

GOMOS Daily Report 29-APR-2009

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	01MAY2009 04:32:24
Data source version	GOMOS/5.00
Start time of products	29APR2009 20:08:05
Stop time of products	29APR2009 23:58:06
Store outputs in DB	Yes
Nb of level 1b prods	44
Nb of prods with errors	1

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

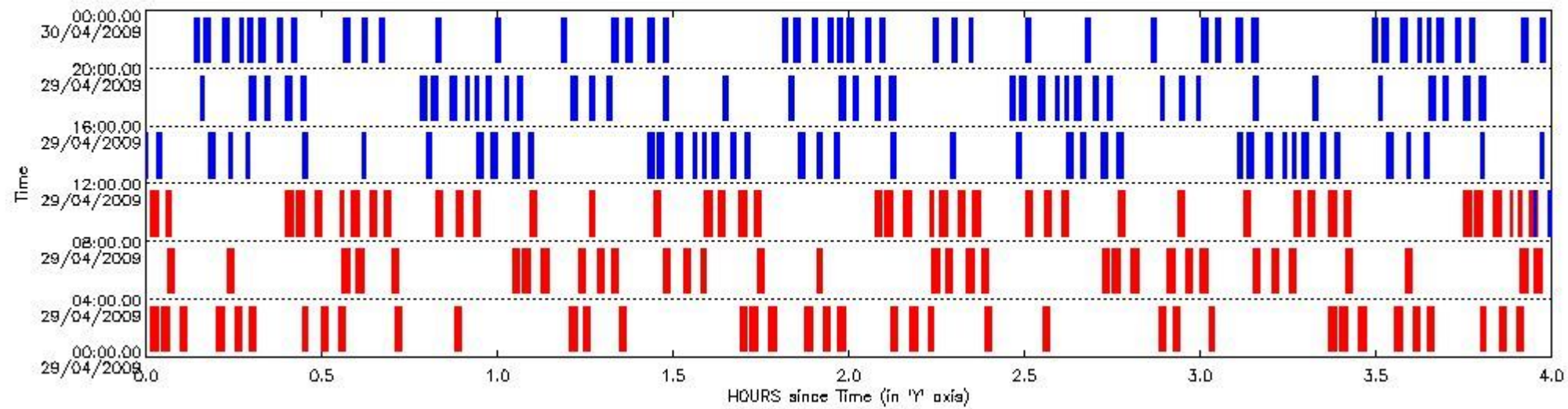
2.1 Level 0 products arrived in PCF (see template [here](#))

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
29-APR-2009 00:00:44	TheSco	40	37445
29-APR-2009 00:02:26	35LamSco	25	37445
29-APR-2009 00:05:41	26EpsSco	75	37445
29-APR-2009 00:11:53	7DelSco	80	37445
29-APR-2009 00:15:09	9Alp2Lib	122	37445
29-APR-2009 00:17:31	27BetLib	104	37445
29-APR-2009 00:26:34	16AlpBoo	3	37445
29-APR-2009 00:29:52		83	37445
29-APR-2009 00:32:51	27GamBoo	180	37445
29-APR-2009 00:42:29	14EtaDra	119	37445
29-APR-2009 00:52:38	5AlpCep	89	37445
29-APR-2009 01:12:12	8EpsPeg	61	37445
29-APR-2009 01:14:38	34AlpAqr	162	37445
29-APR-2009 01:20:49	DSA1038	0	37445
29-APR-2009 01:41:20	TheSco	40	37446

29-APR-2009 01:43:03	35LamSco	25	37446
29-APR-2009 01:46:17	26EpsSco	75	37446
29-APR-2009 01:52:29	7DelSco	80	37446
29-APR-2009 01:55:45	9Alp2Lib	122	37446
29-APR-2009 01:58:07	27BetLib	104	37446
29-APR-2009 02:07:10	16AlpBoo	3	37446
29-APR-2009 02:10:28		83	37446
29-APR-2009 02:13:26	27GamBoo	180	37446
29-APR-2009 02:23:04	14EtaDra	119	37446
29-APR-2009 02:33:13	5AlpCep	89	37446
29-APR-2009 02:52:49	8EpsPeg	61	37446
29-APR-2009 02:55:15	34AlpAqr	162	37446
29-APR-2009 03:01:26	DSA1038	0	37446
29-APR-2009 03:21:57	TheSco	40	37447
29-APR-2009 03:23:40	35LamSco	25	37447
29-APR-2009 03:26:54	26EpsSco	75	37447
29-APR-2009 03:33:05	7DelSco	80	37447
29-APR-2009 03:36:21	9Alp2Lib	122	37447
29-APR-2009 03:38:43	27BetLib	104	37447
29-APR-2009 03:47:45	16AlpBoo	3	37447
29-APR-2009 03:51:03		83	37447
29-APR-2009 03:54:01	27GamBoo	180	37447
29-APR-2009 04:03:40	14EtaDra	119	37447
29-APR-2009 04:13:49	5AlpCep	89	37447
29-APR-2009 04:33:25	8EpsPeg	61	37447
29-APR-2009 04:35:52	34AlpAqr	162	37447
29-APR-2009 04:42:03	DSA1038	0	37447
29-APR-2009 05:02:34	TheSco	40	37448
29-APR-2009 05:04:17	35LamSco	25	37448
29-APR-2009 05:07:31	26EpsSco	75	37448
29-APR-2009 05:13:42	7DelSco	80	37448
29-APR-2009 05:16:57	9Alp2Lib	122	37448
29-APR-2009 05:19:19	27BetLib	104	37448
29-APR-2009 05:28:21	16AlpBoo	3	37448
29-APR-2009 05:31:38		83	37448
29-APR-2009 05:34:37	27GamBoo	180	37448
29-APR-2009 05:44:15	14EtaDra	119	37448
29-APR-2009 05:54:24	5AlpCep	89	37448
29-APR-2009 06:14:02	8EpsPeg	61	37448
29-APR-2009 06:16:28	34AlpAqr	162	37448
29-APR-2009 06:20:02	22BetAqr	154	37448
29-APR-2009 06:22:40	DSA1038	0	37448
29-APR-2009 06:43:11	TheSco	40	37449
29-APR-2009 06:44:54	35LamSco	25	37449
29-APR-2009 06:48:08	26EpsSco	75	37449
29-APR-2009 06:54:18	7DelSco	80	37449
29-APR-2009 06:57:33	9Alp2Lib	122	37449
29-APR-2009 06:59:55	27BetLib	104	37449
29-APR-2009 07:08:57	16AlpBoo	3	37449
29-APR-2009 07:12:14		83	37449
29-APR-2009 07:15:12	27GamBoo	180	37449
29-APR-2009 07:24:50	14EtaDra	119	37449
29-APR-2009 07:35:00	5AlpCep	89	37449
29-APR-2009 07:54:39	8EpsPeg	61	37449
29-APR-2009 07:57:05	34AlpAqr	162	37449
29-APR-2009 08:00:39	22BetAqr	154	37449
29-APR-2009 08:03:17	DSA1038	0	37449
29-APR-2009 08:23:48	TheSco	40	37450
29-APR-2009 08:25:31	35LamSco	25	37450

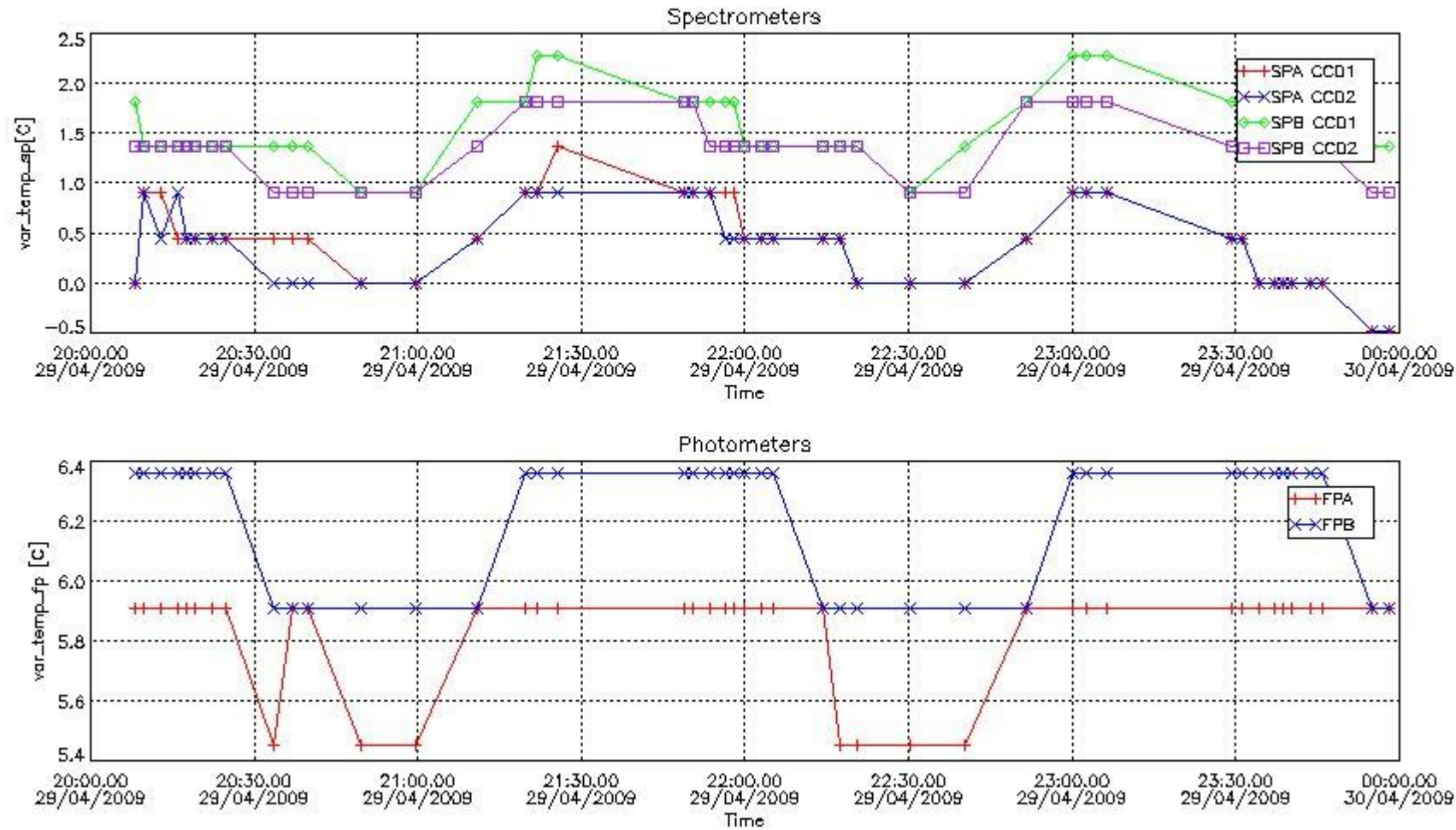
29-APR-2009 08:28:44	26EpsSco	75	37450
29-APR-2009 08:33:11	20SigSco	156	37450
29-APR-2009 08:34:54	7DelSco	80	37450
29-APR-2009 08:38:09	9Alp2Lib	122	37450
29-APR-2009 08:40:31	27BetLib	104	37450
29-APR-2009 08:49:32	16AlpBoo	3	37450
29-APR-2009 08:52:49		83	37450
29-APR-2009 08:55:48	27GamBoo	180	37450
29-APR-2009 09:05:25	14EtaDra	119	37450
29-APR-2009 09:15:36	5AlpCep	89	37450
29-APR-2009 09:26:46	44EtaPeg	164	37450
29-APR-2009 09:35:15	8EpsPeg	61	37450
29-APR-2009 09:37:42	34AlpAqr	162	37450
29-APR-2009 09:41:16	22BetAqr	154	37450
29-APR-2009 09:43:54	DSA1038	0	37450
29-APR-2009 10:04:25	TheSco	40	37451
29-APR-2009 10:06:08	35LamSco	25	37451
29-APR-2009 10:09:21	26EpsSco	75	37451
29-APR-2009 10:13:47	20SigSco	156	37451
29-APR-2009 10:15:30	7DelSco	80	37451
29-APR-2009 10:18:45	9Alp2Lib	122	37451
29-APR-2009 10:21:06	27BetLib	104	37451
29-APR-2009 10:30:08	16AlpBoo	3	37451
29-APR-2009 10:33:24		83	37451
29-APR-2009 10:36:23	27GamBoo	180	37451
29-APR-2009 10:46:01	14EtaDra	119	37451
29-APR-2009 10:56:11	5AlpCep	89	37451
29-APR-2009 11:07:22	44EtaPeg	164	37451
29-APR-2009 11:15:52	8EpsPeg	61	37451
29-APR-2009 11:18:18	34AlpAqr	162	37451
29-APR-2009 11:21:53	22BetAqr	154	37451
29-APR-2009 11:24:31	DSA1038	0	37451
29-APR-2009 11:45:02	TheSco	40	37452
29-APR-2009 11:46:45	35LamSco	25	37452
29-APR-2009 11:49:58	26EpsSco	75	37452
29-APR-2009 11:52:50	23TauSco	136	37452
29-APR-2009 11:54:23	20SigSco	156	37452
29-APR-2009 11:56:07	7DelSco	80	37452

