

GOMOS Daily Report 14-MAY-2007

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	16MAY2007 05:37:23
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15MAY2007 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)

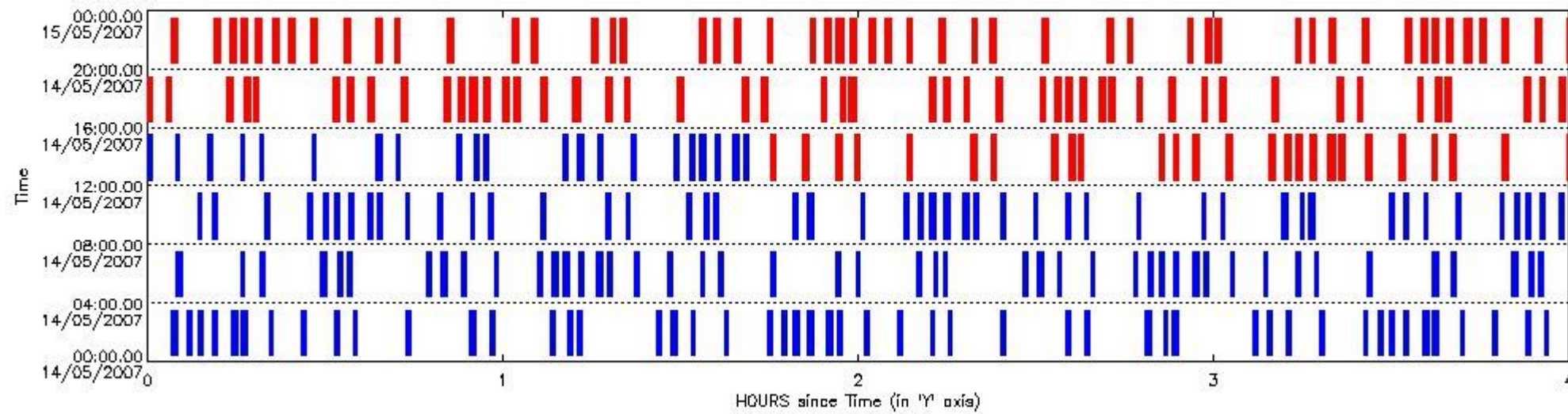
2.1 Level 0 products arrived in PCF (see template [here](#))

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
14-MAY-2007 13:45:08	27BetLib	104	27204
14-MAY-2007 13:50:36	24AlpSer	102	27204
14-MAY-2007 13:56:09		83	27204
14-MAY-2007 13:59:17	27GamBoo	180	27204
14-MAY-2007 14:08:06	14EtaDra	119	27204
14-MAY-2007 14:19:02	5AlpCep	89	27204
14-MAY-2007 14:22:24	11BetCas	74	27204
14-MAY-2007 14:32:35	53BetPeg	93	27204
14-MAY-2007 14:35:38	88GamPeg	140	27204
14-MAY-2007 14:37:10	54AlpPeg	90	27204
14-MAY-2007 14:50:41	24AlpPsA	18	27204
14-MAY-2007 14:53:07	DSA1037	0	27204
14-MAY-2007 14:56:31	AlpGru	31	27204
14-MAY-2007 15:02:06	AlpPav	45	27205
14-MAY-2007 15:09:22	BetAra	141	27205

14-MAY-2007 15:11:52	TheSco	40	27205
14-MAY-2007 15:13:44	35LamSco	25	27205
14-MAY-2007 15:16:10	26EpsSco	75	27205
14-MAY-2007 15:19:19	21AlpSco	16	27205
14-MAY-2007 15:21:06	7DelSco	80	27205
14-MAY-2007 15:25:43	27BetLib	104	27205
14-MAY-2007 15:31:12	24AlpSer	102	27205
14-MAY-2007 15:36:45		83	27205
14-MAY-2007 15:39:53	27GamBoo	180	27205
14-MAY-2007 15:48:42	14EtaDra	119	27205
14-MAY-2007 15:59:37	5AlpCep	89	27205
14-MAY-2007 16:03:00	11BetCas	74	27205
14-MAY-2007 16:13:11	53BetPeg	93	27205
14-MAY-2007 16:16:14	88GamPeg	140	27205
14-MAY-2007 16:17:46	54AlpPeg	90	27205
14-MAY-2007 16:31:17	24AlpPsA	18	27205
14-MAY-2007 16:33:44	DSA1037	0	27205
14-MAY-2007 16:37:08	AlpGru	31	27205
14-MAY-2007 16:42:43	AlpPav	45	27206
14-MAY-2007 16:49:59	BetAra	141	27206
14-MAY-2007 16:52:29	TheSco	40	27206
14-MAY-2007 16:54:21	35LamSco	25	27206
14-MAY-2007 16:56:46	26EpsSco	75	27206
14-MAY-2007 16:59:56	21AlpSco	16	27206
14-MAY-2007 17:01:42	7DelSco	80	27206
14-MAY-2007 17:06:19	27BetLib	104	27206
14-MAY-2007 17:11:48	24AlpSer	102	27206
14-MAY-2007 17:17:21		83	27206
14-MAY-2007 17:20:28	27GamBoo	180	27206
14-MAY-2007 17:29:17	14EtaDra	119	27206
14-MAY-2007 17:40:13	5AlpCep	89	27206
14-MAY-2007 17:43:36	11BetCas	74	27206
14-MAY-2007 17:53:47	53BetPeg	93	27206
14-MAY-2007 17:56:50	88GamPeg	140	27206
14-MAY-2007 17:58:23	54AlpPeg	90	27206
14-MAY-2007 18:11:54	24AlpPsA	18	27206
14-MAY-2007 18:14:21	DSA1037	0	27206
14-MAY-2007 18:17:45	AlpGru	31	27206
14-MAY-2007 18:23:19	AlpPav	45	27207
14-MAY-2007 18:30:35	BetAra	141	27207
14-MAY-2007 18:33:05	TheSco	40	27207
14-MAY-2007 18:34:57	35LamSco	25	27207
14-MAY-2007 18:37:22	26EpsSco	75	27207
14-MAY-2007 18:40:32	21AlpSco	16	27207
14-MAY-2007 18:42:18	7DelSco	80	27207
14-MAY-2007 18:46:55	27BetLib	104	27207
14-MAY-2007 18:52:23	24AlpSer	102	27207
14-MAY-2007 18:57:56		83	27207
14-MAY-2007 19:01:04	27GamBoo	180	27207
14-MAY-2007 19:09:53	14EtaDra	119	27207
14-MAY-2007 19:20:48	5AlpCep	89	27207
14-MAY-2007 19:24:12	11BetCas	74	27207
14-MAY-2007 19:34:23	53BetPeg	93	27207
14-MAY-2007 19:37:26	88GamPeg	140	27207
14-MAY-2007 19:38:59	54AlpPeg	90	27207
14-MAY-2007 19:52:31	24AlpPsA	18	27207
14-MAY-2007 19:54:57	DSA1037	0	27207
14-MAY-2007 19:58:21	AlpGru	31	27207
14-MAY-2007 20:03:56	AlpPav	45	27208

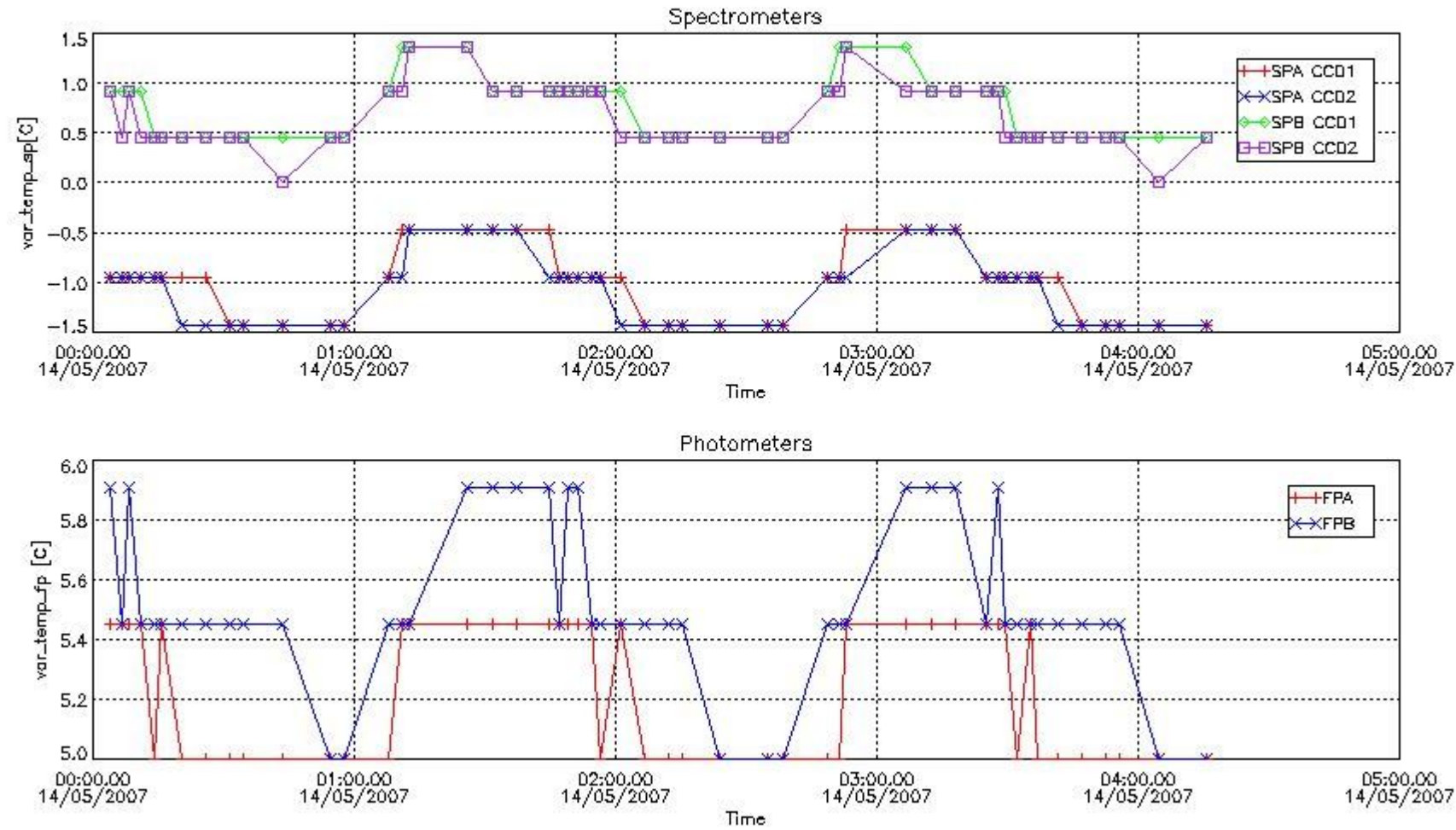
14-MAY-2007 20:11:12	BetAra	141	27208
14-MAY-2007 20:13:42	TheSco	40	27208
14-MAY-2007 20:15:34	35LamSco	25	27208
14-MAY-2007 20:17:59	26EpsSco	75	27208
14-MAY-2007 20:21:08	21AlpSco	16	27208
14-MAY-2007 20:23:48	8Bet1Sco	97	27208
14-MAY-2007 20:27:31	27BetLib	104	27208
14-MAY-2007 20:32:59	24AlpSer	102	27208
14-MAY-2007 20:38:32		83	27208
14-MAY-2007 20:41:40	27GamBoo	180	27208
14-MAY-2007 20:50:28	14EtaDra	119	27208
14-MAY-2007 21:01:24	5AlpCep	89	27208
14-MAY-2007 21:04:48	11BetCas	74	27208
14-MAY-2007 21:15:00	53BetPeg	93	27208
14-MAY-2007 21:18:02	88GamPeg	140	27208
14-MAY-2007 21:19:36	54AlpPeg	90	27208
14-MAY-2007 21:33:08	24AlpPsA	18	27208
14-MAY-2007 21:35:34	DSA1037	0	27208
14-MAY-2007 21:38:58	AlpGru	31	27208
14-MAY-2007 21:44:33	AlpPav	45	27209
14-MAY-2007 21:51:48	BetAra	141	27209
14-MAY-2007 21:54:18	TheSco	40	27209
14-MAY-2007 21:56:10	35LamSco	25	27209
14-MAY-2007 21:58:35	26EpsSco	75	27209
14-MAY-2007 22:01:44	21AlpSco	16	27209
14-MAY-2007 22:04:24	8Bet1Sco	97	27209
14-MAY-2007 22:08:07	27BetLib	104	27209
14-MAY-2007 22:13:35	24AlpSer	102	27209
14-MAY-2007 22:19:08		83	27209
14-MAY-2007 22:22:15	27GamBoo	180	27209
14-MAY-2007 22:31:03	14EtaDra	119	27209
14-MAY-2007 22:41:59	5AlpCep	89	27209
14-MAY-2007 22:45:24	11BetCas	74	27209
14-MAY-2007 22:55:36	53BetPeg	93	27209
14-MAY-2007 22:58:39	88GamPeg	140	27209
14-MAY-2007 23:00:12	54AlpPeg	90	27209
14-MAY-2007 23:13:44	24AlpPsA	18	27209
14-MAY-2007 23:16:11	DSA1037	0	27209
14-MAY-2007 23:19:35	AlpGru	31	27209
14-MAY-2007 23:25:09	AlpPav	45	27210
14-MAY-2007 23:32:25	BetAra	141	27210
14-MAY-2007 23:34:55	TheSco	40	27210
14-MAY-2007 23:36:47	35LamSco	25	27210
14-MAY-2007 23:39:12	26EpsSco	75	27210
14-MAY-2007 23:42:21	21AlpSco	16	27210
14-MAY-2007 23:45:00	8Bet1Sco	97	27210
14-MAY-2007 23:48:43	27BetLib	104	27210
14-MAY-2007 23:54:10	24AlpSer	102	27210
14-MAY-2007 23:59:43		83	27210

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_1PNPDE20070514_000401_000000512058_00088_27196_5166.N1	14-MAY-2007 00:04:01	Straylight	50.500	141	Bet Ara	2.8400	4600.0	101	27196	No
2	GOM_TRA_1PNPDE20070514_000629_000000482058_00088_27196_5167.N1	14-MAY-2007 00:06:29	Straylight	48.000	40	The Sco	1.8590	7100.0	96	27196	No
3	GOM_TRA_1PNPDE20070514_000821_000000582058_00088_27196_5168.N1	14-MAY-2007 00:08:21	Straylight	57.500	25	35Lam Sco	1.6200	28000.	115	27196	No
4	GOM_TRA_1PNPDE20070514_001048_000000542058_00088_27196_5169.N1	14-MAY-2007 00:10:48	Straylight	54.000	75	26Eps Sco	2.2910	4250.0	108	27196	No
5	GOM_TRA_1PNPDE20070514_001400_000000652058_00088_27196_5170.N1	14-MAY-2007 00:14:00	Twilight_stray	65.000	16	21Alp Sco	1.0200	3000.0	130	27196	No

