

# GOMOS Daily Report 12-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	27FEB2009 14:07:30
Data source version	GOMOS/5.00
Start time of products	12FEB2009 04:43:47
Stop time of products	12FEB2009 19:23:17
Store outputs in DB	Yes
Nb of level 1b prods	10
Nb of prods with errors	2

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

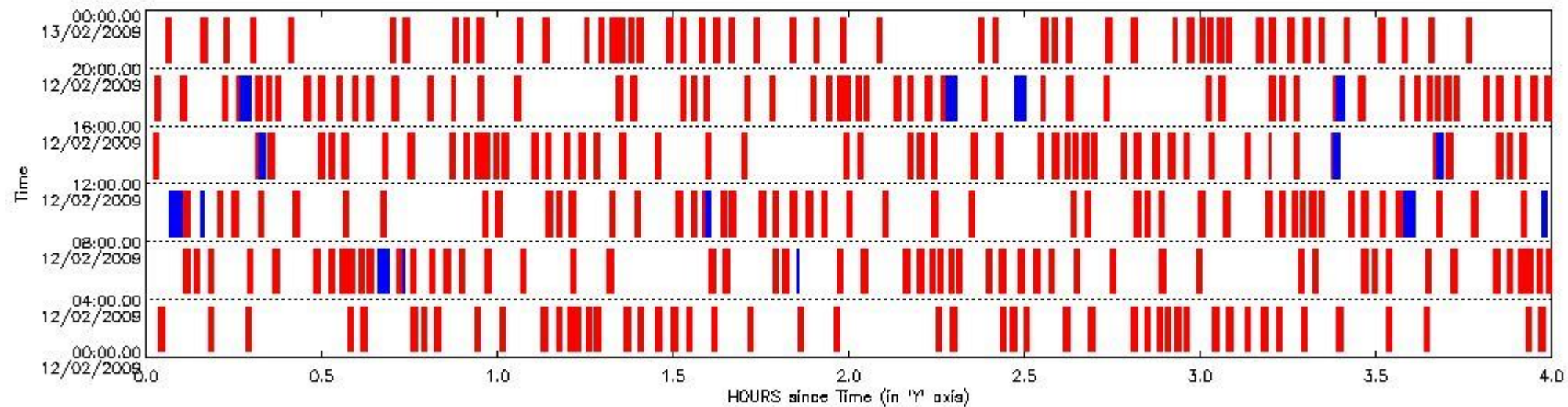
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
12-FEB-2009 00:02:08	15RhoPup	132	36357
12-FEB-2009 00:10:37	10AlpCMi	8	36357
12-FEB-2009 00:16:57	78BetGem	17	36357
12-FEB-2009 00:34:22	1AlpUMi	49	36357
12-FEB-2009 00:36:42	7BetUMi	60	36357
12-FEB-2009 00:45:11	23BetDra	130	36357
12-FEB-2009 00:46:58	18DelCyg	144	36357
12-FEB-2009 00:49:16	3AlpLyr	5	36357
12-FEB-2009 00:56:06	17ZetAql	168	36357
12-FEB-2009 01:00:20	60BetOph	126	36357
12-FEB-2009 01:07:27	35EtaOph	86	36357
12-FEB-2009 01:09:59	20EpsSgr	38	36357
12-FEB-2009 01:11:59	35LamSco	25	36357
12-FEB-2009 01:13:18	TheSco	40	36357
12-FEB-2009 01:15:06	AlpAra	147	36357

12-FEB-2009 01:16:35	BetAra	141	36357
12-FEB-2009 01:21:33	DSA1027	0	36358
12-FEB-2009 01:23:53	BetCen	10	36358
12-FEB-2009 01:27:03	Alp1Cru	12	36358
12-FEB-2009 01:29:39	DelCen	99	36358
12-FEB-2009 01:32:18	lotCar	71	36358
12-FEB-2009 01:36:38	LamVel	65	36358
12-FEB-2009 01:42:44	15RhoPup	132	36358
12-FEB-2009 01:51:13	10AlpCMi	8	36358
12-FEB-2009 01:57:33	78BetGem	17	36358
12-FEB-2009 02:14:58	1AlpUMi	49	36358
12-FEB-2009 02:17:18	7BetUMi	60	36358
12-FEB-2009 02:25:47	23BetDra	130	36358
12-FEB-2009 02:27:34	18DelCyg	144	36358
12-FEB-2009 02:29:52	3AlpLyr	5	36358
12-FEB-2009 02:36:42	17ZetAql	168	36358
12-FEB-2009 02:40:56	60BetOph	126	36358
12-FEB-2009 02:48:03	35EtaOph	86	36358
12-FEB-2009 02:50:35	20EpsSgr	38	36358
12-FEB-2009 02:52:35	35LamSco	25	36358
12-FEB-2009 02:53:55	TheSco	40	36358
12-FEB-2009 02:55:42	AlpAra	147	36358
12-FEB-2009 02:57:11	BetAra	141	36358
12-FEB-2009 03:02:10	DSA1027	0	36359
12-FEB-2009 03:04:30	BetCen	10	36359
12-FEB-2009 03:07:39	Alp1Cru	12	36359
12-FEB-2009 03:10:16	DelCen	99	36359
12-FEB-2009 03:12:55	lotCar	71	36359
12-FEB-2009 03:17:14	LamVel	65	36359
12-FEB-2009 03:23:20	15RhoPup	132	36359
12-FEB-2009 03:31:49	10AlpCMi	8	36359
12-FEB-2009 03:38:09	78BetGem	17	36359
12-FEB-2009 03:55:34	1AlpUMi	49	36359
12-FEB-2009 03:57:53	7BetUMi	60	36359
12-FEB-2009 04:06:23	23BetDra	130	36359
12-FEB-2009 04:08:10	18DelCyg	144	36359
12-FEB-2009 04:10:28	3AlpLyr	5	36359
12-FEB-2009 04:17:18	17ZetAql	168	36359
12-FEB-2009 04:21:32	60BetOph	126	36359
12-FEB-2009 04:28:40	35EtaOph	86	36359
12-FEB-2009 04:31:12	20EpsSgr	38	36359
12-FEB-2009 04:33:12	35LamSco	25	36359
12-FEB-2009 04:34:31	TheSco	40	36359
12-FEB-2009 04:36:19	AlpAra	147	36359
12-FEB-2009 04:37:47	BetAra	141	36359
12-FEB-2009 04:42:47	DSA1027	0	36360
12-FEB-2009 04:45:06	BetCen	10	36360
12-FEB-2009 04:48:16	Alp1Cru	12	36360
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12-FEB-2009 04:53:31	lotCar	71	36360
12-FEB-2009 04:57:51	LamVel	65	36360
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12-FEB-2009 05:12:25	10AlpCMi	8	36360
12-FEB-2009 05:18:45	78BetGem	17	36360
12-FEB-2009 05:36:10	1AlpUMi	49	36360
12-FEB-2009 05:38:29	7BetUMi	60	36360
12-FEB-2009 05:46:58	23BetDra	130	36360
12-FEB-2009 05:48:46	18DelCyg	144	36360
12-FEB-2009 05:57:54	17ZetAql	168	36360

12-FEB-2009 06:02:09	60BetOph	126	36360
12-FEB-2009 06:09:17	35EtaOph	86	36360
12-FEB-2009 06:11:48	20EpsSgr	38	36360
12-FEB-2009 06:13:48	35LamSco	25	36360
12-FEB-2009 06:15:07	TheSco	40	36360
12-FEB-2009 06:16:55	AlpAra	147	36360
12-FEB-2009 06:18:24	BetAra	141	36360
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12-FEB-2009 06:25:43	BetCen	10	36361
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12-FEB-2009 06:31:29	DelCen	99	36361
12-FEB-2009 06:34:07	lotCar	71	36361
12-FEB-2009 06:38:27	LamVel	65	36361
12-FEB-2009 06:44:32	15RhoPup	132	36361
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12-FEB-2009 06:59:21	78BetGem	17	36361
12-FEB-2009 07:16:46	1AlpUMi	49	36361
12-FEB-2009 07:19:04	7BetUMi	60	36361
12-FEB-2009 07:27:34	23BetDra	130	36361
12-FEB-2009 07:29:22	18DelCyg	144	36361
12-FEB-2009 07:31:40	3AlpLyr	5	36361
12-FEB-2009 07:38:30	17ZetAql	168	36361
12-FEB-2009 07:42:45	60BetOph	126	36361
12-FEB-2009 07:49:53	35EtaOph	86	36361
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12-FEB-2009 08:12:05	DelCen	99	36362
12-FEB-2009 08:14:43	lotCar	71	36362
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12-FEB-2009 08:25:09	15RhoPup	132	36362
12-FEB-2009 08:33:37	10AlpCMi	8	36362
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12-FEB-2009 09:08:10	23BetDra	130	36362
12-FEB-2009 09:09:58	18DelCyg	144	36362
12-FEB-2009 09:12:16	3AlpLyr	5	36362
12-FEB-2009 09:19:07	17ZetAql	168	36362
12-FEB-2009 09:23:22	60BetOph	126	36362
12-FEB-2009 09:30:30	35EtaOph	86	36362
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12-FEB-2009 09:44:37	DSA1027	0	36363
12-FEB-2009 09:46:56	BetCen	10	36363
12-FEB-2009 09:50:05	Alp1Cru	12	36363
12-FEB-2009 09:52:42	DelCen	99	36363
12-FEB-2009 09:55:19	lotCar	71	36363
12-FEB-2009 09:59:39	LamVel	65	36363
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12-FEB-2009 10:20:33	78BetGem	17	36363
12-FEB-2009 10:37:58	1AlpUMi	49	36363
12-FEB-2009 10:40:16	7BetUMi	60	36363

12-FEB-2009 10:48:46	23BetDra	130	36363
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12-FEB-2009 10:59:43	17ZetAql	168	36363
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12-FEB-2009 11:40:15	LamVel	65	36364
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12-FEB-2009 12:44:34	60BetOph	126	36364
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12-FEB-2009 13:16:32	lotCar	71	36365
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12-FEB-2009 13:41:45	78BetGem	17	36365
12-FEB-2009 13:59:09	1AlpUMi	49	36365
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12-FEB-2009 14:09:58	23BetDra	130	36365
12-FEB-2009 14:11:47	18DelCyg	144	36365
12-FEB-2009 14:14:04	3AlpLyr	5	36365
12-FEB-2009 14:20:55	17ZetAql	168	36365
12-FEB-2009 14:25:11	60BetOph	126	36365
12-FEB-2009 14:32:20	35EtaOph	86	36365
12-FEB-2009 14:34:49	20EpsSgr	38	36365
12-FEB-2009 14:36:50	35LamSco	25	36365
12-FEB-2009 14:38:09	TheSco	40	36365
12-FEB-2009 14:39:57	AlpAra	147	36365
12-FEB-2009 14:41:25	BetAra	141	36365
12-FEB-2009 14:46:27	DSA1027	0	36366
12-FEB-2009 14:48:45	BetCen	10	36366
12-FEB-2009 14:51:54	Alp1Cru	12	36366
12-FEB-2009 14:54:32	DelCen	99	36366
12-FEB-2009 14:57:08	lotCar	71	36366

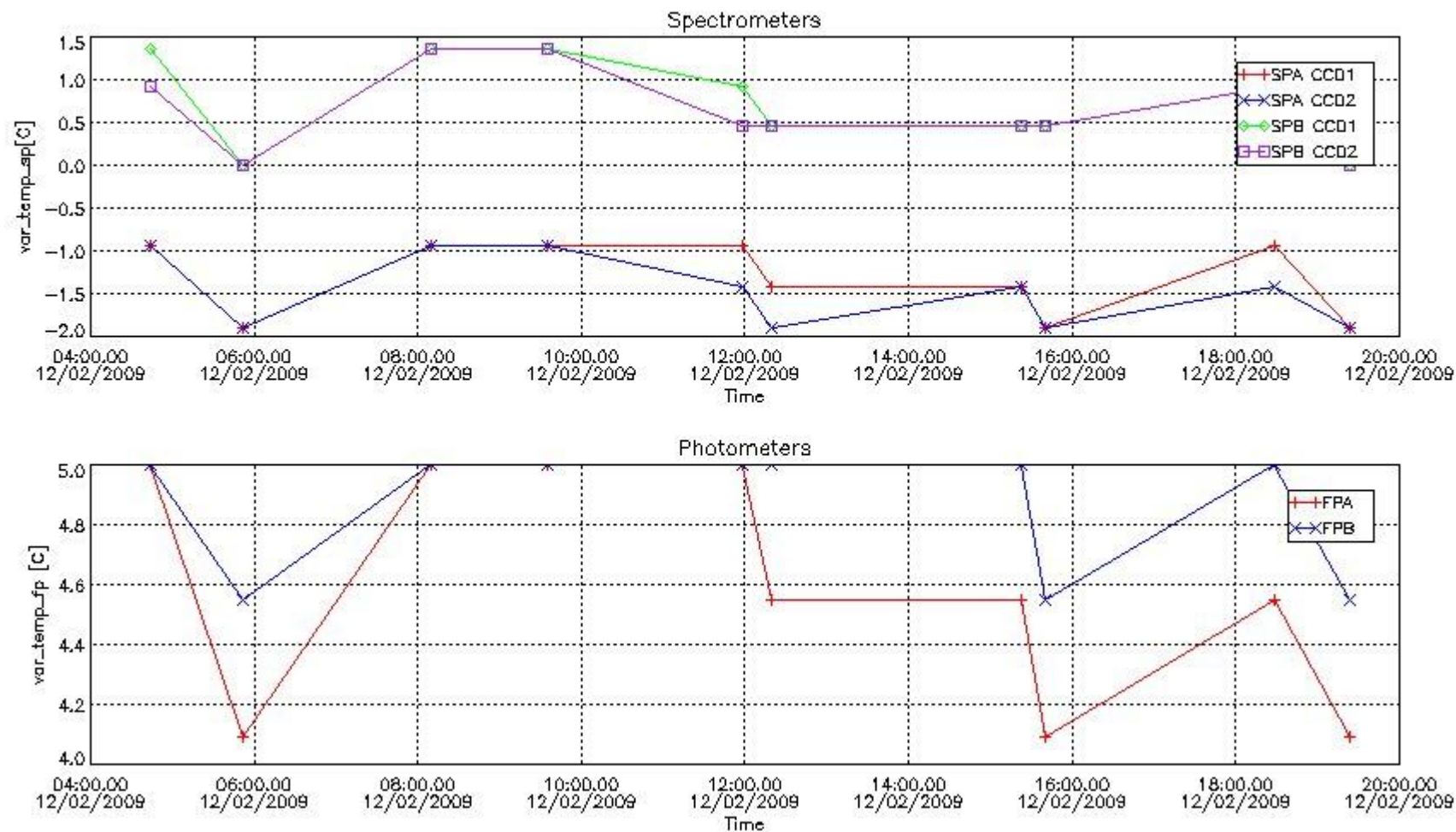
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12-FEB-2009 15:11:34	30AlpHya	48	36366
12-FEB-2009 15:16:01	10AlpCMi	8	36366
12-FEB-2009 15:22:21	78BetGem	17	36366
12-FEB-2009 15:39:45	1AlpUMi	49	36366
12-FEB-2009 15:42:03	7BetUMi	60	36366
12-FEB-2009 15:50:33	23BetDra	130	36366
12-FEB-2009 15:52:23	18DelCyg	144	36366
12-FEB-2009 15:54:40	3AlpLyr	5	36366
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12-FEB-2009 16:05:47	60BetOph	126	36366
12-FEB-2009 16:12:57	35EtaOph	86	36366
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12-FEB-2009 16:20:33	AlpAra	147	36366
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12-FEB-2009 16:27:03	DSA1027	0	36367
12-FEB-2009 16:29:22	BetCen	10	36367
12-FEB-2009 16:32:31	Alp1Cru	12	36367
12-FEB-2009 16:35:08	DelCen	99	36367
12-FEB-2009 16:37:44	lotCar	71	36367
12-FEB-2009 16:42:04	LamVel	65	36367
12-FEB-2009 16:48:09	15RhoPup	132	36367
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12-FEB-2009 16:56:37	10AlpCMi	8	36367
12-FEB-2009 17:02:57	78BetGem	17	36367
12-FEB-2009 17:20:21	1AlpUMi	49	36367
12-FEB-2009 17:22:38	7BetUMi	60	36367
12-FEB-2009 17:31:09	23BetDra	130	36367
12-FEB-2009 17:32:59	18DelCyg	144	36367
12-FEB-2009 17:35:17	3AlpLyr	5	36367
12-FEB-2009 17:42:07	17ZetAql	168	36367
12-FEB-2009 17:46:24	60BetOph	126	36367
12-FEB-2009 17:53:34	35EtaOph	86	36367
12-FEB-2009 17:56:02	20EpsSgr	38	36367
12-FEB-2009 17:58:03	35LamSco	25	36367
12-FEB-2009 17:59:22	TheSco	40	36367
12-FEB-2009 18:01:09	AlpAra	147	36367
12-FEB-2009 18:02:38	BetAra	141	36367
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12-FEB-2009 18:13:07	Alp1Cru	12	36368
12-FEB-2009 18:15:45	DelCen	99	36368
12-FEB-2009 18:22:40	LamVel	65	36368
12-FEB-2009 18:32:46	30AlpHya	48	36368
12-FEB-2009 18:37:13	10AlpCMi	8	36368
12-FEB-2009 18:43:33	78BetGem	17	36368
12-FEB-2009 19:00:57	1AlpUMi	49	36368
12-FEB-2009 19:03:14	7BetUMi	60	36368
12-FEB-2009 19:11:45	23BetDra	130	36368
12-FEB-2009 19:13:35	18DelCyg	144	36368
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12-FEB-2009 19:22:43	17ZetAql	168	36368
12-FEB-2009 19:27:00	60BetOph	126	36368
12-FEB-2009 19:34:10	35EtaOph	86	36368
12-FEB-2009 19:36:38	20EpsSgr	38	36368
12-FEB-2009 19:38:40	35LamSco	25	36368
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12-FEB-2009 19:41:46	AlpAra	147	36368
12-FEB-2009 19:43:14	BetAra	141	36368
12-FEB-2009 19:48:17	DSA1027	0	36369
12-FEB-2009 19:50:35	BetCen	10	36369
12-FEB-2009 19:53:44	Alp1Cru	12	36369
12-FEB-2009 19:56:22	DelCen	99	36369
12-FEB-2009 19:58:56	lotCar	71	36369
12-FEB-2009 20:03:16	LamVel	65	36369
12-FEB-2009 20:09:21	15RhoPup	132	36369
12-FEB-2009 20:13:22	30AlpHya	48	36369
12-FEB-2009 20:17:49	10AlpCMi	8	36369
12-FEB-2009 20:24:09	78BetGem	17	36369
12-FEB-2009 20:41:33	1AlpUMi	49	36369
12-FEB-2009 20:43:50	7BetUMi	60	36369
12-FEB-2009 20:52:21	23BetDra	130	36369
12-FEB-2009 20:54:11	18DelCyg	144	36369
12-FEB-2009 20:56:29	3AlpLyr	5	36369
12-FEB-2009 21:03:20	17ZetAql	168	36369
12-FEB-2009 21:07:36	60BetOph	126	36369
12-FEB-2009 21:14:47	35EtaOph	86	36369
12-FEB-2009 21:17:14	20EpsSgr	38	36369
12-FEB-2009 21:19:16	35LamSco	25	36369
12-FEB-2009 21:20:35	TheSco	40	36369
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12-FEB-2009 22:04:45	78BetGem	17	36370
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12-FEB-2009 22:34:47	18DelCyg	144	36370
12-FEB-2009 22:37:05	3AlpLyr	5	36370
12-FEB-2009 22:43:56	17ZetAql	168	36370
12-FEB-2009 22:48:13	60BetOph	126	36370
12-FEB-2009 22:55:24	35EtaOph	86	36370
12-FEB-2009 22:57:50	20EpsSgr	38	36370
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12-FEB-2009 23:02:58	AlpAra	147	36370
12-FEB-2009 23:04:27	BetAra	141	36370
12-FEB-2009 23:09:30	DSA1027	0	36371
12-FEB-2009 23:11:48	BetCen	10	36371
12-FEB-2009 23:14:56	Alp1Cru	12	36371
12-FEB-2009 23:17:35	DelCen	99	36371
12-FEB-2009 23:20:09	lotCar	71	36371
12-FEB-2009 23:24:29	LamVel	65	36371
12-FEB-2009 23:30:33	15RhoPup	132	36371
12-FEB-2009 23:34:34	30AlpHya	48	36371
12-FEB-2009 23:39:02	10AlpCMi	8	36371
12-FEB-2009 23:45:21	78BetGem	17	36371

