

# GOMOS Daily Report 29-JUN-2010

## 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	02JUL2010 04:48:57
Data source version	GOMOS/5.01
Start time of products	29JUN2010 00:01:07
Stop time of products	29JUN2010 23:53:02
Store outputs in DB	Yes
Nb of level 1b prods	109
Nb of prods with errors	0

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

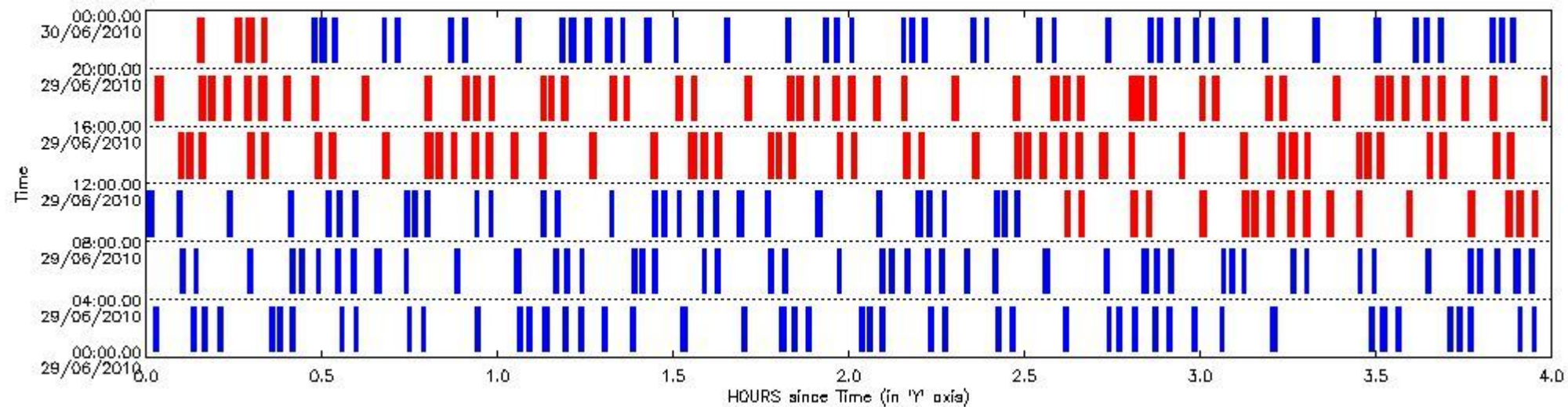
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
29-JUN-2010 10:36:50	60BetOph	126	43549
29-JUN-2010 10:39:10	55AlpOph	59	43549
29-JUN-2010 10:48:12	3AlpLyr	5	43549
29-JUN-2010 10:50:40	23BetDra	130	43549
29-JUN-2010 10:59:48	5AlpCep	89	43549
29-JUN-2010 11:07:05	11BetCas	74	43549
29-JUN-2010 11:08:45	18AlpCas	68	43549
29-JUN-2010 11:11:31	23GamPer	160	43549
29-JUN-2010 11:14:55	57Gam1And	73	43549
29-JUN-2010 11:17:30	4BetTri	173	43549
29-JUN-2010 11:21:38	13AlpAri	50	43549
29-JUN-2010 11:26:34	92AlpCet	94	43549
29-JUN-2010 11:35:08	DSA1066	0	43549
29-JUN-2010 11:45:35	AlpPhe	84	43550
29-JUN-2010 11:52:05	BetGru	63	43550

29-JUN-2010 11:54:03	AlpGru	31	43550
29-JUN-2010 11:56:36	AlpPav	45	43550
29-JUN-2010 12:05:30	20EpsSgr	38	43550
29-JUN-2010 12:06:53	19DelSgr	116	43550
29-JUN-2010 12:08:59	41PiSgr	155	43550
29-JUN-2010 12:17:26	60BetOph	126	43550
29-JUN-2010 12:19:46	55AlpOph	59	43550
29-JUN-2010 12:28:47	3AlpLyr	5	43550
29-JUN-2010 12:31:16	23BetDra	130	43550
29-JUN-2010 12:40:24	5AlpCep	89	43550
29-JUN-2010 12:47:41	11BetCas	74	43550
29-JUN-2010 12:49:21	18AlpCas	68	43550
29-JUN-2010 12:52:07	23GamPer	160	43550
29-JUN-2010 12:55:31	57Gam1And	73	43550
29-JUN-2010 12:58:06	4BetTri	173	43550
29-JUN-2010 13:02:15	13AlpAri	50	43550
29-JUN-2010 13:07:10	92AlpCet	94	43550
29-JUN-2010 13:15:45	DSA1066	0	43550
29-JUN-2010 13:26:12	AlpPhe	84	43551
29-JUN-2010 13:32:42	BetGru	63	43551
29-JUN-2010 13:34:40	AlpGru	31	43551
29-JUN-2010 13:37:13	AlpPav	45	43551
29-JUN-2010 13:46:07	20EpsSgr	38	43551
29-JUN-2010 13:47:29	19DelSgr	116	43551
29-JUN-2010 13:49:35	41PiSgr	155	43551
29-JUN-2010 13:58:01	60BetOph	126	43551
29-JUN-2010 14:00:22	55AlpOph	59	43551
29-JUN-2010 14:09:23	3AlpLyr	5	43551
29-JUN-2010 14:11:52	23BetDra	130	43551
29-JUN-2010 14:20:59	5AlpCep	89	43551
29-JUN-2010 14:28:16	11BetCas	74	43551
29-JUN-2010 14:29:56	18AlpCas	68	43551
29-JUN-2010 14:32:42	23GamPer	160	43551
29-JUN-2010 14:36:07	57Gam1And	73	43551
29-JUN-2010 14:38:42	4BetTri	173	43551
29-JUN-2010 14:42:51	13AlpAri	50	43551
29-JUN-2010 14:47:47	92AlpCet	94	43551
29-JUN-2010 14:56:22	DSA1066	0	43551
29-JUN-2010 15:06:49	AlpPhe	84	43552
29-JUN-2010 15:13:19	BetGru	63	43552
29-JUN-2010 15:15:17	AlpGru	31	43552
29-JUN-2010 15:17:49	AlpPav	45	43552
29-JUN-2010 15:26:43	20EpsSgr	38	43552
29-JUN-2010 15:28:05	19DelSgr	116	43552
29-JUN-2010 15:30:11	41PiSgr	155	43552
29-JUN-2010 15:38:37	60BetOph	126	43552
29-JUN-2010 15:40:58	55AlpOph	59	43552
29-JUN-2010 15:49:58	3AlpLyr	5	43552
29-JUN-2010 15:52:28	23BetDra	130	43552
29-JUN-2010 16:01:34	5AlpCep	89	43552
29-JUN-2010 16:08:52	11BetCas	74	43552
29-JUN-2010 16:10:32	18AlpCas	68	43552
29-JUN-2010 16:13:18	23GamPer	160	43552
29-JUN-2010 16:16:43	57Gam1And	73	43552
29-JUN-2010 16:19:18	4BetTri	173	43552
29-JUN-2010 16:23:27	13AlpAri	50	43552
29-JUN-2010 16:28:23	92AlpCet	94	43552
29-JUN-2010 16:36:58	DSA1066	0	43552
29-JUN-2010 16:47:26	AlpPhe	84	43553

29-JUN-2010 16:53:56	BetGru	63	43553
29-JUN-2010 16:55:54	AlpGru	31	43553
29-JUN-2010 16:58:25	AlpPav	45	43553
29-JUN-2010 17:07:19	20EpsSgr	38	43553
29-JUN-2010 17:08:41	19DelSgr	116	43553
29-JUN-2010 17:10:47	41PiSgr	155	43553
29-JUN-2010 17:19:13	60BetOph	126	43553
29-JUN-2010 17:21:34	55AlpOph	59	43553
29-JUN-2010 17:30:34	3AlpLyr	5	43553
29-JUN-2010 17:33:03	23BetDra	130	43553
29-JUN-2010 17:42:09	5AlpCep	89	43553
29-JUN-2010 17:49:27	11BetCas	74	43553
29-JUN-2010 17:51:07	18AlpCas	68	43553
29-JUN-2010 17:53:54	23GamPer	160	43553
29-JUN-2010 17:57:19	57Gam1And	73	43553
29-JUN-2010 17:59:54	4BetTri	173	43553
29-JUN-2010 18:04:03	13AlpAri	50	43553
29-JUN-2010 18:08:59	92AlpCet	94	43553
29-JUN-2010 18:17:35	DSA1066	0	43553
29-JUN-2010 18:28:03	AlpPhe	84	43554
29-JUN-2010 18:34:33	BetGru	63	43554
29-JUN-2010 18:36:31	AlpGru	31	43554
29-JUN-2010 18:39:02	AlpPav	45	43554
29-JUN-2010 18:47:55	20EpsSgr	38	43554
29-JUN-2010 18:49:17	19DelSgr	116	43554
29-JUN-2010 18:51:23	41PiSgr	155	43554
29-JUN-2010 18:59:49	60BetOph	126	43554
29-JUN-2010 19:02:10	55AlpOph	59	43554
29-JUN-2010 19:11:09	3AlpLyr	5	43554
29-JUN-2010 19:13:39	23BetDra	130	43554
29-JUN-2010 19:22:45	5AlpCep	89	43554
29-JUN-2010 19:30:02	11BetCas	74	43554
29-JUN-2010 19:31:43	18AlpCas	68	43554
29-JUN-2010 19:34:30	23GamPer	160	43554
29-JUN-2010 19:37:55	57Gam1And	73	43554
29-JUN-2010 19:40:30	4BetTri	173	43554
29-JUN-2010 19:44:40	13AlpAri	50	43554
29-JUN-2010 19:49:36	92AlpCet	94	43554
29-JUN-2010 19:58:12	DSA1066	0	43554
29-JUN-2010 20:08:40	AlpPhe	84	43555
29-JUN-2010 20:15:10	BetGru	63	43555
29-JUN-2010 20:17:08	AlpGru	31	43555
29-JUN-2010 20:19:38	AlpPav	45	43555

#### 2.4 Summary of processed GOM\_TRA\_1P products

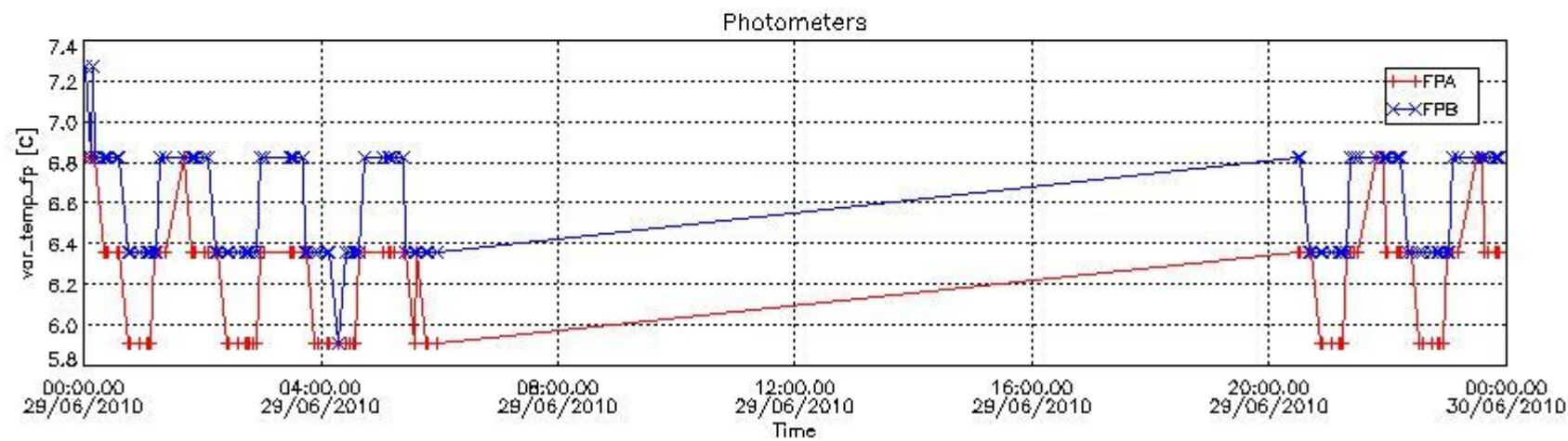
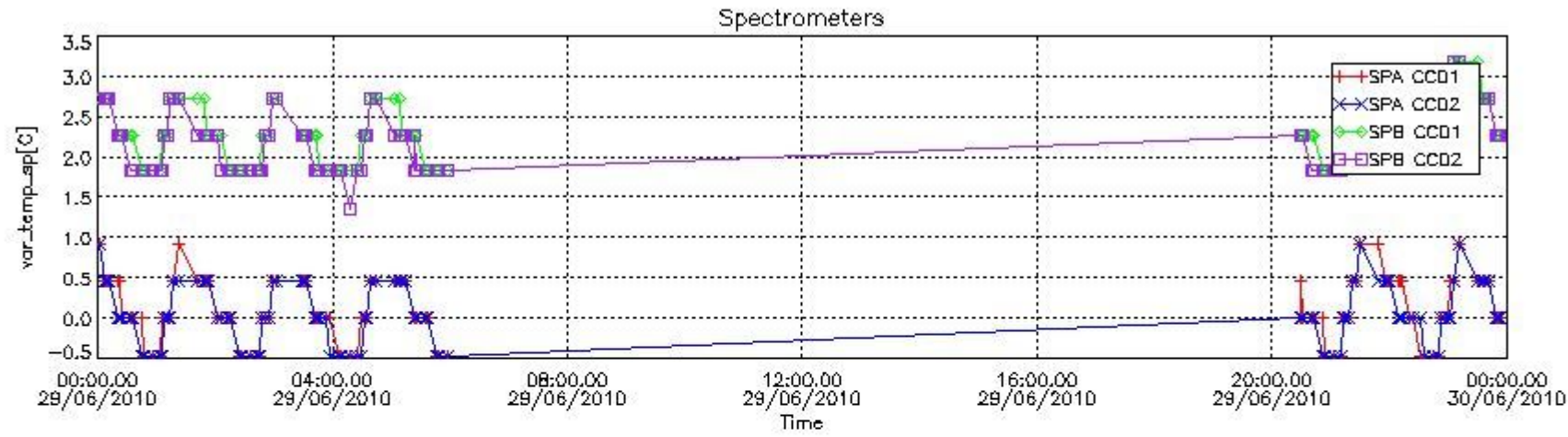
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100629_000107_000000582090_00403_43543_2867.N1	29-JUN-2010 00:01:07	Dark	57.500	84	Alp Phe	2.3970	4500.0	115	43543	No
2	GOM_TRA_1PNPDE20100629_000738_000000522090_00403_43543_2868.N1	29-JUN-2010 00:07:38	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	43543	No
3	GOM_TRA_1PNPDE20100629_000936_000000492090_00403_43543_2869.N1	29-JUN-2010 00:09:36	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	43543	No
4	GOM_TRA_1PNPDE20100629_001212_000000502090_00403_43543_2870.N1	29-JUN-2010 00:12:12	Straylight	49.500	45	Alp Pav	1.9400	26000.	99	43543	No
5	GOM_TRA_1PNPDE20100629_002107_000000442090_00403_43543_2871.N1	29-JUN-2010 00:21:07	Twilight_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	43543	No
6	GOM_TRA_1PNPDE20100629_002230_000000472090_00403_43543_2872.N1	29-JUN-2010 00:22:30	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	43543	No
7	GOM_TRA_1PNPDE20100629_002437_000000482090_00403_43543_2873.N1	29-JUN-2010 00:24:37	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	43543	No
8	GOM_TRA_1PNPDE20100629_003305_000000392090_00403_43543_2874.N1	29-JUN-2010 00:33:05	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	43543	No
9	GOM_TRA_1PNPDE20100629_003526_000000382090_00403_43543_2875.N1	29-JUN-2010 00:35:26	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	43543	No
10	GOM_TRA_1PNPDE20100629_004430_000000422090_00403_43543_2876.N1	29-JUN-2010 00:44:30	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	43543	No
11	GOM_TRA_1PNPDE20100629_004657_000000382090_00403_43543_2877.N1	29-JUN-2010 00:46:57	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	43543	No

