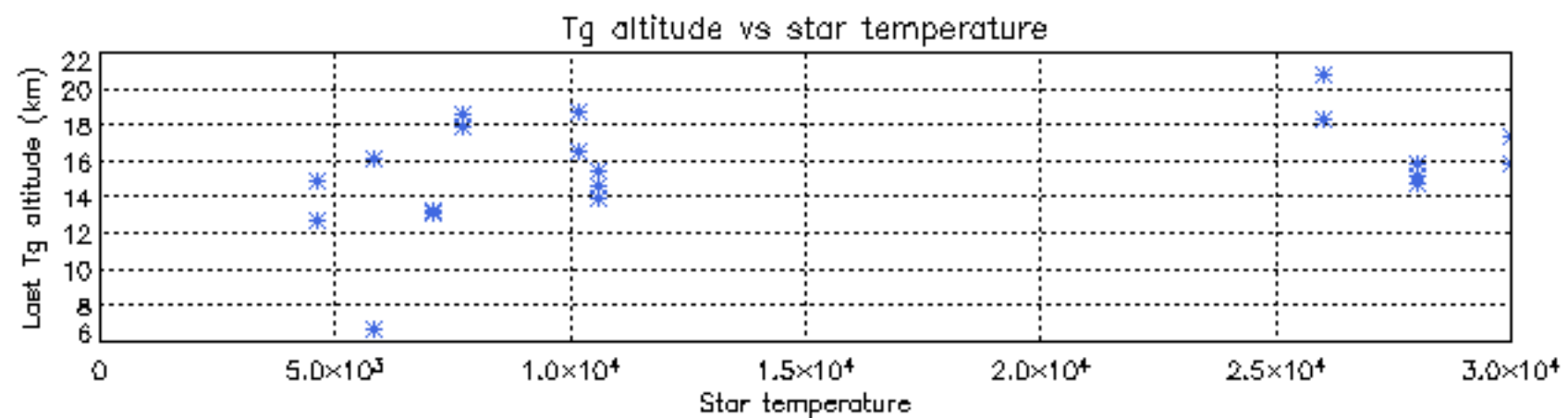
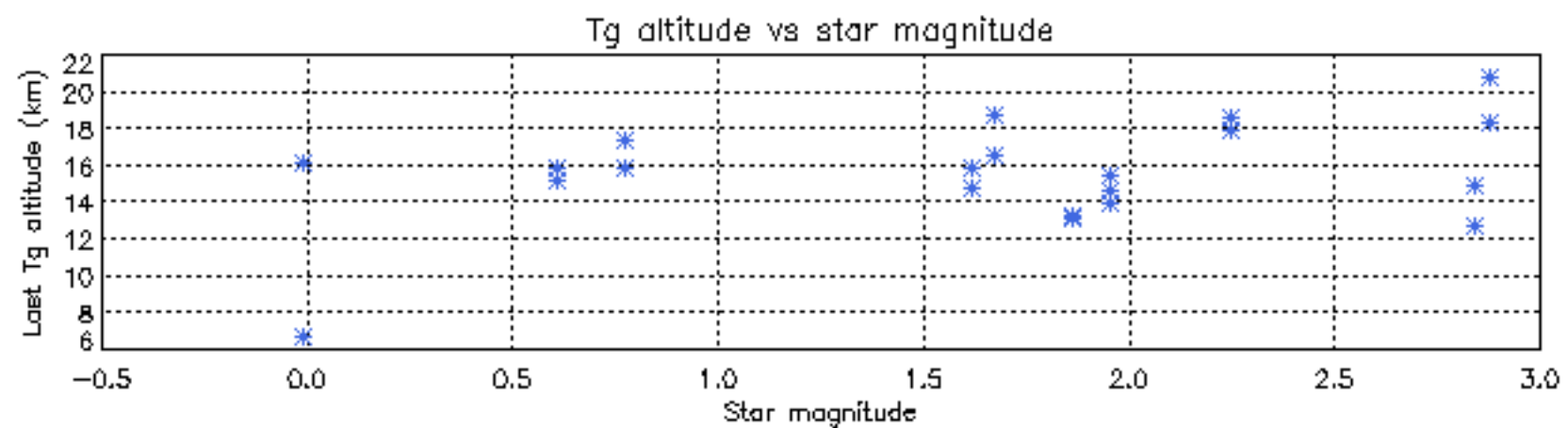
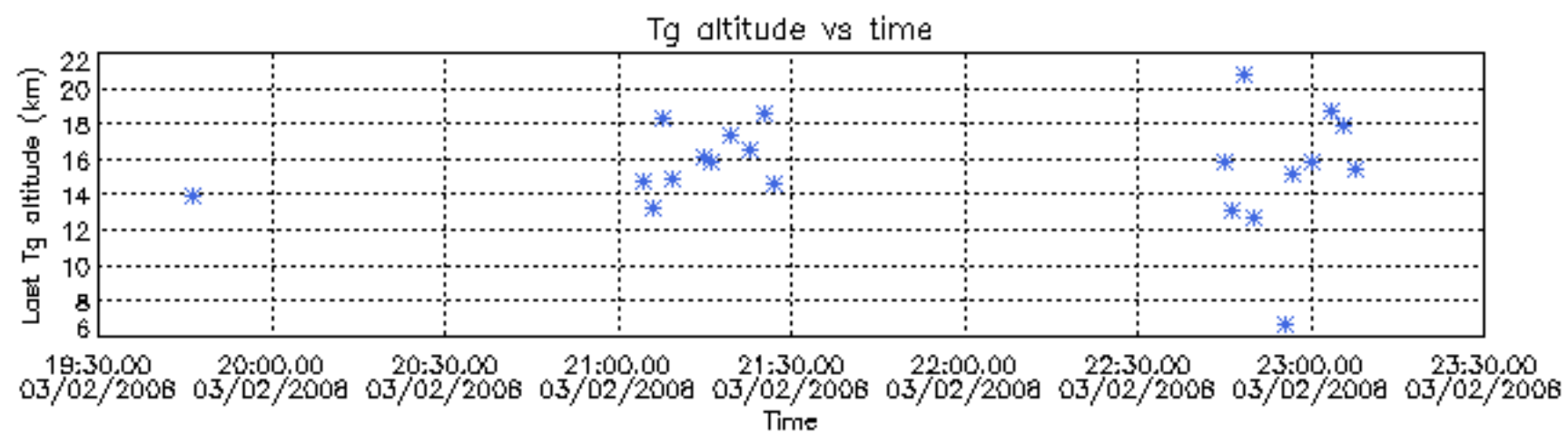
Percentage of star falling outside central band per profile