6	GOM_TRA_1PNPDE20070514_001547_000000572058_00088_27196_5171.N1	14-MAY-2007 00:15:47	Bright	56.500	80	7Del Sco	2.3160	30000.	113	27196	No
7	GOM_TRA_1PNPDE20070514_002026_000000392058_00088_27196_5172.N1	14-MAY-2007 00:20:26	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	27196	No
8	GOM_TRA_1PNPDE20070514_002558_000000452058_00088_27196_5173.N1	14-MAY-2007 00:25:58	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	27196	No
9	GOM_TRA_1PNPDE20070514_003130_000000412058_00088_27196_5174.N1	14-MAY-2007 00:31:30	Bright	40.500	83		2.3780	11000.	81	27196	No
10	GOM_TRA_1PNPDE20070514_003438_000000372058_00088_27196_5175.N1	14-MAY-2007 00:34:38	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	27196	No
11	GOM_TRA_1PNPDE20070514_004329_000000482058_00088_27196_5176.N1	14-MAY-2007 00:43:29	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	27196	No
12	GOM_TRA_1PNPDE20070514_005424_000000502058_00088_27196_5177.N1	14-MAY-2007 00:54:24	Bright	49.500	89	5Alp Cep	2.4510	8000.0	99	27196	No
13	GOM_TRA_1PNPDE20070514_005744_000000542058_00088_27196_5178.N1	14-MAY-2007 00:57:44	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	27196	No
14	GOM_TRA_1PNPDE20070514_010753_000000542058_00088_27196_5179.N1	14-MAY-2007 01:07:53	Twilight	53.500	93	53Bet Peg	2.5200	3100.0	107	27196	No
15	GOM_TRA_1PNPDE20070514_011055_000000402058_00088_27196_5180.N1	14-MAY-2007 01:10:55	Twilight	40.000	140	88Gam Peg	2.8340	26000.	80	27196	No
16	GOM_TRA_1PNPDE20070514_011225_000000532058_00088_27196_5181.N1	14-MAY-2007 01:12:25	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	27196	No
17	GOM_TRA_1PNPDE20070514_012554_000000512058_00088_27196_5288.N1	14-MAY-2007 01:25:54	Dark	50.500	18	24Alp PsA	1.1660	9700.0	101	27196	No
18	GOM_TRA_1PNPDE20070514_013145_000000422058_00088_27196_5289.N1	14-MAY-2007 01:31:45	Dark	41.500	31	Alp Gru	1.7340	15200.	83	27196	No
19	GOM_TRA_1PNPDE20070514_013719_000000422058_00089_27197_5290.N1	14-MAY-2007 01:37:19	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27197	No
20	GOM_TRA_1PNPDE20070514_014437_000000482058_00089_27197_5291.N1	14-MAY-2007 01:44:37	Straylight	48.000	141	Bet Ara	2.8400	4600.0	96	27197	No
21	GOM_TRA_1PNPDE20070514_014706_000000522058_00089_27197_5292.N1	14-MAY-2007 01:47:06	Straylight	52.000	40	The Sco	1.8590	7100.0	104	27197	No
22	GOM_TRA_1PNPDE20070514_014858_000000552058_00089_27197_5293.N1	14-MAY-2007 01:48:58	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	27197	No
23	GOM_TRA_1PNPDE20070514_015125_000000542058_00089_27197_5294.N1	14-MAY-2007 01:51:25	Straylight	54.000	75	26Eps Sco	2.2910	4250.0	108	27197	No
24	GOM_TRA_1PNPDE20070514_015436_000000652058_00089_27197_5295.N1	14-MAY-2007 01:54:36	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	27197	No
25	GOM_TRA_1PNPDE20070514_015623_000000492058_00089_27197_5296.N1	14-MAY-2007 01:56:23	Bright	49.000	80	7Del Sco	2.3160	30000.	98	27197	No
26	GOM_TRA_1PNPDE20070514_020102_000000412058_00089_27197_5297.N1	14-MAY-2007 02:01:02	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	27197	No
27	GOM_TRA_1PNPDE20070514_020634_000000452058_00089_27197_5298.N1	14-MAY-2007 02:06:34	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	27197	No
28	GOM_TRA_1PNPDE20070514_021206_000000382058_00089_27197_5299.N1	14-MAY-2007 02:12:06	Bright	38.000	83		2.3780	11000.	76	27197	No
29	GOM_TRA_1PNPDE20070514_021513_000000362058_00089_27197_5300.N1	14-MAY-2007 02:15:13	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	27197	No
30	GOM_TRA_1PNPDE20070514_022405_000000402058_00089_27197_5301.N1	14-MAY-2007 02:24:05	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	27197	No
31	GOM_TRA_1PNPDE20070514_023459_000000572058_00089_27197_5293.N1	14-MAY-2007 02:34:59	Bright	56.500	89	5Alp Cep	2.4510	8000.0	113	27197	No
32	GOM_TRA_1PNPDE20070514_023820_000000362058_00089_27197_5294.N1	14-MAY-2007 02:38:20	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	27197	No
33	GOM_TRA_1PNPDE20070514_024828_000000642058_00089_27197_5295.N1	14-MAY-2007 02:48:28	Twilight	63.500	93	53Bet Peg	2.5200	3100.0	127	27197	No
34	GOM_TRA_1PNPDE20070514_025131_000000432058_00089_27197_5296.N1	14-MAY-2007 02:51:31	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	27197	No
35	GOM_TRA_1PNPDE20070514_025302_000000552058_00089_27197_5297.N1	14-MAY-2007 02:53:02	Dark	54.500	90	54Alp Peg	2.4870	11000.	109	27197	No
36	GOM_TRA_1PNPDE20070514_030630_000000532058_00089_27197_5298.N1	14-MAY-2007 03:06:30	Dark	52.500	18	24Alp PsA	1.1660	9700.0	105	27197	No
37	GOM_TRA_1PNPDE20070514_031221_000000432058_00089_27197_5299.N1	14-MAY-2007 03:12:21	Dark	43.000	31	Alp Gru	1.7340	15200.	86	27197	No
38	GOM_TRA_1PNPDE20070514_031756_000000442058_00090_27198_5300.N1	14-MAY-2007 03:17:56	Dark	43.500	45	Alp Pav	1.9400	26000.	87	27198	No
39	GOM_TRA_1PNPDE20070514_032514_000000472058_00090_27198_5301.N1	14-MAY-2007 03:25:14	Straylight	47.000	141	Bet Ara	2.8400	4600.0	94	27198	No
40	GOM_TRA_1PNPDE20070514_032742_000000512058_00090_27198_5302.N1	14-MAY-2007 03:27:42	Straylight	51.000	40	The Sco	1.8590	7100.0	102	27198	No
41	GOM_TRA_1PNPDE20070514_032934_000000582058_00090_27198_5303.N1	14-MAY-2007 03:29:34	Straylight	58.000	25	35Lam Sco	1.6200	28000.	116	27198	No
42	GOM_TRA_1PNPDE20070514_033201_000000522058_00090_27198_5304.N1	14-MAY-2007 03:32:01	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	27198	No
43	GOM_TRA_1PNPDE20070514_033512_000000632058_00090_27198_5305.N1	14-MAY-2007 03:35:12	Twilight	63.000	16	21Alp Sco	1.0200	3000.0	126	27198	No
44	GOM_TRA_1PNPDE20070514_033700_000000552058_00090_27198_5306.N1	14-MAY-2007 03:37:00	Bright	55.000	80	7Del Sco	2.3160	30000.	110	27198	No
45	GOM_TRA_1PNPDE20070514_034138_000000412058_00090_27198_5307.N1	14-MAY-2007 03:41:38	Bright	40.500	104	27Bet Lib	2.6140	13100.	81	27198	No
46	GOM_TRA_1PNPDE20070514_034709_000000452058_00090_27198_5308.N1	14-MAY-2007 03:47:09	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	27198	No
47	GOM_TRA_1PNPDE20070514_035242_000000422058_00090_27198_5309.N1	14-MAY-2007 03:52:42	Bright	41.500	83		2.3780	11000.	83	27198	No
48	GOM_TRA_1PNPDE20070514_035549_000000372058_00090_27198_5310.N1	14-MAY-2007 03:55:49	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	27198	No
49	GOM_TRA_1PNPDE20070514_040440_000000612058_00090_27198_5311.N1	14-MAY-2007 04:04:40	Bright	60.500	119	14Eta Dra	2.7270	4700.0	121	27198	No
50	GOM_TRA_1PNPDE20070514_041535_000000432058_00090_27198_5424.N1	14-MAY-2007 04:15:35	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	27198	No

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



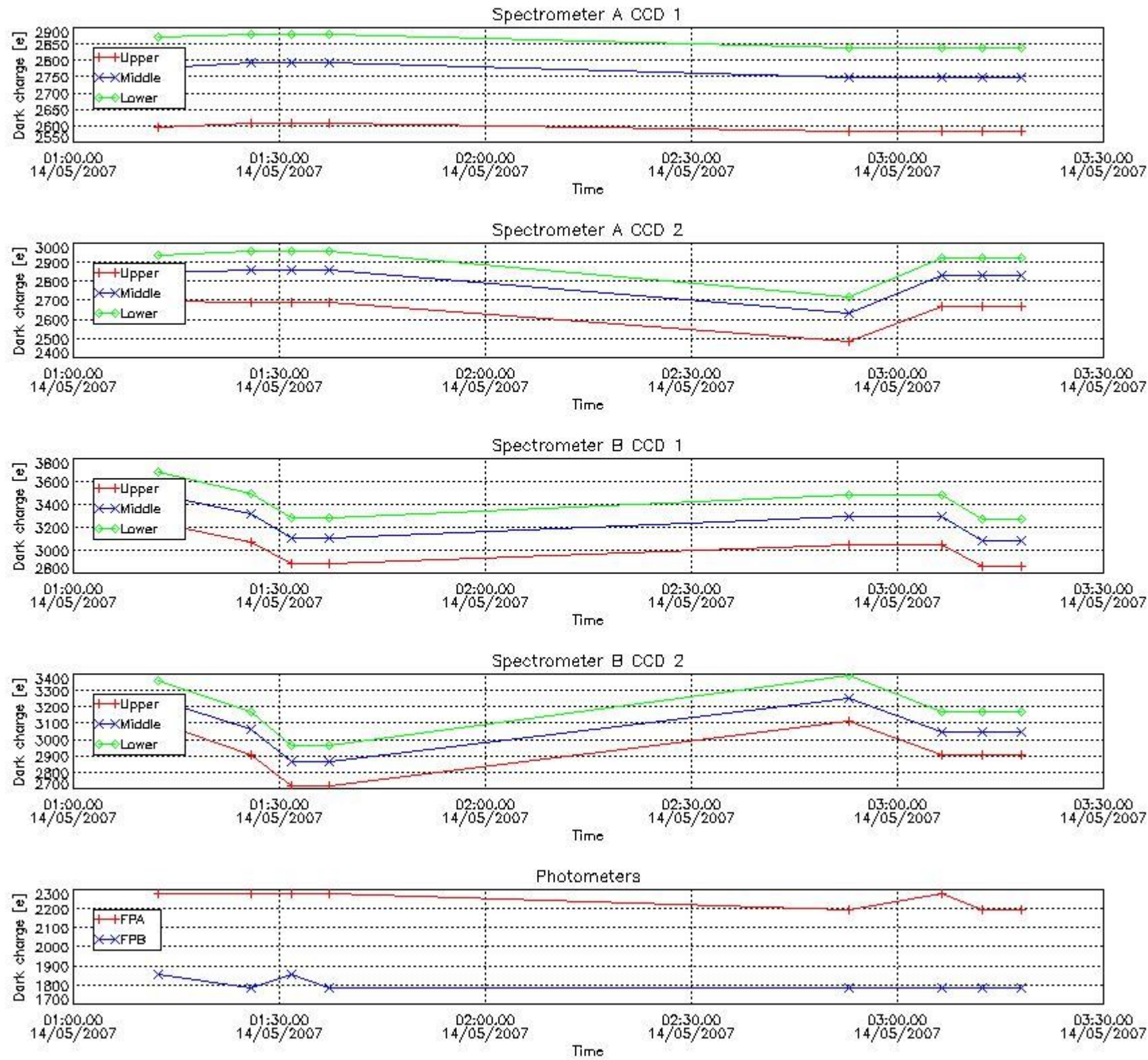
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



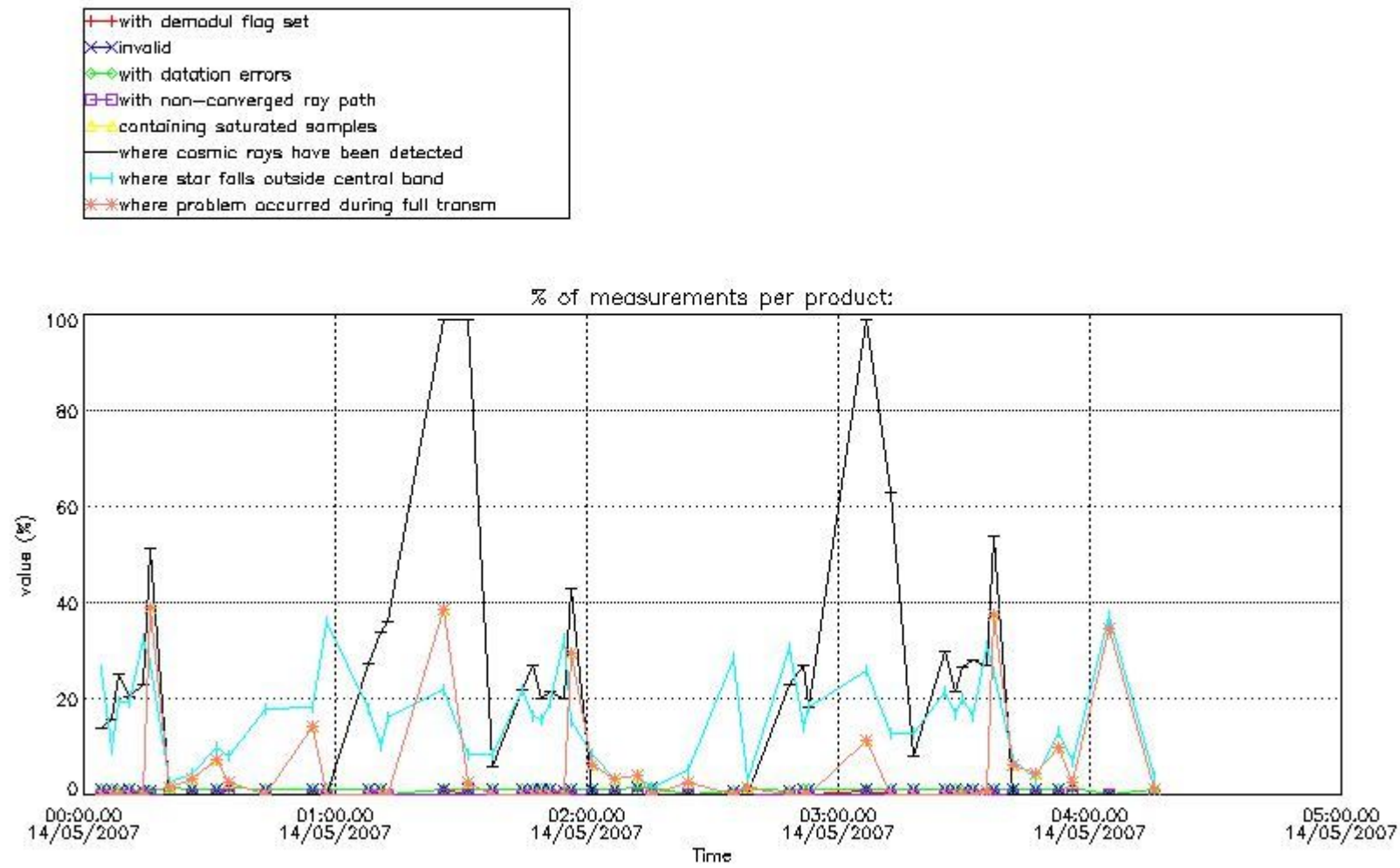
5. Demodulation flag and quality information monitoring