12	GOM_TRA_1PNPDE20100629_005607_000000452090_00403_43543_2878.N1	29-JUN-2010 00:56:07	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	43543	No
13	GOM_TRA_1PNPDE20100629_010323_000000482090_00403_43543_2879.N1	29-JUN-2010 01:03:23	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	43543	No
14	GOM_TRA_1PNPDE20100629_010502_000000512090_00403_43543_2880.N1	29-JUN-2010 01:05:02	Bright	50.500	68	18Alp Cas	2.2250	4500.0	101	43543	No
15	GOM_TRA_1PNPDE20100629_010746_000000552090_00403_43543_2881.N1	29-JUN-2010 01:07:46	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43543	No
16	GOM_TRA_1PNPDE20100629_011110_000000492090_00403_43543_2882.N1	29-JUN-2010 01:11:10	Bright	49.000	73	57Gam1And	2.2600	13100.	98	43543	No
17	GOM_TRA_1PNPDE20100629_011344_000000472090_00403_43543_2883.N1	29-JUN-2010 01:13:44	Tw_i_and_stray	46.500	173	4Bet Tri	3.0040	8900.0	93	43543	No
18	GOM_TRA_1PNPDE20100629_011751_000000532090_00403_43543_2884.N1	29-JUN-2010 01:17:51	Dark	52.500	50	13Alp Ari	2.0070	4250.0	105	43543	No
19	GOM_TRA_1PNPDE20100629_012246_000000402090_00403_43543_2885.N1	29-JUN-2010 01:22:46	Dark	39.500	94	92Alp Cet	2.5260	3100.0	79	43543	No
20	GOM_TRA_1PNPDE20100629_014144_000000482090_00404_43544_2900.N1	29-JUN-2010 01:41:44	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	43544	No
21	GOM_TRA_1PNPDE20100629_014815_000000652090_00404_43544_2901.N1	29-JUN-2010 01:48:15	Straylight	64.500	63	Bet Gru	2.1500	2800.0	129	43544	No
22	GOM_TRA_1PNPDE20100629_015013_000000492090_00404_43544_2902.N1	29-JUN-2010 01:50:13	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43544	No
23	GOM_TRA_1PNPDE20100629_015248_000000432090_00404_43544_2903.N1	29-JUN-2010 01:52:48	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43544	No
24	GOM_TRA_1PNPDE20100629_020144_000000452090_00404_43544_2904.N1	29-JUN-2010 02:01:44	Tw_i_and_stray	44.500	38	20Eps Sgr	1.8360	11000.	89	43544	No
25	GOM_TRA_1PNPDE20100629_020306_000000492090_00404_43544_2905.N1	29-JUN-2010 02:03:06	Bright	48.500	116	19Del Sgr	2.7000	4100.0	97	43544	No
26	GOM_TRA_1PNPDE20100629_020513_000000482090_00404_43544_2906.N1	29-JUN-2010 02:05:13	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43544	No
27	GOM_TRA_1PNPDE20100629_021341_000000382090_00404_43544_2907.N1	29-JUN-2010 02:13:41	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	43544	No
28	GOM_TRA_1PNPDE20100629_021602_000000382090_00404_43544_2908.N1	29-JUN-2010 02:16:02	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	43544	No
29	GOM_TRA_1PNPDE20100629_022506_000000472090_00404_43544_2909.N1	29-JUN-2010 02:25:06	Bright	47.000	5	3Alp Lyr	0.033000	11000.	94	43544	No
30	GOM_TRA_1PNPDE20100629_022732_000000402090_00404_43544_2910.N1	29-JUN-2010 02:27:32	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	43544	No
31	GOM_TRA_1PNPDE20100629_023643_000000432090_00404_43544_2911.N1	29-JUN-2010 02:36:43	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	43544	No
32	GOM_TRA_1PNPDE20100629_024359_000000462090_00404_43544_2923.N1	29-JUN-2010 02:43:59	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	43544	No
33	GOM_TRA_1PNPDE20100629_024538_000000512090_00404_43544_2924.N1	29-JUN-2010 02:45:38	Bright	51.000	68	18Alp Cas	2.2250	4500.0	102	43544	No
34	GOM_TRA_1PNPDE20100629_024822_000000552090_00404_43544_2925.N1	29-JUN-2010 02:48:22	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43544	No
35	GOM_TRA_1PNPDE20100629_025146_000000502090_00404_43544_2926.N1	29-JUN-2010 02:51:46	Bright	50.000	73	57Gam1And	2.2600	13100.	100	43544	No
36	GOM_TRA_1PNPDE20100629_025420_000000492090_00404_43544_2927.N1	29-JUN-2010 02:54:20	Tw_i_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	43544	No
37	GOM_TRA_1PNPDE20100629_025827_000000632090_00404_43544_2928.N1	29-JUN-2010 02:58:27	Dark	62.500	50	13Alp Ari	2.0070	4250.0	125	43544	No
38	GOM_TRA_1PNPDE20100629_030323_000000412090_00404_43544_2929.N1	29-JUN-2010 03:03:23	Dark	41.000	94	92Alp Cet	2.5260	3100.0	82	43544	No
39	GOM_TRA_1PNPDE20100629_032851_000000532090_00405_43545_2930.N1	29-JUN-2010 03:28:51	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	43545	No
40	GOM_TRA_1PNPDE20100629_033050_000000512090_00405_43545_2931.N1	29-JUN-2010 03:30:50	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	43545	No
41	GOM_TRA_1PNPDE20100629_033324_000000472090_00405_43545_2932.N1	29-JUN-2010 03:33:24	Straylight	46.500	45	Alp Pav	1.9400	26000.	93	43545	No
42	GOM_TRA_1PNPDE20100629_034220_000000462090_00405_43545_2933.N1	29-JUN-2010 03:42:20	Tw_i_and_stray	46.000	38	20Eps Sgr	1.8360	11000.	92	43545	No
43	GOM_TRA_1PNPDE20100629_034342_000000492090_00405_43545_2934.N1	29-JUN-2010 03:43:42	Bright	49.000	116	19Del Sgr	2.7000	4100.0	98	43545	No
44	GOM_TRA_1PNPDE20100629_034549_000000482090_00405_43545_2935.N1	29-JUN-2010 03:45:49	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43545	No
45	GOM_TRA_1PNPDE20100629_035417_000000382090_00405_43545_2936.N1	29-JUN-2010 03:54:17	Bright	38.000	126	60Bet Oph	2.7700	4250.0	76	43545	No
46	GOM_TRA_1PNPDE20100629_035638_000000382090_00405_43545_2937.N1	29-JUN-2010 03:56:38	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	43545	No
47	GOM_TRA_1PNPDE20100629_040541_000000492090_00405_43545_2938.N1	29-JUN-2010 04:05:41	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	43545	No
48	GOM_TRA_1PNPDE20100629_040808_000000402090_00405_43545_2939.N1	29-JUN-2010 04:08:08	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	43545	No
49	GOM_TRA_1PNPDE20100629_041718_000000442090_00405_43545_2940.N1	29-JUN-2010 04:17:18	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	43545	No
50	GOM_TRA_1PNPDE20100629_042434_000000512090_00405_43545_2947.N1	29-JUN-2010 04:24:34	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	43545	No
51	GOM_TRA_1PNPDE20100629_042613_000000482090_00405_43545_2948.N1	29-JUN-2010 04:26:13	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	43545	No
52	GOM_TRA_1PNPDE20100629_042858_000000402090_00405_43545_2949.N1	29-JUN-2010 04:28:58	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	43545	No
53	GOM_TRA_1PNPDE20100629_043222_000000482090_00405_43545_2950.N1	29-JUN-2010 04:32:22	Bright	47.500	73	57Gam1And	2.2600	13100.	95	43545	No
54	GOM_TRA_1PNPDE20100629_043456_000000492090_00405_43545_2951.N1	29-JUN-2010 04:34:56	Tw_i_and_stray	48.500	173	4Bet Tri	3.0040	8900.0	97	43545	No
55	GOM_TRA_1PNPDE20100629_043904_000000602090_00405_43545_2952.N1	29-JUN-2010 04:39:04	Dark	59.500	50	13Alp Ari	2.0070	4250.0	119	43545	No
56	GOM_TRA_1PNPDE20100629_044359_000000422090_00405_43545_2953.N1	29-JUN-2010 04:43:59	Dark	42.000	94	92Alp Cet	2.5260	3100.0	84	43545	No
57	GOM_TRA_1PNPDE20100629_050258_000000502090_00406_43546_2954.N1	29-JUN-2010 05:02:58	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	43546	No
58	GOM_TRA_1PNPDE20100629_050929_000000502090_00406_43546_2955.N1	29-JUN-2010 05:09:29	Straylight	49.500	63	Bet Gru	2.1500	2800.0	99	43546	No
59	GOM_TRA_1PNPDE20100629_051127_000000492090_00406_43546_2956.N1	29-JUN-2010 05:11:27	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	43546	No
60	GOM_TRA_1PNPDE20100629_051401_000000432090_00406_43546_2957.N1	29-JUN-2010 05:14:01	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43546	No
61	GOM_TRA_1PNPDE20100629_052256_000000442090_00406_43546_2958.N1	29-JUN-2010 05:22:56	Tw_i_and_stray	44.000	38	20Eps Sgr	1.8360	11000.	88	43546	No
62	GOM_TRA_1PNPDE20100629_052419_000000502090_00406_43546_2959.N1	29-JUN-2010 05:24:19	Bright	49.500	116	19Del Sgr	2.7000	4100.0	99	43546	No
63	GOM_TRA_1PNPDE20100629_052625_000000462090_00406_43546_2960.N1	29-JUN-2010 05:26:25	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	43546	No
64	GOM_TRA_1PNPDE20100629_053453_000000382090_00406_43546_2961.N1	29-JUN-2010 05:34:53	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	43546	No
65	GOM_TRA_1PNPDE20100629_053714_000000382090_00406_43546_2962.N1	29-JUN-2010 05:37:14	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	43546	No
66	GOM_TRA_1PNPDE20100629_054616_000000492090_00406_43546_2963.N1	29-JUN-2010 05:46:16	Bright	48.500	5	3Alp Lyr	0.033000	11000.	97	43546	No
67	GOM_TRA_1PNPDE20100629_054844_000000382090_00406_43546_2964.N1	29-JUN-2010 05:48:44	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	43546	No
68	GOM_TRA_1PNPDE20100629_055753_000000472090_00406_43546_2965.N1	29-JUN-2010 05:57:53	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	43546	No
69	GOM_TRA_1PNPDE20100629_202822_000000432090_00415_43555_3066.N1	29-JUN-2010 20:28:22	Tw_i_and_stray	42.500	38	20Eps Sgr	1.8360	11000.	85	43555	No
70	GOM_TRA_1PNPDE20100629_202944_000000522090_00415_43555_3067.N1	29-JUN-2010 20:29:44	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	43555	No



71	GOM_TRA_1PNPDE20100629_203150_000000472090_00415_43555_3068.N1	29-JUN-2010 20:31:50	Bright	47.000	155	41Pi Sgr	2.9000	6600.0	94	43555	No
72	GOM_TRA_1PNPDE20100629_204016_000000372090_00415_43555_3069.N1	29-JUN-2010 20:40:16	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	43555	No
73	GOM_TRA_1PNPDE20100629_204236_000000382090_00415_43555_3070.N1	29-JUN-2010 20:42:36	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	43555	No
74	GOM_TRA_1PNPDE20100629_205135_000000422090_00415_43555_3071.N1	29-JUN-2010 20:51:35	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	43555	No
75	GOM_TRA_1PNPDE20100629_205406_000000402090_00415_43555_3072.N1	29-JUN-2010 20:54:06	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43555	No
76	GOM_TRA_1PNPDE20100629_210311_000000482090_00415_43555_3073.N1	29-JUN-2010 21:03:11	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43555	No
77	GOM_TRA_1PNPDE20100629_211029_000000492090_00415_43555_3074.N1	29-JUN-2010 21:10:29	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43555	No
78	GOM_TRA_1PNPDE20100629_211209_000000692090_00415_43555_3075.N1	29-JUN-2010 21:12:09	Bright	69.000	68	18Alp Cas	2.2250	4500.0	138	43555	No
79	GOM_TRA_1PNPDE20100629_211457_000000552090_00415_43555_3076.N1	29-JUN-2010 21:14:57	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43555	No
80	GOM_TRA_1PNPDE20100629_211821_000000632090_00415_43555_3077.N1	29-JUN-2010 21:18:21	Bright	63.000	73	57Gam1And	2.2600	13100.	126	43555	No
81	GOM_TRA_1PNPDE20100629_212057_000000472090_00415_43555_3078.N1	29-JUN-2010 21:20:57	Twilight	47.000	173	4Bet Tri	3.0040	8900.0	94	43555	No
82	GOM_TRA_1PNPDE20100629_212507_000000572090_00415_43555_3079.N1	29-JUN-2010 21:25:07	Dark	57.000	50	13Alp Ari	2.0070	4250.0	114	43555	No
83	GOM_TRA_1PNPDE20100629_213003_000000472090_00415_43555_3080.N1	29-JUN-2010 21:30:03	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	43555	No
84	GOM_TRA_1PNPDE20100629_214908_000000592090_00416_43556_3090.N1	29-JUN-2010 21:49:08	Dark	58.500	84	Alp Phe	2.3970	4500.0	117	43556	No
85	GOM_TRA_1PNPDE20100629_215538_000000532090_00416_43556_3091.N1	29-JUN-2010 21:55:38	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	43556	No
86	GOM_TRA_1PNPDE20100629_215735_000000492090_00416_43556_3092.N1	29-JUN-2010 21:57:35	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	43556	No
87	GOM_TRA_1PNPDE20100629_220005_000000392090_00416_43556_3093.N1	29-JUN-2010 22:00:05	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	43556	No
88	GOM_TRA_1PNPDE20100629_220858_000000432090_00416_43556_3094.N1	29-JUN-2010 22:08:58	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	43556	No
89	GOM_TRA_1PNPDE20100629_221020_000000552090_00416_43556_3095.N1	29-JUN-2010 22:10:20	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	43556	No
90	GOM_TRA_1PNPDE20100629_221226_000000462090_00416_43556_3096.N1	29-JUN-2010 22:12:26	Bright	46.000	155	41Pi Sgr	2.9000	6600.0	92	43556	No
91	GOM_TRA_1PNPDE20100629_222052_000000372090_00416_43556_3097.N1	29-JUN-2010 22:20:52	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	43556	No
92	GOM_TRA_1PNPDE20100629_222312_000000392090_00416_43556_3098.N1	29-JUN-2010 22:23:12	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	43556	No
93	GOM_TRA_1PNPDE20100629_223211_000000412090_00416_43556_3099.N1	29-JUN-2010 22:32:11	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	43556	No
94	GOM_TRA_1PNPDE20100629_223441_000000402090_00416_43556_3100.N1	29-JUN-2010 22:34:41	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	43556	No
95	GOM_TRA_1PNPDE20100629_224346_000000472090_00416_43556_3101.N1	29-JUN-2010 22:43:46	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43556	No
96	GOM_TRA_1PNPDE20100629_225104_000000492090_00416_43556_3102.N1	29-JUN-2010 22:51:04	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43556	No
97	GOM_TRA_1PNPDE20100629_225244_000000492090_00416_43556_3103.N1	29-JUN-2010 22:52:44	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	43556	No
98	GOM_TRA_1PNPDE20100629_225533_000000552090_00416_43556_3104.N1	29-JUN-2010 22:55:33	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	43556	No
99	GOM_TRA_1PNPDE20100629_225857_000000492090_00416_43556_3105.N1	29-JUN-2010 22:58:57	Bright	48.500	73	57Gam1And	2.2600	13100.	97	43556	No
100	GOM_TRA_1PNPDE20100629_230133_000000512090_00416_43556_3106.N1	29-JUN-2010 23:01:33	Twilight	50.500	173	4Bet Tri	3.0040	8900.0	101	43556	No
101	GOM_TRA_1PNPDE20100629_230543_000000602090_00416_43556_3107.N1	29-JUN-2010 23:05:43	Dark	59.500	50	13Alp Ari	2.0070	4250.0	119	43556	No
102	GOM_TRA_1PNPDE20100629_231039_000000402090_00416_43556_3108.N1	29-JUN-2010 23:10:39	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	43556	No
103	GOM_TRA_1PNPDE20100629_232944_000000562090_00417_43557_3115.N1	29-JUN-2010 23:29:44	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	43557	No
104	GOM_TRA_1PNPDE20100629_233615_000000522090_00417_43557_3116.N1	29-JUN-2010 23:36:15	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	43557	No
105	GOM_TRA_1PNPDE20100629_233812_000000492090_00417_43557_3117.N1	29-JUN-2010 23:38:12	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43557	No
106	GOM_TRA_1PNPDE20100629_234042_000000412090_00417_43557_3118.N1	29-JUN-2010 23:40:42	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	43557	No
107	GOM_TRA_1PNPDE20100629_234934_000000442090_00417_43557_3119.N1	29-JUN-2010 23:49:34	Twilight	44.000	38	20Eps Sgr	1.8360	11000.	88	43557	No
108	GOM_TRA_1PNPDE20100629_235057_000000522090_00417_43557_3120.N1	29-JUN-2010 23:50:57	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	43557	No
109	GOM_TRA_1PNPDE20100629_235302_000000482090_00417_43557_3121.N1	29-JUN-2010 23:53:02	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	43557	No

