

GOMOS Daily Report 03-FEB-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	06FEB2009 05:32:02
Data source version	GOMOS/5.00
Start time of products	03FEB2009 00:00:48
Stop time of products	03FEB2009 03:14:21
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

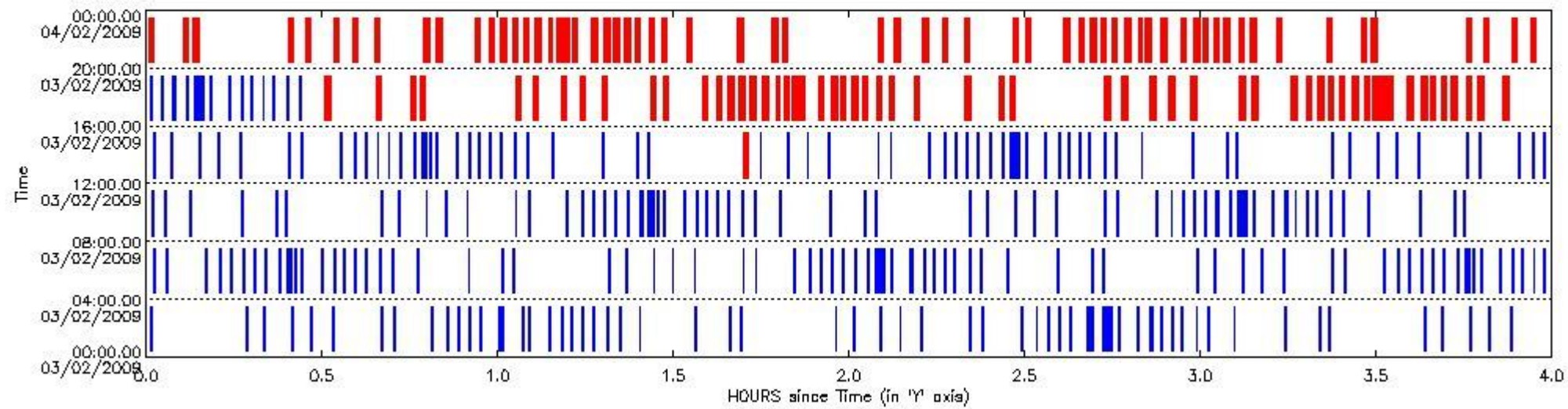
2.1 Level 0 products arrived in PCF (see template [here](#))

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
03-FEB-2009 13:41:53	1AlpUMi	49	36236
03-FEB-2009 16:30:32	15RhoPup	132	36238
03-FEB-2009 16:39:11	10AlpCMi	8	36238
03-FEB-2009 16:45:03	27EpsGem	170	36238
03-FEB-2009 16:46:49	66AlpGem	24	36238
03-FEB-2009 17:03:05	1AlpUMi	49	36238
03-FEB-2009 17:06:00	7BetUMi	60	36238
03-FEB-2009 17:10:45	14EtaDra	119	36238
03-FEB-2009 17:14:03	23BetDra	130	36238
03-FEB-2009 17:17:47	3AlpLyr	5	36238
03-FEB-2009 17:26:07	55AlpOph	59	36238
03-FEB-2009 17:28:16	60BetOph	126	36238
03-FEB-2009 17:34:53	35EtaOph	86	36238
03-FEB-2009 17:37:24	10Gam2Sgr	167	36238
03-FEB-2009 17:39:20	21AlpSco	16	36238

03-FEB-2009 17:41:15	TheSco	40	36238
03-FEB-2009 17:43:07	AlpAra	147	36238
03-FEB-2009 17:45:12	GamLup	131	36238
03-FEB-2009 17:47:30	BetLup	109	36239
03-FEB-2009 17:48:50	DSA1027	0	36239
03-FEB-2009 17:50:11	Alp1Cen	4	36239
03-FEB-2009 17:51:25	BetCen	10	36239
03-FEB-2009 17:54:46	Alp1Cru	12	36239
03-FEB-2009 17:56:57	DelCen	99	36239
03-FEB-2009 17:58:35	UpsCar	159	36239
03-FEB-2009 18:00:30	lotCar	71	36239
03-FEB-2009 18:02:13	DelVel	46	36239
03-FEB-2009 18:04:43	Gam2Vel	34	36239
03-FEB-2009 18:06:47	ZetPup	70	36239
03-FEB-2009 18:11:08	15RhoPup	132	36239
03-FEB-2009 18:19:47	10AlpCMi	8	36239
03-FEB-2009 18:25:39	27EpsGem	170	36239
03-FEB-2009 18:27:25	66AlpGem	24	36239
03-FEB-2009 18:43:41	1AlpUMi	49	36239
03-FEB-2009 18:46:35	7BetUMi	60	36239
03-FEB-2009 18:51:21	14EtaDra	119	36239
03-FEB-2009 18:54:39	23BetDra	130	36239
03-FEB-2009 18:58:23	3AlpLyr	5	36239
03-FEB-2009 19:06:43	55AlpOph	59	36239
03-FEB-2009 19:08:52	60BetOph	126	36239
03-FEB-2009 19:15:30	35EtaOph	86	36239
03-FEB-2009 19:18:01	10Gam2Sgr	167	36239
03-FEB-2009 19:19:57	21AlpSco	16	36239
03-FEB-2009 19:21:52	TheSco	40	36239
03-FEB-2009 19:23:44	AlpAra	147	36239
03-FEB-2009 19:25:48	GamLup	131	36239
03-FEB-2009 19:28:06	BetLup	109	36240
03-FEB-2009 19:29:26	DSA1027	0	36240
03-FEB-2009 19:30:47	Alp1Cen	4	36240
03-FEB-2009 19:32:01	BetCen	10	36240
03-FEB-2009 19:35:22	Alp1Cru	12	36240
03-FEB-2009 19:37:34	DelCen	99	36240
03-FEB-2009 19:39:11	UpsCar	159	36240
03-FEB-2009 19:41:06	lotCar	71	36240
03-FEB-2009 19:42:49	DelVel	46	36240
03-FEB-2009 19:45:19	Gam2Vel	34	36240
03-FEB-2009 19:47:24	ZetPup	70	36240
03-FEB-2009 19:51:44	15RhoPup	132	36240
03-FEB-2009 20:00:23	10AlpCMi	8	36240
03-FEB-2009 20:06:16	27EpsGem	170	36240
03-FEB-2009 20:08:01	66AlpGem	24	36240
03-FEB-2009 20:24:17	1AlpUMi	49	36240
03-FEB-2009 20:27:11	7BetUMi	60	36240
03-FEB-2009 20:31:57	14EtaDra	119	36240
03-FEB-2009 20:35:15	23BetDra	130	36240
03-FEB-2009 20:38:59	3AlpLyr	5	36240
03-FEB-2009 20:47:19	55AlpOph	59	36240
03-FEB-2009 20:49:29	60BetOph	126	36240
03-FEB-2009 20:56:06	35EtaOph	86	36240
03-FEB-2009 20:58:37	10Gam2Sgr	167	36240
03-FEB-2009 21:00:33	21AlpSco	16	36240
03-FEB-2009 21:02:28	TheSco	40	36240
03-FEB-2009 21:04:20	AlpAra	147	36240
03-FEB-2009 21:06:25	GamLup	131	36240

03-FEB-2009 21:08:43	BetLup	109	36241
03-FEB-2009 21:10:03	DSA1027	0	36241
03-FEB-2009 21:11:24	Alp1Cen	4	36241
03-FEB-2009 21:12:38	BetCen	10	36241
03-FEB-2009 21:15:59	Alp1Cru	12	36241
03-FEB-2009 21:18:10	DelCen	99	36241
03-FEB-2009 21:19:47	UpsCar	159	36241
03-FEB-2009 21:21:42	lotCar	71	36241
03-FEB-2009 21:23:26	DelVel	46	36241
03-FEB-2009 21:25:55	Gam2Vel	34	36241
03-FEB-2009 21:28:00	ZetPup	70	36241
03-FEB-2009 21:32:20	15RhoPup	132	36241
03-FEB-2009 21:40:59	10AlpCMi	8	36241
03-FEB-2009 21:46:52	27EpsGem	170	36241
03-FEB-2009 21:48:36	66AlpGem	24	36241
03-FEB-2009 22:04:53	1AlpUMi	49	36241
03-FEB-2009 22:07:47	7BetUMi	60	36241
03-FEB-2009 22:12:33	14EtaDra	119	36241
03-FEB-2009 22:15:50	23BetDra	130	36241
03-FEB-2009 22:19:35	3AlpLyr	5	36241
03-FEB-2009 22:27:56	55AlpOph	59	36241
03-FEB-2009 22:30:05	60BetOph	126	36241
03-FEB-2009 22:36:43	35EtaOph	86	36241
03-FEB-2009 22:39:13	10Gam2Sgr	167	36241
03-FEB-2009 22:41:10	21AlpSco	16	36241
03-FEB-2009 22:43:04	TheSco	40	36241
03-FEB-2009 22:44:56	AlpAra	147	36241
03-FEB-2009 22:47:02	GamLup	131	36241
03-FEB-2009 22:49:20	BetLup	109	36242
03-FEB-2009 22:50:40	DSA1027	0	36242
03-FEB-2009 22:53:14	BetCen	10	36242
03-FEB-2009 22:56:35	Alp1Cru	12	36242
03-FEB-2009 22:58:47	DelCen	99	36242
03-FEB-2009 23:00:24	UpsCar	159	36242
03-FEB-2009 23:02:18	lotCar	71	36242
03-FEB-2009 23:04:02	DelVel	46	36242
03-FEB-2009 23:06:31	Gam2Vel	34	36242
03-FEB-2009 23:08:36	ZetPup	70	36242
03-FEB-2009 23:12:56	15RhoPup	132	36242
03-FEB-2009 23:21:35	10AlpCMi	8	36242
03-FEB-2009 23:27:28	27EpsGem	170	36242
03-FEB-2009 23:29:12	66AlpGem	24	36242
03-FEB-2009 23:45:29	1AlpUMi	49	36242
03-FEB-2009 23:48:22	7BetUMi	60	36242
03-FEB-2009 23:53:08	14EtaDra	119	36242
03-FEB-2009 23:56:26	23BetDra	130	36242

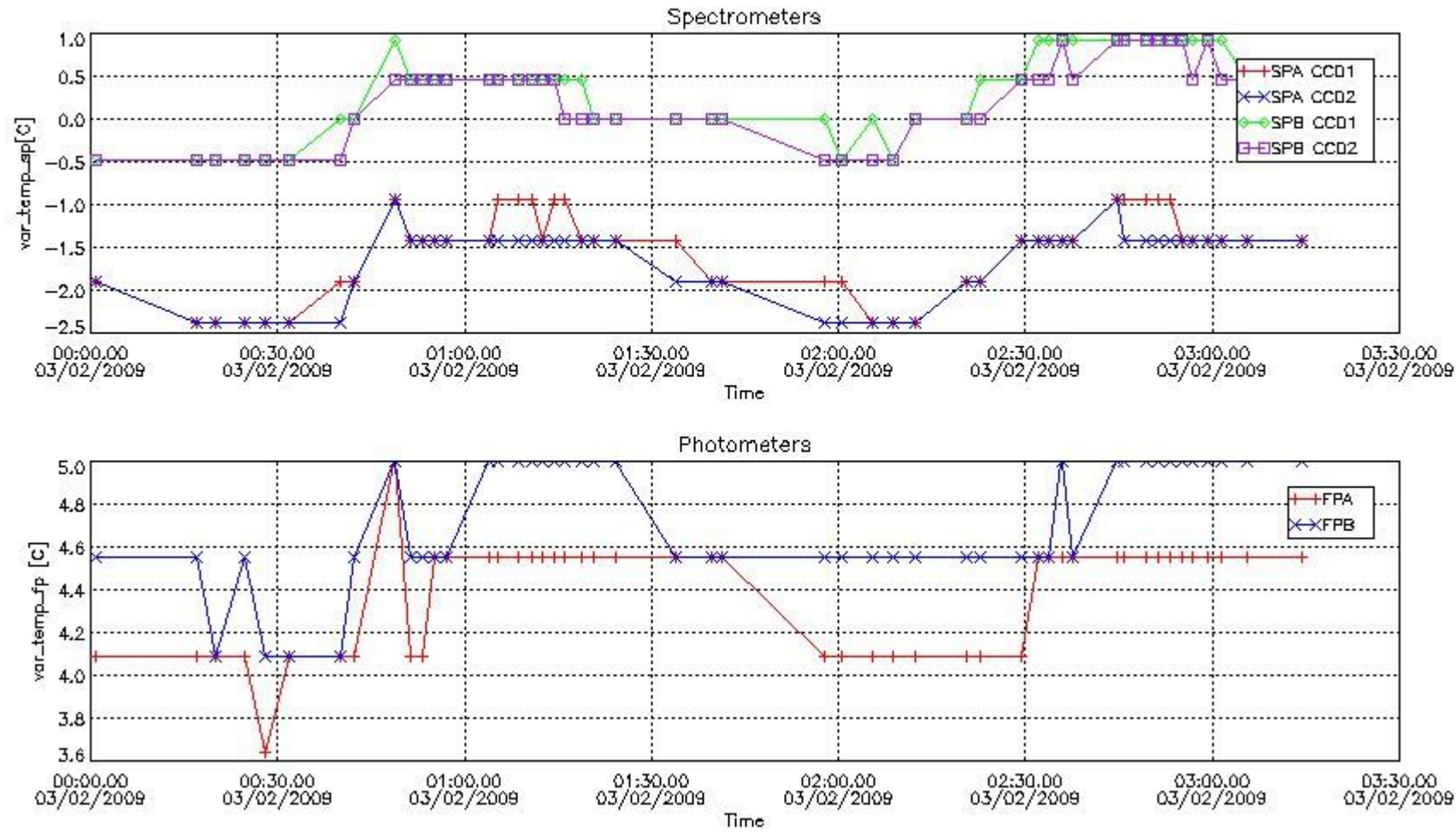
2.4 Summary of processed GOM_TRA_1P products

!Warning: No products without errors in BRIGHT limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090203_000048_000000182076_00102_36228_2754.N1	03-FEB-2009 00:00:48	Tw_i_and_stray	17.500	24	66Alp Gem	1.5800	10200.	35	36228	No
2	GOM_TRA_1PNPDE20090203_001703_000000152076_00102_36228_2755.N1	03-FEB-2009 00:17:03	Tw_i_and_stray	14.500	49	1Alp UMi	1.9900	6300.0	29	36228	No
3	GOM_TRA_1PNPDE20090203_002001_000000162076_00102_36228_2756.N1	03-FEB-2009 00:20:01	Tw_i_and_stray	15.500	60	7Bet UMi	2.0810	3950.0	31	36228	No
4	GOM_TRA_1PNPDE20090203_002446_000000142076_00102_36228_2757.N1	03-FEB-2009 00:24:46	Tw_i_and_stray	13.500	119	14Eta Dra	2.7270	4700.0	27	36228	No
5	GOM_TRA_1PNPDE20090203_002801_000000122076_00102_36228_2758.N1	03-FEB-2009 00:28:01	Tw_i_and_stray	12.000	130	23Bet Dra	2.7990	5800.0	24	36228	No
6	GOM_TRA_1PNPDE20090203_003144_000000112076_00102_36228_2759.N1	03-FEB-2009 00:31:44	Tw_i_and_stray	11.000	5	3Alp Lyr	0.033000	11000.	22	36228	No
7	GOM_TRA_1PNPDE20090203_004002_000000132076_00102_36228_2760.N1	03-FEB-2009 00:40:02	Tw_i_and_stray	12.500	59	55Alp Oph	2.0800	8900.0	25	36228	No
8	GOM_TRA_1PNPDE20090203_004211_000000132076_00102_36228_2761.N1	03-FEB-2009 00:42:11	Tw_i_and_stray	12.500	126	60Bet Oph	2.7700	4250.0	25	36228	No