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_1PNPDE20090429_200805_000000592078_00329_37457_4233.N1	29-APR-2009 20:08:05	Straylight	58.500	40	The Sco	1.8590	7100.0	117	37457	Yes
2	GOM_TRA_1PNPDE20090429_200949_000000632078_00329_37457_4234.N1	29-APR-2009 20:09:49	Straylight	63.000	25	35Lam Sco	1.6200	28000.	126	37457	No
3	GOM_TRA_1PNPDE20090429_201300_000000612078_00329_37457_4235.N1	29-APR-2009 20:13:00	Straylight	60.500	75	26Eps Sco	2.2910	4250.0	121	37457	No
4	GOM_TRA_1PNPDE20090429_201552_000000352078_00329_37457_4236.N1	29-APR-2009 20:15:52	Twilight_stray	35.000	136	23Tau Sco	2.8220	30000.	70	37457	No
5	GOM_TRA_1PNPDE20090429_201725_000000392078_00329_37457_4237.N1	29-APR-2009 20:17:25	Twilight_stray	39.000	156	20Sig Sco	2.9030	28000.	78	37457	No
6	GOM_TRA_1PNPDE20090429_201907_000000632078_00329_37457_4238.N1	29-APR-2009 20:19:07	Twilight_stray	63.000	80	7Del Sco	2.3160	30000.	126	37457	No
7	GOM_TRA_1PNPDE20090429_202220_000000452078_00329_37457_4239.N1	29-APR-2009 20:22:20	Bright	44.500	122	9Alp2Lib	2.7470	9700.0	89	37457	No
8	GOM_TRA_1PNPDE20090429_202441_000000502078_00329_37457_4240.N1	29-APR-2009 20:24:41	Bright	50.000	104	27Bet Lib	2.6140	13100.	100	37457	No
9	GOM_TRA_1PNPDE20090429_203341_000000602078_00329_37457_4241.N1	29-APR-2009 20:33:41	Bright	60.000	3	16Alp Boo	-0.050000	4250.0	120	37457	No
10	GOM_TRA_1PNPDE20090429_203656_000000442078_00329_37457_4242.N1	29-APR-2009 20:36:56	Bright	44.000	83		2.3780	11000.	88	37457	No
11	GOM_TRA_1PNPDE20090429_203955_000000412078_00329_37457_4243.N1	29-APR-2009 20:39:55	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	37457	No
12	GOM_TRA_1PNPDE20090429_204932_000000442078_00329_37457_4244.N1	29-APR-2009 20:49:32	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	37457	No
13	GOM_TRA_1PNPDE20090429_205945_000000422078_00329_37457_4245.N1	29-APR-2009 20:59:45	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	37457	No
14	GOM_TRA_1PNPDE20090429_211058_000000432078_00329_37457_4246.N1	29-APR-2009 21:10:58	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	37457	No
15	GOM_TRA_1PNPDE20090429_211932_000000652078_00329_37457_4247.N1	29-APR-2009 21:19:32	Dark	64.500	61	8Eps Peg	2.1000	3900.0	129	37457	No
16	GOM_TRA_1PNPDE20090429_212158_000000562078_00329_37457_4248.N1	29-APR-2009 21:21:58	Dark	55.500	162	34Alp Aqr	2.9440	5350.0	111	37457	No

17	GOM_TRA_1PNPDE20090429_212535_00000592078_00329_37457_4391.N1	29-APR-2009 21:25:35	Dark	58.500	154	22Bet Aqr	2.8990	5700.0	117	37457	No
18	GOM_TRA_1PNPDE20090429_214842_00000502078_00330_37458_4392.N1	29-APR-2009 21:48:42	Straylight	49.500	40	The Sco	1.8590	7100.0	99	37458	No
19	GOM_TRA_1PNPDE20090429_215026_00000642078_00330_37458_4393.N1	29-APR-2009 21:50:26	Straylight	64.000	25	35Lam Sco	1.6200	28000.	128	37458	No
20	GOM_TRA_1PNPDE20090429_215337_00000632078_00330_37458_4394.N1	29-APR-2009 21:53:37	Straylight	63.000	75	26Eps Sco	2.2910	4250.0	126	37458	No
21	GOM_TRA_1PNPDE20090429_215628_00000382078_00330_37458_4395.N1	29-APR-2009 21:56:28	Tw_i_and_stray	38.000	136	23Tau Sco	2.8220	30000.	76	37458	No
22	GOM_TRA_1PNPDE20090429_215801_00000432078_00330_37458_4396.N1	29-APR-2009 21:58:01	Tw_i_and_stray	43.000	156	20Sig Sco	2.9030	28000.	86	37458	No
23	GOM_TRA_1PNPDE20090429_215944_00000622078_00330_37458_4397.N1	29-APR-2009 21:59:44	Tw_i_and_stray	61.500	80	7Del Sco	2.3160	30000.	123	37458	No
24	GOM_TRA_1PNPDE20090429_220257_00000462078_00330_37458_4398.N1	29-APR-2009 22:02:57	Bright	46.000	122	9Alp2Lib	2.7470	9700.0	92	37458	No
25	GOM_TRA_1PNPDE20090429_220517_00000502078_00330_37458_4399.N1	29-APR-2009 22:05:17	Bright	50.000	104	27Bet Lib	2.6140	13100.	100	37458	No
26	GOM_TRA_1PNPDE20090429_221416_00000602078_00330_37458_4400.N1	29-APR-2009 22:14:16	Bright	60.000	3	16Alp Boo	-0.050000	4250.0	120	37458	No
27	GOM_TRA_1PNPDE20090429_221731_00000492078_00330_37458_4401.N1	29-APR-2009 22:17:31	Bright	48.500	83		2.3780	11000.	97	37458	No
28	GOM_TRA_1PNPDE20090429_222031_00000392078_00330_37458_4402.N1	29-APR-2009 22:20:31	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	37458	No
29	GOM_TRA_1PNPDE20090429_223007_00000452078_00330_37458_4403.N1	29-APR-2009 22:30:07	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37458	No
30	GOM_TRA_1PNPDE20090429_224020_00000522078_00330_37458_4404.N1	29-APR-2009 22:40:20	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	37458	No
31	GOM_TRA_1PNPDE20090429_225134_00000432078_00330_37458_4405.N1	29-APR-2009 22:51:34	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	37458	No
32	GOM_TRA_1PNPDE20090429_230008_00000662078_00330_37458_4406.N1	29-APR-2009 23:00:08	Dark	66.000	61	8Eps Peg	2.1000	3900.0	132	37458	No
33	GOM_TRA_1PNPDE20090429_230235_00000522078_00330_37458_4407.N1	29-APR-2009 23:02:35	Dark	51.500	162	34Alp Aqr	2.9440	5350.0	103	37458	No
34	GOM_TRA_1PNPDE20090429_230612_00000622078_00330_37458_4551.N1	29-APR-2009 23:06:12	Dark	61.500	154	22Bet Aqr	2.8990	5700.0	123	37458	No
35	GOM_TRA_1PNPDE20090429_232918_00000592078_00331_37459_4552.N1	29-APR-2009 23:29:18	Straylight	58.500	40	The Sco	1.8590	7100.0	117	37459	No
36	GOM_TRA_1PNPDE20090429_233103_00000562078_00331_37459_4553.N1	29-APR-2009 23:31:03	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	37459	No
37	GOM_TRA_1PNPDE20090429_233414_00000602078_00331_37459_4554.N1	29-APR-2009 23:34:14	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	37459	No
38	GOM_TRA_1PNPDE20090429_233705_00000382078_00331_37459_4555.N1	29-APR-2009 23:37:05	Tw_i_and_stray	38.000	136	23Tau Sco	2.8220	30000.	76	37459	No
39	GOM_TRA_1PNPDE20090429_233838_00000432078_00331_37459_4556.N1	29-APR-2009 23:38:38	Tw_i_and_stray	43.000	156	20Sig Sco	2.9030	28000.	86	37459	No
40	GOM_TRA_1PNPDE20090429_234020_00000602078_00331_37459_4557.N1	29-APR-2009 23:40:20	Tw_i_and_stray	60.000	80	7Del Sco	2.3160	30000.	120	37459	No
41	GOM_TRA_1PNPDE20090429_234332_00000442078_00331_37459_4558.N1	29-APR-2009 23:43:32	Bright	44.000	122	9Alp2Lib	2.7470	9700.0	88	37459	No
42	GOM_TRA_1PNPDE20090429_234553_00000492078_00331_37459_4559.N1	29-APR-2009 23:45:53	Bright	49.000	104	27Bet Lib	2.6140	13100.	98	37459	No
43	GOM_TRA_1PNPDE20090429_235452_00000602078_00331_37459_4560.N1	29-APR-2009 23:54:52	Bright	60.000	3	16Alp Boo	-0.050000	4250.0	120	37459	No
44	GOM_TRA_1PNPDE20090429_235806_00000442078_00331_37459_4561.N1	29-APR-2009 23:58:06	Bright	43.500	83		2.3780	11000.	87	37459	No

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



4. Overview of dark signal processing per product

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

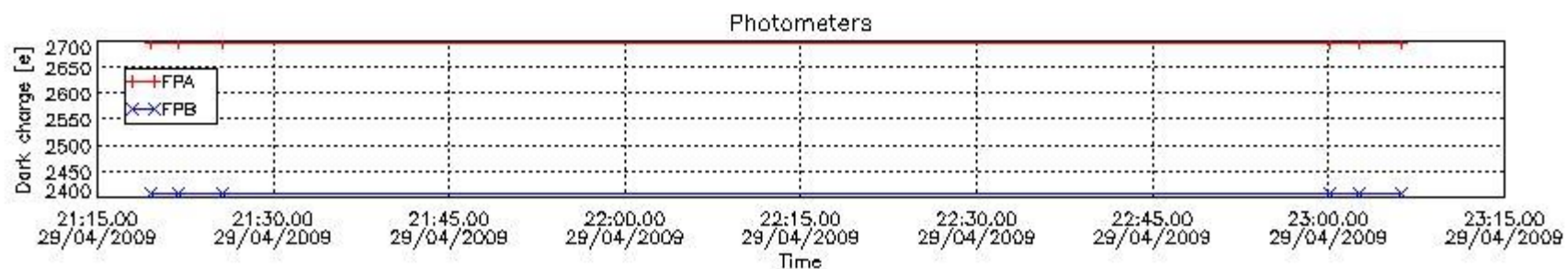
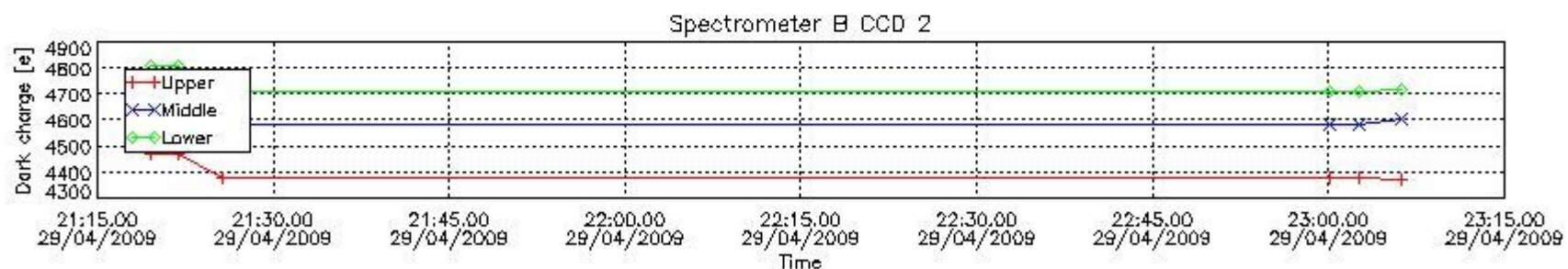
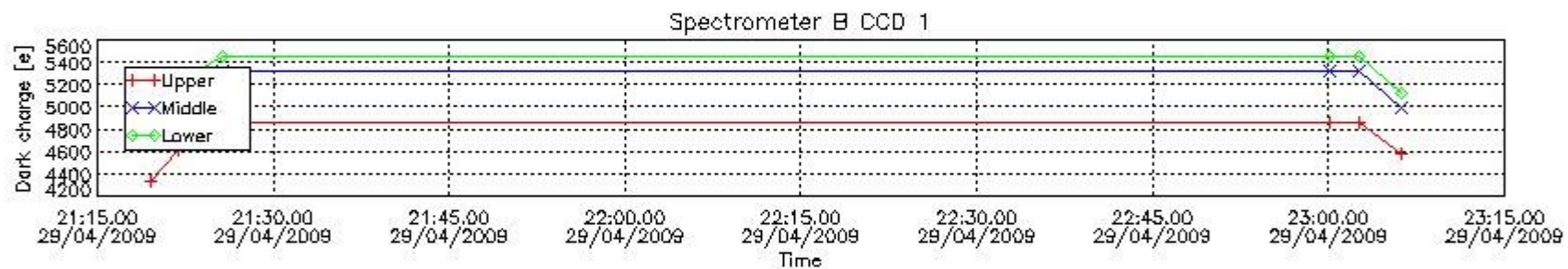
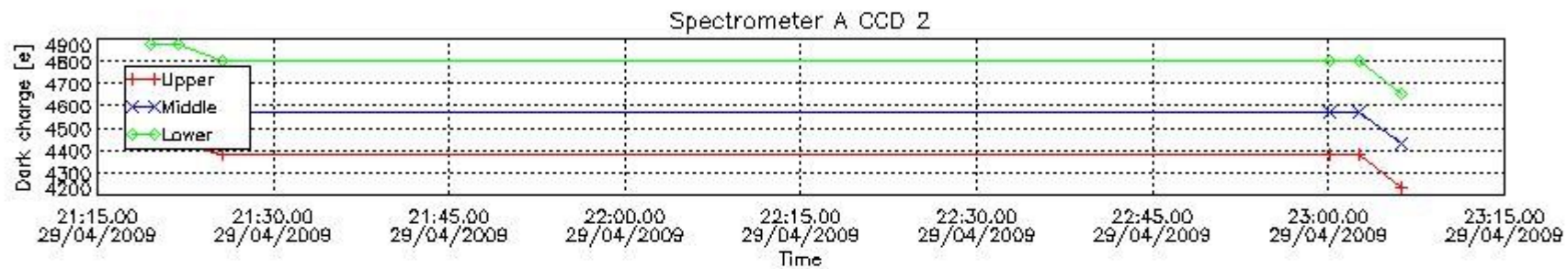
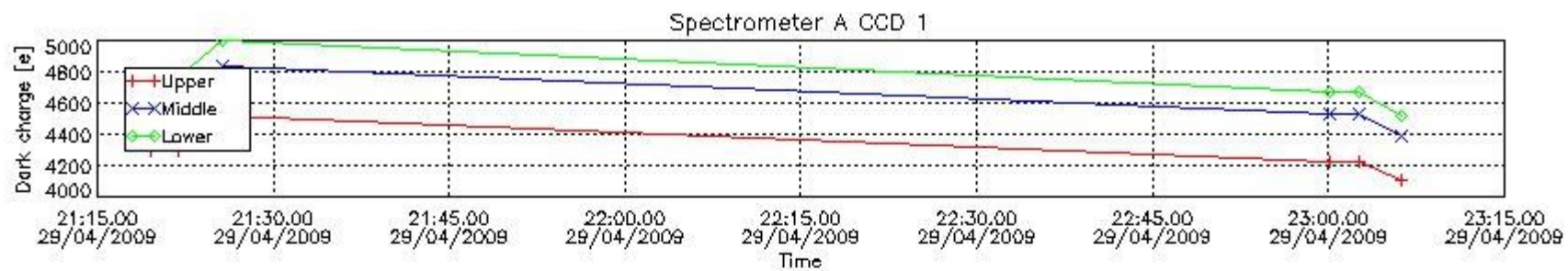
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090429_200805_000000592078_00329_37457_4233.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090429_200949_000000632078_00329_37457_4234.N1	DC map used
GOM_TRA_1PNPDE20090429_201300_000000612078_00329_37457_4235.N1	DC map used
GOM_TRA_1PNPDE20090429_201552_000000352078_00329_37457_4236.N1	DC map used
GOM_TRA_1PNPDE20090429_201725_000000392078_00329_37457_4237.N1	DC map used
GOM_TRA_1PNPDE20090429_201907_000000632078_00329_37457_4238.N1	DC map used
GOM_TRA_1PNPDE20090429_202220_000000452078_00329_37457_4239.N1	DC map used
GOM_TRA_1PNPDE20090429_202441_000000502078_00329_37457_4240.N1	DC map used
GOM_TRA_1PNPDE20090429_203341_000000602078_00329_37457_4241.N1	DC map used
GOM_TRA_1PNPDE20090429_203656_000000442078_00329_37457_4242.N1	DC map used
GOM_TRA_1PNPDE20090429_203955_000000412078_00329_37457_4243.N1	DC map used
GOM_TRA_1PNPDE20090429_204932_000000442078_00329_37457_4244.N1	DC map used
GOM_TRA_1PNPDE20090429_205945_000000422078_00329_37457_4245.N1	DC map used
GOM_TRA_1PNPDE20090429_211058_000000432078_00329_37457_4246.N1	DC map used