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

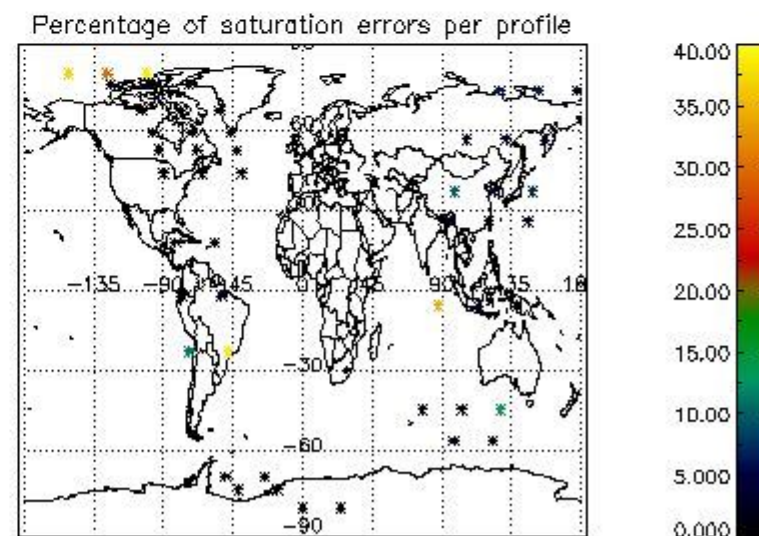
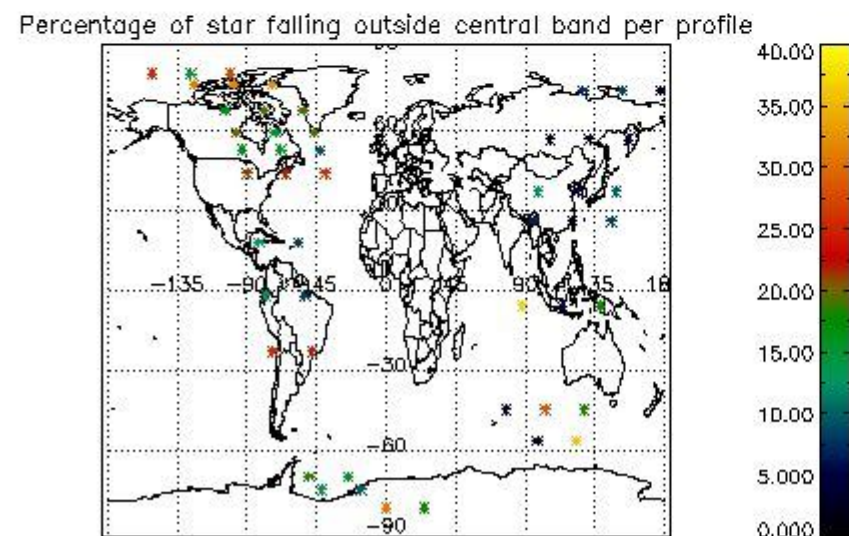
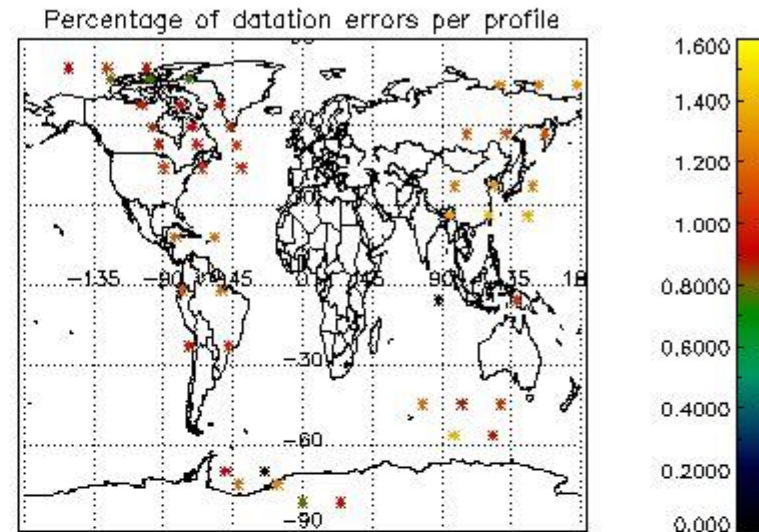
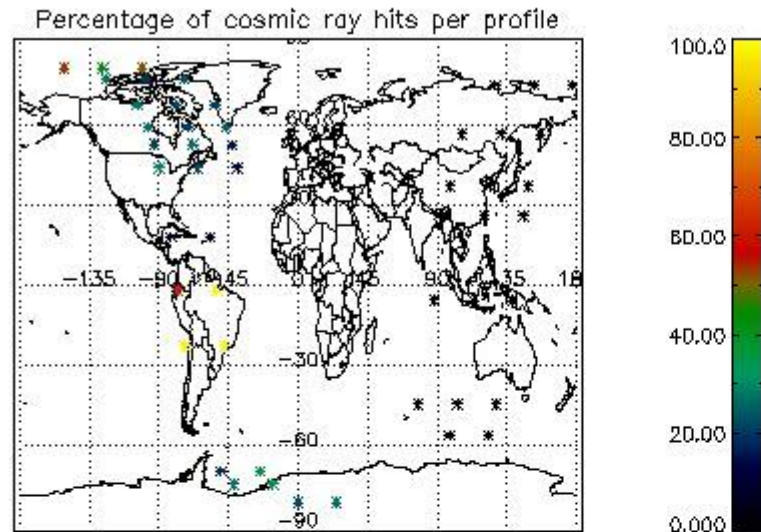
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



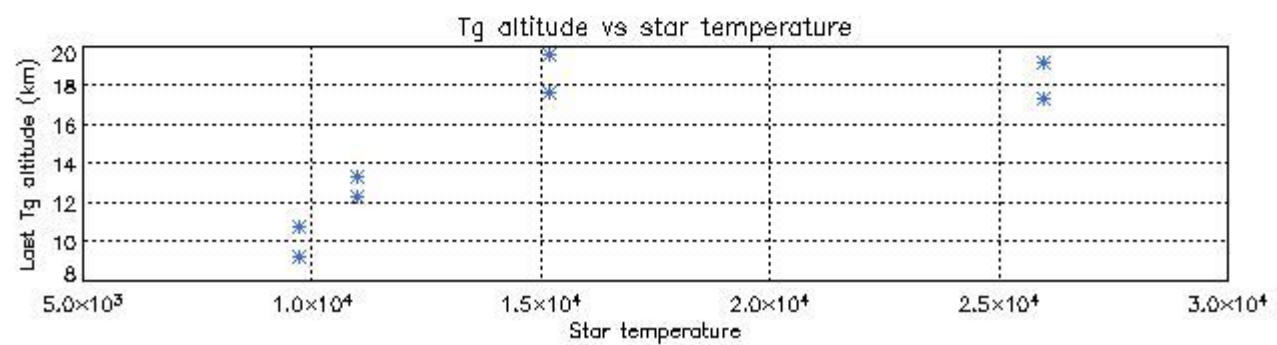
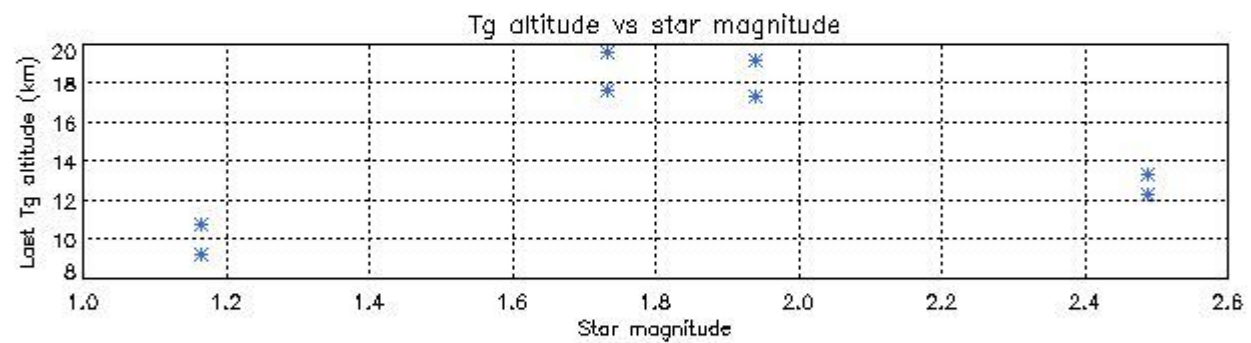
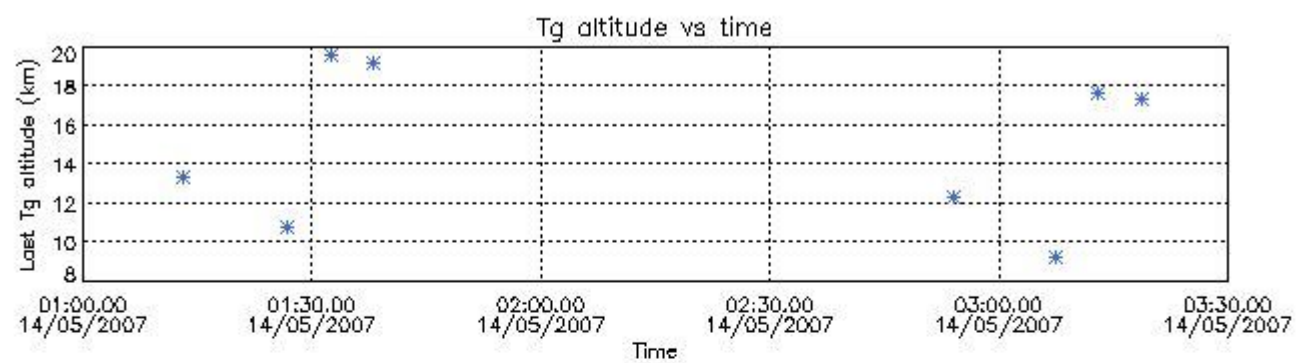
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.915	17.479	15.142
St. deviation:	4.0071	6.8002	2.1787
Maximum:	19.581	25.406	16.682
Minimum:	9.1823	3.0175	13.601
Number of data:	8.0000	23.000	2.0000

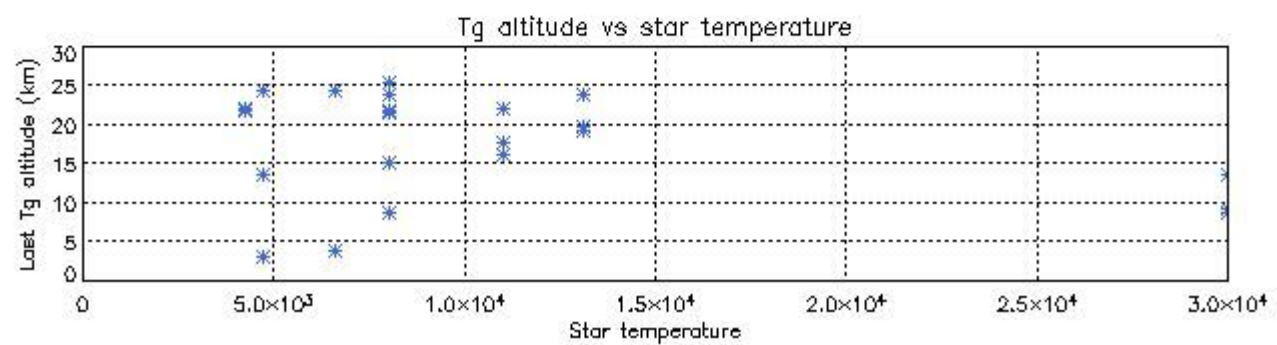
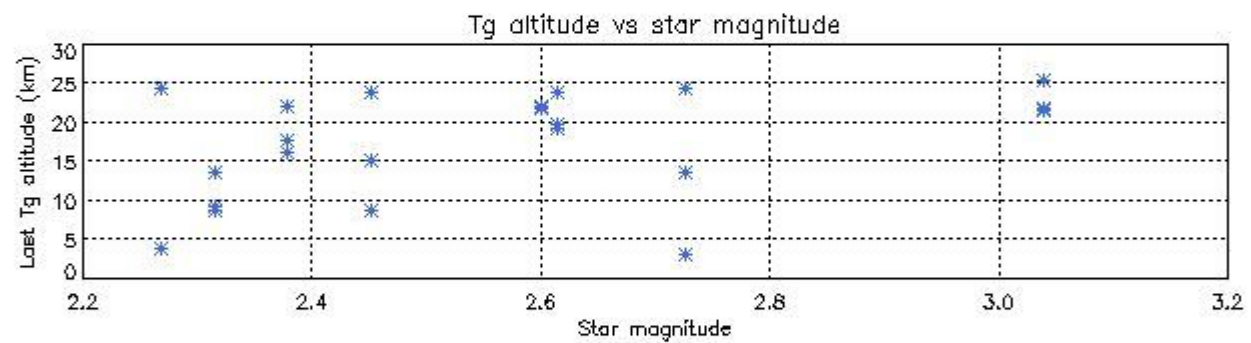
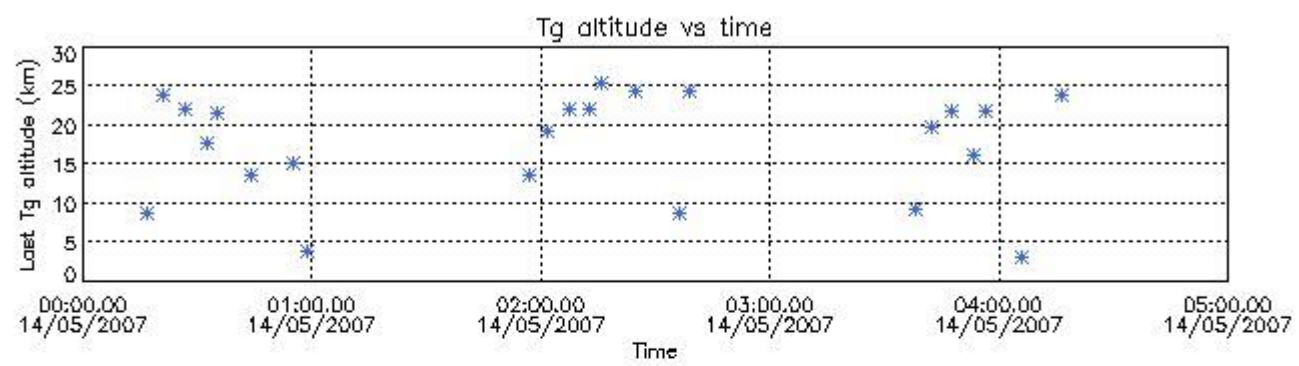
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