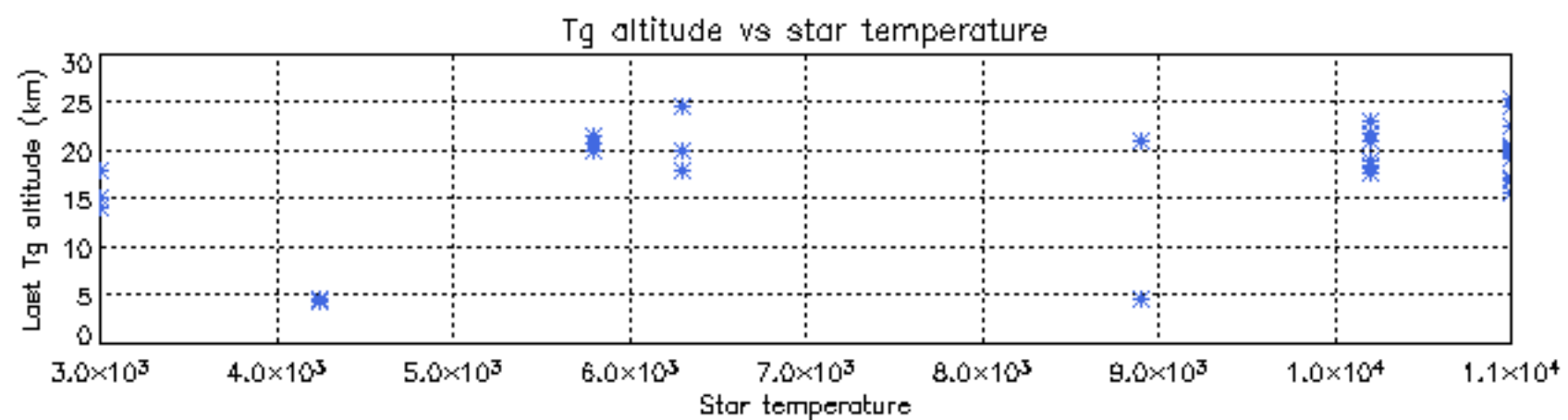
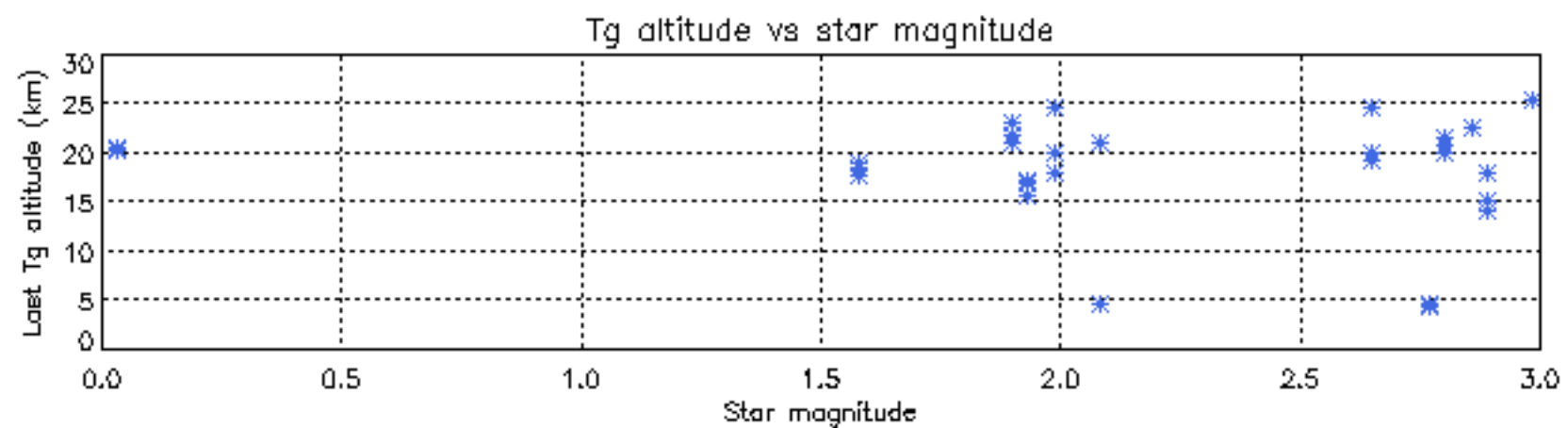
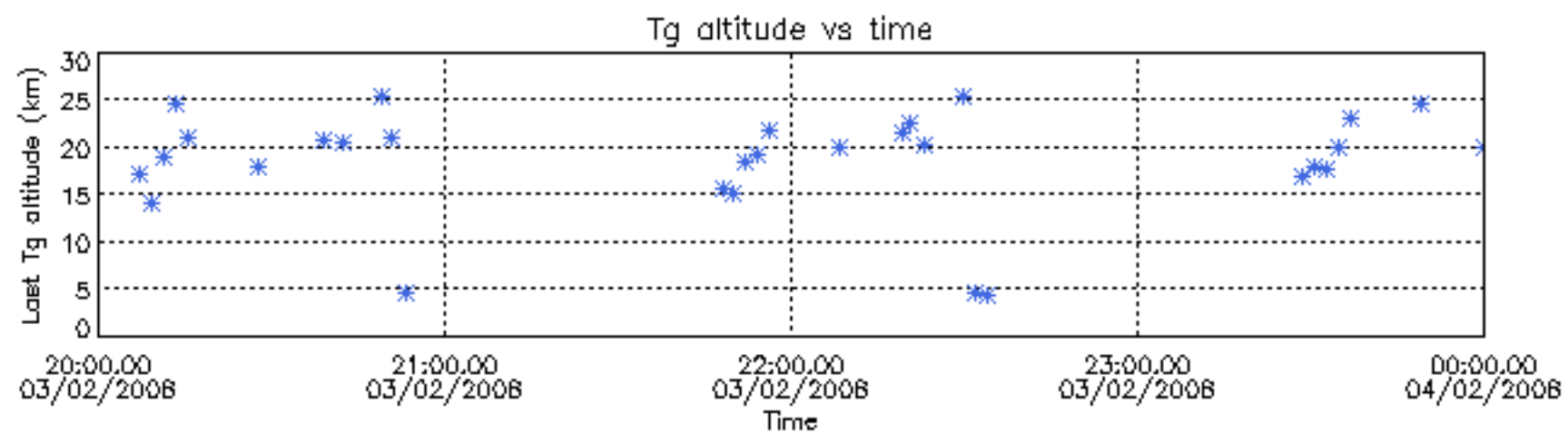
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