9	GOM_TRA_1PNPDE20090203_004846_000000162076_00102_36228_2893.N1	03-FEB-2009 00:48:46	Twilight	15.500	86	35Eta Oph	2.4300	10200.	31	36228	Yes
10	GOM_TRA_1PNPDE20090203_005120_000000152076_00102_36228_2894.N1	03-FEB-2009 00:51:20	Twilight	14.500	167	10Gam2Sgr	2.9840	4500.0	29	36228	No
11	GOM_TRA_1PNPDE20090203_005311_000000192076_00102_36228_2895.N1	03-FEB-2009 00:53:11	Dark	18.500	16	21Alp Sco	1.0200	3000.0	37	36228	No
12	GOM_TRA_1PNPDE20090203_005510_000000162076_00102_36228_2896.N1	03-FEB-2009 00:55:10	Dark	16.000	40	The Sco	1.8590	7100.0	32	36228	No
13	GOM_TRA_1PNPDE20090203_005703_000000162076_00102_36228_2897.N1	03-FEB-2009 00:57:03	Dark	16.000	147	Alp Ara	2.8770	26000.	32	36228	No
14	GOM_TRA_1PNPDE20090203_010404_000000192076_00103_36229_2898.N1	03-FEB-2009 01:04:04	Dark	18.500	4	Alp1Cen	-0.010000	5800.0	37	36229	No
15	GOM_TRA_1PNPDE20090203_010517_000000192076_00103_36229_2899.N1	03-FEB-2009 01:05:17	Dark	18.500	10	Bet Cen	0.61000	28000.	37	36229	No
16	GOM_TRA_1PNPDE20090203_010839_000000192076_00103_36229_2900.N1	03-FEB-2009 01:08:39	Dark	18.500	12	Alp1Cru	0.77500	30000.	37	36229	No
17	GOM_TRA_1PNPDE20090203_011048_000000212076_00103_36229_2901.N1	03-FEB-2009 01:10:48	Dark	20.500	99	Del Cen	2.5750	26000.	41	36229	No
18	GOM_TRA_1PNPDE20090203_011230_000000172076_00103_36229_2902.N1	03-FEB-2009 01:12:30	Dark	16.500	159	Ups Car	2.9200	7200.0	33	36229	No
19	GOM_TRA_1PNPDE20090203_011425_000000172076_00103_36229_2903.N1	03-FEB-2009 01:14:25	Dark	16.500	71	lot Car	2.2460	7700.0	33	36229	No
20	GOM_TRA_1PNPDE20090203_011609_000000162076_00103_36229_2904.N1	03-FEB-2009 01:16:09	Dark	16.000	46	Del Vel	1.9540	10600.	32	36229	No
21	GOM_TRA_1PNPDE20090203_011839_000000162076_00103_36229_2905.N1	03-FEB-2009 01:18:39	Dark	15.500	34	Gam2Vel	1.7930	23000.	31	36229	No
22	GOM_TRA_1PNPDE20090203_012043_000000162076_00103_36229_2906.N1	03-FEB-2009 01:20:43	Straylight	15.500	70	Zet Pup	2.2460	39000.	31	36229	No
23	GOM_TRA_1PNPDE20090203_012409_000000162076_00103_36229_2907.N1	03-FEB-2009 01:24:09	Straylight	15.500	88	31Eta CMa	2.4480	20000.	31	36229	No
24	GOM_TRA_1PNPDE20090203_013345_000000172076_00103_36229_2908.N1	03-FEB-2009 01:33:45	Twilight	16.500	8	10Alp CMi	0.40000	6500.0	33	36229	No
25	GOM_TRA_1PNPDE20090203_013936_000000172076_00103_36229_2909.N1	03-FEB-2009 01:39:36	Twilight	16.500	170	27Eps Gem	3.0000	9700.0	33	36229	No
26	GOM_TRA_1PNPDE20090203_014124_000000172076_00103_36229_2910.N1	03-FEB-2009 01:41:24	Twilight	17.000	24	66Alp Gem	1.5800	10200.	34	36229	No
27	GOM_TRA_1PNPDE20090203_015739_000000152076_00103_36229_2911.N1	03-FEB-2009 01:57:39	Twilight	14.500	49	1Alp UMi	1.9900	6300.0	29	36229	No
28	GOM_TRA_1PNPDE20090203_020036_000000152076_00103_36229_2912.N1	03-FEB-2009 02:00:36	Twilight	15.000	60	7Bet UMi	2.0810	3950.0	30	36229	No
29	GOM_TRA_1PNPDE20090203_020521_000000142076_00103_36229_2913.N1	03-FEB-2009 02:05:21	Twilight	13.500	119	14Eta Dra	2.7270	4700.0	27	36229	No
30	GOM_TRA_1PNPDE20090203_020838_000000122076_00103_36229_2914.N1	03-FEB-2009 02:08:38	Twilight	11.500	130	23Bet Dra	2.7990	5800.0	23	36229	No
31	GOM_TRA_1PNPDE20090203_021220_000000112076_00103_36229_2915.N1	03-FEB-2009 02:12:20	Twilight	10.500	5	3Alp Lyr	0.033000	11000.	21	36229	No
32	GOM_TRA_1PNPDE20090203_022039_000000122076_00103_36229_2916.N1	03-FEB-2009 02:20:39	Twilight	11.500	59	55Alp Oph	2.0800	8900.0	23	36229	No
33	GOM_TRA_1PNPDE20090203_022247_000000122076_00103_36229_2917.N1	03-FEB-2009 02:22:47	Twilight	12.000	126	60Bet Oph	2.7700	4250.0	24	36229	No
34	GOM_TRA_1PNPDE20090203_022922_000000152076_00103_36229_3028.N1	03-FEB-2009 02:29:22	Twilight	15.000	86	35Eta Oph	2.4300	10200.	30	36229	No
35	GOM_TRA_1PNPDE20090203_023156_000000142076_00103_36229_3029.N1	03-FEB-2009 02:31:56	Twilight	14.000	167	10Gam2Sgr	2.9840	4500.0	28	36229	No
36	GOM_TRA_1PNPDE20090203_023348_000000182076_00103_36229_3030.N1	03-FEB-2009 02:33:48	Dark	18.000	16	21Alp Sco	1.0200	3000.0	36	36229	No
37	GOM_TRA_1PNPDE20090203_023547_000000162076_00103_36229_3031.N1	03-FEB-2009 02:35:47	Dark	15.500	40	The Sco	1.8590	7100.0	31	36229	No
38	GOM_TRA_1PNPDE20090203_023739_000000162076_00103_36229_3032.N1	03-FEB-2009 02:37:39	Dark	15.500	147	Alp Ara	2.8770	26000.	31	36229	No
39	GOM_TRA_1PNPDE20090203_024440_000000192076_00104_36230_3033.N1	03-FEB-2009 02:44:40	Dark	19.000	4	Alp1Cen	-0.010000	5800.0	38	36230	No
40	GOM_TRA_1PNPDE20090203_024554_000000192076_00104_36230_3034.N1	03-FEB-2009 02:45:54	Dark	18.500	10	Bet Cen	0.61000	28000.	37	36230	No
41	GOM_TRA_1PNPDE20090203_024915_000000182076_00104_36230_3035.N1	03-FEB-2009 02:49:15	Dark	18.000	12	Alp1Cru	0.77500	30000.	36	36230	No
42	GOM_TRA_1PNPDE20090203_025124_000000212076_00104_36230_3036.N1	03-FEB-2009 02:51:24	Dark	20.500	99	Del Cen	2.5750	26000.	41	36230	No
43	GOM_TRA_1PNPDE20090203_025306_000000172076_00104_36230_3037.N1	03-FEB-2009 02:53:06	Dark	17.000	159	Ups Car	2.9200	7200.0	34	36230	No
44	GOM_TRA_1PNPDE20090203_025501_000000172076_00104_36230_3038.N1	03-FEB-2009 02:55:01	Dark	16.500	71	lot Car	2.2460	7700.0	33	36230	No
45	GOM_TRA_1PNPDE20090203_025645_000000162076_00104_36230_3039.N1	03-FEB-2009 02:56:45	Dark	16.000	46	Del Vel	1.9540	10600.	32	36230	No
46	GOM_TRA_1PNPDE20090203_025915_000000162076_00104_36230_3040.N1	03-FEB-2009 02:59:15	Dark	16.000	34	Gam2Vel	1.7930	23000.	32	36230	No
47	GOM_TRA_1PNPDE20090203_030120_000000162076_00104_36230_3041.N1	03-FEB-2009 03:01:20	Straylight	15.500	70	Zet Pup	2.2460	39000.	31	36230	No
48	GOM_TRA_1PNPDE20090203_030540_000000162076_00104_36230_3042.N1	03-FEB-2009 03:05:40	Straylight	15.500	132	15Rho Pup	2.8030	6900.0	31	36230	No
49	GOM_TRA_1PNPDE20090203_031421_000000162076_00104_36230_3043.N1	03-FEB-2009 03:14:21	Twilight	16.000	8	10Alp CMi	0.40000	6500.0	32	36230	No

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



4. Overview of dark signal processing per product

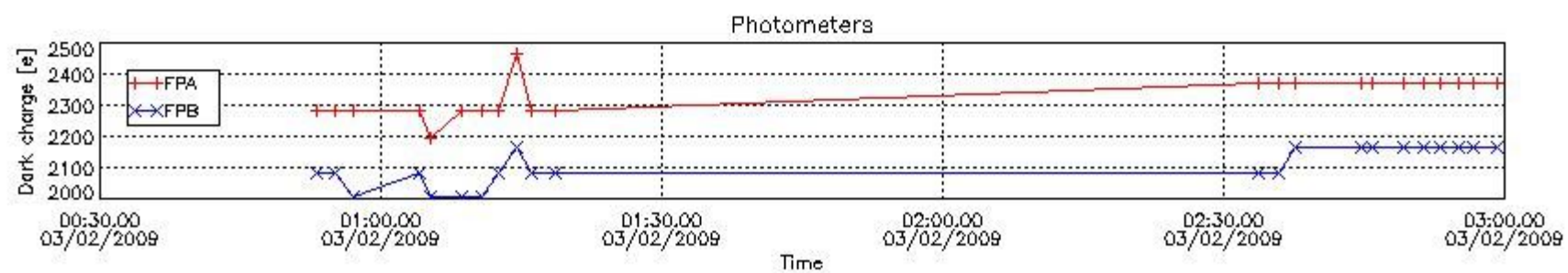
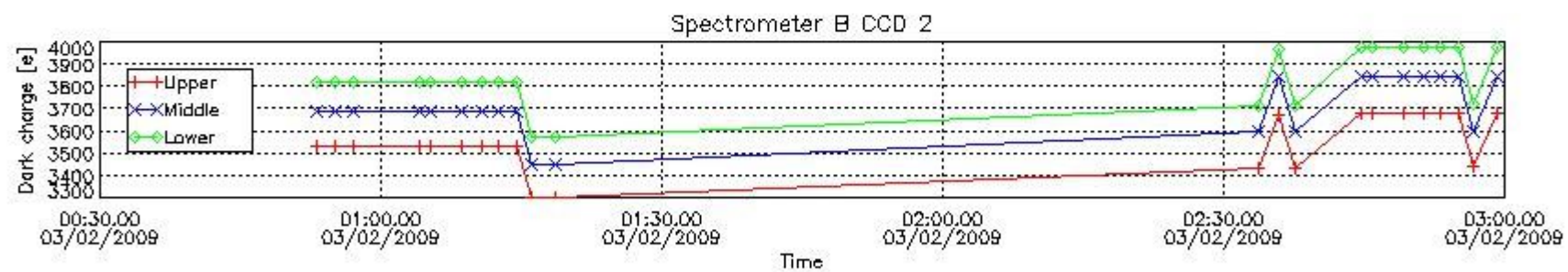
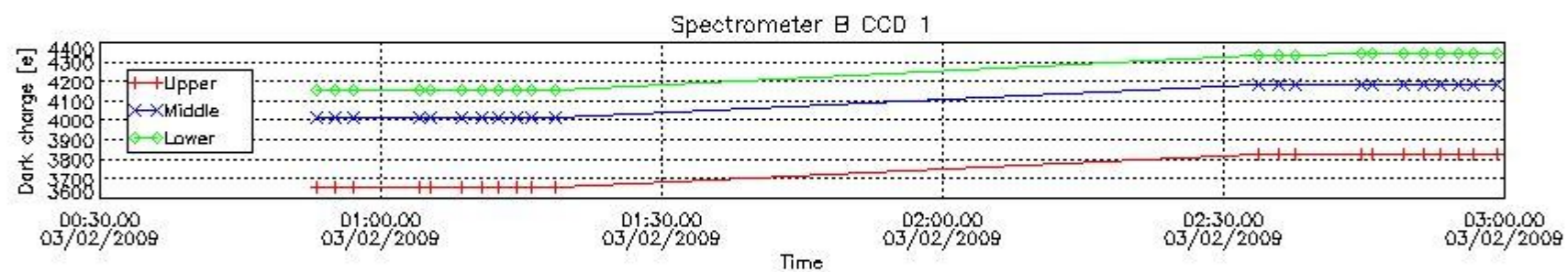
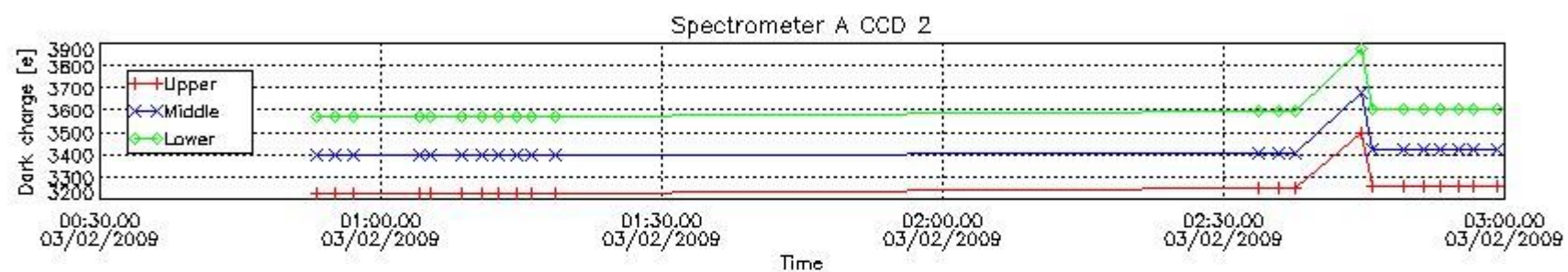
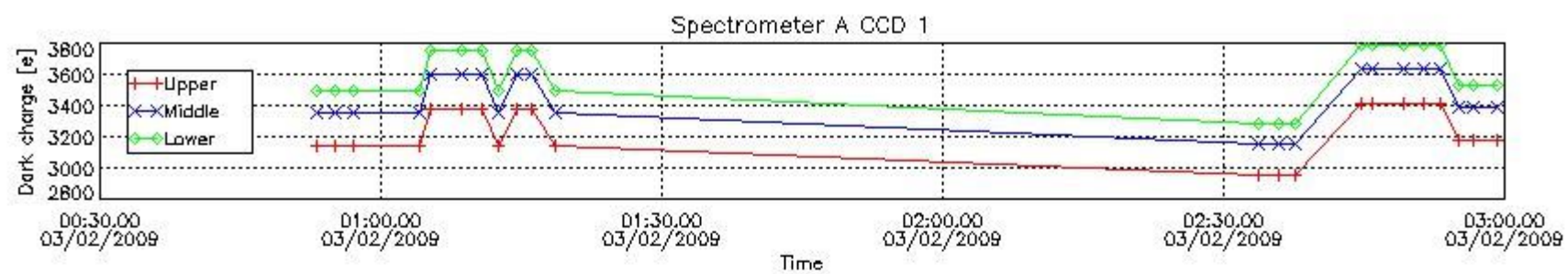
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090203_000048_000000182076_00102_36228_2754.N1	DC map used
GOM_TRA_1PNPDE20090203_001703_000000152076_00102_36228_2755.N1	DC map used
GOM_TRA_1PNPDE20090203_002001_000000162076_00102_36228_2756.N1	DC map used
GOM_TRA_1PNPDE20090203_002446_000000142076_00102_36228_2757.N1	DC map used
GOM_TRA_1PNPDE20090203_002801_000000122076_00102_36228_2758.N1	DC map used
GOM_TRA_1PNPDE20090203_003144_000000112076_00102_36228_2759.N1	DC map used
GOM_TRA_1PNPDE20090203_004002_000000132076_00102_36228_2760.N1	DC map used
GOM_TRA_1PNPDE20090203_004211_000000132076_00102_36228_2761.N1	DC map used