GOM_TRA_1PNPDE20090429_211932_000000652078_00329_37457_4247.N1	DC map used
GOM_TRA_1PNPDE20090429_212158_000000562078_00329_37457_4248.N1	DC map used

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



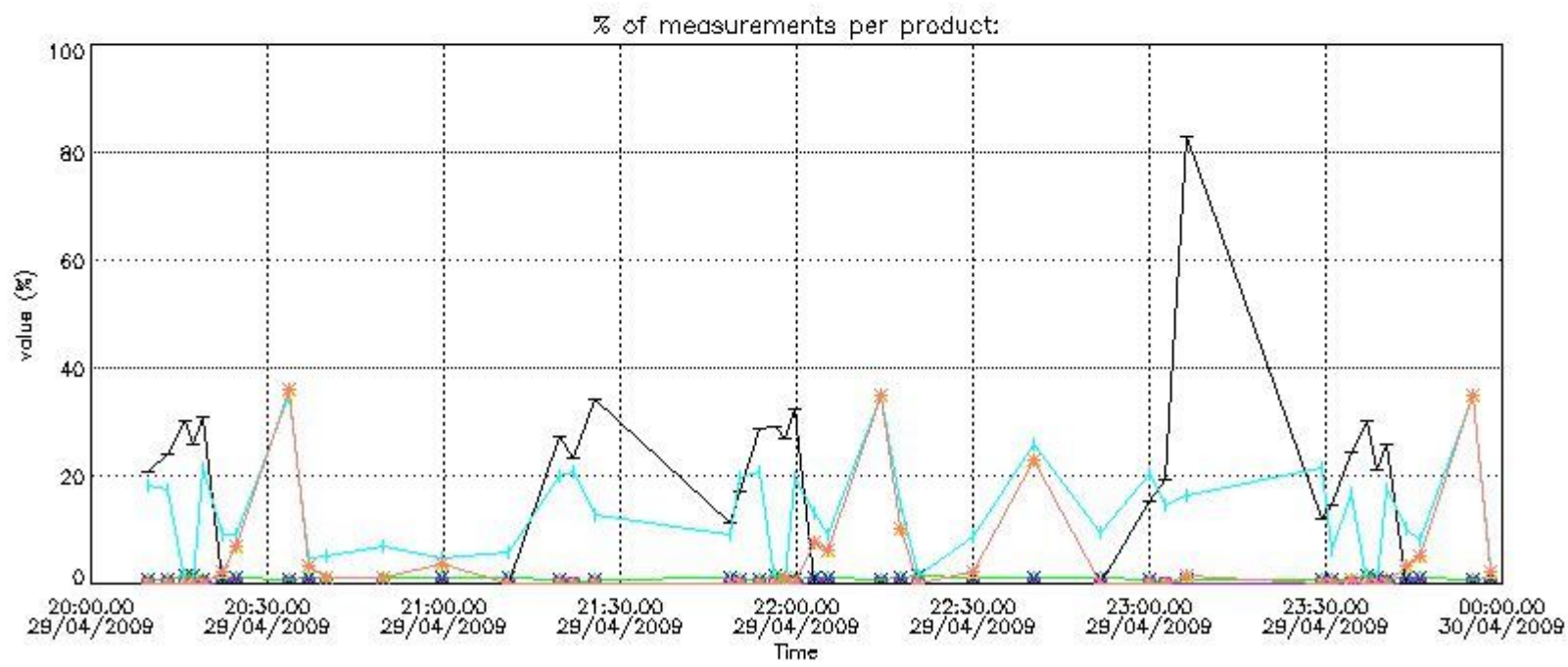
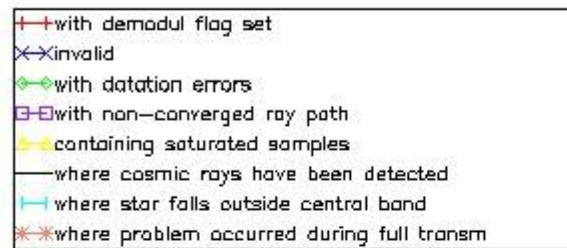
5. Demodulation flag and quality information monitoring

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

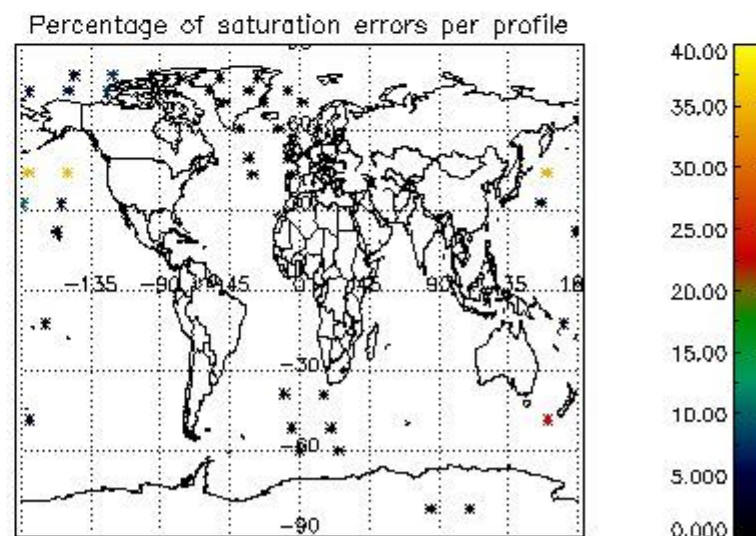
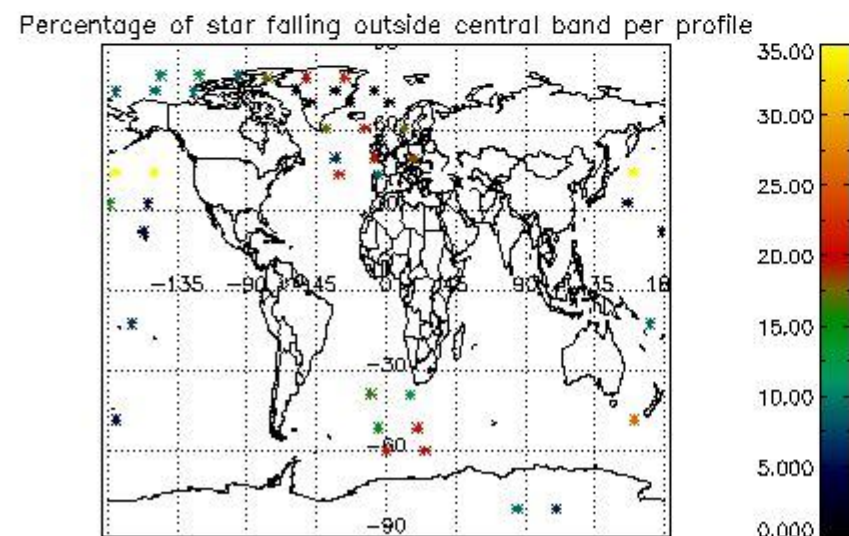
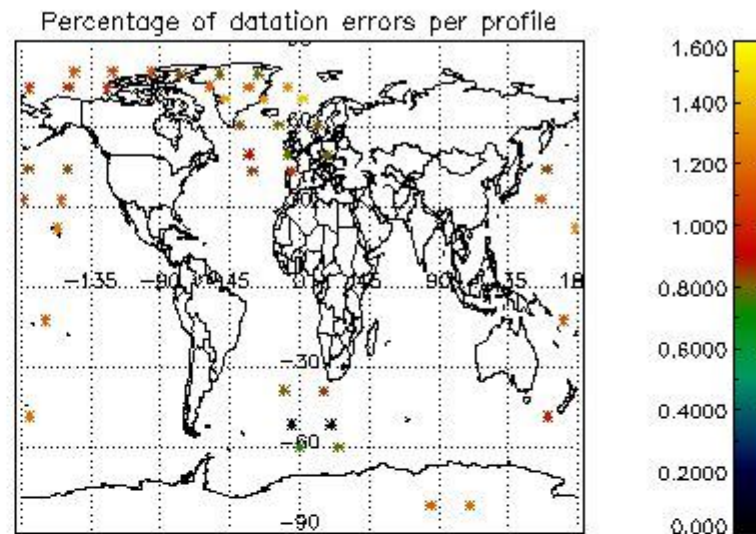
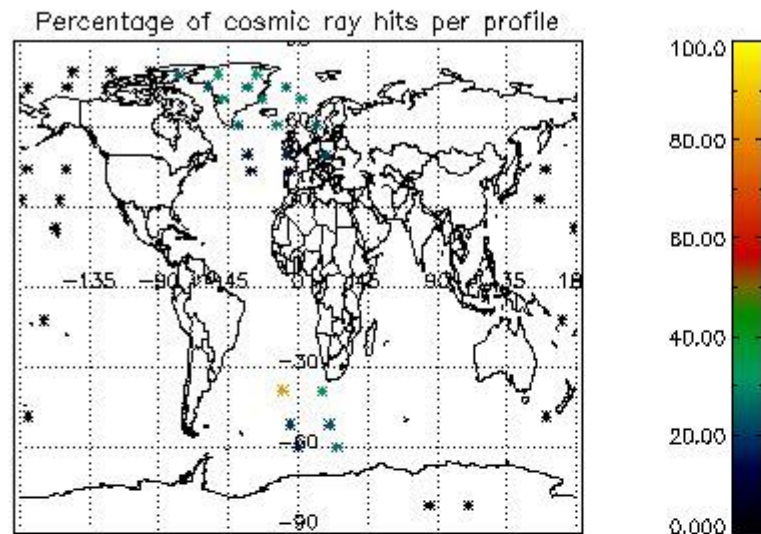
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.2093 %
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)