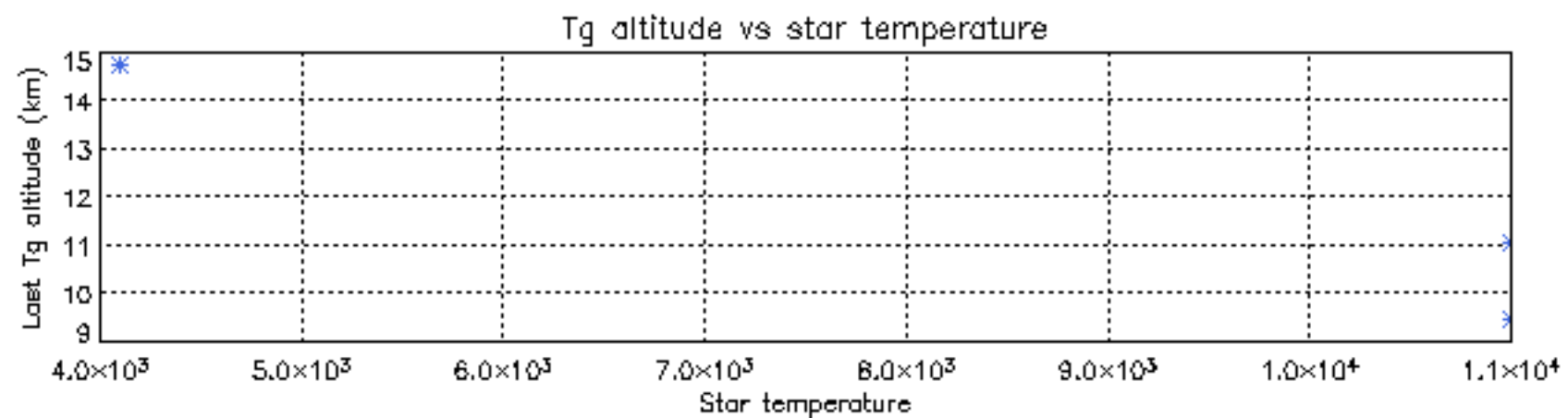
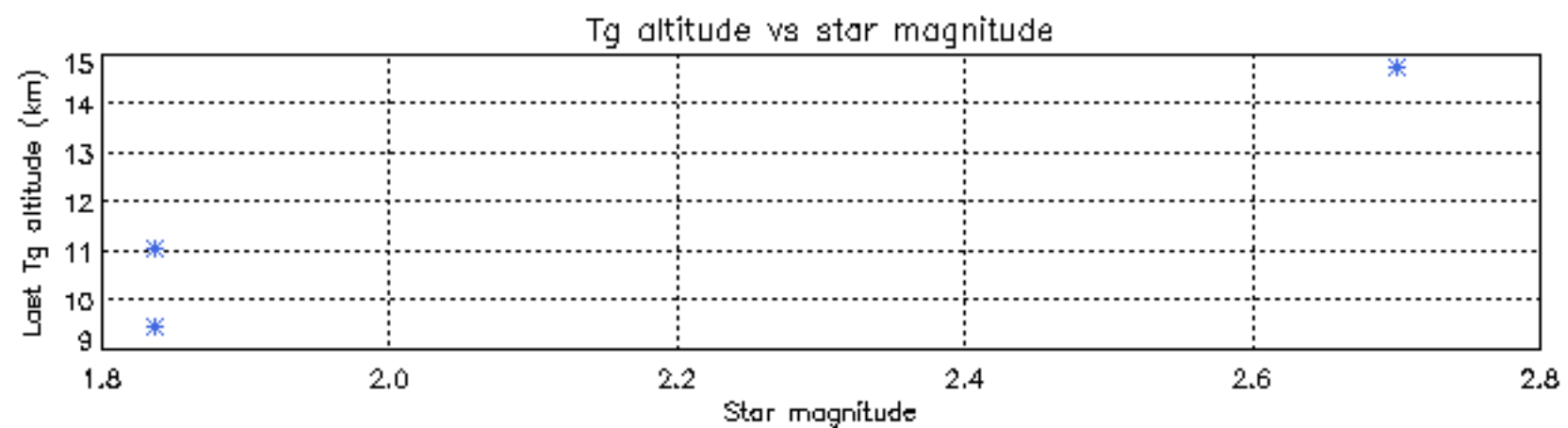
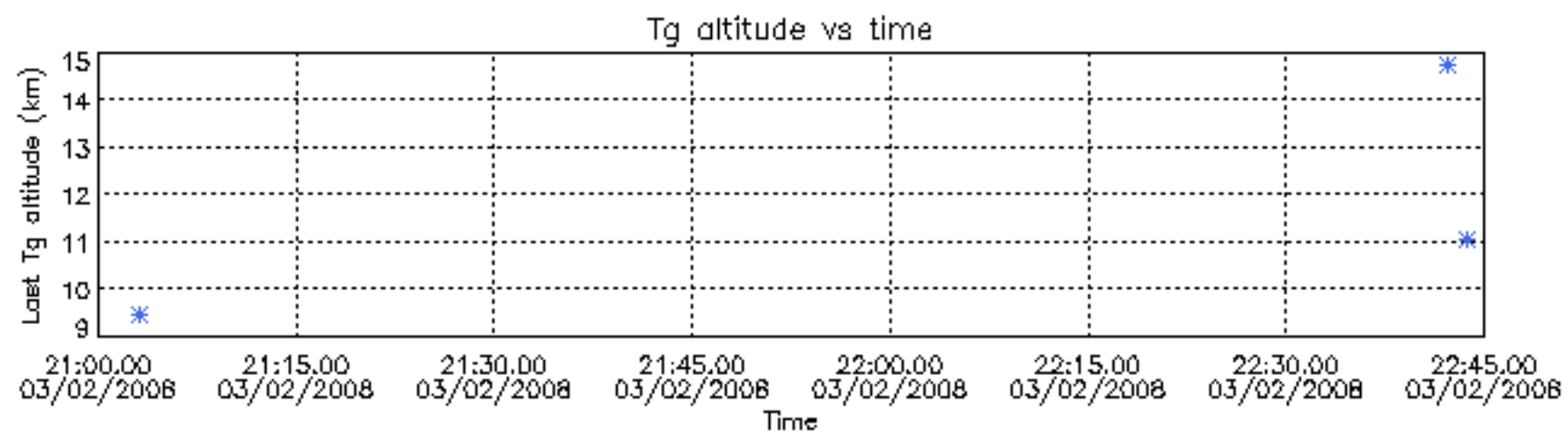