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



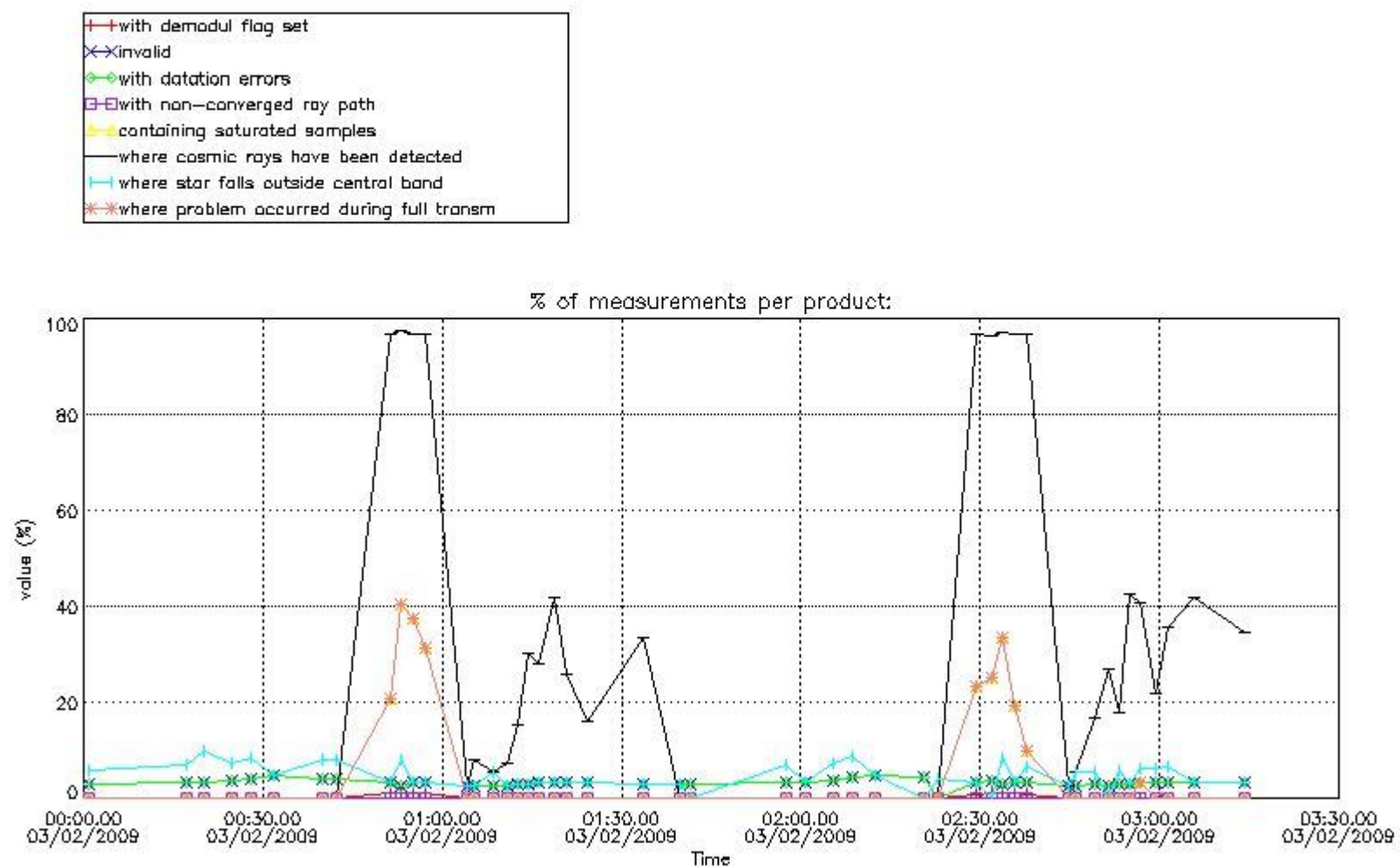
5. Demodulation flag and quality information monitoring

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.

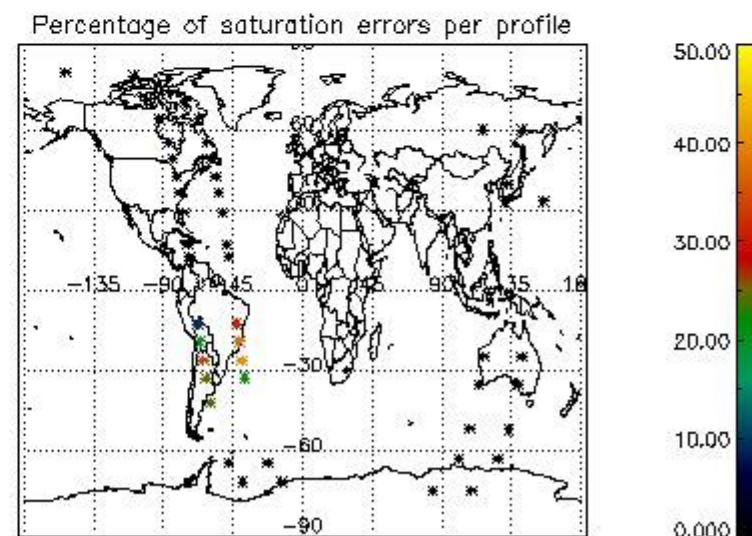
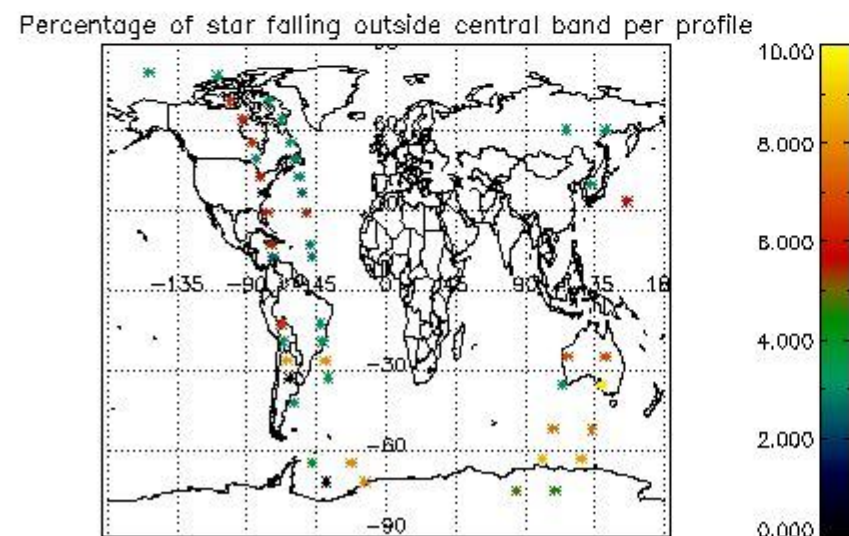
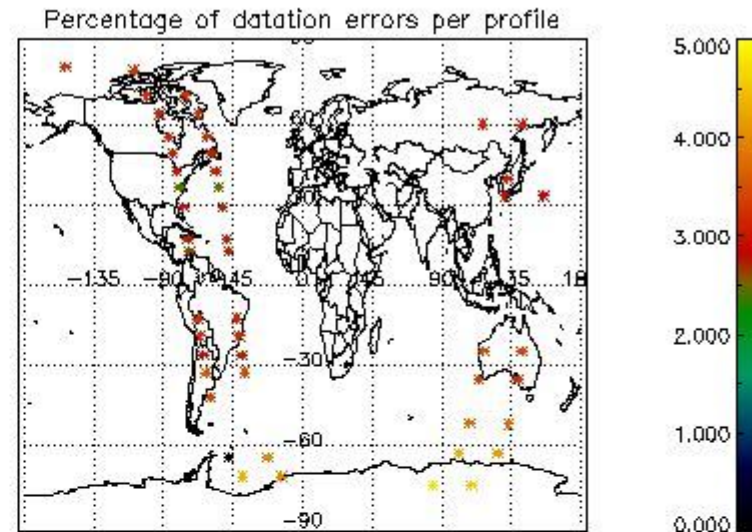
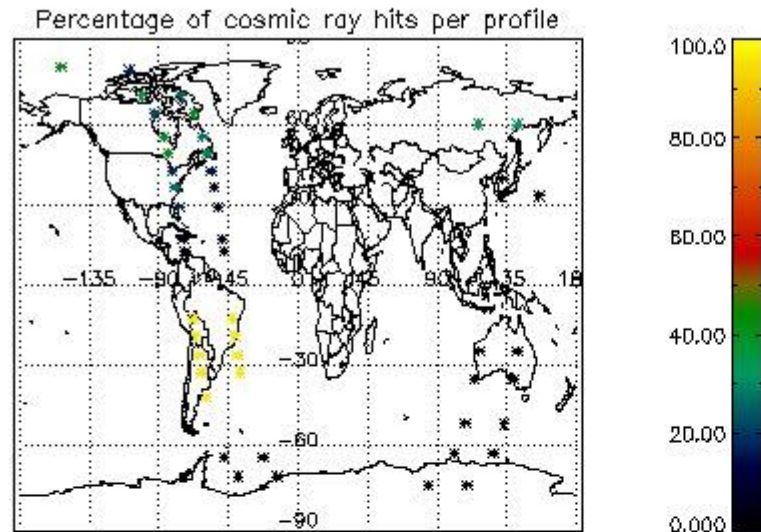
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	43.7500 %
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)



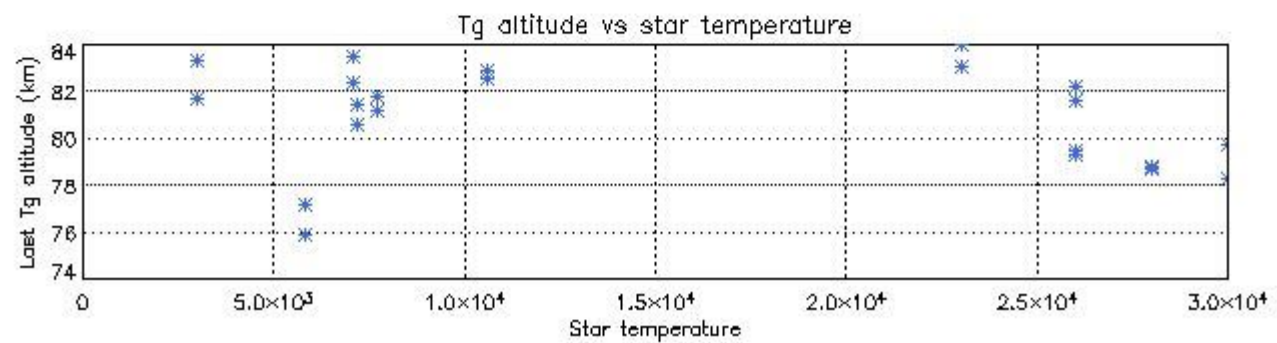
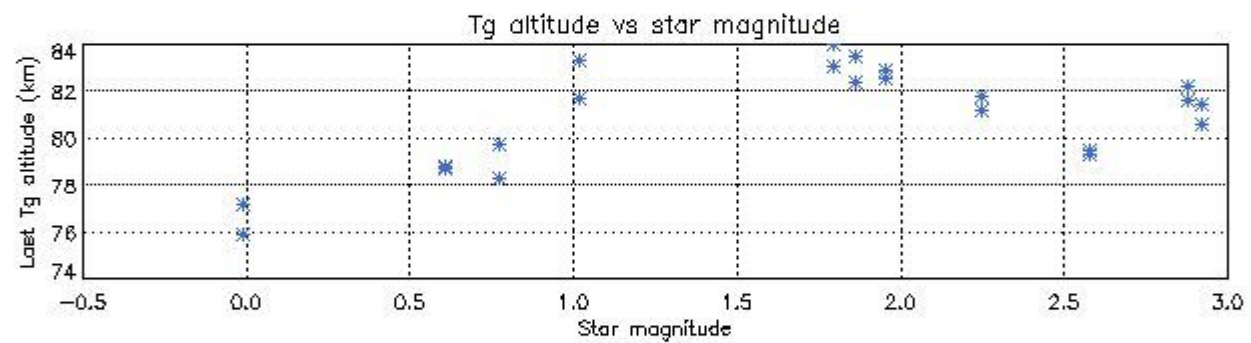
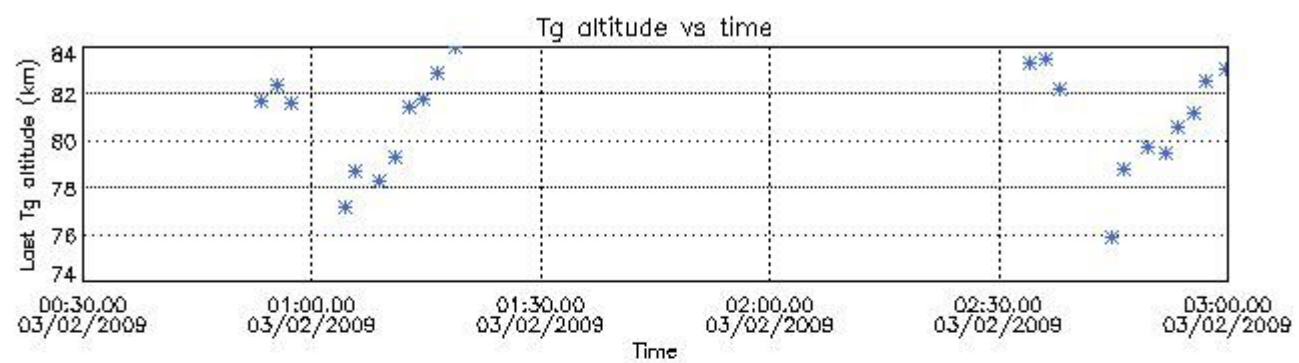
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	80.880	NaN	86.643
St. deviation:	2.1827	NaN	1.4262
Maximum:	83.961	NaN	87.652
Minimum:	75.903	NaN	85.635
Number of data:	22.000	NaN	2.0000

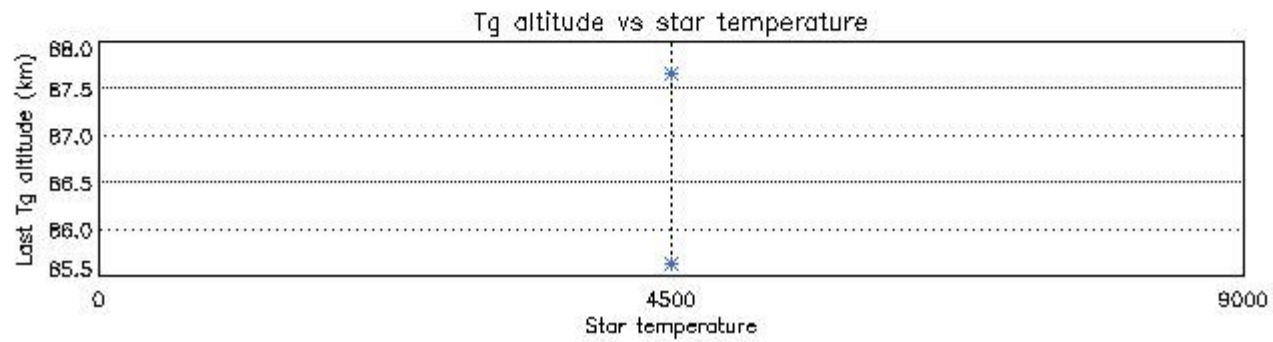
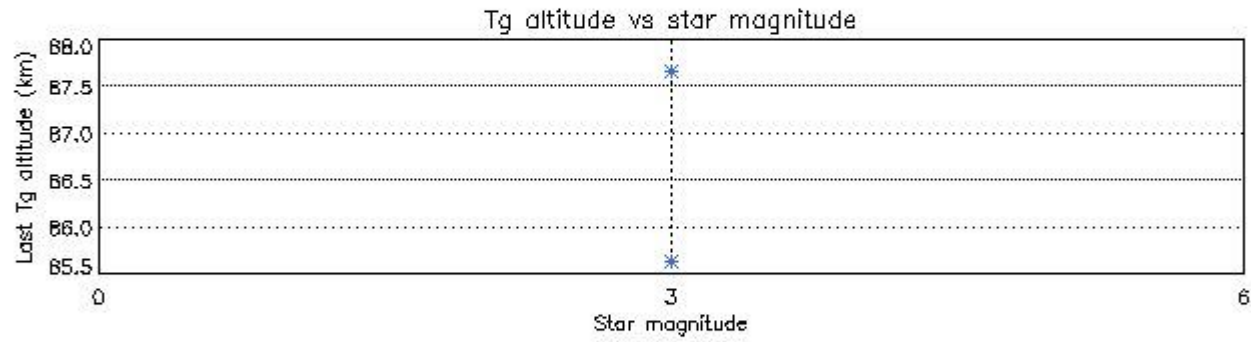
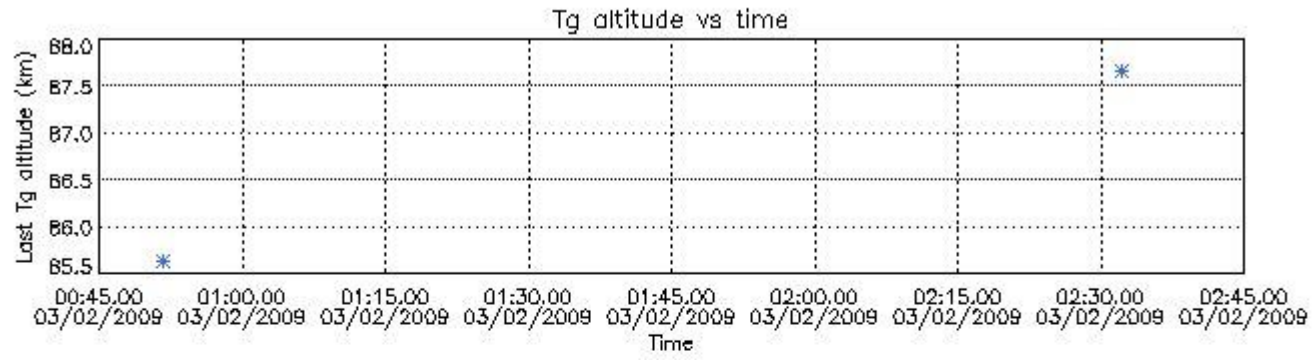
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