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



#### 4. Overview of dark signal processing per product

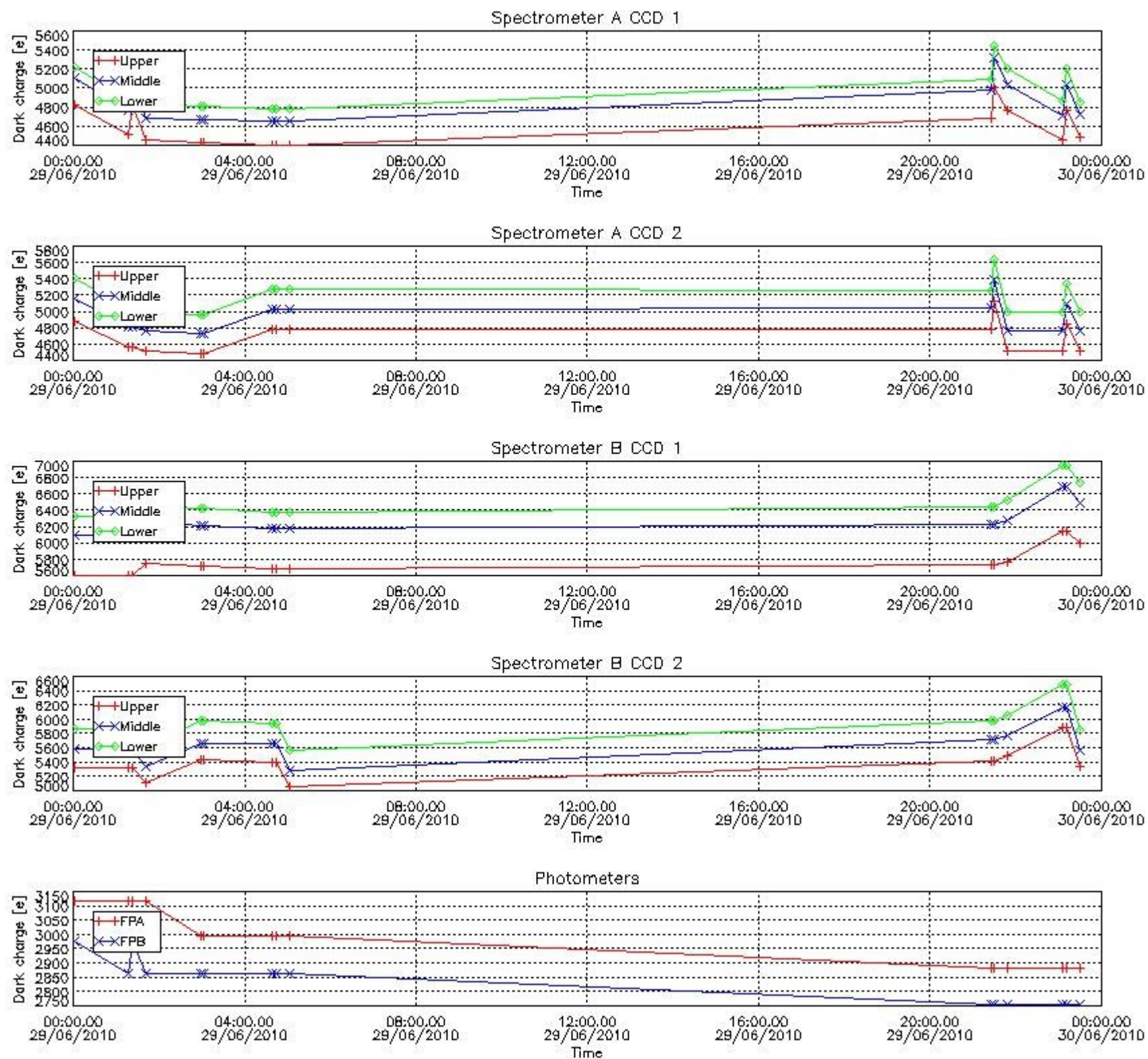
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100629_202822_000000432090_00415_43555_3066.N1	DC map used
GOM_TRA_1PNPDE20100629_202944_000000522090_00415_43555_3067.N1	DC map used
GOM_TRA_1PNPDE20100629_203150_000000472090_00415_43555_3068.N1	DC map used
GOM_TRA_1PNPDE20100629_204016_000000372090_00415_43555_3069.N1	DC map used
GOM_TRA_1PNPDE20100629_204236_000000382090_00415_43555_3070.N1	DC map used
GOM_TRA_1PNPDE20100629_205135_000000422090_00415_43555_3071.N1	DC map used
GOM_TRA_1PNPDE20100629_205406_000000402090_00415_43555_3072.N1	DC map used
GOM_TRA_1PNPDE20100629_210311_000000482090_00415_43555_3073.N1	DC map used
GOM_TRA_1PNPDE20100629_211029_000000492090_00415_43555_3074.N1	DC map used
GOM_TRA_1PNPDE20100629_211209_000000692090_00415_43555_3075.N1	DC map used
GOM_TRA_1PNPDE20100629_211457_000000552090_00415_43555_3076.N1	DC map used
GOM_TRA_1PNPDE20100629_211821_000000632090_00415_43555_3077.N1	DC map used
GOM_TRA_1PNPDE20100629_212057_000000472090_00415_43555_3078.N1	DC map used
GOM_TRA_1PNPDE20100629_212507_000000572090_00415_43555_3079.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

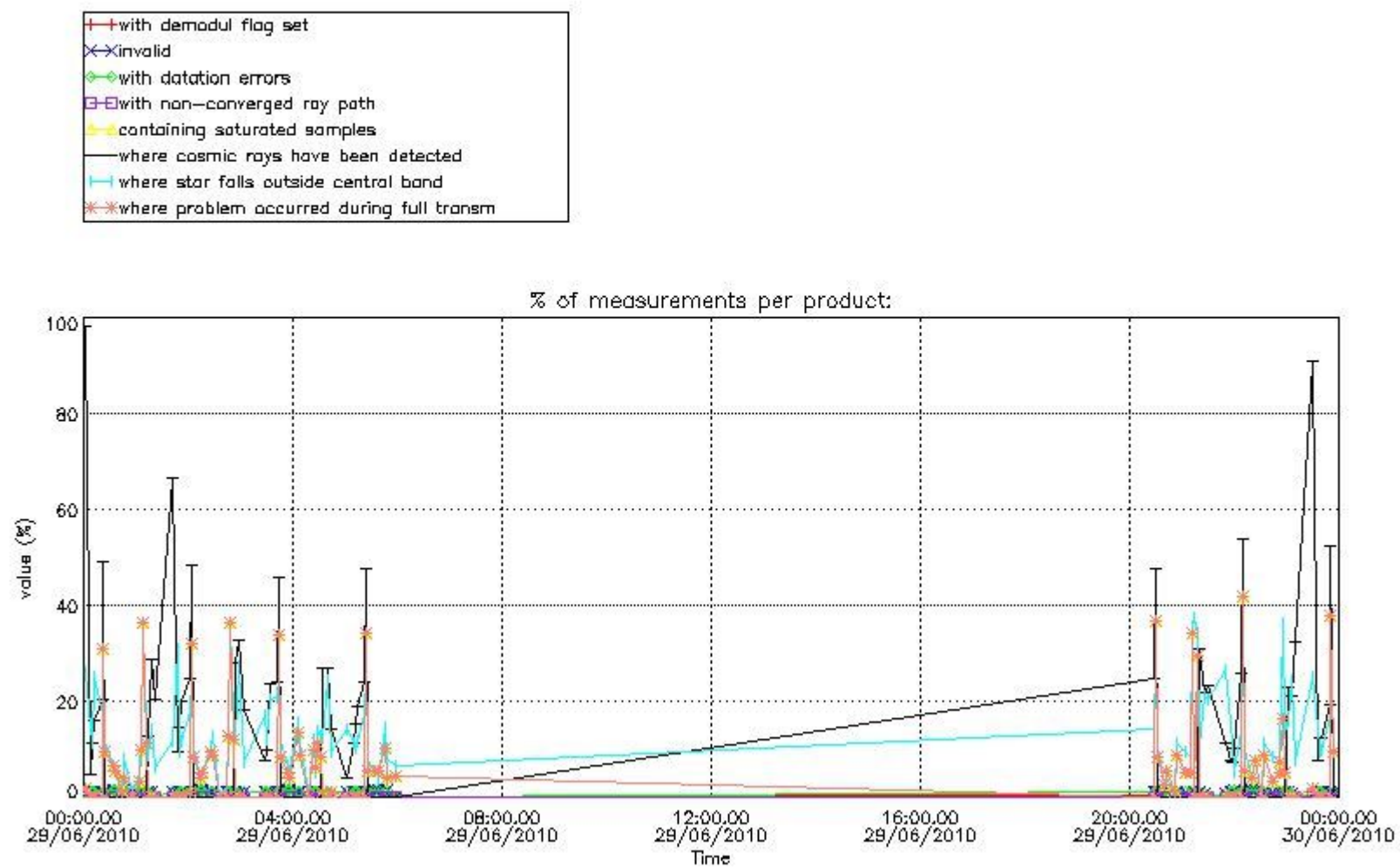
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.



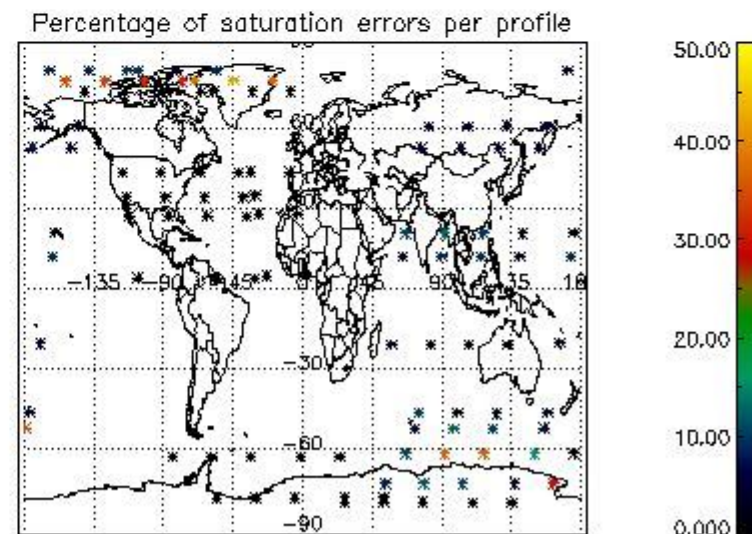
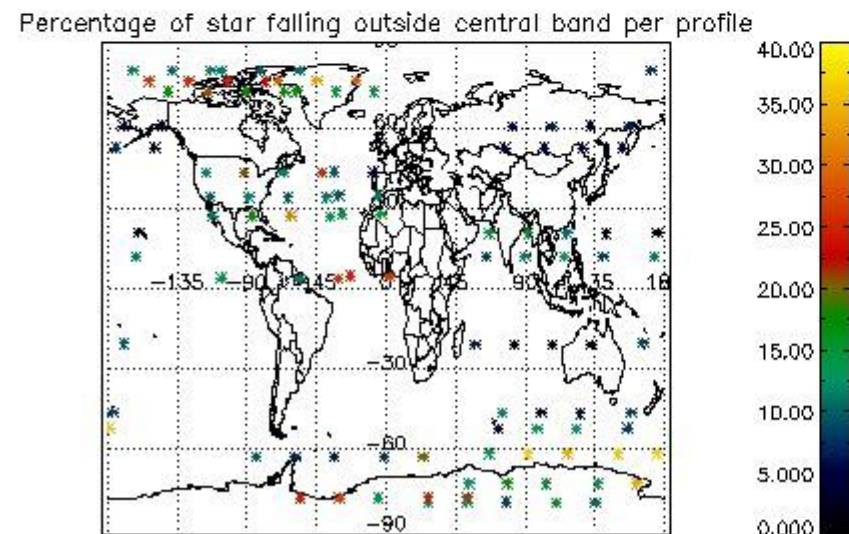
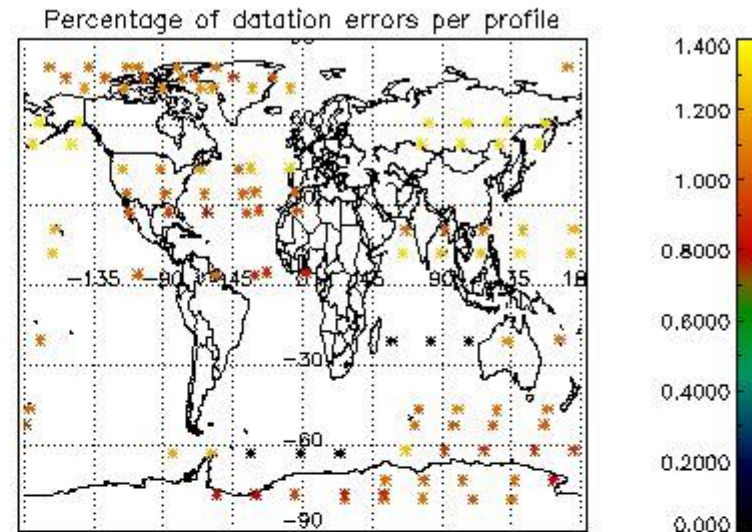
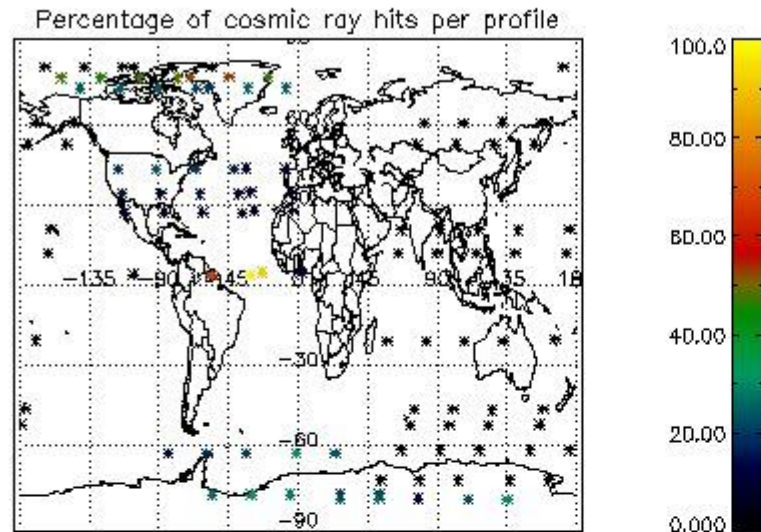
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.6972 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