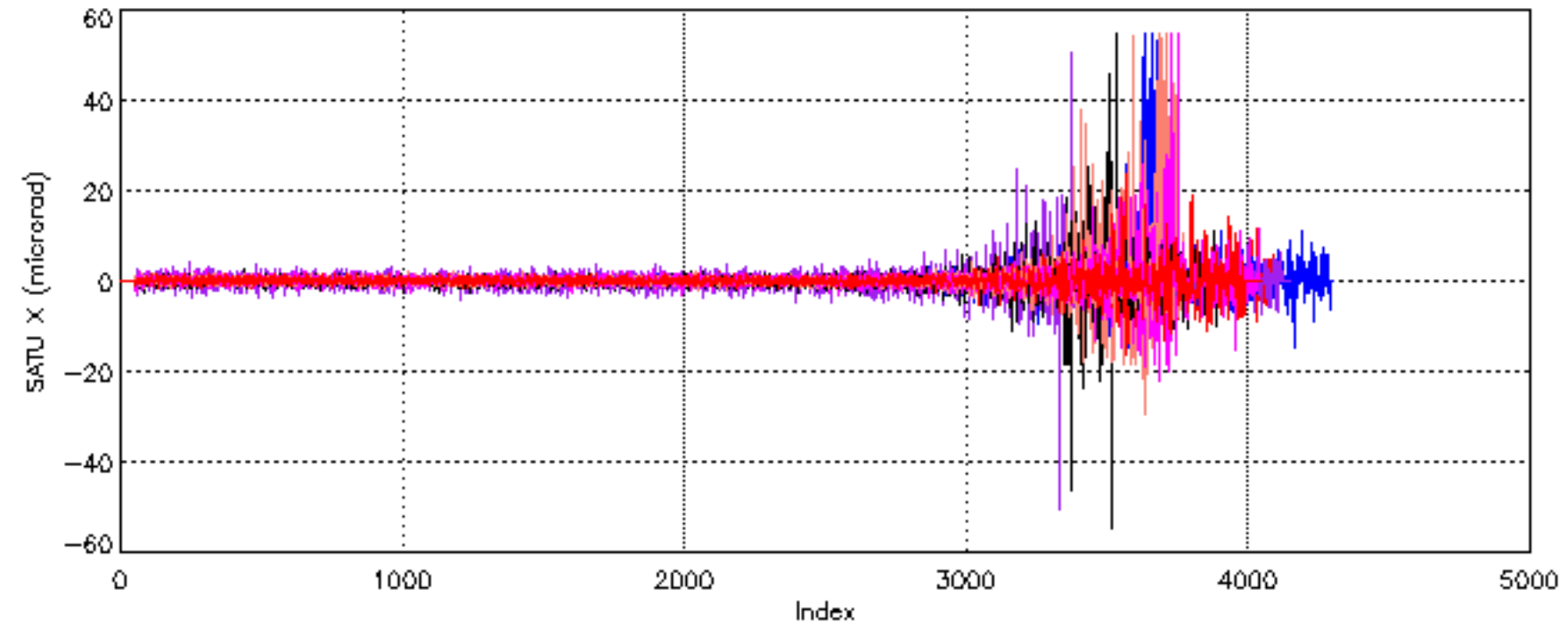
Tangent altitude at which the star is lost