## 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_1PNPDE20090212_044347_000000242076_00234_36360_4147.N1	12-FEB-2009 04:43:47	Dark	24.000	4	Alp1Cen	-0.010000	5800.0	48	36360	No
2	GOM_TRA_1PNPDE20090212_055103_000000172076_00234_36360_4371.N1	12-FEB-2009 05:51:03	Twilight_stray	17.000	5	3Alp Lyr	0.033000	11000.	34	36360	No
3	GOM_TRA_1PNPDK20090212_080923_000000332076_00236_36362_0794.N1	12-FEB-2009 08:09:23	Dark	32.500	20	Bet Cru	1.2530	30000.	65	36362	Yes
4	GOM_TRA_1PNPDK20090212_093523_000000542076_00236_36362_0891.N1	12-FEB-2009 09:35:23	Dark	53.500	16	21Alp Sco	1.0200	3000.0	107	36362	No
5	GOM_TRA_1PNPDK20090212_115811_000000592076_00238_36364_1161.N1	12-FEB-2009 11:58:11	Bright	59.000	22	32Alp Leo	1.3600	15200.	118	36364	No
6	GOM_TRA_1PNPDK20090212_121918_000000542076_00238_36364_1162.N1	12-FEB-2009 12:19:18	Bright	54.000	32	77Eps UMa	1.7630	11000.	108	36364	No
7	GOM_TRA_1PNPDK20090212_152243_000000582076_00240_36366_1440.N1	12-FEB-2009 15:22:43	Bright	57.500	51	41Gam1Leo	2.0100	4500.0	115	36366	No
8	GOM_TRA_1PNPDK20090212_154028_000000552076_00240_36366_1441.N1	12-FEB-2009 15:40:28	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	36366	No
9	GOM_TRA_1PNPDK20090212_182816_000001082076_00242_36368_1676.N1	12-FEB-2009 18:28:16	Straylight	108.00	100	4Gam Crv	2.5800	13100.	216	36368	No
10	GOM_TRA_1PNPDK20090212_192317_000000702076_00242_36368_1677.N1	12-FEB-2009 19:23:17	Twilight_stray	70.000	67	5Alp CrB	2.2210	11000.	140	36368	Yes

## 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).

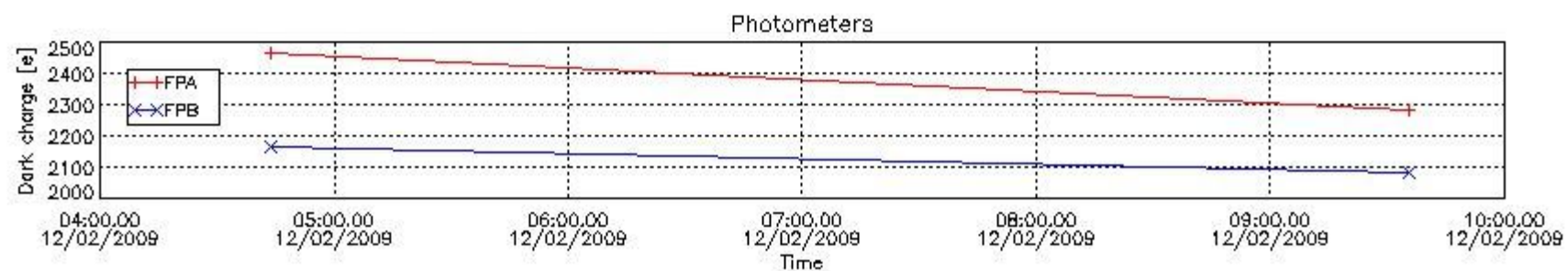
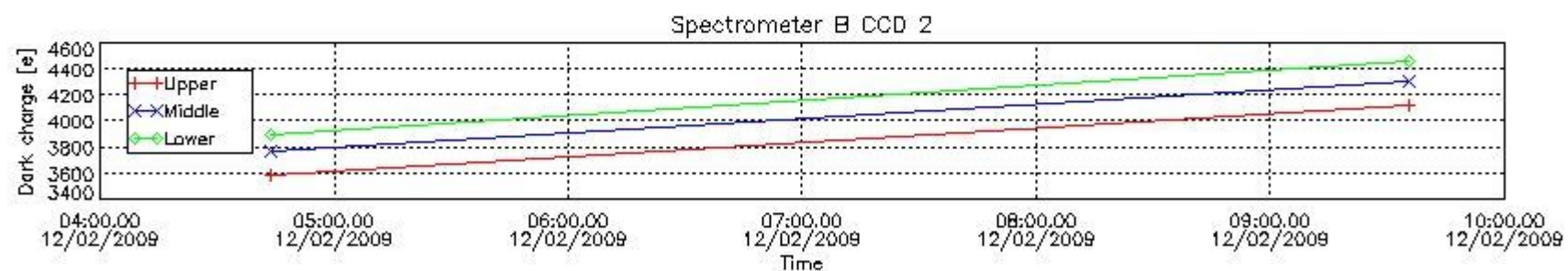
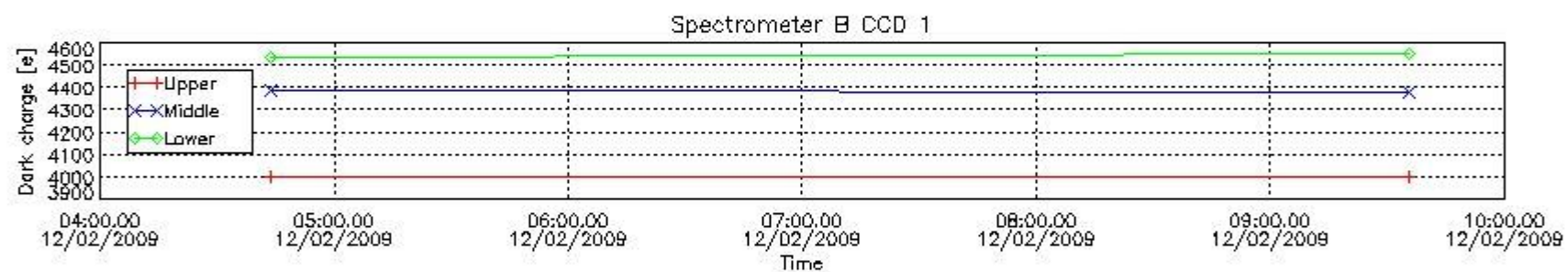
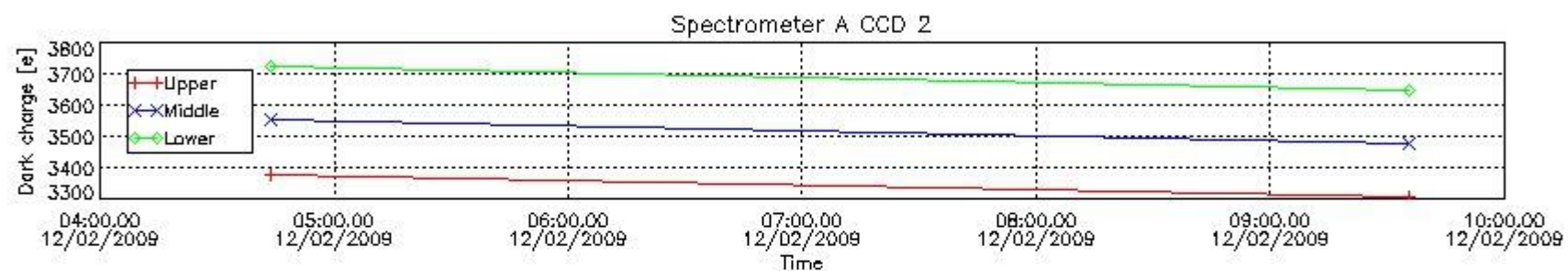
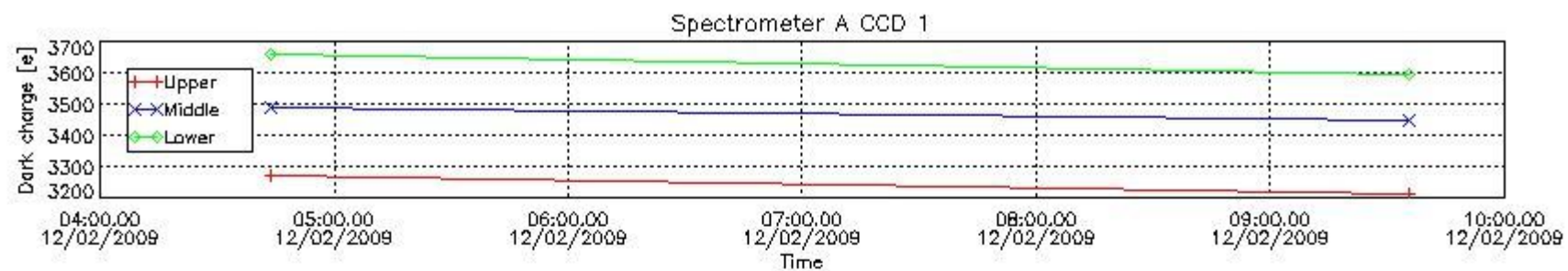
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.



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

Product name	DC information
GOM_TRA_1PNPDE20090212_055103_000000172076_00234_36360_4371.N1	DC map used
GOM_TRA_1PNPDK20090212_093523_000000542076_00236_36362_0891.N1	DC map used
GOM_TRA_1PNPDK20090212_115811_000000592076_00238_36364_1161.N1	DC map used
GOM_TRA_1PNPDK20090212_121918_000000542076_00238_36364_1162.N1	DC map used
GOM_TRA_1PNPDK20090212_182816_000001082076_00242_36368_1676.N1	DC map used
GOM_TRA_1PNPDK20090212_192317_000000702076_00242_36368_1677.N1	DC map used

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



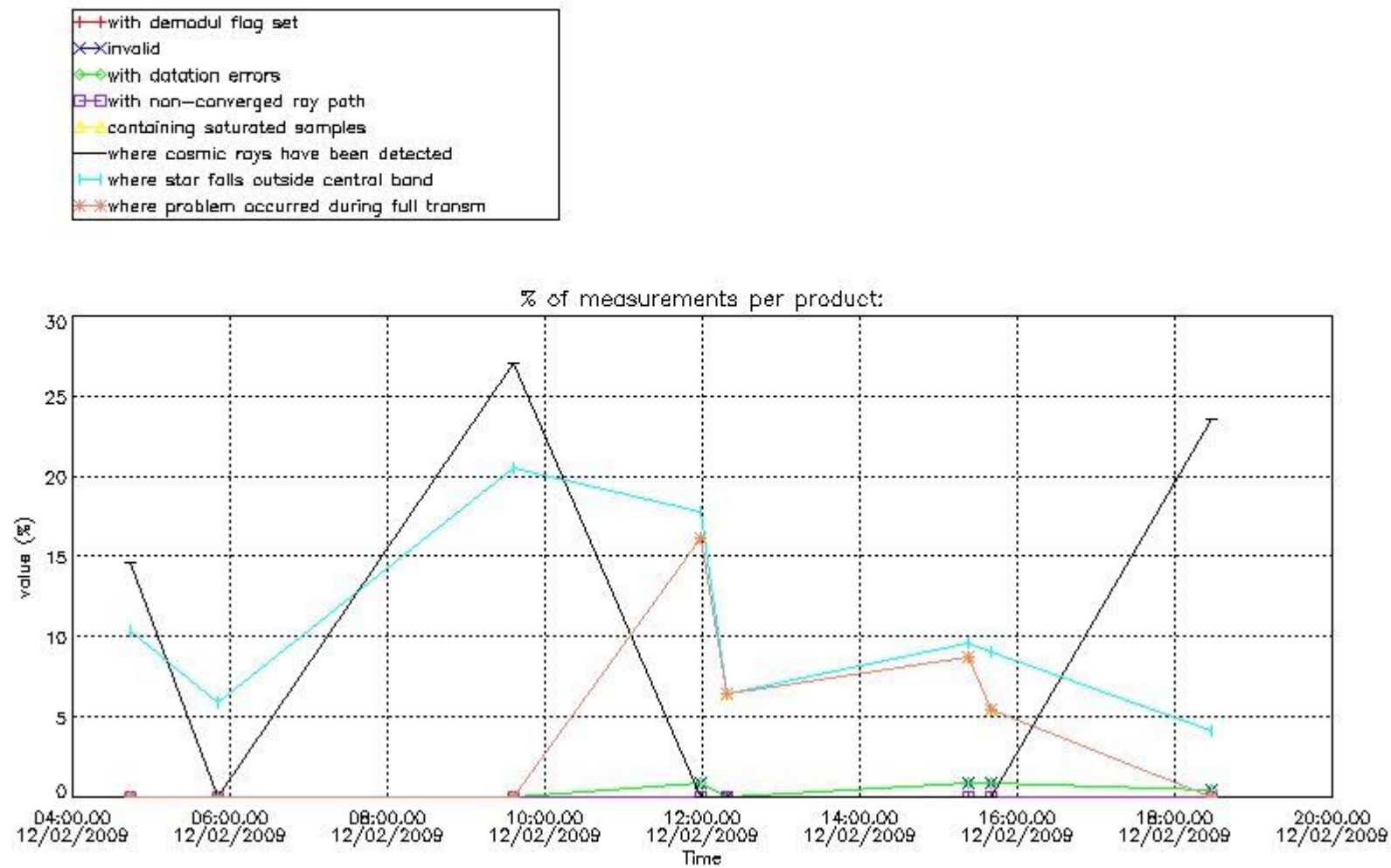
## 5. Demodulation flag and quality information monitoring

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.

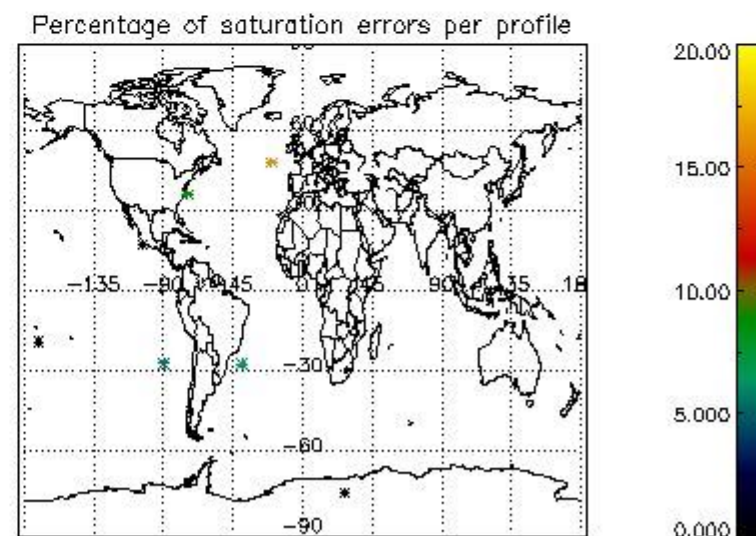
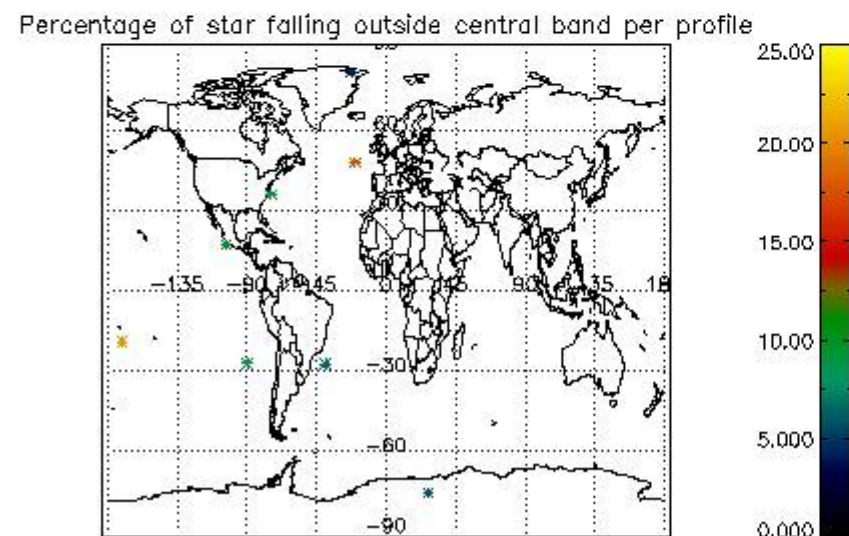
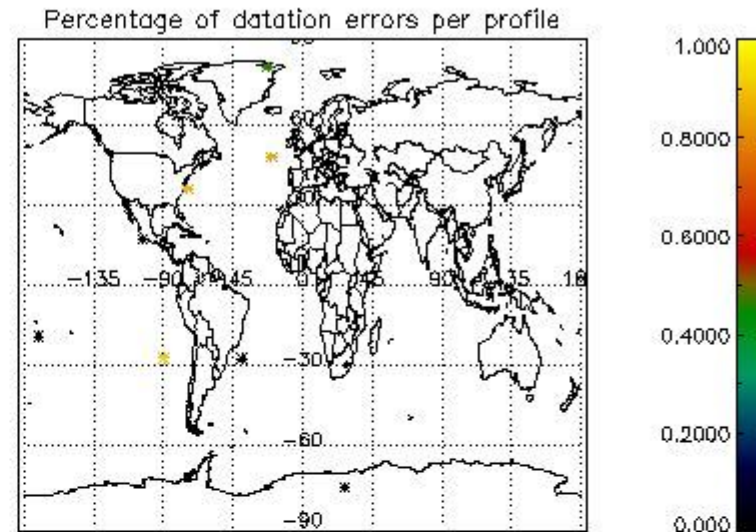
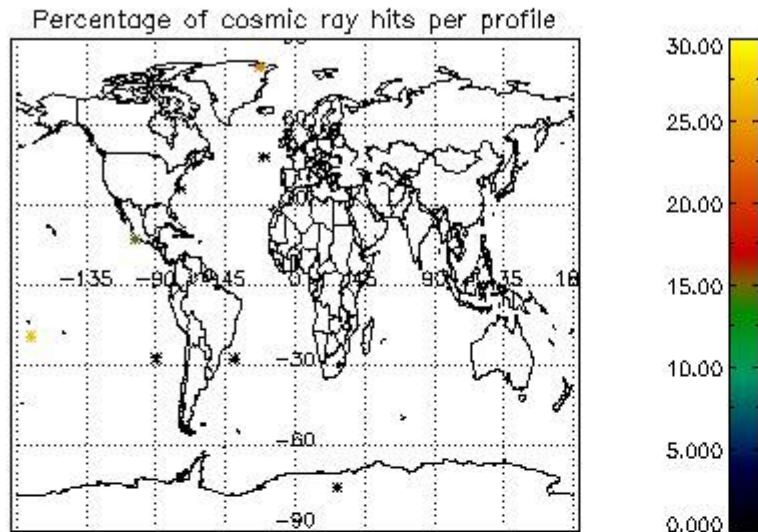
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
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)



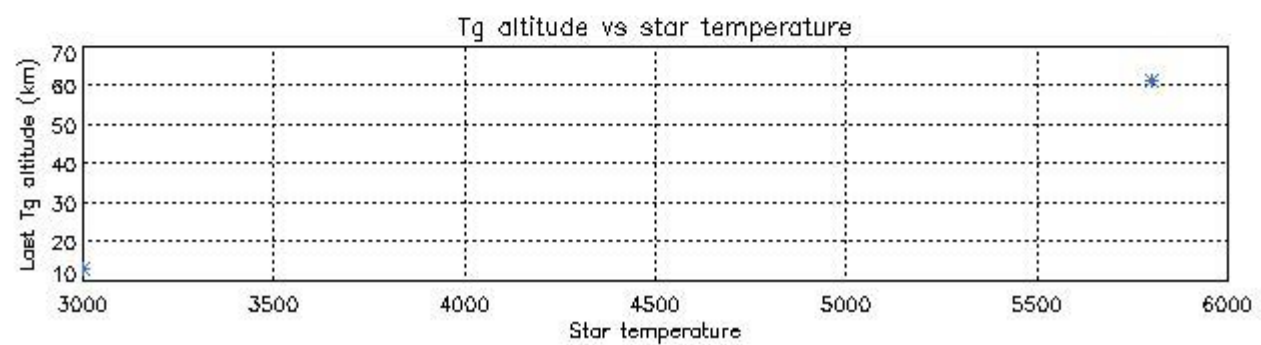
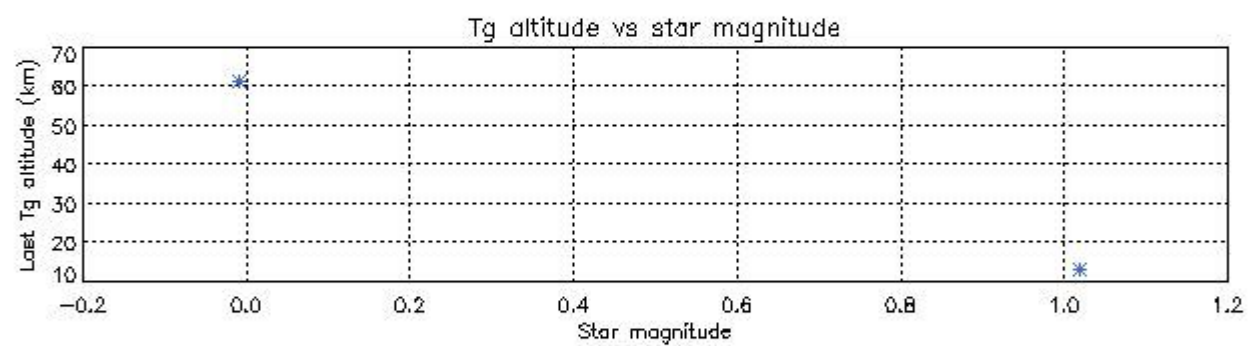
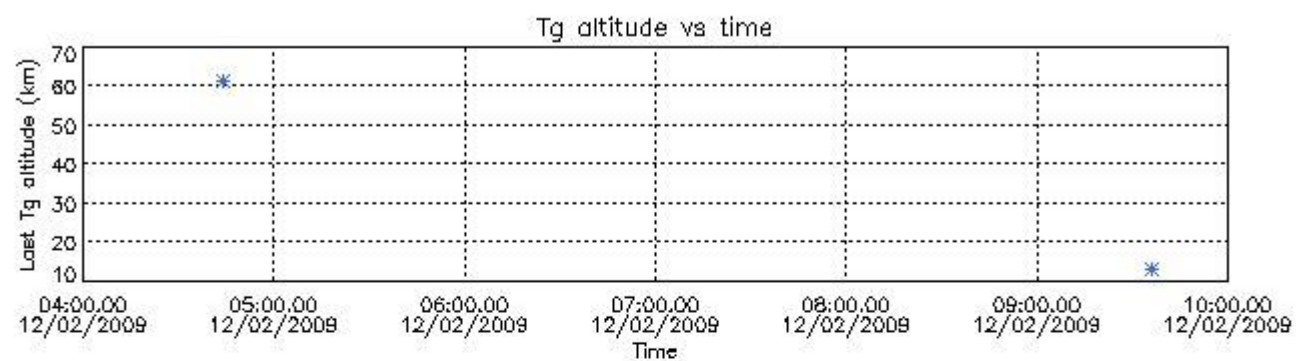
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	37.277	17.945	NaN
St. deviation:	34.181	4.0941	NaN
Maximum:	61.447	21.555	NaN
Minimum:	13.108	12.385	NaN
Number of data:	2.0000	4.0000	NaN