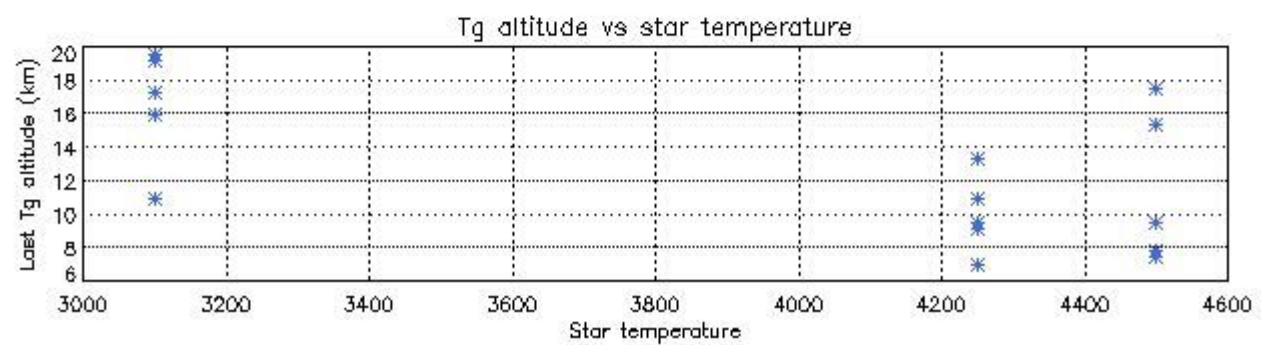
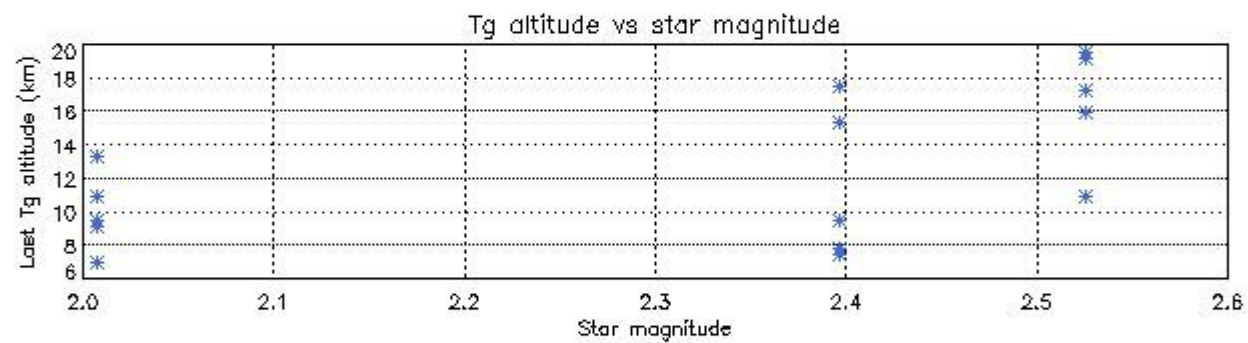
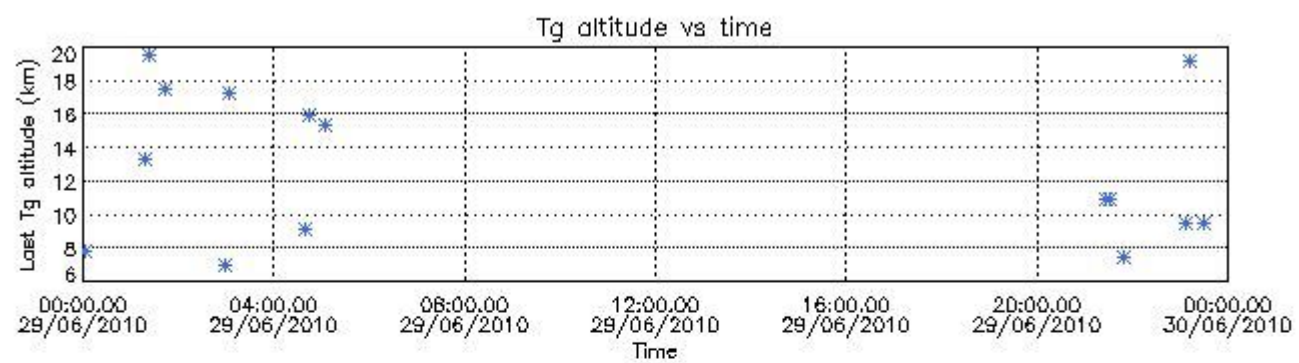
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.684	17.015	NaN
St. deviation:	4.4331	6.2476	NaN
Maximum:	19.555	27.871	NaN
Minimum:	6.9509	3.7739	NaN
Number of data:	15.000	64.000	NaN

### 6.2 Plot for DARK limb products

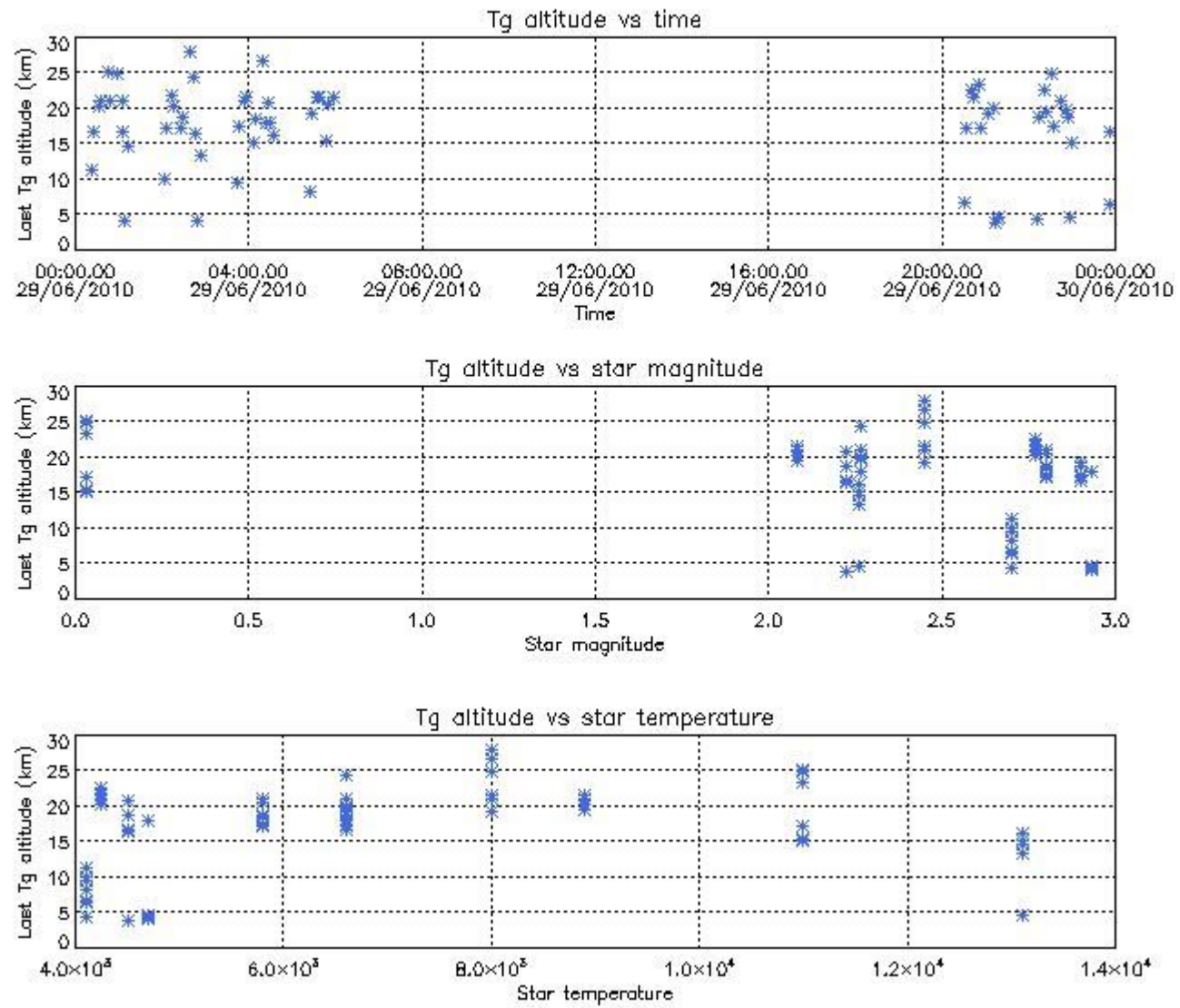
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost



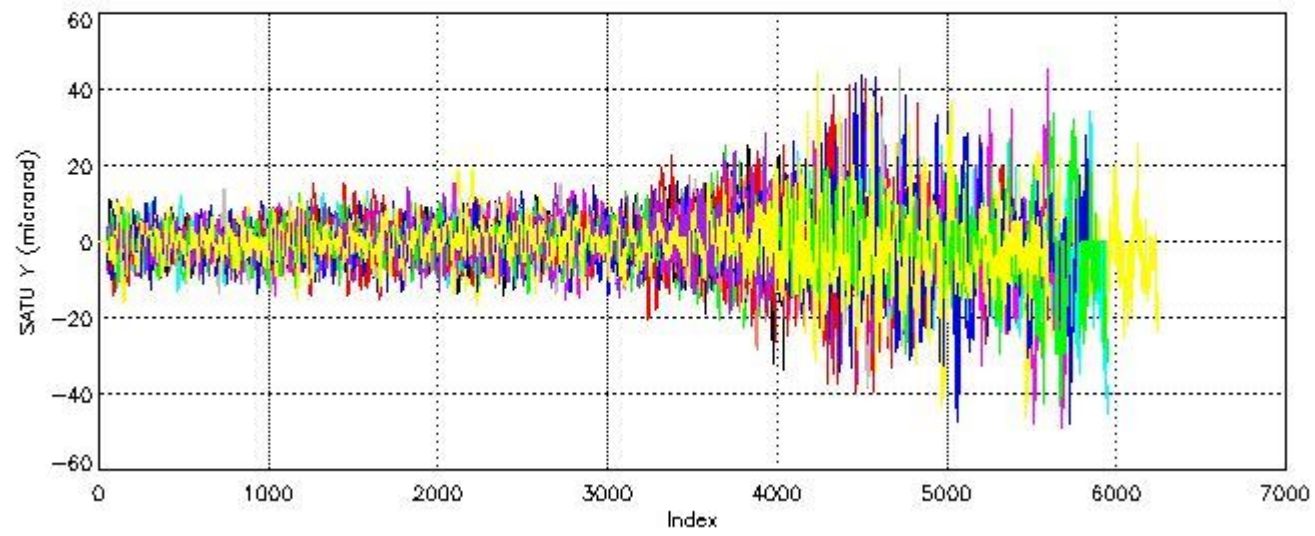
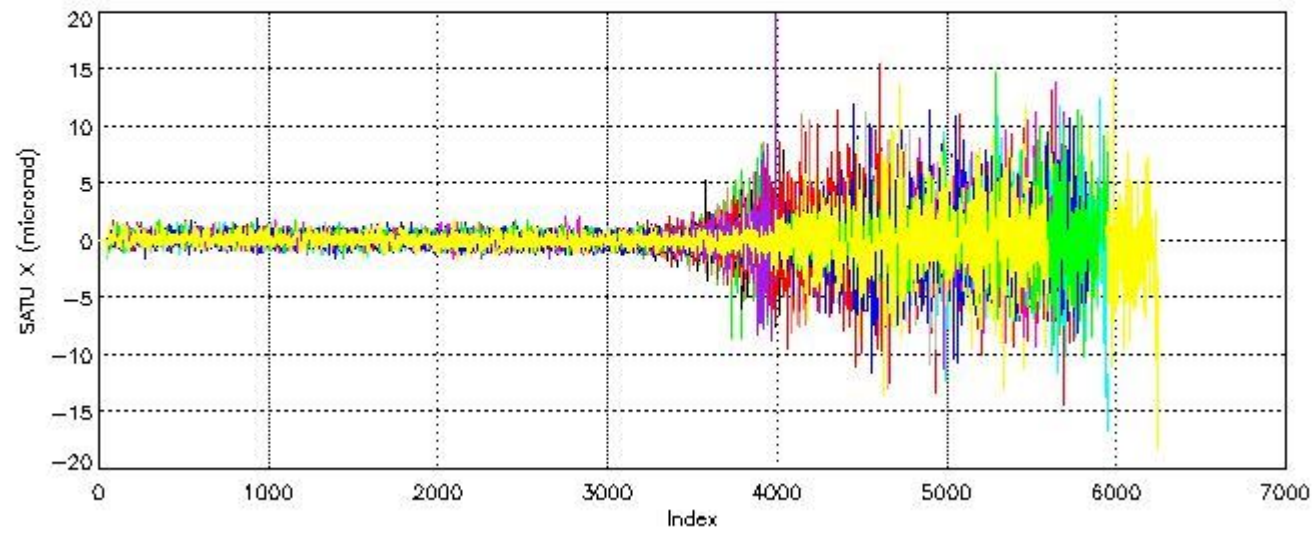
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14071	-0.48462	0.20031	-0.49831
St. deviation:	0.35727	3.8801	0.69000	3.7796
Maximum:	1.9000	13.700	4.6000	15.400
Minimum:	-1.6000	-16.100	-4.0000	-14.600

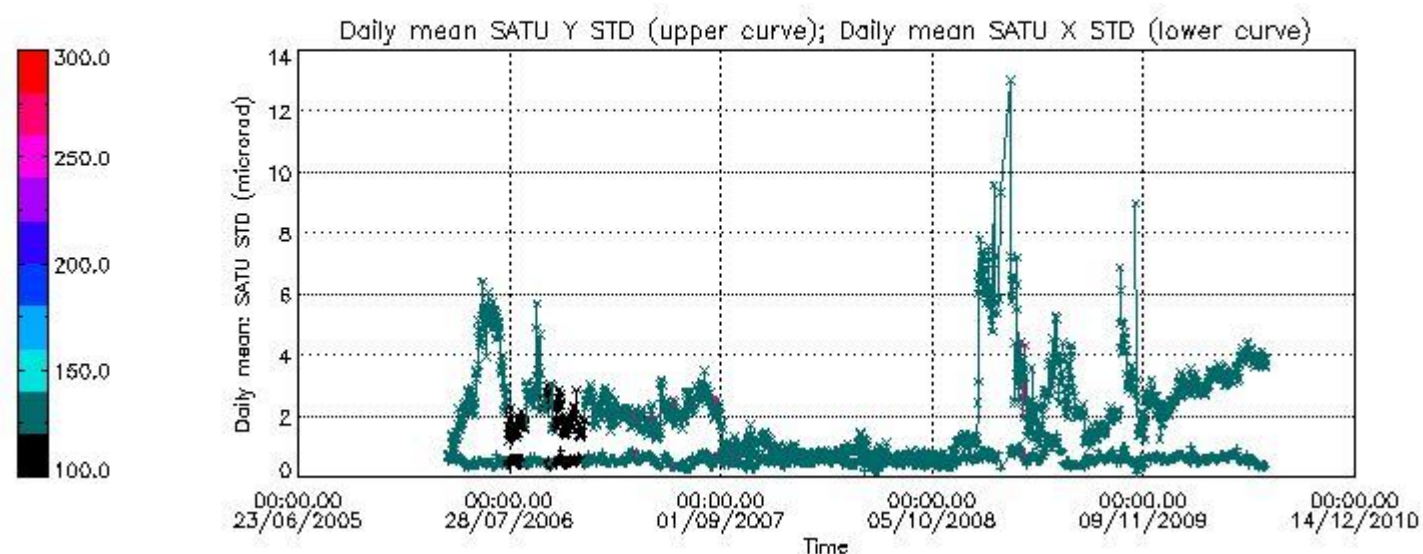
Number of data:	15700.	15700.	64500.	64500.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