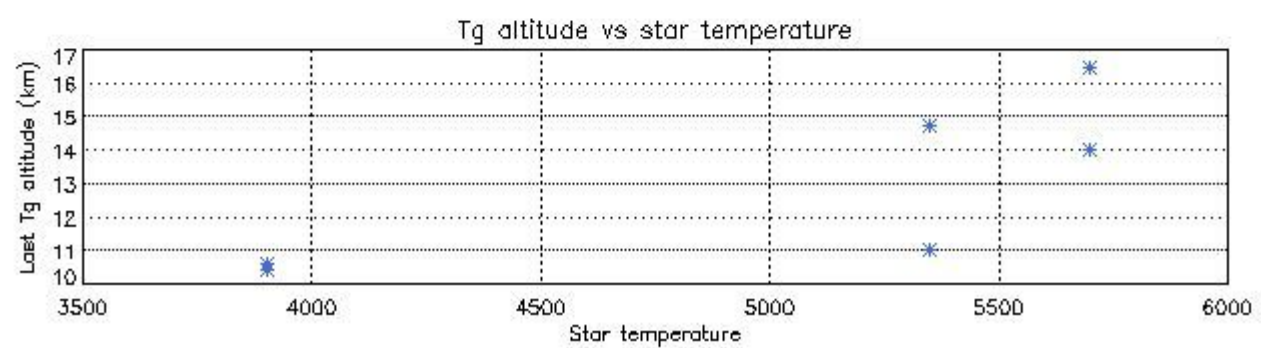
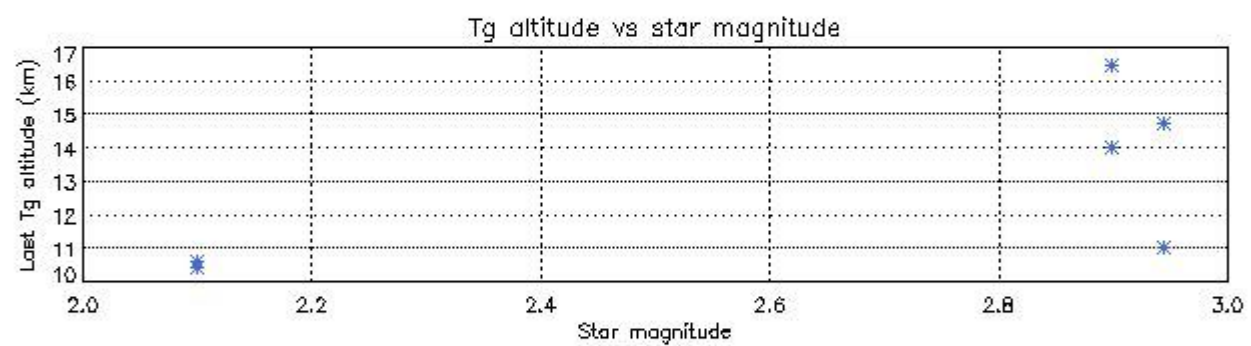
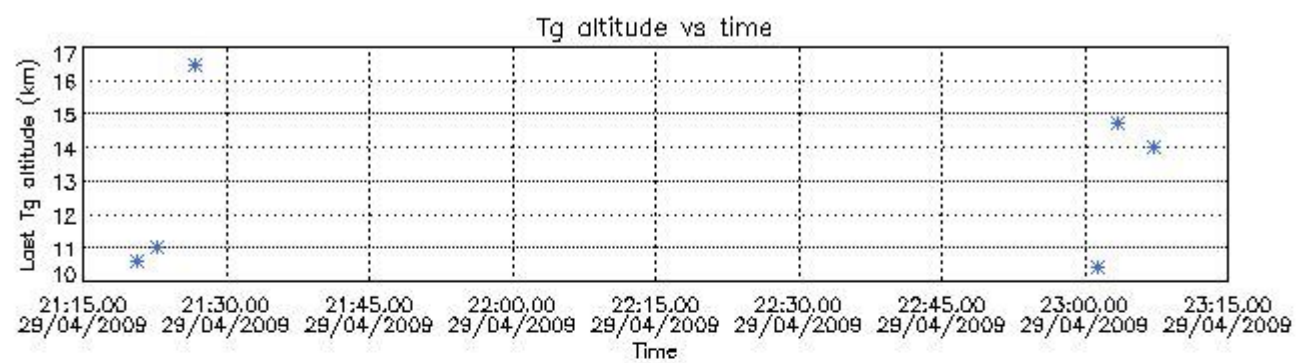
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.887	17.097	NaN
St. deviation:	2.5381	6.6151	NaN
Maximum:	16.461	26.363	NaN
Minimum:	10.411	3.9816	NaN
Number of data:	6.0000	20.000	NaN

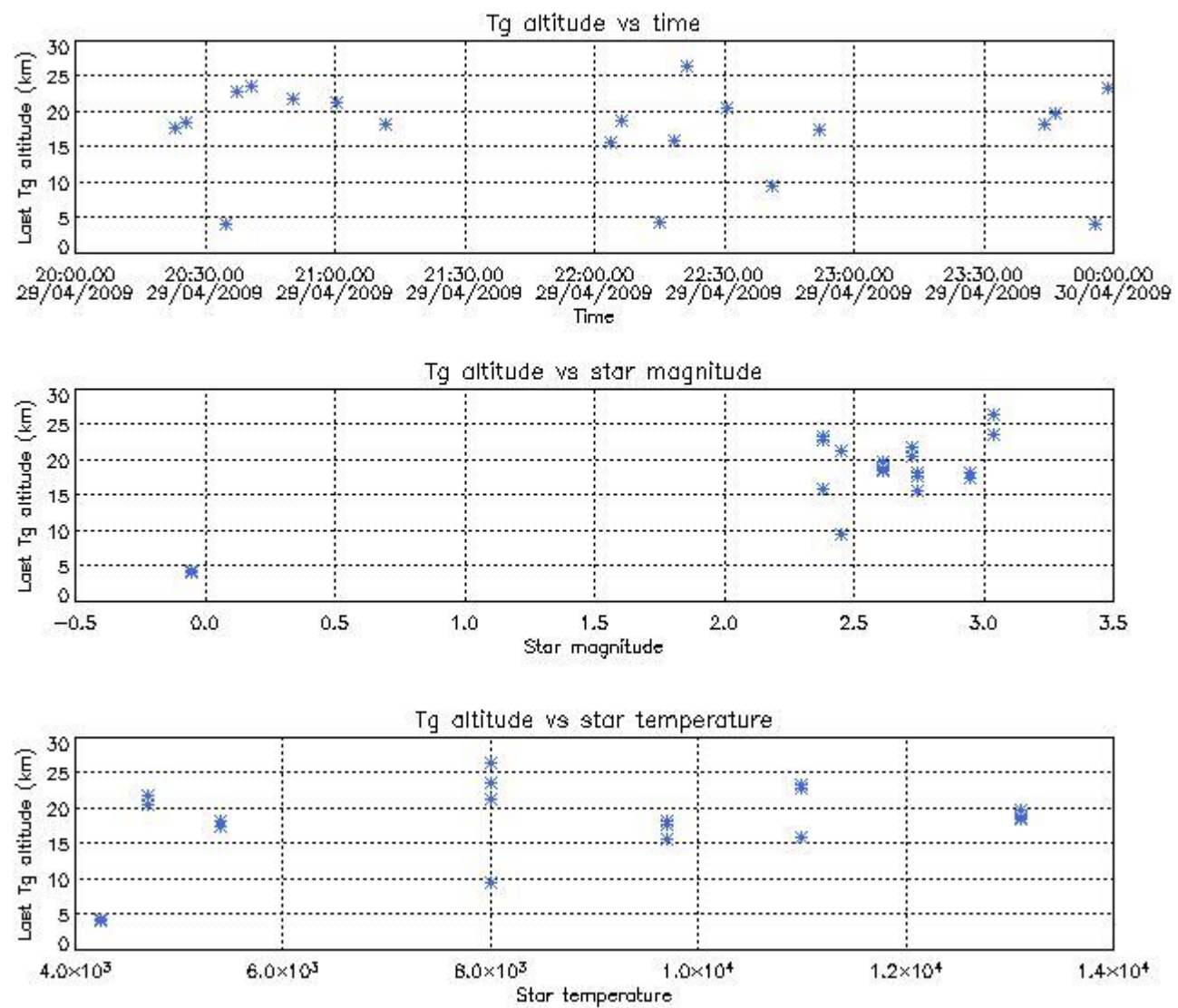
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

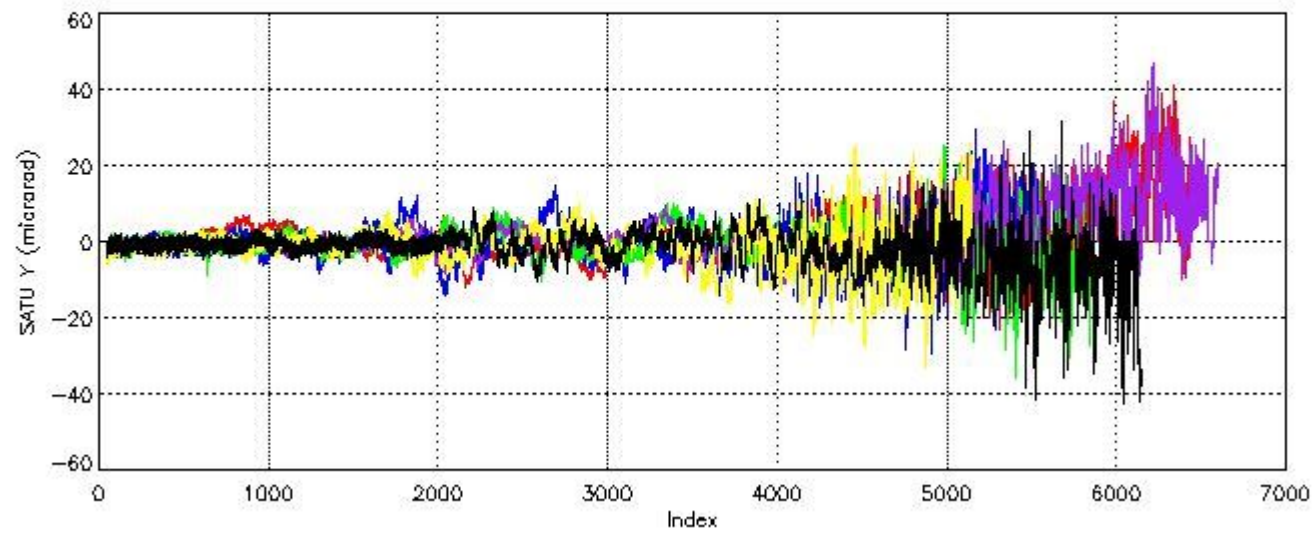
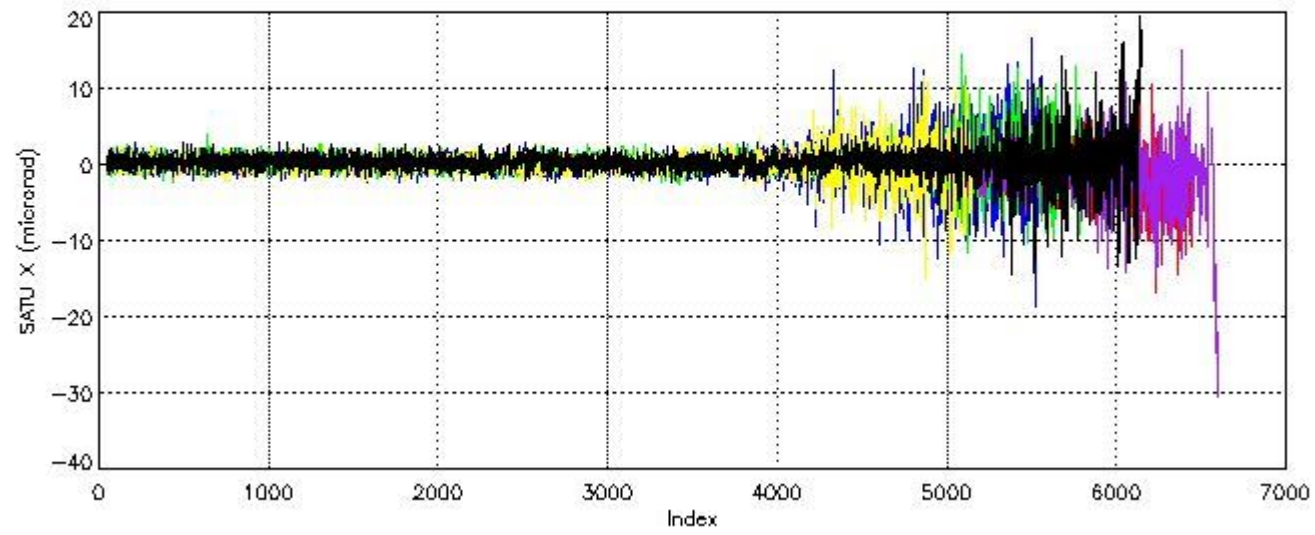


