

GOMOS Daily Report 26-JAN-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	28JAN2008 05:35:11
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (26JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

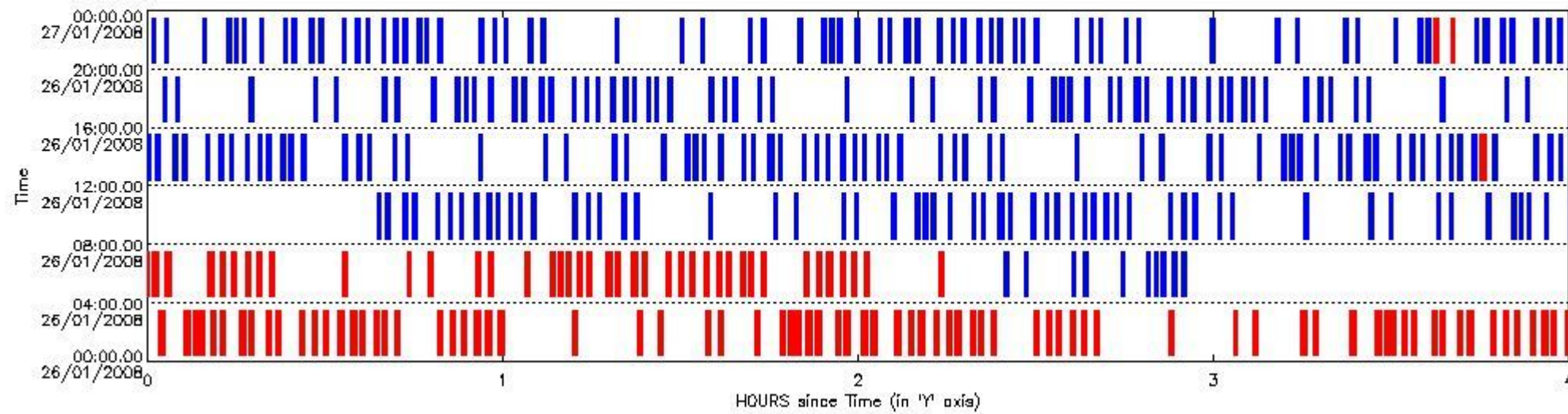
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
26-JAN-2008 00:01:51	35EtaOph	86	30874
26-JAN-2008 00:06:07	23TauSco	136	30874
26-JAN-2008 00:07:33	KapSco	85	30874
26-JAN-2008 00:08:41	TheSco	40	30874
26-JAN-2008 00:10:35	AlpAra	147	30874
26-JAN-2008 00:12:10	BetAra	141	30874
26-JAN-2008 00:15:33	BetTrA	134	30875
26-JAN-2008 00:17:00	Alp1Cen	4	30875
26-JAN-2008 00:19:52	DSA1028	0	30875
26-JAN-2008 00:21:34	Alp1Cru	12	30875
26-JAN-2008 00:25:33	BetCar	29	30875
26-JAN-2008 00:27:45	lotCar	71	30875
26-JAN-2008 00:29:33	DelVel	46	30875
26-JAN-2008 00:32:09	Gam2Vel	34	30875
26-JAN-2008 00:34:15	ZetPup	70	30875

26-JAN-2008 00:35:44	PiPup	117	30875
26-JAN-2008 00:38:12	21EpsCMa	23	30875
26-JAN-2008 00:39:35	24Omi2CMa	179	30875
26-JAN-2008 00:41:44	9AlpCMa	1	30875
26-JAN-2008 00:48:57	58AlpOri	14	30875
26-JAN-2008 00:51:03	24GamGem	44	30875
26-JAN-2008 00:52:50	13MuGem	151	30875
26-JAN-2008 00:55:11	12BetTau	28	30875
26-JAN-2008 00:57:04	37TheAur	107	30875
26-JAN-2008 00:59:12	34BetAur	42	30875
26-JAN-2008 01:11:41	1AlpUMi	49	30875
26-JAN-2008 01:22:40	23BetDra	130	30875
26-JAN-2008 01:26:05	3AlpLyr	5	30875
26-JAN-2008 01:34:07	55AlpOph	59	30875
26-JAN-2008 01:36:14	60BetOph	126	30875
26-JAN-2008 01:42:27	35EtaOph	86	30875
26-JAN-2008 01:46:44	23TauSco	136	30875
26-JAN-2008 01:48:09	KapSco	85	30875
26-JAN-2008 01:49:17	TheSco	40	30875
26-JAN-2008 01:51:11	AlpAra	147	30875
26-JAN-2008 01:52:46	BetAra	141	30875
26-JAN-2008 01:56:09	BetTrA	134	30876
26-JAN-2008 01:57:36	Alp1Cen	4	30876
26-JAN-2008 02:00:28	DSA1028	0	30876
26-JAN-2008 02:02:10	Alp1Cru	12	30876
26-JAN-2008 02:06:09	BetCar	29	30876
26-JAN-2008 02:08:22	lotCar	71	30876
26-JAN-2008 02:10:10	DelVel	46	30876
26-JAN-2008 02:12:45	Gam2Vel	34	30876
26-JAN-2008 02:14:52	ZetPup	70	30876
26-JAN-2008 02:16:20	PiPup	117	30876
26-JAN-2008 02:18:48	21EpsCMa	23	30876
26-JAN-2008 02:20:11	24Omi2CMa	179	30876
26-JAN-2008 02:22:20	9AlpCMa	1	30876
26-JAN-2008 02:29:33	58AlpOri	14	30876
26-JAN-2008 02:31:39	24GamGem	44	30876
26-JAN-2008 02:33:26	13MuGem	151	30876
26-JAN-2008 02:35:47	12BetTau	28	30876
26-JAN-2008 02:37:40	37TheAur	107	30876
26-JAN-2008 02:39:48	34BetAur	42	30876
26-JAN-2008 02:52:17	1AlpUMi	49	30876
26-JAN-2008 03:03:16	23BetDra	130	30876
26-JAN-2008 03:06:41	3AlpLyr	5	30876
26-JAN-2008 03:14:43	55AlpOph	59	30876
26-JAN-2008 03:16:50	60BetOph	126	30876
26-JAN-2008 03:23:04	35EtaOph	86	30876
26-JAN-2008 03:27:20	23TauSco	136	30876
26-JAN-2008 03:28:45	KapSco	85	30876
26-JAN-2008 03:29:53	TheSco	40	30876
26-JAN-2008 03:31:48	AlpAra	147	30876
26-JAN-2008 03:33:23	BetAra	141	30876
26-JAN-2008 03:36:45	BetTrA	134	30877
26-JAN-2008 03:38:12	Alp1Cen	4	30877
26-JAN-2008 03:41:05	DSA1028	0	30877
26-JAN-2008 03:42:47	Alp1Cru	12	30877
26-JAN-2008 03:46:45	BetCar	29	30877
26-JAN-2008 03:48:58	lotCar	71	30877
26-JAN-2008 03:50:46	DelVel	46	30877
26-JAN-2008 03:53:22	Gam2Vel	34	30877

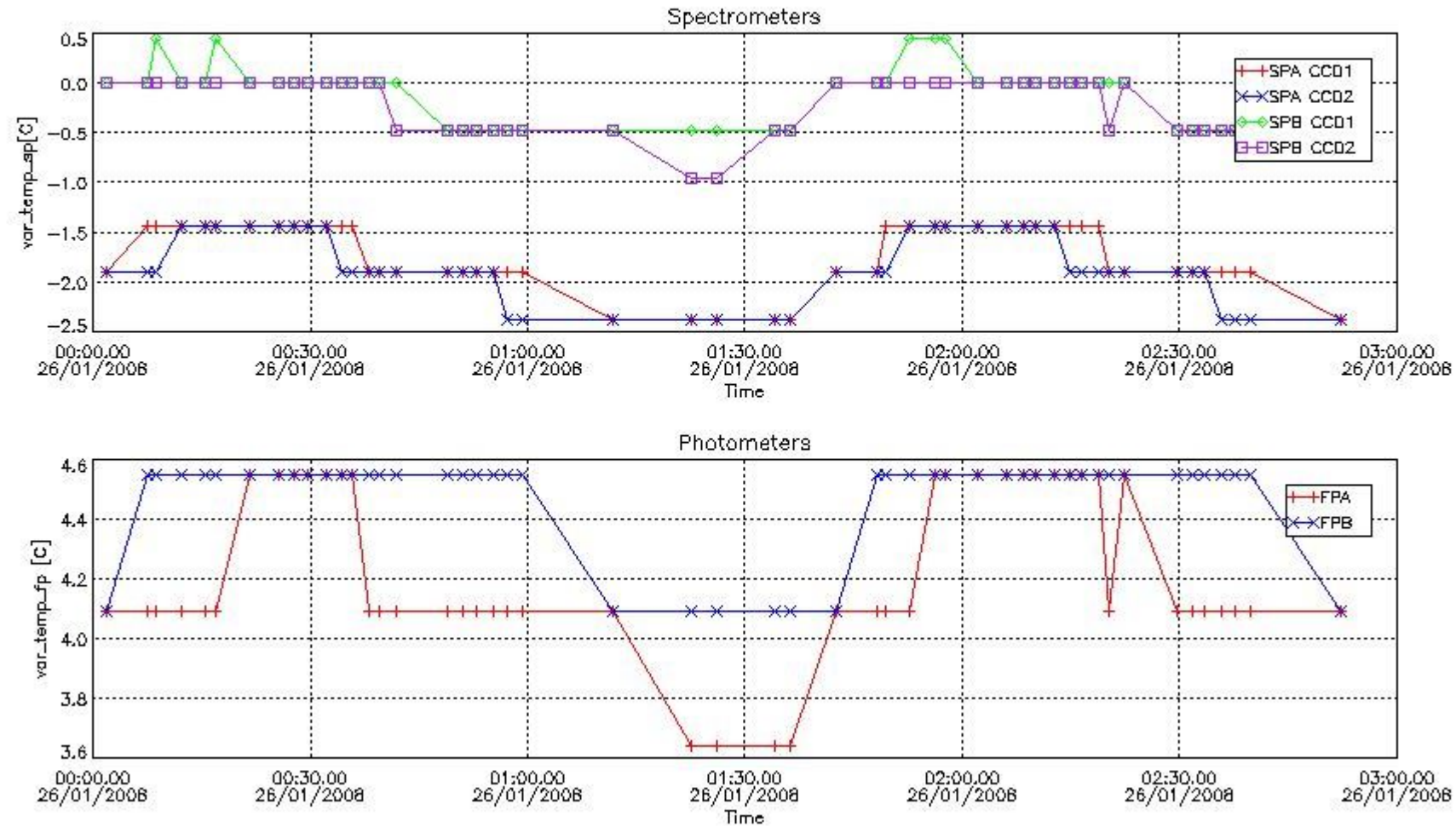
26-JAN-2008 03:55:28	ZetPup	70	30877
26-JAN-2008 03:56:56	PIPup	117	30877
26-JAN-2008 03:59:24	21EpsCMa	23	30877
26-JAN-2008 04:00:47	24Omi2CMa	179	30877
26-JAN-2008 04:02:57	9AlpCMa	1	30877
26-JAN-2008 04:10:09	58AlpOri	14	30877
26-JAN-2008 04:12:15	24GamGem	44	30877
26-JAN-2008 04:14:02	13MuGem	151	30877
26-JAN-2008 04:16:23	12BetTau	28	30877
26-JAN-2008 04:18:16	37TheAur	107	30877
26-JAN-2008 04:20:24	34BetAur	42	30877
26-JAN-2008 04:32:53	1AlpUMi	49	30877
26-JAN-2008 04:43:52	23BetDra	130	30877
26-JAN-2008 04:47:17	3AlpLyr	5	30877
26-JAN-2008 04:55:19	55AlpOph	59	30877
26-JAN-2008 04:57:26	60BetOph	126	30877
26-JAN-2008 05:03:40	35EtaOph	86	30877
26-JAN-2008 05:07:56	23TauSco	136	30877
26-JAN-2008 05:09:21	KapSco	85	30877
26-JAN-2008 05:10:29	TheSco	40	30877
26-JAN-2008 05:12:24	AlpAra	147	30877
26-JAN-2008 05:13:59	BetAra	141	30877
26-JAN-2008 05:17:22	BetTrA	134	30878
26-JAN-2008 05:18:49	Alp1Cen	4	30878
26-JAN-2008 05:21:41	DSA1028	0	30878
26-JAN-2008 05:23:23	Alp1Cru	12	30878
26-JAN-2008 05:27:21	BetCar	29	30878
26-JAN-2008 05:29:34	lotCar	71	30878
26-JAN-2008 05:31:22	DeIVel	46	30878
26-JAN-2008 05:33:58	Gam2Vel	34	30878
26-JAN-2008 05:36:04	ZetPup	70	30878
26-JAN-2008 05:37:32	PIPup	117	30878
26-JAN-2008 05:40:00	21EpsCMa	23	30878
26-JAN-2008 05:41:23	24Omi2CMa	179	30878
26-JAN-2008 05:43:33	9AlpCMa	1	30878
26-JAN-2008 05:50:46	58AlpOri	14	30878
26-JAN-2008 05:52:51	24GamGem	44	30878
26-JAN-2008 05:54:38	13MuGem	151	30878
26-JAN-2008 05:56:59	12BetTau	28	30878
26-JAN-2008 05:58:52	37TheAur	107	30878
26-JAN-2008 06:01:00	34BetAur	42	30878
26-JAN-2008 06:13:29	1AlpUMi	49	30878
26-JAN-2008 15:45:00	24Omi2CMa	179	30884
26-JAN-2008 23:37:07	TheSco	40	30888
26-JAN-2008 23:40:01	GamLup	131	30888

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_1PNPDE20080126_000152_000000402065_00259_30874_2406.N1	26-JAN-2008 00:01:52	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	30874	No
2	GOM_TRA_1PNPDE20080126_000734_000000392065_00259_30874_2534.N1	26-JAN-2008 00:07:34	Twilight	39.000	85	Kap Sco	2.4070	28000.	78	30874	No
3	GOM_TRA_1PNPDE20080126_000842_000000412065_00259_30874_2535.N1	26-JAN-2008 00:08:42	Dark	40.500	40	The Sco	1.8590	7100.0	81	30874	No
4	GOM_TRA_1PNPDE20080126_001212_000000392065_00259_30874_2536.N1	26-JAN-2008 00:12:12	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	30874	No
5	GOM_TRA_1PNPDE20080126_001534_000000382065_00260_30875_2537.N1	26-JAN-2008 00:15:34	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	30875	No
6	GOM_TRA_1PNPDE20080126_001701_000000492065_00260_30875_2538.N1	26-JAN-2008 00:17:01	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	30875	No
7	GOM_TRA_1PNPDE20080126_002135_000000392065_00260_30875_2539.N1	26-JAN-2008 00:21:35	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	30875	No
8	GOM_TRA_1PNPDE20080126_002534_000000372065_00260_30875_2540.N1	26-JAN-2008 00:25:34	Dark	37.000	29	Bet Car	1.6720	10200.	74	30875	No
9	GOM_TRA_1PNPDE20080126_002747_000000442065_00260_30875_2541.N1	26-JAN-2008 00:27:47	Dark	43.500	71	lot Car	2.2460	7700.0	87	30875	No