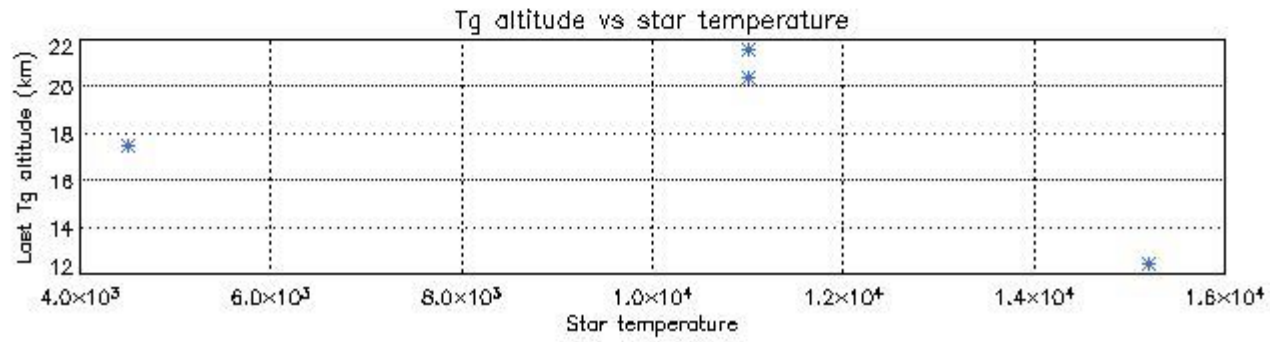
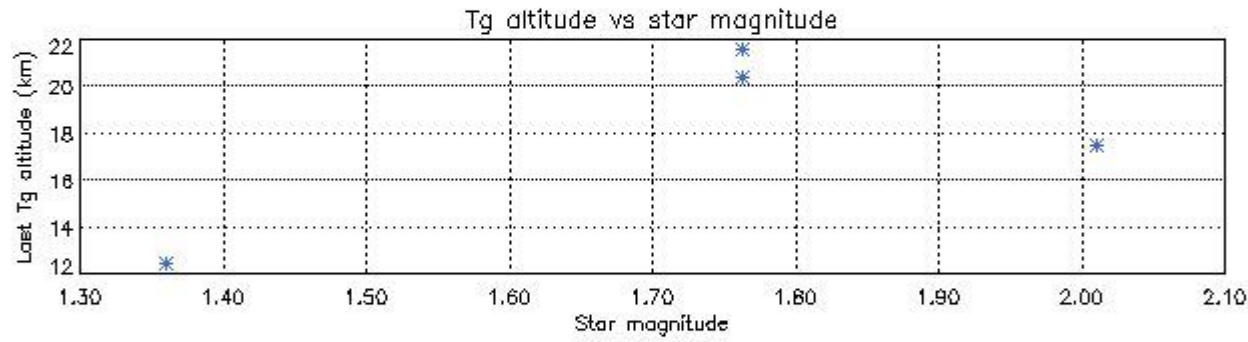
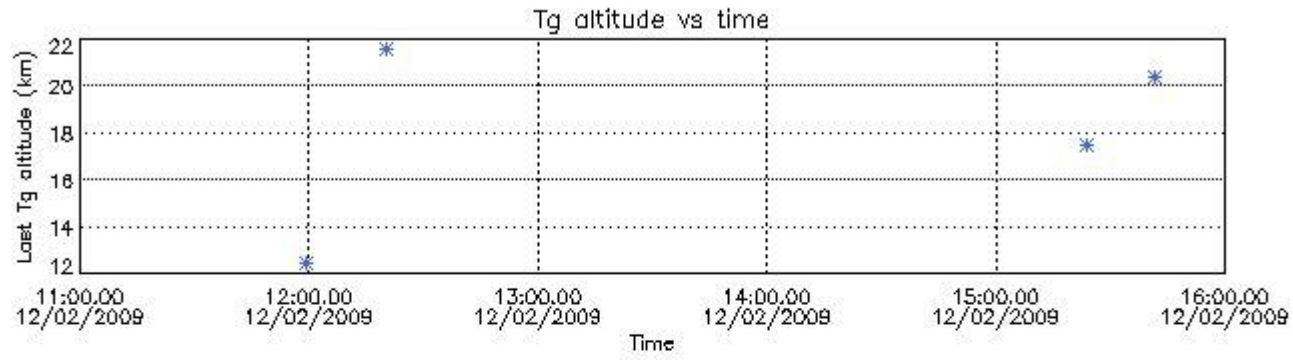
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

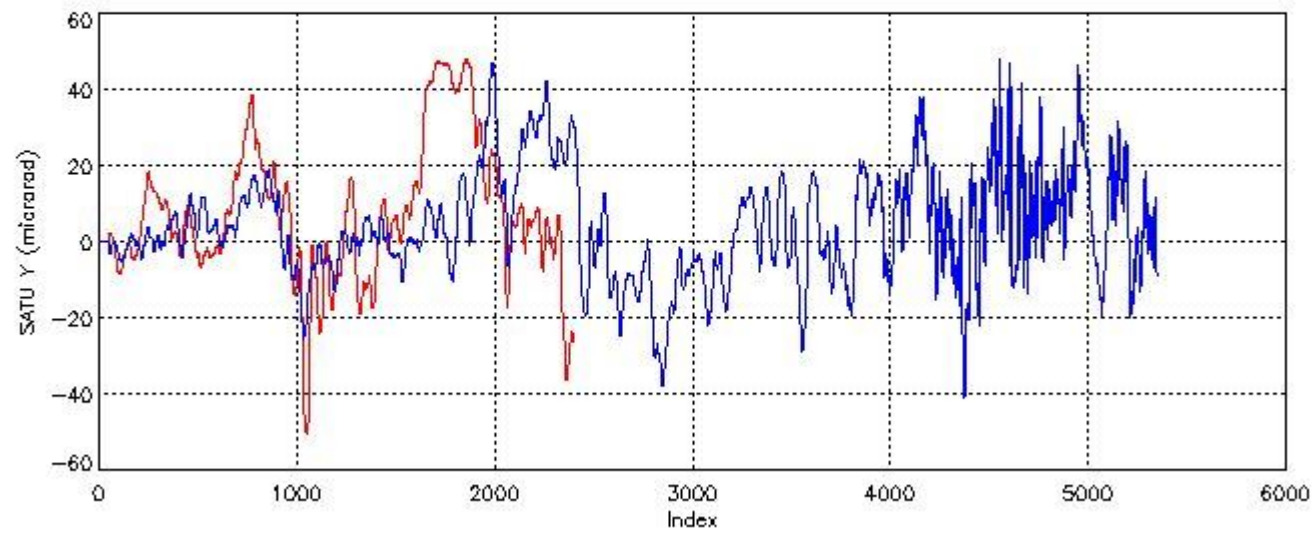
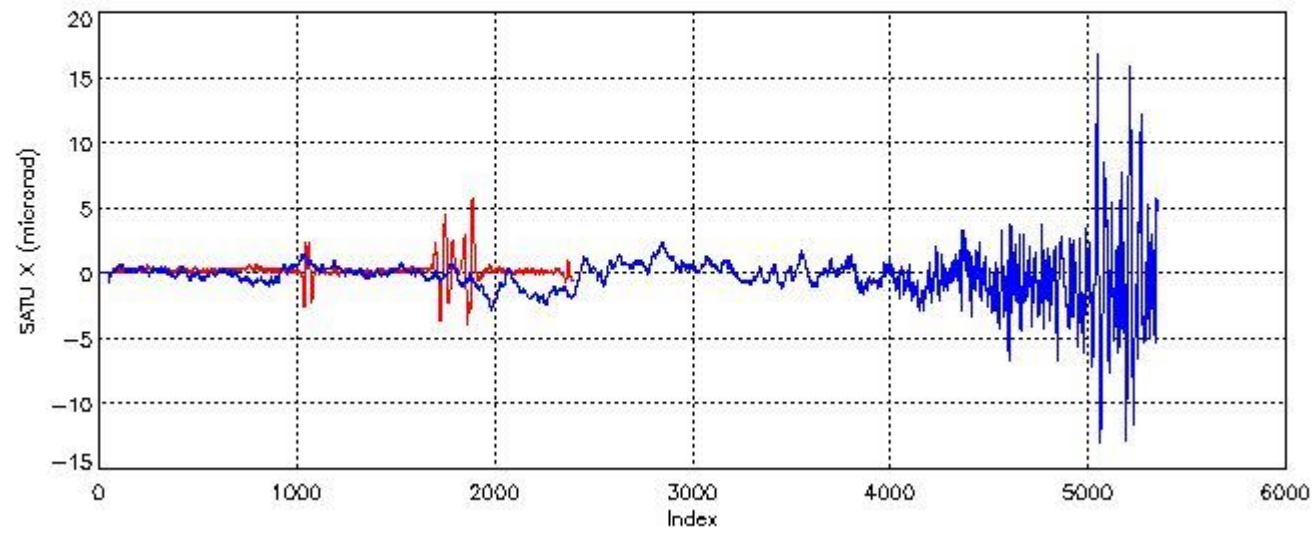


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13886	4.4966	0.031556	1.8223
St. deviation:	0.29541	9.3416	1.0552	7.8142
Maximum:	1.5000	38.500	4.7000	24.900
Minimum:	-1.0000	-25.700	-3.5000	-27.300

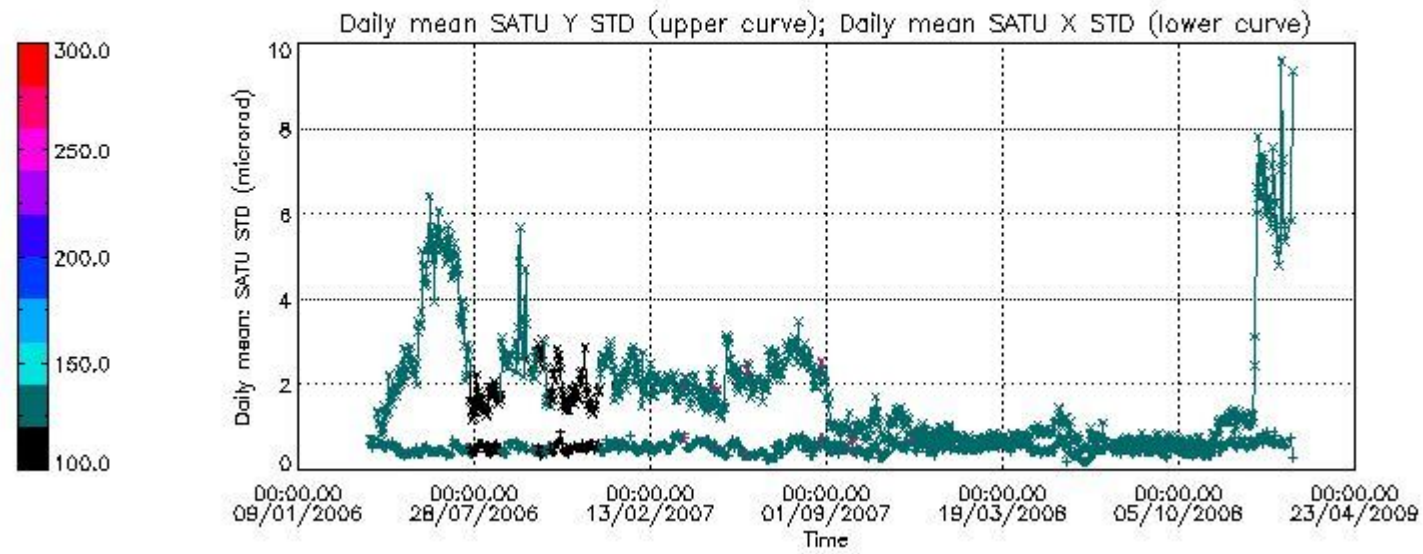
Number of data:	2100.0	2100.0	5250.0	5250.0
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

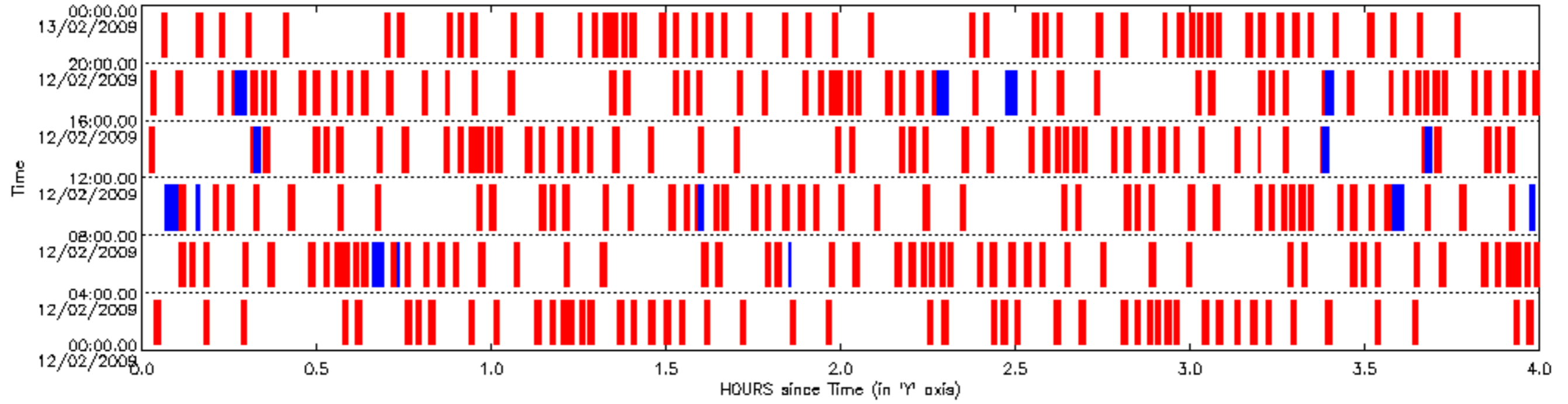
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis



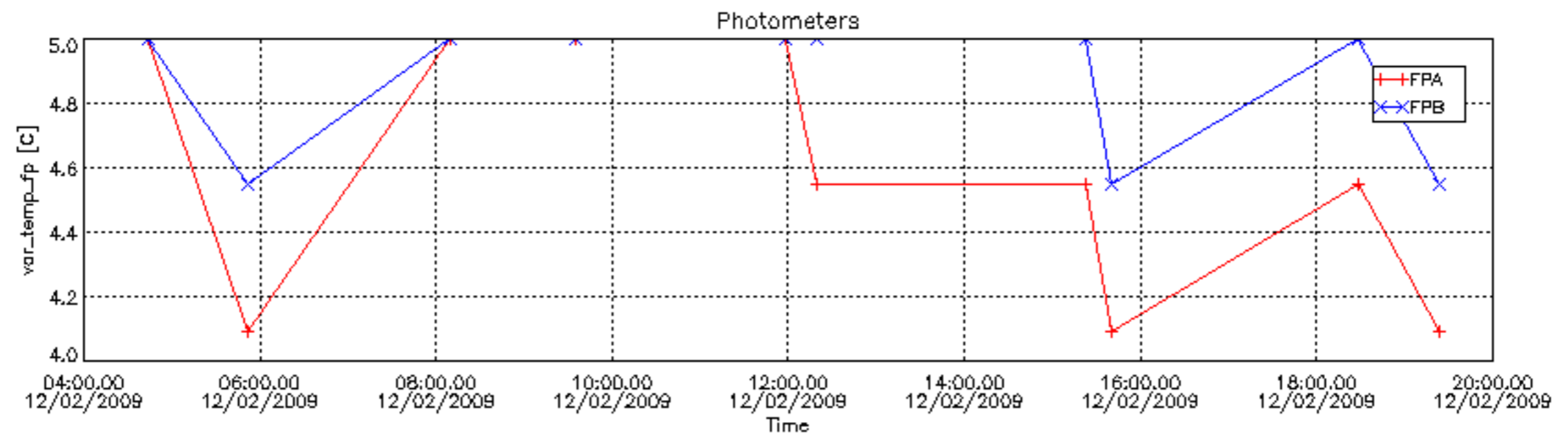
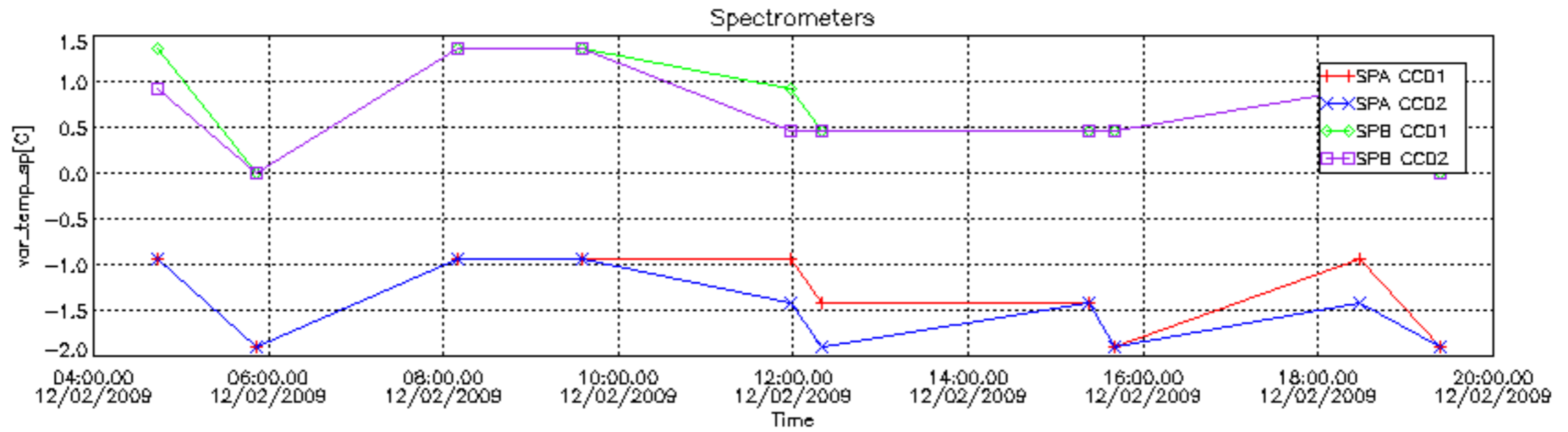
### 8. Auxiliary Data Files used for the production reported in section 2.4