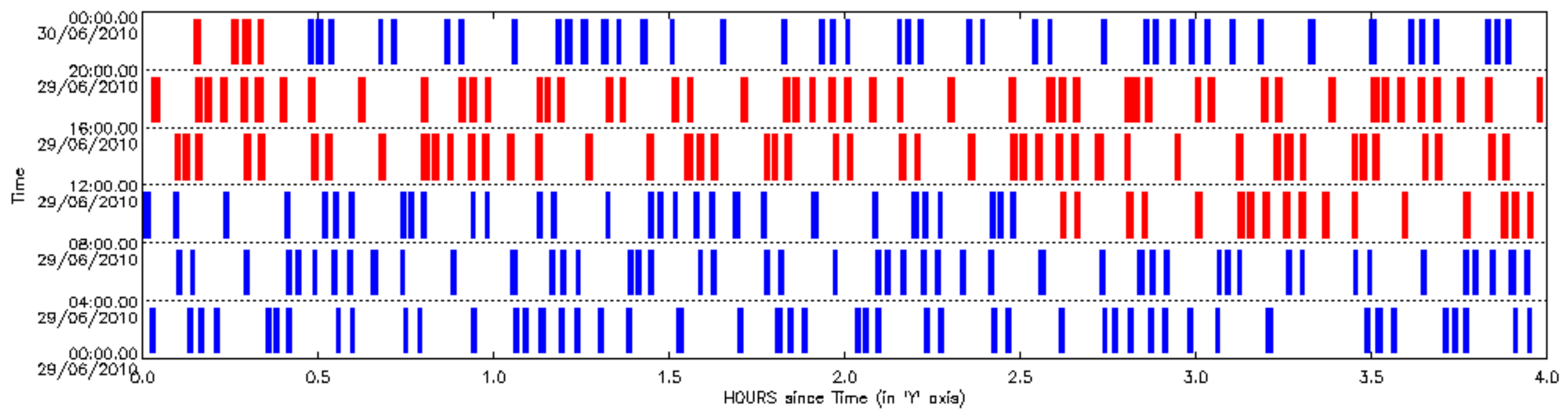
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

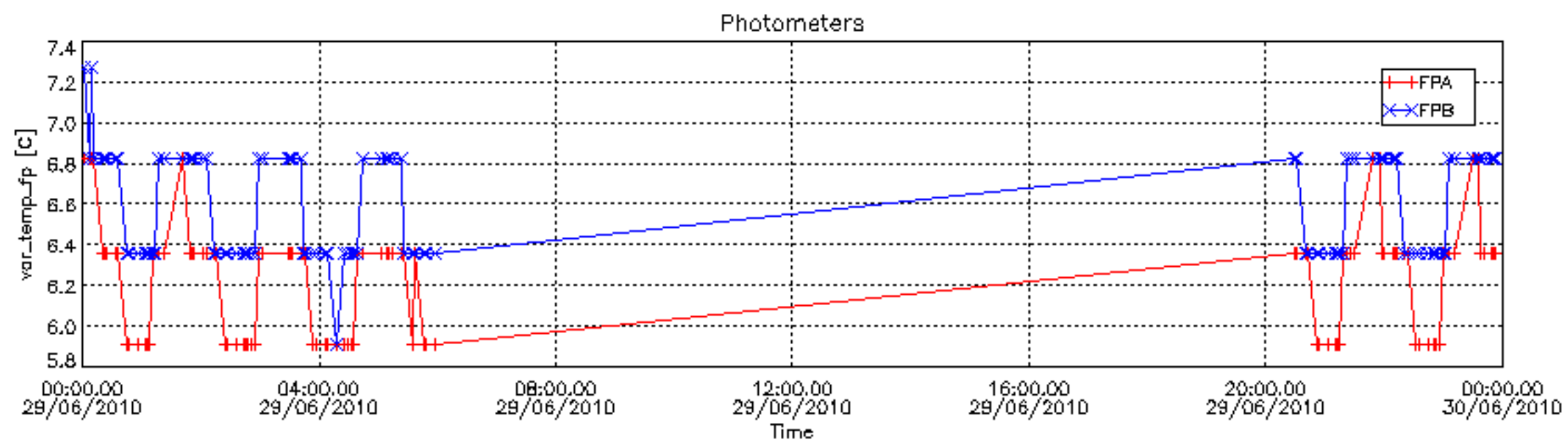
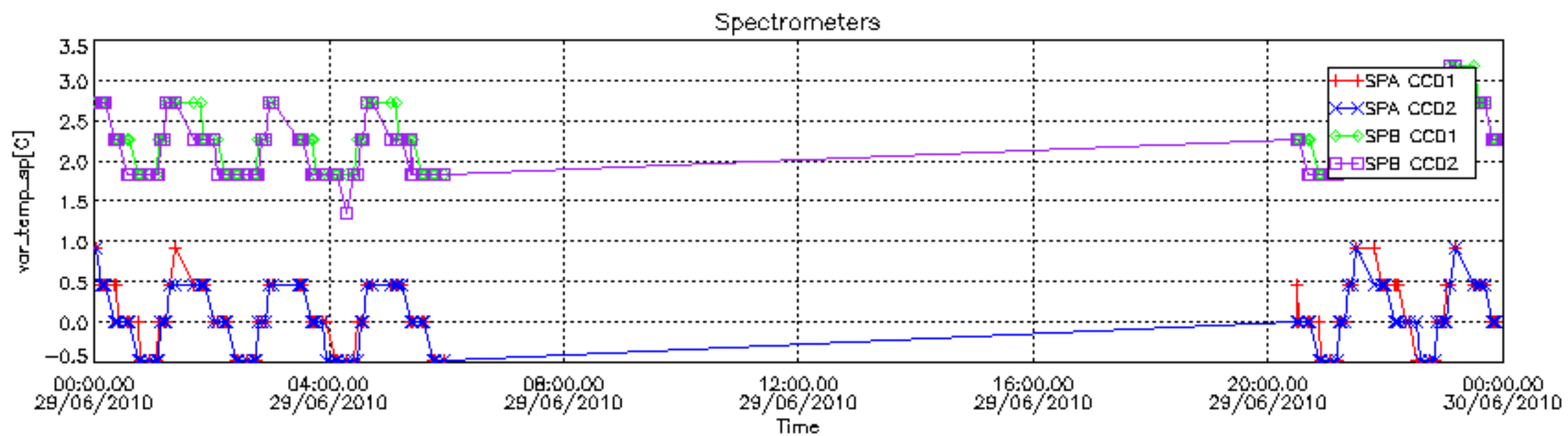


### 8. Auxiliary Data Files used for the production reported in section 2.4

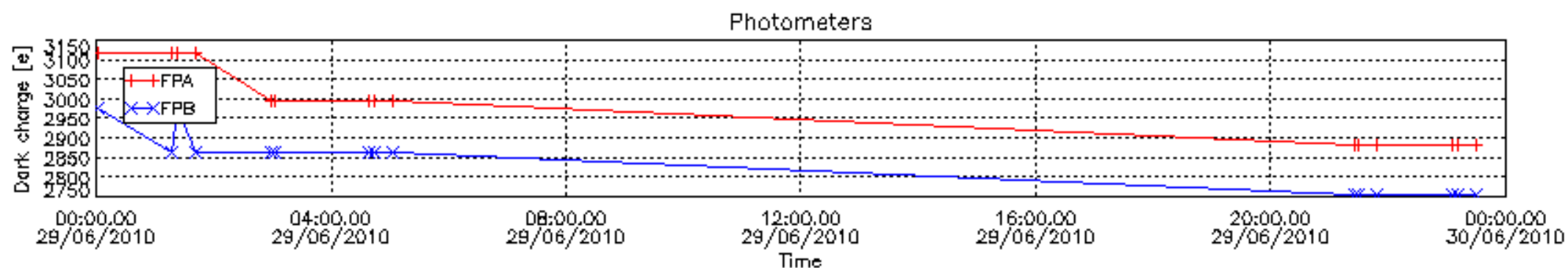
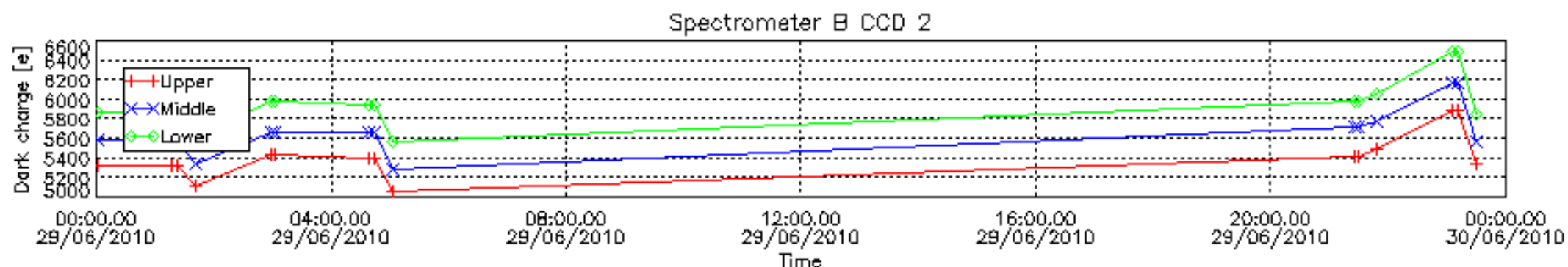
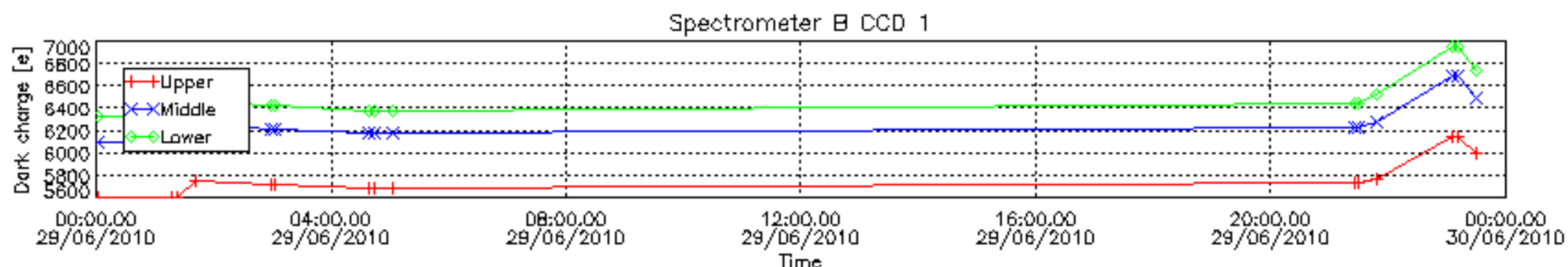
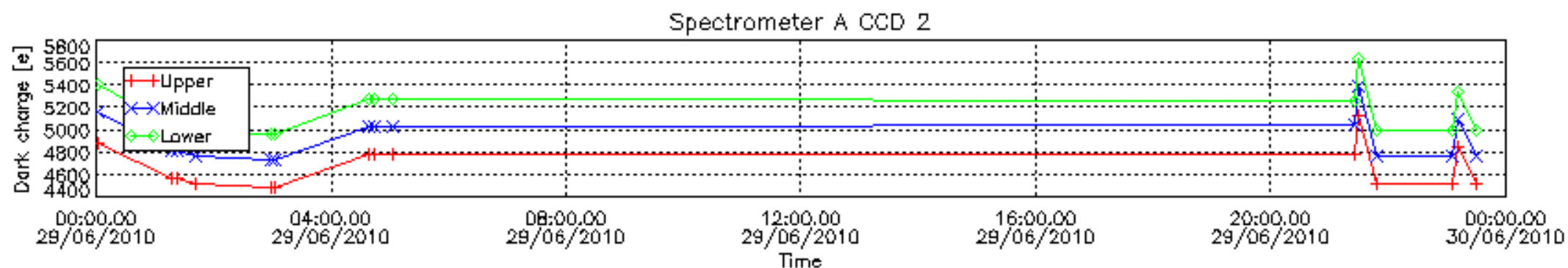
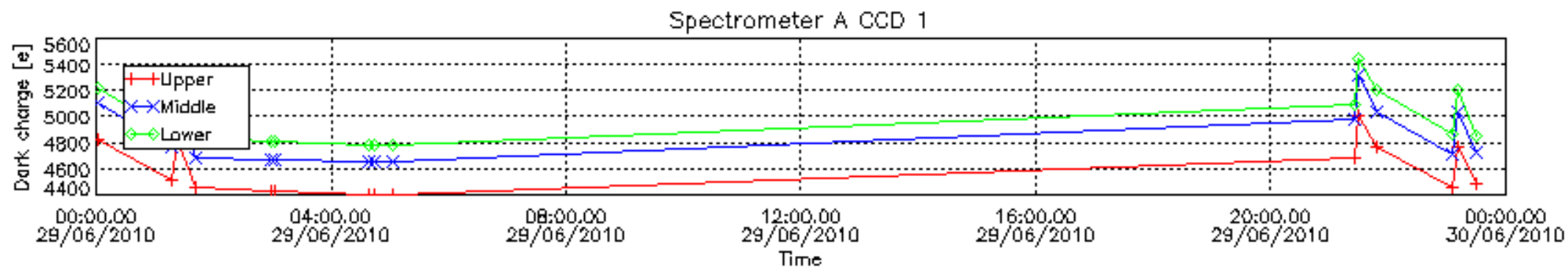
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

