

GOMOS Daily Report 06-JUN-2008

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	10JUN2008 12:01:11
Data source version	GOMOS/5.00
Start time of products	06-06-2008 (06JUN2008 00:00:00)
Stop time of products	07-06-2008 (07JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

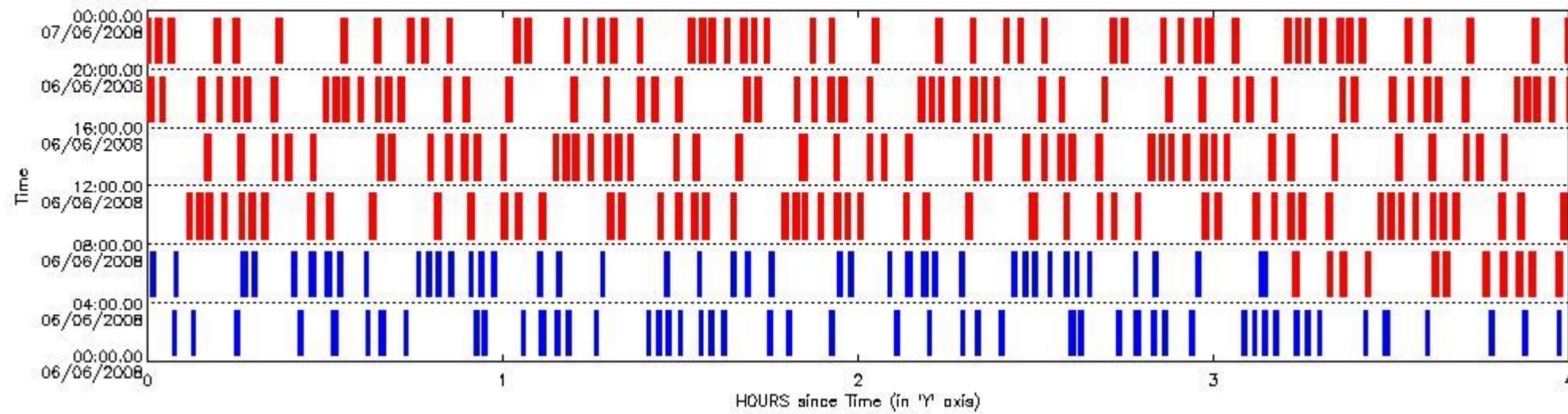
2.1 Level 0 products arrived in PCF (see template [here](#))

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
06-JUN-2008 07:13:25	27GamCas	76	32768
06-JUN-2008 07:19:08	57Gam1And	73	32768
06-JUN-2008 07:21:27	43BetAnd	53	32768
06-JUN-2008 07:25:34	6BetAri	105	32768
06-JUN-2008 07:36:56	DSA1068	0	32768
06-JUN-2008 07:38:52	16BetCet	52	32768
06-JUN-2008 07:45:27	AlpPhe	84	32768
06-JUN-2008 07:48:27	24AlpPsA	18	32768
06-JUN-2008 07:51:09	BetGru	63	32769
06-JUN-2008 07:53:07	AlpGru	31	32769
06-JUN-2008 07:57:44	AlpPav	45	32769
06-JUN-2008 08:06:31	TheSco	40	32769
06-JUN-2008 08:08:17	35LamSco	25	32769
06-JUN-2008 08:09:55	26EpsSco	75	32769
06-JUN-2008 08:12:28	21AlpSco	16	32769

06-JUN-2008 08:15:20	35EtaOph	86	32769
06-JUN-2008 08:17:08	13ZetOph	98	32769
06-JUN-2008 08:19:16	1DelOph	120	32769
06-JUN-2008 08:26:59	27BetHer	127	32769
06-JUN-2008 08:30:15	40ZetHer	133	32769
06-JUN-2008 08:37:31	23BetDra	130	32769
06-JUN-2008 08:48:21	5AlpCep	89	32769
06-JUN-2008 08:54:01	27GamCas	76	32769
06-JUN-2008 08:59:44	57Gam1And	73	32769
06-JUN-2008 09:02:03	43BetAnd	53	32769
06-JUN-2008 09:06:10	6BetAri	105	32769
06-JUN-2008 09:17:33	DSA1068	0	32769
06-JUN-2008 09:19:28	16BetCet	52	32769
06-JUN-2008 09:26:03	AlpPhe	84	32769
06-JUN-2008 09:29:04	24AlpPsA	18	32769
06-JUN-2008 09:31:46	BetGru	63	32770
06-JUN-2008 09:33:44	AlpGru	31	32770
06-JUN-2008 09:38:20	AlpPav	45	32770
06-JUN-2008 09:47:07	TheSco	40	32770
06-JUN-2008 09:48:53	35LamSco	25	32770
06-JUN-2008 09:50:31	26EpsSco	75	32770