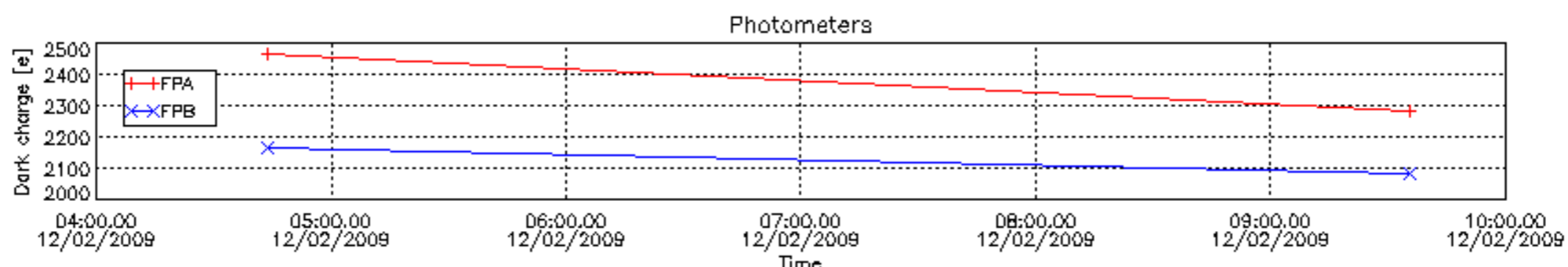
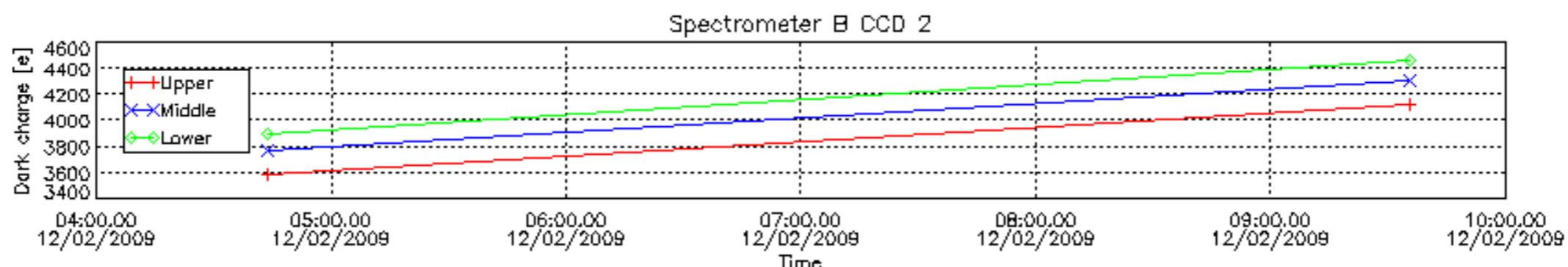
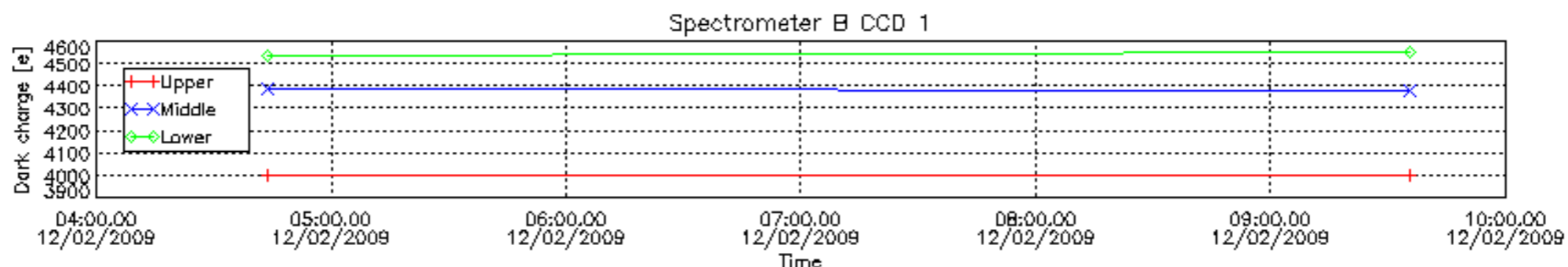
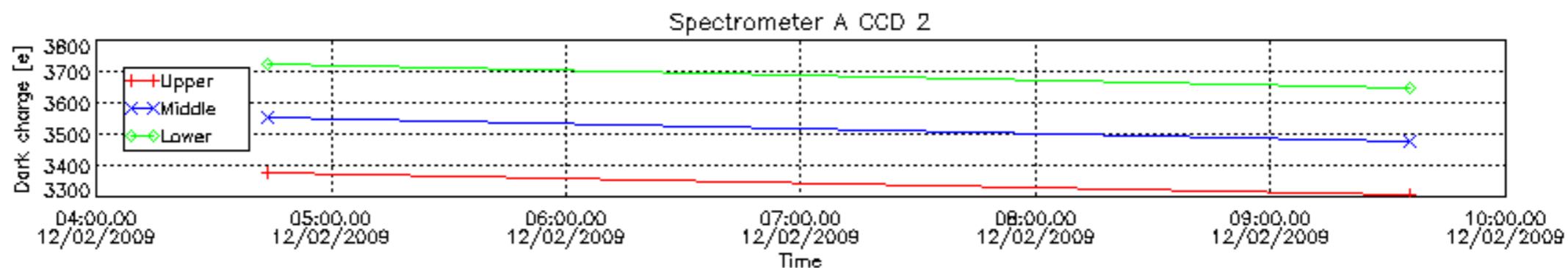
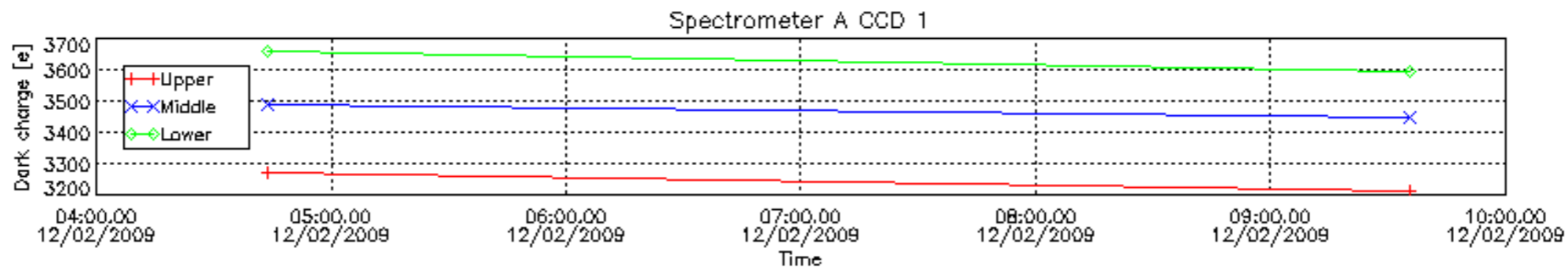
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

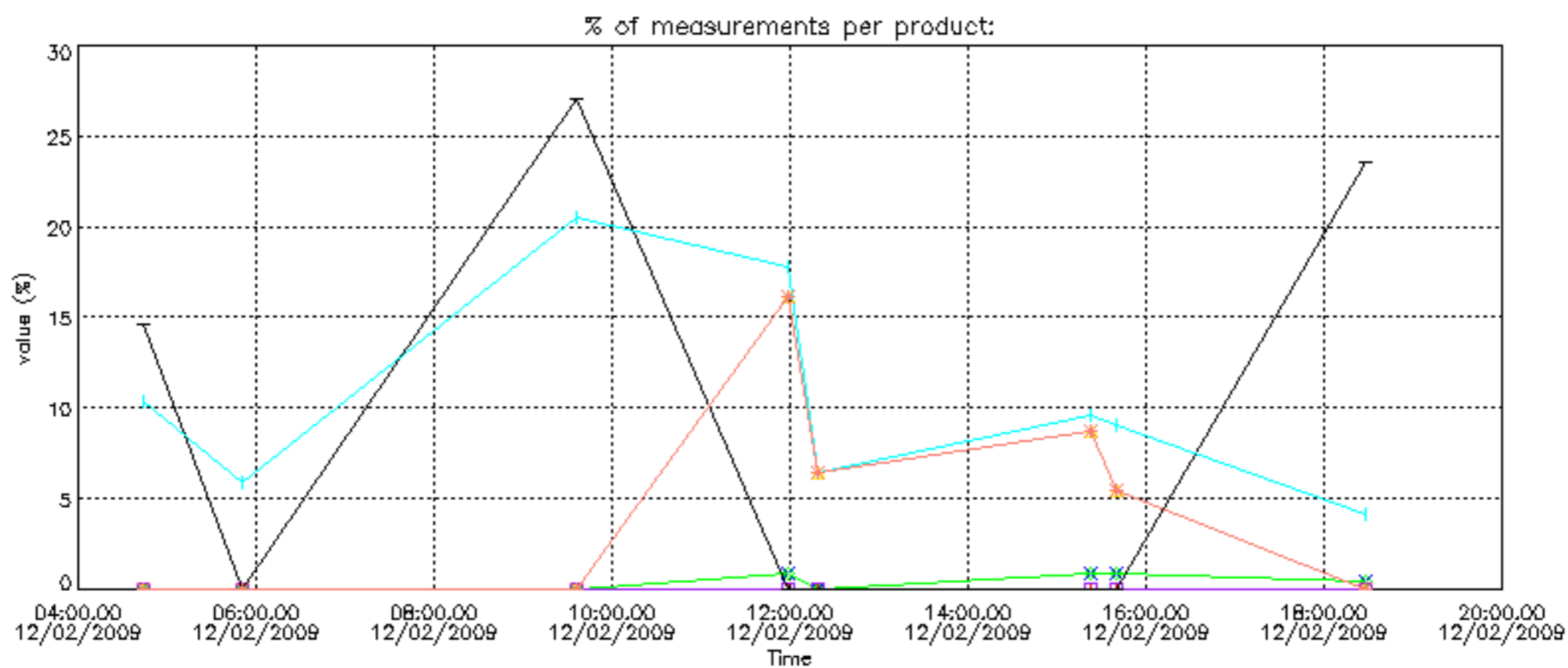
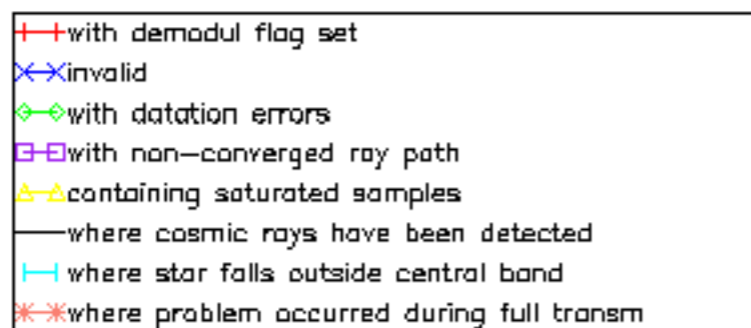
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-FEB-2009 04:43:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	12-FEB-2009 04:43:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-FEB-2009 04:43:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-FEB-2009 04:43:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-FEB-2009 04:43:47
ECMWF_FILE	AUX_ECF_AXNECM20090211_182111_20090212_030000_20090212_150000	1	12-FEB-2009 04:43:47
ECMWF_FILE	AUX_ECF_AXNECM20090212_062111_20090212_090000_20090212_210000	4	12-FEB-2009 09:35:23
ECMWF_FILE	AUX_ECF_AXNECM20090212_064111_20090212_150000_20090213_030000	7	12-FEB-2009 15:22:43
OPTIONAL_ECMWF_FILE	MISSING	1	12-FEB-2009 04:43:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090212_022311_000051012076_00232_36358_7345.N1	1	12-FEB-2009 04:43:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090212_035330_000060572076_00233_36359_7346.N1	2	12-FEB-2009 05:51:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20090212_072043_000035072076_00235_36361_9238.N1	4	12-FEB-2009 09:35:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20090212_100526_000057382076_00237_36363_9240.N1	5	12-FEB-2009 11:58:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20090212_132201_000057382076_00239_36365_9242.N1	7	12-FEB-2009 15:22:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20090212_163836_000057382076_00241_36367_9244.N1	9	12-FEB-2009 18:28:16



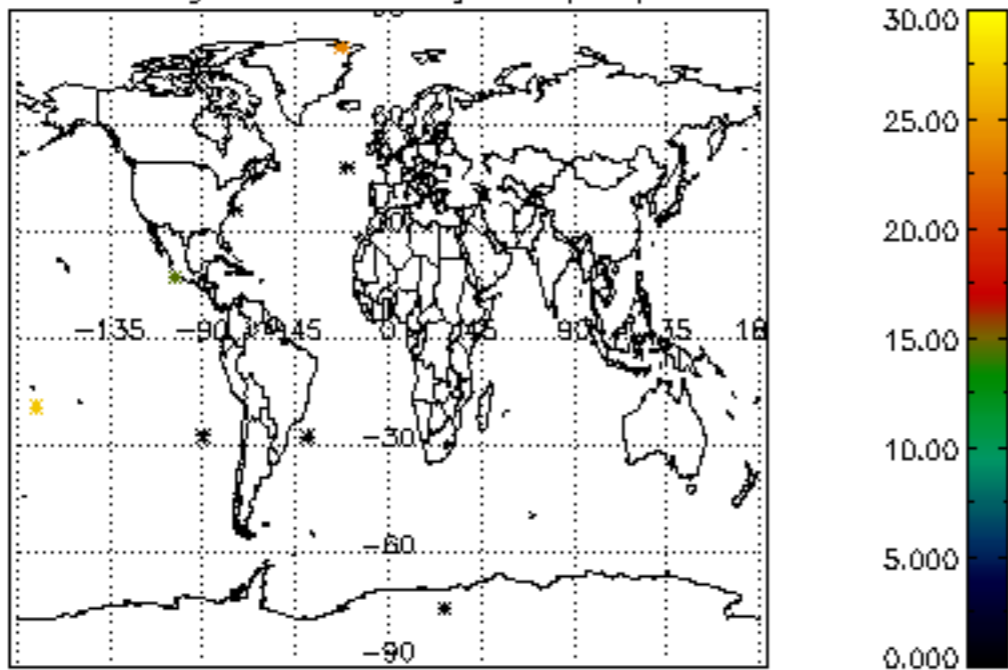




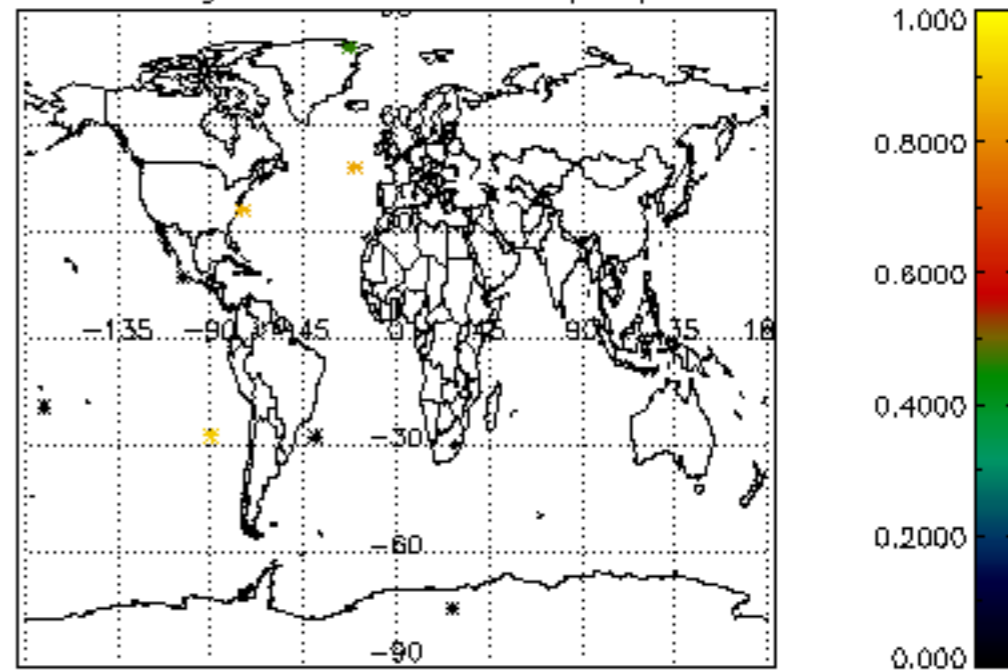




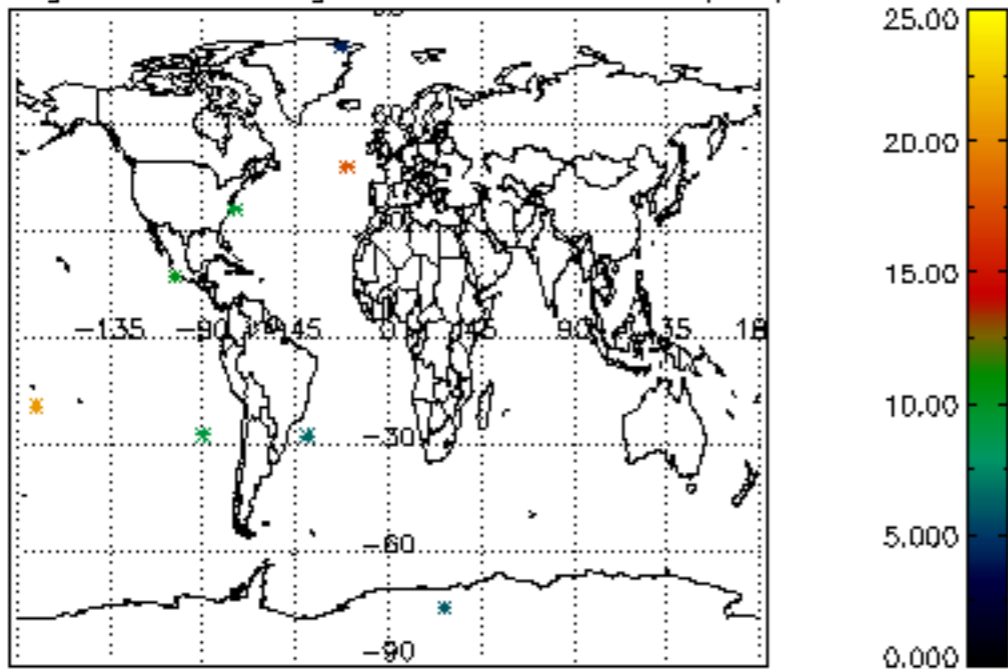
Percentage of cosmic ray hits per profile



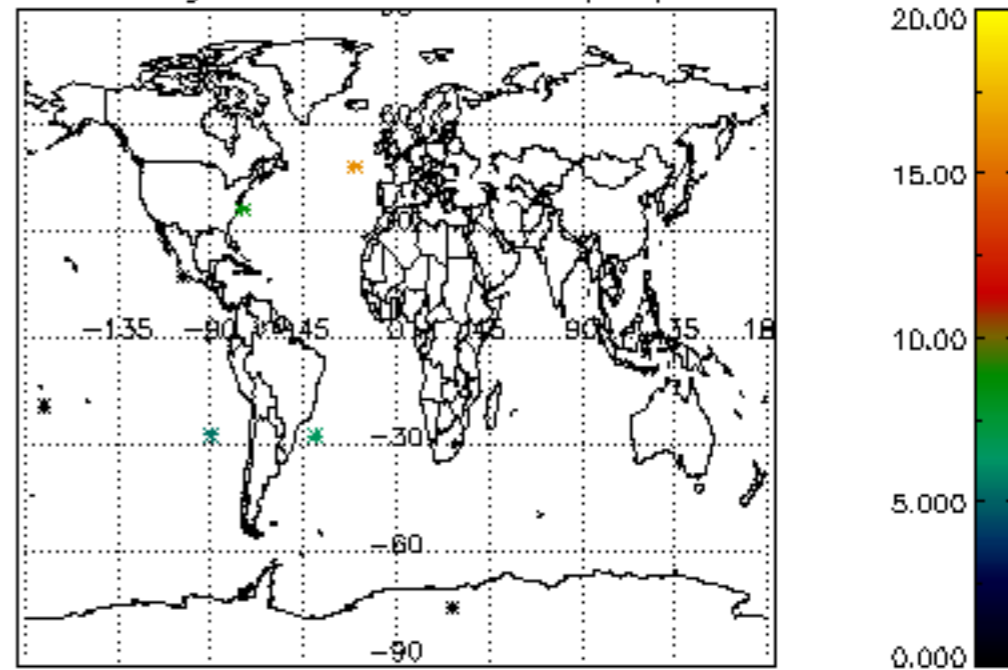
Percentage of datation errors per profile