10	GOM_TRA_1PNPDE20080126_002935_000000422065_00260_30875_2542.N1	26-JAN-2008 00:29:35	Dark	41.500	46	Del Vel	1.9540	10600.	83	30875	No
11	GOM_TRA_1PNPDE20080126_003211_000000412065_00260_30875_2543.N1	26-JAN-2008 00:32:11	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	30875	No
12	GOM_TRA_1PNPDE20080126_003417_000000412065_00260_30875_2544.N1	26-JAN-2008 00:34:17	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	30875	No
13	GOM_TRA_1PNPDE20080126_003545_000000422065_00260_30875_2545.N1	26-JAN-2008 00:35:45	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	30875	No
14	GOM_TRA_1PNPDE20080126_003813_000000422065_00260_30875_2546.N1	26-JAN-2008 00:38:13	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30875	No
15	GOM_TRA_1PNPDE20080126_003936_000000392065_00260_30875_2547.N1	26-JAN-2008 00:39:36	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	30875	No
16	GOM_TRA_1PNPDE20080126_004146_000000412065_00260_30875_2548.N1	26-JAN-2008 00:41:46	Straylight	41.000	1	9Alp CMa	-1.4400	11000.	82	30875	No
17	GOM_TRA_1PNPDE20080126_004858_000000522065_00260_30875_2549.N1	26-JAN-2008 00:48:58	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	30875	No
18	GOM_TRA_1PNPDE20080126_005105_000000392065_00260_30875_2550.N1	26-JAN-2008 00:51:05	Bright	39.000	44	24Gam Gem	1.9280	11000.	78	30875	No
19	GOM_TRA_1PNPDE20080126_005251_000000382065_00260_30875_2551.N1	26-JAN-2008 00:52:51	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	30875	No
20	GOM_TRA_1PNPDE20080126_005512_000000372065_00260_30875_2552.N1	26-JAN-2008 00:55:12	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30875	No
21	GOM_TRA_1PNPDE20080126_005706_000000352065_00260_30875_2553.N1	26-JAN-2008 00:57:06	Bright	34.500	107	37The Aur	2.6490	11000.	69	30875	No
22	GOM_TRA_1PNPDE20080126_005914_000000362065_00260_30875_2554.N1	26-JAN-2008 00:59:14	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30875	No
23	GOM_TRA_1PNPDE20080126_011142_000000342065_00260_30875_2555.N1	26-JAN-2008 01:11:42	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30875	No
24	GOM_TRA_1PNPDE20080126_012241_000000362065_00260_30875_2556.N1	26-JAN-2008 01:22:41	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	30875	No
25	GOM_TRA_1PNPDE20080126_012606_000000362065_00260_30875_2557.N1	26-JAN-2008 01:26:06	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30875	No
26	GOM_TRA_1PNPDE20080126_013408_000000352065_00260_30875_2558.N1	26-JAN-2008 01:34:08	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	30875	No
27	GOM_TRA_1PNPDE20080126_013615_000000342065_00260_30875_2559.N1	26-JAN-2008 01:36:15	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30875	No
28	GOM_TRA_1PNPDE20080126_014229_000000412065_00260_30875_2665.N1	26-JAN-2008 01:42:29	Bright	41.000	86	35Eta Oph	2.4300	10200.	82	30875	No
29	GOM_TRA_1PNPDE20080126_014810_000000382065_00260_30875_2666.N1	26-JAN-2008 01:48:10	Twilight	38.000	85	Kap Sco	2.4070	28000.	76	30875	No
30	GOM_TRA_1PNPDE20080126_014918_000000402065_00260_30875_2667.N1	26-JAN-2008 01:49:18	Dark	40.000	40	The Sco	1.8590	7100.0	80	30875	No
31	GOM_TRA_1PNPDE20080126_015248_000000382065_00260_30875_2668.N1	26-JAN-2008 01:52:48	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	30875	No
32	GOM_TRA_1PNPDE20080126_015610_000000382065_00261_30876_2669.N1	26-JAN-2008 01:56:10	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	30876	No
33	GOM_TRA_1PNPDE20080126_015737_000000432065_00261_30876_2670.N1	26-JAN-2008 01:57:37	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	30876	No
34	GOM_TRA_1PNPDE20080126_020212_000000402065_00261_30876_2671.N1	26-JAN-2008 02:02:12	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	30876	No
35	GOM_TRA_1PNPDE20080126_020610_000000402065_00261_30876_2672.N1	26-JAN-2008 02:06:10	Dark	40.000	29	Bet Car	1.6720	10200.	80	30876	No
36	GOM_TRA_1PNPDE20080126_020823_000000392065_00261_30876_2673.N1	26-JAN-2008 02:08:23	Dark	39.000	71	lot Car	2.2460	7700.0	78	30876	No
37	GOM_TRA_1PNPDE20080126_021011_000000402065_00261_30876_2674.N1	26-JAN-2008 02:10:11	Dark	39.500	46	Del Vel	1.9540	10600.	79	30876	No
38	GOM_TRA_1PNPDE20080126_021247_000000422065_00261_30876_2675.N1	26-JAN-2008 02:12:47	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	30876	No
39	GOM_TRA_1PNPDE20080126_021453_000000402065_00261_30876_2676.N1	26-JAN-2008 02:14:53	Straylight	40.000	70	Zet Pup	2.2460	39000.	80	30876	No
40	GOM_TRA_1PNPDE20080126_021622_000000442065_00261_30876_2677.N1	26-JAN-2008 02:16:22	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	30876	No
41	GOM_TRA_1PNPDE20080126_021849_000000412065_00261_30876_2678.N1	26-JAN-2008 02:18:49	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	30876	No
42	GOM_TRA_1PNPDE20080126_022012_000000382065_00261_30876_2679.N1	26-JAN-2008 02:20:12	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	30876	No
43	GOM_TRA_1PNPDE20080126_022222_000000432065_00261_30876_2680.N1	26-JAN-2008 02:22:22	Straylight	43.000	1	9Alp CMa	-1.4400	11000.	86	30876	No
44	GOM_TRA_1PNPDE20080126_022934_000000522065_00261_30876_2681.N1	26-JAN-2008 02:29:34	Bright	52.000	14	58Alp Ori	0.87000	3000.0	104	30876	No
45	GOM_TRA_1PNPDE20080126_023140_000000382065_00261_30876_2682.N1	26-JAN-2008 02:31:40	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	30876	No
46	GOM_TRA_1PNPDE20080126_023327_000000402065_00261_30876_2683.N1	26-JAN-2008 02:33:27	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	30876	No
47	GOM_TRA_1PNPDE20080126_023548_000000372065_00261_30876_2684.N1	26-JAN-2008 02:35:48	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30876	No
48	GOM_TRA_1PNPDE20080126_023742_000000352065_00261_30876_2685.N1	26-JAN-2008 02:37:42	Bright	34.500	107	37The Aur	2.6490	11000.	69	30876	No
49	GOM_TRA_1PNPDE20080126_023950_000000352065_00261_30876_2686.N1	26-JAN-2008 02:39:50	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	30876	No
50	GOM_TRA_1PNPDE20080126_025218_000000352065_00261_30876_2687.N1	26-JAN-2008 02:52:18	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30876	No

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



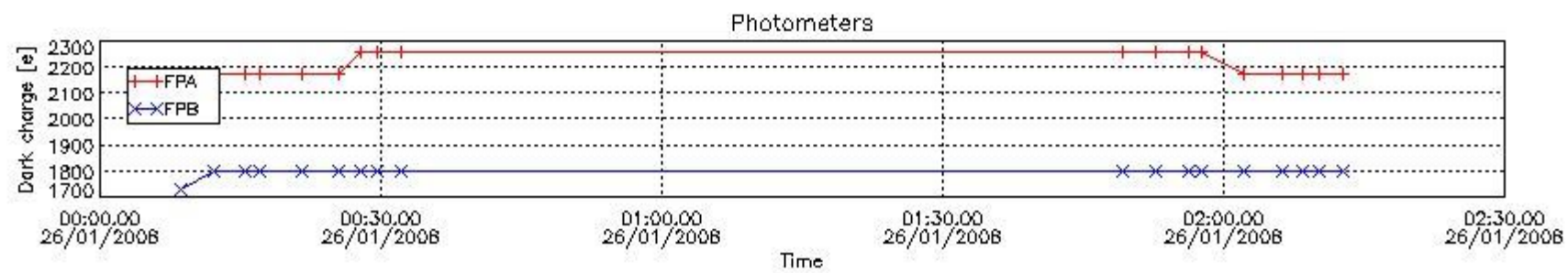
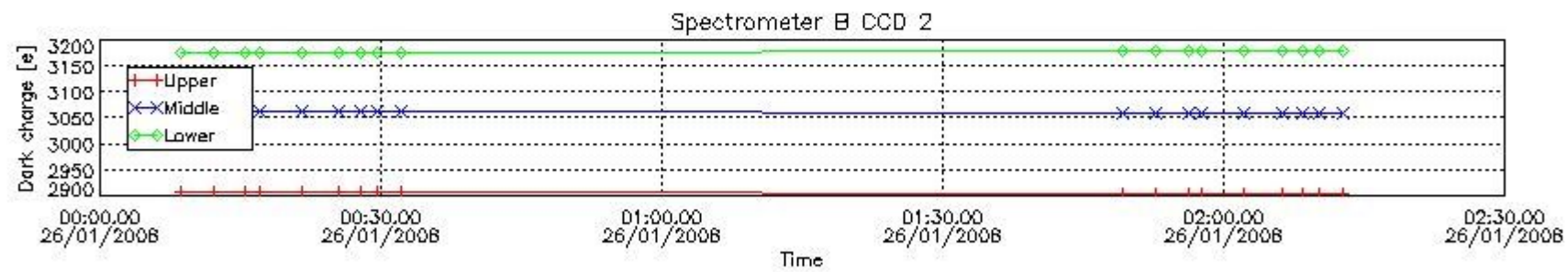
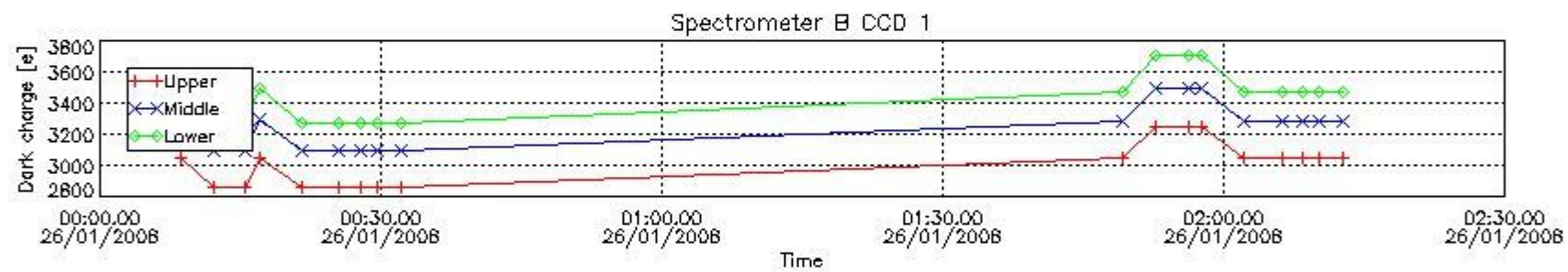
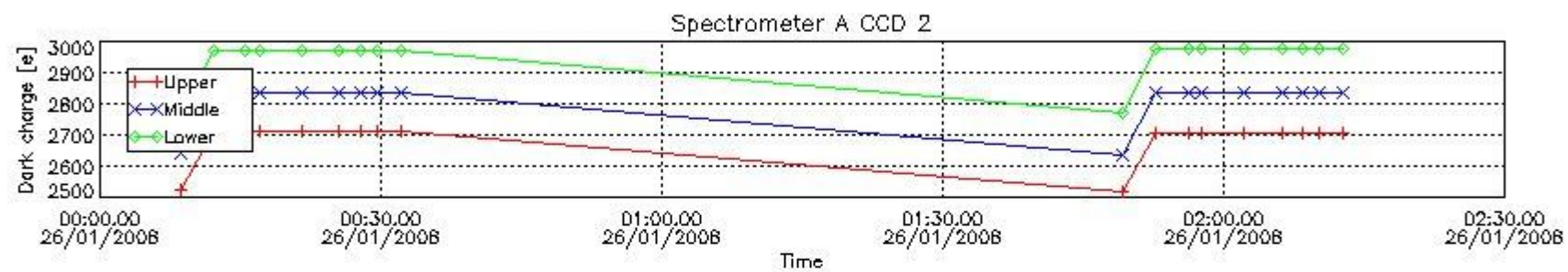
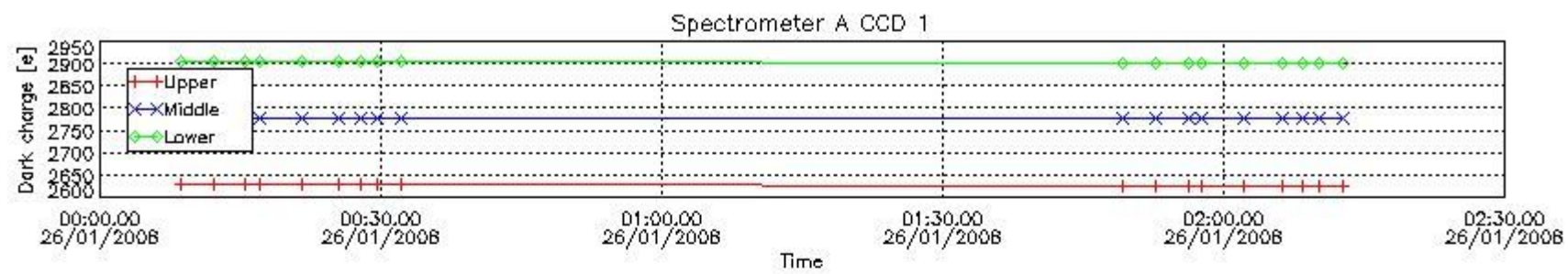
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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



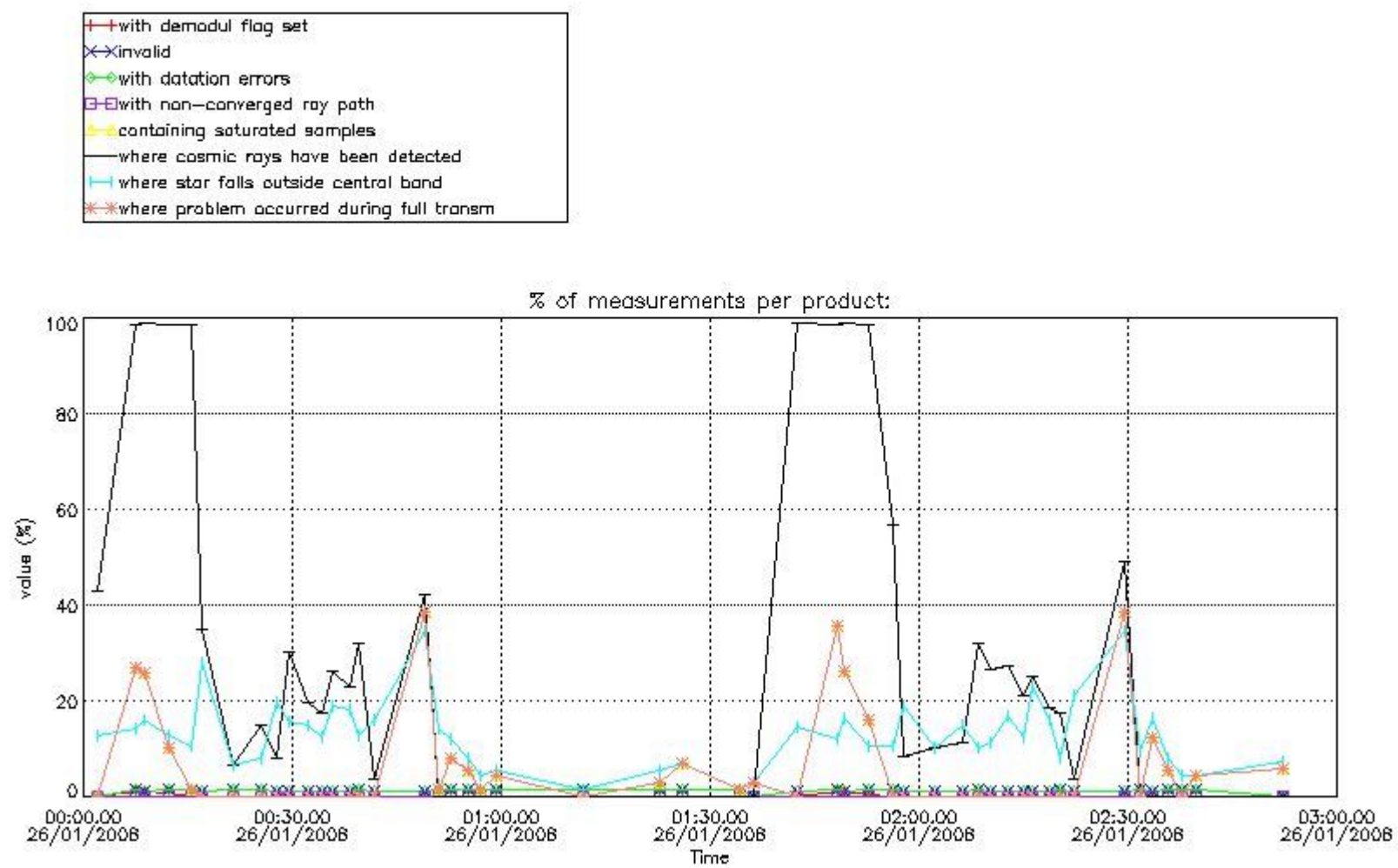
5. Demodulation flag and quality information monitoring