06-JUN-2008 09:53:04	21AlpSco	16	32770
06-JUN-2008 09:55:56	35EtaOph	86	32770
06-JUN-2008 09:57:44	13ZetOph	98	32770
06-JUN-2008 09:59:52	1DelOph	120	32770
06-JUN-2008 10:07:35	27BetHer	127	32770
06-JUN-2008 10:10:51	40ZetHer	133	32770
06-JUN-2008 10:18:06	23BetDra	130	32770
06-JUN-2008 10:28:56	5AlpCep	89	32770
06-JUN-2008 10:34:37	27GamCas	76	32770
06-JUN-2008 10:40:20	57Gam1And	73	32770
06-JUN-2008 10:42:39	43BetAnd	53	32770
06-JUN-2008 10:46:47	6BetAri	105	32770
06-JUN-2008 10:58:09	DSA1068	0	32770
06-JUN-2008 11:00:05	16BetCet	52	32770
06-JUN-2008 11:06:40	AlpPhe	84	32770
06-JUN-2008 11:09:41	24AlpPsA	18	32770
06-JUN-2008 11:12:23	BetGru	63	32771
06-JUN-2008 11:14:21	AlpGru	31	32771
06-JUN-2008 11:18:57	AlpPav	45	32771
06-JUN-2008 11:27:44	TheSco	40	32771
06-JUN-2008 11:29:30	35LamSco	25	32771
06-JUN-2008 11:31:07	26EpsSco	75	32771
06-JUN-2008 11:33:41	21AlpSco	16	32771
06-JUN-2008 11:36:32	35EtaOph	86	32771
06-JUN-2008 11:38:20	13ZetOph	98	32771
06-JUN-2008 11:40:28	1DelOph	120	32771
06-JUN-2008 11:48:11	27BetHer	127	32771
06-JUN-2008 11:51:27	40ZetHer	133	32771
06-JUN-2008 11:58:41	23BetDra	130	32771
06-JUN-2008 12:09:32	5AlpCep	89	32771
06-JUN-2008 12:15:13	27GamCas	76	32771
06-JUN-2008 12:20:56	57Gam1And	73	32771
06-JUN-2008 12:23:15	43BetAnd	53	32771
06-JUN-2008 12:27:23	6BetAri	105	32771
06-JUN-2008 12:38:46	DSA1068	0	32771
06-JUN-2008 12:40:42	16BetCet	52	32771
06-JUN-2008 12:47:17	AlpPhe	84	32771
06-JUN-2008 12:50:19	24AlpPsA	18	32771

06-JUN-2008 12:53:00	BetGru	63	32772
06-JUN-2008 12:54:58	AlpGru	31	32772
06-JUN-2008 12:59:33	AlpPav	45	32772
06-JUN-2008 13:08:20	TheSco	40	32772
06-JUN-2008 13:10:06	35LamSco	25	32772
06-JUN-2008 13:11:43	26EpsSco	75	32772
06-JUN-2008 13:14:17	21AlpSco	16	32772
06-JUN-2008 13:17:08	35EtaOph	86	32772
06-JUN-2008 13:18:56	13ZetOph	98	32772