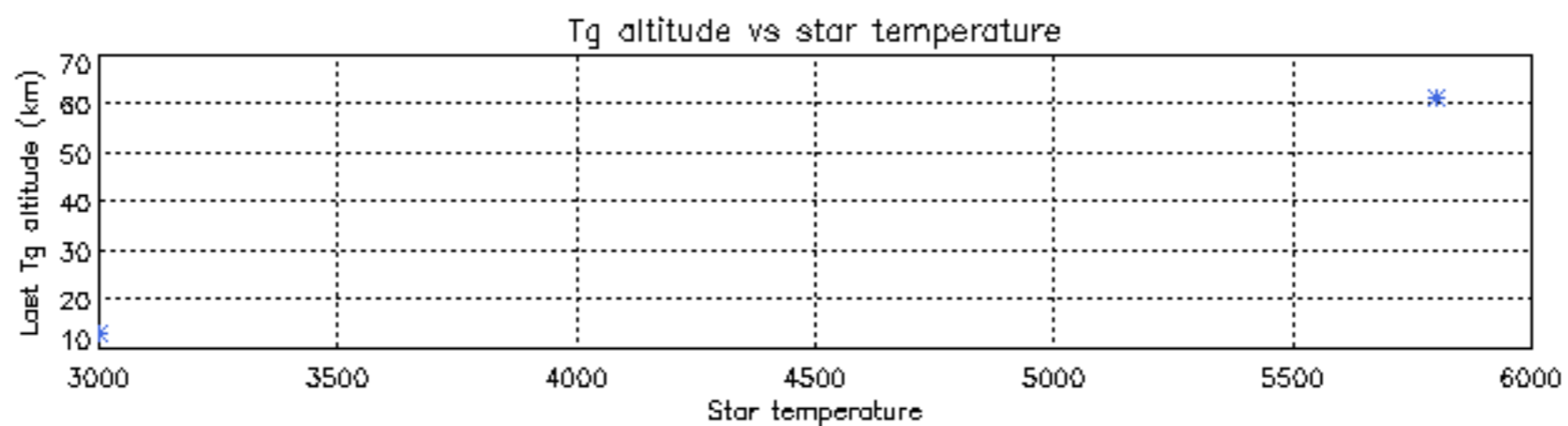
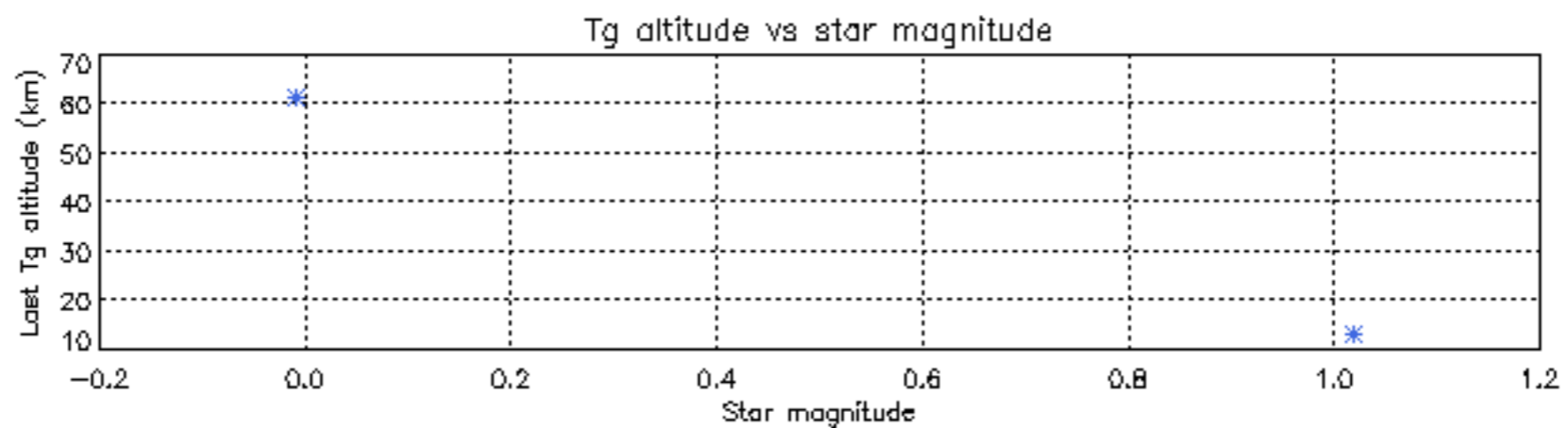
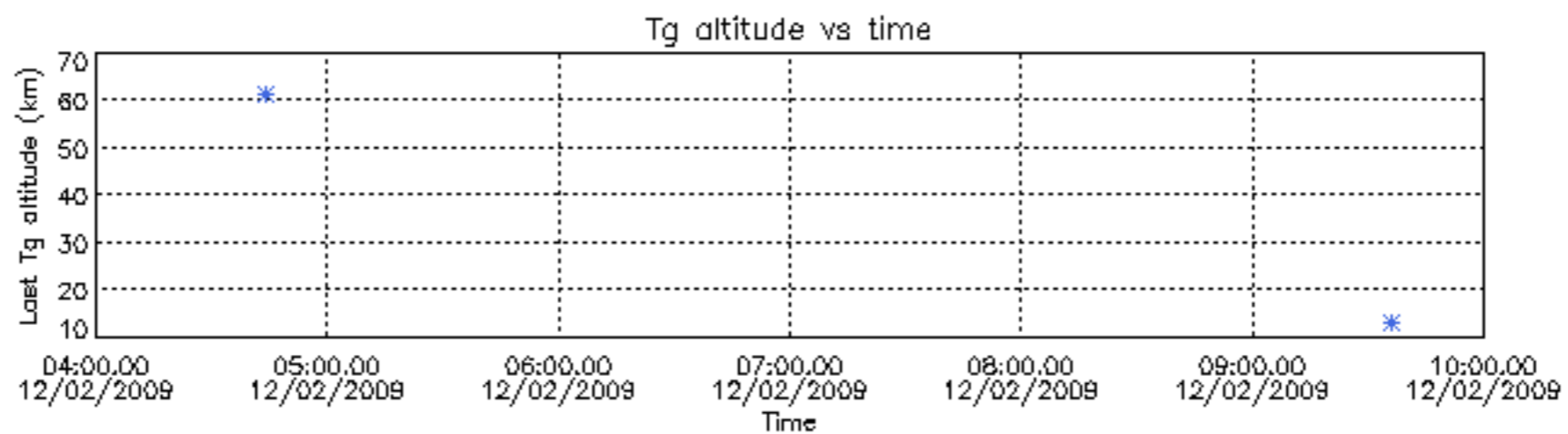
Percentage of star falling outside central band per profile



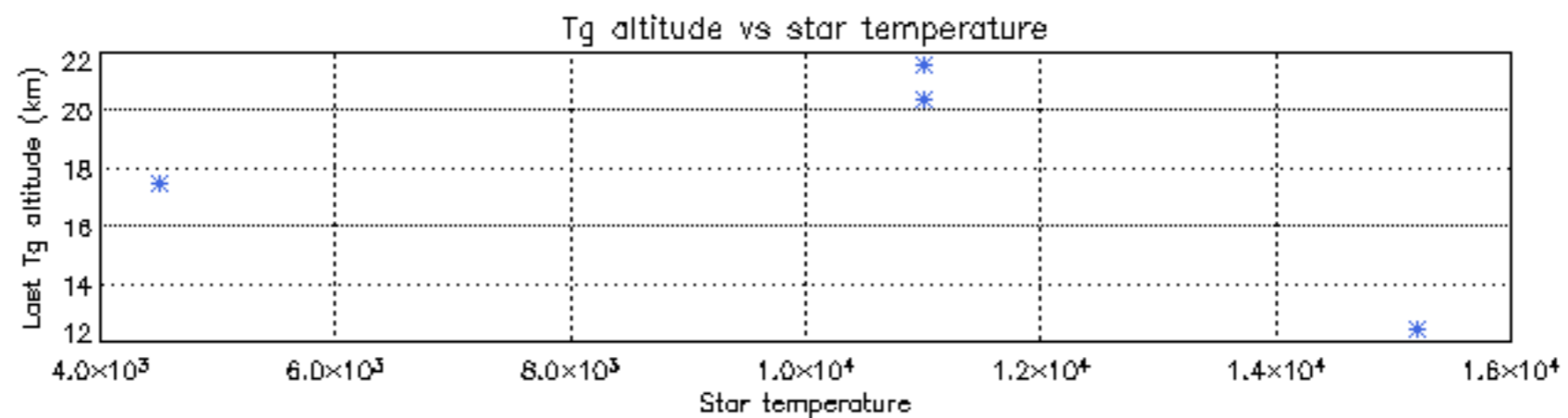
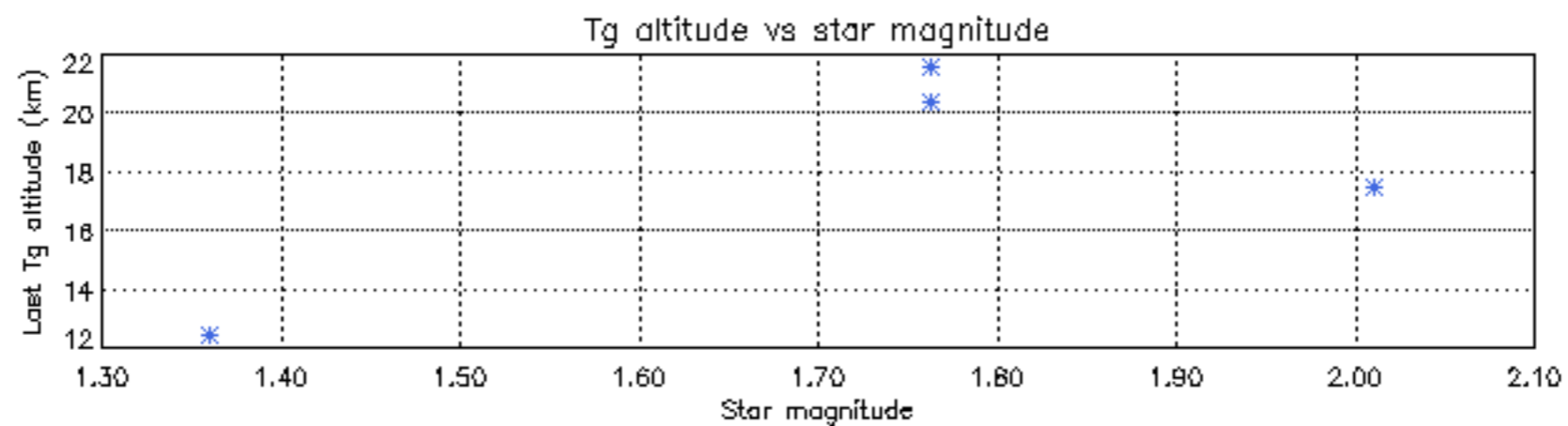
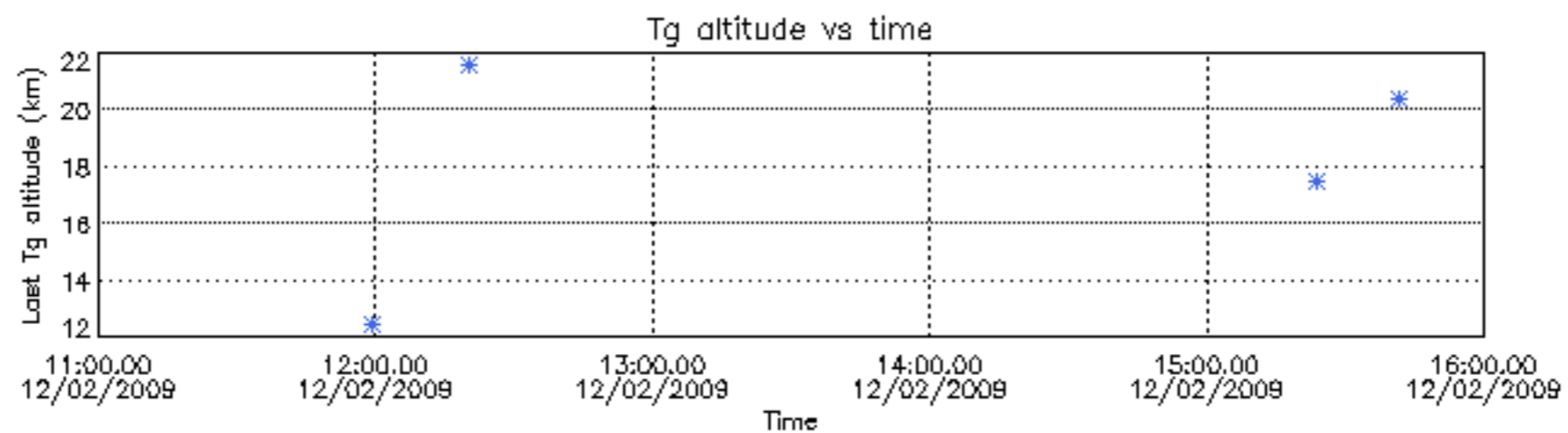
Percentage of saturation errors per profile

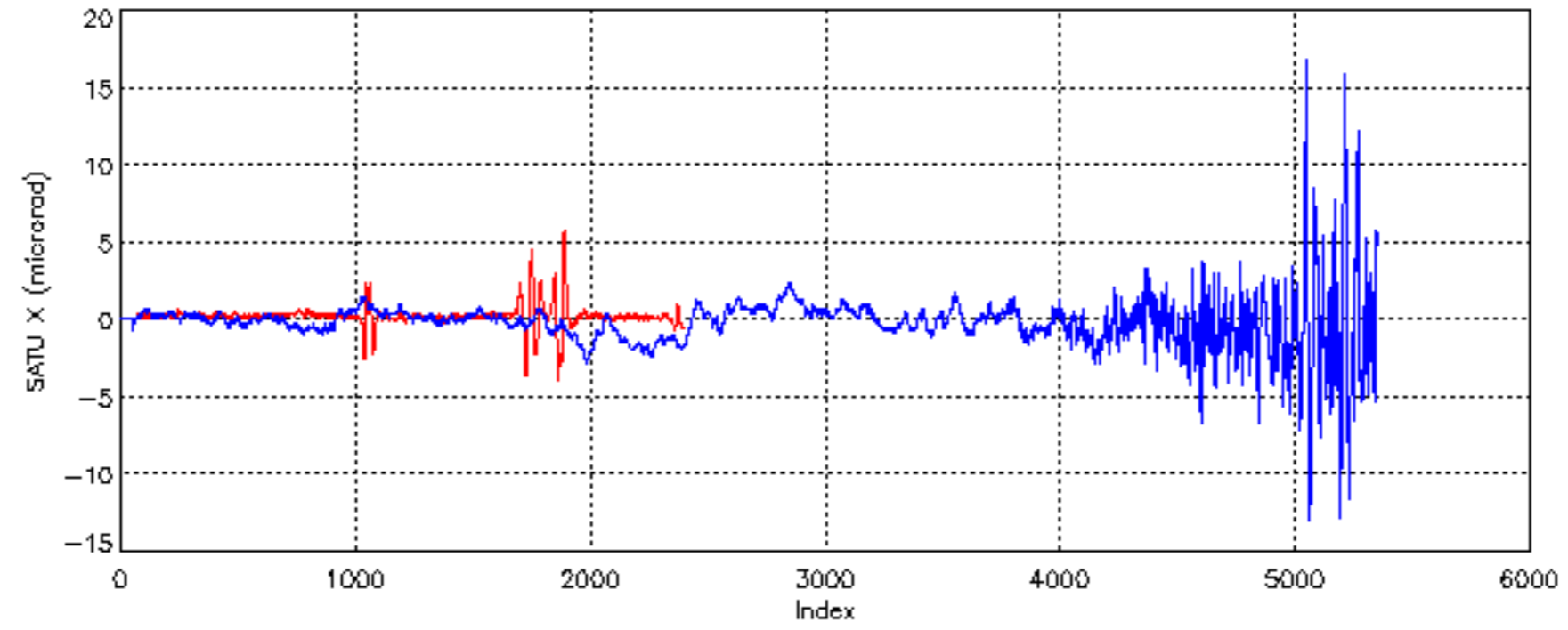


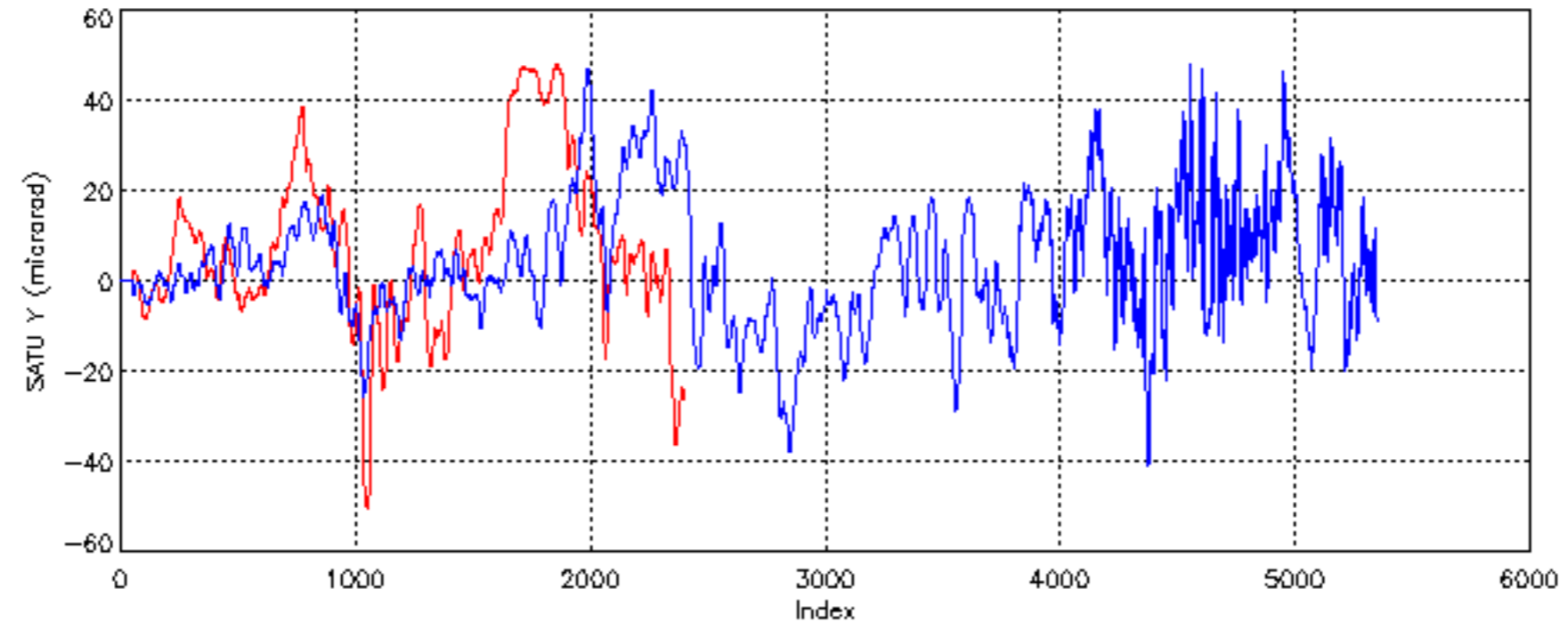
Tangent altitude at which the star is lost



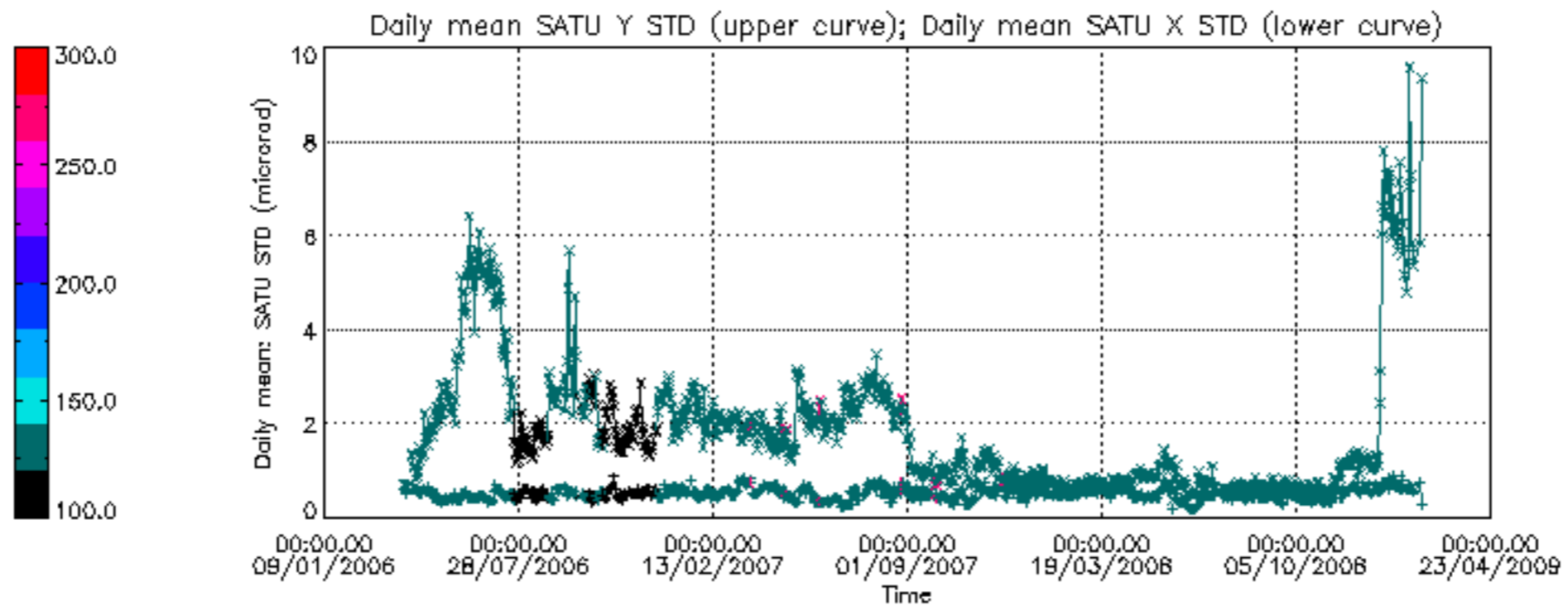
Tangent altitude at which the star is lost