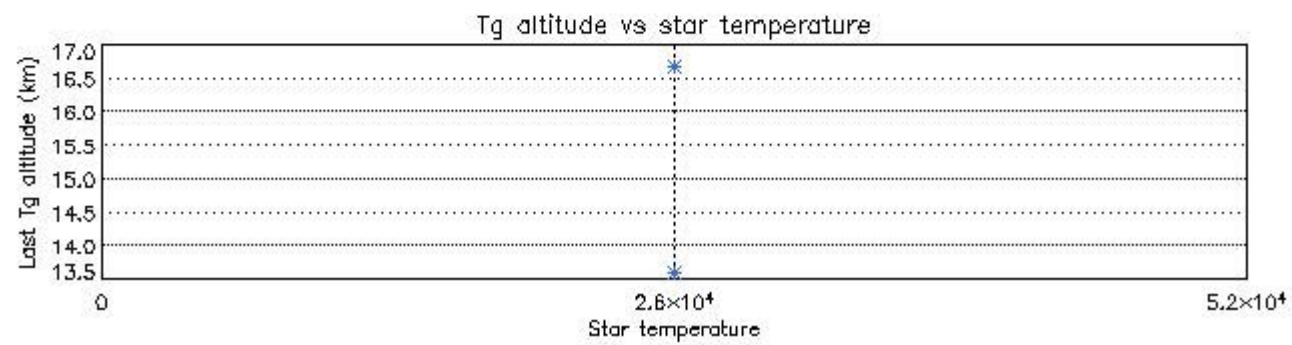
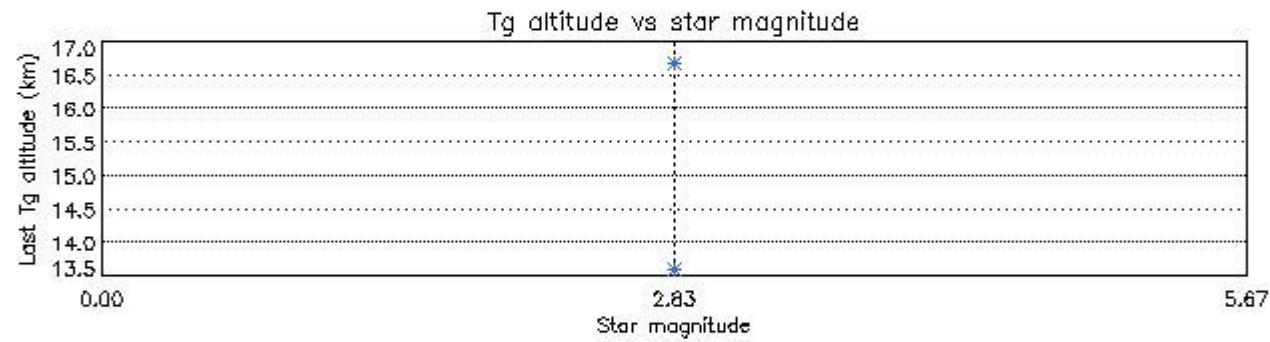
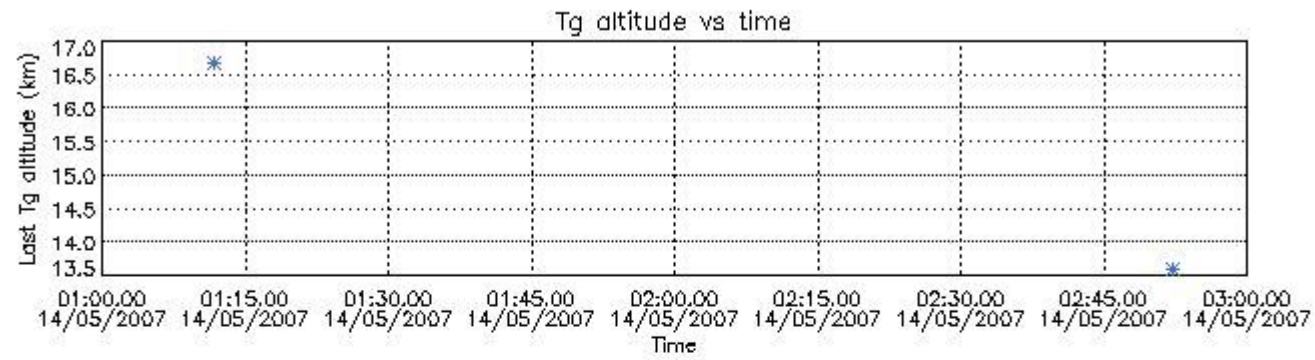
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

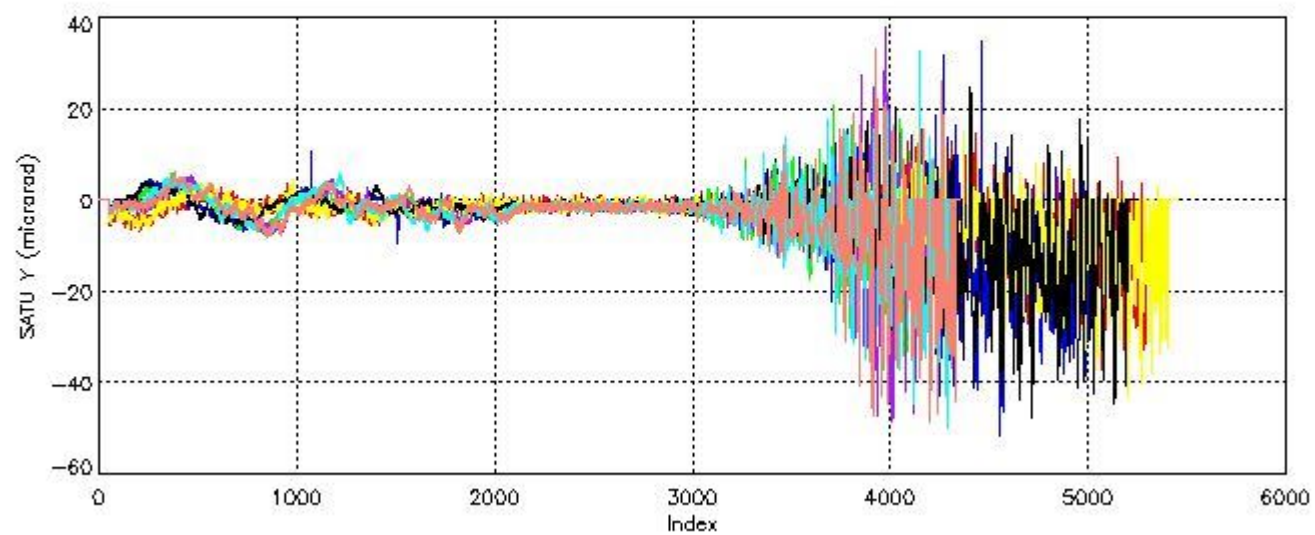
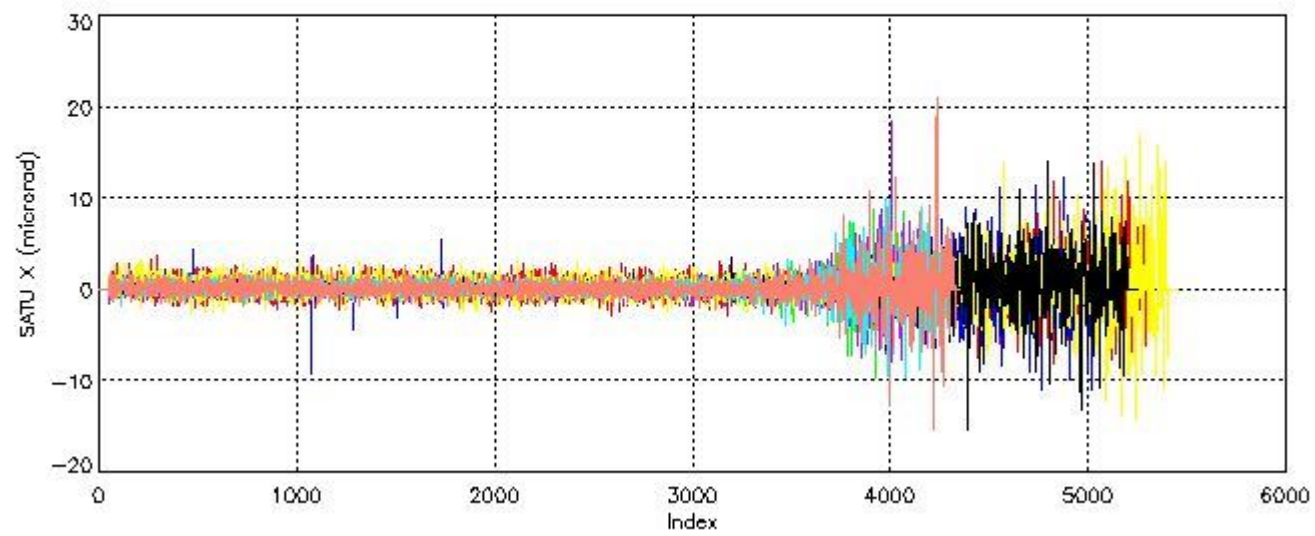


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24492	-1.0573	0.25136	-1.0487
St. deviation:	0.58598	2.6017	0.84346	2.8426
Maximum:	4.4000	6.3000	5.7000	9.1000
Minimum:	-2.6000	-8.2000	-4.7000	-10.600

Number of data:	8300.0	8300.0	21800.	21800.
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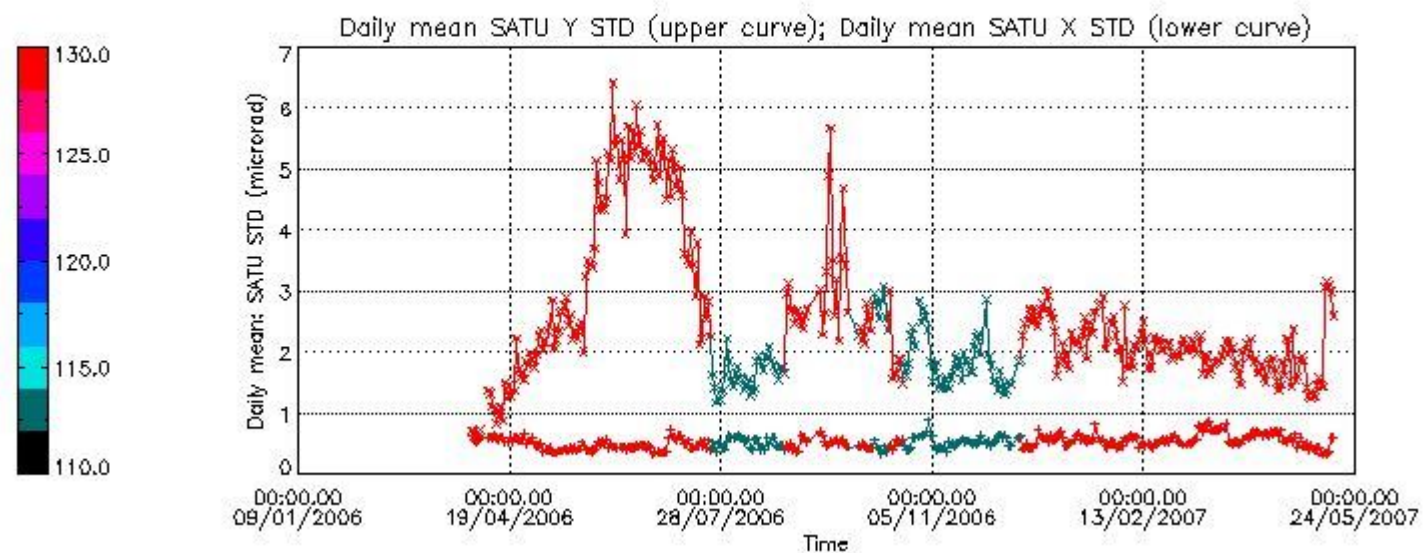
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