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

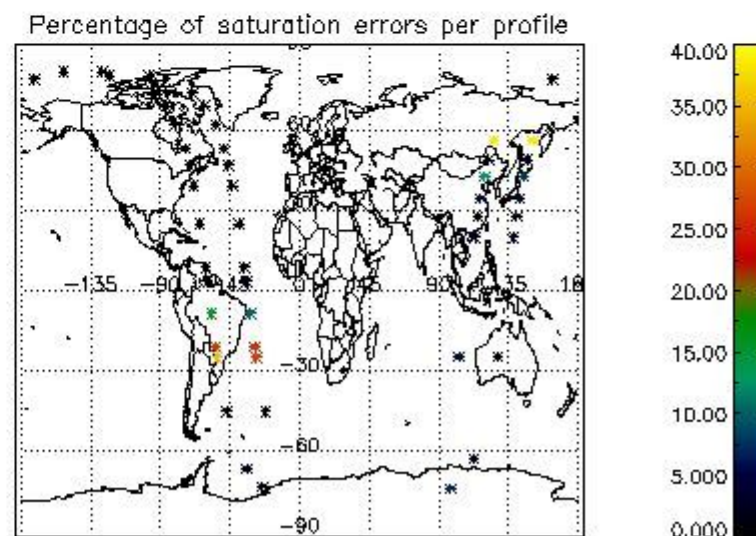
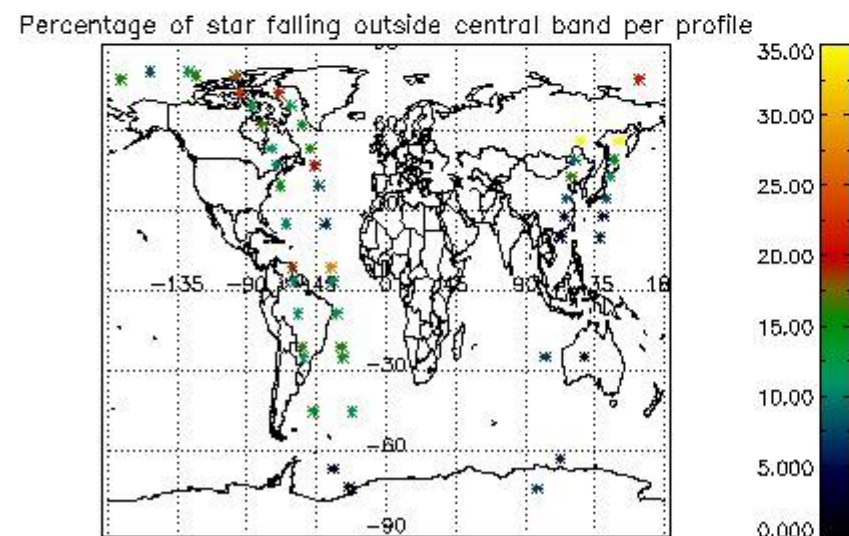
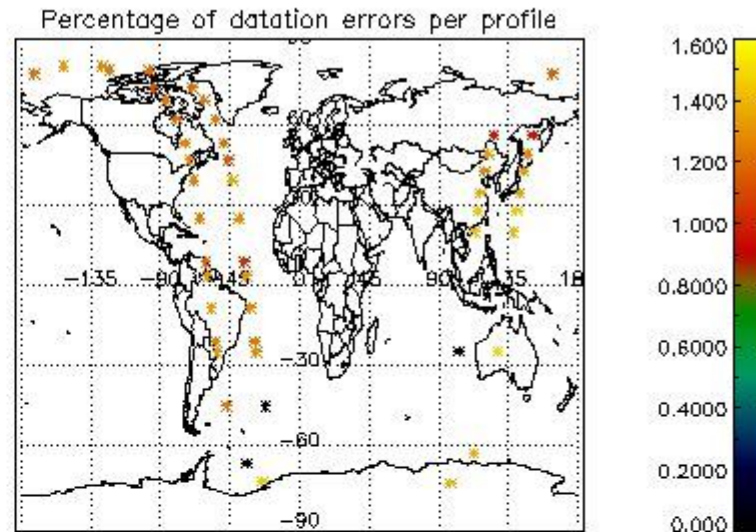
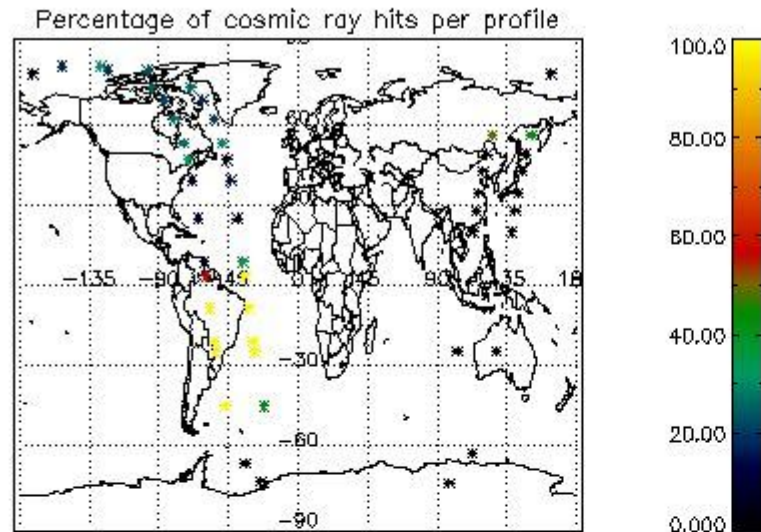
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



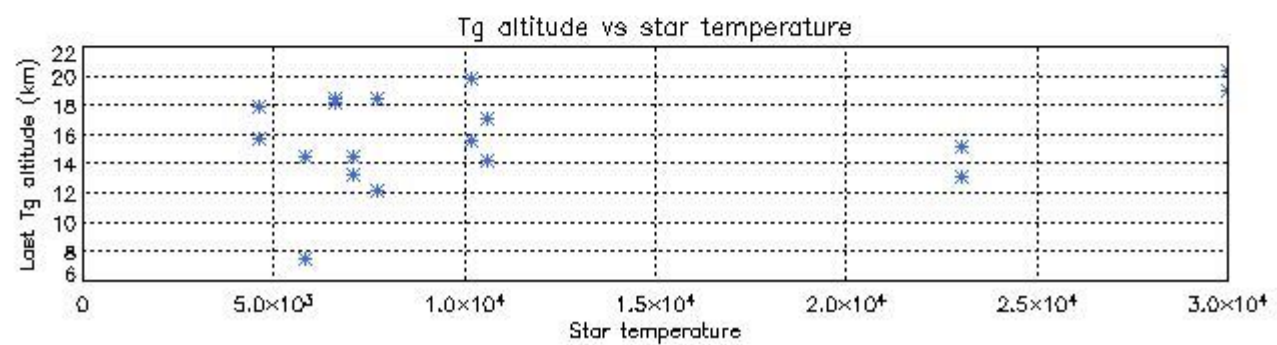
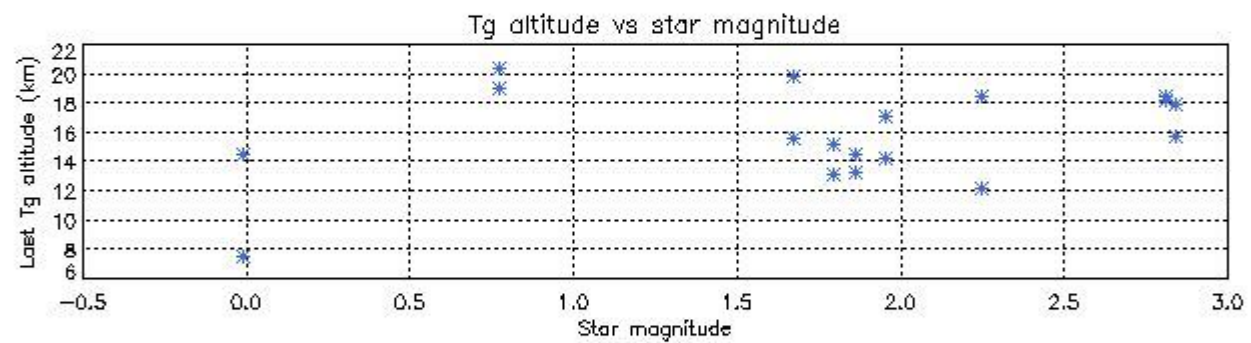
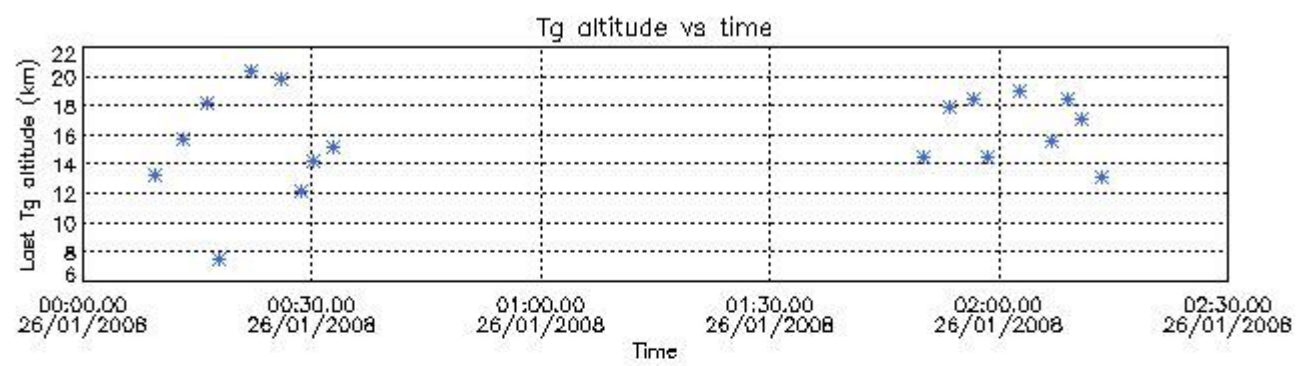
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.824	18.162	15.595
St. deviation:	3.2014	5.7883	1.1584
Maximum:	20.359	25.809	16.414
Minimum:	7.5496	4.6934	14.776
Number of data:	18.000	20.000	2.0000

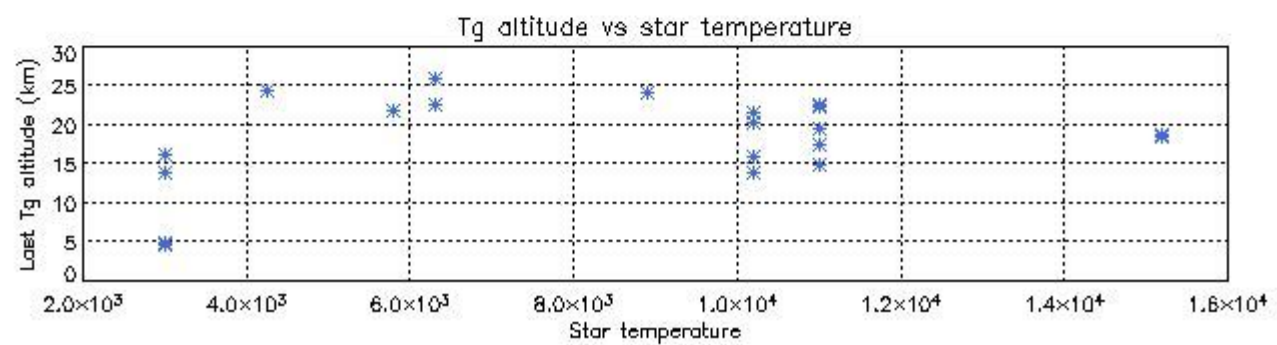
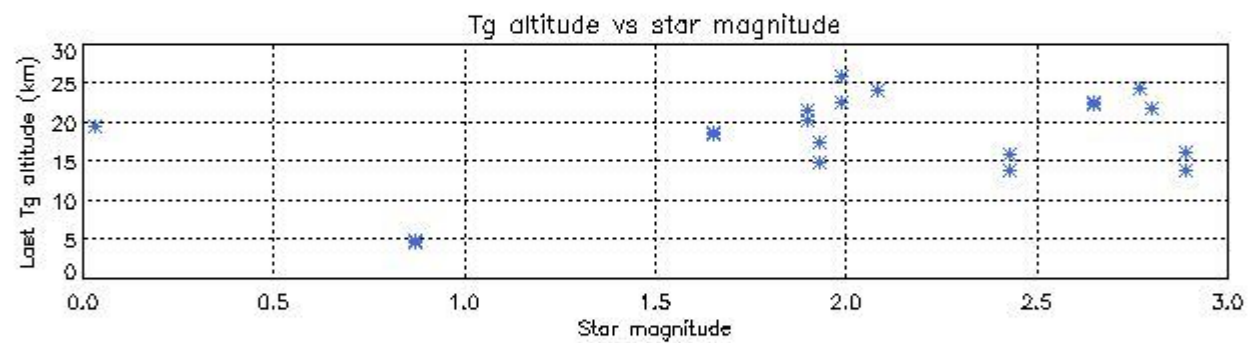
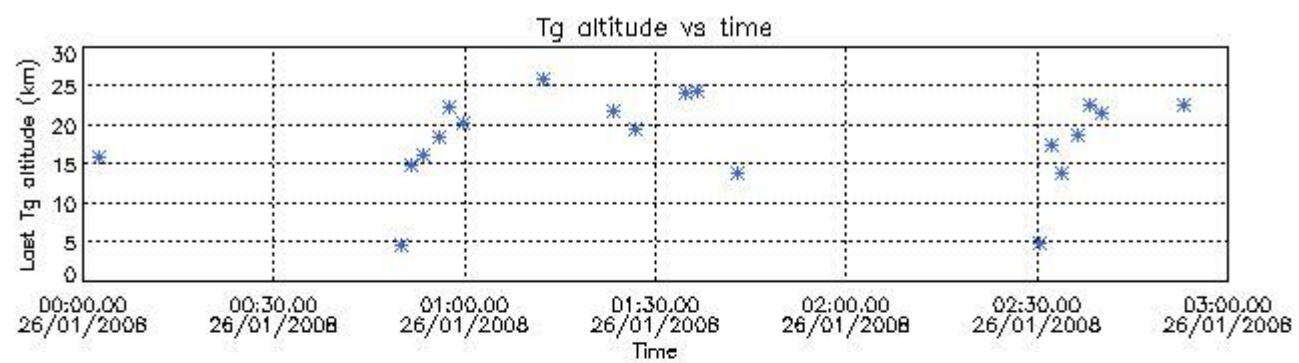
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