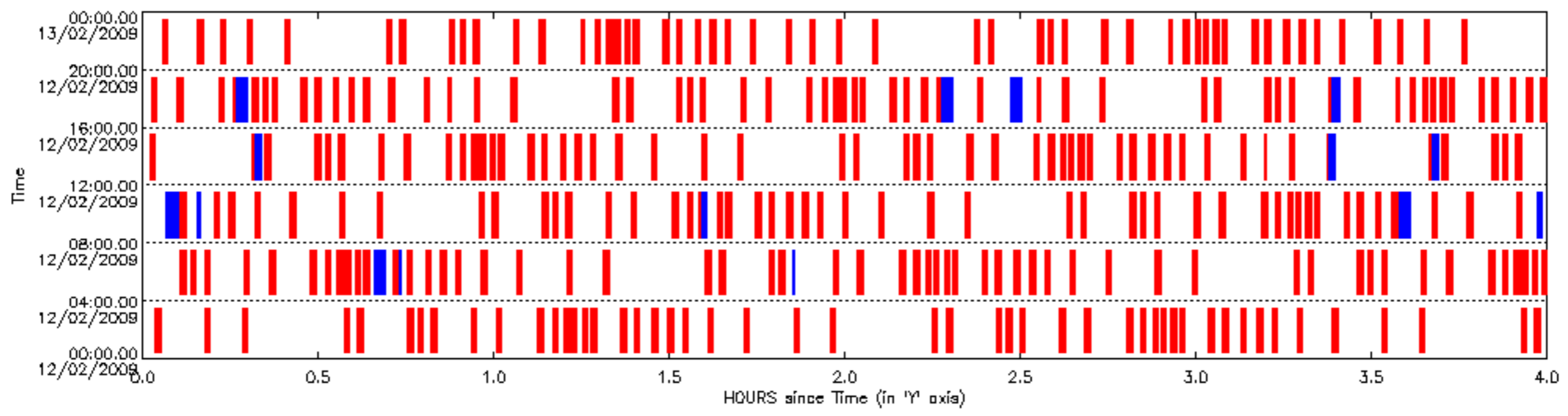


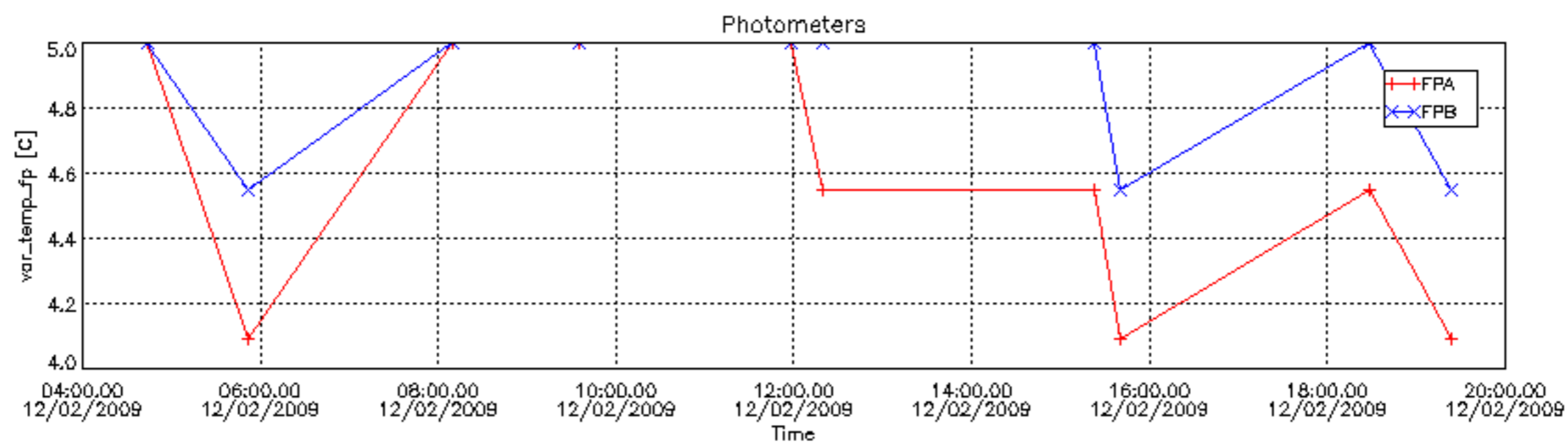
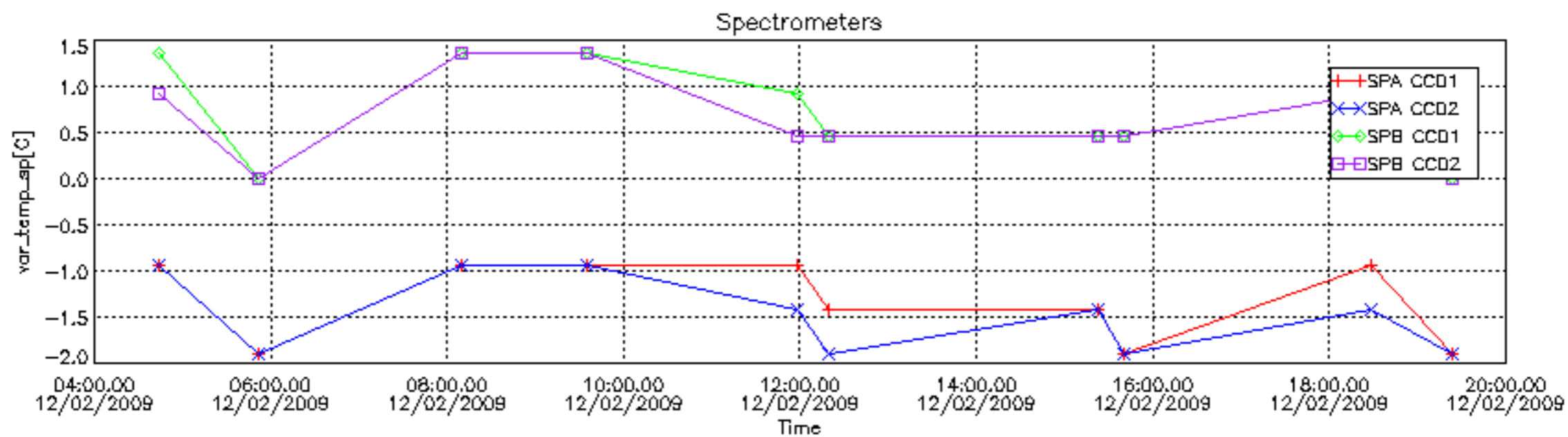


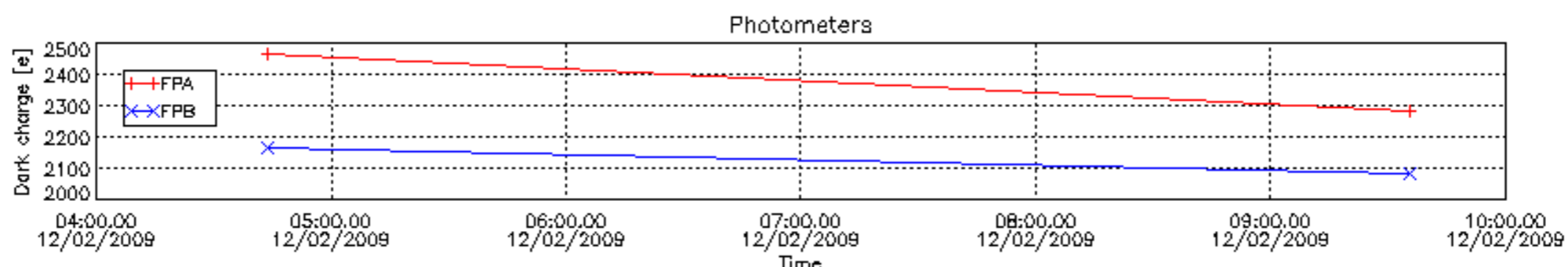
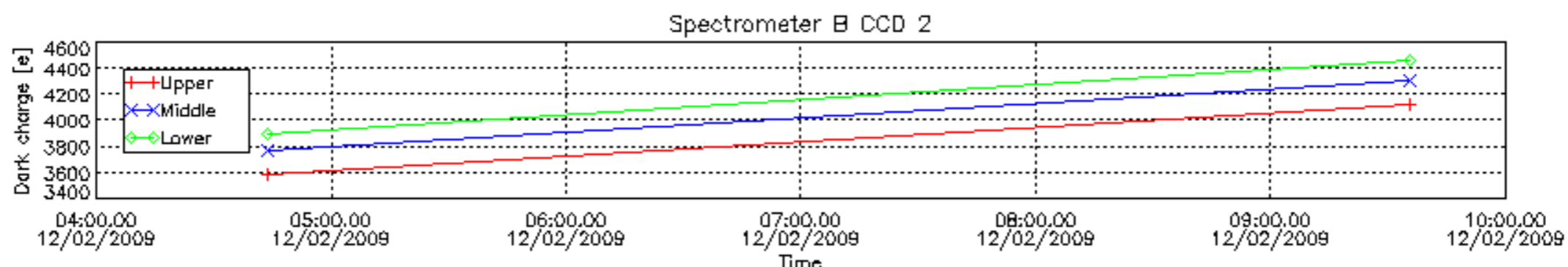
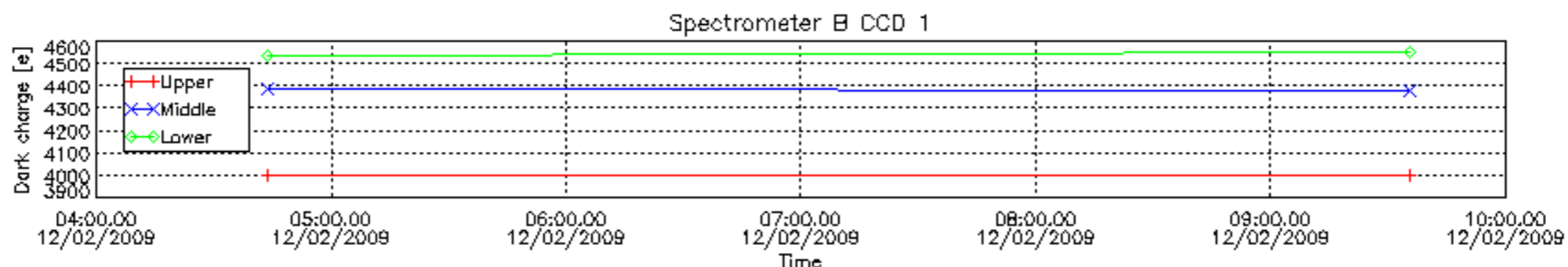
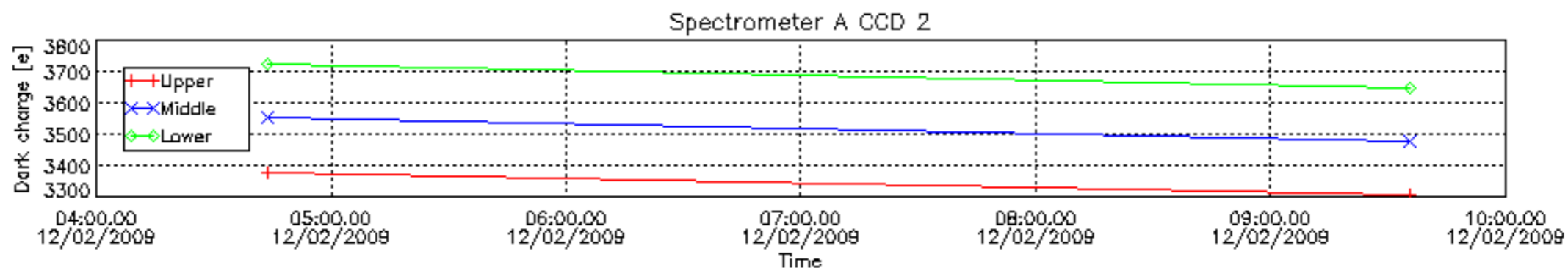
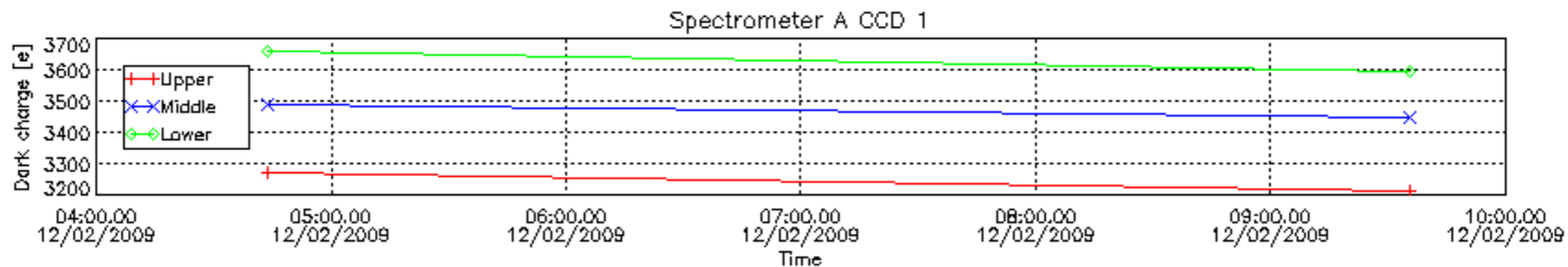


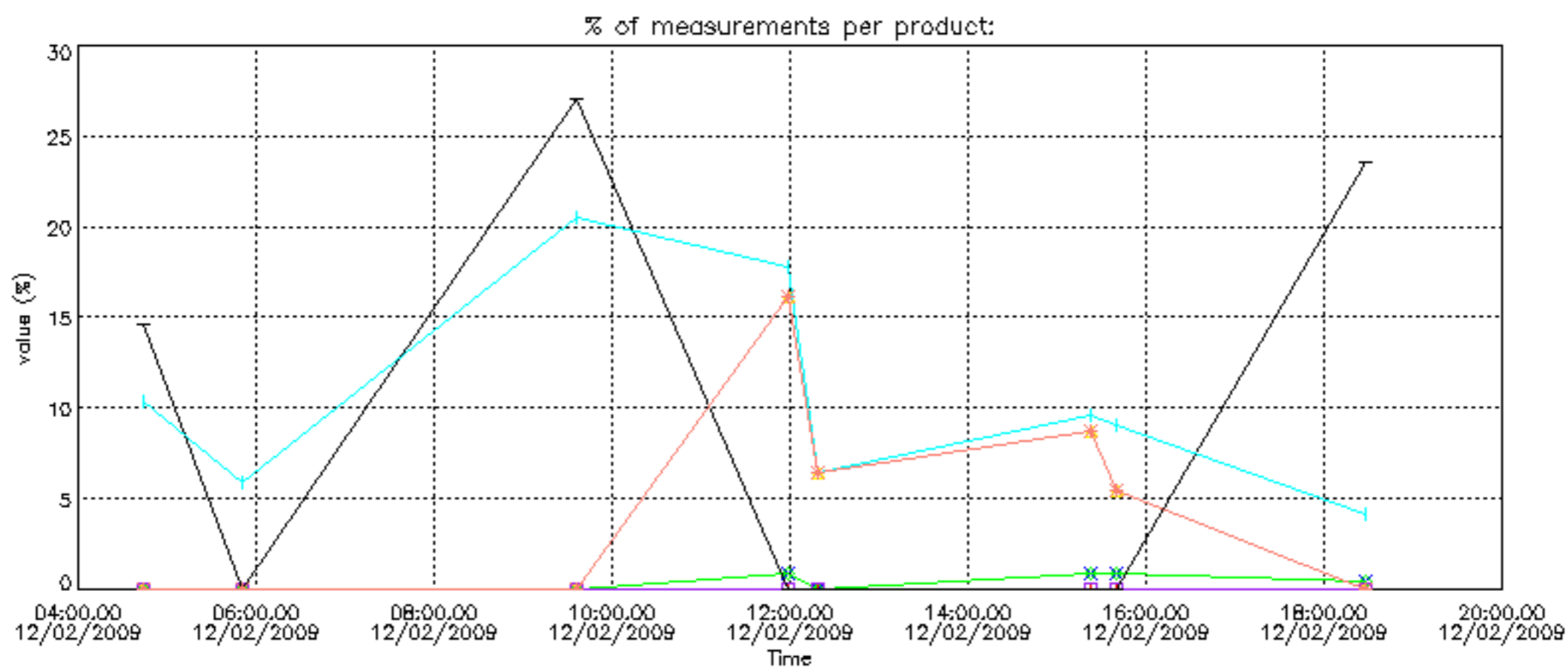
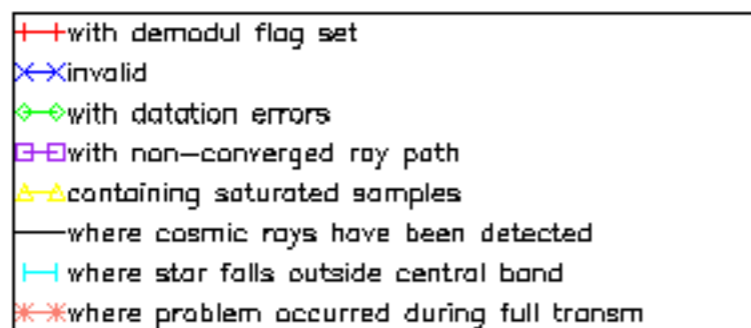




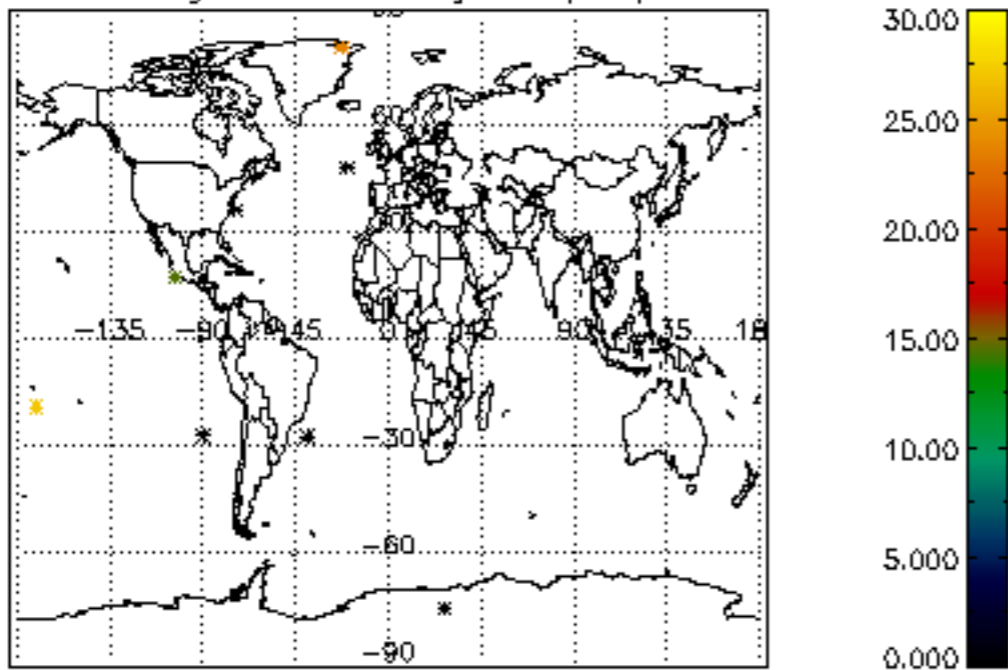




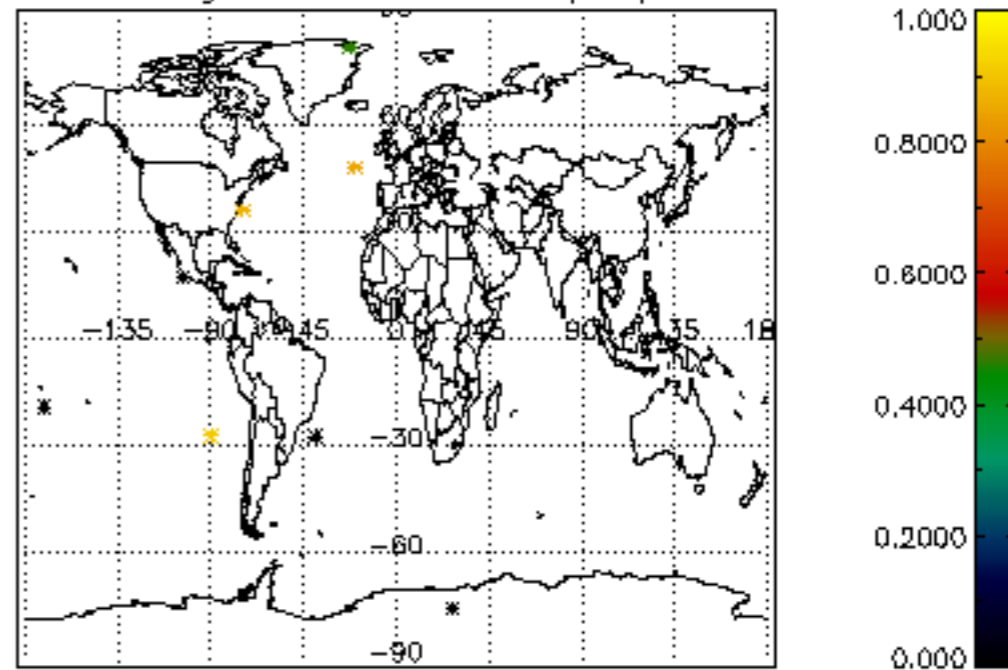




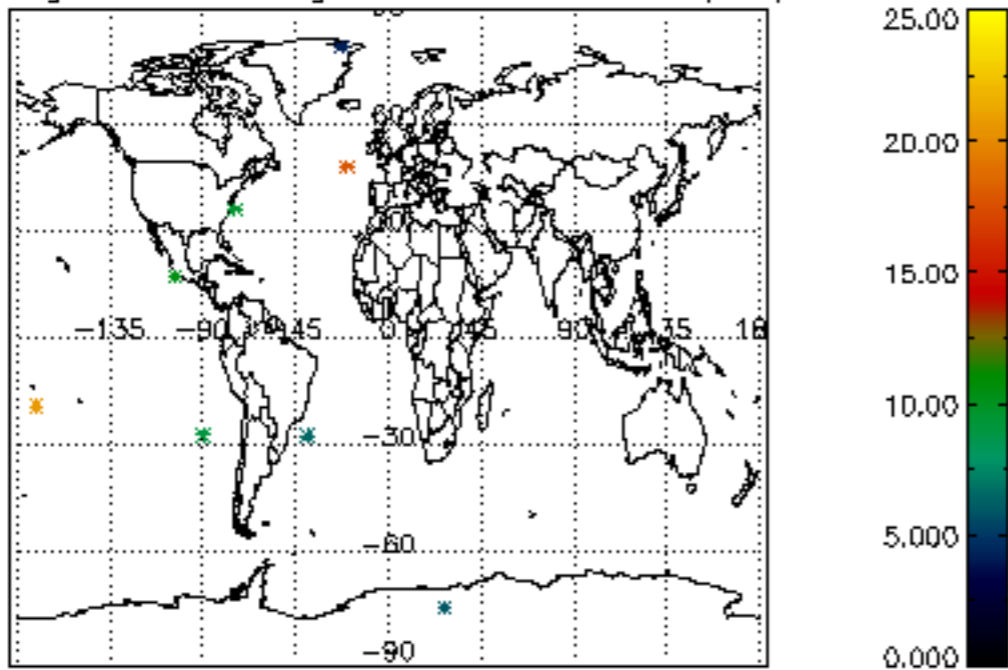
Percentage of cosmic ray hits per profile