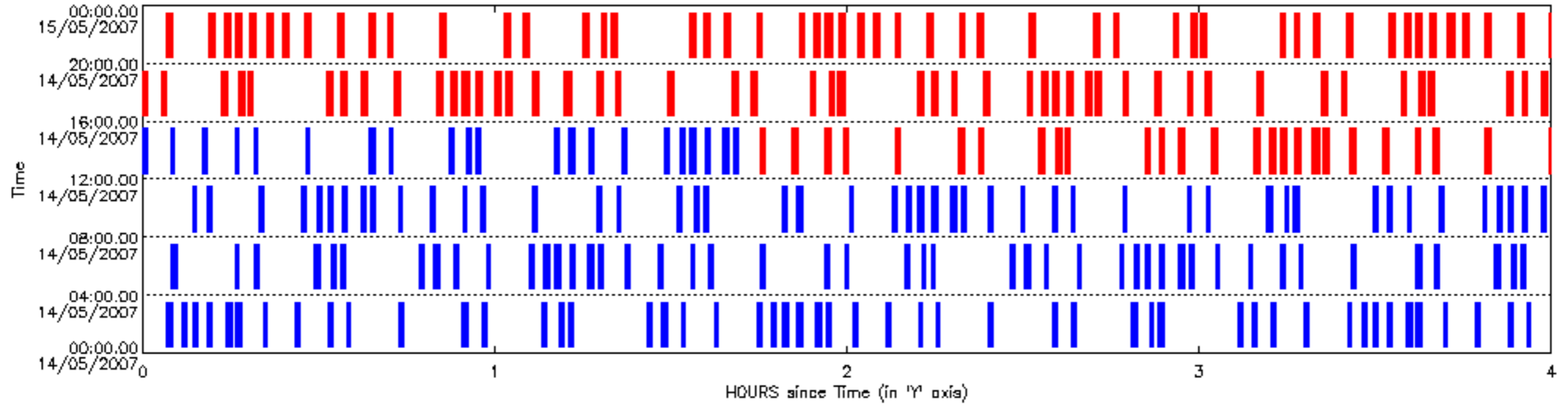
Lower curve: STD of SATU X axis

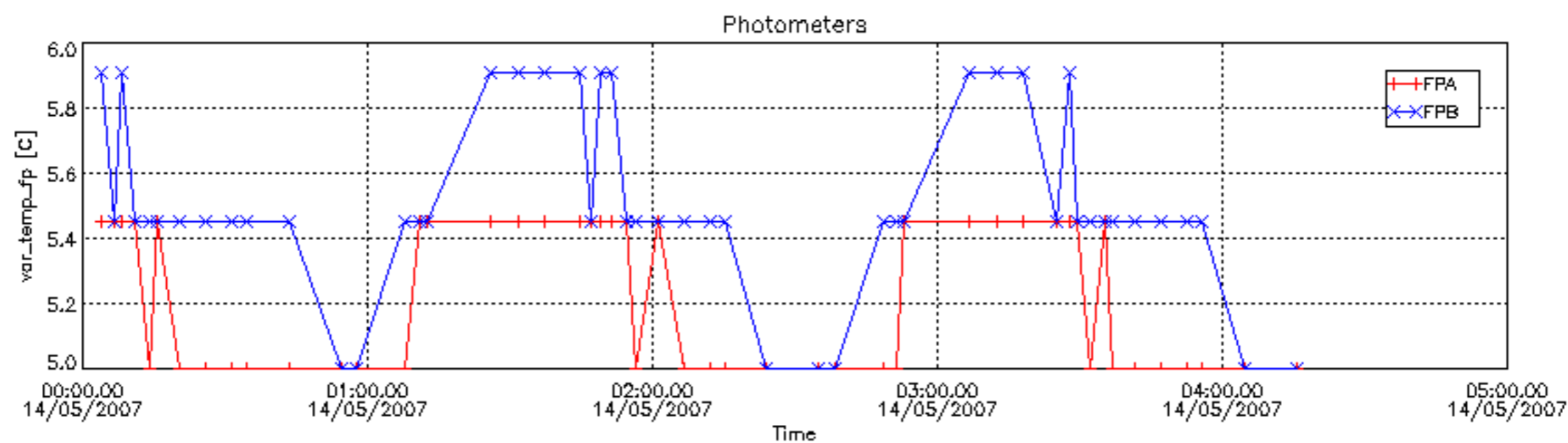
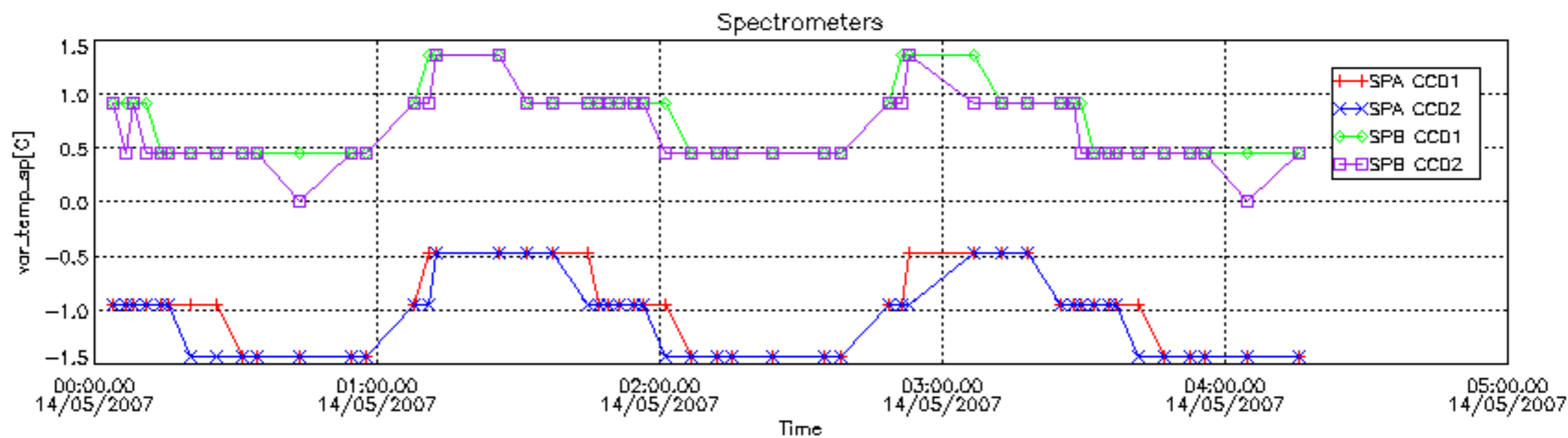


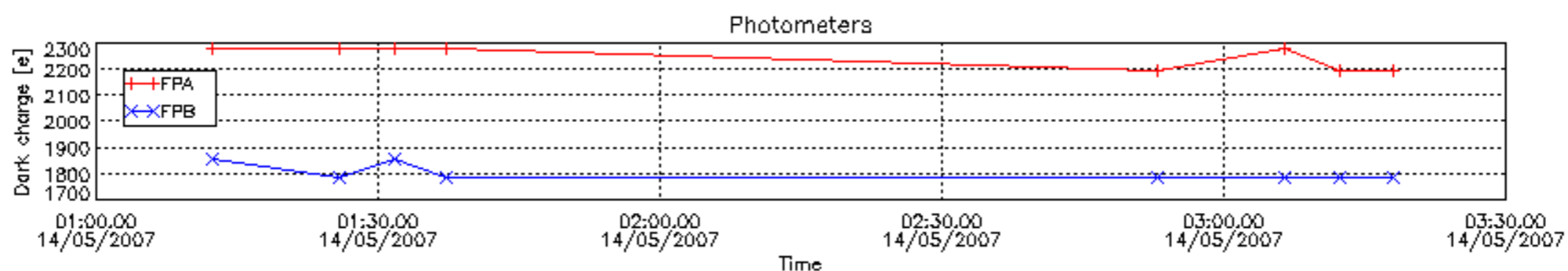
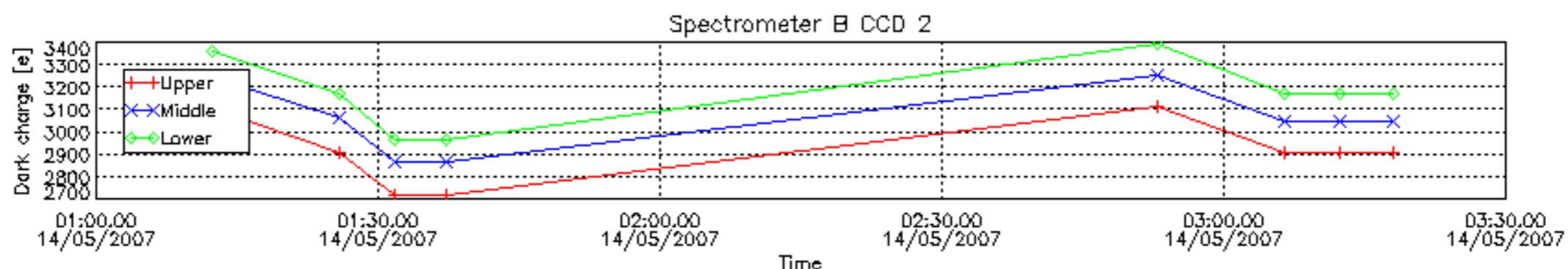
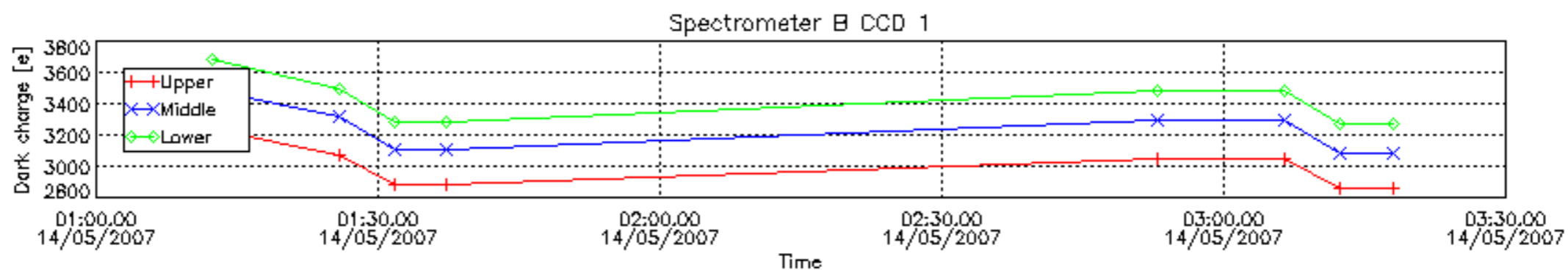
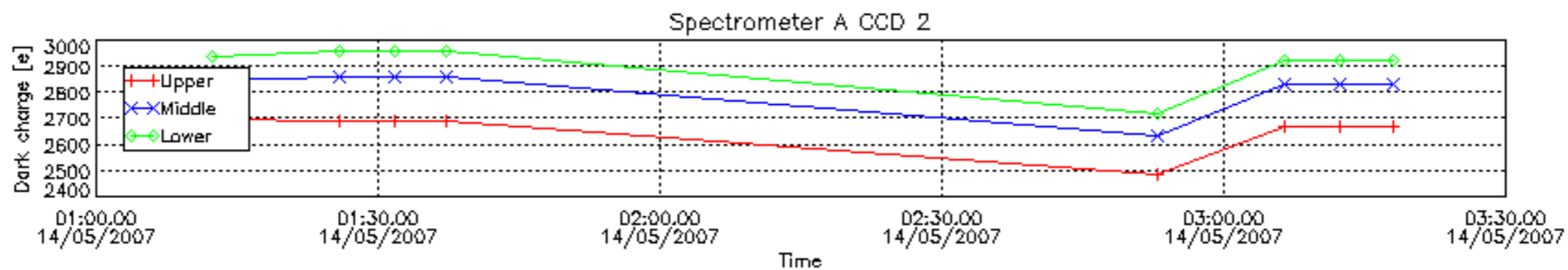
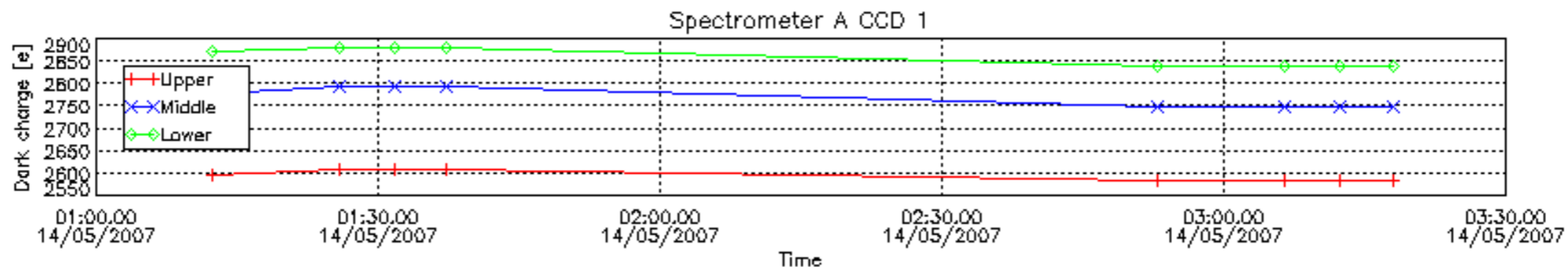
8. Auxiliary Data Files used for the production reported in section 2.4

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.

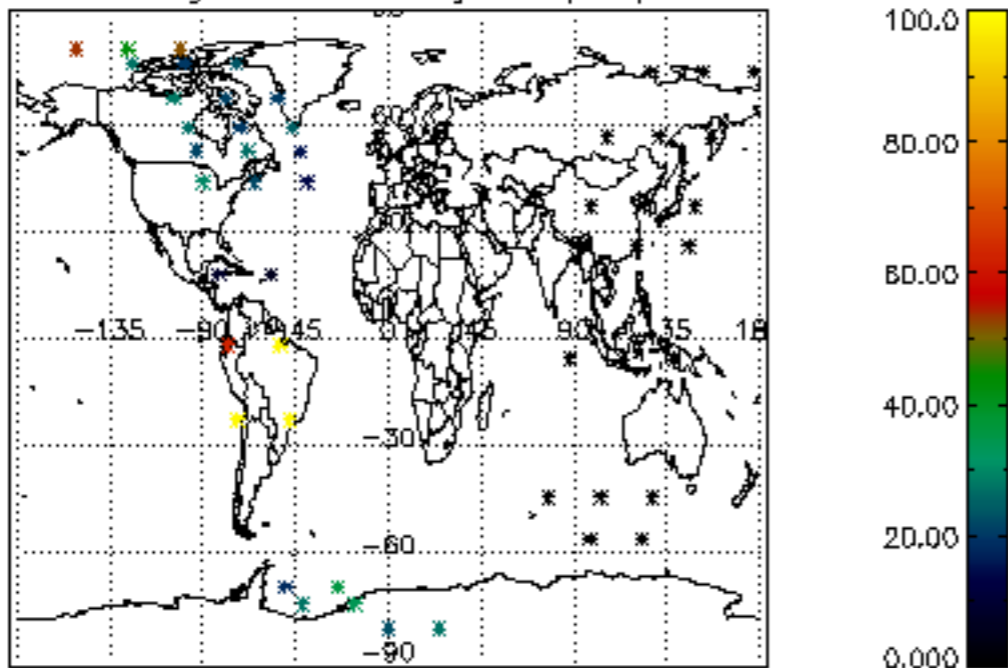
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	14-MAY-2007 00:04:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-MAY-2007 00:04:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-MAY-2007 00:04:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-MAY-2007 00:04:01
ECMWF_FILE	AUX_ECF_AXNECM20070514_114117_20070513_210000_20070514_090000	1	14-MAY-2007 00:04:01
ECMWF_FILE	AUX_ECF_AXNECM20070514_114113_20070514_030000_20070514_150000	50	14-MAY-2007 04:15:35
OPTIONAL_ECMWF_FILE	MISSING	1	14-MAY-2007 00:04:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070513_233650_000057382058_00087_27195_3477.N1	1	14-MAY-2007 00:04:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070514_023210_000057382058_00089_27197_3479.N1	31	14-MAY-2007 02:34:59
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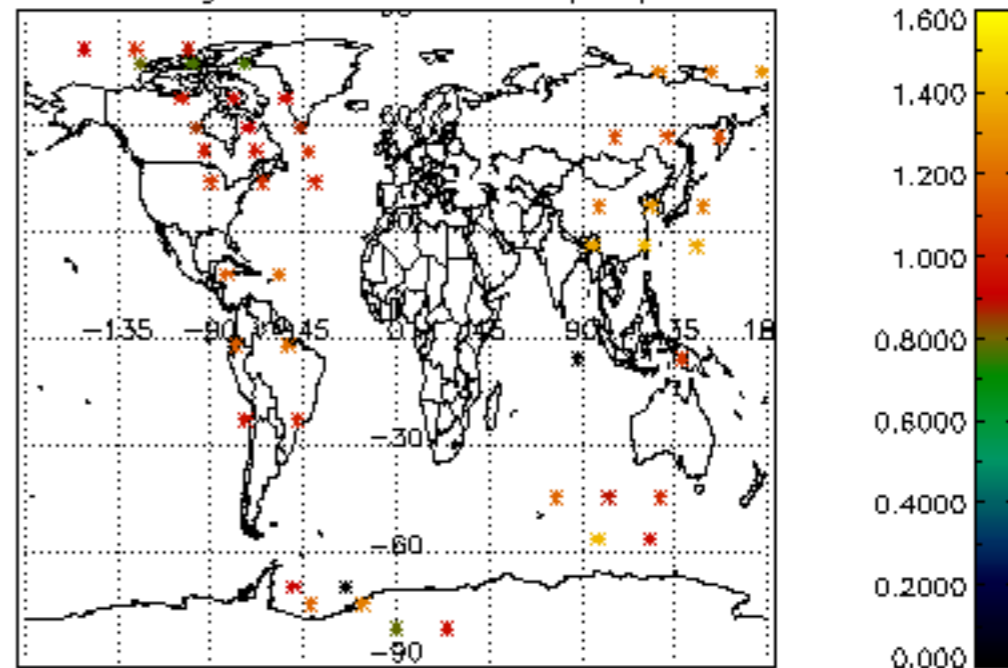