06-JUN-2008 13:21:04	1DelOph	120	32772
06-JUN-2008 13:28:46	27BetHer	127	32772
06-JUN-2008 13:32:02	40ZetHer	133	32772
06-JUN-2008 13:39:17	23BetDra	130	32772
06-JUN-2008 13:50:07	5AlpCep	89	32772
06-JUN-2008 13:55:49	27GamCas	76	32772
06-JUN-2008 14:01:32	57Gam1And	73	32772
06-JUN-2008 14:03:51	43BetAnd	53	32772
06-JUN-2008 14:07:59	6BetAri	105	32772
06-JUN-2008 14:19:23	DSA1068	0	32772
06-JUN-2008 14:21:18	16BetCet	52	32772
06-JUN-2008 14:27:53	AlpPhe	84	32772
06-JUN-2008 14:30:56	24AlpPsA	18	32772
06-JUN-2008 14:33:37	BetGru	63	32773
06-JUN-2008 14:35:35	AlpGru	31	32773
06-JUN-2008 14:40:10	AlpPav	45	32773
06-JUN-2008 14:48:56	TheSco	40	32773
06-JUN-2008 14:50:42	35LamSco	25	32773
06-JUN-2008 14:52:20	26EpsSco	75	32773
06-JUN-2008 14:54:53	21AlpSco	16	32773
06-JUN-2008 14:57:44	35EtaOph	86	32773
06-JUN-2008 14:59:32	13ZetOph	98	32773
06-JUN-2008 15:01:40	1DelOph	120	32773
06-JUN-2008 15:09:22	27BetHer	127	32773
06-JUN-2008 15:12:38	40ZetHer	133	32773
06-JUN-2008 15:19:52	23BetDra	130	32773
06-JUN-2008 15:30:42	5AlpCep	89	32773
06-JUN-2008 15:36:24	27GamCas	76	32773
06-JUN-2008 15:42:08	57Gam1And	73	32773
06-JUN-2008 15:44:27	43BetAnd	53	32773
06-JUN-2008 15:48:35	6BetAri	105	32773
06-JUN-2008 16:00:00	DSA1068	0	32773
06-JUN-2008 16:01:55	16BetCet	52	32773
06-JUN-2008 16:08:30	AlpPhe	84	32773
06-JUN-2008 16:11:33	24AlpPsA	18	32773
06-JUN-2008 16:14:14	BetGru	63	32774
06-JUN-2008 16:16:12	AlpGru	31	32774
06-JUN-2008 16:20:47	AlpPav	45	32774
06-JUN-2008 16:29:33	TheSco	40	32774
06-JUN-2008 16:31:18	35LamSco	25	32774
06-JUN-2008 16:32:56	26EpsSco	75	32774
06-JUN-2008 16:35:29	21AlpSco	16	32774
06-JUN-2008 16:38:20	35EtaOph	86	32774
06-JUN-2008 16:40:08	13ZetOph	98	32774
06-JUN-2008 16:42:16	1DelOph	120	32774
06-JUN-2008 16:49:58	27BetHer	127	32774
06-JUN-2008 16:53:13	40ZetHer	133	32774
06-JUN-2008 17:00:28	23BetDra	130	32774