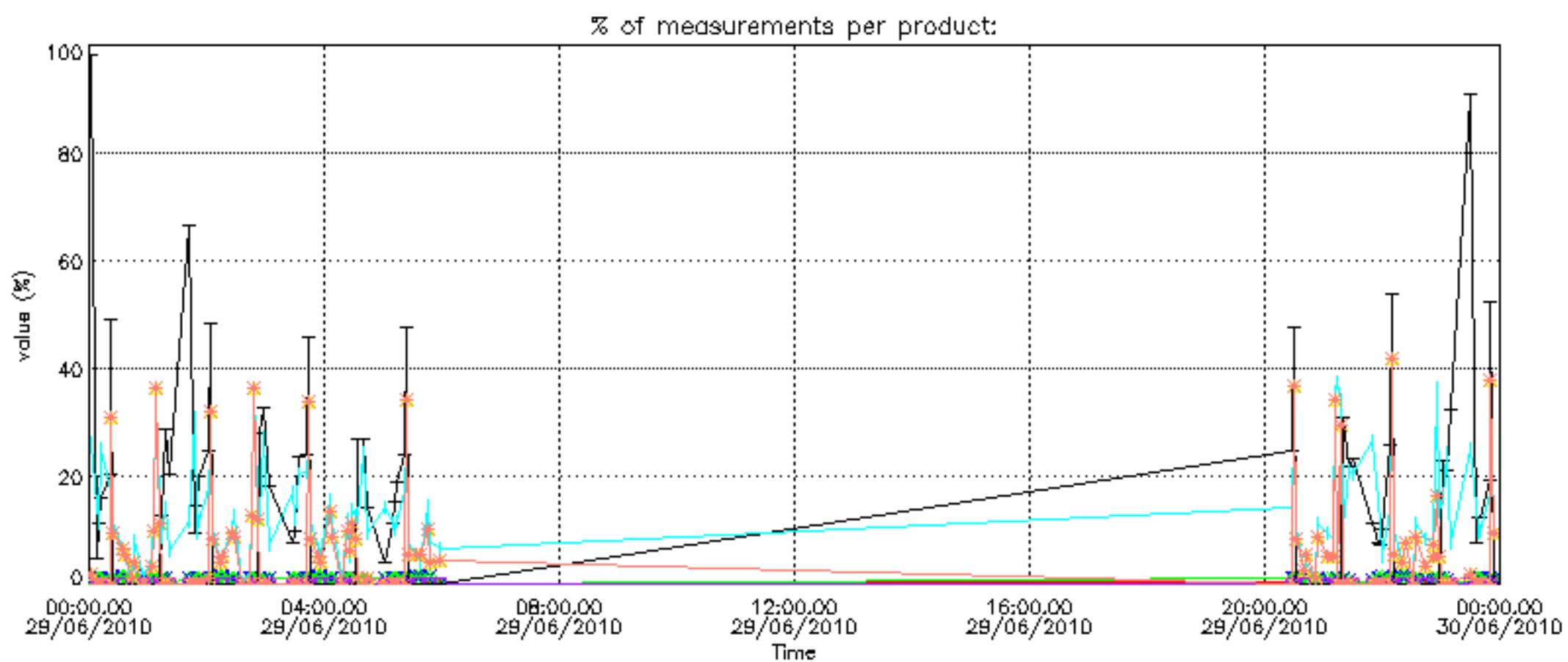
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-JUN-2010 00:01:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100624_124126_20100622_000000_20500101_000000	1	29-JUN-2010 00:01:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100629_101415_20100627_000000_20500101_000000	69	29-JUN-2010 20:28:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	29-JUN-2010 00:01:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUN-2010 00:01:07
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ECMWF_FILE	AUX_ECF_AXNECM20100629_053814_20100629_150000_20100630_030000	69	29-JUN-2010 20:28:22
ECMWF_FILE	AUX_ECF_AXNECM20100629_055813_20100629_210000_20100630_090000	84	29-JUN-2010 21:49:08
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUN-2010 00:01:07
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100629_023820_000057382090_00404_43544_0648.N1	32	29-JUN-2010 02:43:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100629_041917_000057382090_00405_43545_0649.N1	50	29-JUN-2010 04:24:34
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100629_213002_000060572090_00415_43555_0651.N1	84	29-JUN-2010 21:49:08
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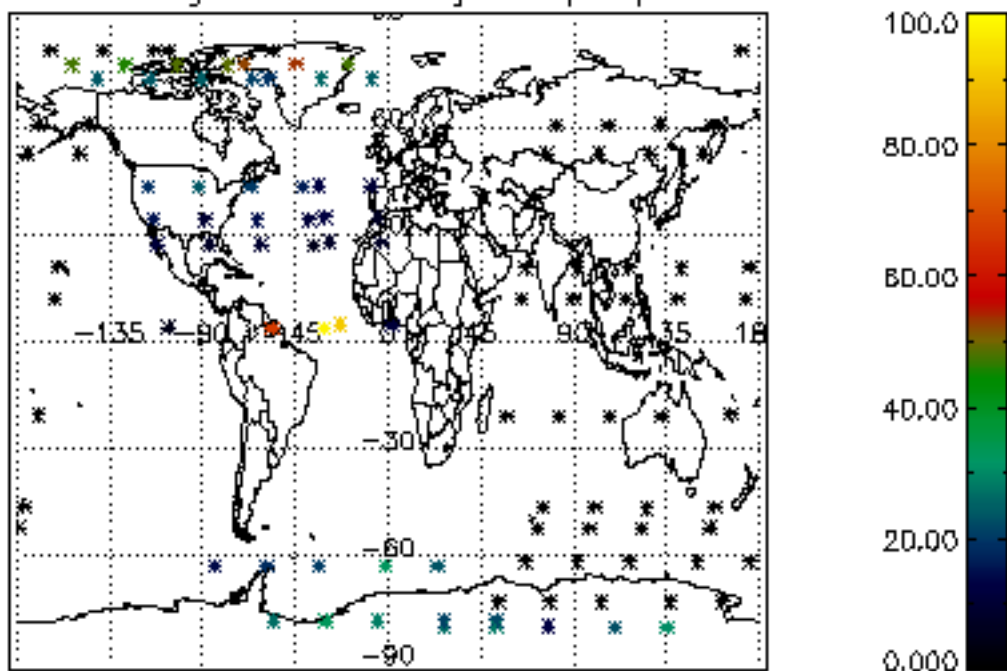




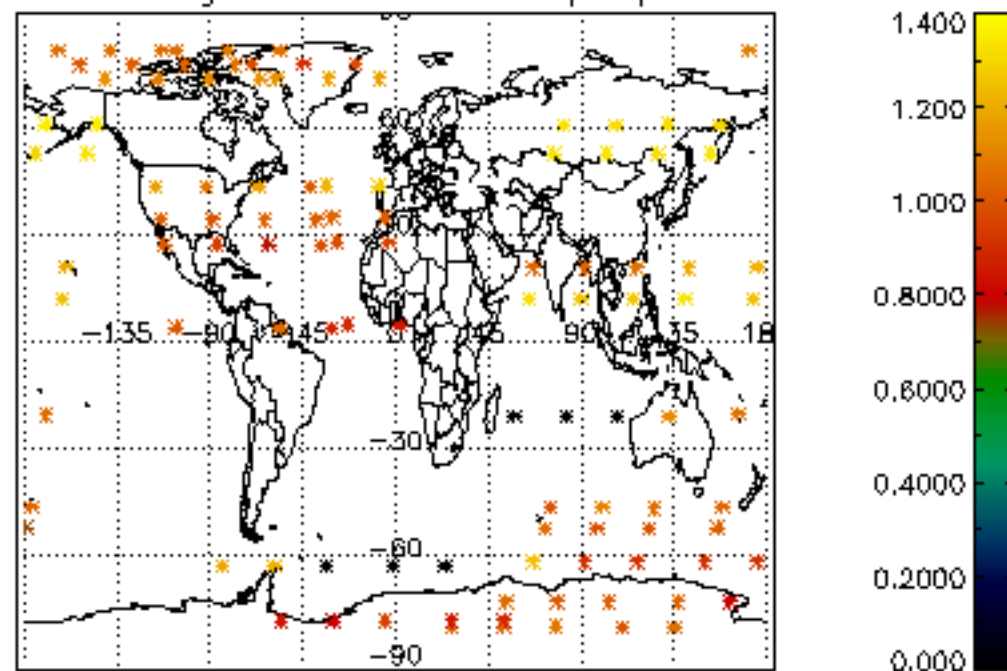




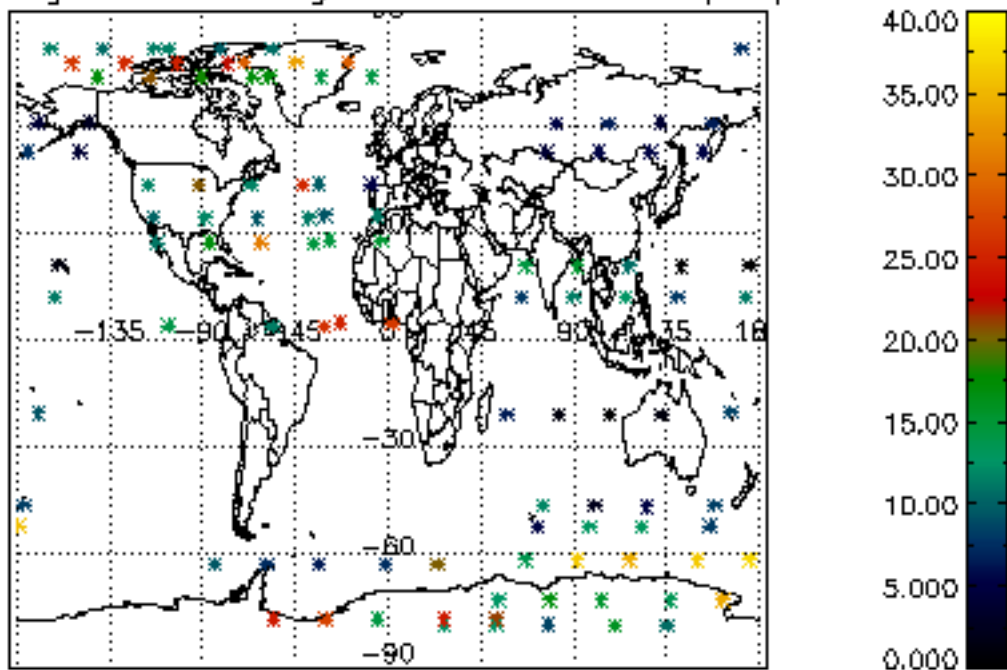
Percentage of cosmic ray hits per profile



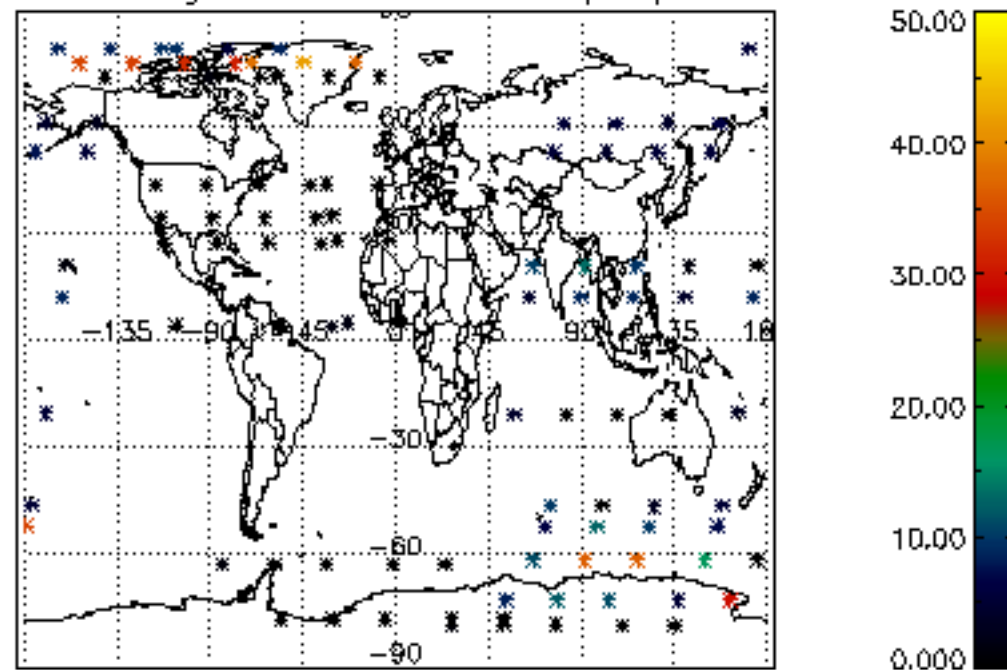
Percentage of datation errors per profile



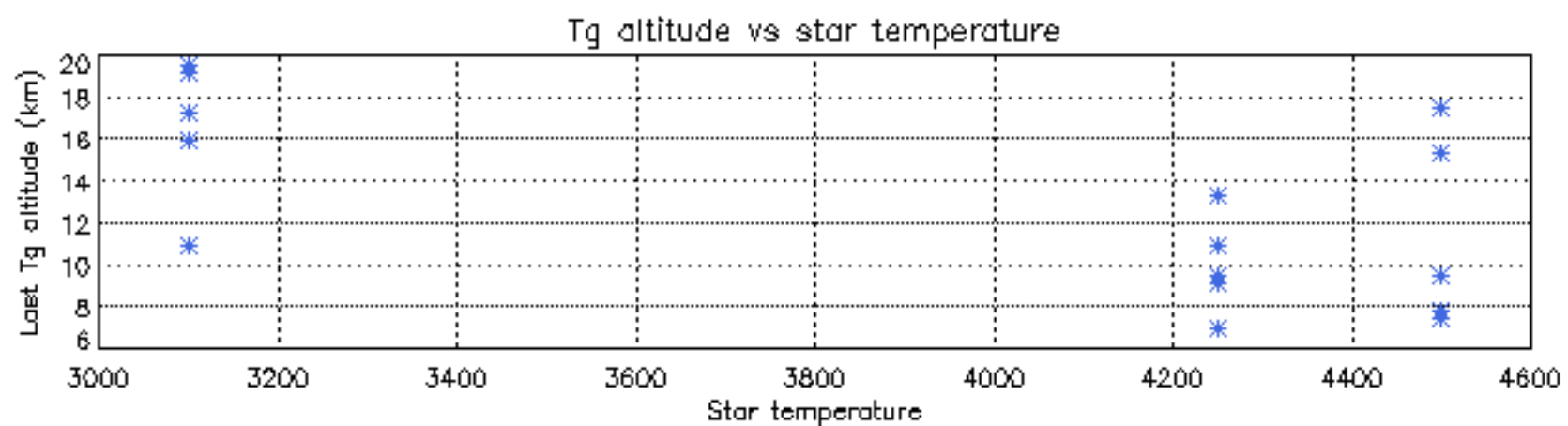
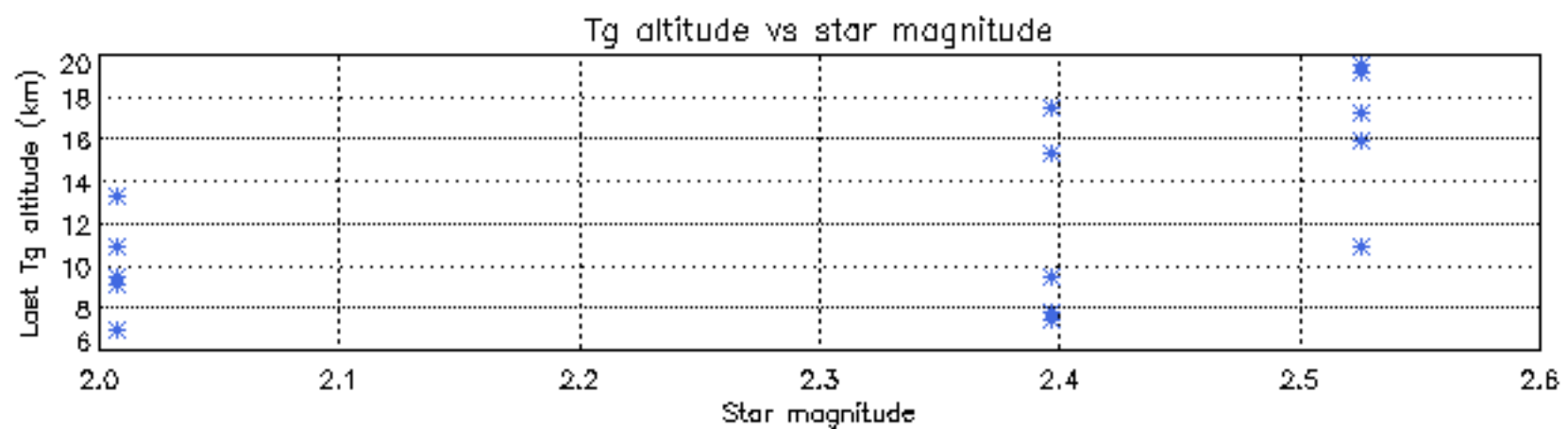
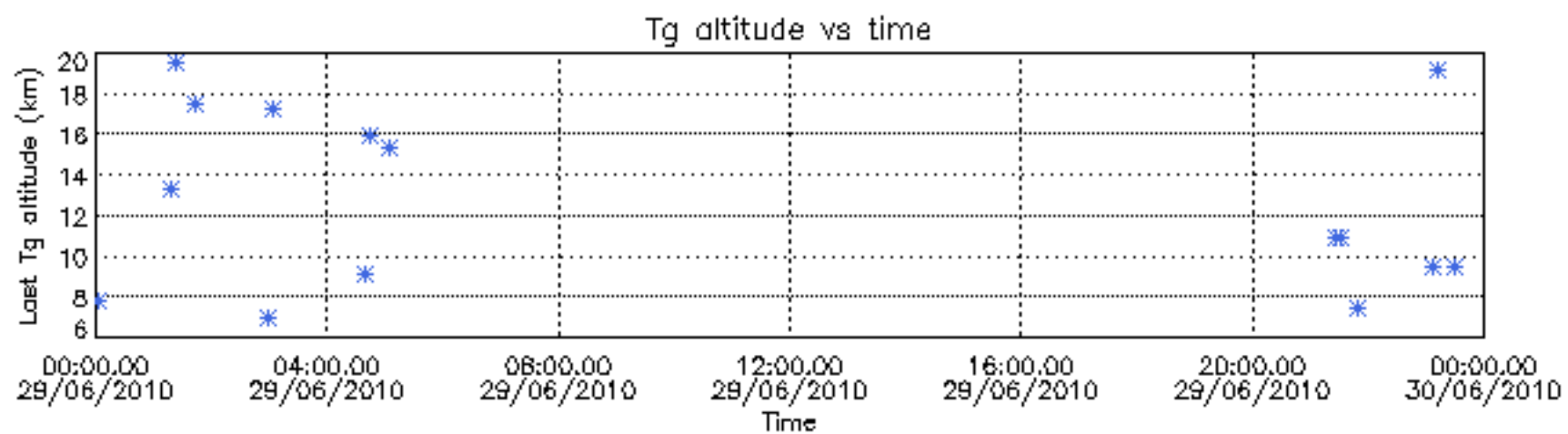
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