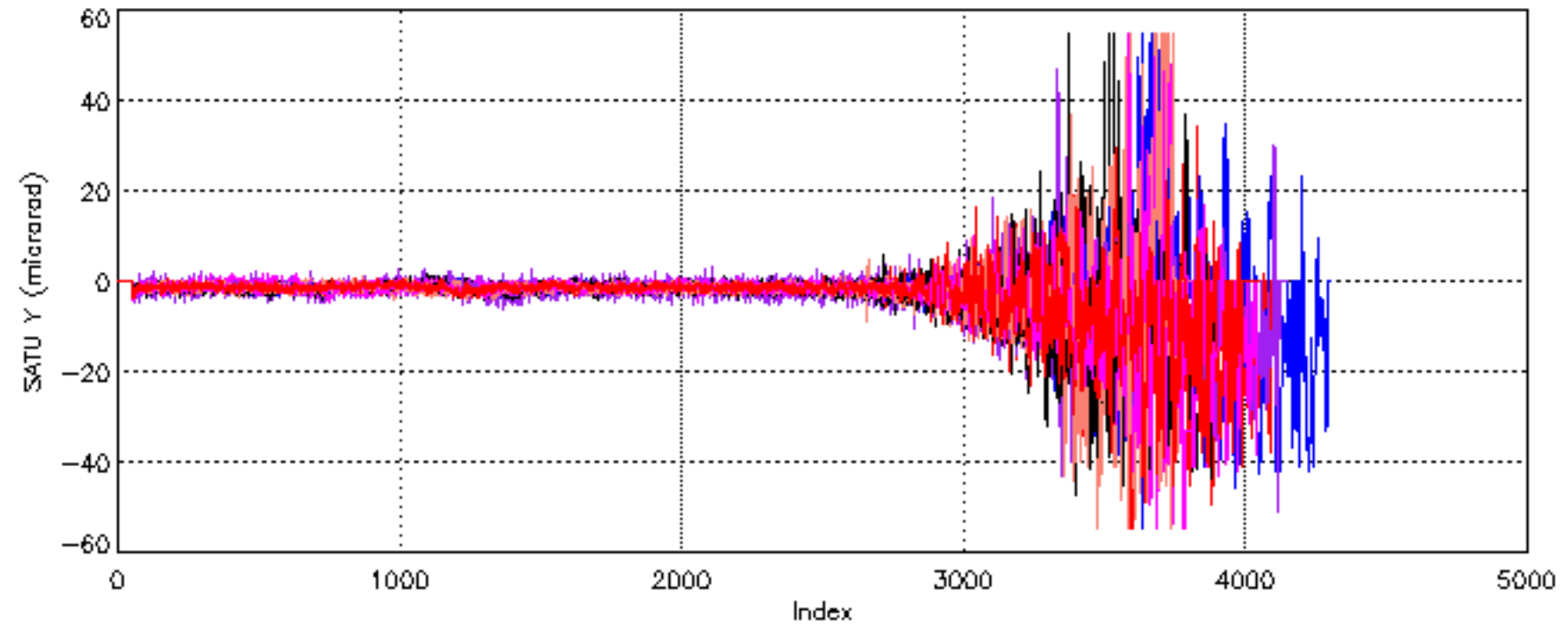


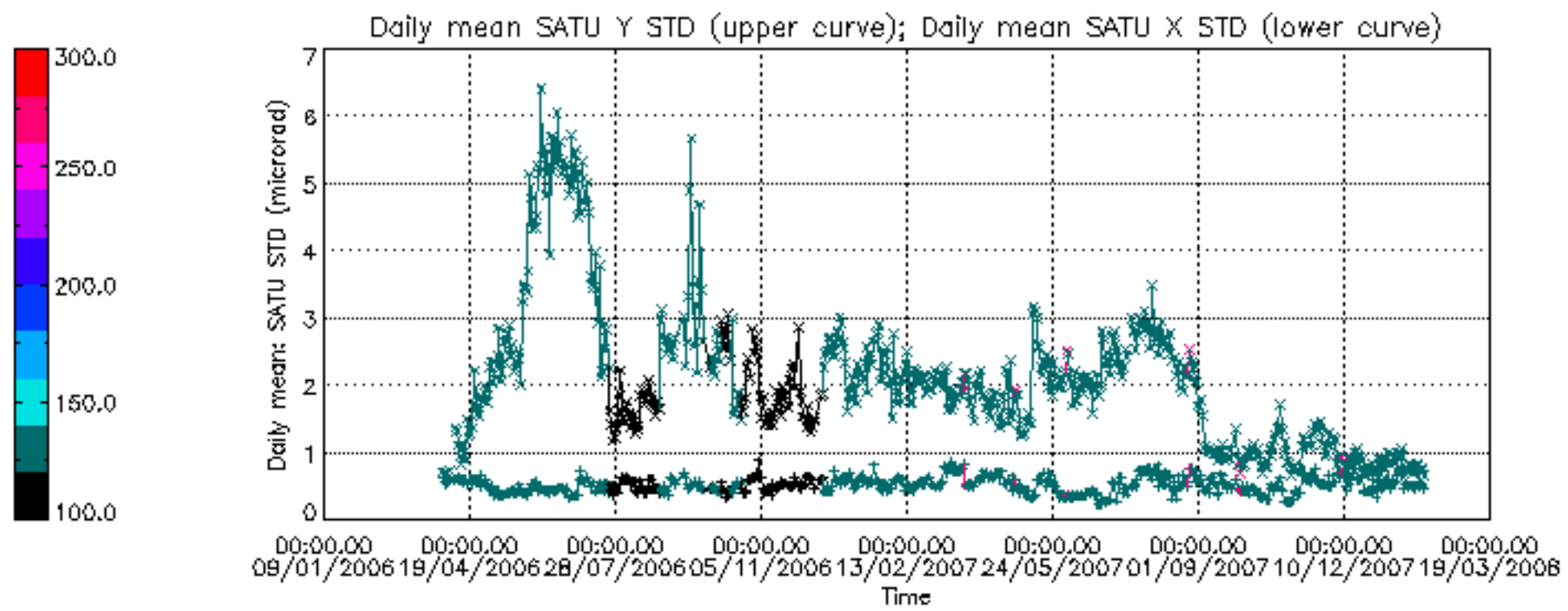


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080201\_015436\_000041842065\_00346\_30961\_5235.N1

1; -724.9; 01-FEB-2008 01:54:36; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;30961  
 2; -420.4; 01-FEB-2008 01:59:40; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;30961  
 3; -332.1; 01-FEB-2008 02:01:08; Dark ; 37.5; 40; The Sco ; 1.86; 7100;occ; 75; 0;30961  
 4; -218.5; 01-FEB-2008 02:03:02; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30961  
 5; -125.2; 01-FEB-2008 02:04:35; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;30961  
 6; 89.5; 01-FEB-2008 02:08:10; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30962  
 7; 191.6; 01-FEB-2008 02:09:52; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30962  
 8; 342.2; 01-FEB-2008 02:12:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30962  
 9; 467.4; 01-FEB-2008 02:14:28; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;30962  
 10; 680.9; 01-FEB-2008 02:18:01; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30962  
 11; 821.9; 01-FEB-2008 02:20:23; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30962  
 12; 927.1; 01-FEB-2008 02:22:08; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;30962  
 13; 1078.7; 01-FEB-2008 02:24:39; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30962  
 14; 1203.9; 01-FEB-2008 02:26:45; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;30962  
 15; 1286.8; 01-FEB-2008 02:28:07; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30962  
 16; 1433.1; 01-FEB-2008 02:30:34; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30962  
 17; 1515.9; 01-FEB-2008 02:31:56; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;30962  
 18; 1644.9; 01-FEB-2008 02:34:05; Dark ; 45.0; 1; 9Alp CMa ; -1.44; 11000;occ; 90; 0;30962  
 19; 1993.0; 01-FEB-2008 02:39:54; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;30962  
 20; 2198.7; 01-FEB-2008 02:43:19; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;30962  
 21; 2308.7; 01-FEB-2008 02:45:09; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30962  
 22; 2456.9; 01-FEB-2008 02:47:38; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;30962  
 23; 2566.4; 01-FEB-2008 02:49:27; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30962  
 24; 2691.8; 01-FEB-2008 02:51:32; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30962  
 25; 3427.9; 01-FEB-2008 03:03:49; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30962

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080201\_045524\_000054132065\_00348\_30963\_5237.N1

1; -1948.8; 01-FEB-2008 04:55:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30963  
 2; -1731.5; 01-FEB-2008 04:59:01; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30963  
 3; -1239.6; 01-FEB-2008 05:07:13; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;30963  
 4; -1111.7; 01-FEB-2008 05:09:21; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;30963  
 5; -724.0; 01-FEB-2008 05:15:49; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;30963  
 6; -559.9; 01-FEB-2008 05:18:33; Dark ; 41.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 83; 0;30963  
 7; -419.8; 01-FEB-2008 05:20:53; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;30963  
 8; -331.5; 01-FEB-2008 05:22:21; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30963  
 9; -218.3; 01-FEB-2008 05:24:14; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30963  
 10; -124.6; 01-FEB-2008 05:25:48; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;30963  
 11; 90.4; 01-FEB-2008 05:29:23; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30964  
 12; 192.8; 01-FEB-2008 05:31:05; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30964  
 13; 342.7; 01-FEB-2008 05:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30964  
 14; 468.5; 01-FEB-2008 05:35:41; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30964  
 15; 681.6; 01-FEB-2008 05:39:14; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30964  
 16; 822.7; 01-FEB-2008 05:41:35; Dark ; 36.0; 71; Iot Car ; 2.25; 7700;occ; 72; 0;30964  
 17; 927.7; 01-FEB-2008 05:43:20; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;30964  
 18; 1079.4; 01-FEB-2008 05:45:52; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;30964  
 19; 1204.6; 01-FEB-2008 05:47:57; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;30964  
 20; 1287.4; 01-FEB-2008 05:49:20; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;30964  
 21; 1433.5; 01-FEB-2008 05:51:46; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;30964  
 22; 1516.4; 01-FEB-2008 05:53:09; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;30964  
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21; 6168.8; 08-FEB-2008 18:34:45; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31071
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19; 5550.5; 08-FEB-2008 20:05:03; Dark ; 38.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 77; 0;31072  
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26; 6562.2; 08-FEB-2008 20:21:54; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31072  
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21;	2720.3;	09-FEB-2008	00:19:40;	Bright;		36.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	73;	0;	31075
22;	3429.5;	09-FEB-2008	00:31:29;	Bright;		34.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	68;	0;	31075
23;	3824.4;	09-FEB-2008	00:38:04;	Bright;		33.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	67;	0;	31075
24;	4101.5;	09-FEB-2008	00:42:41;	Bright;		38.5;	69;	33Gam	Dra	;	2.23;	3800;	occ;	77;	0;	31075
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 9; 4319.4; 09-FEB-2008 10:49:55; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;31081  
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 18; 6246.2; 20-FEB-2008 08:55:27; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31237  
 19; 6388.5; 20-FEB-2008 08:57:49; Dark ; 57.0; 4; Alp1Cen ; -0.01; 5800;occ; 114; 0;31237  
 20; 6468.1; 20-FEB-2008 08:59:09; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;31237  
 21; 6643.9; 20-FEB-2008 09:02:05; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;31237  
 22; 6770.1; 20-FEB-2008 09:04:11; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;31237  
 23; 6931.5; 20-FEB-2008 09:06:52; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;31237  
 24; 7026.7; 20-FEB-2008 09:08:27; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;31237  
 25; 7167.2; 20-FEB-2008 09:10:48; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;31237  
 26; 7292.5; 20-FEB-2008 09:12:53; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;31237  
 27; 7551.1; 20-FEB-2008 09:17:12; Dark ; 38.5; 132; 15Rho Pup ; 2.80; 6900;occ; 77; 0;31237