06-JUN-2008 17:11:17	5AlpCep	89	32774
06-JUN-2008 17:17:00	27GamCas	76	32774

06-JUN-2008 17:22:44	57Gam1And	73	32774
06-JUN-2008 17:25:03	43BetAnd	53	32774
06-JUN-2008 17:29:11	6BetAri	105	32774
06-JUN-2008 17:40:36	DSA1068	0	32774
06-JUN-2008 17:42:32	16BetCet	52	32774
06-JUN-2008 17:49:06	AlpPhe	84	32774
06-JUN-2008 17:52:11	24AlpPsA	18	32774
06-JUN-2008 17:54:50	BetGru	63	32775
06-JUN-2008 17:56:49	AlpGru	31	32775
06-JUN-2008 18:01:23	AlpPav	45	32775
06-JUN-2008 18:10:09	TheSco	40	32775
06-JUN-2008 18:11:55	35LamSco	25	32775
06-JUN-2008 18:13:32	26EpsSco	75	32775
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06-JUN-2008 18:20:44	13ZetOph	98	32775
06-JUN-2008 18:22:52	1DelOph	120	32775
06-JUN-2008 18:30:34	27BetHer	127	32775
06-JUN-2008 18:33:49	40ZetHer	133	32775
06-JUN-2008 18:41:03	23BetDra	130	32775
06-JUN-2008 18:51:53	5AlpCep	89	32775
06-JUN-2008 18:57:36	27GamCas	76	32775
06-JUN-2008 19:03:20	57Gam1And	73	32775
06-JUN-2008 19:05:39	43BetAnd	53	32775
06-JUN-2008 19:09:47	6BetAri	105	32775
06-JUN-2008 19:21:13	DSA1068	0	32775
06-JUN-2008 19:23:08	16BetCet	52	32775
06-JUN-2008 19:29:43	AlpPhe	84	32775
06-JUN-2008 19:32:48	24AlpPsA	18	32775
06-JUN-2008 19:35:27	BetGru	63	32776
06-JUN-2008 19:37:26	AlpGru	31	32776
06-JUN-2008 19:42:00	AlpPav	45	32776
06-JUN-2008 19:50:45	TheSco	40	32776
06-JUN-2008 19:52:31	35LamSco	25	32776
06-JUN-2008 19:54:08	26EpsSco	75	32776
06-JUN-2008 19:56:41	21AlpSco	16	32776
06-JUN-2008 19:59:33	35EtaOph	86	32776
06-JUN-2008 20:01:20	13ZetOph	98	32776
06-JUN-2008 20:03:28	1DelOph	120	32776
06-JUN-2008 20:11:09	27BetHer	127	32776
06-JUN-2008 20:14:24	40ZetHer	133	32776
06-JUN-2008 20:21:38	23BetDra	130	32776
06-JUN-2008 20:32:28	5AlpCep	89	32776
06-JUN-2008 20:38:12	27GamCas	76	32776
06-JUN-2008 20:43:56	57Gam1And	73	32776
06-JUN-2008 20:46:15	43BetAnd	53	32776