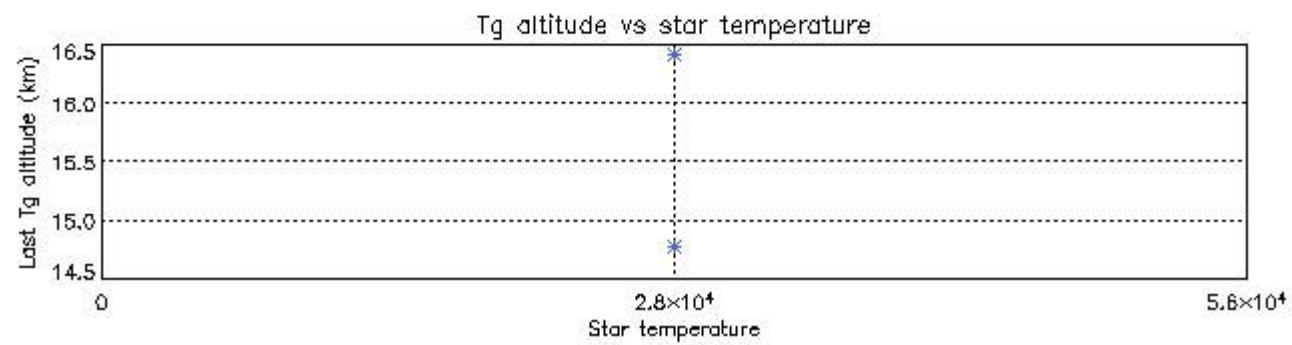
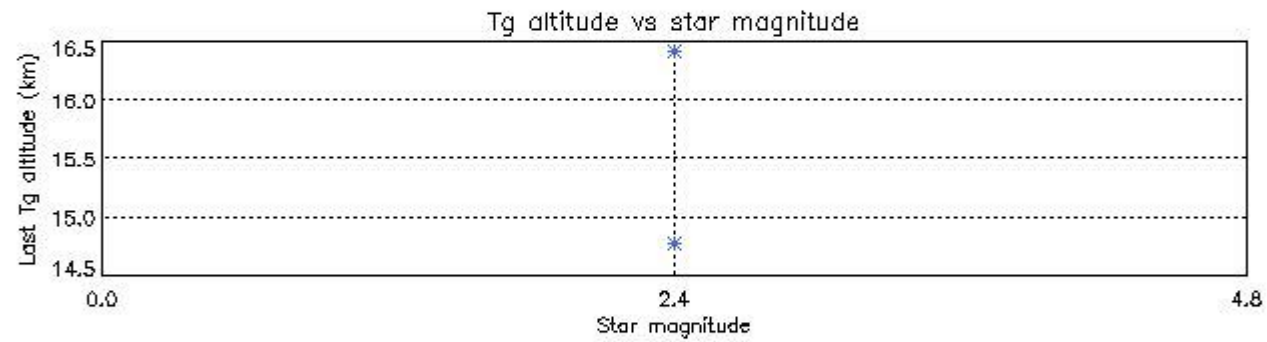
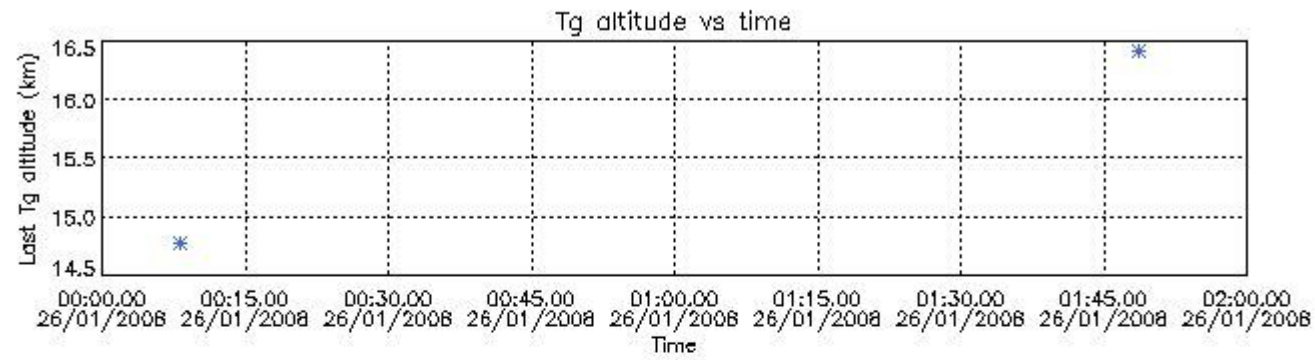
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

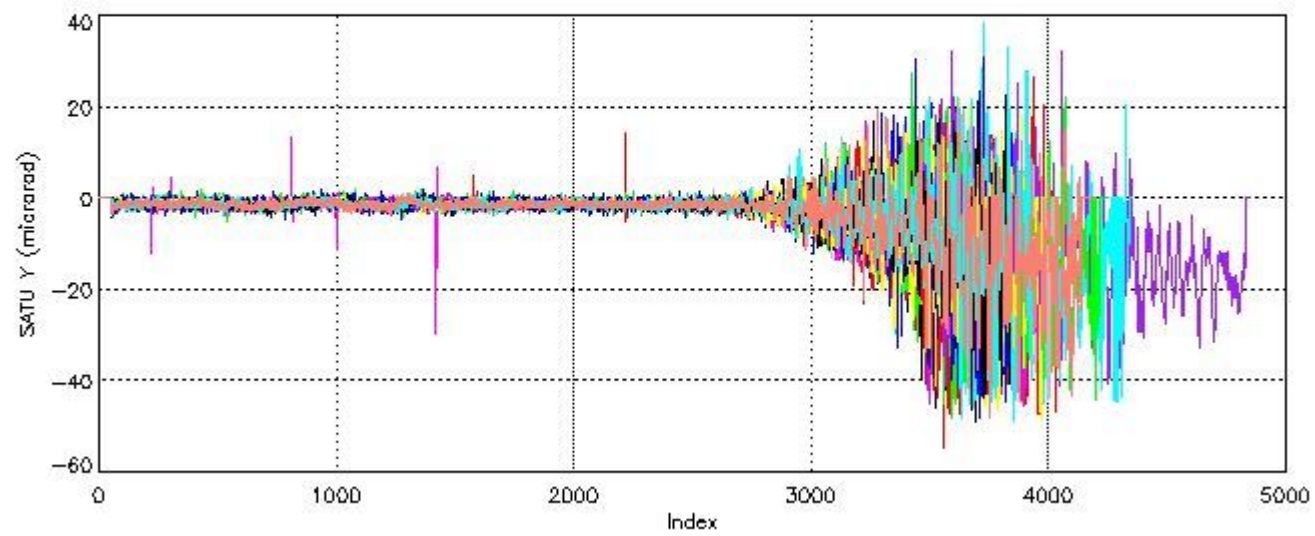
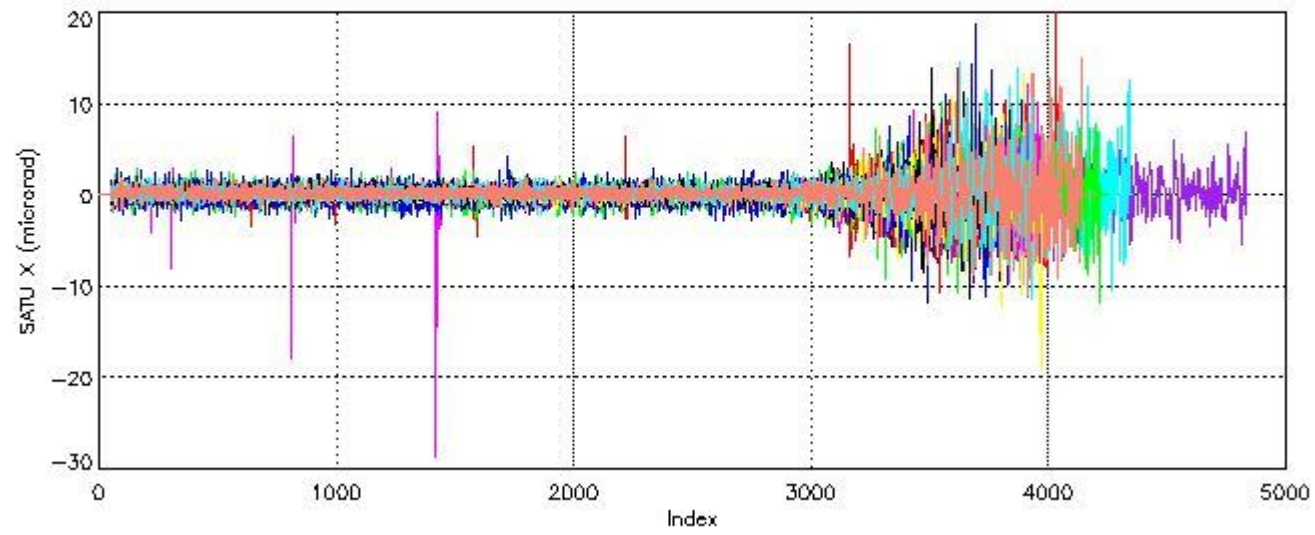


7. Star Acquisition and Tracking Unit (SATU)

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:	0.054187	-1.3065	0.017579	-1.3399
St. deviation:	0.48404	0.67769	0.58670	0.80753
Maximum:	6.4000	13.200	3.9000	2.2000
Minimum:	-18.000	-12.000	-4.0000	-5.7000

Number of data:	15800.	15800.	16550.	16550.
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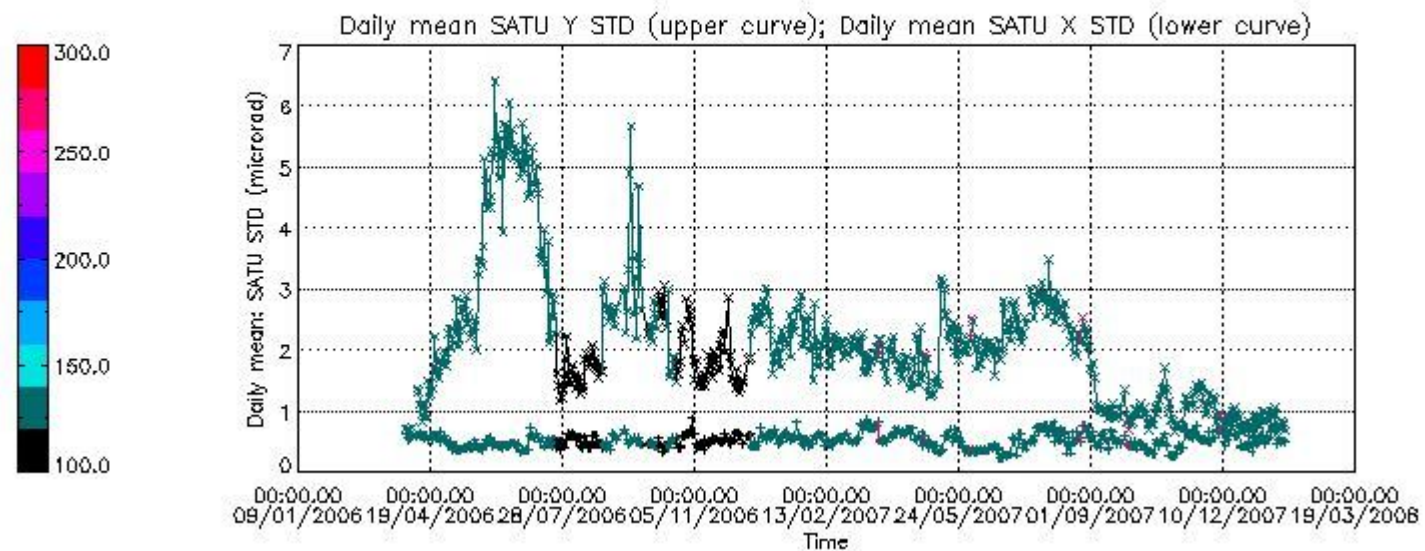
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

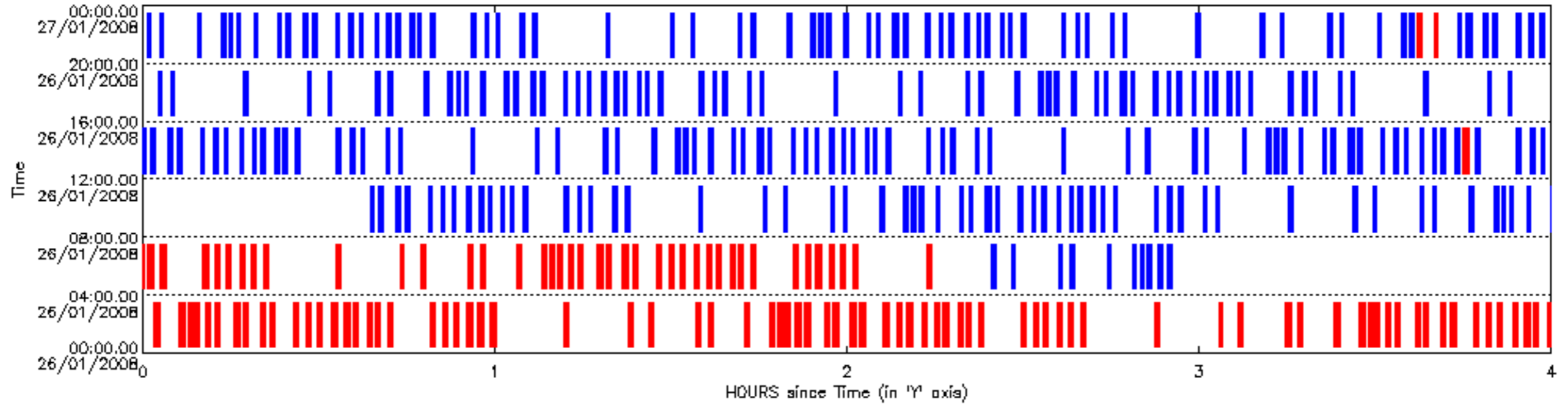
Lower curve: STD of SATU X axis

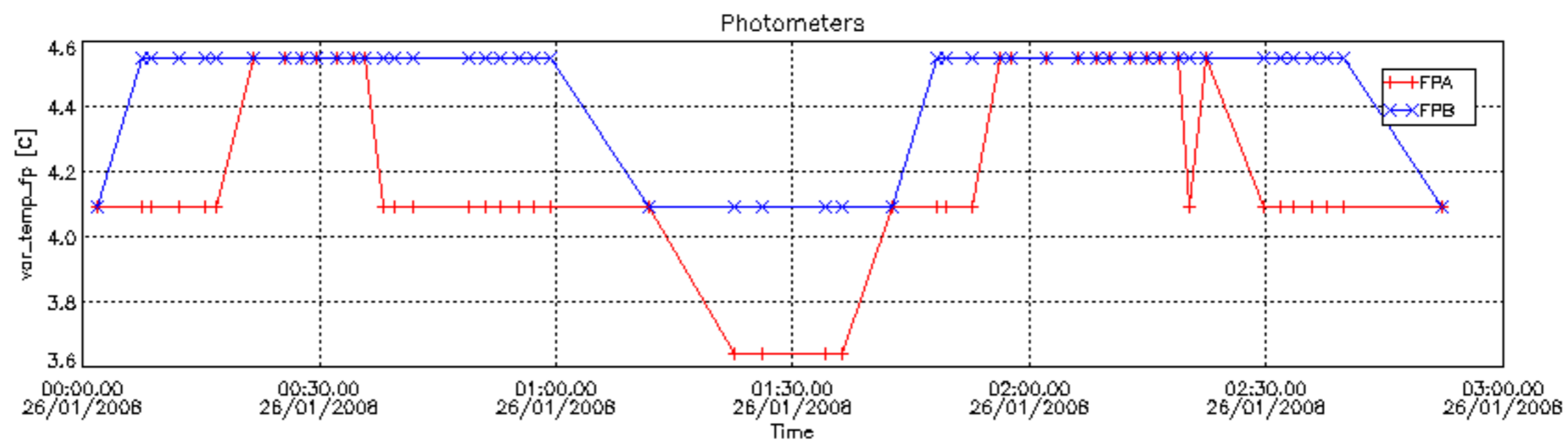
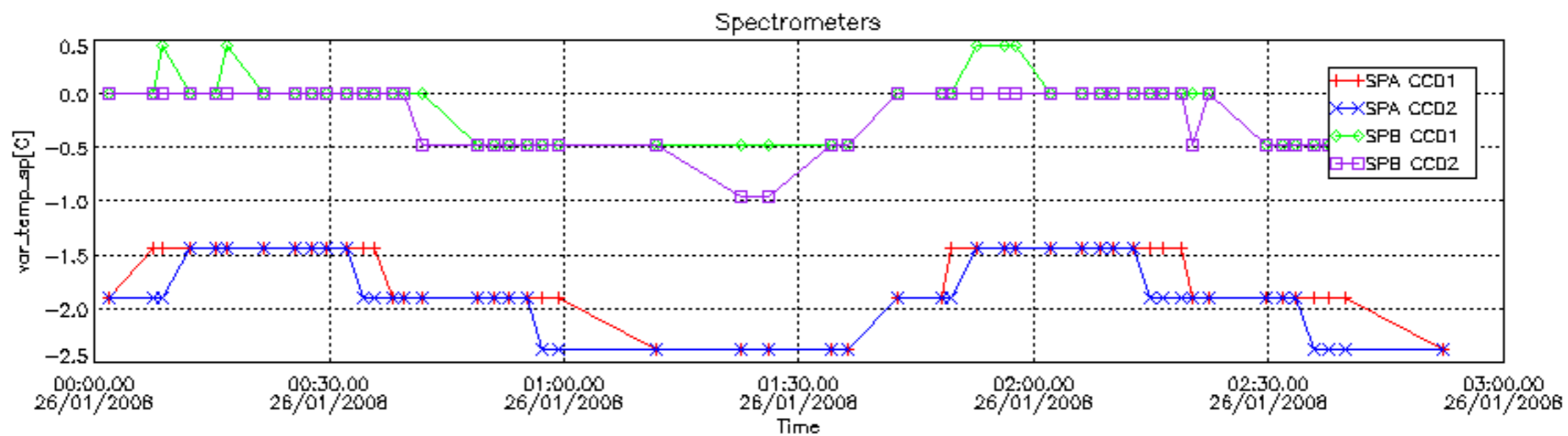