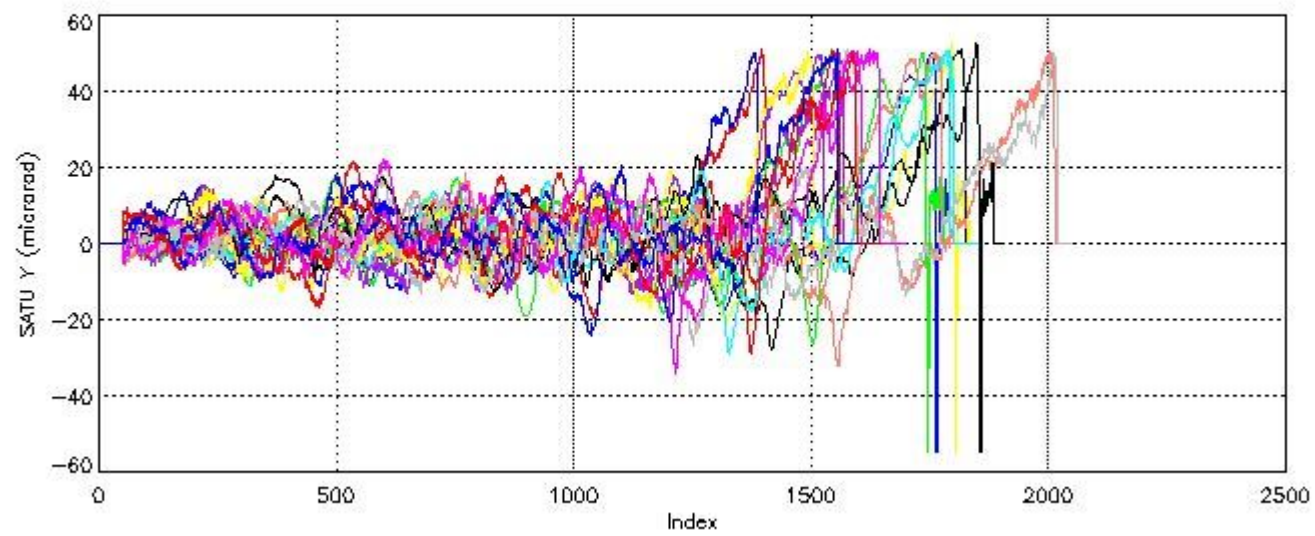
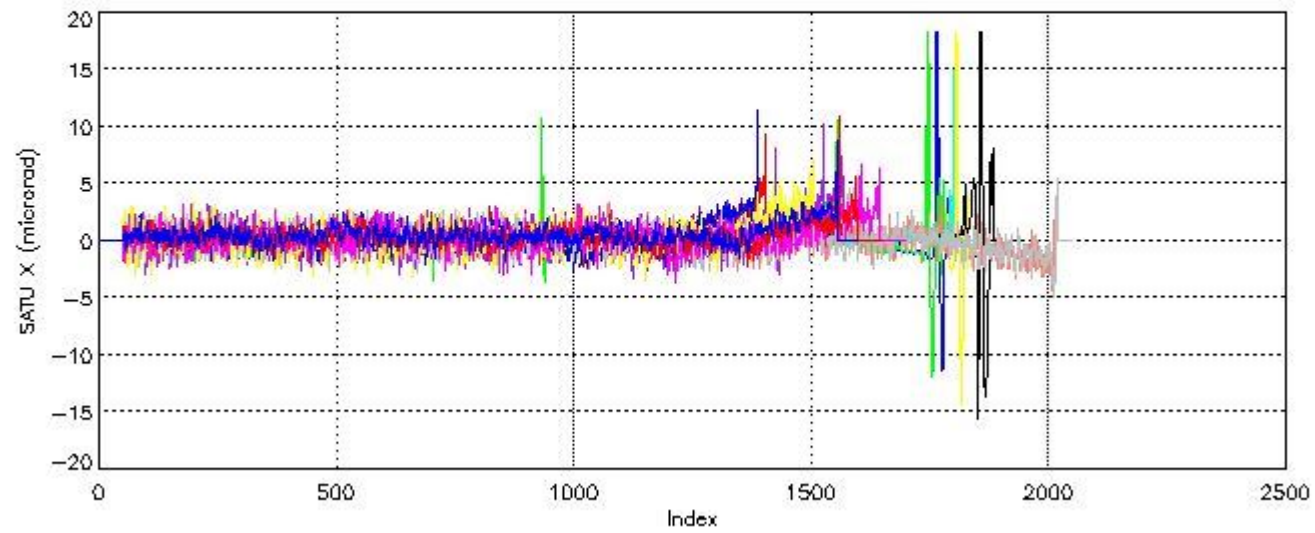


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17997	1.7167	NaN	NaN
St. deviation:	0.53655	5.3461	NaN	NaN
Maximum:	3.4000	22.100	NaN	NaN
Minimum:	-3.5000	-19.200	NaN	NaN

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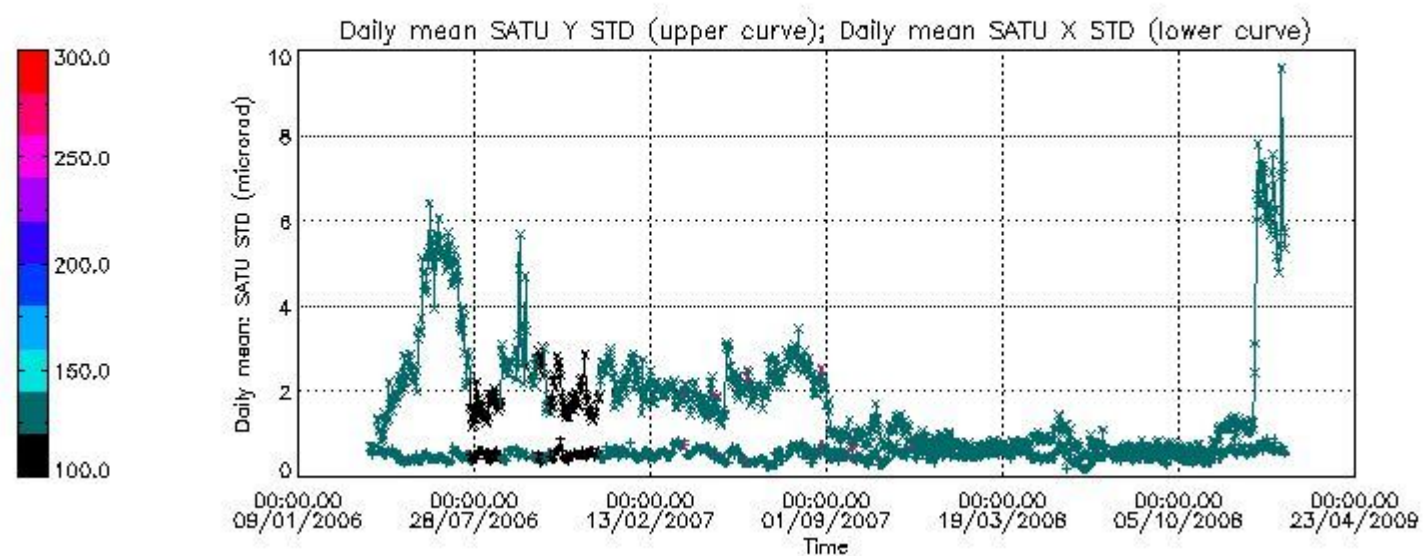
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

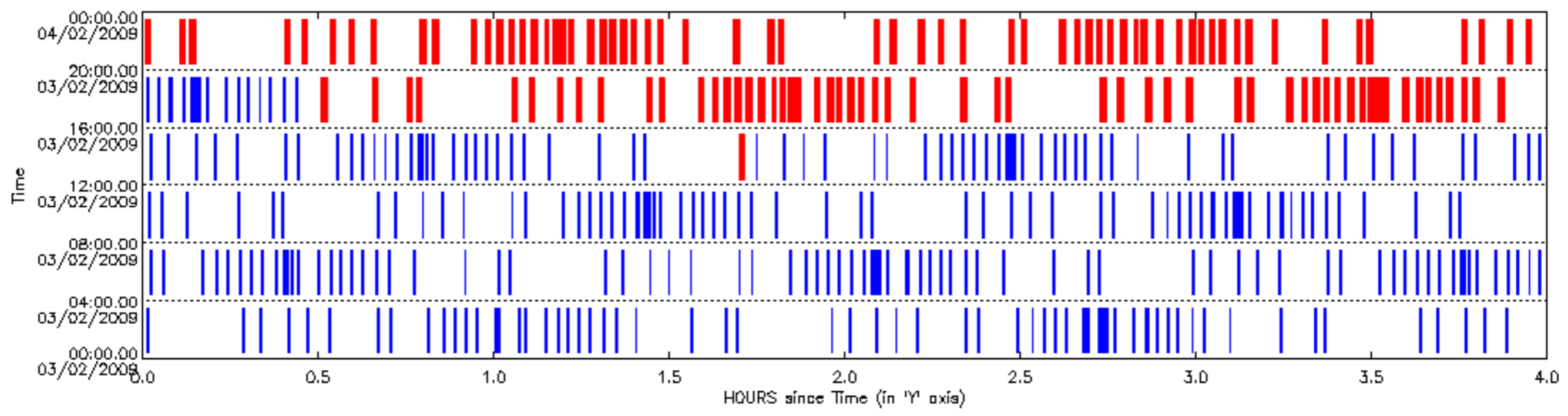
Lower curve: STD of SATU X axis

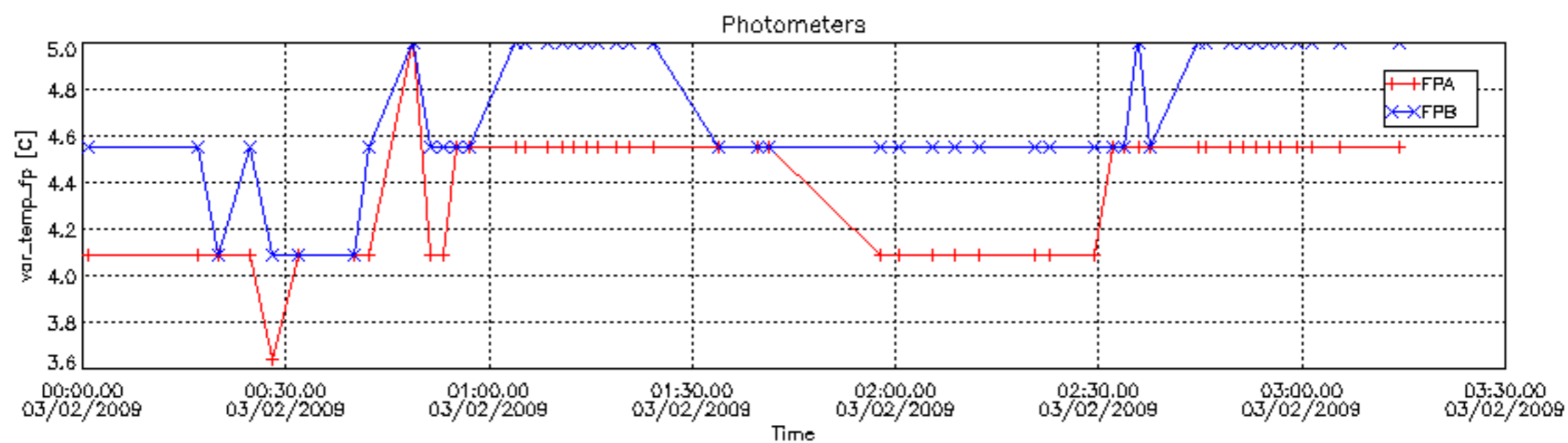
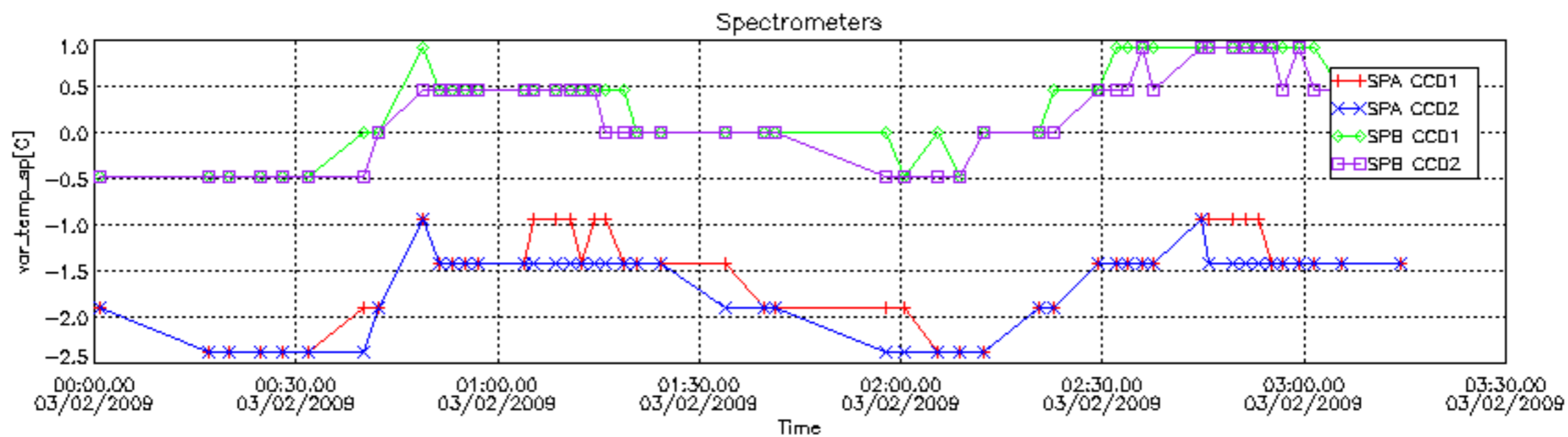