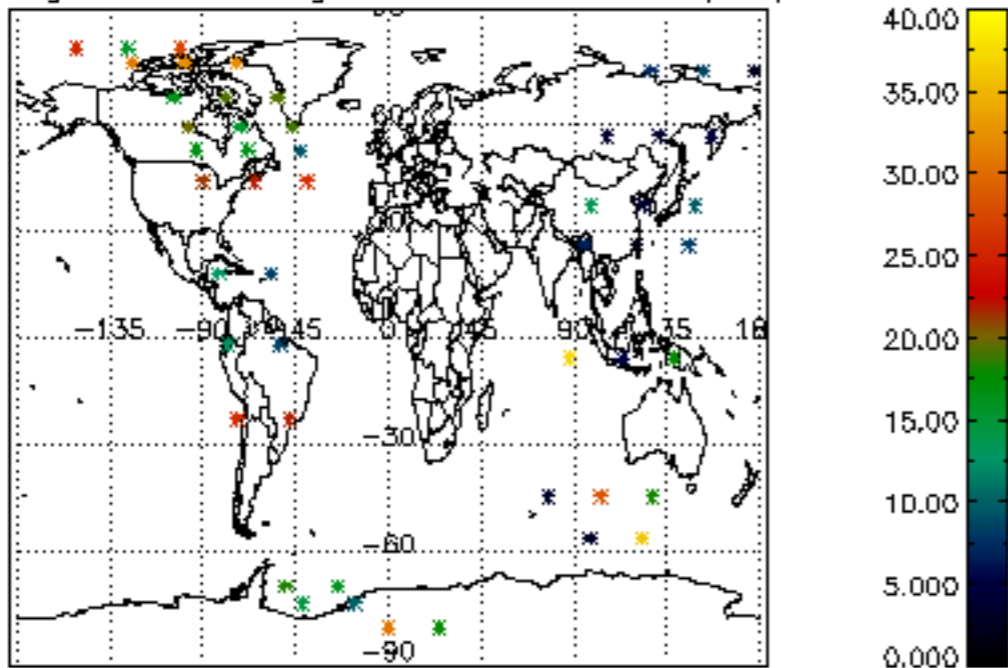
Percentage of cosmic ray hits per profile



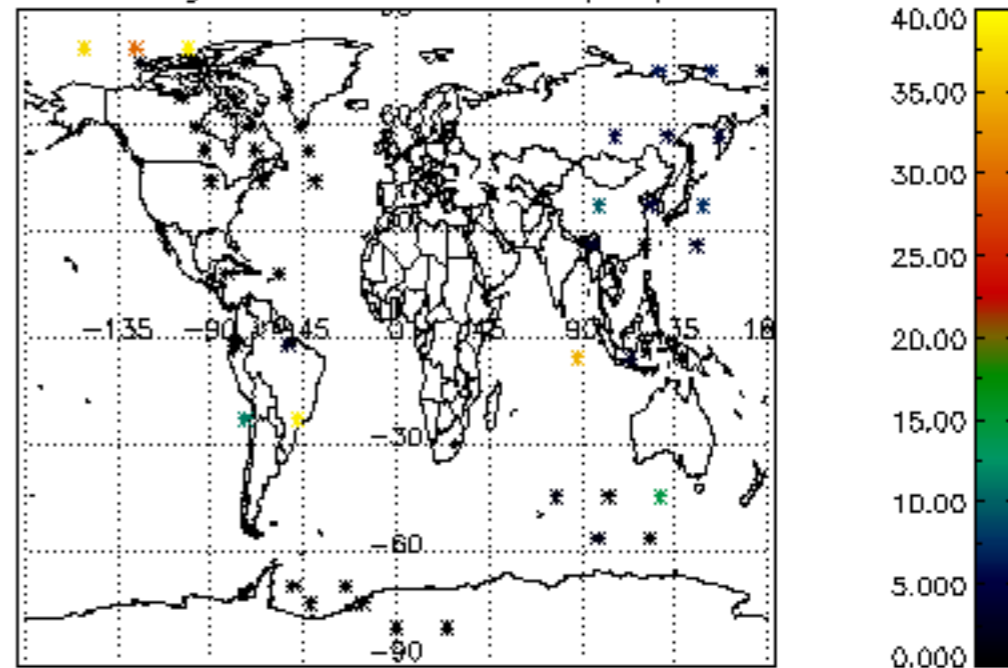
Percentage of datation errors per profile



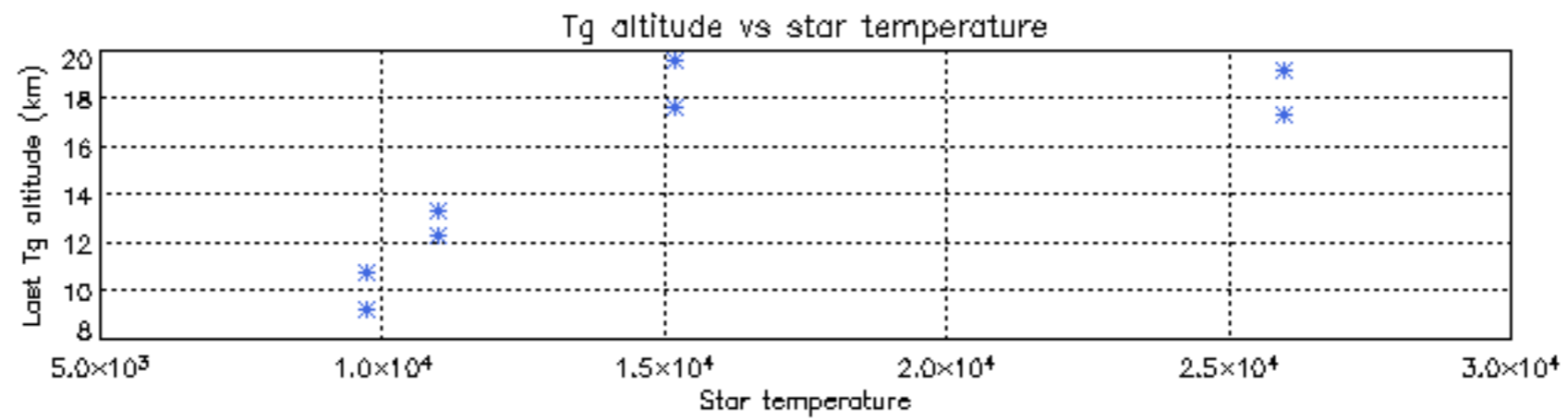
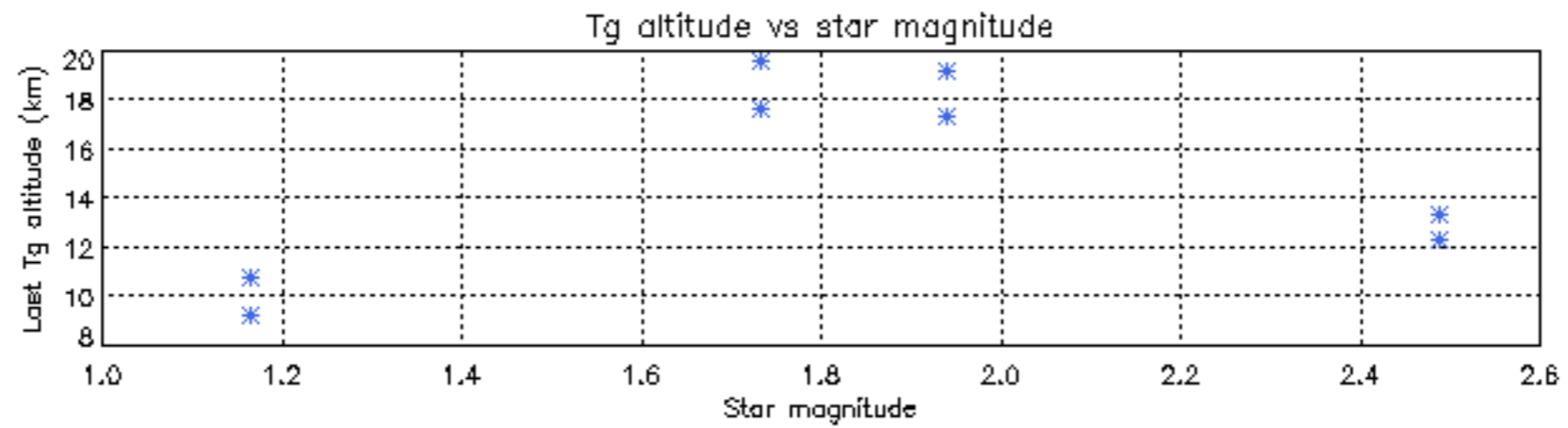
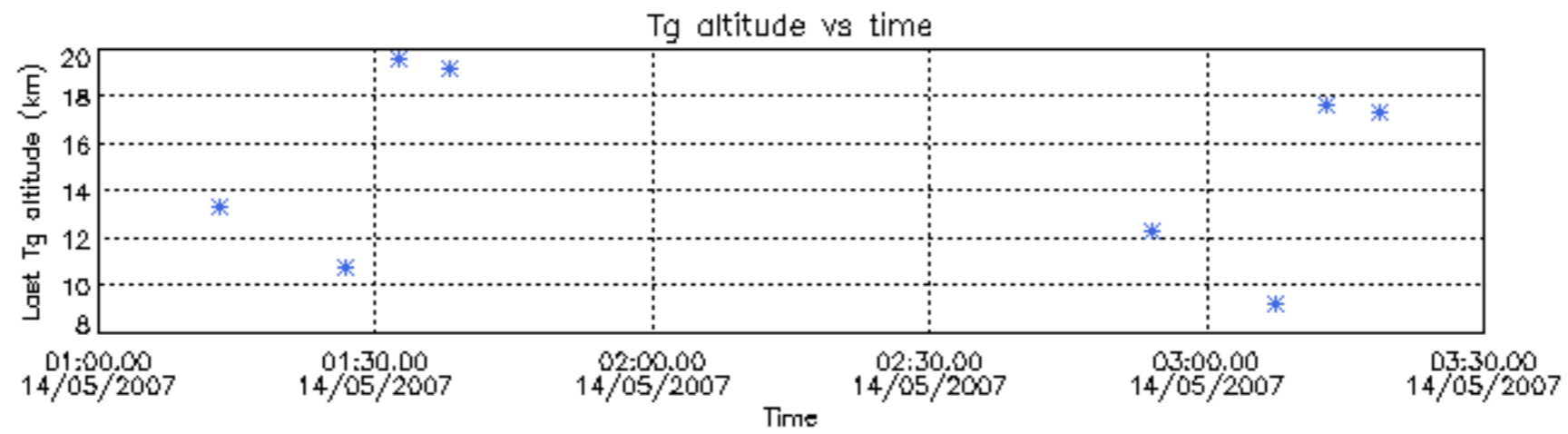
Percentage of star falling outside central band per profile



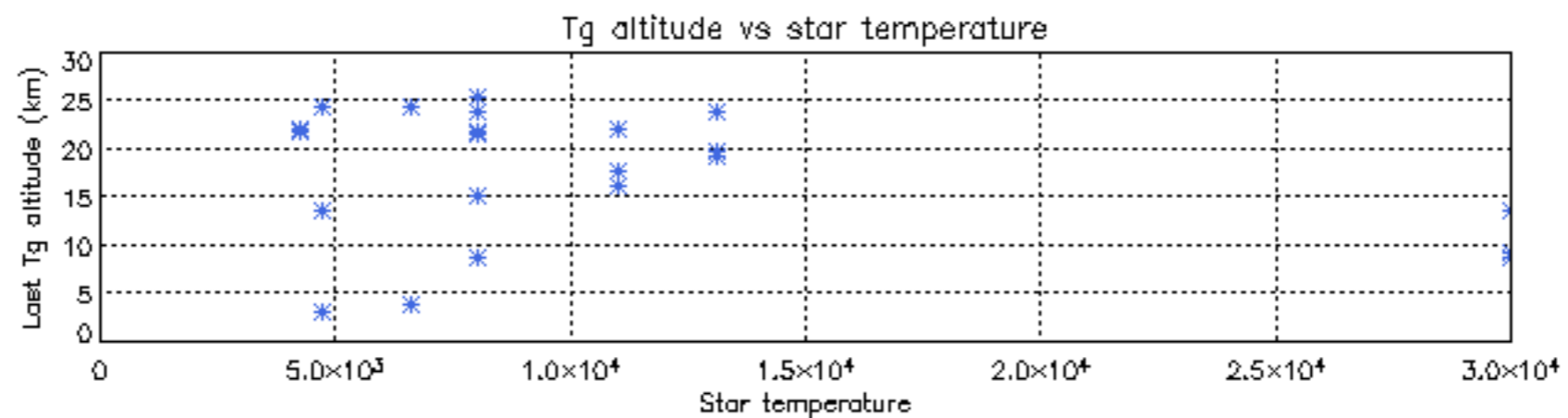
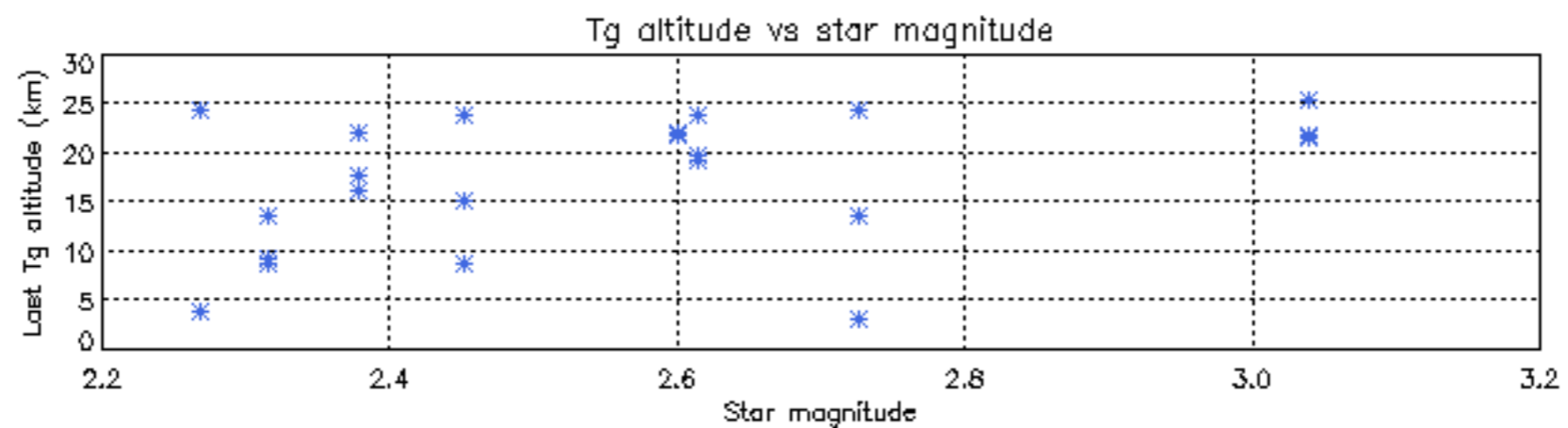
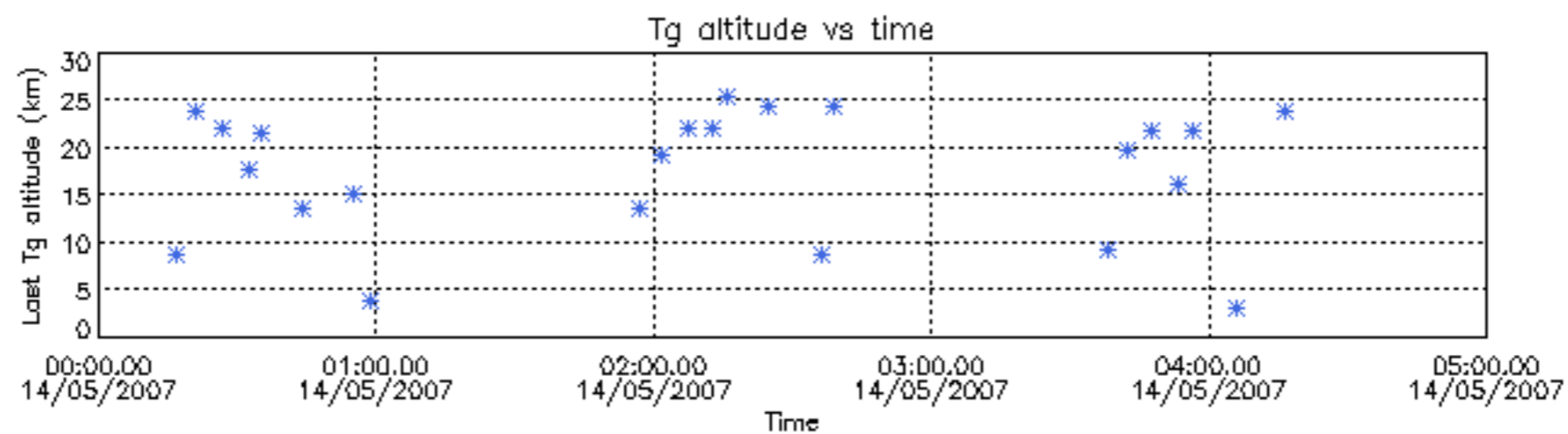
Percentage of saturation errors per profile