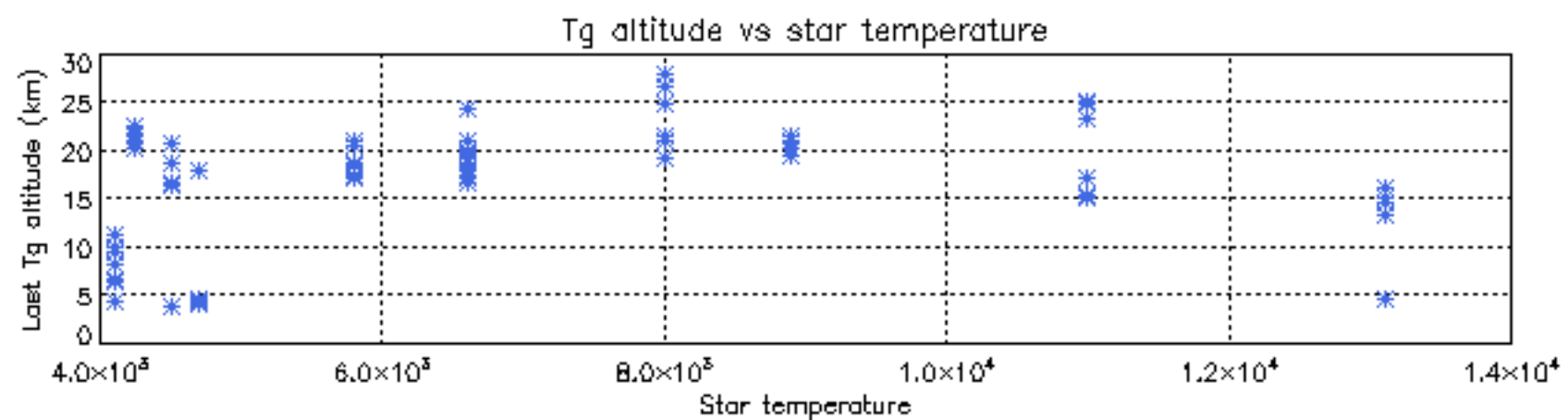
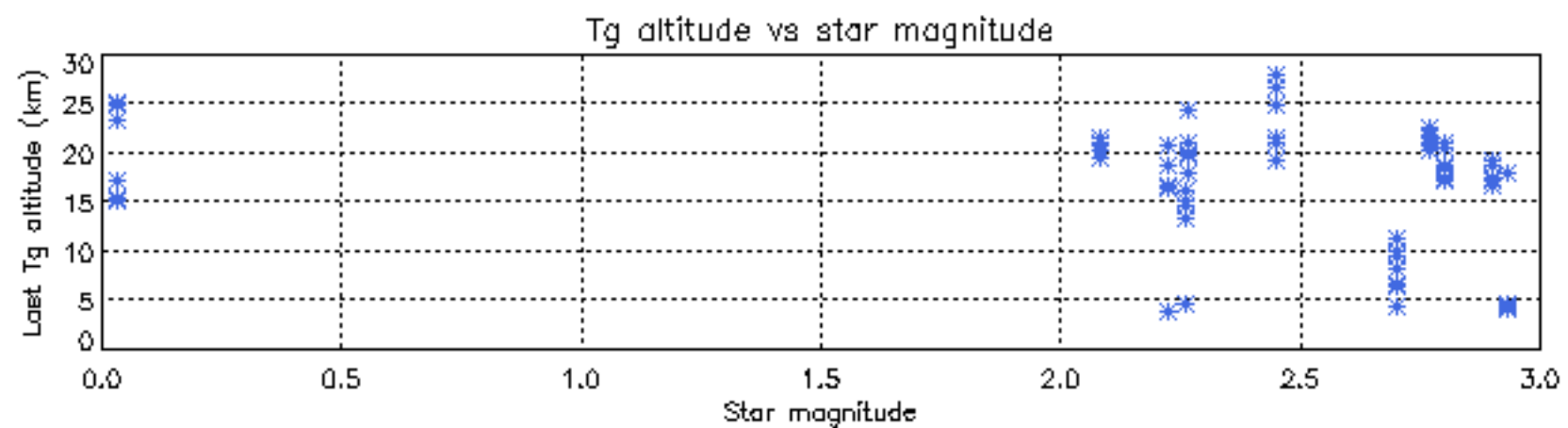
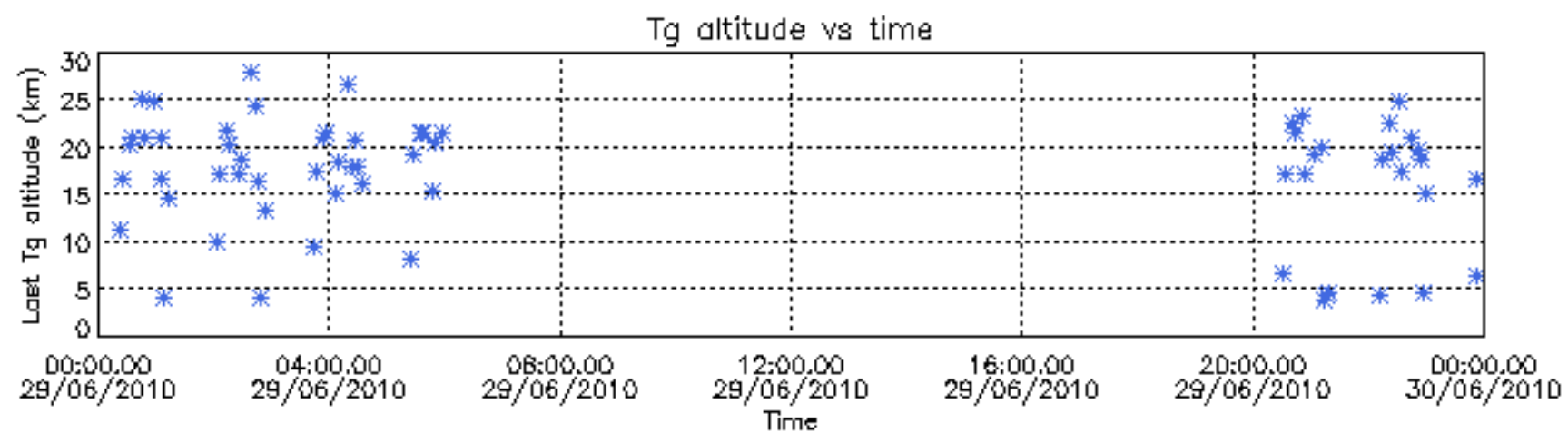


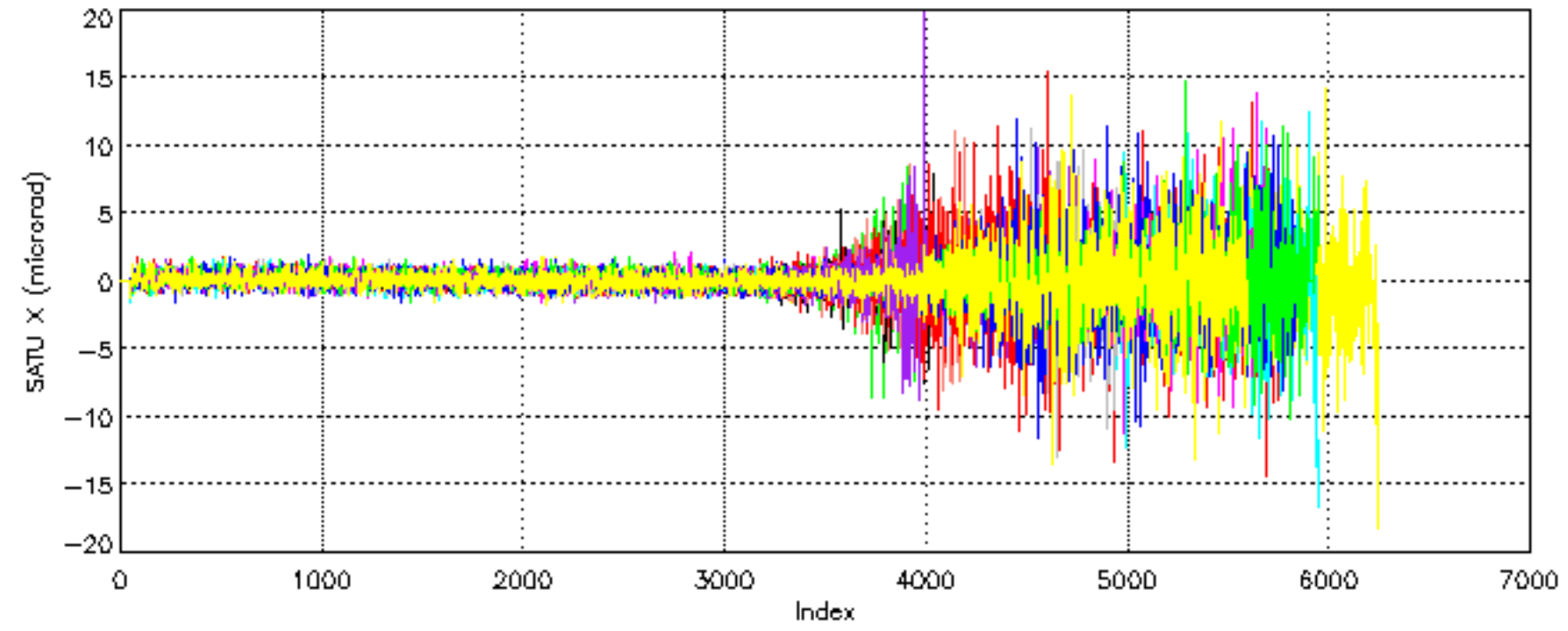
Tangent altitude at which the star is lost