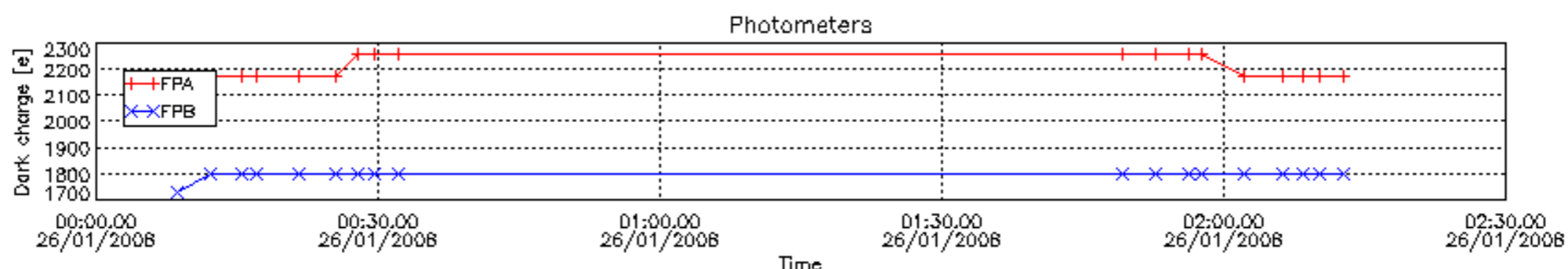
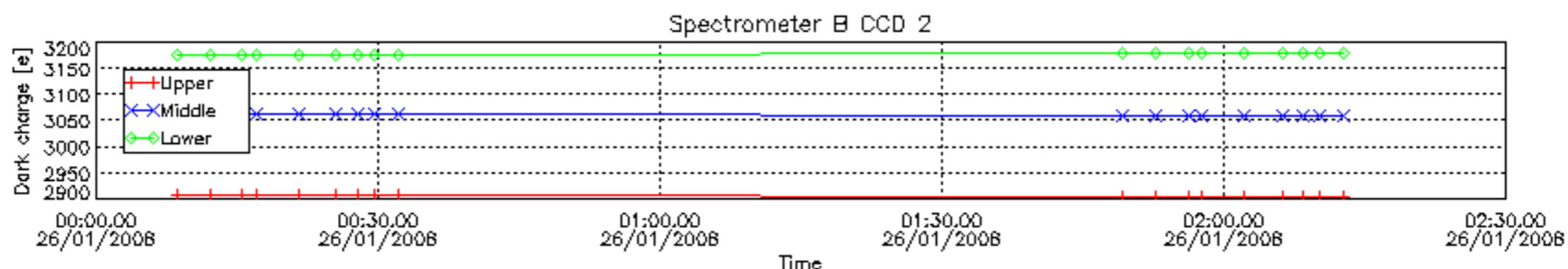
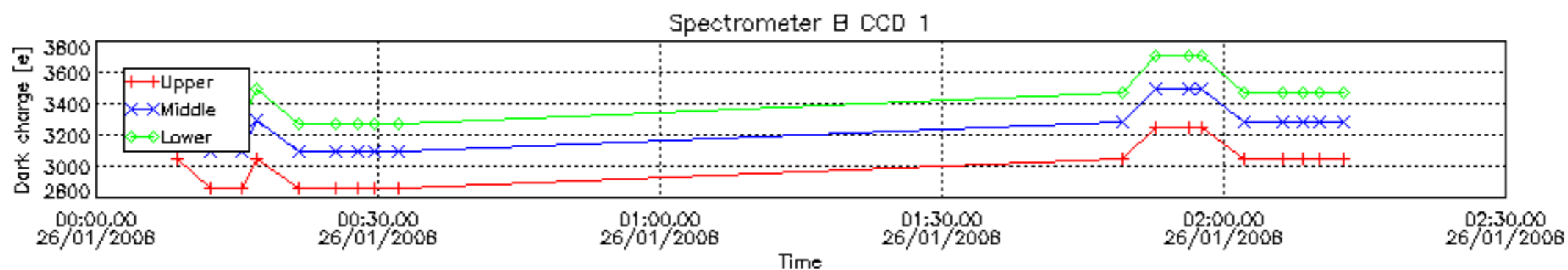
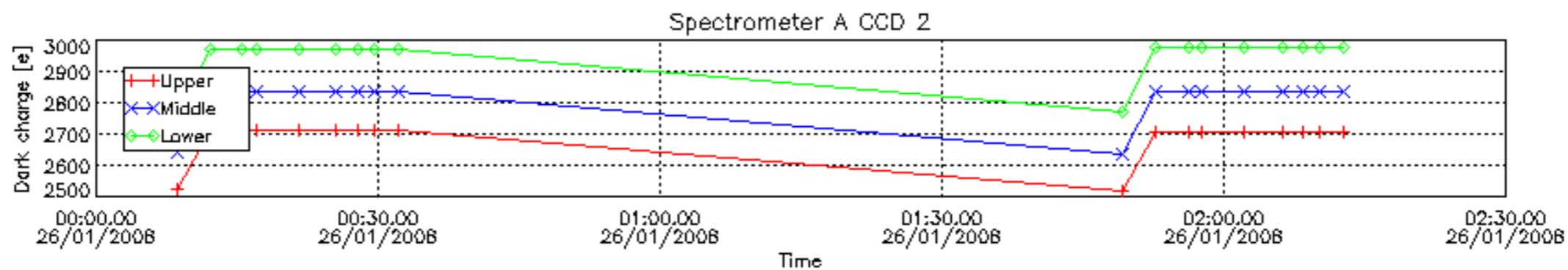
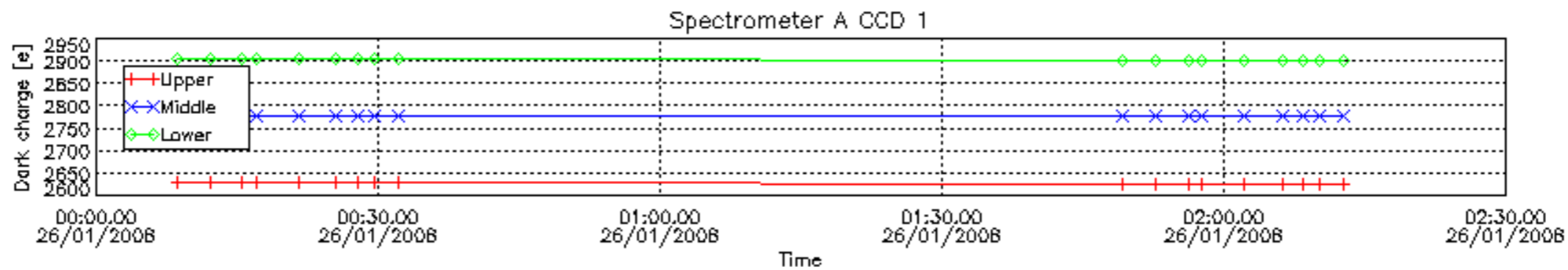
8. Auxiliary Data Files used for the production reported in section 2.4

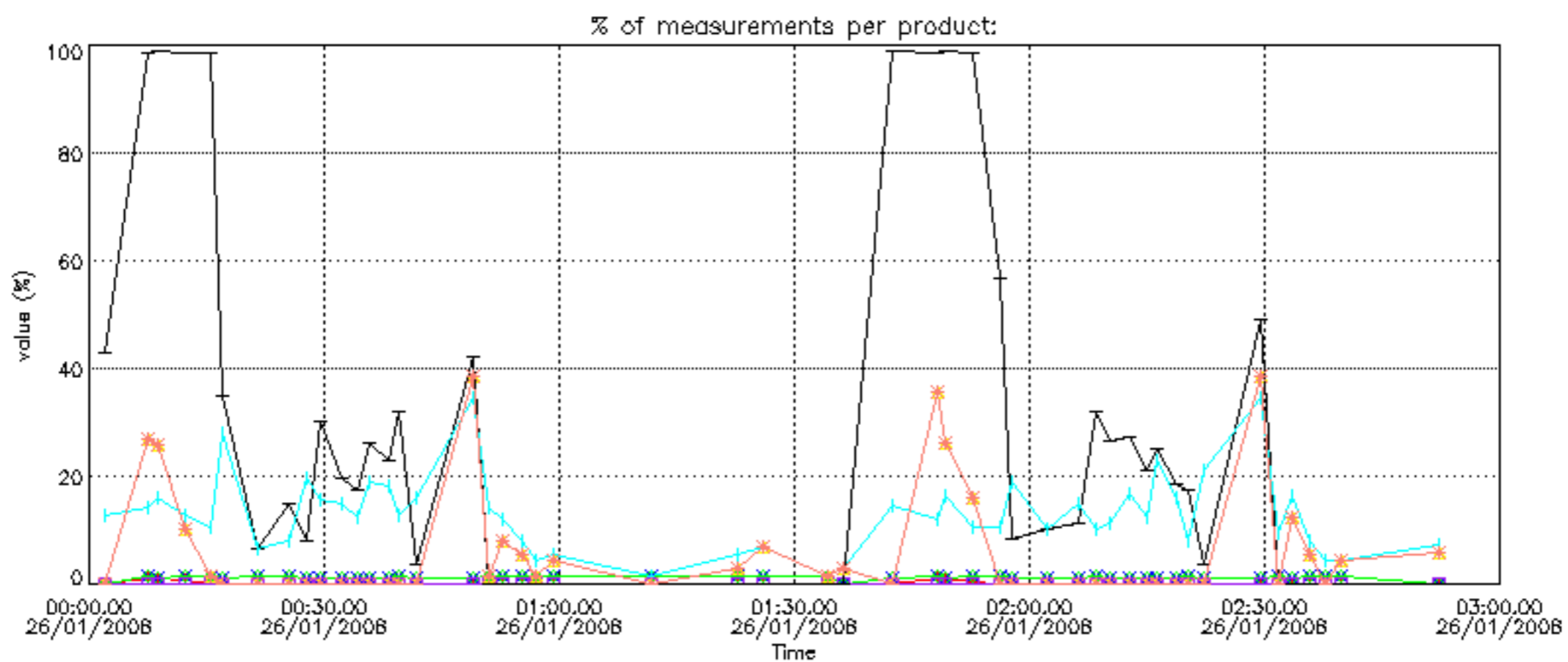
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-JAN-2008 00:01:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	26-JAN-2008 00:01:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-JAN-2008 00:01:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JAN-2008 00:01:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-JAN-2008 00:01:52
ECMWF_FILE	AUX_ECF_AXNECM20080125_073112_20080125_210000_20080126_090000	1	26-JAN-2008 00:01:52
OPTIONAL_ECMWF_FILE	MISSING	1	26-JAN-2008 00:01:52
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20080125_020111_20080124_194425_20080203_211038	1	26-JAN-2008 00:01:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080125_235940_000057382065_00259_30874_5019.N1	2	26-JAN-2008 00:07:34

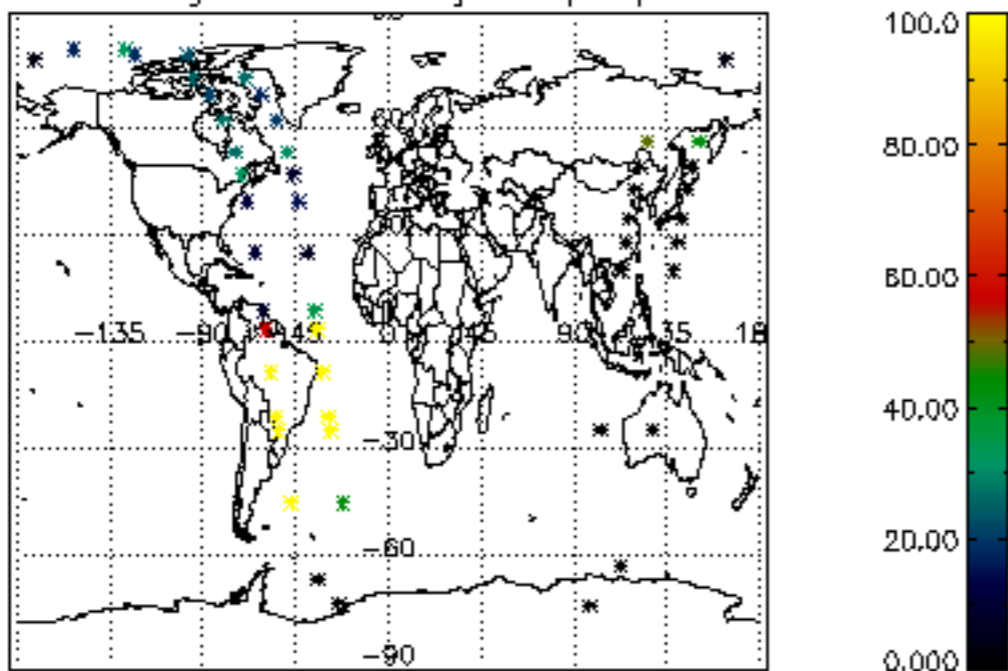




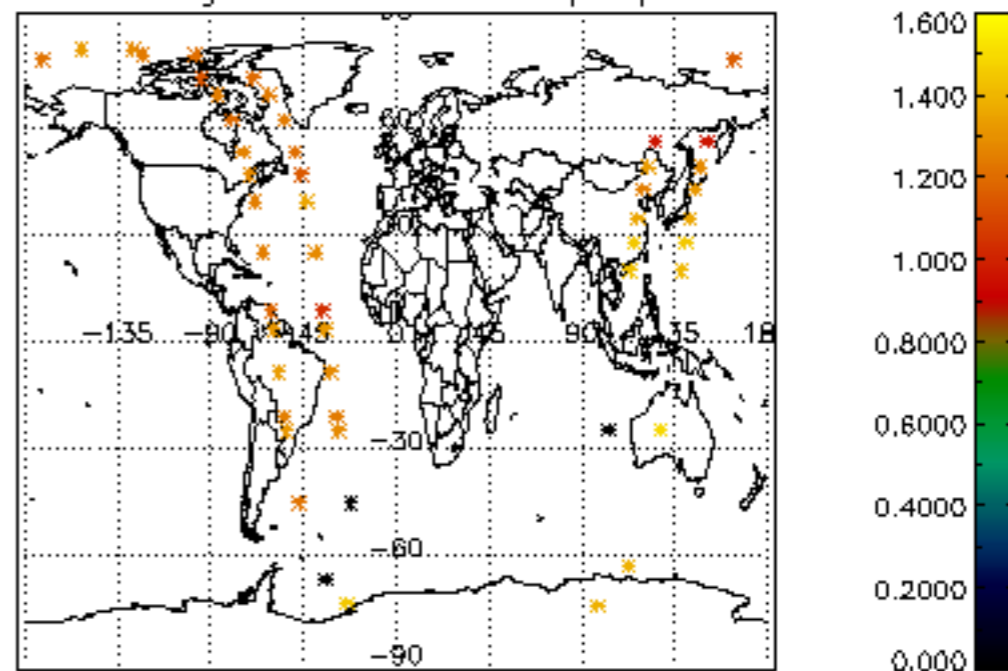




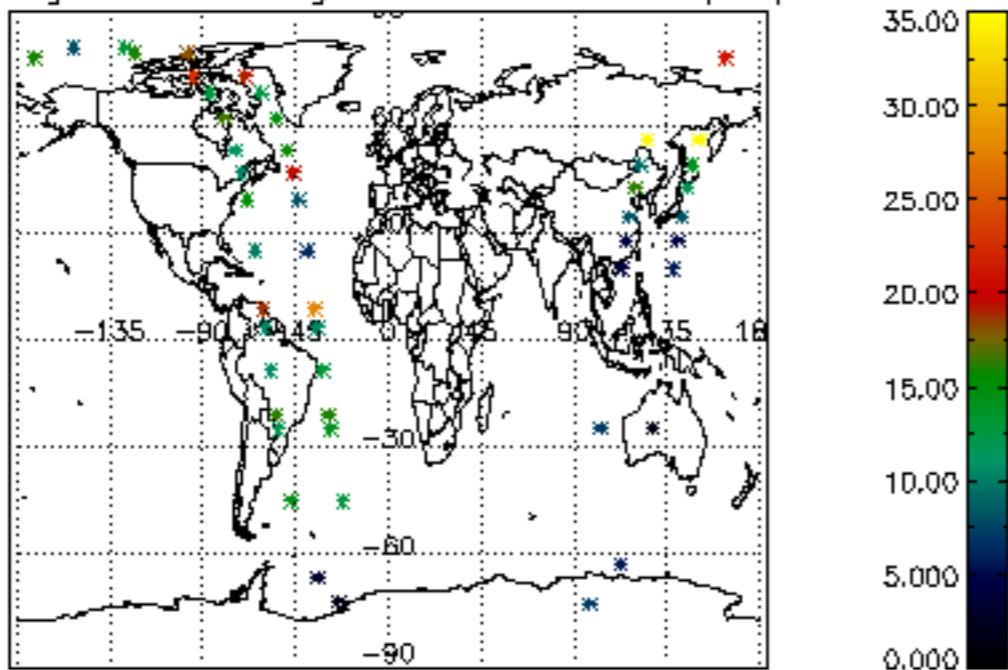
Percentage of cosmic ray hits per profile