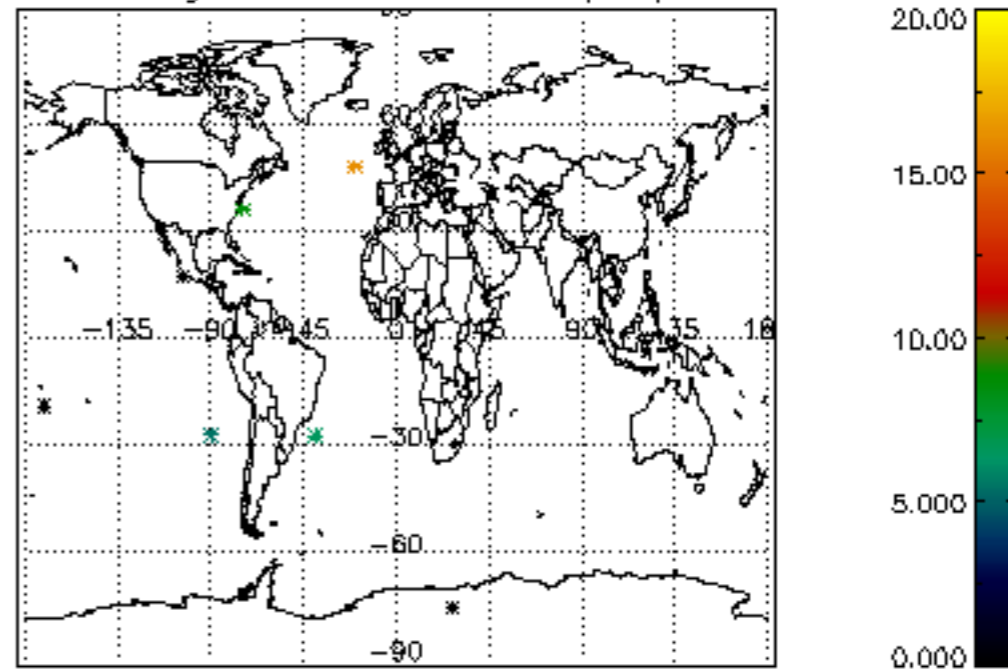
Percentage of datation errors per profile



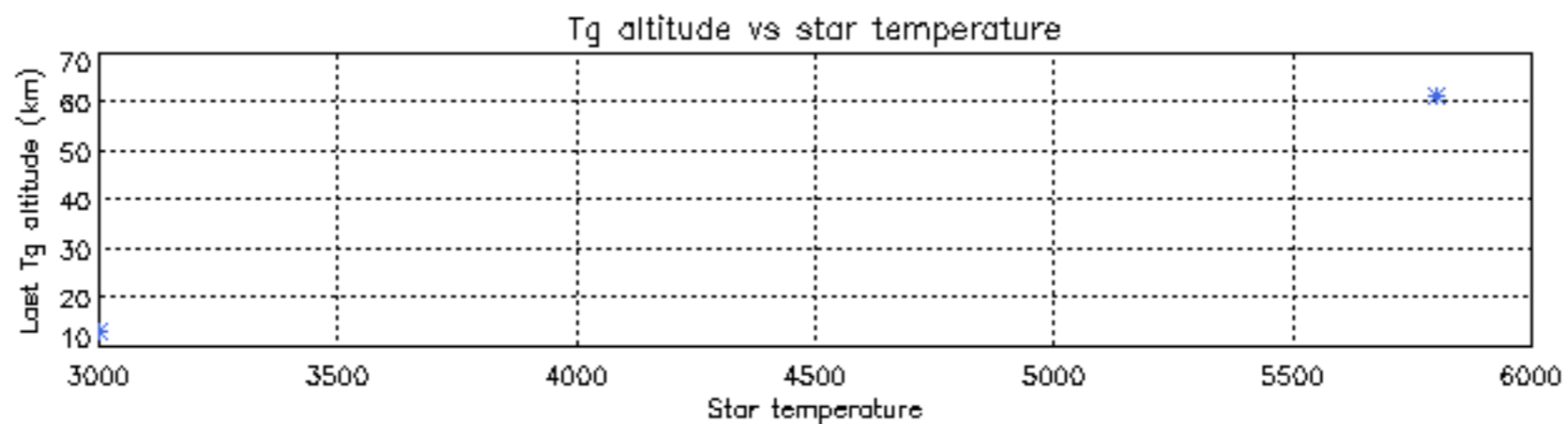
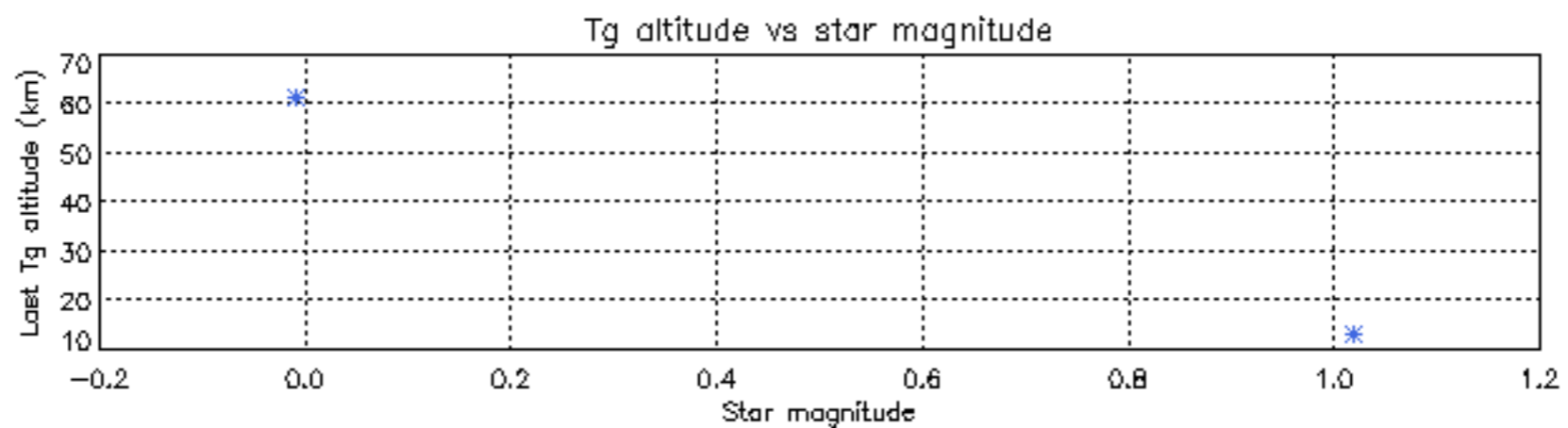
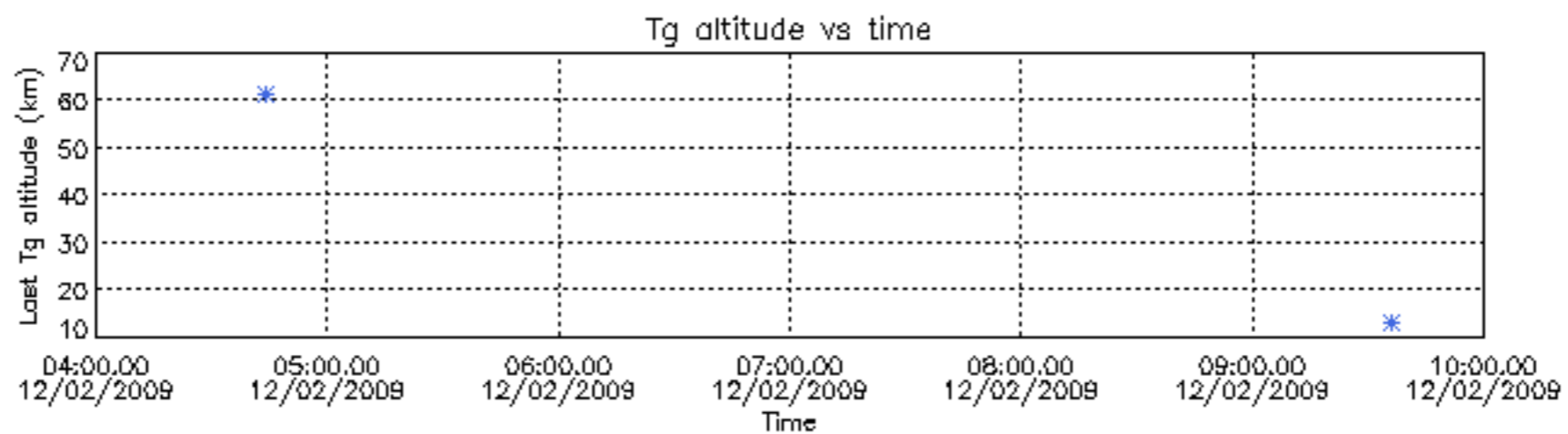
Percentage of star falling outside central band per profile



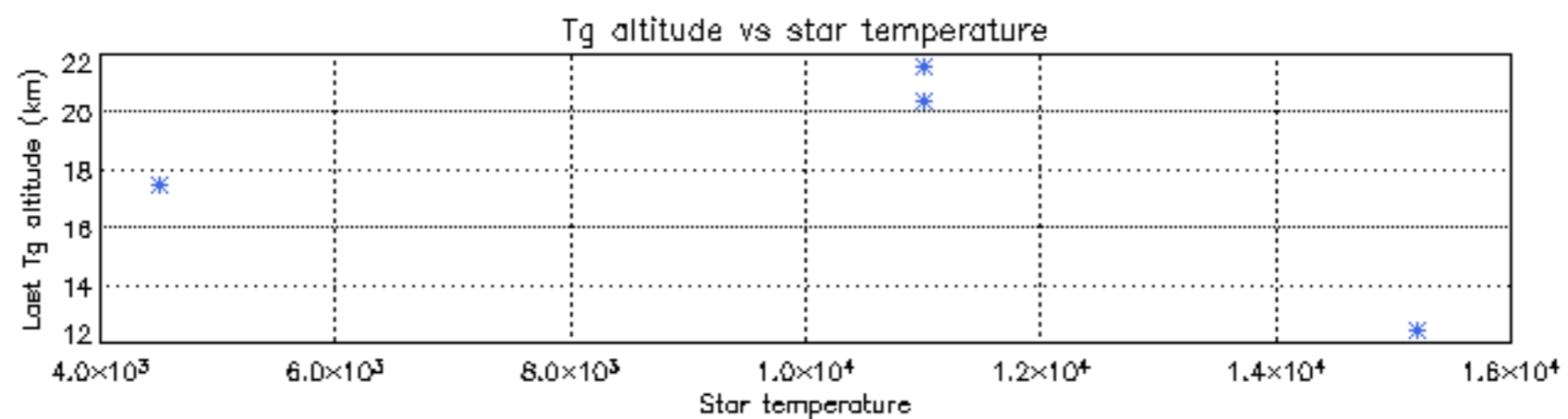
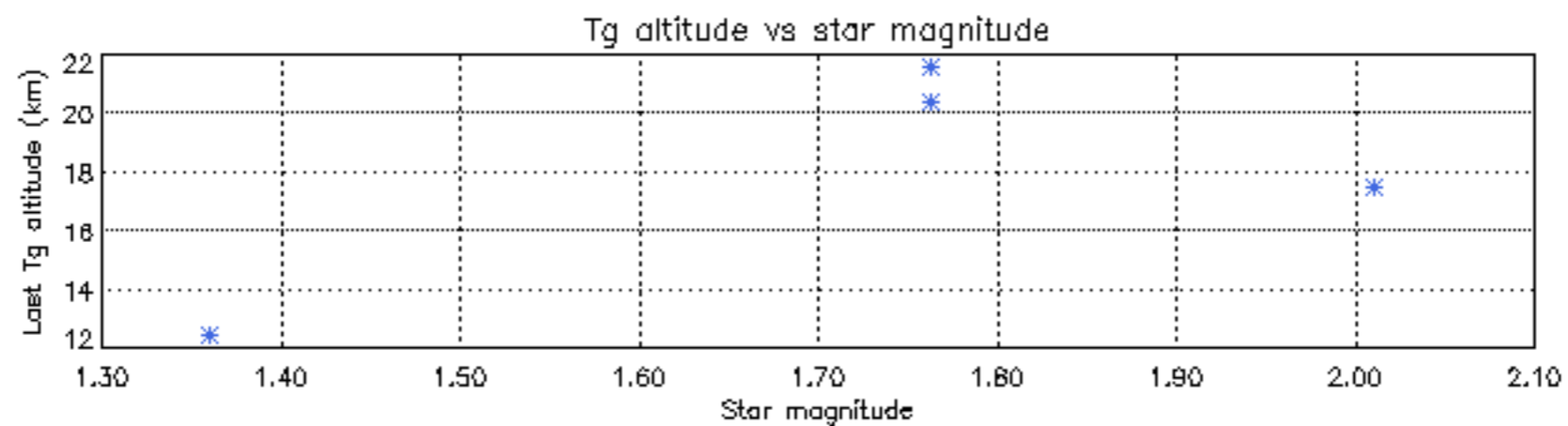
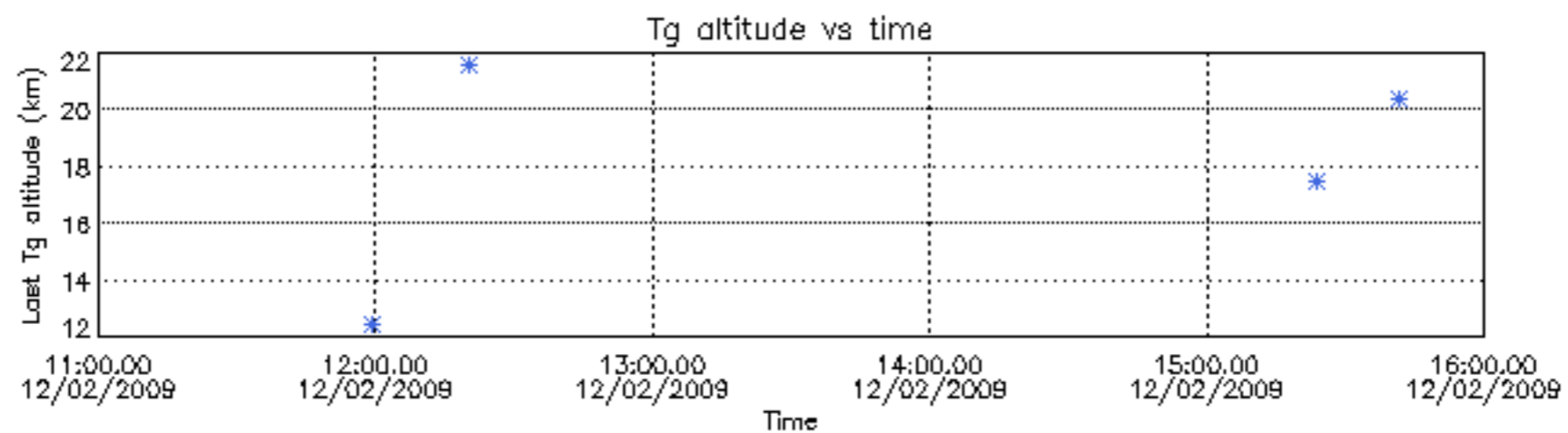
Percentage of saturation errors per profile



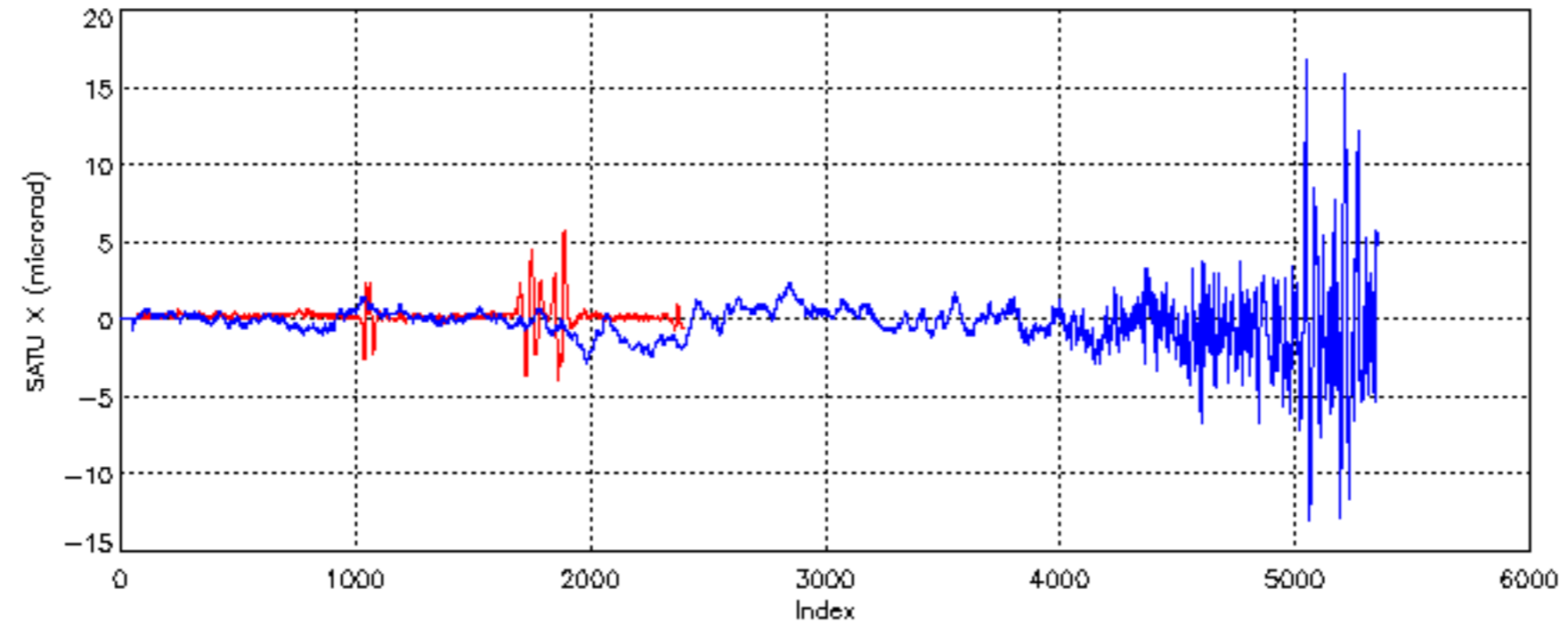
Tangent altitude at which the star is lost