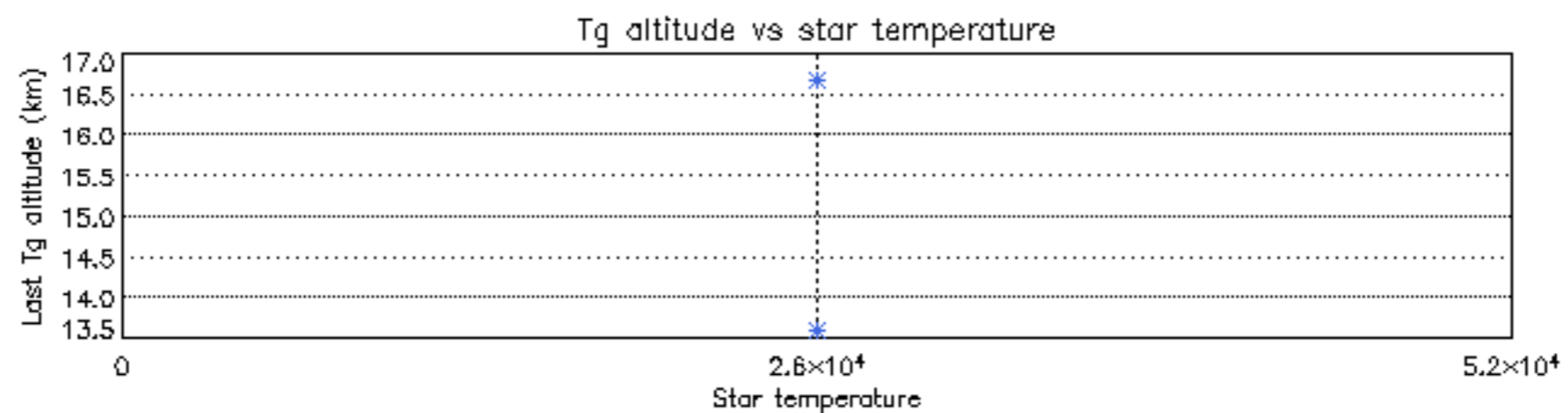
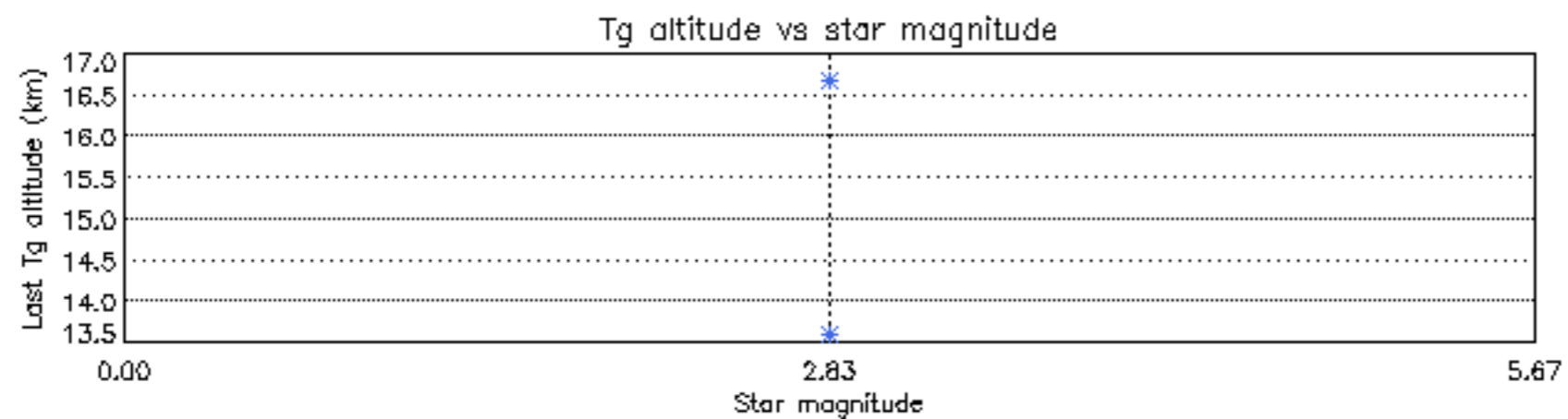
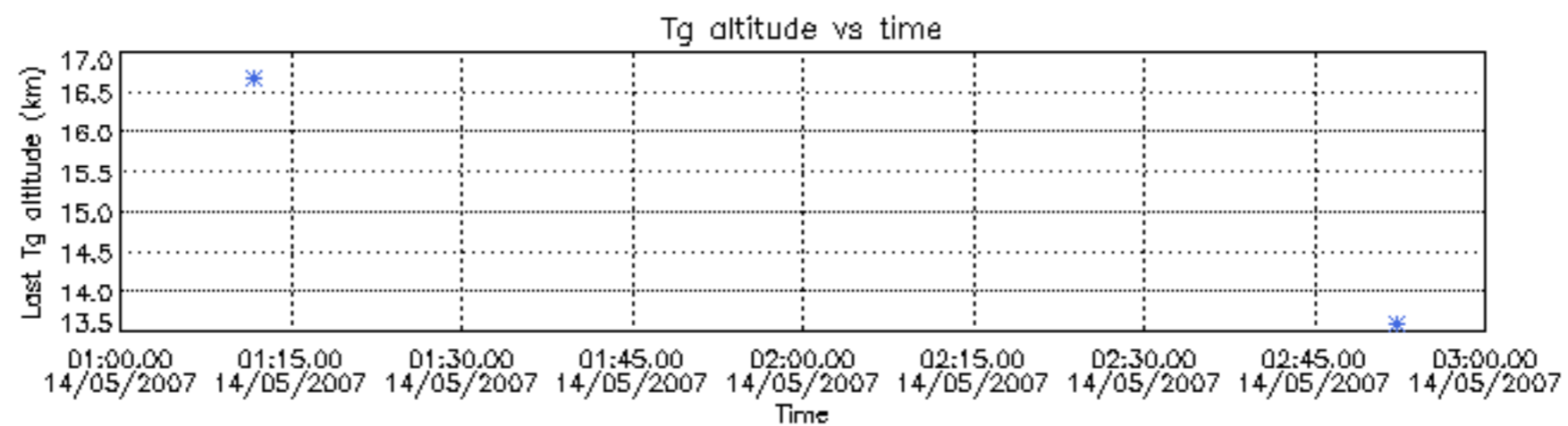
Tangent altitude at which the star is lost

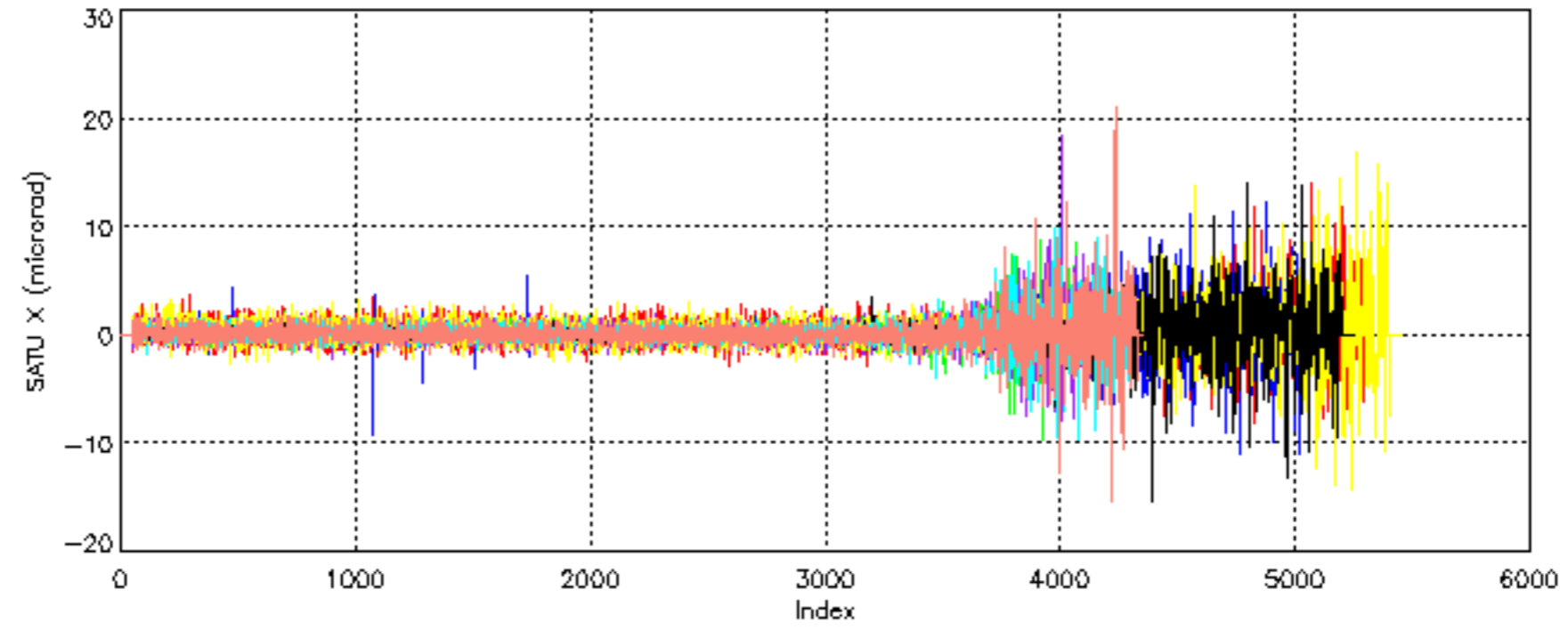


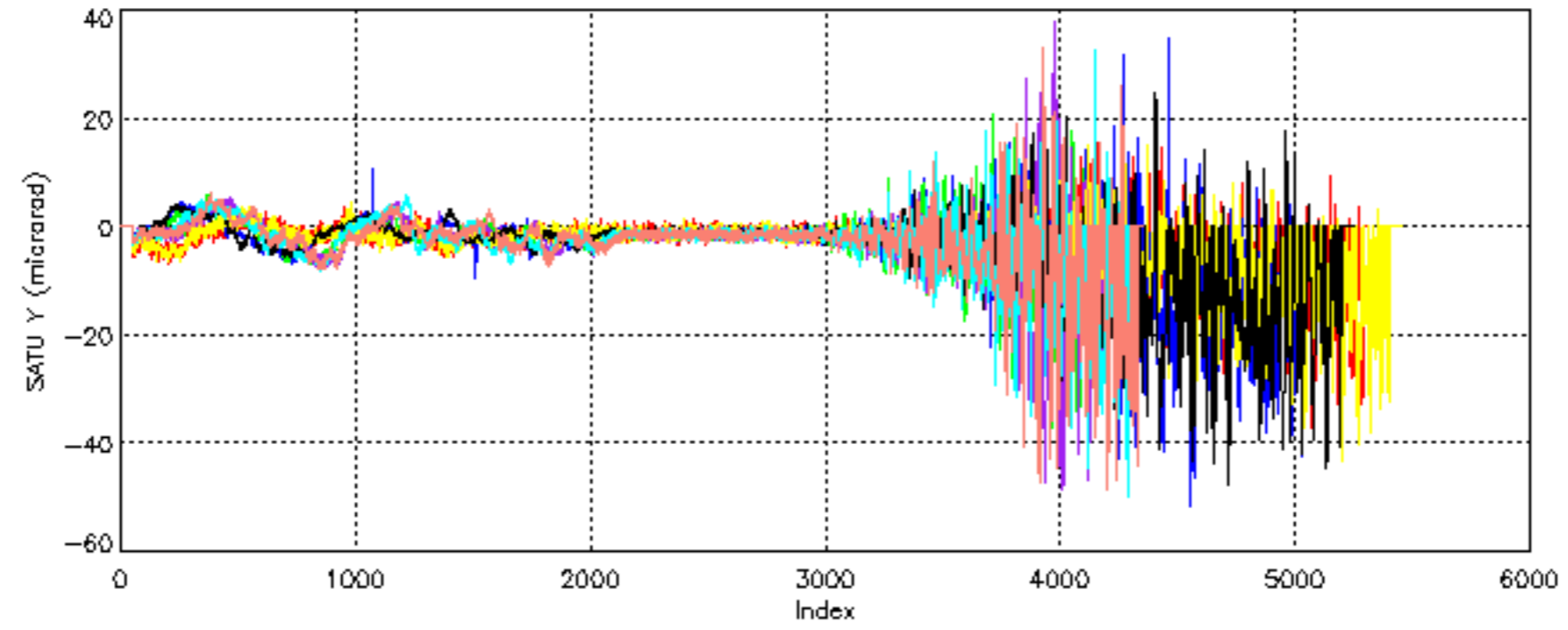
Tangent altitude at which the star is lost