06-JUN-2008 20:50:23	6BetAri	105	32776
06-JUN-2008 21:01:50	DSA1068	0	32776
06-JUN-2008 21:03:45	16BetCet	52	32776
06-JUN-2008 21:10:19	AlpPhe	84	32776
06-JUN-2008 21:13:26	24AlpPsA	18	32776
06-JUN-2008 21:16:04	BetGru	63	32777
06-JUN-2008 21:18:03	AlpGru	31	32777
06-JUN-2008 21:22:36	AlpPav	45	32777
06-JUN-2008 21:31:22	TheSco	40	32777
06-JUN-2008 21:33:07	35LamSco	25	32777
06-JUN-2008 21:34:44	26EpsSco	75	32777
06-JUN-2008 21:37:17	21AlpSco	16	32777
06-JUN-2008 21:40:09	35EtaOph	86	32777

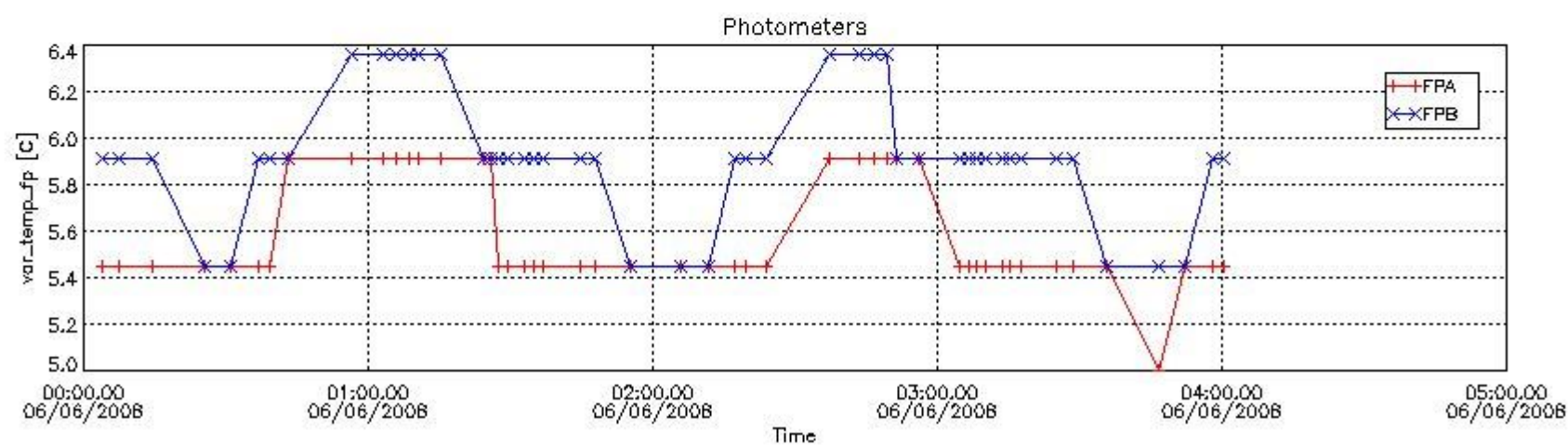
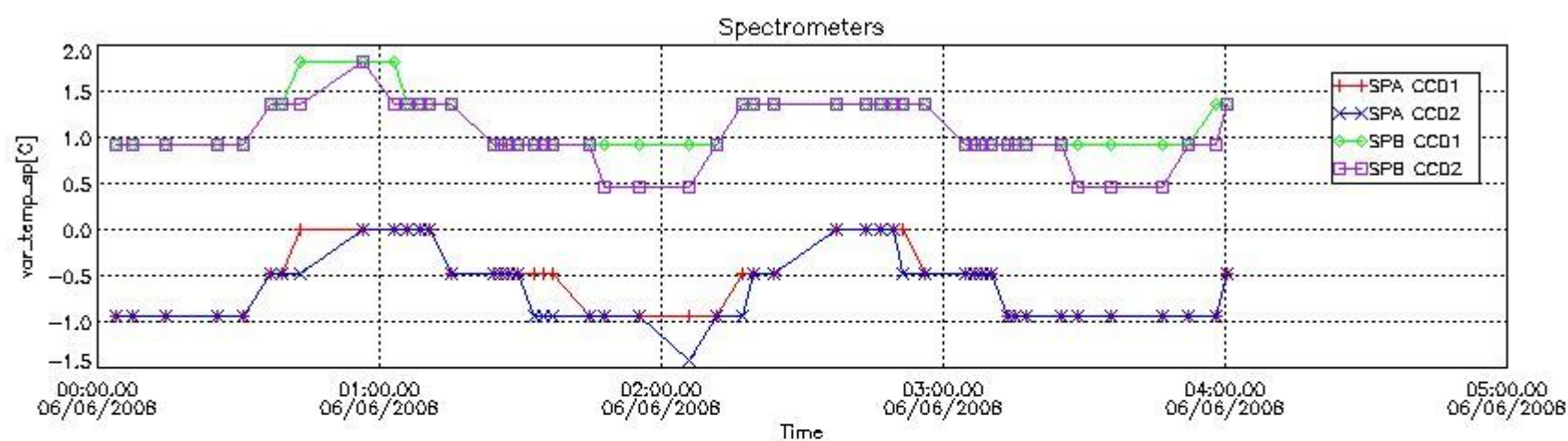
06-JUN-2008 21:41:56	13ZetOph	98	32777
06-JUN-2008 21:44:04	1DelOph	120	32777
06-JUN-2008 21:51:45	27BetHer	127	32777
06-JUN-2008 21:55:00	40ZetHer	133	32777
06-JUN-2008 22:02:14	23BetDra	130	32777
06-JUN-2008 22:13:03	5AlpCep	89	32777
06-JUN-2008 22:18:48	27GamCas	76	32777
06-JUN-2008 22:24:32	57Gam1And	73	32777
06-JUN-2008 22:26:51	43BetAnd	53	32777
06-JUN-2008 22:31:00	6BetAri	105	32777
06-JUN-2008 22:42:27	DSA1068	0	32777
06-JUN-2008 22:44:22	16BetCet	52	32777
06-JUN-2008 22:50:56	AlpPhe	84	32777
06-JUN-2008 22:54:03	24AlpPsA	18	32777
06-JUN-2008 22:56:41	BetGru	63	32778
06-JUN-2008 22:58:40	AlpGru	31	32778
06-JUN-2008 23:03:13	AlpPav	45	32778
06-JUN-2008 23:11:58	TheSco	40	32778
06-JUN-2008 23:13:44	35LamSco	25	32778
06-JUN-2008 23:15:21	26EpsSco	75	32778
06-JUN-2008 23:17:53	21AlpSco	16	32778
06-JUN-2008 23:20:45	35EtaOph	86	32778
06-JUN-2008 23:22:32	13ZetOph	98	32778
06-JUN-2008 23:24:40	1DelOph	120	32778
06-JUN-2008 23:32:21	27BetHer	127	32778
06-JUN-2008 23:35:36	40ZetHer	133	32778
06-JUN-2008 23:42:49	23BetDra	130	32778
06-JUN-2008 23:53:39	5AlpCep	89	32778
06-JUN-2008 23:59:23	27GamCas	76	32778

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_1PNPDE20080606_000404_000000402069_00145_32764_1175.N1	06-JUN-2008 00:04:04	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	32764	No