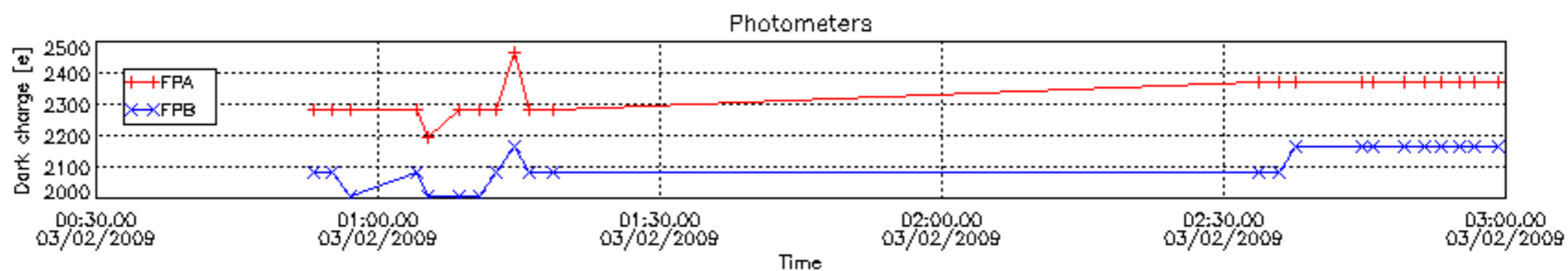
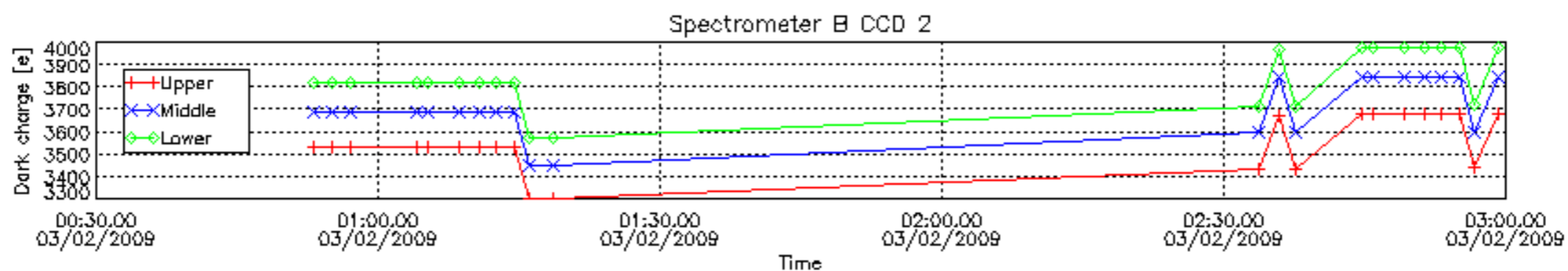
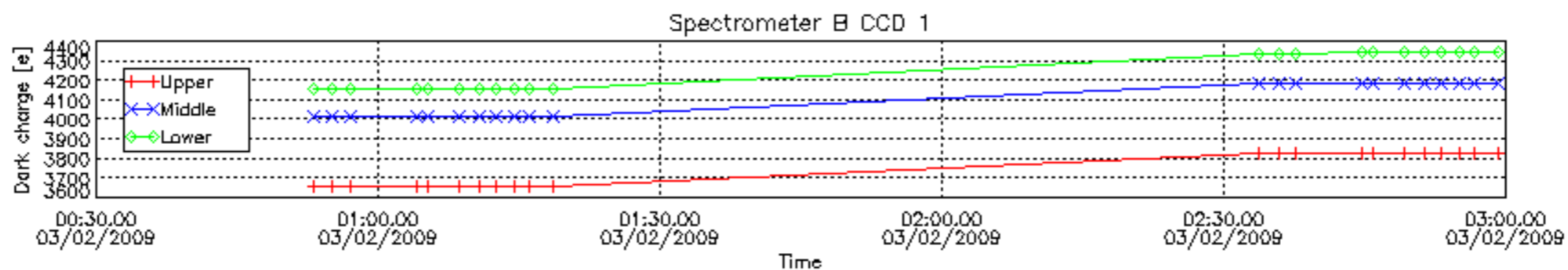
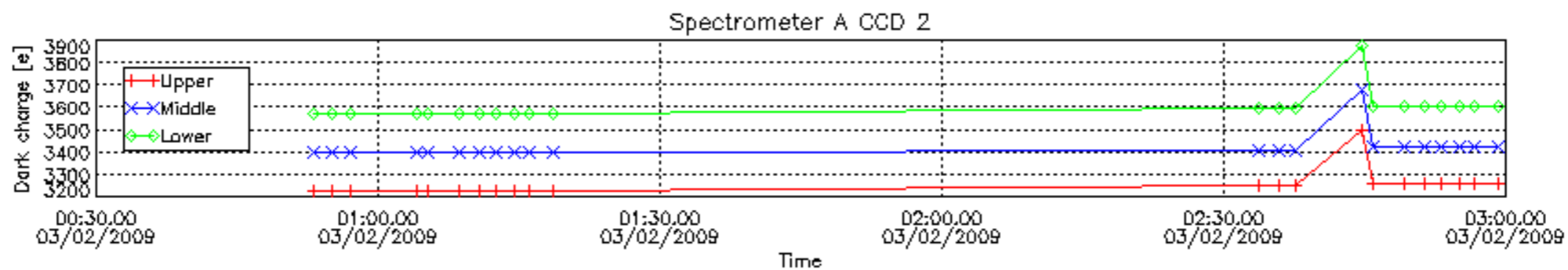
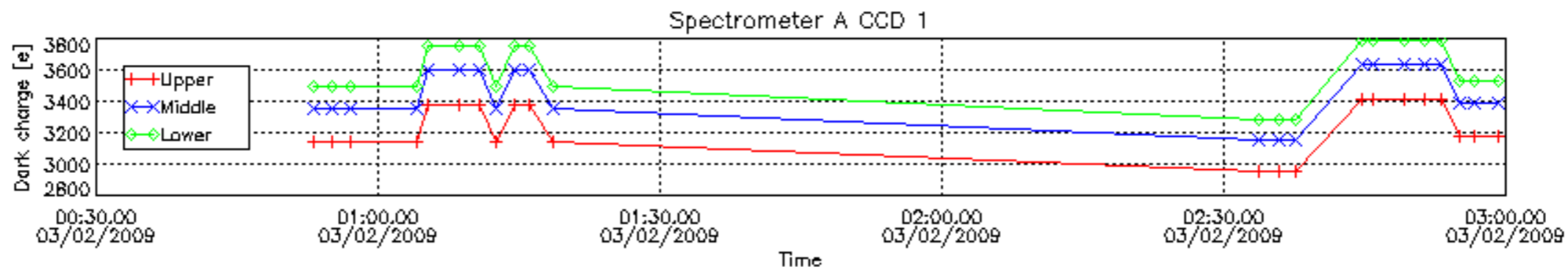
8. Auxiliary Data Files used for the production reported in section 2.4

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

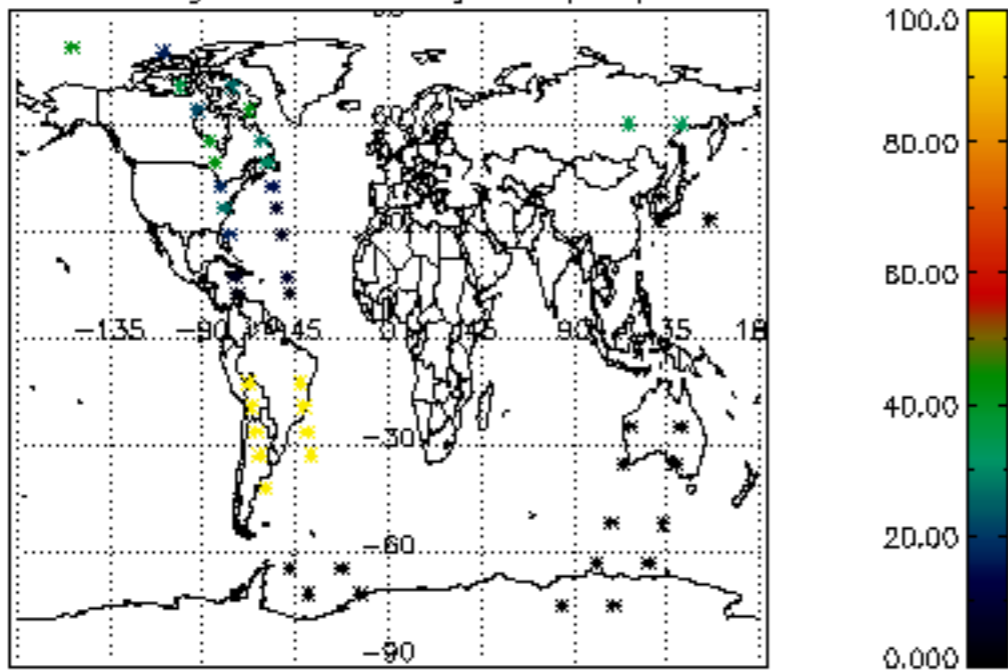
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	03-FEB-2009 00:00:48
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	03-FEB-2009 00:00:48
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-FEB-2009 00:00:48
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-FEB-2009 00:00:48
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-FEB-2009 00:00:48
ECMWF_FILE	AUX_ECF_AXNECM20090202_064111_20090202_210000_20090203_090000	1	03-FEB-2009 00:00:48
OPTIONAL_ECMWF_FILE	MISSING	1	03-FEB-2009 00:00:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090202_212127_000060572076_00100_36226_7286.N1	1	03-FEB-2009 00:00:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090202_230743_000057382076_00101_36227_7287.N1	9	03-FEB-2009 00:48:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090203_004840_000051012076_00102_36228_7288.N1	34	03-FEB-2009 02:29:22



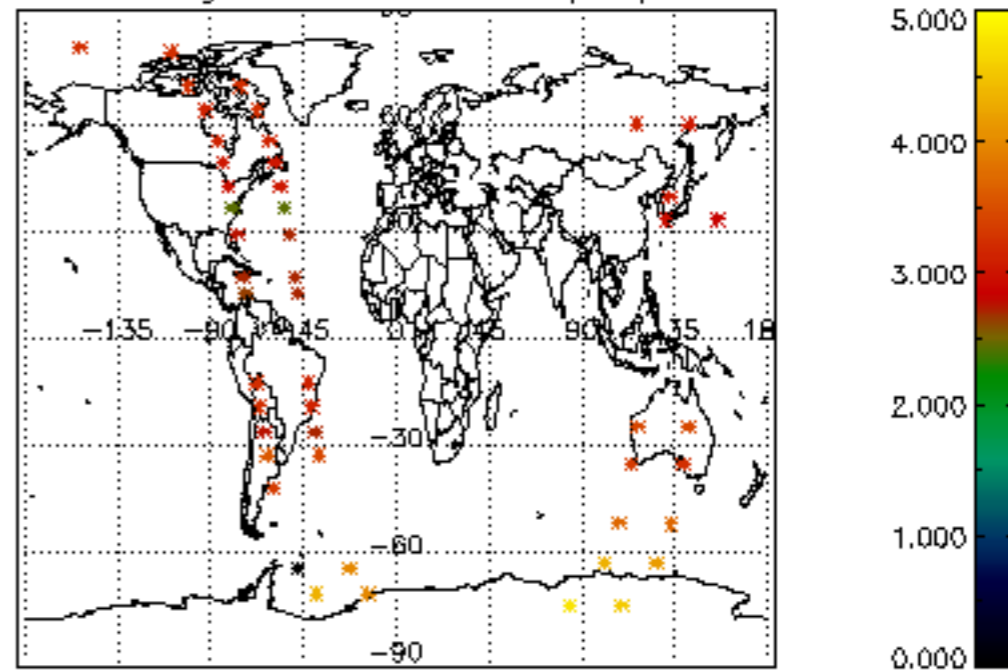




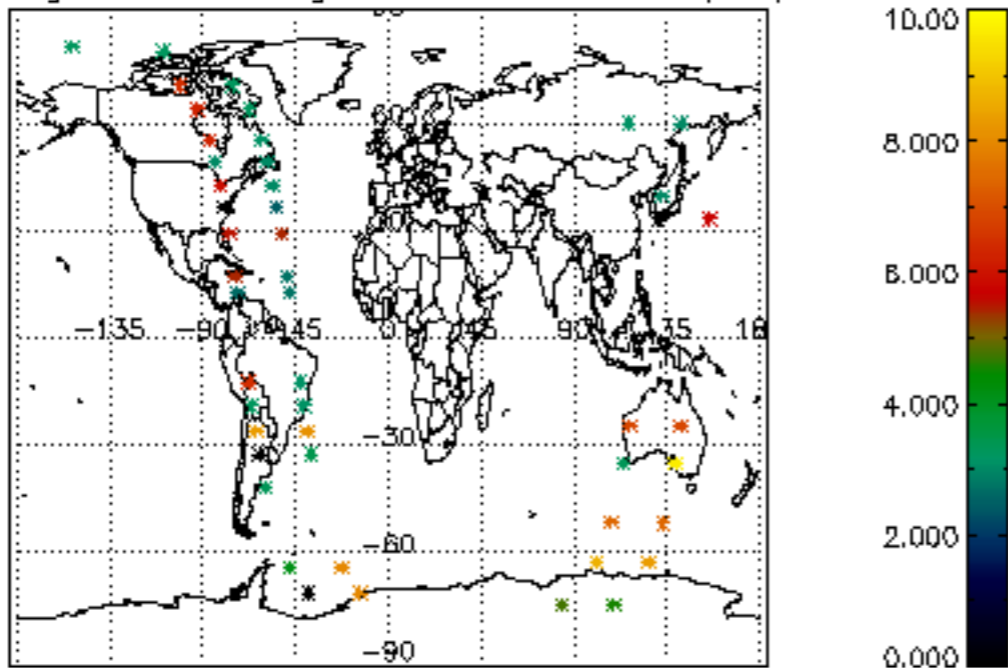
Percentage of cosmic ray hits per profile



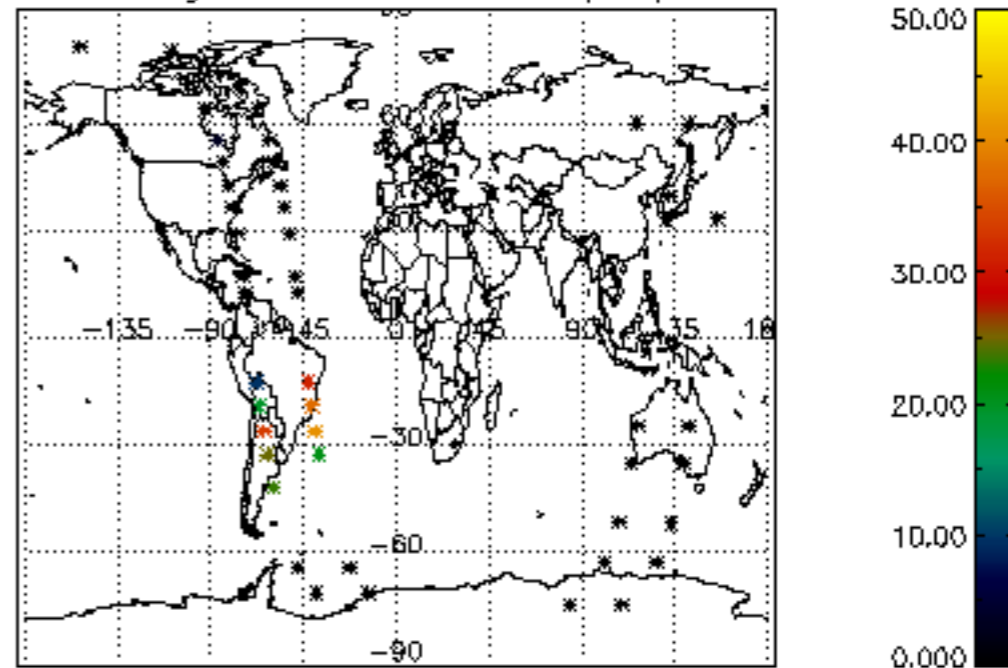
Percentage of datation errors per profile