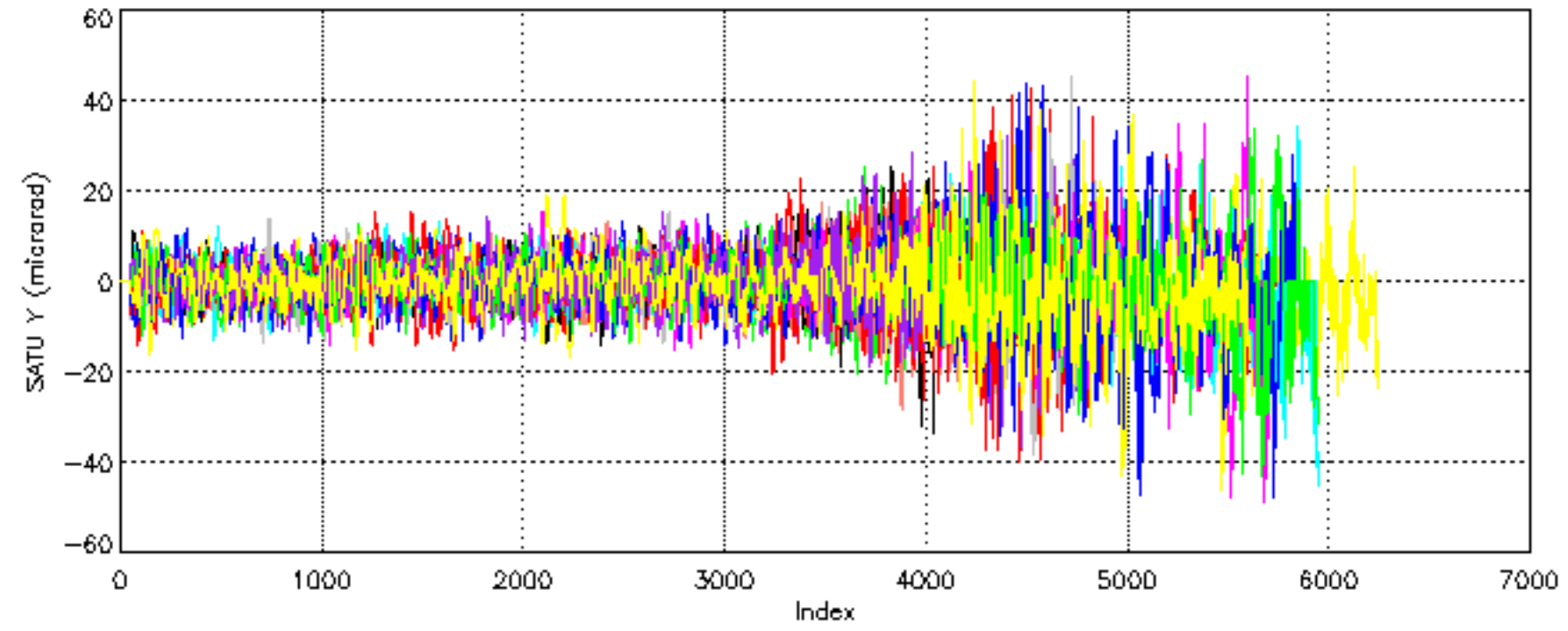


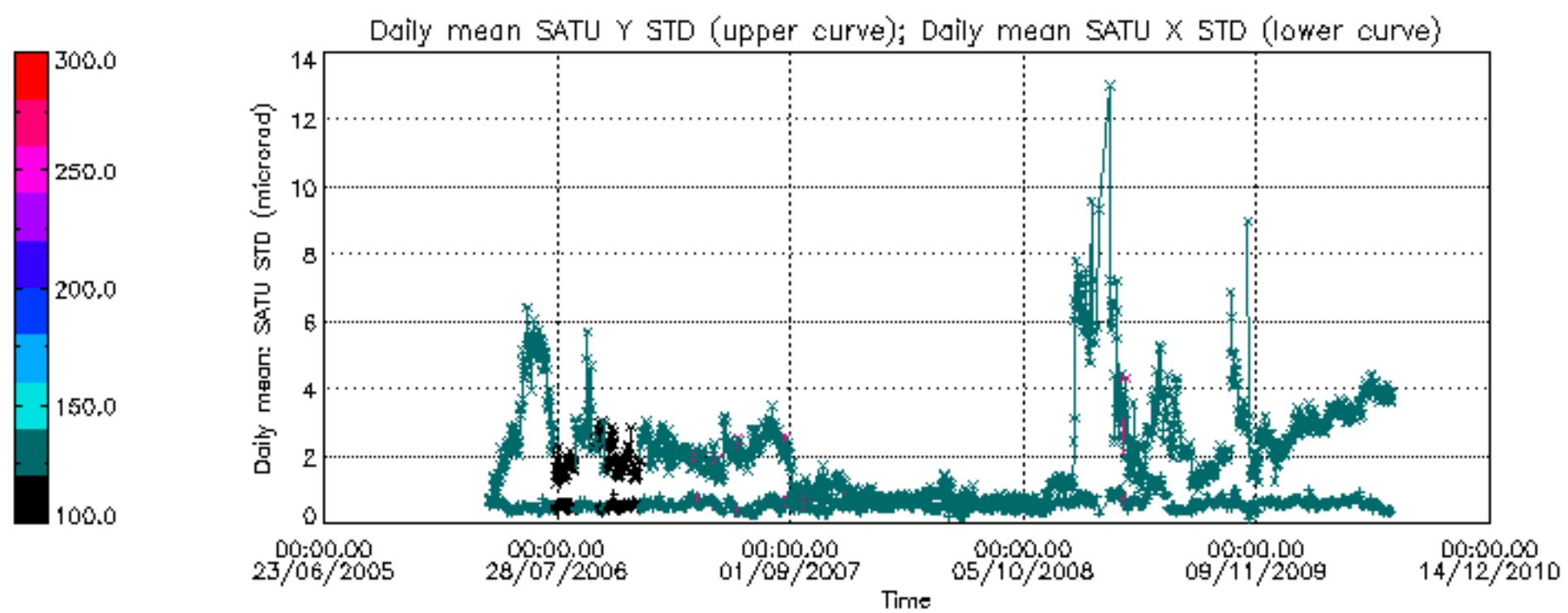


Tangent altitude at which the star is lost











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9; 2518.6; 02-JUN-2010 16:36:16; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;43166
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5; 2286.6; 10-JUN-2010 15:40:40; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43280
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5; 2187.4; 10-JUN-2010 17:19:37; Bright; 50.0; 59; 55Alp Oph ; 2.08; 8900;occ; 100; 0;43281
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9; 1295.8; 14-JUN-2010 21:40:41; Dark ; 49.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 99; 0;43341
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13; 2278.2; 14-JUN-2010 21:57:04; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;43341
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 4; 1625.7; 22-JUN-2010 20:54:26; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;43455
 5; 1990.1; 22-JUN-2010 21:00:31; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43455
 6; 2135.1; 22-JUN-2010 21:02:56; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43455
 7; 2447.4; 22-JUN-2010 21:08:08; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;43455
 8; 2722.3; 22-JUN-2010 21:12:43; Bright; 43.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 87; 0;43455
 9; 2835.3; 22-JUN-2010 21:14:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43455
10; 3425.6; 22-JUN-2010 21:24:26; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43455
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13; 4064.9; 22-JUN-2010 21:35:06; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43455
14; 4270.1; 22-JUN-2010 21:38:31; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43455
15; 4414.7; 22-JUN-2010 21:40:55; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;43455
16; 4644.2; 22-JUN-2010 21:44:45; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;43455
17; 4933.3; 22-JUN-2010 21:49:34; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;43455
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 3; 369.5; 22-JUN-2010 22:14:06; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;43456
 4; 491.8; 22-JUN-2010 22:16:09; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43456
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 6; 1239.5; 22-JUN-2010 22:28:36; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43456
 7; 1325.1; 22-JUN-2010 22:30:02; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43456
 8; 1455.9; 22-JUN-2010 22:32:13; Bright; 51.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 103; 0;43456
 9; 1626.0; 22-JUN-2010 22:35:03; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;43456
10; 1989.7; 22-JUN-2010 22:41:06; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43456
11; 2134.7; 22-JUN-2010 22:43:31; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43456
12; 2447.4; 22-JUN-2010 22:48:44; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43456
13; 2721.7; 22-JUN-2010 22:53:18; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43456

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 16; 3840.5; 22-JUN-2010 23:11:57; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43456  
 17; 3931.9; 22-JUN-2010 23:13:29; Bright; 65.0; 68; 18Alp Cas ; 2.22; 4500;occ; 130; 0;43456  
 18; 4064.5; 22-JUN-2010 23:15:41; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43456  
 19; 4270.6; 22-JUN-2010 23:19:07; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43456  
 20; 4414.5; 22-JUN-2010 23:21:31; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;43456  
 21; 4644.5; 22-JUN-2010 23:25:21; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43456  
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 23; 5412.0; 22-JUN-2010 23:38:09; Dark ; 15.5; 0; ; 0.00; 0;occ; 31; 0;43456

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 3; 370.4; 22-JUN-2010 23:54:43; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43457  
 4; 492.8; 22-JUN-2010 23:56:45; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43457  
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 6; 1239.8; 23-JUN-2010 00:09:12; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43457  
 7; 1325.1; 23-JUN-2010 00:10:38; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;43457  
 8; 1456.4; 23-JUN-2010 00:12:49; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43457  
 9; 1629.7; 23-JUN-2010 00:15:42; Bright; 33.5; 86; 35Eta Oph ; 2.43; 10200;occ; 67; 0;43457  
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 12; 2447.3; 23-JUN-2010 00:29:20; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43457  
 13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457  
 14; 2834.6; 23-JUN-2010 00:35:47; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43457  
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 16; 3840.3; 23-JUN-2010 00:52:33; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;43457  
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 18; 4065.1; 23-JUN-2010 00:56:18; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;43457  
 19; 4270.4; 23-JUN-2010 00:59:43; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43457  
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 5; 683.8; 23-JUN-2010 01:40:32; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43458  
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 7; 1325.4; 23-JUN-2010 01:51:14; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43458  
 8; 1456.5; 23-JUN-2010 01:53:25; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43458  
 9; 1989.5; 23-JUN-2010 02:02:18; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43458  
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 13; 2833.9; 23-JUN-2010 02:16:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43458  
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 16; 3931.4; 23-JUN-2010 02:34:40; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43458  
 17; 4064.8; 23-JUN-2010 02:36:53; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43458  
 18; 4270.5; 23-JUN-2010 02:40:19; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;43458  
 19; 4414.7; 23-JUN-2010 02:42:43; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43458  
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 22; 5413.3; 23-JUN-2010 02:59:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43458  
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 24; 6408.2; 23-JUN-2010 03:15:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43459  
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 26; 6720.8; 23-JUN-2010 03:21:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;43459  
 27; 7276.4; 23-JUN-2010 03:30:25; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43459  
 28; 7361.8; 23-JUN-2010 03:31:50; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43459  
 29; 7492.4; 23-JUN-2010 03:34:01; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43459  
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 31; 8169.8; 23-JUN-2010 03:45:18; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43459  
 32; 8483.4; 23-JUN-2010 03:50:32; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43459  
 33; 8755.5; 23-JUN-2010 03:55:04; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43459  
 34; 8869.6; 23-JUN-2010 03:56:58; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;43459



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 18; 8025.5; 23-JUN-2010 05:23:30; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43460  
 19; 8169.8; 23-JUN-2010 05:25:54; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;43460  
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 22; 8869.5; 23-JUN-2010 05:37:34; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43460  
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 5;-1621.0; 23-JUN-2010 06:03:55; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43460  
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 7;-1100.8; 23-JUN-2010 06:12:36; Dark ; 37.0; 94; 92Alp Cet ; 2.53; 3100;occ; 74; 0;43460  
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 13; 1241.1; 23-JUN-2010 06:51:37; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43461  
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 4; 1986.8; 24-JUN-2010 19:57:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43483  
 5; 2130.3; 24-JUN-2010 19:59:37; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43483  
 6; 2703.6; 24-JUN-2010 20:09:10; Bright; 48.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 96; 0;43483  
 7; 2827.5; 24-JUN-2010 20:11:14; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43483  
 8; 3406.5; 24-JUN-2010 20:20:53; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43483  
 9; 3829.1; 24-JUN-2010 20:27:56; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43483  
 10; 3922.7; 24-JUN-2010 20:29:29; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43483  
 11; 4065.0; 24-JUN-2010 20:31:52; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43483  
 12; 4270.4; 24-JUN-2010 20:35:17; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;43483  
 13; 4417.3; 24-JUN-2010 20:37:44; Dark ; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;43483  
 14; 4651.6; 24-JUN-2010 20:41:38; Dark ; 54.0; 50; 13Alp Ari ; 2.01; 4250;occ; 108; 0;43483

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 3; 8.2; 24-JUN-2010 21:04:51; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43483  
 4; 397.1; 24-JUN-2010 21:11:20; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43484  
 5; 518.5; 24-JUN-2010 21:13:21; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43484  
 6; 698.4; 24-JUN-2010 21:16:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43484  
 7; 1248.2; 24-JUN-2010 21:25:31; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43484  
 8; 1332.8; 24-JUN-2010 21:26:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43484  
 9; 1462.1; 24-JUN-2010 21:29:05; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43484  
 10; 1987.0; 24-JUN-2010 21:37:50; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43484  
 11; 2130.1; 24-JUN-2010 21:40:13; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;43484  
 12; 2702.6; 24-JUN-2010 21:49:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43484  
 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484  
 14; 3405.4; 24-JUN-2010 22:01:28; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43484  
 15; 3828.6; 24-JUN-2010 22:08:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43484  
 16; 3922.2; 24-JUN-2010 22:10:05; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43484  
 17; 4064.9; 24-JUN-2010 22:12:27; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43484  
 18; 4270.0; 24-JUN-2010 22:15:53; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;43484  
 19; 4416.8; 24-JUN-2010 22:18:19; Dark ; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;43484  
 20; 4651.7; 24-JUN-2010 22:22:14; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43484

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 4; 398.2; 24-JUN-2010 22:51:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43485  
 5; 519.7; 24-JUN-2010 22:53:58; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43485  
 6; 698.8; 24-JUN-2010 22:56:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43485  
 7; 1248.5; 24-JUN-2010 23:06:07; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43485  
 8; 1332.8; 24-JUN-2010 23:07:31; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;43485  
 9; 1462.1; 24-JUN-2010 23:09:41; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43485

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11; 2130.2; 24-JUN-2010 23:20:49; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;43485
12; 2702.2; 24-JUN-2010 23:30:21; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43485
13; 2826.9; 24-JUN-2010 23:32:25; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43485
14; 3405.2; 24-JUN-2010 23:42:04; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43485
15; 3828.1; 24-JUN-2010 23:49:06; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;43485
16; 3921.8; 24-JUN-2010 23:50:40; Bright; 66.0; 68; 18Alp Cas ; 2.22; 4500;occ; 132; 0;43485
17; 4064.8; 24-JUN-2010 23:53:03; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43485
18; 4269.9; 24-JUN-2010 23:56:28; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;43485
19; 4417.2; 24-JUN-2010 23:58:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43485
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3; 10.0; 25-JUN-2010 00:26:04; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43486
4; 399.1; 25-JUN-2010 00:32:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43486
5; 520.4; 25-JUN-2010 00:34:35; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43486
6; 699.5; 25-JUN-2010 00:37:34; Dark ; 49.5; 45; Alp Pav ; 1.94; 26000;occ; 99; 0;43486
7; 1248.9; 25-JUN-2010 00:46:43; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43486
8; 1333.3; 25-JUN-2010 00:48:08; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43486
9; 1462.4; 25-JUN-2010 00:50:17; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43486
10; 1986.6; 25-JUN-2010 00:59:01; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43486
11; 2129.9; 25-JUN-2010 01:01:24; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43486
12; 2701.4; 25-JUN-2010 01:10:56; Bright; 50.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 101; 0;43486
13; 2826.6; 25-JUN-2010 01:13:01; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43486
14; 3404.5; 25-JUN-2010 01:22:39; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43486
15; 3827.4; 25-JUN-2010 01:29:42; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;43486
16; 3921.4; 25-JUN-2010 01:31:16; Bright; 49.0; 68; 18Alp Cas ; 2.22; 4500;occ; 98; 0;43486
17; 4064.9; 25-JUN-2010 01:33:39; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43486
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19; 4417.1; 25-JUN-2010 01:39:31; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43486
20; 4652.5; 25-JUN-2010 01:43:27; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;43486
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3; 10.9; 25-JUN-2010 02:06:41; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43487
4; 400.3; 25-JUN-2010 02:13:10; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43487
5; 521.4; 25-JUN-2010 02:15:12; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43487
6; 700.1; 25-JUN-2010 02:18:10; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43487
7; 1248.8; 25-JUN-2010 02:27:19; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;43487
8; 1333.6; 25-JUN-2010 02:28:44; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;43487
9; 1462.7; 25-JUN-2010 02:30:53; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;43487
10; 1986.6; 25-JUN-2010 02:39:37; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43487
11; 2129.9; 25-JUN-2010 02:42:00; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43487
12; 2700.9; 25-JUN-2010 02:51:31; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43487
13; 2826.6; 25-JUN-2010 02:53:37; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43487
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4; -1765.8; 25-JUN-2010 03:17:40; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43487
5; -1618.4; 25-JUN-2010 03:20:08; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;43487
6; -1383.2; 25-JUN-2010 03:24:03; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;43487
7; -602.7; 25-JUN-2010 03:37:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43487
8; -313.2; 25-JUN-2010 03:41:53; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;43487
9; 12.0; 25-JUN-2010 03:47:18; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43488
10; 401.2; 25-JUN-2010 03:53:47; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43488
11; 522.3; 25-JUN-2010 03:55:48; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43488
12; 700.5; 25-JUN-2010 03:58:47; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43488
13; 1249.4; 25-JUN-2010 04:07:55; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43488
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15; 1462.9; 25-JUN-2010 04:11:29; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43488
16; 1986.8; 25-JUN-2010 04:20:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43488
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19; 2826.3; 25-JUN-2010 04:34:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;43488
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 7; 1336.7; 26-JUN-2010 00:16:34; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43500  
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3; 482.4; 30-JUN-2010 23:04:51; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;43571
4; 599.4; 30-JUN-2010 23:06:48; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43571
5; 743.3; 30-JUN-2010 23:09:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43571
6; 1313.5; 30-JUN-2010 23:18:42; Dark ; 47.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 95; 0;43571
7; 1480.0; 30-JUN-2010 23:21:28; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43571
8; 1982.2; 30-JUN-2010 23:29:51; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43571
9; 2121.7; 30-JUN-2010 23:32:10; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;43571
10; 2234.2; 30-JUN-2010 23:34:03; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;43571
11; 2653.4; 30-JUN-2010 23:41:02; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43571
12; 2809.0; 30-JUN-2010 23:43:37; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43571

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13; 2926.0; 30-JUN-2010 23:45:34; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;43571  
14; 3346.2; 30-JUN-2010 23:52:35; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43571  
15; 3786.9; 30-JUN-2010 23:59:55; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;43571  
16; 3888.2; 01-JUL-2010 00:01:37; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;43571  
17; 4062.4; 01-JUL-2010 00:04:31; Bright; 56.0; 160; 23Gam Per ; 2.93; 4700;occ; 112; 0;43571  
18; 4266.7; 01-JUL-2010 00:07:55; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;43571  
19; 4424.5; 01-JUL-2010 00:10:33; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43571  
20; 4678.0; 01-JUL-2010 00:14:46; Dark ; 56.5; 50; 13Alp Ari ; 2.01; 4250;occ; 113; 0;43571  
21; 4975.5; 01-JUL-2010 00:19:44; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;43571