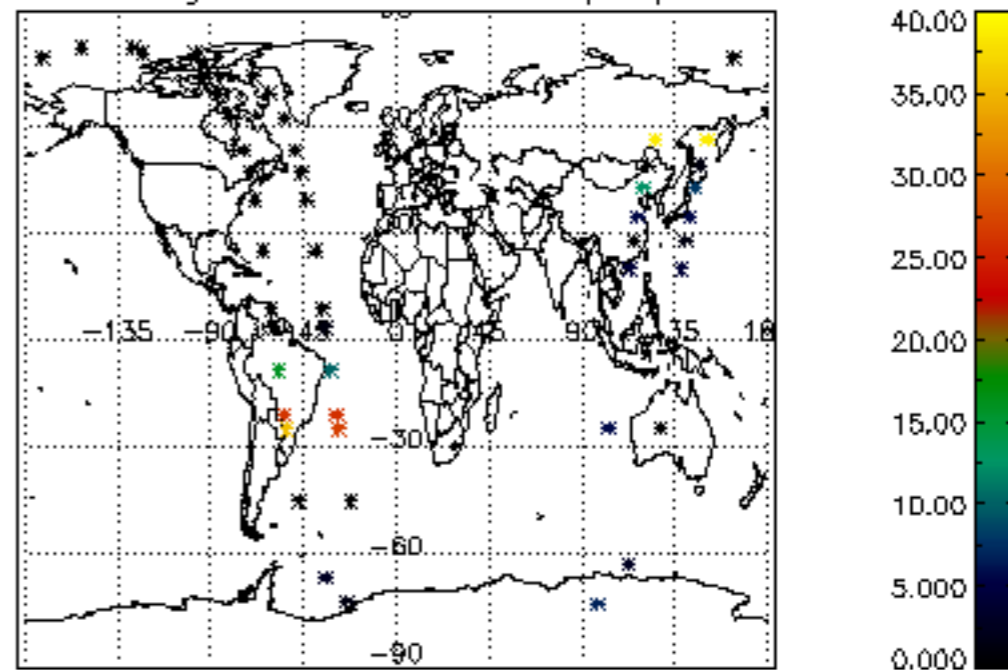
Percentage of datation errors per profile



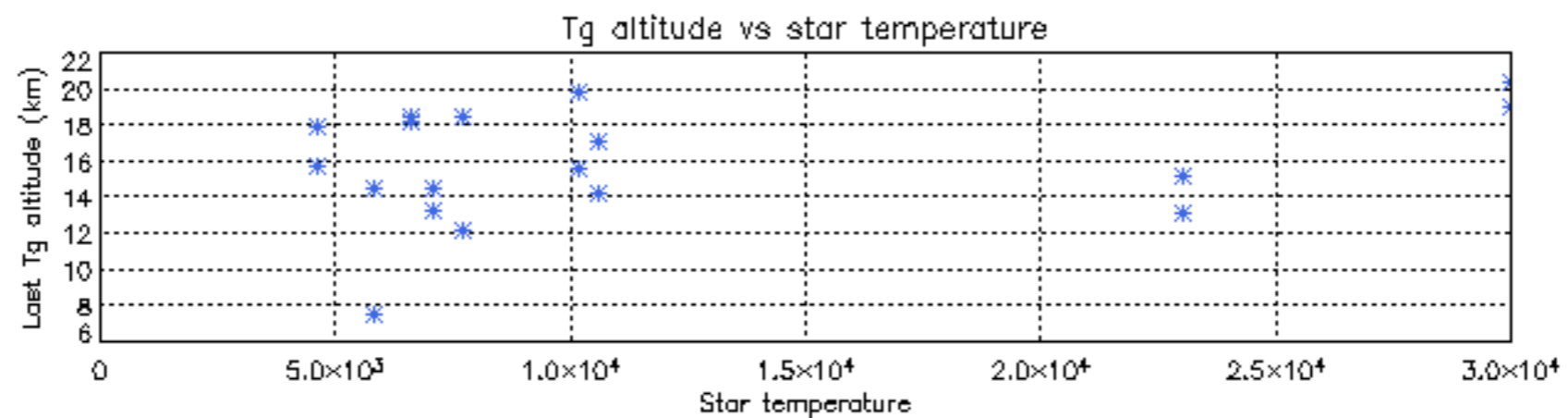
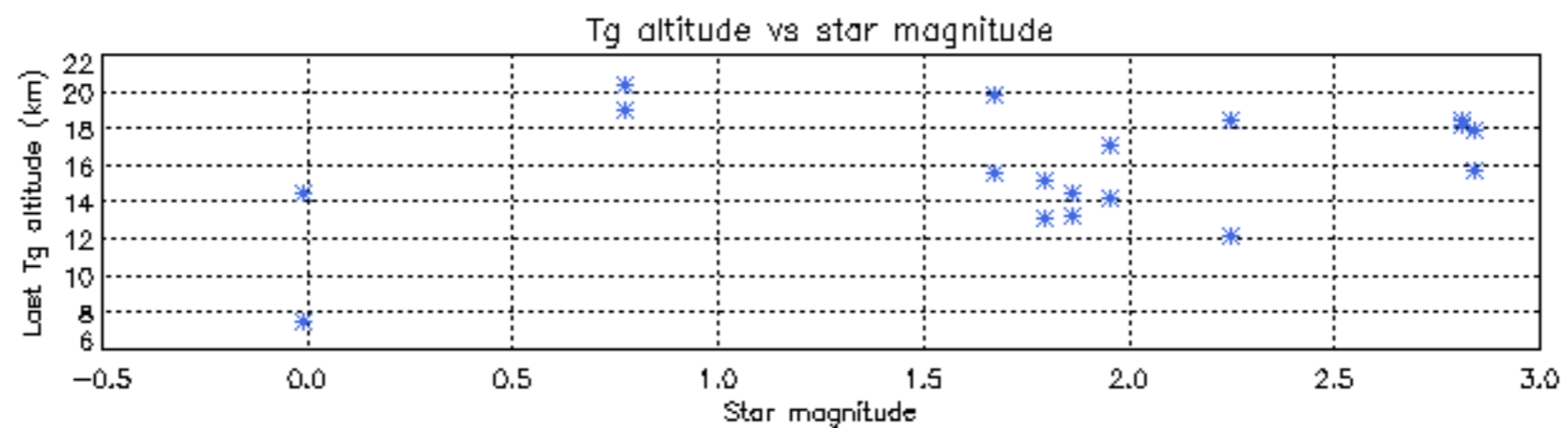
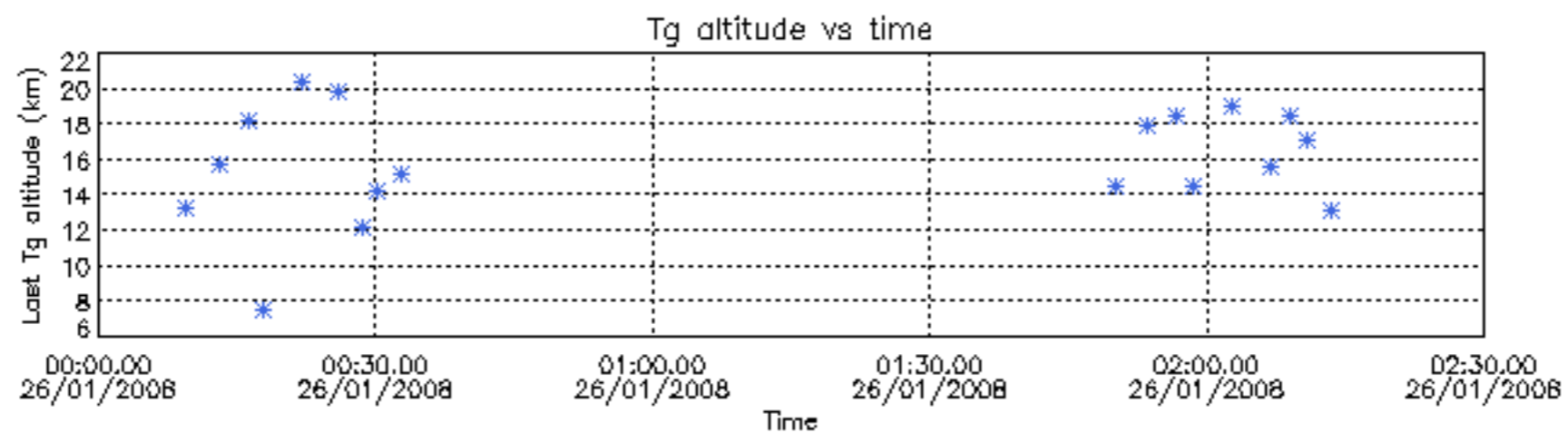
Percentage of star falling outside central band per profile



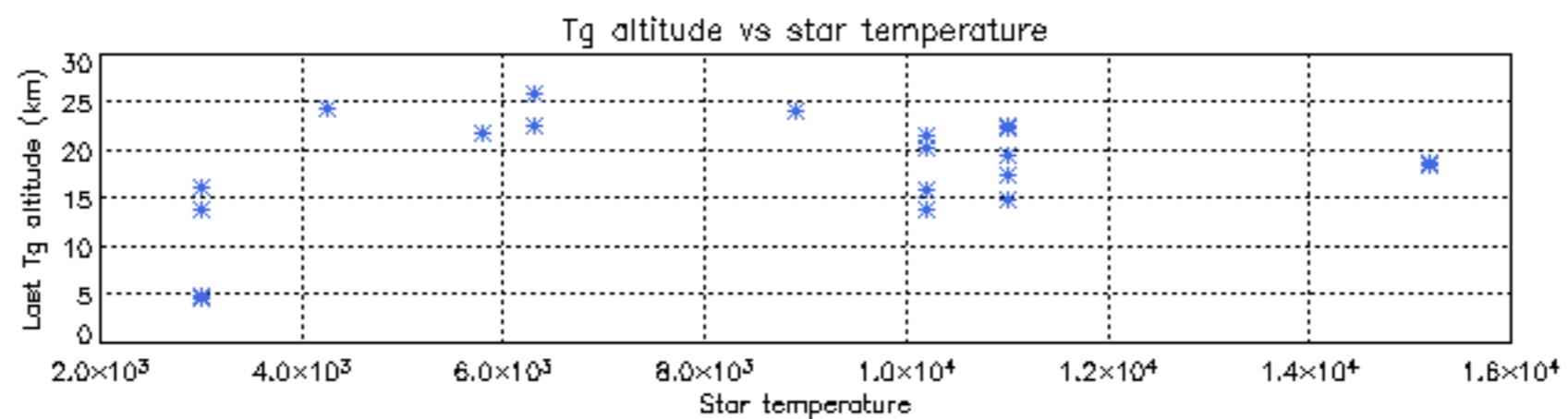
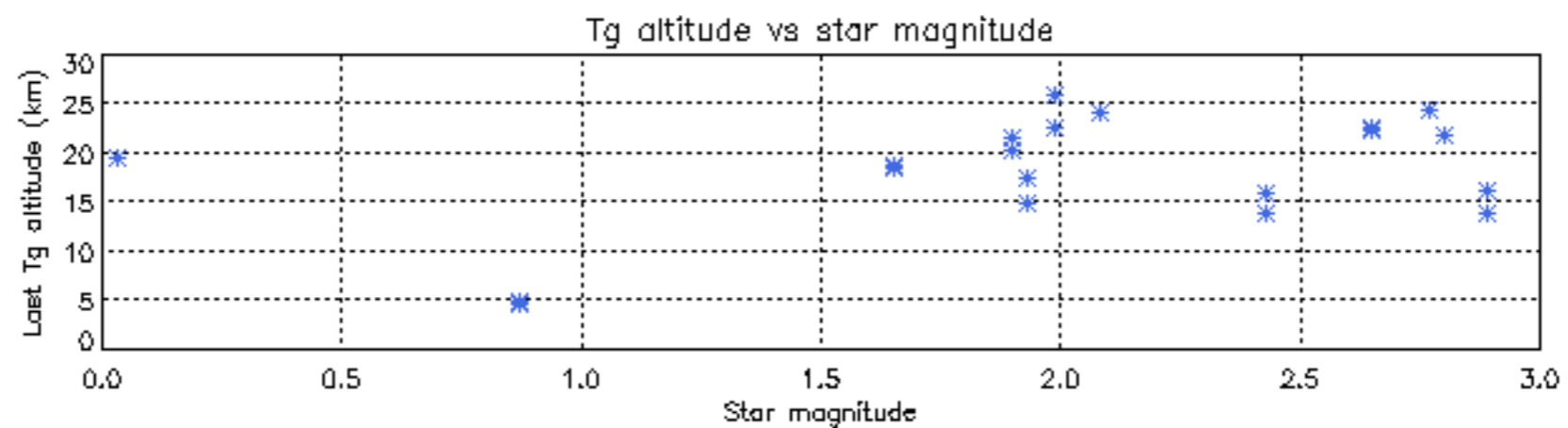
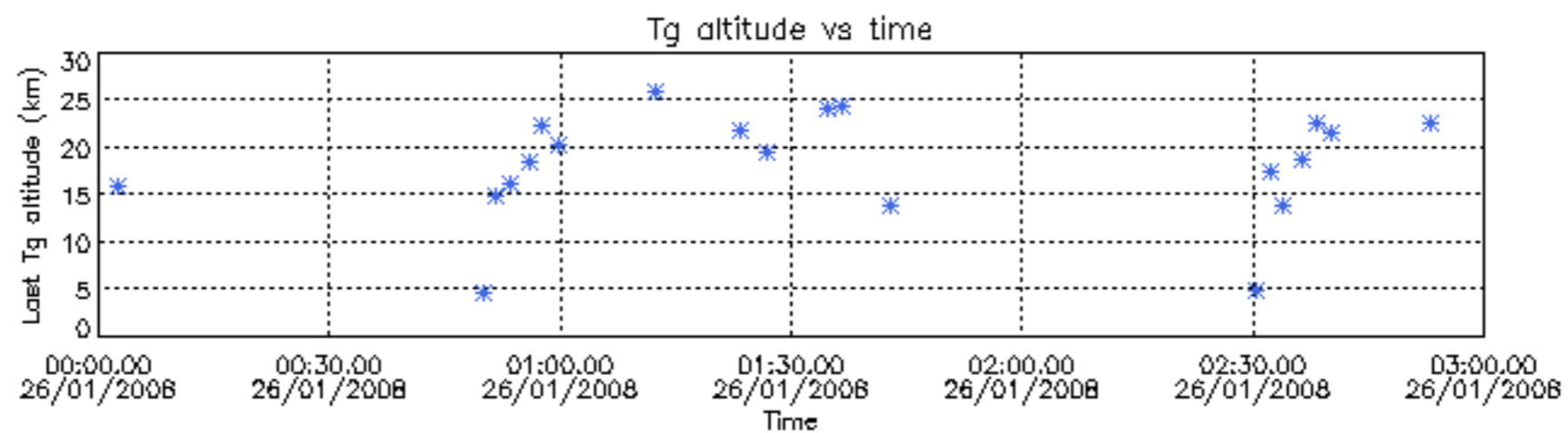
Percentage of saturation errors per profile