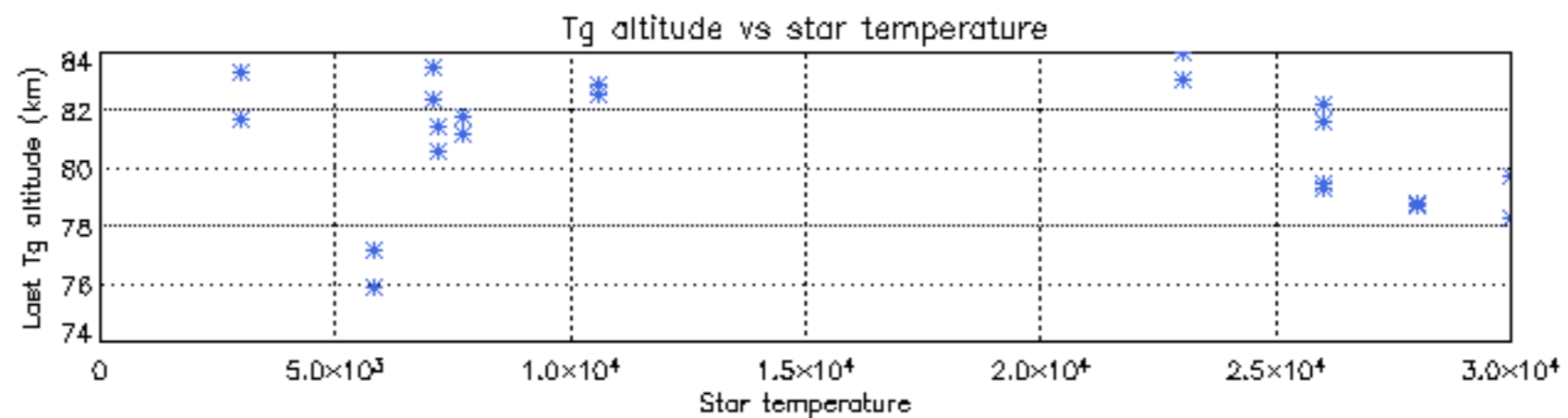
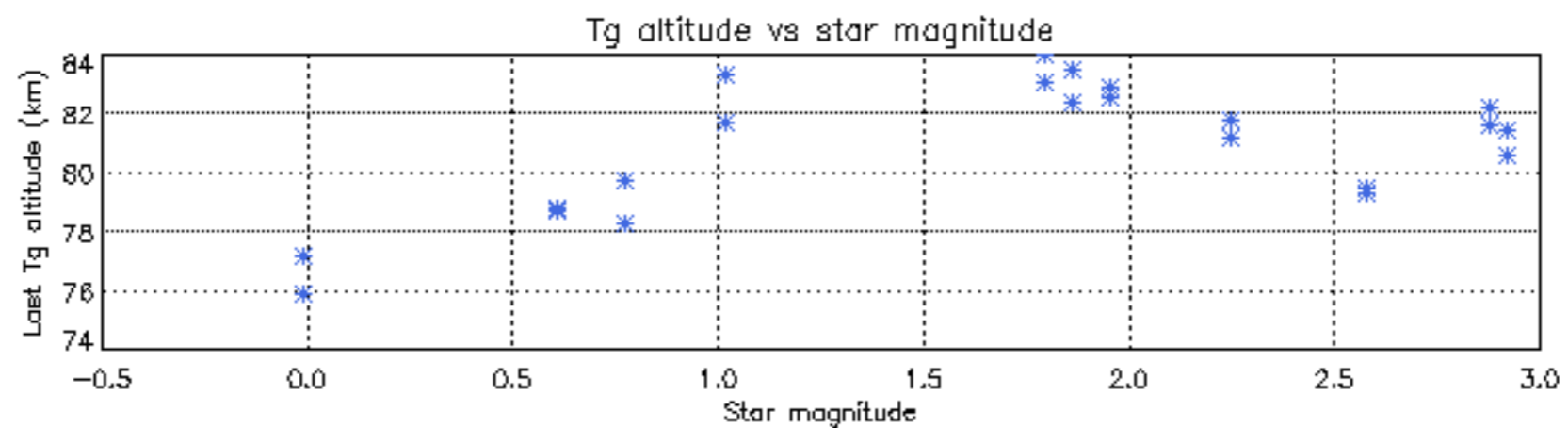
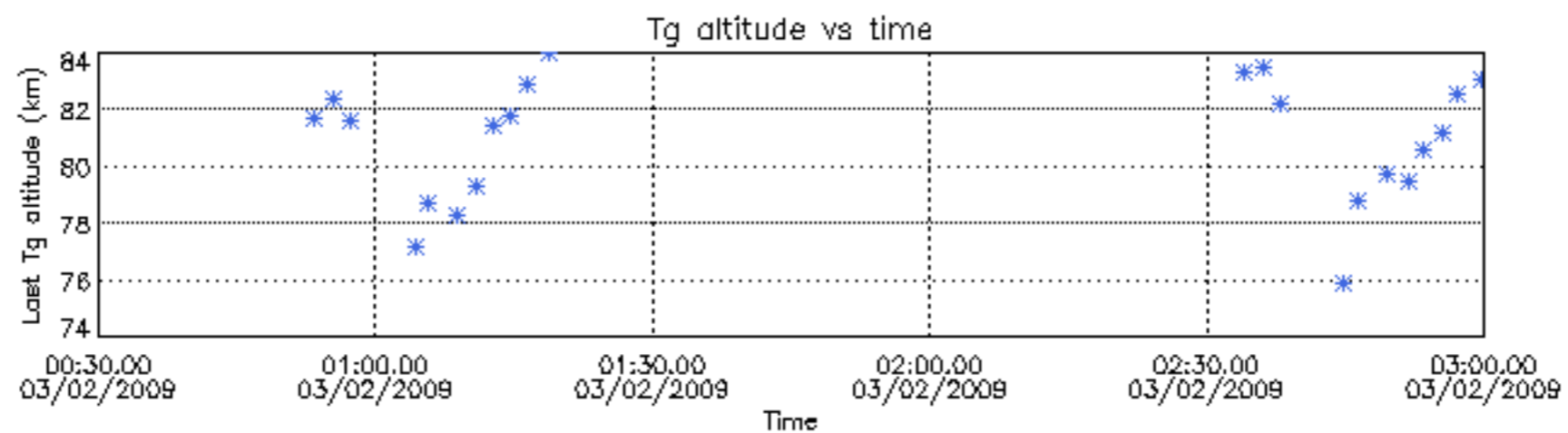
Percentage of star falling outside central band per profile



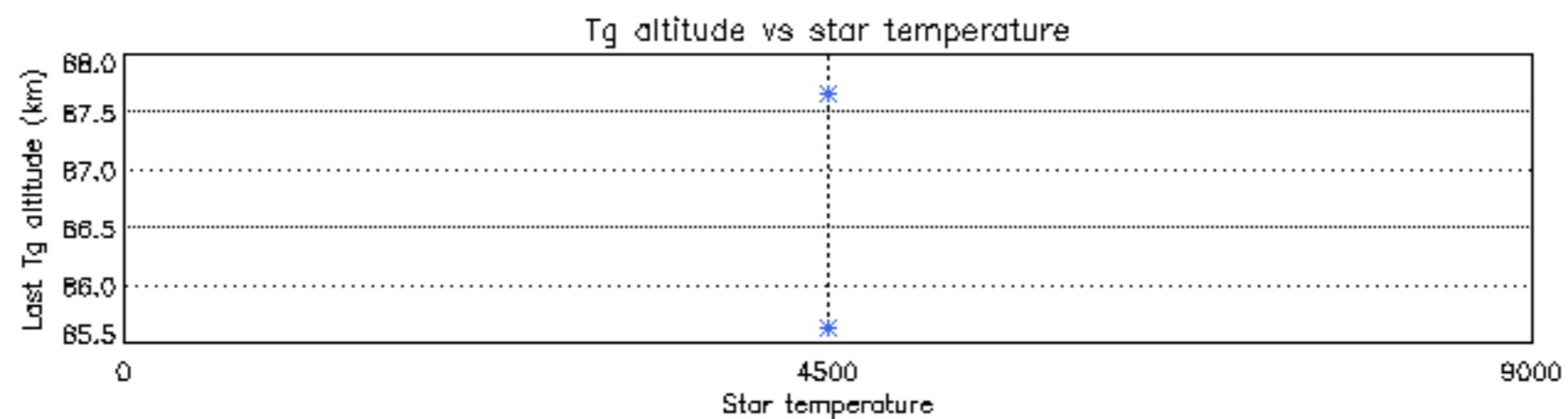
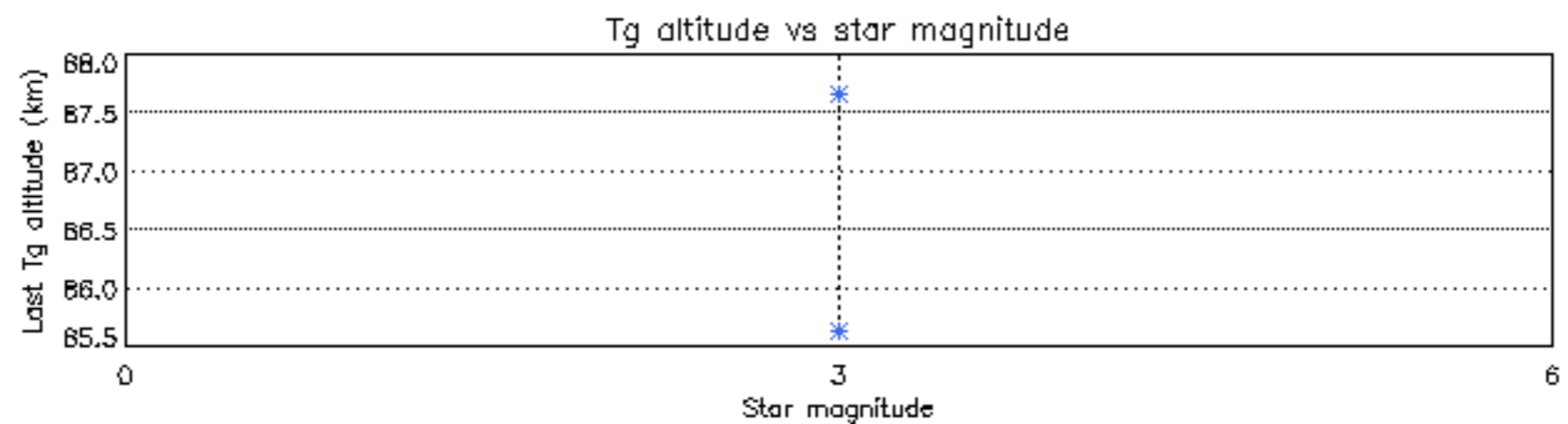
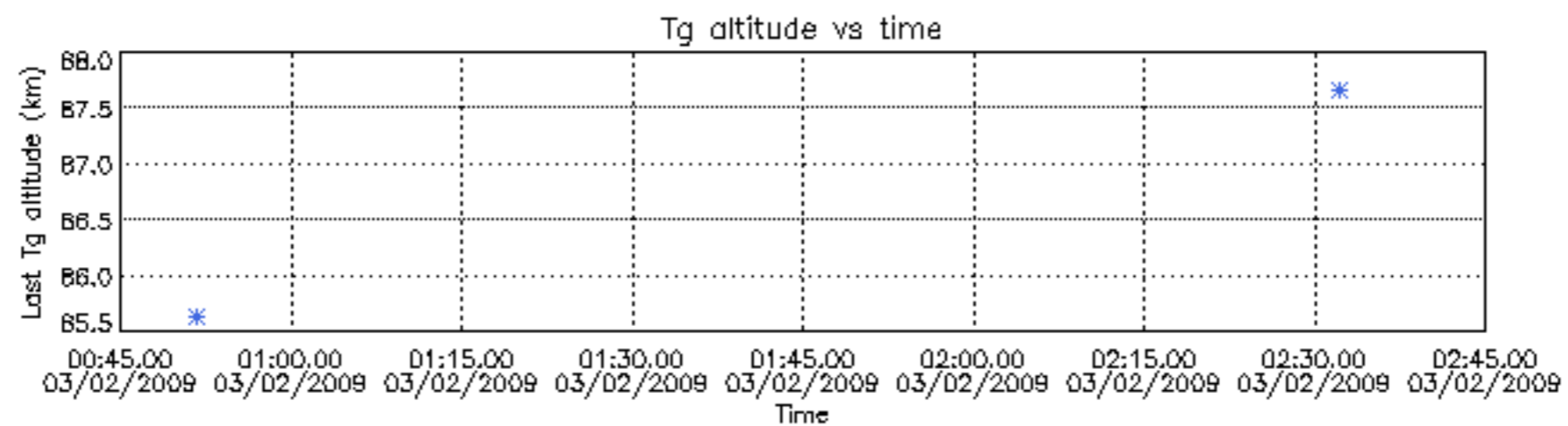
Percentage of saturation errors per profile

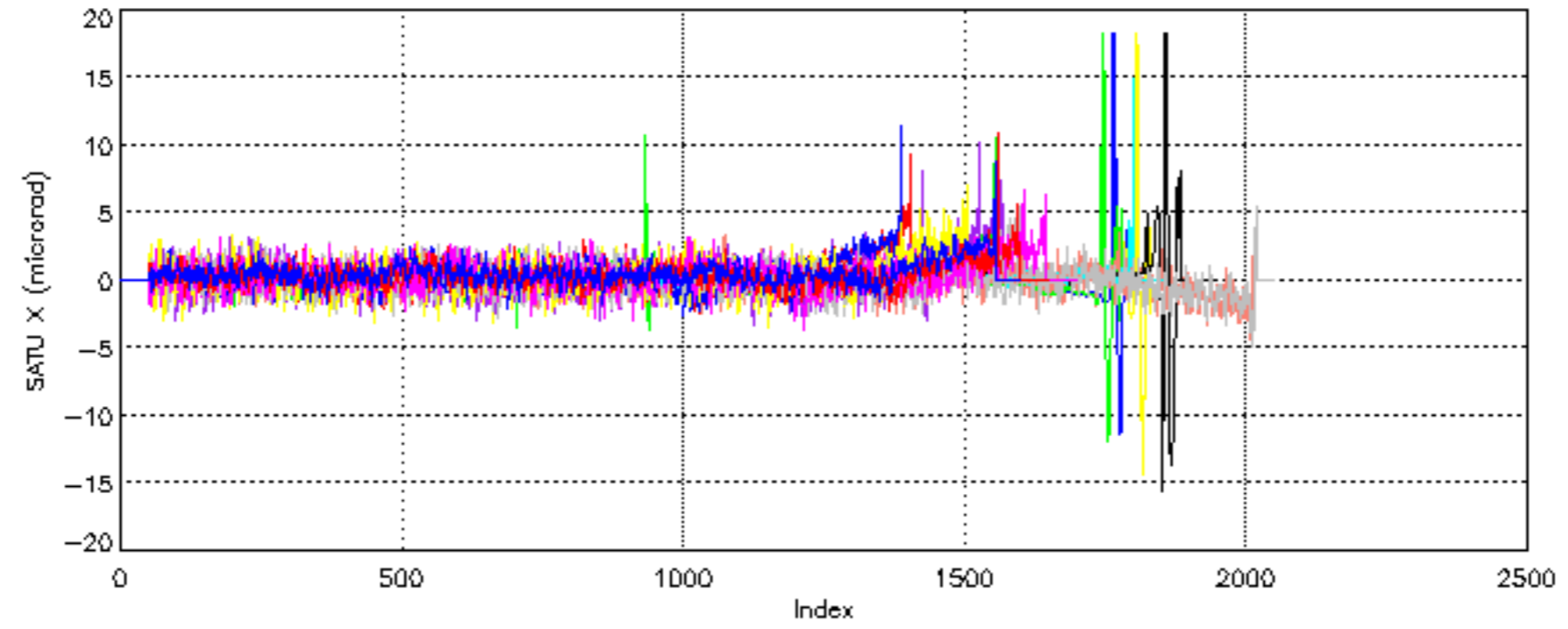


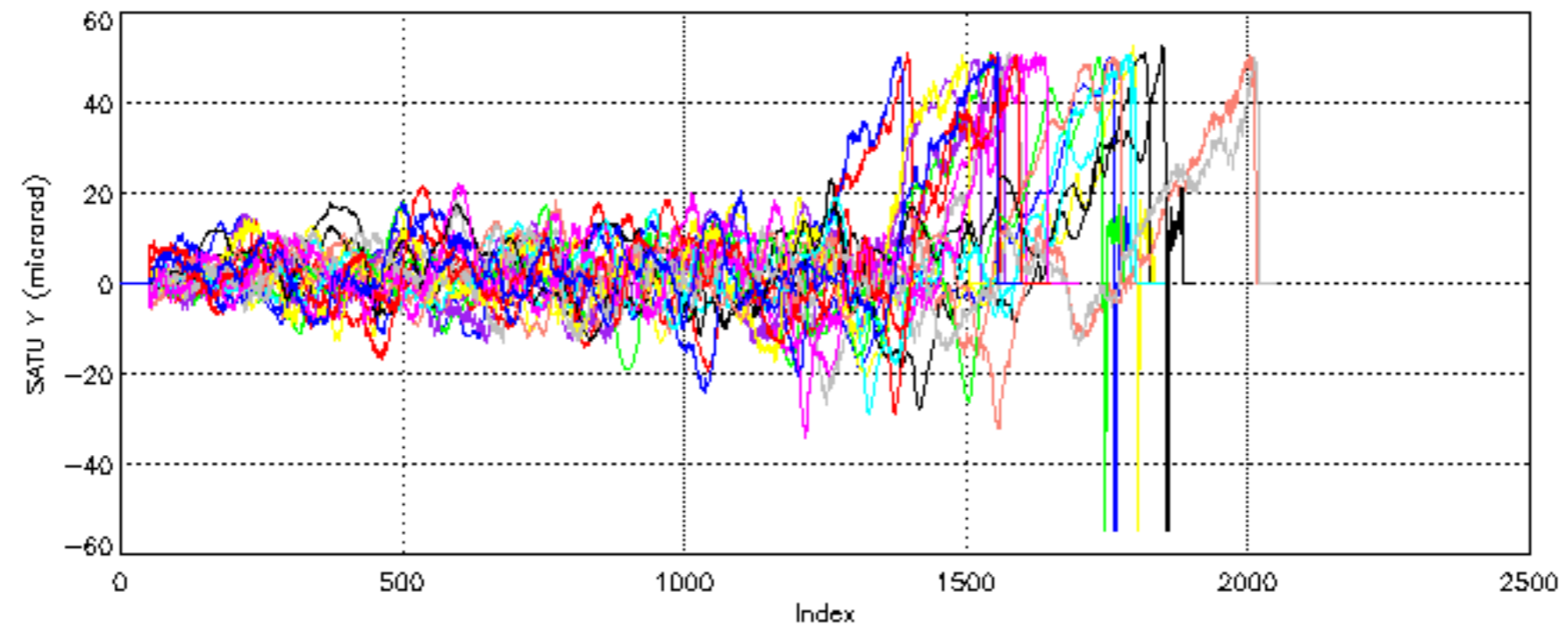
Tangent altitude at which the star is lost