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 2; 2395.8; 20-FEB-2008 09:31:52; Bright; 35.5; 17; 78Bet Gem ; 1.16; 4500;occ; 71; 0;31238  
 3; 2465.8; 20-FEB-2008 09:33:02; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;31238

4; 3431.8; 20-FEB-2008 09:49:08; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;31238  
5; 3861.5; 20-FEB-2008 09:56:18; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;31238  
6; 4167.7; 20-FEB-2008 10:01:24; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;31238  
7; 4263.3; 20-FEB-2008 10:03:00; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;31238  
8; 4351.8; 20-FEB-2008 10:04:28; Bright; 33.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 66; 0;31238  
9; 4759.4; 20-FEB-2008 10:11:16; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;31238  
10; 5335.2; 20-FEB-2008 10:20:52; Dark ; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;31238  
11; 5437.3; 20-FEB-2008 10:22:34; Dark ; 41.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 82; 0;31238  
12; 5609.7; 20-FEB-2008 10:25:26; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;31238  
13; 5761.1; 20-FEB-2008 10:27:58; Dark ; 33.0; 115; 34Ups Sco ; 2.70; 26000;occ; 66; 0;31238  
14; 5823.4; 20-FEB-2008 10:29:00; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;31238  
15; 5925.2; 20-FEB-2008 10:30:42; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;31238  
16; 6008.7; 20-FEB-2008 10:32:05; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;31238  
17; 6155.5; 20-FEB-2008 10:34:32; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;31238  
18; 6246.6; 20-FEB-2008 10:36:03; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;31238  
19; 6389.0; 20-FEB-2008 10:38:26; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;31238  
20; 6468.6; 20-FEB-2008 10:39:45; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;31238  
21; 6644.3; 20-FEB-2008 10:42:41; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;31238  
22; 6770.2; 20-FEB-2008 10:44:47; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;31238  
23; 6931.7; 20-FEB-2008 10:47:28; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;31238  
24; 7026.8; 20-FEB-2008 10:49:03; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;31238  
25; 7167.4; 20-FEB-2008 10:51:24; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;31238  
26; 7292.6; 20-FEB-2008 10:53:29; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;31238  
27; 7551.3; 20-FEB-2008 10:57:48; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 0;31238

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1; 1545.4; 20-FEB-2008 10:58:18; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 60;31239  
2; 2024.0; 20-FEB-2008 11:06:17; Bright; 41.0; 8; 10Alp CMI ; 0.40; 6500;occ; 82; 0;31239  
3; 2395.9; 20-FEB-2008 11:12:28; Bright; 52.0; 17; 78Bet Gem ; 1.16; 4500;occ; 104; 0;31239  
4; 2465.9; 20-FEB-2008 11:13:38; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;31239  
5; 3431.8; 20-FEB-2008 11:29:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;31239  
6; 3861.6; 20-FEB-2008 11:36:54; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;31239  
7; 4167.9; 20-FEB-2008 11:42:00; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;31239  
8; 4263.4; 20-FEB-2008 11:43:36; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;31239  
9; 4351.9; 20-FEB-2008 11:45:04; Bright; 33.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 66; 0;31239  
10; 4759.6; 20-FEB-2008 11:51:52; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;31239  
11; 5335.5; 20-FEB-2008 12:01:28; Dark ; 38.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 76; 0;31239  
12; 5437.5; 20-FEB-2008 12:03:10; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;31239  
13; 5610.2; 20-FEB-2008 12:06:03; Dark ; 40.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 81; 0;31239  
14; 5761.7; 20-FEB-2008 12:08:34; Dark ; 33.0; 115; 34Ups Sco ; 2.70; 26000;occ; 66; 0;31239  
15; 5823.9; 20-FEB-2008 12:09:36; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;31239  
16; 5925.6; 20-FEB-2008 12:11:18; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;31239  
17; 6009.1; 20-FEB-2008 12:12:42; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;31239  
18; 6155.7; 20-FEB-2008 12:15:08; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;31239  
19; 6247.1; 20-FEB-2008 12:16:40; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31239  
20; 6389.6; 20-FEB-2008 12:19:02; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;31239  
21; 6469.2; 20-FEB-2008 12:20:22; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;31239  
22; 6644.8; 20-FEB-2008 12:23:17; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;31239  
23; 6770.3; 20-FEB-2008 12:25:23; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;31239  
24; 6931.9; 20-FEB-2008 12:28:04; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;31239  
25; 7027.0; 20-FEB-2008 12:29:39; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;31239  
26; 7167.5; 20-FEB-2008 12:32:00; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;31239  
27; 7292.8; 20-FEB-2008 12:34:05; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;31239  
28; 7551.5; 20-FEB-2008 12:38:24; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;31239

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1; 2024.2; 20-FEB-2008 12:46:53; Bright; 42.0; 8; 10Alp CMI ; 0.40; 6500;occ; 84; 0;31240  
2; 2396.1; 20-FEB-2008 12:53:04; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;31240  
3; 2466.1; 20-FEB-2008 12:54:15; Bright; 34.5; 24; 66Alp Gem ; 1.58; 10200;occ; 69; 0;31240  
4; 3431.9; 20-FEB-2008 13:10:20; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31240  
5; 3862.1; 20-FEB-2008 13:17:30; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;31240  
6; 4168.2; 20-FEB-2008 13:22:37; Bright; 33.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 67; 0;31240  
7; 4263.6; 20-FEB-2008 13:24:12; Bright; 33.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 67; 0;31240  
8; 4352.3; 20-FEB-2008 13:25:41; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;31240  
9; 4760.0; 20-FEB-2008 13:32:28; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;31240  
10; 5335.8; 20-FEB-2008 13:42:04; Dark ; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;31240  
11; 5438.1; 20-FEB-2008 13:43:46; Dark ; 41.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 83; 0;31240  
12; 5610.7; 20-FEB-2008 13:46:39; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;31240  
13; 5752.9; 20-FEB-2008 13:49:01; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;31240  
14; 5926.3; 20-FEB-2008 13:51:55; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;31240

15; 6009.6; 20-FEB-2008 13:53:18; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;31240  
 16; 6155.9; 20-FEB-2008 13:55:44; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;31240  
 17; 6247.7; 20-FEB-2008 13:57:16; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31240  
 18; 6390.3; 20-FEB-2008 13:59:39; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;31240  
 19; 6469.9; 20-FEB-2008 14:00:58; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;31240  
 20; 6645.3; 20-FEB-2008 14:03:54; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;31240  
 21; 6770.5; 20-FEB-2008 14:05:59; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;31240  
 22; 6932.2; 20-FEB-2008 14:08:41; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;31240  
 23; 7027.2; 20-FEB-2008 14:10:16; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;31240  
 24; 7167.7; 20-FEB-2008 14:12:36; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;31240  
 25; 7293.0; 20-FEB-2008 14:14:41; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;31240