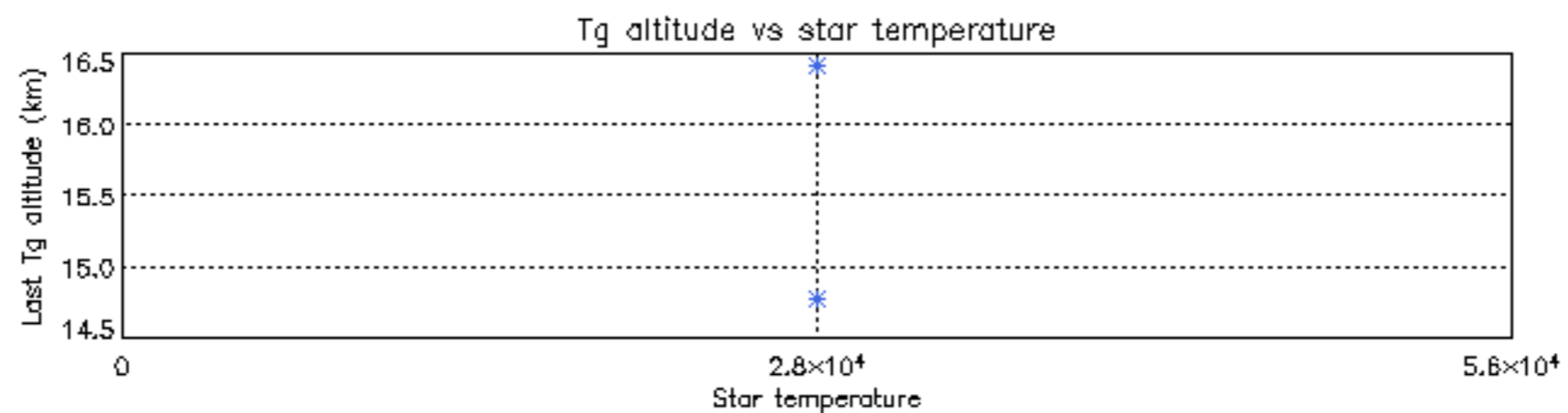
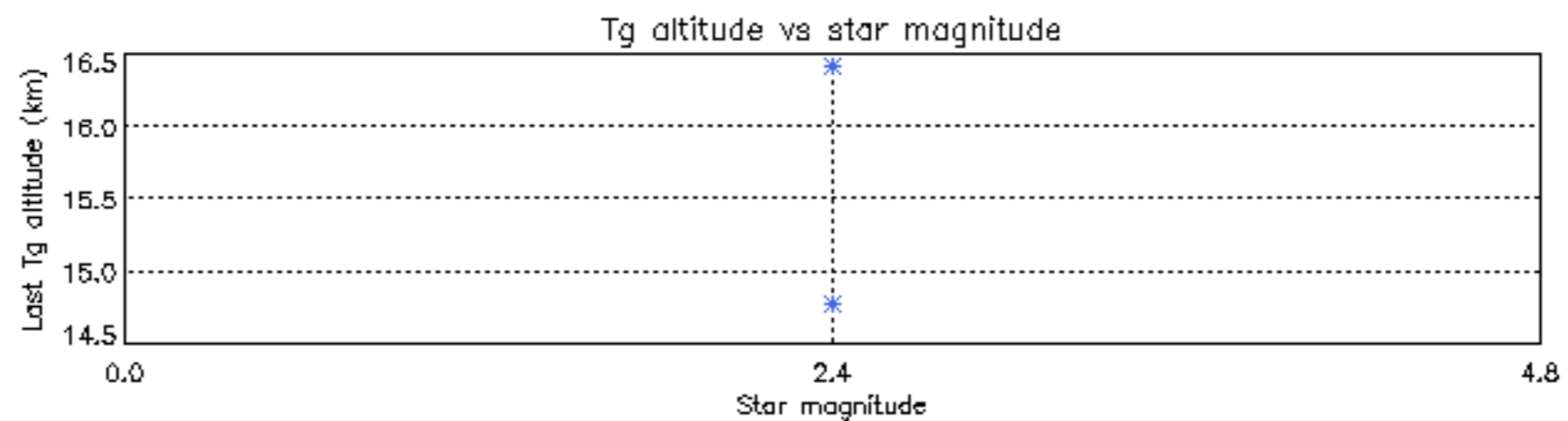
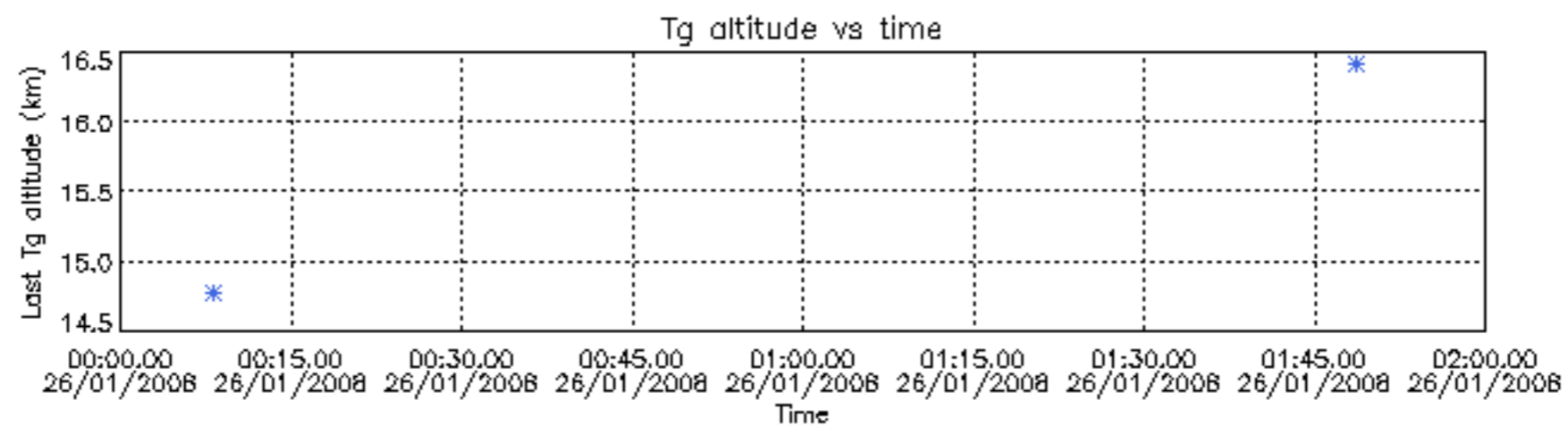
Tangent altitude at which the star is lost

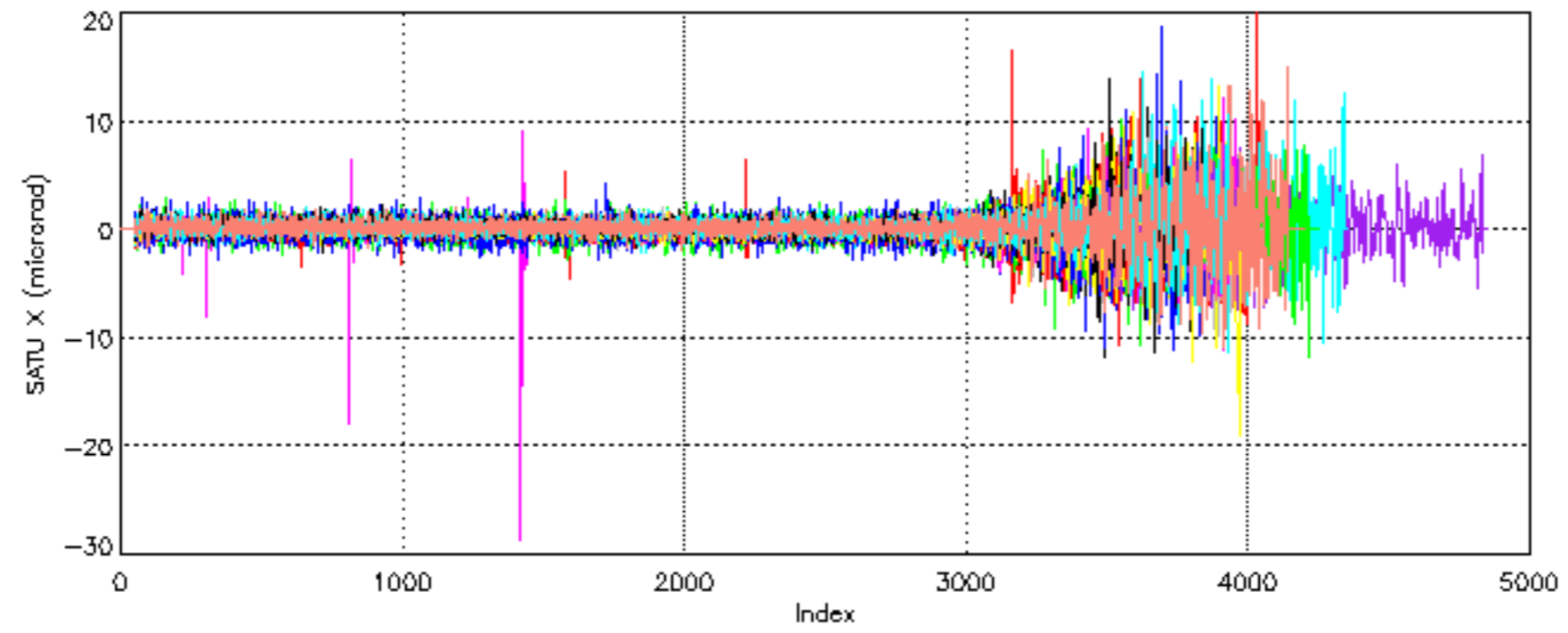


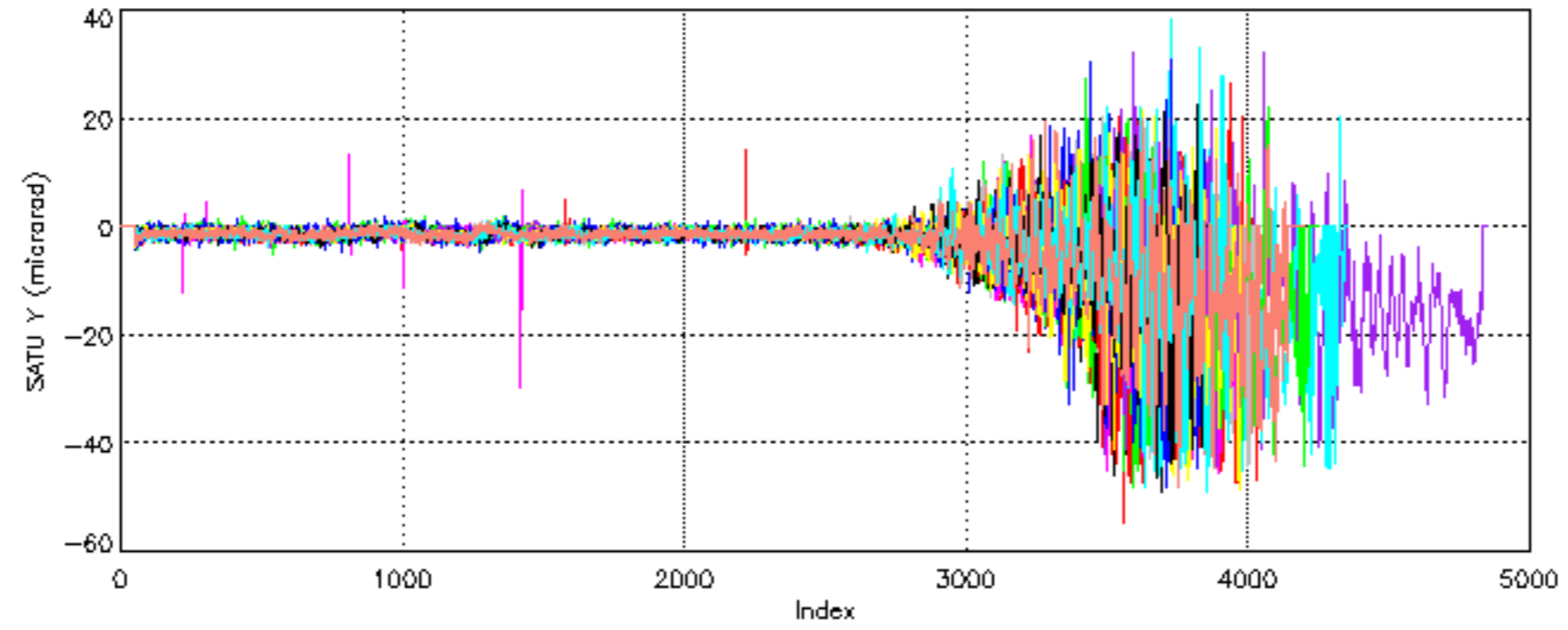
Tangent altitude at which the star is lost

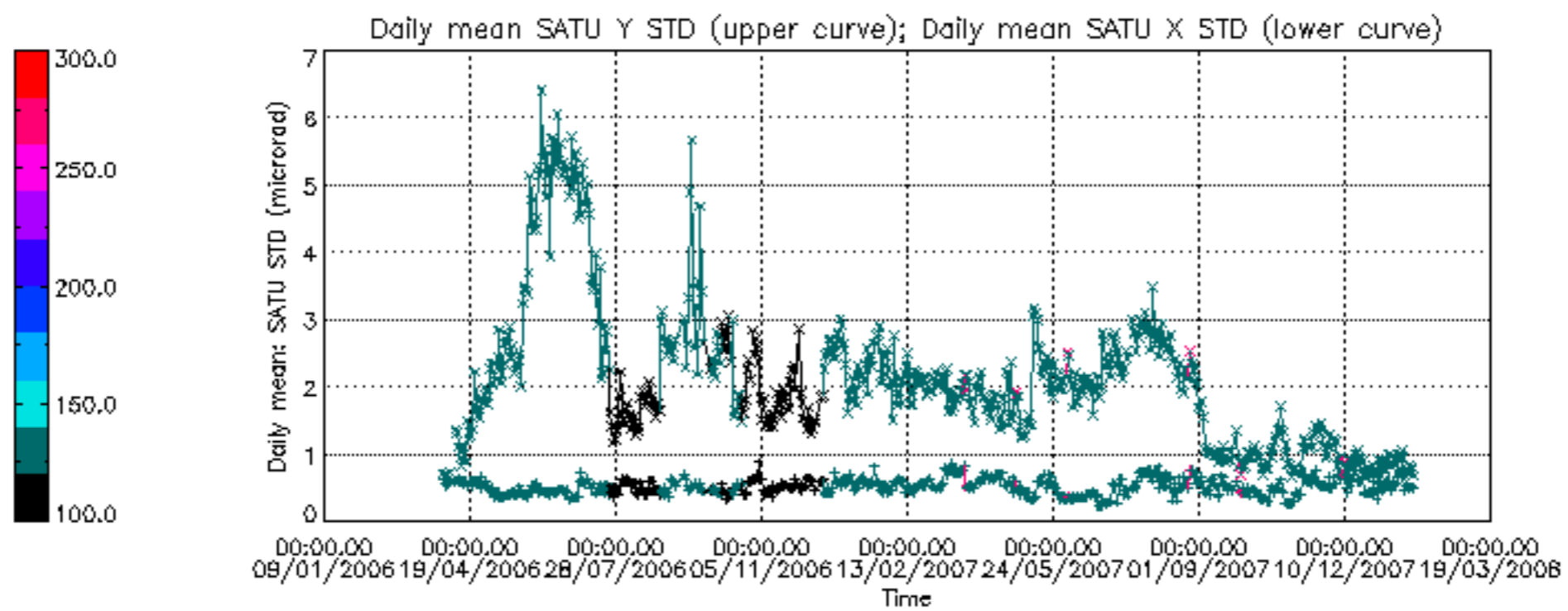


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080101_012923_000041452064_00403_30517_5034.N1