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.25922	-0.45194	0.37479	-1.2727
St. deviation:	0.60372	1.5476	0.87579	1.8170
Maximum:	4.0000	6.8000	5.8000	8.1000
Minimum:	-2.4000	-9.0000	-5.0000	-8.8000

Number of data:	7500.0	7500.0	20050.	20050.
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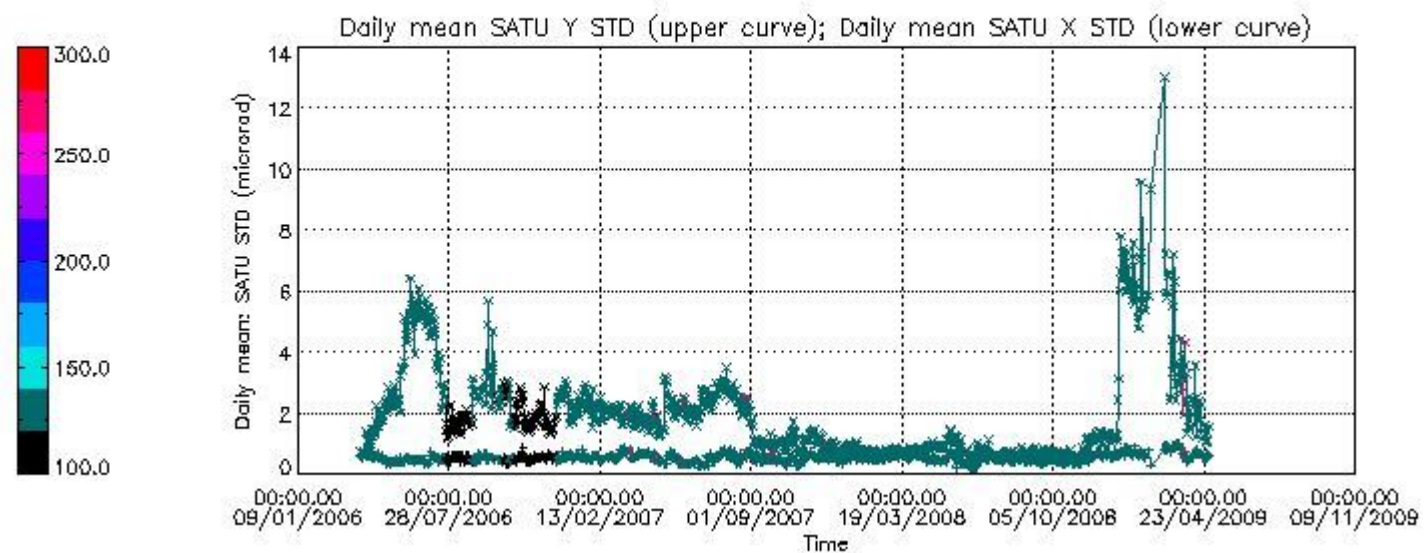
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

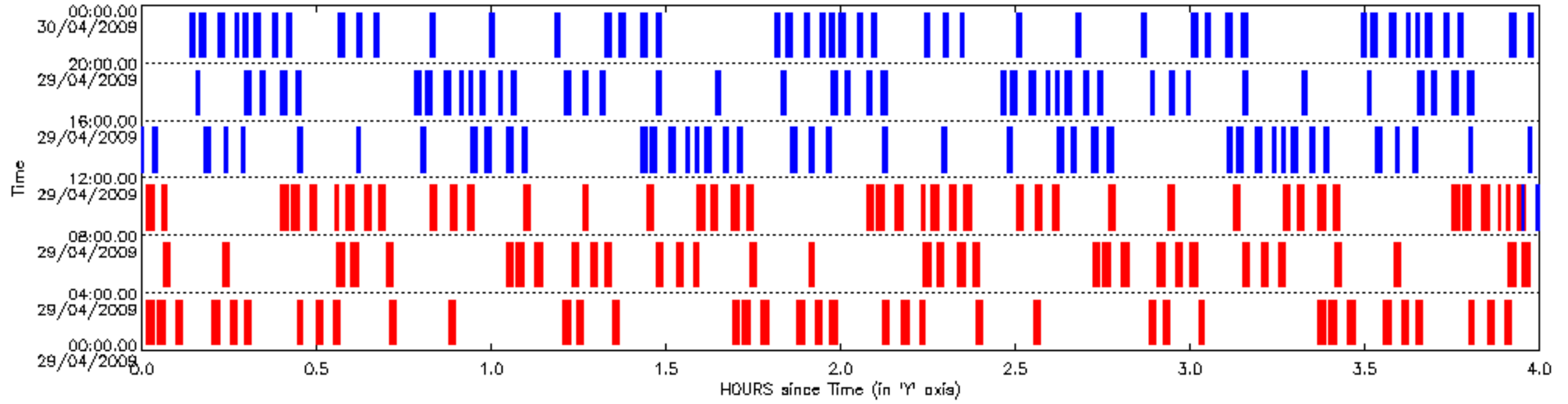
Lower curve: STD of SATU X axis

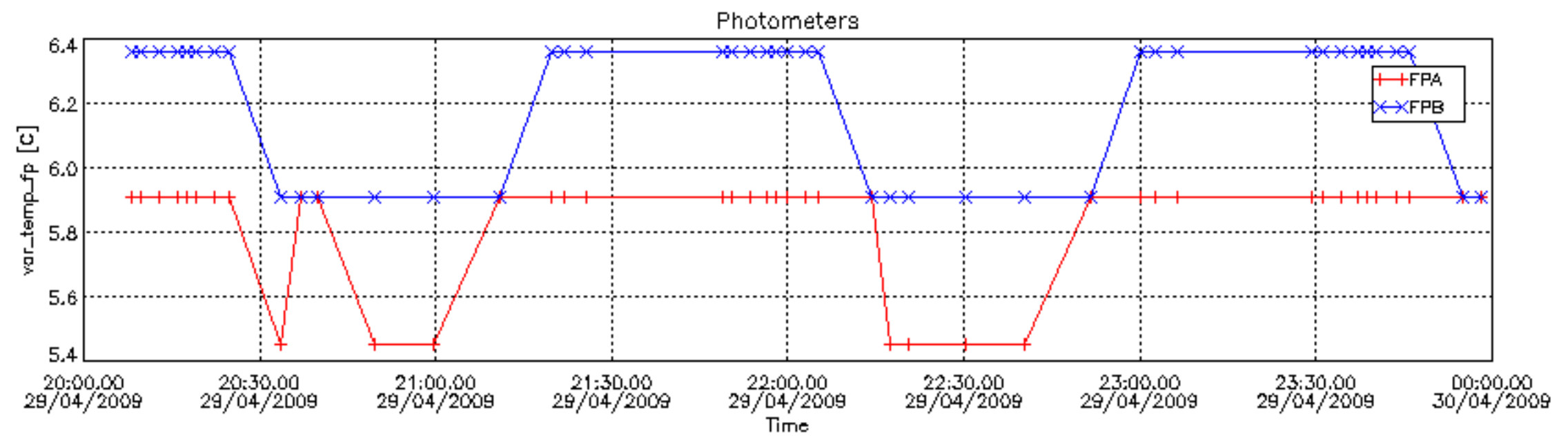
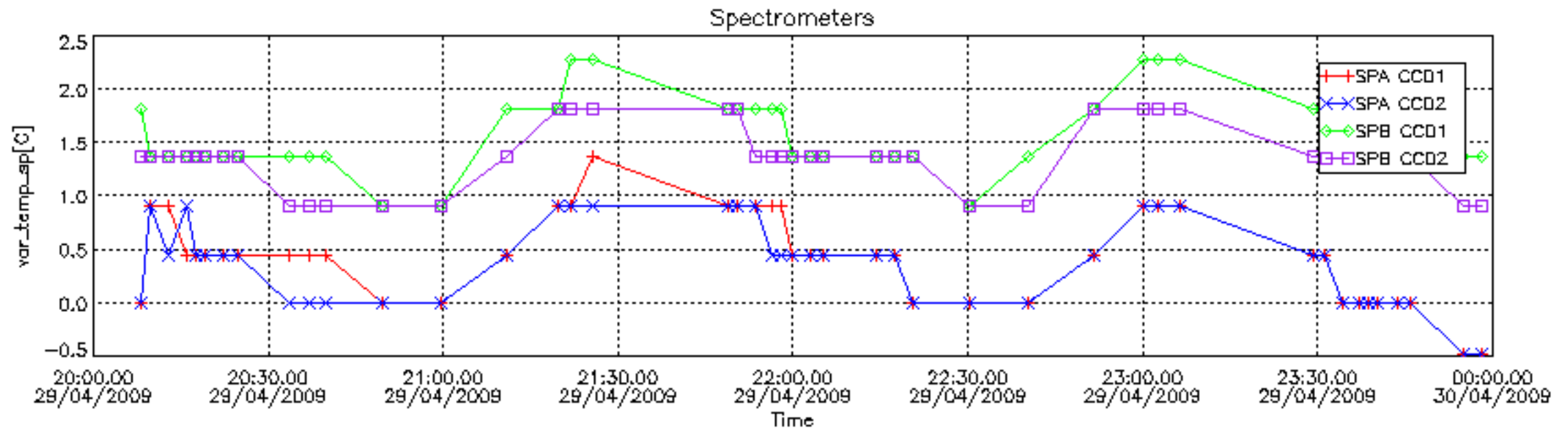


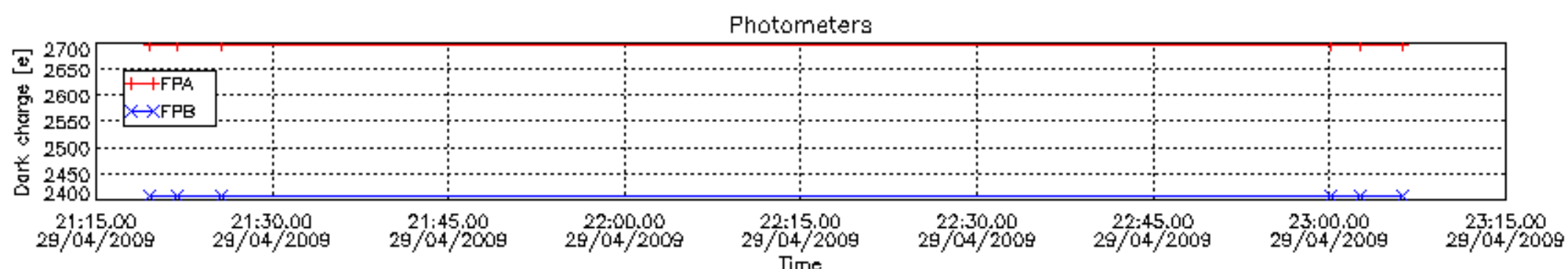
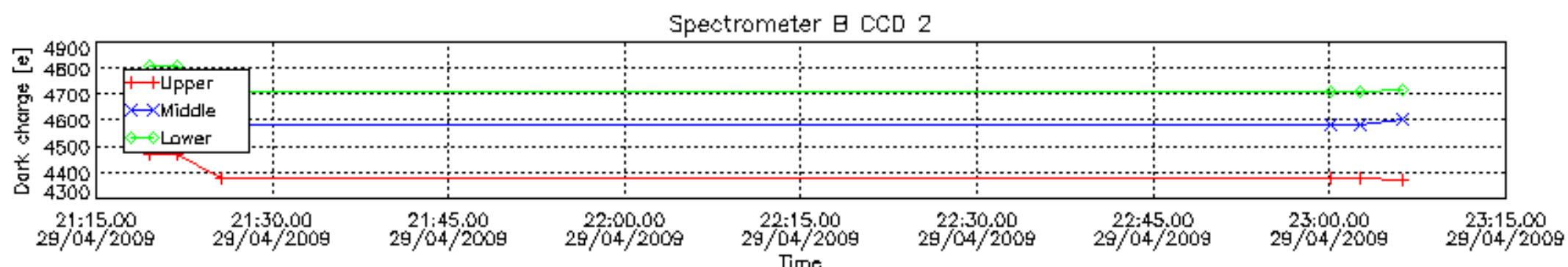
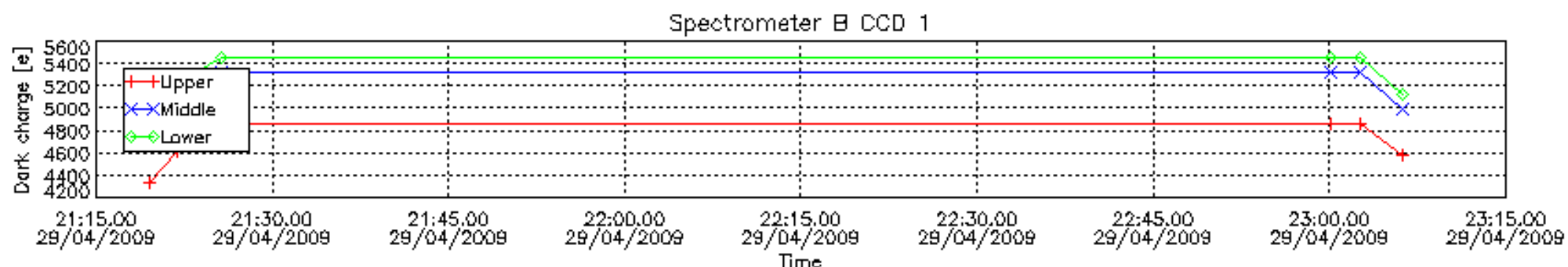
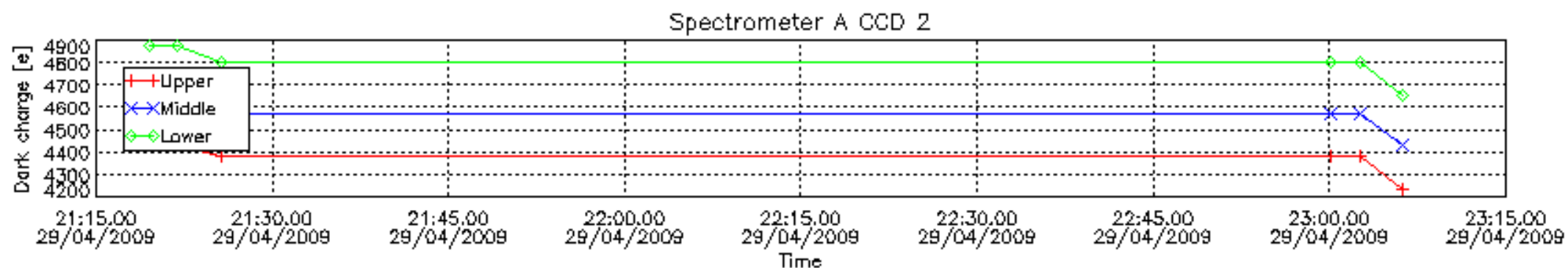
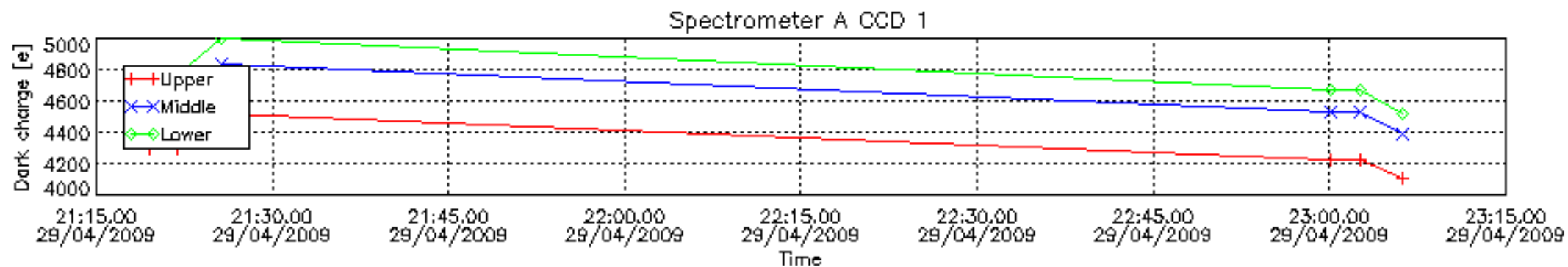
8. Auxiliary Data Files used for the production reported in section 2.4