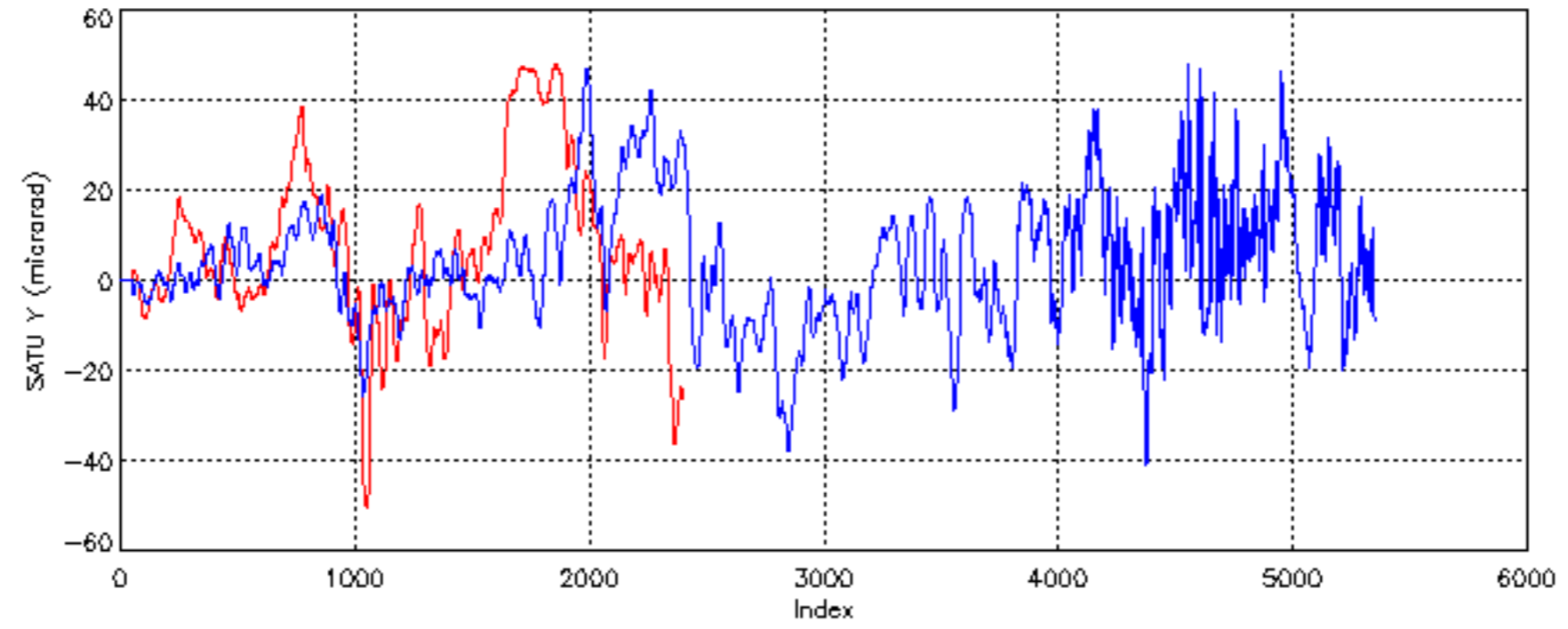


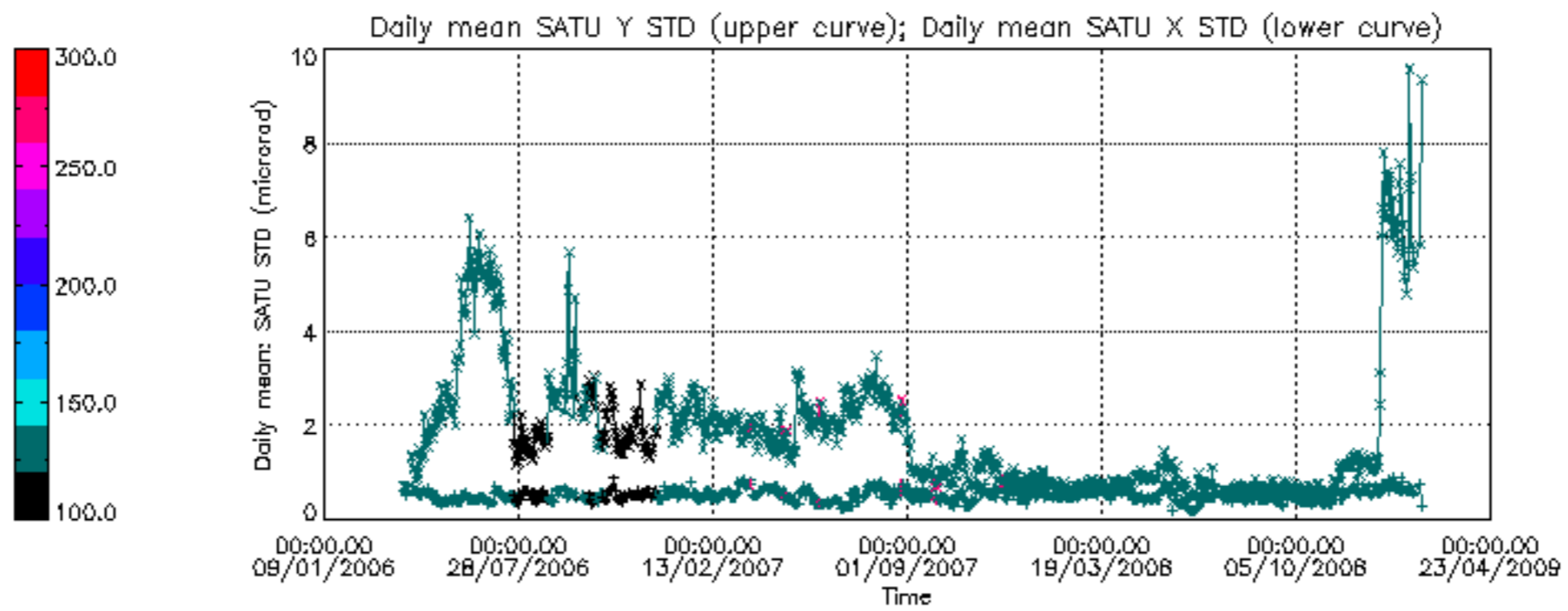
Tangent altitude at which the star is lost











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 5; 109.3; 01-FEB-2009 00:24:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36200  
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 11; 824.5; 01-FEB-2009 00:36:53; Dark ; 30.5; 71; Iot Car ; 2.25; 7700;occ; 61; 0;36200  
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 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  
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 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  
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4; -320.3; 02-FEB-2009 23:14:35; Dark ; 15.5; 40; The Sco ; 1.86; 7100;occ; 31; 0;36227
5; -208.3; 02-FEB-2009 23:16:27; Dark ; 16.0; 147; Alp Ara ; 2.88; 26000;occ; 32; 0;36227
6; -90.2; 02-FEB-2009 23:18:25; Dark ; 20.0; 131; Gam Lup ; 2.80; 26000;occ; 40; 0;36227
7; 212.7; 02-FEB-2009 23:23:28; Dark ; 18.0; 4; Alp1Cen ;-0.01; 5800;occ; 36; 0;36228
8; 286.0; 02-FEB-2009 23:24:41; Dark ; 18.5; 10; Bet Cen ; 0.61; 28000;occ; 37; 0;36228
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11; 718.9; 02-FEB-2009 23:31:54; Dark ; 16.5; 159; Ups Car ; 2.92; 7200;occ; 33; 0;36228
12; 834.0; 02-FEB-2009 23:33:49; Dark ; 16.0; 71; Iot Car ; 2.25; 7700;occ; 32; 0;36228
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16; 1417.8; 02-FEB-2009 23:43:33; Dark ; 15.5; 88; 31Eta CMA ; 2.45; 20000;occ; 31; 0;36228
17; 1993.6; 02-FEB-2009 23:53:09; Dark ; 16.5; 8; 10Alp CMI ; 0.40; 6500;occ; 33; 0;36228
18; 2345.5; 02-FEB-2009 23:59:00; Bright; 16.5; 170; 27Eps Gem ; 3.00; 9700;occ; 33; 0;36228
19; 2453.0; 03-FEB-2009 00:00:48; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36228
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21; 3605.6; 03-FEB-2009 00:20:01; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;36228
22; 3890.9; 03-FEB-2009 00:24:46; Bright; 13.5; 119; 14Eta Dra ; 2.73; 4700;occ; 27; 0;36228
23; 4086.2; 03-FEB-2009 00:28:01; Bright; 12.0; 130; 23Bet Dra ; 2.80; 5800;occ; 24; 0;36228
24; 4309.2; 03-FEB-2009 00:31:44; Bright; 11.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 22; 0;36228
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2; -1949.3; 02-FEB-2009 06:01:26; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36217
3; -1728.1; 02-FEB-2009 06:05:08; Bright; 11.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 23; 0;36217
4; -1232.0; 02-FEB-2009 06:13:24; Bright; 13.0; 59; 55Alp Oph ; 2.08; 8900;occ; 26; 0;36217
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11; 122.0; 02-FEB-2009 06:35:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36218
12; 206.7; 02-FEB-2009 06:37:22; Dark ; 19.0; 4; Alp1Cen ;-0.01; 5800;occ; 38; 0;36218
13; 279.8; 02-FEB-2009 06:38:35; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36218
14; 482.2; 02-FEB-2009 06:41:58; Dark ; 19.0; 12; Alp1Cru ; 0.77; 30000;occ; 38; 0;36218
15; 608.6; 02-FEB-2009 06:44:04; Dark ; 21.0; 99; Del Cen ; 2.58; 26000;occ; 42; 0;36218
16; 715.9; 02-FEB-2009 06:45:52; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36218
17; 830.9; 02-FEB-2009 06:47:47; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36218
18; 935.0; 02-FEB-2009 06:49:31; Dark ; 16.5; 46; Del Vel ; 1.95; 10600;occ; 33; 0;36218
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20; 1210.2; 02-FEB-2009 06:54:06; Dark ; 16.5; 70; Zet Pup ; 2.25; 39000;occ; 33; 0;36218
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3; 2454.2; 02-FEB-2009 07:14:50; Bright; 17.5; 24; 66Alp Gem ; 1.58; 10200;occ; 35; 0;36218
4; 3428.3; 02-FEB-2009 07:31:04; Bright; 15.0; 49; 1Alp UMi ; 1.99; 6300;occ; 30; 0;36218
5; 3607.9; 02-FEB-2009 07:34:04; Bright; 16.0; 60; 7Bet UMi ; 2.08; 3950;occ; 32; 0;36218
6; 3892.7; 02-FEB-2009 07:38:48; Bright; 14.5; 119; 14Eta Dra ; 2.73; 4700;occ; 29; 0;36218
7; 4086.4; 02-FEB-2009 07:42:02; Bright; 13.0; 130; 23Bet Dra ; 2.80; 5800;occ; 26; 0;36218
8; 4307.7; 02-FEB-2009 07:45:43; Bright; 12.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 24; 0;36218
9; 4803.8; 02-FEB-2009 07:53:59; Bright; 13.5; 59; 55Alp Oph ; 2.08; 8900;occ; 27; 0;36218
10; 4932.9; 02-FEB-2009 07:56:09; Bright; 13.0; 126; 60Bet Oph ; 2.77; 4250;occ; 26; 0;36218
11; 5325.6; 02-FEB-2009 08:02:41; Dark ; 16.0; 86; 35Eta Oph ; 2.43; 10200;occ; 32; 0;36218
12; 5588.5; 02-FEB-2009 08:07:04; Dark ; 19.0; 16; 21Alp Sco ; 1.02; 3000;occ; 38; 0;36218
13; 5712.4; 02-FEB-2009 08:09:08; Dark ; 16.5; 40; The Sco ; 1.86; 7100;occ; 33; 0;36218
14; 5825.0; 02-FEB-2009 08:11:01; Dark ; 16.5; 147; Alp Ara ; 2.88; 26000;occ; 33; 0;36218
15; 5938.2; 02-FEB-2009 08:12:54; Dark ; 20.5; 131; Gam Lup ; 2.80; 26000;occ; 41; 0;36218
16; 6074.5; 02-FEB-2009 08:15:10; Dark ; 21.5; 109; Bet Lup ; 2.68; 26000;occ; 43; 0;36218
17; 6158.7; 02-FEB-2009 08:16:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36218
18; 6243.3; 02-FEB-2009 08:17:59; Dark ; 19.0; 4; Alp1Cen ;-0.01; 5800;occ; 38; 0;36218
19; 6316.5; 02-FEB-2009 08:19:12; Dark ; 19.0; 10; Bet Cen ; 0.61; 28000;occ; 38; 0;36218

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 22; 6752.1; 02-FEB-2009 08:26:28; Dark ; 17.0; 159; Ups Car ; 2.92; 7200;occ; 34; 0;36218  
 23; 6867.0; 02-FEB-2009 08:28:23; Dark ; 17.0; 71; Iot Car ; 2.25; 7700;occ; 34; 0;36218  
 24; 6971.1; 02-FEB-2009 08:30:07; Dark ; 17.0; 46; Del Vel ; 1.95; 10600;occ; 34; 0;36218  
 25; 7121.5; 02-FEB-2009 08:32:37; Dark ; 16.5; 34; Gam2Vel ; 1.79; 23000;occ; 33; 0;36218  
 26; 7246.4; 02-FEB-2009 08:34:42; Dark ; 16.5; 70; Zet Pup ; 2.25; 39000;occ; 33; 0;36218  
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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  
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 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  
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 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  
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 5; 3607.7; 02-FEB-2009 10:55:15; Bright; 15.5; 60; 7Bet UMi ; 2.08; 3950;occ; 31; 0;36220  
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 7; 4086.4; 02-FEB-2009 11:03:14; Bright; 12.5; 130; 23Bet Dra ; 2.80; 5800;occ; 25; 0;36220  
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 17; 6244.5; 02-FEB-2009 11:39:12; Dark ; 19.0; 4; Alp1Cen ; -0.01; 5800;occ; 38; 0;36220  
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 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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6; 3892.0; 02-FEB-2009 12:40:35; Bright; 14.5; 119; 14Eta Dra ; 2.73; 4700;occ; 29; 0;36221  
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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  
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26; 7247.0; 02-FEB-2009 13:36:30; Dark ; 16.5; 70; Zet Pup ; 2.25; 39000;occ; 33; 0;36221  
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6; -1098.8; 03-FEB-2009 07:24:36; Bright; 12.0; 126; 60Bet Oph ; 2.77; 4250;occ; 24; 0;36232
7; -702.9; 03-FEB-2009 07:31:12; Dark ; 14.5; 86; 35Eta Oph ; 2.43; 10200;occ; 29; 0;36232
8; -549.9; 03-FEB-2009 07:33:45; Dark ; 14.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 28; 0;36232
9; -436.9; 03-FEB-2009 07:35:38; Dark ; 17.5; 16; 21Alp Sco ; 1.02; 3000;occ; 35; 0;36232
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11; -207.0; 03-FEB-2009 07:39:28; Dark ; 15.0; 147; Alp Ara ; 2.88; 26000;occ; 30; 0;36232
12; -86.0; 03-FEB-2009 07:41:29; Dark ; 19.5; 131; Gam Lup ; 2.80; 26000;occ; 39; 0;36232
13; 51.3; 03-FEB-2009 07:43:46; Dark ; 20.5; 109; Bet Lup ; 2.68; 26000;occ; 41; 0;36233
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 19; 720.6; 03-FEB-2009 07:54:55; Dark ; 16.0; 159; Ups Car ; 2.92; 7200;occ; 32; 0;36233  
 20; 835.4; 03-FEB-2009 07:56:50; Dark ; 15.5; 71; Iot Car ; 2.25; 7700;occ; 31; 0;36233  
 21; 938.9; 03-FEB-2009 07:58:34; Dark ; 15.5; 46; Del Vel ; 1.95; 10600;occ; 31; 0;36233  
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 23; 1213.4; 03-FEB-2009 08:03:08; Dark ; 15.0; 70; Zet Pup ; 2.25; 39000;occ; 30; 0;36233  
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 6; 3889.7; 03-FEB-2009 08:47:44; Bright; 12.5; 119; 14Eta Dra ; 2.73; 4700;occ; 25; 0;36233  
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 11; 5333.5; 03-FEB-2009 09:11:48; Dark ; 14.5; 86; 35Eta Oph ; 2.43; 10200;occ; 29; 0;36233  
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 13; 5599.5; 03-FEB-2009 09:16:14; Dark ; 17.5; 16; 21Alp Sco ; 1.02; 3000;occ; 35; 0;36233  
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 18; 6169.3; 03-FEB-2009 09:25:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36233  
 19; 6251.4; 03-FEB-2009 09:27:06; Dark ; 18.0; 4; Alp1Cen ; -0.01; 5800;occ; 36; 0;36233  
 20; 6325.3; 03-FEB-2009 09:28:20; Dark ; 17.5; 10; Bet Cen ; 0.61; 28000;occ; 35; 0;36233  
 21; 6526.5; 03-FEB-2009 09:31:41; Dark ; 17.0; 12; Alp1Cru ; 0.77; 30000;occ; 34; 0;36233  
 22; 6656.8; 03-FEB-2009 09:33:52; Dark ; 19.0; 99; Del Cen ; 2.58; 26000;occ; 38; 0;36233  
 23; 6756.6; 03-FEB-2009 09:35:31; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36233  
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 27; 7249.6; 03-FEB-2009 09:43:44; Dark ; 14.5; 70; Zet Pup ; 2.25; 39000;occ; 29; 0;36233  
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 3; 2452.6; 03-FEB-2009 10:04:23; Bright; 16.0; 24; 66Alp Gem ; 1.58; 10200;occ; 32; 0;36234  
 4; 3427.9; 03-FEB-2009 10:20:39; Bright; 14.0; 49; 1Alp UMi ; 1.99; 6300;occ; 28; 0;36234  
 5; 3604.0; 03-FEB-2009 10:23:35; Bright; 14.0; 60; 7Bet UMi ; 2.08; 3950;occ; 28; 0;36234  
 6; 3889.3; 03-FEB-2009 10:28:20; Bright; 13.0; 119; 14Eta Dra ; 2.73; 4700;occ; 26; 0;36234  
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 11; 5334.3; 03-FEB-2009 10:52:25; Dark ; 14.5; 86; 35Eta Oph ; 2.43; 10200;occ; 29; 0;36234  
 12; 5486.7; 03-FEB-2009 10:54:57; Dark ; 13.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 27; 0;36234  
 13; 5600.2; 03-FEB-2009 10:56:51; Dark ; 17.5; 16; 21Alp Sco ; 1.02; 3000;occ; 35; 0;36234  
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 21; 6527.0; 03-FEB-2009 11:12:18; Dark ; 17.0; 12; Alp1Cru ; 0.77; 30000;occ; 34; 0;36234  
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 23; 6756.9; 03-FEB-2009 11:16:08; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36234  
 24; 6871.9; 03-FEB-2009 11:18:03; Dark ; 15.5; 71; Iot Car ; 2.25; 7700;occ; 31; 0;36234  
 25; 6975.5; 03-FEB-2009 11:19:46; Dark ; 15.0; 46; Del Vel ; 1.95; 10600;occ; 30; 0;36234  
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 27; 7249.8; 03-FEB-2009 11:24:20; Dark ; 15.0; 70; Zet Pup ; 2.25; 39000;occ; 30; 0;36234  
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 22; 6658.0; 03-FEB-2009 12:55:05; Dark ; 19.5; 99; Del Cen ; 2.58; 26000;occ; 39; 0;36235  
 23; 6757.1; 03-FEB-2009 12:56:44; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36235  
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 12; 5487.4; 03-FEB-2009 14:16:10; Dark ; 13.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 27; 0;36236  
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 16; 5953.5; 03-FEB-2009 14:23:56; Dark ; 18.5; 131; Gam Lup ; 2.80; 26000;occ; 37; 0;36236  
 17; 6091.2; 03-FEB-2009 14:26:14; Dark ; 19.5; 109; Bet Lup ; 2.68; 26000;occ; 39; 0;36236  
 18; 6171.5; 03-FEB-2009 14:27:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36236  
 19; 6253.6; 03-FEB-2009 14:28:56; Dark ; 17.0; 4; Alp1Cen ;-0.01; 5800;occ; 34; 0;36236  
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 21; 6528.2; 03-FEB-2009 14:33:31; Dark ; 16.5; 12; Alp1Cru ; 0.77; 30000;occ; 33; 0;36236  
 22; 6659.3; 03-FEB-2009 14:35:42; Dark ; 18.5; 99; Del Cen ; 2.58; 26000;occ; 37; 0;36236  
 23; 6757.5; 03-FEB-2009 14:37:20; Dark ; 15.5; 159; Ups Car ; 2.92; 7200;occ; 31; 0;36236  
 24; 6872.8; 03-FEB-2009 14:39:15; Dark ; 15.0; 71; Iot Car ; 2.25; 7700;occ; 30; 0;36236  
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 10; 4810.5; 03-FEB-2009 15:45:29; Bright; 10.5; 59; 55Alp Oph ; 2.08; 8900;occ; 21; 0;36237  
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