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 2; 2024.5; 20-FEB-2008 14:27:29; Bright; 41.0; 8; 10Alp CMi ; 0.40; 6500;occ; 82; 0;31241  
 3; 2396.3; 20-FEB-2008 14:33:41; Bright; 38.0; 17; 78Bet Gem ; 1.16; 4500;occ; 76; 0;31241  
 4; 2466.3; 20-FEB-2008 14:34:51; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;31241  
 5; 3432.0; 20-FEB-2008 14:50:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;31241  
 6; 3862.2; 20-FEB-2008 14:58:06; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;31241  
 7; 4168.4; 20-FEB-2008 15:03:13; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;31241  
 8; 4263.9; 20-FEB-2008 15:04:48; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;31241  
 9; 4352.5; 20-FEB-2008 15:06:17; Bright; 33.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 67; 0;31241  
 10; 4760.3; 20-FEB-2008 15:13:05; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;31241  
 11; 5336.2; 20-FEB-2008 15:22:41; Dark ; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;31241  
 12; 5438.6; 20-FEB-2008 15:24:23; Dark ; 41.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 83; 0;31241  
 13; 5611.3; 20-FEB-2008 15:27:16; Dark ; 41.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 83; 0;31241  
 14; 5753.6; 20-FEB-2008 15:29:38; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;31241  
 15; 5926.8; 20-FEB-2008 15:32:31; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;31241  
 16; 6010.1; 20-FEB-2008 15:33:54; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;31241  
 17; 6156.2; 20-FEB-2008 15:36:21; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;31241  
 18; 6248.3; 20-FEB-2008 15:37:53; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31241  
 19; 6390.9; 20-FEB-2008 15:40:15; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;31241  
 20; 6470.5; 20-FEB-2008 15:41:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;31241  
 21; 6645.8; 20-FEB-2008 15:44:30; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;31241  
 22; 6770.7; 20-FEB-2008 15:46:35; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;31241  
 23; 6932.3; 20-FEB-2008 15:49:17; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;31241  
 24; 7027.3; 20-FEB-2008 15:50:52; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;31241  
 25; 7167.9; 20-FEB-2008 15:53:12; Dark ; 36.5; 34; Gam2Vel ; 1.79; 23000;occ; 73; 0;31241

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1; 1164.4; 20-FEB-2008 15:53:45; Dark ; 37.0; 34; Gam2Vel ; 1.79; 23000;occ; 74; 65;31242  
 2; 1257.2; 20-FEB-2008 15:55:17; Dark ; 36.5; 70; Zet Pup ; 2.25; 39000;occ; 73; 0;31242  
 3; 1515.9; 20-FEB-2008 15:59:36; Dark ; 37.5; 132; 15Rho Pup ; 2.80; 6900;occ; 75; 0;31242  
 4; 2024.7; 20-FEB-2008 16:08:05; Bright; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;31242  
 5; 2396.4; 20-FEB-2008 16:14:17; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;31242  
 6; 2466.6; 20-FEB-2008 16:15:27; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;31242  
 7; 3431.9; 20-FEB-2008 16:31:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31242  
 8; 3862.3; 20-FEB-2008 16:38:43; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;31242  
 9; 4168.6; 20-FEB-2008 16:43:49; Bright; 33.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 67; 0;31242  
 10; 4264.1; 20-FEB-2008 16:45:24; Bright; 32.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 65; 0;31242  
 11; 4352.6; 20-FEB-2008 16:46:53; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;31242  
 12; 4760.5; 20-FEB-2008 16:53:41; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;31242  
 13; 5336.5; 20-FEB-2008 17:03:17; Dark ; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;31242  
 14; 5438.9; 20-FEB-2008 17:04:59; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;31242  
 15; 5611.7; 20-FEB-2008 17:07:52; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;31242  
 16; 5754.3; 20-FEB-2008 17:10:15; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;31242  
 17; 5825.7; 20-FEB-2008 17:11:26; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;31242  
 18; 5927.3; 20-FEB-2008 17:13:08; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;31242  
 19; 6010.5; 20-FEB-2008 17:14:31; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;31242  
 20; 6156.5; 20-FEB-2008 17:16:57; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;31242  
 21; 6248.7; 20-FEB-2008 17:18:29; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31242  
 22; 6391.5; 20-FEB-2008 17:20:52; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;31242  
 23; 6471.2; 20-FEB-2008 17:22:11; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;31242  
 24; 6646.4; 20-FEB-2008 17:25:07; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;31242  
 25; 6770.9; 20-FEB-2008 17:27:11; Dark ; 45.0; 29; Bet Car ; 1.67; 10200;occ; 90; 0;31242  
 26; 6932.7; 20-FEB-2008 17:29:53; Dark ; 36.5; 71; Iot Car ; 2.25; 7700;occ; 73; 0;31242  
 27; 7027.5; 20-FEB-2008 17:31:28; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;31242

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1; 1132.0; 20-FEB-2008 17:33:48; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;31243  
 2; 1257.3; 20-FEB-2008 17:35:54; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;31243



3;	1516.0;	20-FEB-2008	17:40:12;	Dark	;	41.0;	132;	15Rho Pup	;	2.80;	6900;occ;	82;	0;	31243
4;	2024.9;	20-FEB-2008	17:48:41;	Bright;	;	43.0;	8;	10Alp CMi	;	0.40;	6500;occ;	86;	0;	31243
5;	2396.5;	20-FEB-2008	17:54:53;	Bright;	;	37.0;	17;	78Bet Gem	;	1.16;	4500;occ;	74;	0;	31243
6;	2466.7;	20-FEB-2008	17:56:03;	Bright;	;	37.5;	24;	66Alp Gem	;	1.58;	10200;occ;	75;	0;	31243
7;	3431.9;	20-FEB-2008	18:12:08;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	31243
8;	3862.5;	20-FEB-2008	18:19:19;	Bright;	;	35.5;	89;	5Alp Cep	;	2.45;	8000;occ;	71;	0;	31243
9;	4168.8;	20-FEB-2008	18:24:25;	Bright;	;	34.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	68;	0;	31243
10;	4264.3;	20-FEB-2008	18:26:01;	Bright;	;	34.0;	66;	37Gam Cyg	;	2.21;	5900;occ;	68;	0;	31243
11;	4352.8;	20-FEB-2008	18:27:29;	Bright;	;	34.0;	92;	53Eps Cyg	;	2.50;	4500;occ;	68;	0;	31243
12;	4760.8;	20-FEB-2008	18:34:17;	Bright;	;	35.5;	168;	17Zet Aql	;	2.99;	11000;occ;	71;	0;	31243
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6; 4278.7; 27-FEB-2008 11:23:45; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;31339  
7; 4370.2; 27-FEB-2008 11:25:16; Bright; 32.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 65; 0;31339  
8; 4787.7; 27-FEB-2008 11:32:14; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;31339  
9; 5371.4; 27-FEB-2008 11:41:57; Dark ; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;31339  
10; 5478.9; 27-FEB-2008 11:43:45; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;31339  
11; 5661.8; 27-FEB-2008 11:46:48; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;31339  
12; 5825.2; 27-FEB-2008 11:49:31; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;31339  
13; 5981.6; 27-FEB-2008 11:52:08; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;31339  
14; 6058.5; 27-FEB-2008 11:53:24; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;31339  
15; 6175.3; 27-FEB-2008 11:55:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31339  
16; 6297.8; 27-FEB-2008 11:57:24; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;31339  
17; 6450.2; 27-FEB-2008 11:59:56; Dark ; 53.5; 4; Alp1Cen ; -0.01; 5800;occ; 107; 0;31339  
18; 6529.7; 27-FEB-2008 12:01:16; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;31339  
19; 6615.6; 27-FEB-2008 12:02:42; Dark ; 36.5; 112; Alp Mus ; 2.69; 26000;occ; 73; 0;31339  
20; 6689.8; 27-FEB-2008 12:03:56; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;31339  
21; 6875.5; 27-FEB-2008 12:07:01; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;31339  
22; 7015.8; 27-FEB-2008 12:09:22; Dark ; 35.5; 91; Kap Vel ; 2.49; 26000;occ; 71; 0;31339  
23; 7214.0; 27-FEB-2008 12:12:40; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;31339