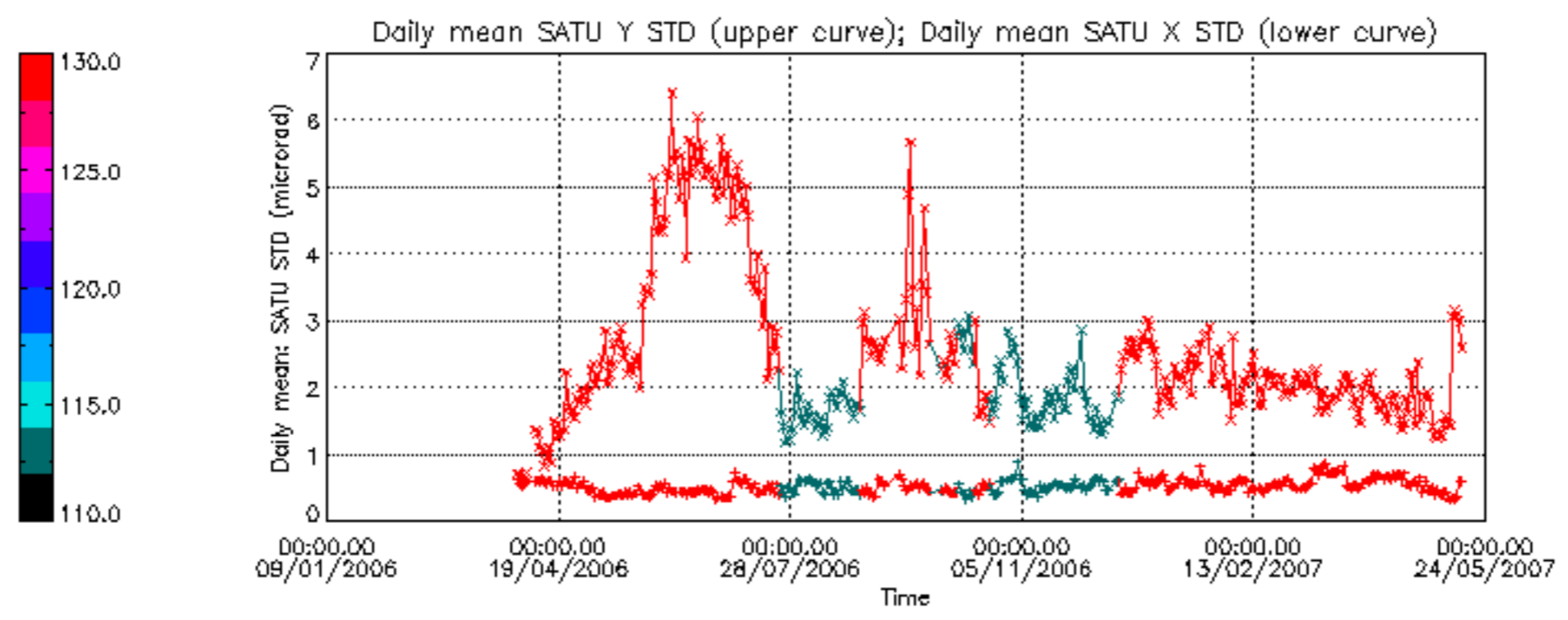


Tangent altitude at which the star is lost









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 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
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11; 1512.0; 01-MAY-2007 02:06:05; Dark ; 41.0; 169; 46Gam Hya ; 2.99; 4700;occ; 82; 0;27011
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 6; 8.5; 01-MAY-2007 05:02:13; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27013
 7; 179.1; 01-MAY-2007 05:05:04; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27013
 8; 576.2; 01-MAY-2007 05:11:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27013
 9; 707.9; 01-MAY-2007 05:13:53; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27013
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 5; 721.8; 03-MAY-2007 22:37:28; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27052
 6; 841.9; 03-MAY-2007 22:39:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;27052
 7; 1048.9; 03-MAY-2007 22:42:55; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27052
 8; 1141.1; 03-MAY-2007 22:44:27; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27052
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 6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
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Problem occurred when reading packet number 377!

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3; 1144.9; 04-MAY-2007 20:32:18; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27065
4; 1267.4; 04-MAY-2007 20:34:21; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27065
5; 1521.0; 04-MAY-2007 20:38:35; Bright; 41.5; 169; 46Gam Hya ; 2.99; 4700;occ; 83; 0;27065
6; 1718.6; 04-MAY-2007 20:41:52; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27065
7; 1905.1; 04-MAY-2007 20:44:59; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27065
8; 2100.0; 04-MAY-2007 20:48:14; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27065
9; 2560.4; 04-MAY-2007 20:55:54; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27065
10; 2844.8; 04-MAY-2007 21:00:38; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27065
11; 2932.1; 04-MAY-2007 21:02:06; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;27065
12; 3008.3; 04-MAY-2007 21:03:22; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;27065
13; 3445.2; 04-MAY-2007 21:10:39; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27065
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15; 4004.6; 04-MAY-2007 21:19:58; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27065
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5; 28.2; 04-MAY-2007 21:54:18; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27066

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17; 2844.7; 04-MAY-2007 22:41:14; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27066
18; 2932.4; 04-MAY-2007 22:42:42; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;27066
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22; 4004.7; 04-MAY-2007 23:00:34; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;27066
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7; 727.1; 04-MAY-2007 23:46:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27067
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22; 4004.8; 05-MAY-2007 00:41:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27067
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6; 24.8; 04-MAY-2007 06:48:51; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27057
7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
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11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
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13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
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21; 7555.8; 04-MAY-2007 08:54:22; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27057
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15; 2370.3; 24-MAY-2007 00:16:49; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27339
16; 2560.3; 24-MAY-2007 00:19:59; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27339
17; 3045.8; 24-MAY-2007 00:28:05; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27339
18; 3172.5; 24-MAY-2007 00:30:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27339
19; 3446.6; 24-MAY-2007 00:34:46; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27339
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22; 4381.2; 24-MAY-2007 00:50:20; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;27339
23; 4533.3; 24-MAY-2007 00:52:52; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;27339
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4; -1239.6; 23-MAY-2007 06:30:40; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27328
5; -711.6; 23-MAY-2007 06:39:28; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27328
6; -189.6; 23-MAY-2007 06:48:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27328
7; -27.3; 23-MAY-2007 06:50:52; Dark ; 58.0; 63; Bet Gru ; 2.15; 2800;occ; 116; 0;27328
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9; 396.6; 23-MAY-2007 06:57:56; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329
10; 805.9; 23-MAY-2007 07:04:46; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;27329
11; 971.2; 23-MAY-2007 07:07:31; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27329
12; 1206.0; 23-MAY-2007 07:11:26; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27329
13; 1378.7; 23-MAY-2007 07:14:18; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;27329
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15; 1629.8; 23-MAY-2007 07:18:29; Bright; 35.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 71; 0;27329
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13; 5846.9; 23-MAY-2007 08:28:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27329
14; 6009.4; 23-MAY-2007 08:31:29; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27329
15; 6109.2; 23-MAY-2007 08:33:09; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27329
16; 6433.2; 23-MAY-2007 08:38:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27329
17; 6842.3; 23-MAY-2007 08:45:22; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27329
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19; 7242.3; 23-MAY-2007 08:52:02; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27329
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22; 7665.8; 23-MAY-2007 08:59:05; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27329
23; 7769.9; 23-MAY-2007 09:00:50; Bright; 35.5; 104; 27Bet Lib ; 2.61; 13100;occ; 71; 0;27329

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4; 3049.5; 23-MAY-2007 09:22:45; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;27330
5; 3173.3; 23-MAY-2007 09:24:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27330
6; 3446.6; 23-MAY-2007 09:29:22; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27330
7; 3937.3; 23-MAY-2007 09:37:33; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;27330
8; 4009.6; 23-MAY-2007 09:38:45; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;27330
9; 4531.8; 23-MAY-2007 09:47:27; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27330
10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330
12; 5847.4; 23-MAY-2007 10:09:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27330
13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330
14; 6110.1; 23-MAY-2007 10:13:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27330
15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330
19; 7415.2; 23-MAY-2007 10:35:31; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27330
20; 7510.4; 23-MAY-2007 10:37:06; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27330
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5; 2560.6; 23-MAY-2007 10:55:12; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27331
6; 3049.0; 23-MAY-2007 11:03:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27331
7; 3173.2; 23-MAY-2007 11:05:25; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27331
8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331
10; 4009.5; 23-MAY-2007 11:19:21; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27331
11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331
12; 4797.2; 23-MAY-2007 11:32:29; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27331
13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
15; 6010.8; 23-MAY-2007 11:52:42; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27331
16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	119;	0;	27332

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3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27333	
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	;	2.73;	4700;occ;	116;	0;	27333	
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	27333	
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	27333	
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	;	2.30;	30000;occ;	82;	0;	27333	
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	27333	
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	90;	0;	27333	
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27333	
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	85;	0;	27333	
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27333	
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	27333	
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;	27333	
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27333	
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	27333	
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	27333	
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	;	115;	34Ups Sco	;	2.70;	26000;occ;	52;	0;	27333	
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	98;	0;	27333	
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2;	1524.4;	23-MAY-2007	15:39:44;	Bright;	40.5;	97;	8Bet1Sco	;	2.56;	30000;occ;	81;	0;	27334	
3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	69;	0;	27334	
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	;	2.61;	13100;occ;	73;	0;	27334	
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 4; 412.6; 24-MAY-2007 21:31:59; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27352
 5; 815.9; 24-MAY-2007 21:38:42; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27352
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18; 6464.8; 26-MAY-2007 12:06:02; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27374
19; 6861.8; 26-MAY-2007 12:12:39; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27374
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21; 7141.5; 26-MAY-2007 12:17:18; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27374
22; 7258.8; 26-MAY-2007 12:19:16; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27374
23; 7387.0; 26-MAY-2007 12:21:24; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27374
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 3; 1837.5; 26-MAY-2007 12:29:30; Bright; 41.5; 120; 1Del Oph ; 2.73; 3200;occ; 83; 0;27375
 4; 2020.5; 26-MAY-2007 12:32:33; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27375
 5; 2369.2; 26-MAY-2007 12:38:22; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27375
 6; 2559.7; 26-MAY-2007 12:41:32; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;27375
 7; 3032.5; 26-MAY-2007 12:49:25; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27375
 8; 3169.9; 26-MAY-2007 12:51:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27375
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11; 4007.2; 26-MAY-2007 13:05:40; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;27375
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19; 6465.6; 26-MAY-2007 13:46:38; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27375
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22; 7142.1; 26-MAY-2007 13:57:55; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;27375
23; 7259.2; 26-MAY-2007 13:59:52; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27375
24; 7387.4; 26-MAY-2007 14:02:00; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;27375
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 2; 1738.0; 26-MAY-2007 14:08:26; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27376
 3; 1837.5; 26-MAY-2007 14:10:06; Bright; 41.5; 120; 1Del Oph ; 2.73; 3200;occ; 83; 0;27376
 4; 2020.4; 26-MAY-2007 14:13:09; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27376
 5; 2369.3; 26-MAY-2007 14:18:58; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;27376
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 7; 3032.2; 26-MAY-2007 14:30:01; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27376
 8; 3170.0; 26-MAY-2007 14:32:18; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27376

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 11; 4007.2; 26-MAY-2007 14:46:16; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;27376
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 4; 1837.4; 26-MAY-2007 15:50:42; Bright; 41.5; 120; 1Del Oph ; 2.73; 3200;occ; 83; 0;27377
 5; 2020.3; 26-MAY-2007 15:53:45; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27377
 6; 2369.3; 26-MAY-2007 15:59:34; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0;27377
 7; 3031.8; 26-MAY-2007 16:10:36; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27377
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 9; 3446.8; 26-MAY-2007 16:17:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27377
 10; 3935.4; 26-MAY-2007 16:25:40; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;27377
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 20; 6863.3; 26-MAY-2007 17:14:28; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27377
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 5; 1531.3; 26-MAY-2007 17:26:12; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27378
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 7; 1837.4; 26-MAY-2007 17:31:18; Bright; 41.5; 120; 1Del Oph ; 2.73; 3200;occ; 83; 0;27378
 8; 2020.3; 26-MAY-2007 17:34:21; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27378
 9; 2369.2; 26-MAY-2007 17:40:10; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27378
 10; 2559.6; 26-MAY-2007 17:43:20; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27378
 11; 3031.5; 26-MAY-2007 17:51:12; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27378
 12; 3169.8; 26-MAY-2007 17:53:30; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;27378
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 3; -159.3; 27-MAY-2007 01:21:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27382


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6; 434.5; 27-MAY-2007 01:30:55; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27383
7; 829.3; 27-MAY-2007 01:37:29; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27383
8; 999.6; 27-MAY-2007 01:40:20; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;27383
9; 1109.5; 27-MAY-2007 01:42:10; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;27383
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9; 829.8; 27-MAY-2007 03:18:06; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27384
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12; 1226.2; 27-MAY-2007 03:24:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;27384
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11; 5383.9; 31-MAY-2007 12:31:08; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27446
12; 5645.3; 31-MAY-2007 12:35:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27446
13; 5786.6; 31-MAY-2007 12:37:50; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;27446
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16; 6515.1; 31-MAY-2007 12:49:59; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27446
17; 6890.9; 31-MAY-2007 12:56:15; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;27446
18; 6965.4; 31-MAY-2007 12:57:29; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27446
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22; 7405.5; 31-MAY-2007 13:04:49; Dark ; 41.0; 136; 23Tau Sco ; 2.82; 30000;occ; 82; 0;27446
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2; 1702.1; 31-MAY-2007 13:10:22; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27447
3; 1834.3; 31-MAY-2007 13:12:34; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;27447
4; 2015.3; 31-MAY-2007 13:15:35; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27447
5; 2370.9; 31-MAY-2007 13:21:31; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27447
6; 3008.8; 31-MAY-2007 13:32:09; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27447

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8; 3446.9; 31-MAY-2007 13:39:27; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27447
9; 3930.2; 31-MAY-2007 13:47:30; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27447
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12; 5645.8; 31-MAY-2007 14:16:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27447
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14; 6102.8; 31-MAY-2007 14:23:42; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27447
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19; 7066.9; 31-MAY-2007 14:39:47; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27447
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10; 3930.5; 31-MAY-2007 15:28:06; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27448
11; 4393.3; 31-MAY-2007 15:35:49; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;27448
12; 5385.1; 31-MAY-2007 15:52:21; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27448
13; 5646.3; 31-MAY-2007 15:56:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27448
14; 5787.9; 31-MAY-2007 15:59:04; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;27448
15; 6103.7; 31-MAY-2007 16:04:19; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;27448
16; 6215.1; 31-MAY-2007 16:06:11; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27448
17; 6516.5; 31-MAY-2007 16:11:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27448
18; 6891.8; 31-MAY-2007 16:17:27; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27448
19; 6966.5; 31-MAY-2007 16:18:42; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;27448
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4; 1542.4; 31-MAY-2007 16:28:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27449
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6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
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11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
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4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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10;	3007.9;	31-MAY-2007	18:33:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;27450	
11;	3166.3;	31-MAY-2007	18:36:34;	Bright;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;27450	
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13;	3930.1;	31-MAY-2007	18:49:18;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;27450	
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19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
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22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450