1; -686.3; 01-JAN-2008 01:29:23; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;30517
 2; -107.2; 01-JAN-2008 01:39:02; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30517
 3; -2.6; 01-JAN-2008 01:40:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30517
 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518
 8; 723.1; 01-JAN-2008 01:52:52; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30518
 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30518
 10; 1319.6; 01-JAN-2008 02:02:49; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30518
 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080101_024221_000058042064_00404_30518_5035.N1

1; -2344.3; 01-JAN-2008 02:42:21; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30518
 2; -2114.2; 01-JAN-2008 02:46:11; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30518
 3; -1988.5; 01-JAN-2008 02:48:17; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30518
 4; -1614.9; 01-JAN-2008 02:54:30; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30518
 5; -1490.9; 01-JAN-2008 02:56:34; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30518
 6; -1147.0; 01-JAN-2008 03:02:18; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30518
 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518
 8; -844.1; 01-JAN-2008 03:07:21; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;30518
 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518
 10; -282.3; 01-JAN-2008 03:16:43; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30518
 11; -194.3; 01-JAN-2008 03:18:11; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30518
 12; -106.5; 01-JAN-2008 03:19:39; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30518
 13; -2.2; 01-JAN-2008 03:21:23; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;30518
 14; 227.1; 01-JAN-2008 03:25:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30519
 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519
 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519
 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519
 18; 723.5; 01-JAN-2008 03:33:29; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30519
 19; 977.7; 01-JAN-2008 03:37:43; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;30519
 20; 1319.9; 01-JAN-2008 03:43:25; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30519
 21; 1569.0; 01-JAN-2008 03:47:34; Dark ; 45.5; 47; 2Bet CMA ; 1.98; 28000;occ; 91; 0;30519
 22; 1769.2; 01-JAN-2008 03:50:54; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30519
 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519
 24; 2033.5; 01-JAN-2008 03:55:18; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30519
 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519
 26; 2398.0; 01-JAN-2008 04:01:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30519
 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519
 28; 2611.7; 01-JAN-2008 04:04:57; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30519
 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519
 30; 3423.4; 01-JAN-2008 04:18:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30519

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 16; 4890.7; 01-JAN-2008 13:05:55; Bright; 54.0; 102; 24Alp Ser ; 2.60; 4250;occ; 108; 0;30524
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4; 1770.5; 01-JAN-2008 18:56:19; Dark ; 34.5; 7; 19Bet Ori ; 0.10; 14000;occ; 69; 0;30528
5; 1882.0; 01-JAN-2008 18:58:11; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30528
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8; 2397.4; 01-JAN-2008 19:06:46; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;30528

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 13; 4551.1; 03-JAN-2008 08:35:50; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30550
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19; 743.3; 04-JAN-2008 07:00:45; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30564
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22; 1351.7; 04-JAN-2008 07:10:54; Dark ; 28.0; 23; 21Eps CMa ; 1.50; 26000;occ; 56; 0;30564
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9; 3423.8; 04-JAN-2008 07:45:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30564
10; 3686.9; 04-JAN-2008 07:49:49; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30564
11; 3923.5; 04-JAN-2008 07:53:46; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30564
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22; 5958.5; 04-JAN-2008 08:27:41; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;30564
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27; 6688.4; 04-JAN-2008 08:39:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30564
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29; 7025.5; 04-JAN-2008 08:45:27; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;30564
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31; 7387.8; 04-JAN-2008 08:51:30; Dark ; 28.0; 23; 21Eps CMA ; 1.50; 26000;occ; 56; 0;30564
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21; 5863.6; 04-JAN-2008 10:06:42; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30565
22; 5959.1; 04-JAN-2008 10:08:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30565
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25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565
27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565
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5; 2208.6; 04-JAN-2008 10:46:22; Bright; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;30566
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12; 3923.6; 04-JAN-2008 11:14:57; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30566
13; 4055.8; 04-JAN-2008 11:17:10; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30566
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26; 6287.7; 04-JAN-2008 11:54:22; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30566
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32; 7223.8; 04-JAN-2008 12:09:58; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30566
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14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
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17; 5041.3; 04-JAN-2008 14:54:47; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30568
18; 5215.7; 04-JAN-2008 14:57:41; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;30568
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21; 5691.5; 04-JAN-2008 15:05:37; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30568
22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30568
23; 5865.2; 04-JAN-2008 15:08:31; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30568
24; 5961.2; 04-JAN-2008 15:10:07; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30568
25; 6050.1; 04-JAN-2008 15:11:36; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30568
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32; 7224.6; 04-JAN-2008 15:31:10; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;30568
33; 7388.8; 04-JAN-2008 15:33:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30568

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18; 5041.7; 04-JAN-2008 16:35:23; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30569
19; 5216.2; 04-JAN-2008 16:38:18; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;30569
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21; 5425.1; 04-JAN-2008 16:41:47; Dark ; 39.0; 158; 6Pi Sco ; 2.91; 28000;occ; 78; 0;30569
22; 5691.9; 04-JAN-2008 16:46:13; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30569
23; 5776.5; 04-JAN-2008 16:47:38; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30569
24; 5865.7; 04-JAN-2008 16:49:07; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30569
25; 5961.8; 04-JAN-2008 16:50:43; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30569
26; 6050.5; 04-JAN-2008 16:52:12; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30569
27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569
28; 6449.1; 04-JAN-2008 16:58:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30569
29; 6599.9; 04-JAN-2008 17:01:21; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30569
30; 6691.1; 04-JAN-2008 17:02:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30569
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32; 7026.8; 04-JAN-2008 17:08:28; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30569
33; 7225.1; 04-JAN-2008 17:11:47; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30569

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21; 5315.7; 04-JAN-2008 18:20:33; Bright; 48.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 97; 0;30570
22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570
23; 5776.9; 04-JAN-2008 18:28:14; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30570
24; 5866.1; 04-JAN-2008 18:29:44; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30570
25; 5962.6; 04-JAN-2008 18:31:20; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30570
26; 6050.8; 04-JAN-2008 18:32:48; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30570
27; 6289.9; 04-JAN-2008 18:36:47; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30570
28; 6449.4; 04-JAN-2008 18:39:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30570
29; 6600.3; 04-JAN-2008 18:41:58; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30570
30; 6691.6; 04-JAN-2008 18:43:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30570
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3; 1353.4; 04-JAN-2008 18:55:07; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;30571
4; 1576.2; 04-JAN-2008 18:58:50; Dark ; 42.0; 47; 2Bet CMa ; 1.98; 28000;occ; 84; 0;30571
5; 1776.4; 04-JAN-2008 19:02:10; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30571
6; 1885.0; 04-JAN-2008 19:03:59; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30571
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19; 4905.5; 04-JAN-2008 19:54:19; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30571
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21; 5217.3; 04-JAN-2008 19:59:31; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30571
22; 5316.0; 04-JAN-2008 20:01:10; Bright; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;30571
23; 5692.4; 04-JAN-2008 20:07:26; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30571
24; 5777.5; 04-JAN-2008 20:08:51; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30571
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27; 6051.1; 04-JAN-2008 20:13:25; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30571
28; 6290.3; 04-JAN-2008 20:17:24; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30571
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31; 6692.0; 04-JAN-2008 20:24:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30571
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3; -167.9; 05-JAN-2008 01:12:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;30574

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6; 255.9; 05-JAN-2008 01:19:13; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30575
7; 414.6; 05-JAN-2008 01:21:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30575
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13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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 32; 7391.8; 05-JAN-2008 11:41:09; Dark ; 27.0; 23; 21Eps CMa ; 1.50; 26000;occ; 54; 0;30580
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 6; 2395.2; 05-JAN-2008 11:58:28; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30581
 7; 2475.8; 05-JAN-2008 11:59:49; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30581
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 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581
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 11; 3684.9; 05-JAN-2008 12:19:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30581
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 2; -1977.8; 05-JAN-2008 12:26:11; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30581
 3; -1604.7; 05-JAN-2008 12:32:24; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30581
 4; -1426.9; 05-JAN-2008 12:35:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30581
 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581
 7; -813.6; 05-JAN-2008 12:45:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30581
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 3; -339.8; 05-JAN-2008 12:53:29; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30581
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 5; -164.3; 05-JAN-2008 12:56:24; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30581
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 7; 18.6; 05-JAN-2008 12:59:27; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;30582
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 6; 2395.0; 05-JAN-2008 13:39:04; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30582
 7; 2475.9; 05-JAN-2008 13:40:25; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30582
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12; 3924.1; 05-JAN-2008 14:04:33; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30582
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22; 5872.2; 05-JAN-2008 14:37:01; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30582
23; 5970.4; 05-JAN-2008 14:38:39; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30582
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26; 6452.8; 05-JAN-2008 14:46:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30582
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4; 2031.3; 06-JAN-2008 13:01:23; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;30596
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7; 2477.1; 06-JAN-2008 13:08:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30596
8; 2689.5; 06-JAN-2008 13:12:21; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30596
9; 3683.1; 06-JAN-2008 13:28:55; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30596
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11; 4060.6; 06-JAN-2008 13:35:12; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;30596
12; 4433.8; 06-JAN-2008 13:41:25; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;30596
13; 4612.1; 06-JAN-2008 13:44:24; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30596
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15; 5049.4; 06-JAN-2008 13:51:41; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;30596
16; 5375.9; 06-JAN-2008 13:57:08; Dark ; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;30596
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19; 5879.4; 06-JAN-2008 14:05:31; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30596
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22; 6456.8; 06-JAN-2008 14:15:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30596
23; 6609.3; 06-JAN-2008 14:17:41; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30596
24; 6704.9; 06-JAN-2008 14:19:17; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30596
25; 6793.0; 06-JAN-2008 14:20:45; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30596
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27; 7233.9; 06-JAN-2008 14:28:06; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30596
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5; 2031.3; 06-JAN-2008 14:41:59; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30597
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8; 2477.3; 06-JAN-2008 14:49:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30597
9; 2689.6; 06-JAN-2008 14:52:57; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30597
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12; 3924.5; 06-JAN-2008 15:13:32; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30597
13; 4060.8; 06-JAN-2008 15:15:48; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30597
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16; 4914.6; 06-JAN-2008 15:30:02; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30597
17; 5049.7; 06-JAN-2008 15:32:17; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30597
18; 5376.5; 06-JAN-2008 15:37:44; Dark ; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;30597
19; 5702.2; 06-JAN-2008 15:43:10; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30597
20; 5790.3; 06-JAN-2008 15:44:38; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30597
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23; 6304.2; 06-JAN-2008 15:53:12; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;30597
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 29; 7234.3; 06-JAN-2008 16:08:42; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30597
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 7; 2395.1; 06-JAN-2008 16:28:39; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30598
 8; 2477.3; 06-JAN-2008 16:30:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30598
 9; 2689.5; 06-JAN-2008 16:33:33; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;30598
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 11; 3682.9; 06-JAN-2008 16:50:06; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30598
 12; 3924.5; 06-JAN-2008 16:54:08; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30598
 13; 4060.9; 06-JAN-2008 16:56:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30598
 14; 4433.9; 06-JAN-2008 17:02:37; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30598
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 19; 5702.5; 06-JAN-2008 17:23:46; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30598
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 21; 5880.5; 06-JAN-2008 17:26:44; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30598
 22; 6060.7; 06-JAN-2008 17:29:44; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30598
 23; 6304.6; 06-JAN-2008 17:33:48; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30598
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 12; 3424.0; 06-JAN-2008 18:26:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30599
 13; 3682.7; 06-JAN-2008 18:30:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30599
 14; 3924.5; 06-JAN-2008 18:34:44; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30599
 15; 4060.9; 06-JAN-2008 18:37:00; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30599
 16; 4434.0; 06-JAN-2008 18:43:14; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30599
 17; 4612.4; 06-JAN-2008 18:46:12; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30599
 18; 4915.2; 06-JAN-2008 18:51:15; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30599
 19; 5050.2; 06-JAN-2008 18:53:30; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 0;30599
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 21; 5702.9; 06-JAN-2008 19:04:22; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30599
 22; 5791.4; 06-JAN-2008 19:05:51; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30599
 23; 5881.1; 06-JAN-2008 19:07:21; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30599
 24; 6061.1; 06-JAN-2008 19:10:21; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30599
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 26; 6457.7; 06-JAN-2008 19:16:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30599
 27; 6610.3; 06-JAN-2008 19:19:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30599
 28; 6706.4; 06-JAN-2008 19:21:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30599
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9; 2395.0; 06-JAN-2008 19:49:51; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30600
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15; 4061.1; 06-JAN-2008 20:17:37; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30600
16; 4434.1; 06-JAN-2008 20:23:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30600
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18; 4915.5; 06-JAN-2008 20:31:51; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30600
19; 5050.4; 06-JAN-2008 20:34:06; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 0;30600
20; 5377.3; 06-JAN-2008 20:39:33; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30600
21; 5703.2; 06-JAN-2008 20:44:59; Dark ; 35.5; 131; Gam Lup ; 2.80; 26000;occ; 71; 0;30600
22; 5791.8; 06-JAN-2008 20:46:27; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30600
23; 5881.4; 06-JAN-2008 20:47:57; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30600
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27; 6706.8; 06-JAN-2008 21:01:42; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30600
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5; 270.2; 06-JAN-2008 22:35:38; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30602
6; 422.3; 06-JAN-2008 22:38:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30602
7; 574.9; 06-JAN-2008 22:40:42; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30602
8; 671.4; 06-JAN-2008 22:42:19; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30602
9; 759.0; 06-JAN-2008 22:43:46; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30602
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12; 1361.1; 06-JAN-2008 22:53:48; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30602
13; 1580.6; 06-JAN-2008 22:57:28; Dark ; 44.0; 47; 2Bet CMa ; 1.98; 28000;occ; 88; 0;30602
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18; 5795.4; 07-JAN-2008 08:30:42; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30607
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23; 6613.0; 07-JAN-2008 08:44:20; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30607
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27; 7237.5; 07-JAN-2008 08:54:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30607
28; 7398.6; 07-JAN-2008 08:57:26; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30607
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 4; 2268.2; 07-JAN-2008 09:12:31; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30608
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9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608
10; 3924.6; 07-JAN-2008 09:40:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30608
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13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608
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17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608
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21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608
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23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608
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26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608
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7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
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23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
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12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
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 9; 3424.4; 09-JAN-2008 13:30:21; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30639
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 16; 5151.4; 09-JAN-2008 13:59:08; Bright; 51.0; 98; 13Zet Oph ; 2.57; 30000;occ; 102; 0;30639
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31; 7043.2; 09-JAN-2008 17:51:52; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;30641

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 13; 4442.3; 10-JAN-2008 13:15:42; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;30653
 14; 4623.4; 10-JAN-2008 13:18:43; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;30653
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 25; 6628.6; 10-JAN-2008 13:52:08; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30653
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 28; 7045.6; 10-JAN-2008 13:59:05; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30653
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 21; 5346.6; 10-JAN-2008 20:13:10; Dark ; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;30657
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 23; 5726.8; 10-JAN-2008 20:19:30; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30657
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 28; 6535.3; 10-JAN-2008 20:32:59; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30657
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 7; 260.4; 10-JAN-2008 23:50:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30660
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 8; 2397.1; 10-JAN-2008 16:02:49; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30655
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