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1; 1750.6; 27-FEB-2008 12:22:12; Dark ; 45.5; 48; 30Alp Hya ; 1.98; 4100;occ; 91; 0;31340  
2; 2330.5; 27-FEB-2008 12:31:52; Bright; 38.5; 166; 17Eps Leo ; 2.98; 6000;occ; 77; 0;31340  
3; 3433.2; 27-FEB-2008 12:50:15; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31340  
4; 3879.0; 27-FEB-2008 12:57:41; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;31340  
5; 4184.8; 27-FEB-2008 13:02:47; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;31340  
6; 4279.0; 27-FEB-2008 13:04:21; Bright; 33.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 67; 0;31340  
7; 4370.5; 27-FEB-2008 13:05:52; Bright; 33.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 66; 0;31340  
8; 4787.9; 27-FEB-2008 13:12:50; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;31340  
9; 5371.9; 27-FEB-2008 13:22:34; Dark ; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;31340  
10; 5479.4; 27-FEB-2008 13:24:21; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;31340  
11; 5662.4; 27-FEB-2008 13:27:24; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;31340  
12; 5826.0; 27-FEB-2008 13:30:08; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;31340  
13; 5982.4; 27-FEB-2008 13:32:44; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;31340  
14; 6059.0; 27-FEB-2008 13:34:01; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;31340  
15; 6175.9; 27-FEB-2008 13:35:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31340  
16; 6298.3; 27-FEB-2008 13:38:00; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31340  
17; 6450.7; 27-FEB-2008 13:40:33; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;31340  
18; 6530.3; 27-FEB-2008 13:41:52; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;31340  
19; 6615.6; 27-FEB-2008 13:43:17; Dark ; 38.0; 112; Alp Mus ; 2.69; 26000;occ; 76; 0;31340  
20; 6690.3; 27-FEB-2008 13:44:32; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;31340  
21; 6876.1; 27-FEB-2008 13:47:38; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;31340  
22; 7016.0; 27-FEB-2008 13:49:58; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;31340  
23; 7214.3; 27-FEB-2008 13:53:16; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;31340

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1; 1750.7; 27-FEB-2008 14:02:48; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;31341  
2; 2330.3; 27-FEB-2008 14:12:28; Bright; 39.0; 166; 17Eps Leo ; 2.98; 6000;occ; 78; 0;31341

3;	3433.3;	27-FEB-2008	14:30:51;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;31341
4;	3879.2;	27-FEB-2008	14:38:17;	Bright;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;31341
5;	4185.0;	27-FEB-2008	14:43:23;	Bright;	34.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	68;	0;31341
6;	4279.1;	27-FEB-2008	14:44:57;	Bright;	33.5;	66;	37Gam Cyg	;	2.21;	5900;occ;	67;	0;31341
7;	4370.7;	27-FEB-2008	14:46:28;	Bright;	33.5;	92;	53Eps Cyg	;	2.50;	4500;occ;	67;	0;31341
8;	4788.3;	27-FEB-2008	14:53:26;	Bright;	37.0;	168;	17Zet Aql	;	2.99;	11000;occ;	74;	0;31341
9;	5372.3;	27-FEB-2008	15:03:10;	Dark	;	41.0;	155; 41Pi Sgr	;	2.90;	6600;occ;	82;	0;31341
10;	5479.9;	27-FEB-2008	15:04:58;	Dark	;	40.0;	57; 34Sig Sgr	;	2.07;	26000;occ;	80;	0;31341
11;	5663.0;	27-FEB-2008	15:08:01;	Dark	;	43.0;	38; 20Eps Sgr	;	1.84;	11000;occ;	86;	0;31341
12;	5826.8;	27-FEB-2008	15:10:44;	Dark	;	42.0;	25; 35Lam Sco	;	1.62;	28000;occ;	84;	0;31341
13;	5982.9;	27-FEB-2008	15:13:21;	Dark	;	39.0;	147; Alp Ara	;	2.88;	26000;occ;	78;	0;31341
14;	6059.6;	27-FEB-2008	15:14:37;	Dark	;	41.5;	141; Bet Ara	;	2.84;	4600;occ;	83;	0;31341
15;	6176.5;	27-FEB-2008	15:16:34;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;31341
16;	6298.8;	27-FEB-2008	15:18:37;	Dark	;	39.0;	134; Bet TrA	;	2.81;	6600;occ;	78;	0;31341
17;	6451.3;	27-FEB-2008	15:21:09;	Dark	;	43.0;	4; Alp1Cen	;	-0.01;	5800;occ;	86;	0;31341
18;	6531.0;	27-FEB-2008	15:22:29;	Dark	;	42.5;	10; Bet Cen	;	0.61;	28000;occ;	85;	0;31341
19;	6616.2;	27-FEB-2008	15:23:54;	Dark	;	37.0;	112; Alp Mus	;	2.69;	26000;occ;	74;	0;31341
20;	6690.8;	27-FEB-2008	15:25:08;	Dark	;	39.0;	12; Alp1Cru	;	0.77;	30000;occ;	78;	0;31341
21;	6876.7;	27-FEB-2008	15:28:14;	Dark	;	41.5;	99; Del Cen	;	2.58;	26000;occ;	83;	0;31341
22;	7016.3;	27-FEB-2008	15:30:34;	Dark	;	36.5;	91; Kap Vel	;	2.49;	26000;occ;	73;	0;31341
23;	7214.5;	27-FEB-2008	15:33:52;	Dark	;	45.0;	65; Lam Vel	;	2.20;	4400;occ;	90;	0;31341