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.

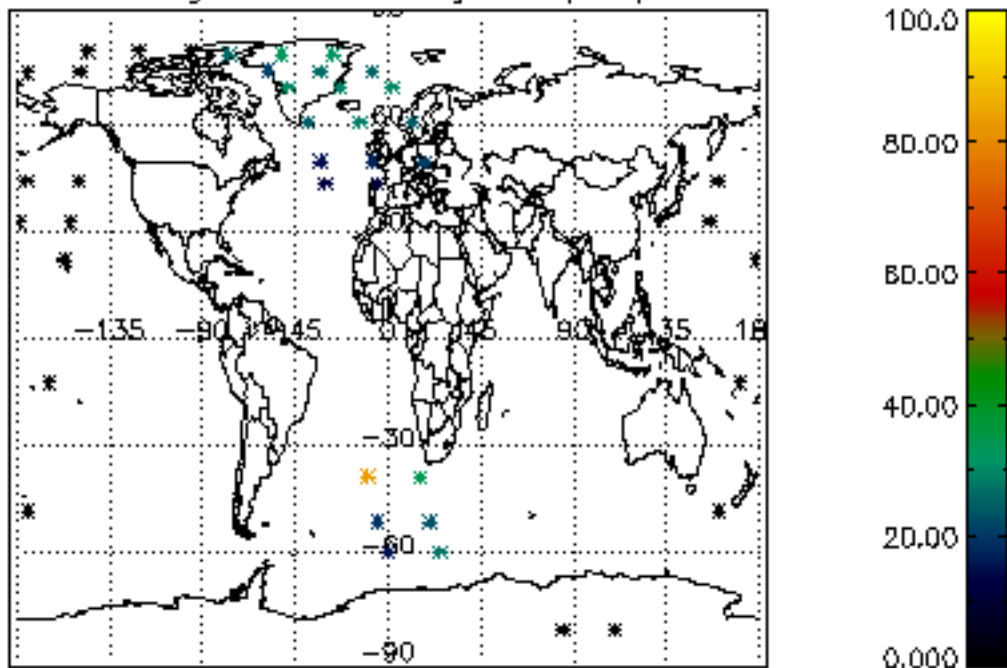
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-APR-2009 20:08:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	29-APR-2009 20:08:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-APR-2009 20:08:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-APR-2009 20:08:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-APR-2009 20:08:05
ECMWF_FILE	AUX_ECF_AXNECM20090429_064111_20090429_150000_20090430_030000	1	29-APR-2009 20:08:05
ECMWF_FILE	AUX_ECF_AXNECM20090429_064112_20090429_210000_20090430_090000	17	29-APR-2009 21:25:35
OPTIONAL_ECMWF_FILE	MISSING	1	29-APR-2009 20:08:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090429_200400_000044632078_00329_37457_7844.N1	1	29-APR-2009 20:08:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090429_211823_000060572078_00329_37457_7845.N1	34	29-APR-2009 23:06:12



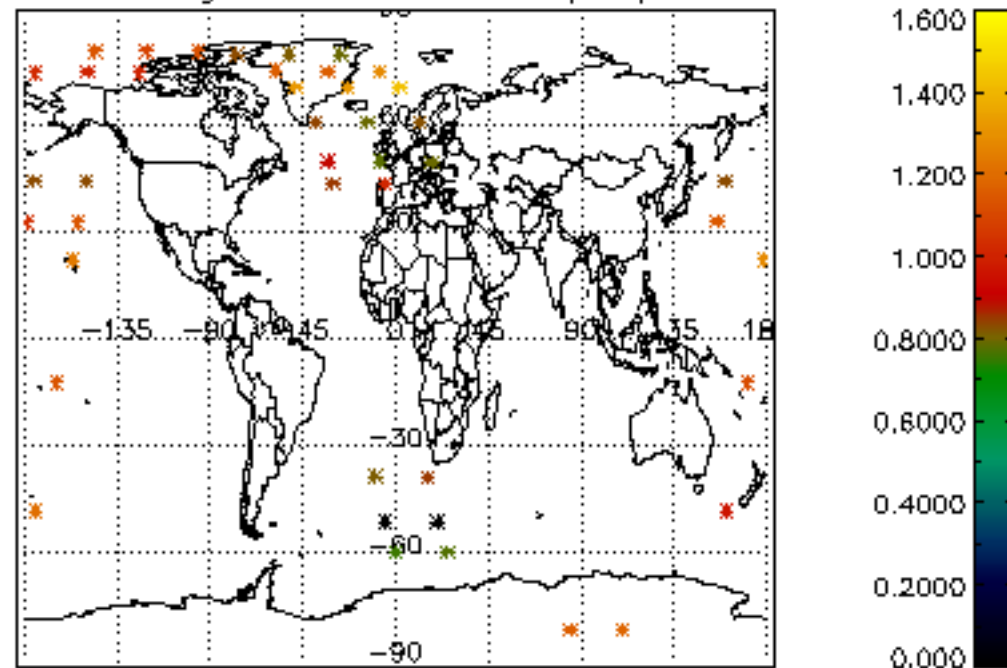




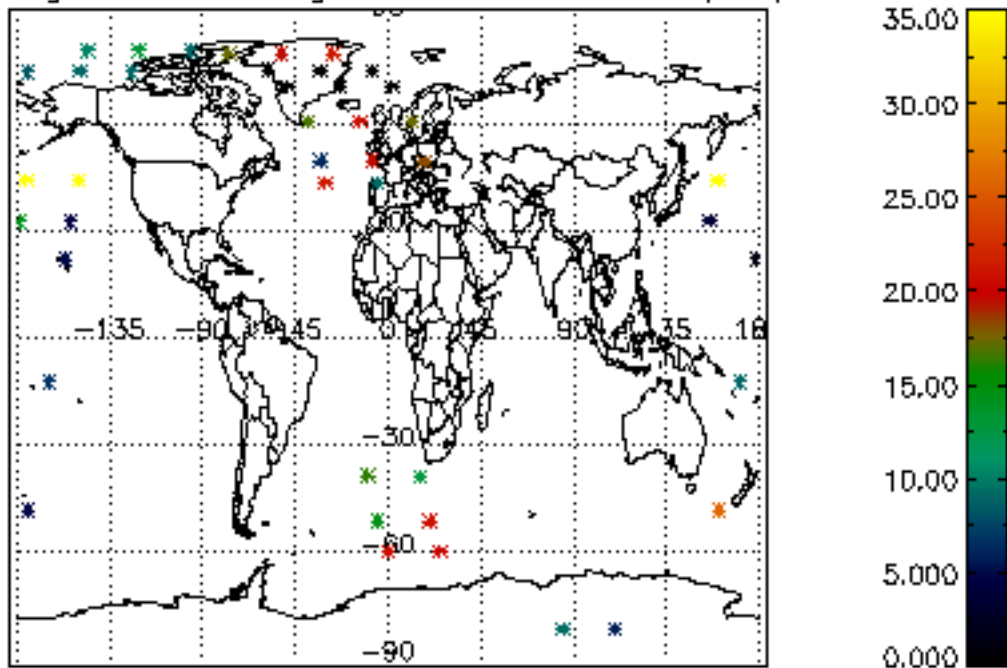
Percentage of cosmic ray hits per profile



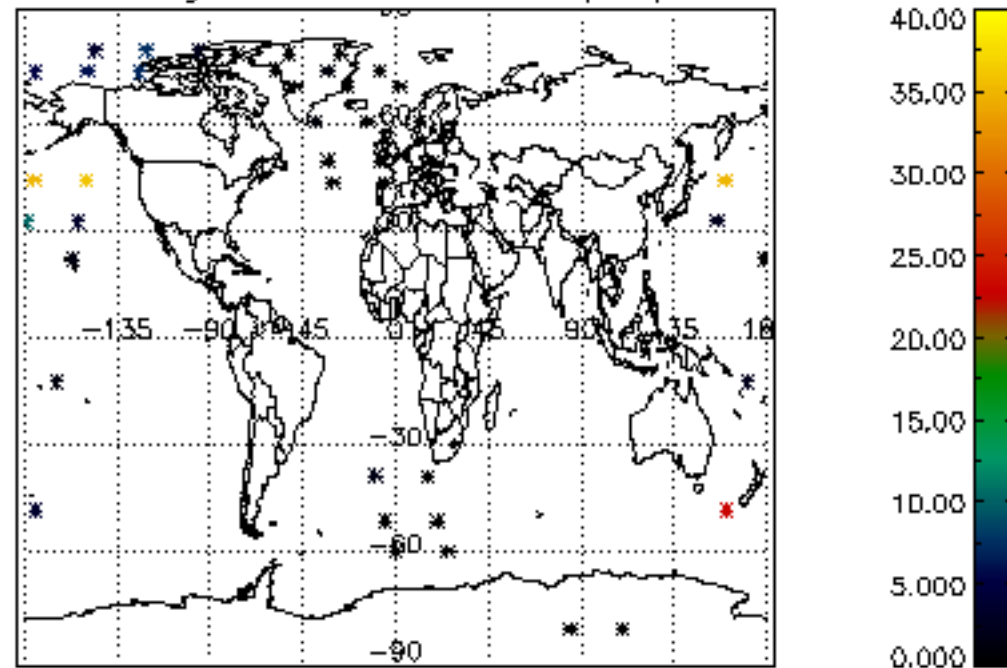
Percentage of datation errors per profile