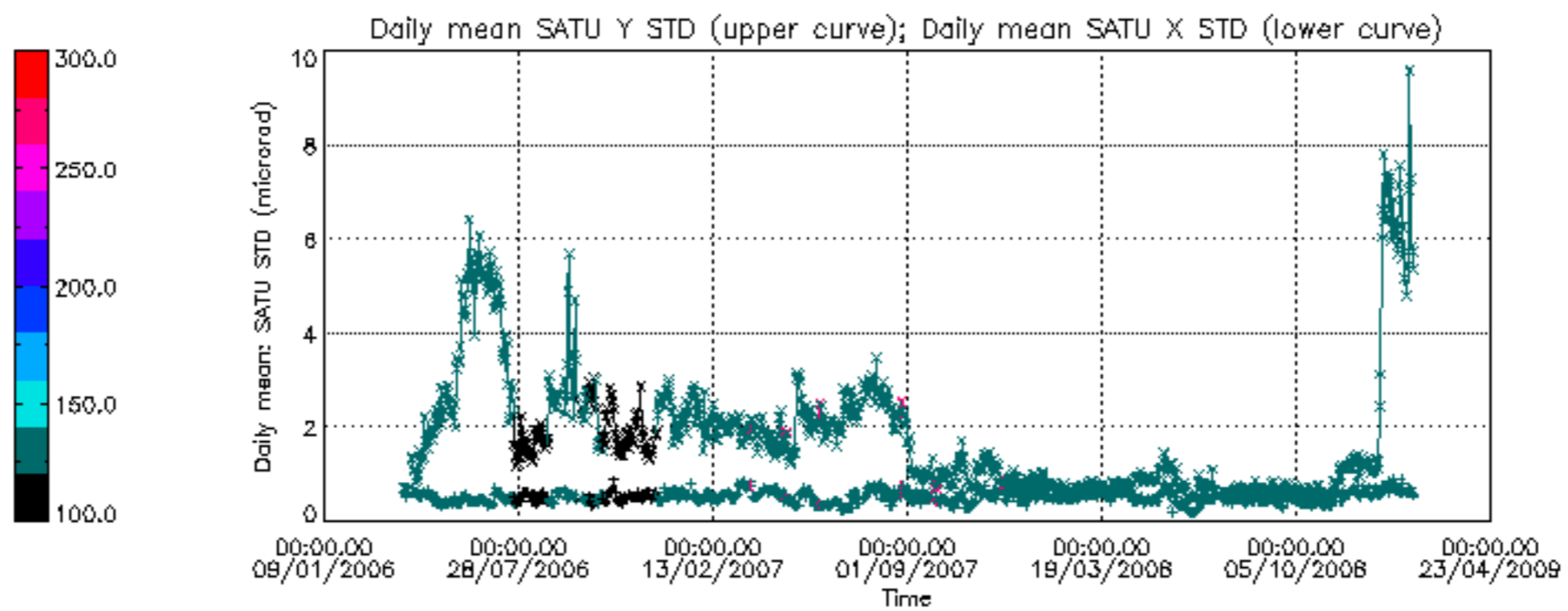


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090201_001109_000056722076_00073_36199_7320.N1

1; -720.1; 01-FEB-2009 00:11:09; Dark ; 29.5; 86; 35Eta Oph ; 2.43; 10200;occ; 59; 0;36199
 2; -460.9; 01-FEB-2009 00:15:28; Dark ; 33.0; 16; 21Alp Sco ; 1.02; 3000;occ; 66; 0;36199
 3; -330.1; 01-FEB-2009 00:17:39; Dark ; 29.0; 40; The Sco ; 1.86; 7100;occ; 58; 0;36199
 4; 20.5; 01-FEB-2009 00:23:29; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;36200
 5; 109.3; 01-FEB-2009 00:24:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36200
 6; 196.9; 01-FEB-2009 00:26:26; Dark ; 32.5; 4; Alp1Cen ;-0.01; 5800;occ; 65; 0;36200
 7; 313.6; 01-FEB-2009 00:28:22; Dark ; 36.0; 77; Eps Cen ; 2.30; 28000;occ; 72; 0;36200
 8; 472.2; 01-FEB-2009 00:31:01; Dark ; 32.5; 12; Alp1Cru ; 0.77; 30000;occ; 65; 0;36200
 9; 594.2; 01-FEB-2009 00:33:03; Dark ; 37.0; 99; Del Cen ; 2.58; 26000;occ; 74; 0;36200
 10; 709.7; 01-FEB-2009 00:34:58; Dark ; 30.0; 159; Ups Car ; 2.92; 7200;occ; 60; 0;36200
 11; 824.5; 01-FEB-2009 00:36:53; Dark ; 30.5; 71; Iot Car ; 2.25; 7700;occ; 61; 0;36200
 12; 929.0; 01-FEB-2009 00:38:38; Dark ; 30.0; 46; Del Vel ; 1.95; 10600;occ; 60; 0;36200
 13; 1080.5; 01-FEB-2009 00:41:09; Dark ; 29.5; 34; Gam2Vel ; 1.79; 23000;occ; 59; 0;36200
 14; 1205.6; 01-FEB-2009 00:43:14; Dark ; 29.5; 70; Zet Pup ; 2.25; 39000;occ; 59; 0;36200
 15; 1413.0; 01-FEB-2009 00:46:42; Dark ; 28.0; 88; 31Eta CMa ; 2.45; 20000;occ; 56; 0;36200
 16; 1993.6; 01-FEB-2009 00:56:22; Dark ; 29.5; 8; 10Alp CMi ; 0.40; 6500;occ; 59; 0;36200
 17; 2199.5; 01-FEB-2009 00:59:48; Bright; 29.5; 44; 24Gam Gem ; 1.93; 11000;occ; 59; 0;36200
 18; 2341.7; 01-FEB-2009 01:02:10; Bright; 29.0; 170; 27Eps Gem ; 3.00; 9700;occ; 58; 0;36200
 19; 2455.3; 01-FEB-2009 01:04:04; Bright; 32.0; 24; 66Alp Gem ; 1.58; 10200;occ; 64; 0;36200
 20; 3427.8; 01-FEB-2009 01:20:16; Bright; 27.5; 49; 1Alp UMi ; 1.99; 6300;occ; 55; 0;36200
 21; 3612.4; 01-FEB-2009 01:23:21; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;36200
 22; 3895.5; 01-FEB-2009 01:28:04; Bright; 28.5; 119; 14Eta Dra ; 2.73; 4700;occ; 57; 0;36200
 23; 4087.5; 01-FEB-2009 01:31:16; Bright; 25.5; 130; 23Bet Dra ; 2.80; 5800;occ; 51; 0;36200
 24; 4305.5; 01-FEB-2009 01:34:54; Bright; 24.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 48; 0;36200
 25; 4798.6; 01-FEB-2009 01:43:07; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;36200
 26; 4926.5; 01-FEB-2009 01:45:15; Bright; 26.0; 126; 60Bet Oph ; 2.77; 4250;occ; 52; 0;36200

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090201_015145_000041742076_00074_36200_7321.N1

1; -719.6; 01-FEB-2009 01:51:45; Dark ; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;36200
 2; -460.4; 01-FEB-2009 01:56:04; Dark ; 32.5; 16; 21Alp Sco ; 1.02; 3000;occ; 65; 0;36200
 3; -329.2; 01-FEB-2009 01:58:15; Dark ; 28.0; 40; The Sco ; 1.86; 7100;occ; 56; 0;36200
 4; -112.5; 01-FEB-2009 02:01:52; Dark ; 34.5; 131; Gam Lup ; 2.80; 26000;occ; 69; 0;36200
 5; 110.0; 01-FEB-2009 02:05:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36201
 6; 197.5; 01-FEB-2009 02:07:02; Dark ; 32.0; 4; Alp1Cen ;-0.01; 5800;occ; 64; 0;36201
 7; 315.1; 01-FEB-2009 02:09:00; Dark ; 34.5; 77; Eps Cen ; 2.30; 28000;occ; 69; 0;36201
 8; 473.4; 01-FEB-2009 02:11:38; Dark ; 31.5; 12; Alp1Cru ; 0.77; 30000;occ; 63; 0;36201
 9; 595.4; 01-FEB-2009 02:13:40; Dark ; 36.0; 99; Del Cen ; 2.58; 26000;occ; 72; 0;36201
 10; 710.2; 01-FEB-2009 02:15:35; Dark ; 29.0; 159; Ups Car ; 2.92; 7200;occ; 58; 0;36201
 11; 825.1; 01-FEB-2009 02:17:30; Dark ; 29.0; 71; Iot Car ; 2.25; 7700;occ; 58; 0;36201
 12; 929.7; 01-FEB-2009 02:19:14; Dark ; 29.0; 46; Del Vel ; 1.95; 10600;occ; 58; 0;36201
 13; 1081.2; 01-FEB-2009 02:21:46; Dark ; 28.5; 34; Gam2Vel ; 1.79; 23000;occ; 57; 0;36201
 14; 1206.1; 01-FEB-2009 02:23:51; Dark ; 28.5; 70; Zet Pup ; 2.25; 39000;occ; 57; 0;36201
 15; 1412.9; 01-FEB-2009 02:27:17; Dark ; 28.0; 88; 31Eta CMa ; 2.45; 20000;occ; 56; 0;36201
 16; 1993.0; 01-FEB-2009 02:36:58; Dark ; 29.5; 8; 10Alp CMi ; 0.40; 6500;occ; 59; 0;36201
 17; 2200.4; 01-FEB-2009 02:40:25; Bright; 28.5; 44; 24Gam Gem ; 1.93; 11000;occ; 57; 0;36201
 18; 2342.2; 01-FEB-2009 02:42:47; Bright; 28.5; 170; 27Eps Gem ; 3.00; 9700;occ; 57; 0;36201
 19; 2455.6; 01-FEB-2009 02:44:40; Bright; 30.5; 24; 66Alp Gem ; 1.58; 10200;occ; 61; 0;36201
 20; 3427.6; 01-FEB-2009 03:00:52; Bright; 27.0; 49; 1Alp UMi ; 1.99; 6300;occ; 54; 0;36201

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1; -2423.2; 01-FEB-2009 03:03:57; Bright; 28.5; 60; 7Bet UMi ; 2.08; 3950;occ; 57; 0;36201
 2; -2140.3; 01-FEB-2009 03:08:40; Bright; 27.0; 119; 14Eta Dra ; 2.73; 4700;occ; 54; 0;36201
 3; -1948.9; 01-FEB-2009 03:11:52; Bright; 25.0; 130; 23Bet Dra ; 2.80; 5800;occ; 50; 0;36201
 4; -1730.4; 01-FEB-2009 03:15:30; Bright; 23.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 46; 0;36201
 5; -1236.6; 01-FEB-2009 03:23:44; Bright; 24.5; 59; 55Alp Oph ; 2.08; 8900;occ; 49; 0;36201
 6; -1109.1; 01-FEB-2009 03:25:51; Bright; 25.5; 126; 60Bet Oph ; 2.77; 4250;occ; 51; 0;36201
 7; -719.4; 01-FEB-2009 03:32:21; Dark ; 28.0; 86; 35Eta Oph ; 2.43; 10200;occ; 56; 0;36201
 8; -459.7; 01-FEB-2009 03:36:41; Dark ; 31.5; 16; 21Alp Sco ; 1.02; 3000;occ; 63; 0;36201
 9; -328.8; 01-FEB-2009 03:38:52; Dark ; 27.0; 40; The Sco ; 1.86; 7100;occ; 54; 0;36201
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 3; 2454.0; 02-FEB-2009 08:55:26; Bright; 18.0; 24; 66Alp Gem ; 1.58; 10200;occ; 36; 0;36219
 4; 3428.5; 02-FEB-2009 09:11:40; Bright; 14.5; 49; 1Alp UMi ; 1.99; 6300;occ; 29; 0;36219
 5; 3607.6; 02-FEB-2009 09:14:39; Bright; 16.0; 60; 7Bet UMi ; 2.08; 3950;occ; 32; 0;36219
 6; 3892.6; 02-FEB-2009 09:19:24; Bright; 14.0; 119; 14Eta Dra ; 2.73; 4700;occ; 28; 0;36219
 7; 4086.4; 02-FEB-2009 09:22:38; Bright; 13.0; 130; 23Bet Dra ; 2.80; 5800;occ; 26; 0;36219
 8; 4307.7; 02-FEB-2009 09:26:19; Bright; 12.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 24; 0;36219
 9; 4804.4; 02-FEB-2009 09:34:36; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36219
 10; 4933.3; 02-FEB-2009 09:36:45; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36219
 11; 5326.0; 02-FEB-2009 09:43:18; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36219
 12; 5589.2; 02-FEB-2009 09:47:41; Dark ; 19.0; 16; 21Alp Sco ; 1.02; 3000;occ; 38; 0;36219
 13; 5712.6; 02-FEB-2009 09:49:44; Dark ; 16.5; 40; The Sco ; 1.86; 7100;occ; 33; 0;36219
 14; 5825.2; 02-FEB-2009 09:51:37; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36219
 15; 5939.1; 02-FEB-2009 09:53:31; Dark ; 20.5; 131; Gam Lup ; 2.80; 26000;occ; 41; 0;36219
 16; 6075.5; 02-FEB-2009 09:55:47; Dark ; 21.5; 109; Bet Lup ; 2.68; 26000;occ; 43; 0;36219
 17; 6244.0; 02-FEB-2009 09:58:36; Dark ; 19.0; 4; Alp1Cen ; -0.01; 5800;occ; 38; 0;36219
 18; 6317.2; 02-FEB-2009 09:59:49; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36219
 19; 6519.6; 02-FEB-2009 10:03:11; Dark ; 18.5; 12; Alp1Cru ; 0.77; 30000;occ; 37; 0;36219
 20; 6646.0; 02-FEB-2009 10:05:18; Dark ; 21.0; 99; Del Cen ; 2.58; 26000;occ; 42; 0;36219
 21; 6752.4; 02-FEB-2009 10:07:04; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36219
 22; 6867.3; 02-FEB-2009 10:08:59; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36219
 23; 6971.3; 02-FEB-2009 10:10:43; Dark ; 17.0; 46; Del Vel ; 1.95; 10600;occ; 34; 0;36219
 24; 7121.8; 02-FEB-2009 10:13:13; Dark ; 16.0; 34; Gam2Vel ; 1.79; 23000;occ; 32; 0;36219
 25; 7246.7; 02-FEB-2009 10:15:18; Dark ; 16.0; 70; Zet Pup ; 2.25; 39000;occ; 32; 0;36219
 26; 7452.5; 02-FEB-2009 10:18:44; Dark ; 15.5; 88; 31Eta CMa ; 2.45; 20000;occ; 31; 0;36219

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 2; 2344.6; 02-FEB-2009 10:34:12; Bright; 17.0; 170; 27Eps Gem ; 3.00; 9700;occ; 34; 0;36220
 3; 2454.1; 02-FEB-2009 10:36:02; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36220
 4; 3427.8; 02-FEB-2009 10:52:15; Bright; 15.5; 49; 1Alp UMi ; 1.99; 6300;occ; 31; 0;36220
 5; 3607.7; 02-FEB-2009 10:55:15; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;36220
 6; 3892.5; 02-FEB-2009 11:00:00; Bright; 14.0; 119; 14Eta Dra ; 2.73; 4700;occ; 28; 0;36220
 7; 4086.4; 02-FEB-2009 11:03:14; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36220
 8; 4308.0; 02-FEB-2009 11:06:55; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36220
 9; 4804.6; 02-FEB-2009 11:15:12; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36220
 10; 4933.4; 02-FEB-2009 11:17:21; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36220
 11; 5326.5; 02-FEB-2009 11:23:54; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36220
 12; 5483.0; 02-FEB-2009 11:26:30; Dark ; 15.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 30; 0;36220
 13; 5589.8; 02-FEB-2009 11:28:17; Dark ; 19.0; 16; 21Alp Sco ; 1.02; 3000;occ; 38; 0;36220
 14; 5713.0; 02-FEB-2009 11:30:21; Dark ; 16.0; 40; The Sco ; 1.86; 7100;occ; 32; 0;36220
 15; 5825.5; 02-FEB-2009 11:32:13; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36220
 16; 6007.1; 02-FEB-2009 11:35:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36220
 17; 6244.5; 02-FEB-2009 11:39:12; Dark ; 19.0; 4; Alp1Cen ; -0.01; 5800;occ; 38; 0;36220
 18; 6317.7; 02-FEB-2009 11:40:25; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36220
 19; 6519.9; 02-FEB-2009 11:43:47; Dark ; 18.5; 12; Alp1Cru ; 0.77; 30000;occ; 37; 0;36220
 20; 6647.0; 02-FEB-2009 11:45:55; Dark ; 21.0; 99; Del Cen ; 2.58; 26000;occ; 42; 0;36220
 21; 6752.8; 02-FEB-2009 11:47:40; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36220
 22; 6867.6; 02-FEB-2009 11:49:35; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36220
 23; 6971.6; 02-FEB-2009 11:51:19; Dark ; 17.0; 46; Del Vel ; 1.95; 10600;occ; 34; 0;36220
 24; 7121.9; 02-FEB-2009 11:53:49; Dark ; 16.5; 34; Gam2Vel ; 1.79; 23000;occ; 33; 0;36220
 25; 7247.0; 02-FEB-2009 11:55:54; Dark ; 16.0; 70; Zet Pup ; 2.25; 39000;occ; 32; 0;36220
 26; 7452.8; 02-FEB-2009 11:59:20; Dark ; 15.0; 88; 31Eta CMa ; 2.45; 20000;occ; 30; 0;36220

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 2; 2344.9; 02-FEB-2009 12:14:48; Bright; 17.0; 170; 27Eps Gem ; 3.00; 9700;occ; 34; 0;36221
 3; 2454.0; 02-FEB-2009 12:16:37; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36221
 4; 3428.3; 02-FEB-2009 12:32:52; Bright; 15.0; 49; 1Alp UMi ; 1.99; 6300;occ; 30; 0;36221
 5; 3607.5; 02-FEB-2009 12:35:51; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;36221

6; 3892.0; 02-FEB-2009 12:40:35; Bright; 14.5; 119; 14Eta Dra ; 2.73; 4700;occ; 29; 0;36221
7; 4086.7; 02-FEB-2009 12:43:50; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36221
8; 4308.3; 02-FEB-2009 12:47:32; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36221
9; 4804.9; 02-FEB-2009 12:55:48; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36221
10; 4933.7; 02-FEB-2009 12:57:57; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36221
11; 5327.0; 02-FEB-2009 13:04:30; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36221
12; 5483.6; 02-FEB-2009 13:07:07; Dark ; 14.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 29; 0;36221
13; 5590.8; 02-FEB-2009 13:08:54; Dark ; 18.5; 16; 21Alp Sco ; 1.02; 3000;occ; 37; 0;36221
14; 5713.3; 02-FEB-2009 13:10:57; Dark ; 16.0; 40; The Sco ; 1.86; 7100;occ; 32; 0;36221
15; 5825.9; 02-FEB-2009 13:12:49; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36221
16; 6007.5; 02-FEB-2009 13:15:51; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;36221
17; 6160.7; 02-FEB-2009 13:18:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36221
18; 6245.2; 02-FEB-2009 13:19:49; Dark ; 19.0; 4; Alp1Cen ;-0.01; 5800;occ; 38; 0;36221
19; 6318.6; 02-FEB-2009 13:21:02; Dark ; 18.5; 10; Bet Cen ; 0.61; 28000;occ; 37; 0;36221
20; 6520.7; 02-FEB-2009 13:24:24; Dark ; 18.5; 12; Alp1Cru ; 0.77; 30000;occ; 37; 0;36221
21; 6647.8; 02-FEB-2009 13:26:31; Dark ; 21.0; 99; Del Cen ; 2.58; 26000;occ; 42; 0;36221
22; 6753.2; 02-FEB-2009 13:28:17; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36221
23; 6868.0; 02-FEB-2009 13:30:11; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36221
24; 6972.0; 02-FEB-2009 13:31:55; Dark ; 16.5; 46; Del Vel ; 1.95; 10600;occ; 33; 0;36221
25; 7122.1; 02-FEB-2009 13:34:25; Dark ; 16.5; 34; Gam2Vel ; 1.79; 23000;occ; 33; 0;36221
26; 7247.0; 02-FEB-2009 13:36:30; Dark ; 16.5; 70; Zet Pup ; 2.25; 39000;occ; 33; 0;36221
27; 7452.8; 02-FEB-2009 13:39:56; Dark ; 15.5; 88; 31Eta CMa ; 2.45; 20000;occ; 31; 0;36221

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2; 2345.3; 02-FEB-2009 13:55:25; Bright; 16.5; 170; 27Eps Gem ; 3.00; 9700;occ; 33; 0;36222
3; 2454.0; 02-FEB-2009 13:57:13; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36222
4; 3428.3; 02-FEB-2009 14:13:28; Bright; 15.0; 49; 1Alp UMi ; 1.99; 6300;occ; 30; 0;36222
5; 3607.0; 02-FEB-2009 14:16:26; Bright; 16.0; 60; 7Bet UMi ; 2.08; 3950;occ; 32; 0;36222
6; 3892.2; 02-FEB-2009 14:21:11; Bright; 14.0; 119; 14Eta Dra ; 2.73; 4700;occ; 28; 0;36222
7; 4086.5; 02-FEB-2009 14:24:26; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36222
8; 4308.4; 02-FEB-2009 14:28:08; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36222
9; 4805.3; 02-FEB-2009 14:36:25; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36222
10; 4934.1; 02-FEB-2009 14:38:33; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36222
11; 5327.9; 02-FEB-2009 14:45:07; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36222
12; 5483.5; 02-FEB-2009 14:47:43; Dark ; 15.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 30; 0;36222
13; 5591.6; 02-FEB-2009 14:49:31; Dark ; 19.0; 16; 21Alp Sco ; 1.02; 3000;occ; 38; 0;36222
14; 5713.7; 02-FEB-2009 14:51:33; Dark ; 16.5; 40; The Sco ; 1.86; 7100;occ; 33; 0;36222
15; 5826.2; 02-FEB-2009 14:53:25; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36222
16; 5941.7; 02-FEB-2009 14:55:21; Dark ; 20.5; 131; Gam Lup ; 2.80; 26000;occ; 41; 0;36222
17; 6078.4; 02-FEB-2009 14:57:38; Dark ; 21.5; 109; Bet Lup ; 2.68; 26000;occ; 43; 0;36222
18; 6161.5; 02-FEB-2009 14:59:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36222
19; 6245.8; 02-FEB-2009 15:00:25; Dark ; 19.0; 4; Alp1Cen ;-0.01; 5800;occ; 38; 0;36222
20; 6319.1; 02-FEB-2009 15:01:38; Dark ; 18.5; 10; Bet Cen ; 0.61; 28000;occ; 37; 0;36222
21; 6520.8; 02-FEB-2009 15:05:00; Dark ; 18.0; 12; Alp1Cru ; 0.77; 30000;occ; 36; 0;36222
22; 6648.4; 02-FEB-2009 15:07:08; Dark ; 21.0; 99; Del Cen ; 2.58; 26000;occ; 42; 0;36222
23; 6753.4; 02-FEB-2009 15:08:53; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36222
24; 6868.3; 02-FEB-2009 15:10:48; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36222
25; 6972.4; 02-FEB-2009 15:12:32; Dark ; 16.5; 46; Del Vel ; 1.95; 10600;occ; 33; 0;36222
26; 7122.4; 02-FEB-2009 15:15:02; Dark ; 16.0; 34; Gam2Vel ; 1.79; 23000;occ; 32; 0;36222
27; 7247.3; 02-FEB-2009 15:17:07; Dark ; 15.5; 70; Zet Pup ; 2.25; 39000;occ; 31; 0;36222

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2; 1993.6; 02-FEB-2009 15:30:09; Dark ; 16.5; 8; 10Alp CMi ; 0.40; 6500;occ; 33; 0;36223
3; 2345.0; 02-FEB-2009 15:36:00; Bright; 16.5; 170; 27Eps Gem ; 3.00; 9700;occ; 33; 0;36223
4; 2453.8; 02-FEB-2009 15:37:49; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36223
5; 3428.5; 02-FEB-2009 15:54:04; Bright; 14.5; 49; 1Alp UMi ; 1.99; 6300;occ; 29; 0;36223
6; 3606.6; 02-FEB-2009 15:57:02; Bright; 16.0; 60; 7Bet UMi ; 2.08; 3950;occ; 32; 0;36223
7; 3892.2; 02-FEB-2009 16:01:47; Bright; 13.5; 119; 14Eta Dra ; 2.73; 4700;occ; 27; 0;36223
8; 4086.4; 02-FEB-2009 16:05:02; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36223
9; 4308.4; 02-FEB-2009 16:08:44; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36223
10; 4805.6; 02-FEB-2009 16:17:01; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36223
11; 4934.5; 02-FEB-2009 16:19:10; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36223
12; 5328.5; 02-FEB-2009 16:25:44; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36223
13; 5484.0; 02-FEB-2009 16:28:19; Dark ; 15.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 30; 0;36223
14; 5592.2; 02-FEB-2009 16:30:07; Dark ; 19.0; 16; 21Alp Sco ; 1.02; 3000;occ; 38; 0;36223
15; 5714.2; 02-FEB-2009 16:32:09; Dark ; 16.0; 40; The Sco ; 1.86; 7100;occ; 32; 0;36223
16; 5826.5; 02-FEB-2009 16:34:02; Dark ; 16.0; 147; Alp Ara ; 2.88; 26000;occ; 32; 0;36223
17; 5942.4; 02-FEB-2009 16:35:58; Dark ; 20.0; 131; Gam Lup ; 2.80; 26000;occ; 40; 0;36223

18; 6079.0; 02-FEB-2009 16:38:14; Dark ; 21.5; 109; Bet Lup ; 2.68; 26000;occ; 43; 0;36223
 19; 6246.2; 02-FEB-2009 16:41:01; Dark ; 18.5; 4; Alp1Cen ;-0.01; 5800;occ; 37; 0;36223
 20; 6319.6; 02-FEB-2009 16:42:15; Dark ; 18.5; 10; Bet Cen ; 0.61; 28000;occ; 37; 0;36223
 21; 6521.4; 02-FEB-2009 16:45:37; Dark ; 18.0; 12; Alp1Cru ; 0.77; 30000;occ; 36; 0;36223
 22; 6649.3; 02-FEB-2009 16:47:45; Dark ; 20.5; 99; Del Cen ; 2.58; 26000;occ; 41; 0;36223
 23; 6753.7; 02-FEB-2009 16:49:29; Dark ; 16.5; 159; Ups Car ; 2.92; 7200;occ; 33; 0;36223
 24; 6868.5; 02-FEB-2009 16:51:24; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36223
 25; 6972.6; 02-FEB-2009 16:53:08; Dark ; 16.0; 46; Del Vel ; 1.95; 10600;occ; 32; 0;36223
 26; 7122.8; 02-FEB-2009 16:55:38; Dark ; 16.0; 34; Gam2Vel ; 1.79; 23000;occ; 32; 0;36223
 27; 7247.8; 02-FEB-2009 16:57:43; Dark ; 15.0; 70; Zet Pup ; 2.25; 39000;occ; 30; 0;36223

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 2; -550.6; 03-FEB-2009 00:51:20; Dark ; 14.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 29; 0;36228
 3; -439.8; 03-FEB-2009 00:53:11; Dark ; 18.5; 16; 21Alp Sco ; 1.02; 3000;occ; 37; 0;36228
 4; -320.4; 03-FEB-2009 00:55:10; Dark ; 16.0; 40; The Sco ; 1.86; 7100;occ; 32; 0;36228
 5; -208.0; 03-FEB-2009 00:57:03; Dark ; 16.0; 147; Alp Ara ; 2.88; 26000;occ; 32; 0;36228
 6; -25.6; 03-FEB-2009 01:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36228
 7; 213.0; 03-FEB-2009 01:04:04; Dark ; 18.5; 4; Alp1Cen ;-0.01; 5800;occ; 37; 0;36229
 8; 286.3; 03-FEB-2009 01:05:17; Dark ; 18.5; 10; Bet Cen ; 0.61; 28000;occ; 37; 0;36229
 9; 487.9; 03-FEB-2009 01:08:39; Dark ; 18.5; 12; Alp1Cru ; 0.77; 30000;occ; 37; 0;36229
 10; 617.0; 03-FEB-2009 01:10:48; Dark ; 20.5; 99; Del Cen ; 2.58; 26000;occ; 41; 0;36229
 11; 719.2; 03-FEB-2009 01:12:30; Dark ; 16.5; 159; Ups Car ; 2.92; 7200;occ; 33; 0;36229
 12; 834.1; 03-FEB-2009 01:14:25; Dark ; 16.5; 71; Iot Car ; 2.25; 7700;occ; 33; 0;36229
 13; 937.9; 03-FEB-2009 01:16:09; Dark ; 16.0; 46; Del Vel ; 1.95; 10600;occ; 32; 0;36229
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 15; 1212.6; 03-FEB-2009 01:20:43; Dark ; 15.5; 70; Zet Pup ; 2.25; 39000;occ; 31; 0;36229
 16; 1418.1; 03-FEB-2009 01:24:09; Dark ; 15.5; 88; 31Eta CMa ; 2.45; 20000;occ; 31; 0;36229
 17; 1993.8; 03-FEB-2009 01:33:45; Dark ; 16.5; 8; 10Alp CMi ; 0.40; 6500;occ; 33; 0;36229
 18; 2345.5; 03-FEB-2009 01:39:36; Bright; 16.5; 170; 27Eps Gem ; 3.00; 9700;occ; 33; 0;36229
 19; 2452.8; 03-FEB-2009 01:41:24; Bright; 17.0; 24; 66Alp Gem ; 1.58; 10200;occ; 34; 0;36229
 20; 3428.1; 03-FEB-2009 01:57:39; Bright; 14.5; 49; 1Alp UMi ; 1.99; 6300;occ; 29; 0;36229
 21; 3605.2; 03-FEB-2009 02:00:36; Bright; 15.0; 60; 7Bet UMi ; 2.08; 3950;occ; 30; 0;36229
 22; 3890.6; 03-FEB-2009 02:05:21; Bright; 13.5; 119; 14Eta Dra ; 2.73; 4700;occ; 27; 0;36229
 23; 4086.7; 03-FEB-2009 02:08:38; Bright; 11.5; 130; 23Bet Dra ; 2.80; 5800;occ; 23; 0;36229
 24; 4309.6; 03-FEB-2009 02:12:20; Bright; 10.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 21; 0;36229
 25; 4808.0; 03-FEB-2009 02:20:39; Bright; 11.5; 59; 55Alp Oph ; 2.08; 8900;occ; 23; 0;36229
 26; 4936.5; 03-FEB-2009 02:22:47; Bright; 12.0; 126; 60Bet Oph ; 2.77; 4250;occ; 24; 0;36229

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19; 6378.4; 09-FEB-2009 11:21:20; Dark ; 17.5; 10; Bet Cen ; 0.61; 28000;occ; 35; 0;36320
20; 6572.1; 09-FEB-2009 11:24:33; Dark ; 16.5; 12; Alp1Cru ; 0.77; 30000;occ; 33; 0;36320
21; 6721.2; 09-FEB-2009 11:27:03; Dark ; 18.5; 99; Del Cen ; 2.58; 26000;occ; 37; 0;36320
22; 6896.6; 09-FEB-2009 11:29:58; Dark ; 15.0; 71; Iot Car ; 2.25; 7700;occ; 30; 0;36320
23; 6996.9; 09-FEB-2009 11:31:38; Dark ; 15.0; 46; Del Vel ; 1.95; 10600;occ; 30; 0;36320
24; 7156.0; 09-FEB-2009 11:34:17; Dark ; 15.0; 65; Lam Vel ; 2.20; 4400;occ; 30; 0;36320
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