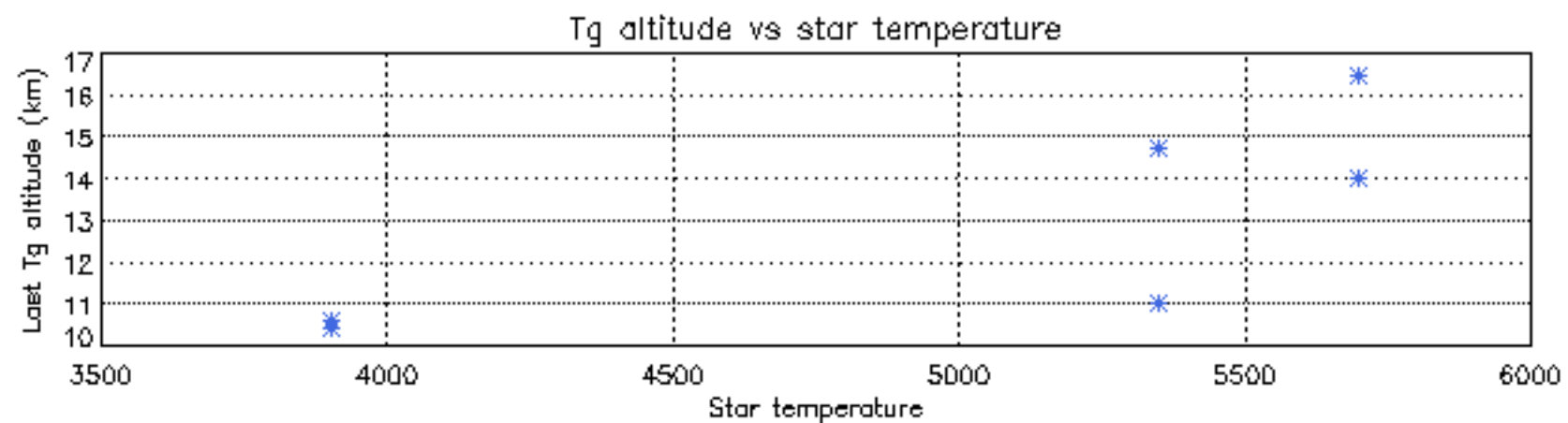
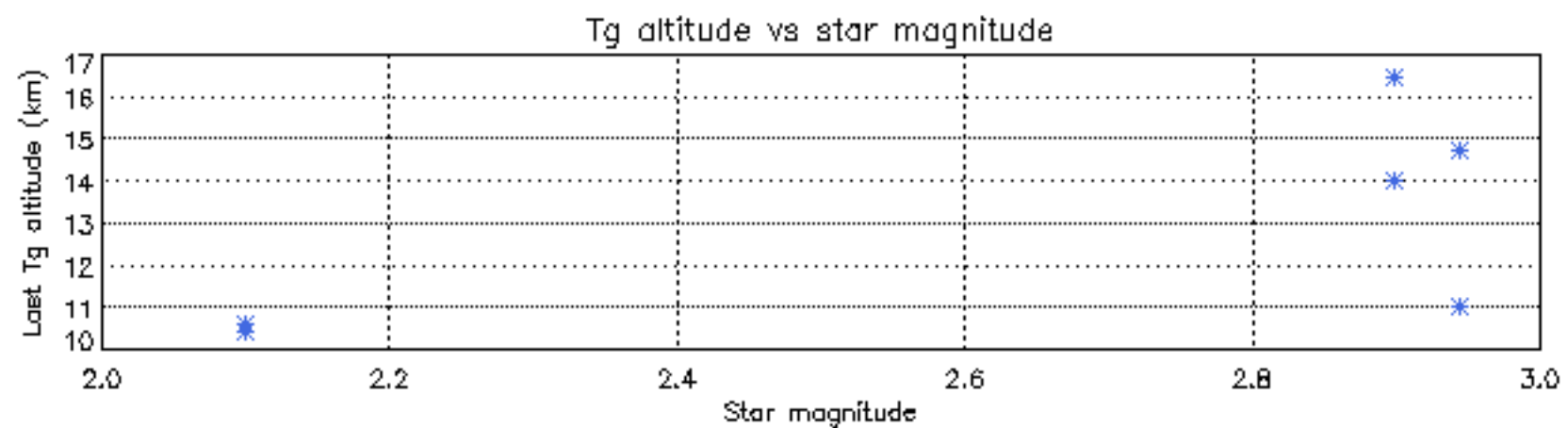
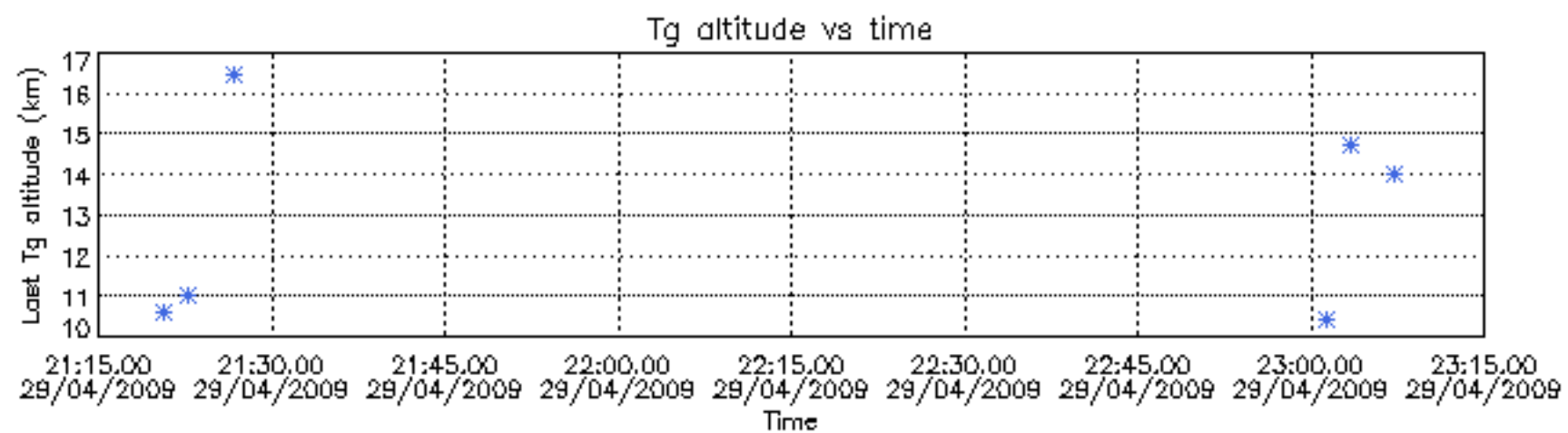
Percentage of star falling outside central band per profile



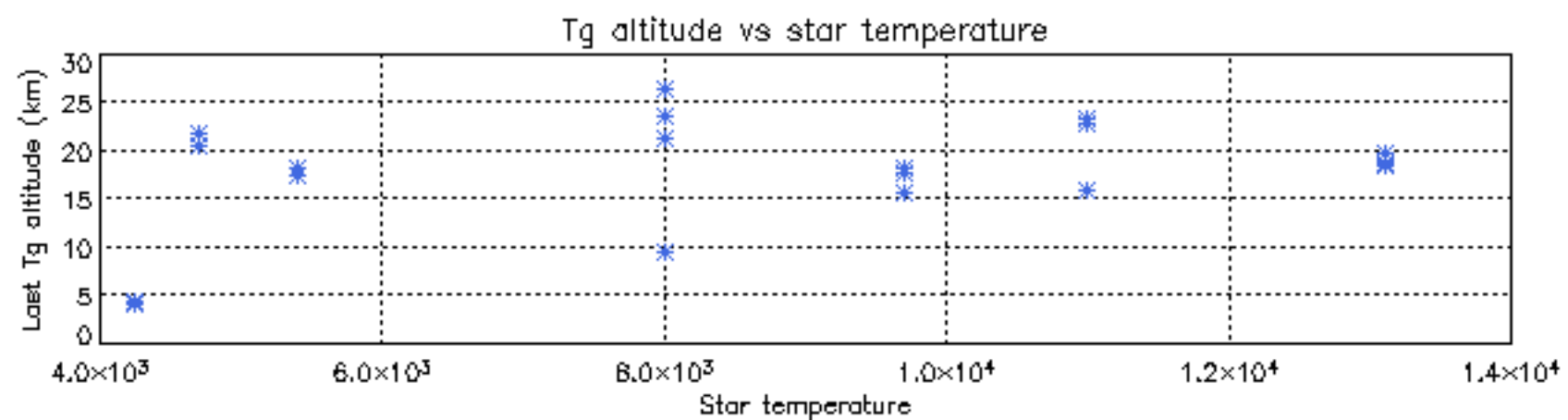
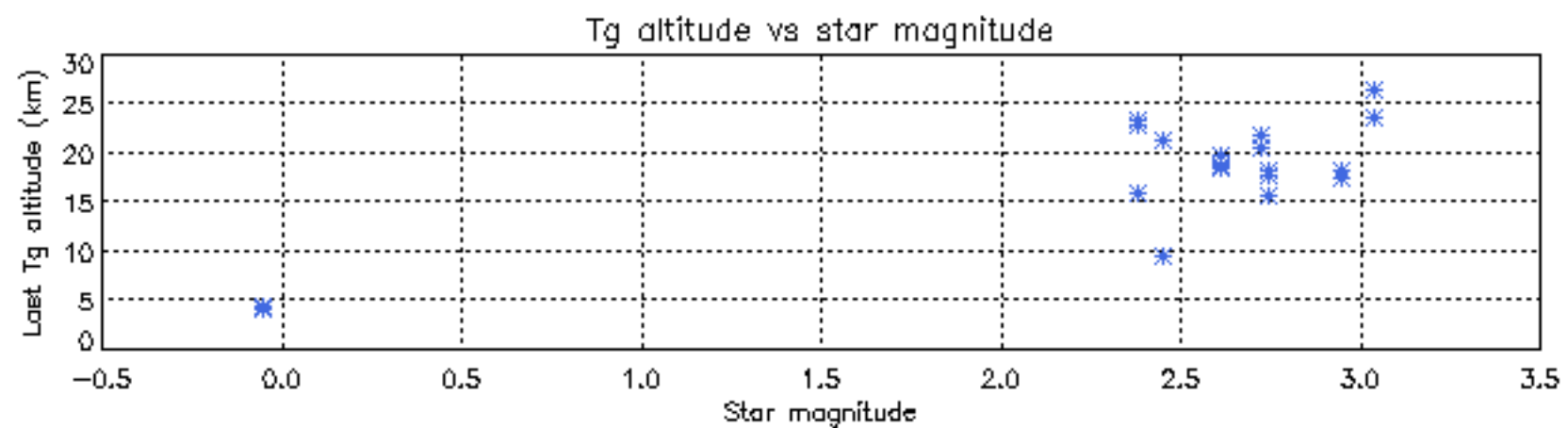
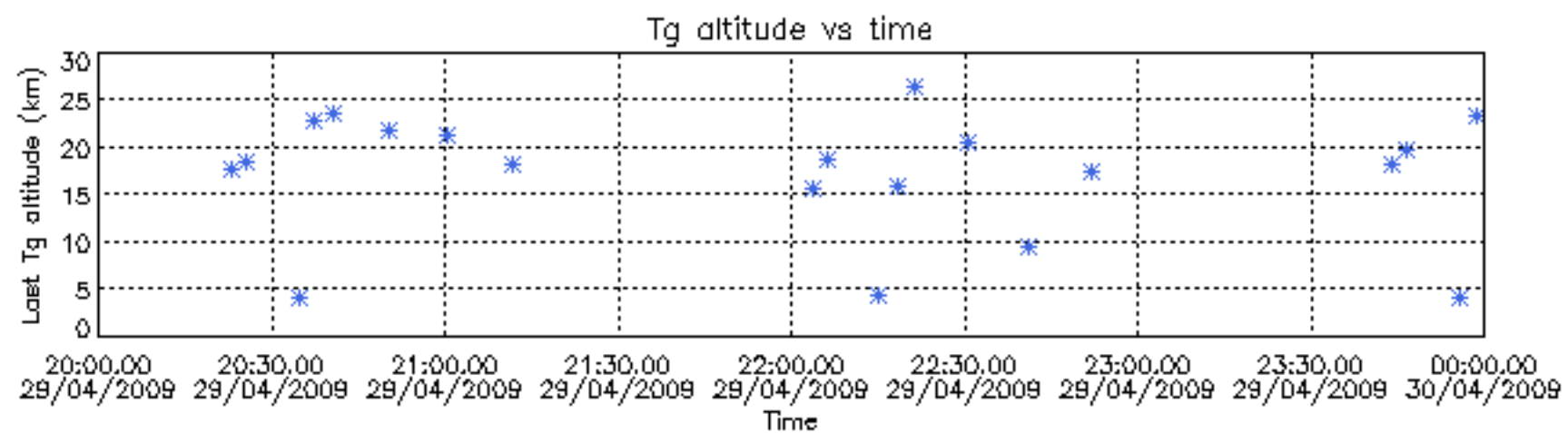
Percentage of saturation errors per profile

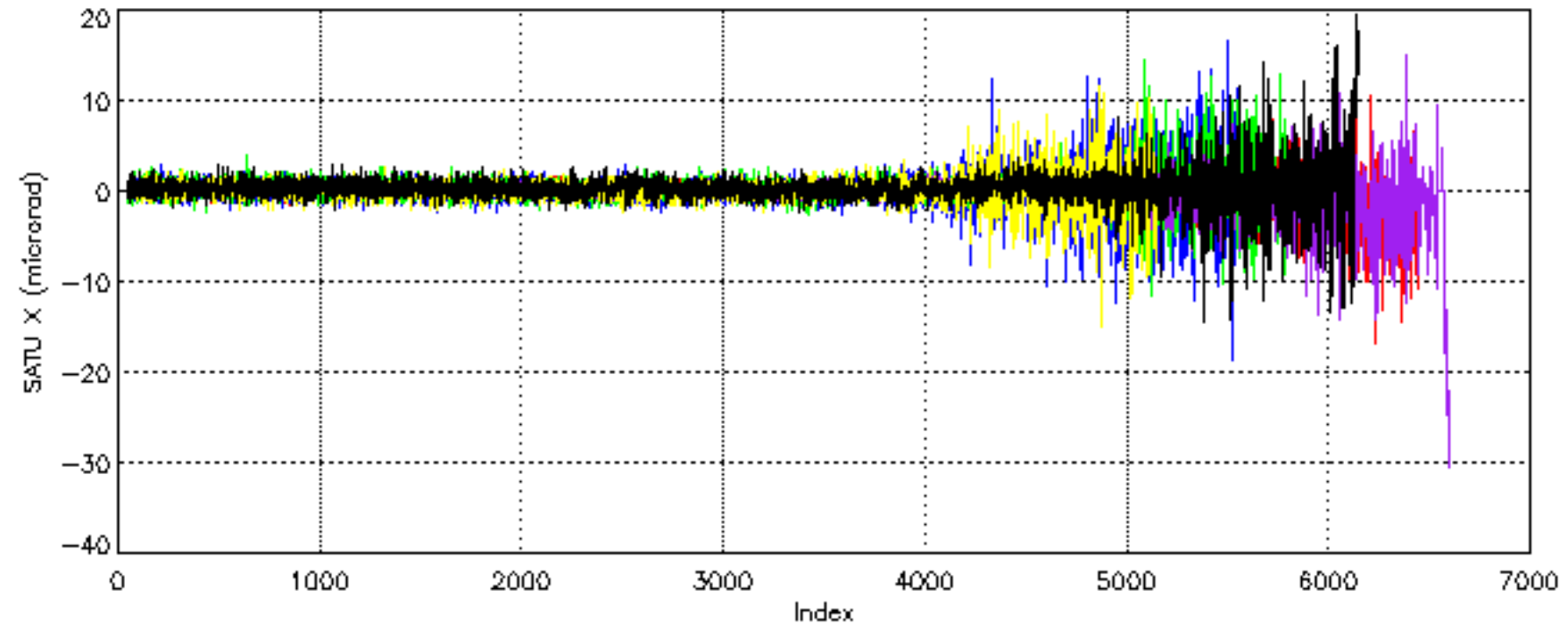


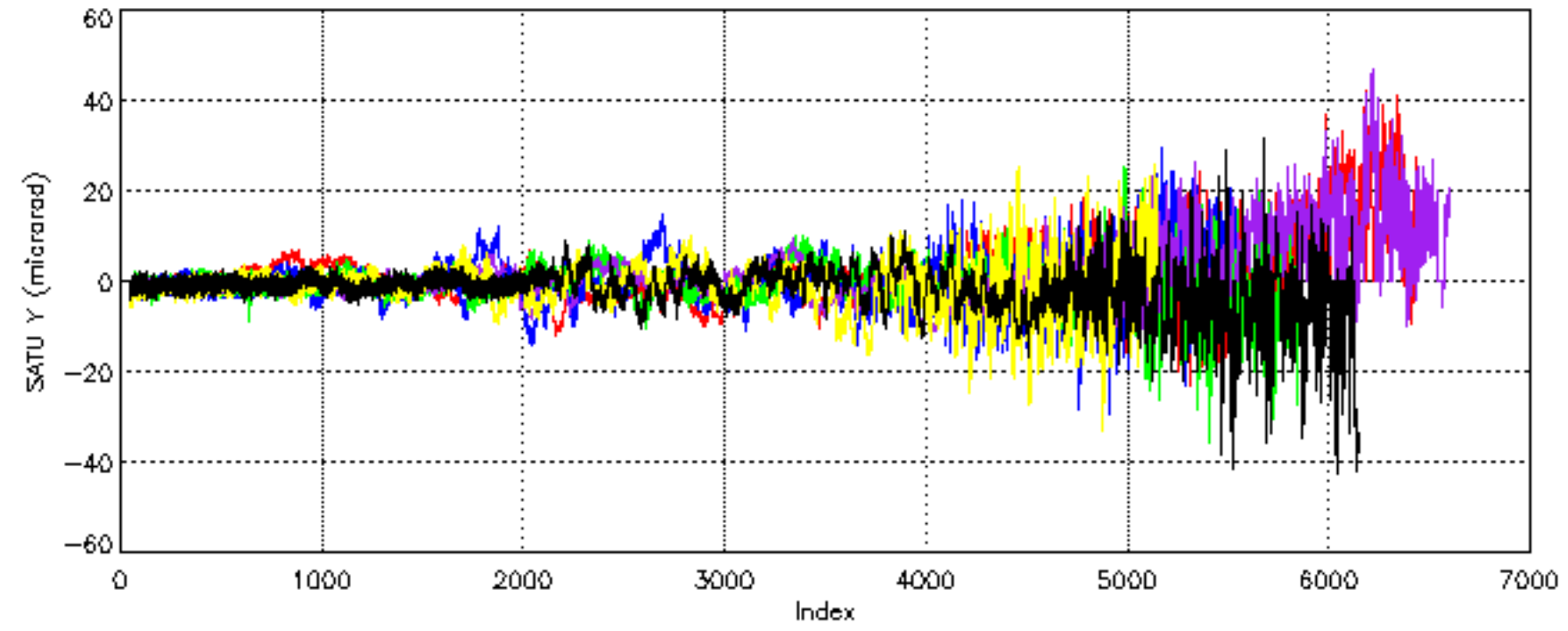
Tangent altitude at which the star is lost

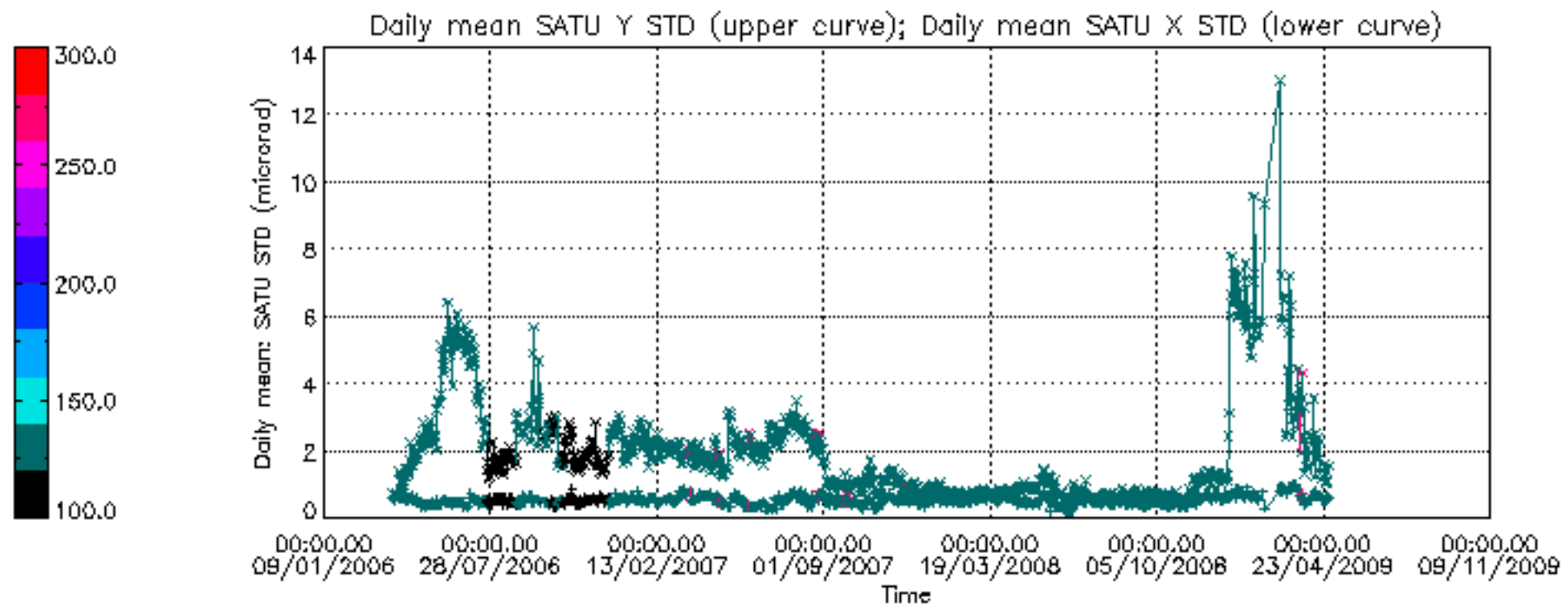


Tangent altitude at which the star is lost









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1; 1432.9; 01-APR-2009 19:59:36; Dark ; 51.5; 169; 46Gam Hya ; 2.99; 4700;occ; 103; 0;37056
2; 1688.1; 01-APR-2009 20:03:51; Dark ; 67.0; 15; 67Alp Vir ; 0.98; 28000;occ; 134; 0;37056
3; 1882.0; 01-APR-2009 20:07:05; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37056
4; 2156.2; 01-APR-2009 20:11:39; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37056
5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056
6; 2954.1; 01-APR-2009 20:24:57; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;37056
7; 3501.5; 01-APR-2009 20:34:04; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37056
8; 4197.6; 01-APR-2009 20:45:40; Bright; 44.0; 144; 18Del Cyg ; 2.86; 11000;occ; 88; 0;37056
9; 4313.1; 01-APR-2009 20:47:36; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37056
10; 4435.9; 01-APR-2009 20:49:39; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37056
11; 5051.5; 01-APR-2009 20:59:54; Dark ; 23.0; 11; 53Alp Aql ; 0.76; 8000;occ; 46; 0;37056

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1; -984.4; 01-APR-2009 20:59:54; Dark ; 72.0; 11; 53Alp Aql ; 0.76; 8000;occ; 144; 0;37056
2; -745.7; 01-APR-2009 21:03:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37056
3; -259.8; 01-APR-2009 21:11:59; Dark ; 57.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 114; 0;37056
4; -127.9; 01-APR-2009 21:14:11; Dark ; 57.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 114; 0;37056
5; 81.9; 01-APR-2009 21:17:40; Dark ; 70.0; 116; 19Del Sgr ; 2.70; 4100;occ; 140; 0;37057
6; 339.0; 01-APR-2009 21:21:58; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;37057
7; 798.8; 01-APR-2009 21:29:37; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;37057
8; 944.6; 01-APR-2009 21:32:03; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;37057
9; 1107.1; 01-APR-2009 21:34:46; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37057
10; 1433.1; 01-APR-2009 21:40:12; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37057
11; 1688.1; 01-APR-2009 21:44:27; Dark ; 66.0; 15; 67Alp Vir ; 0.98; 28000;occ; 132; 0;37057
12; 1881.8; 01-APR-2009 21:47:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37057
13; 2155.9; 01-APR-2009 21:52:14; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37057
14; 2670.9; 01-APR-2009 22:00:49; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37057
15; 2953.6; 01-APR-2009 22:05:32; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37057
16; 3500.7; 01-APR-2009 22:14:39; Bright; 62.5; 119; 14Eta Dra ; 2.73; 4700;occ; 125; 0;37057
17; 4197.4; 01-APR-2009 22:26:16; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;37057
18; 4312.9; 01-APR-2009 22:28:11; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;37057
19; 4435.9; 01-APR-2009 22:30:14; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37057
20; 5052.5; 01-APR-2009 22:40:31; Dark ; 70.5; 11; 53Alp Aql ; 0.76; 8000;occ; 141; 0;37057
21; 5291.1; 01-APR-2009 22:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37057

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1; -725.3; 01-APR-2009 22:44:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 39;37057
2; -126.4; 01-APR-2009 22:54:48; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;37057
3; 83.4; 01-APR-2009 22:58:18; Dark ; 61.5; 116; 19Del Sgr ; 2.70; 4100;occ; 123; 0;37058
4; 340.5; 01-APR-2009 23:02:35; Dark ; 58.5; 25; 35Lam Sco ; 1.62; 28000;occ; 117; 0;37058
5; 799.7; 01-APR-2009 23:10:14; Dark ; 52.0; 131; Gam Lup ; 2.80; 26000;occ; 104; 0;37058
6; 945.1; 01-APR-2009 23:12:40; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;37058
7; 1107.5; 01-APR-2009 23:15:22; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37058
8; 1433.4; 01-APR-2009 23:20:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;37058
9; 1688.2; 01-APR-2009 23:25:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37058
10; 1881.6; 01-APR-2009 23:28:16; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;37058
11; 2155.3; 01-APR-2009 23:32:50; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37058
12; 2670.5; 01-APR-2009 23:41:25; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37058
13; 2953.3; 01-APR-2009 23:46:08; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37058
14; 3500.1; 01-APR-2009 23:55:14; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37058
15; 4197.4; 02-APR-2009 00:06:52; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;37058
16; 4312.8; 02-APR-2009 00:08:47; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37058
17; 4436.1; 02-APR-2009 00:10:50; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37058
18; 5053.0; 02-APR-2009 00:21:07; Dark ; 68.0; 11; 53Alp Aql ; 0.76; 8000;occ; 136; 0;37058
19; 5292.0; 02-APR-2009 00:25:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37058

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1; -1600.1; 01-APR-2009 14:07:15; Bright; 6.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 13; 0;37052

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1; 1688.5; 01-APR-2009 15:02:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37053
2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053
3; 7141.4; 01-APR-2009 16:32:56; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37053

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1; 1432.5; 01-APR-2009 16:38:23; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37054
2; 2954.7; 01-APR-2009 17:03:45; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37054
3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054
4; 4435.5; 01-APR-2009 17:28:26; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;37054

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