2	GOM_TRA_1PNPDE20080606_000720_000000422069_00145_32764_1176.N1	06-JUN-2008 00:07:20	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	32764	No
3	GOM_TRA_1PNPDE20080606_001436_000000442069_00145_32764_1177.N1	06-JUN-2008 00:14:36	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	32764	No
4	GOM_TRA_1PNPDE20080606_002527_000000462069_00145_32764_1178.N1	06-JUN-2008 00:25:27	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	32764	No
5	GOM_TRA_1PNPDE20080606_003105_000000572069_00145_32764_1179.N1	06-JUN-2008 00:31:05	Bright	57.000	76	27Gam Cas	2.3000	30000.	114	32764	No
6	GOM_TRA_1PNPDE20080606_003647_000000352069_00145_32764_1180.N1	06-JUN-2008 00:36:47	Bright	34.500	73	57Gam1And	2.2600	13100.	69	32764	No
7	GOM_TRA_1PNPDE20080606_003905_000000592069_00145_32764_1181.N1	06-JUN-2008 00:39:05	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32764	No
8	GOM_TRA_1PNPDE20080606_004312_000000422069_00145_32764_1182.N1	06-JUN-2008 00:43:12	Twilight	42.000	105	6Bet Ari	2.6450	8900.0	84	32764	No
9	GOM_TRA_1PNPDE20080606_005627_000000532069_00145_32764_1296.N1	06-JUN-2008 00:56:27	Dark	53.000	52	16Bet Cet	2.0370	4500.0	106	32764	No
10	GOM_TRA_1PNPDE20080606_010303_000000412069_00145_32764_1297.N1	06-JUN-2008 01:03:03	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32764	No
11	GOM_TRA_1PNPDE20080606_010600_000000632069_00145_32764_1298.N1	06-JUN-2008 01:06:00	Dark	63.000	18	24Alp PsA	1.1660	9700.0	126	32764	No
12	GOM_TRA_1PNPDE20080606_010844_000000522069_00146_32765_1299.N1	06-JUN-2008 01:08:44	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	32765	No
13	GOM_TRA_1PNPDE20080606_011042_000000492069_00146_32765_1300.N1	06-JUN-2008 01:10:42	Dark	49.000	31	Alp Gru	1.7340	15200.	98	32765	No
14	GOM_TRA_1PNPDE20080606_011520_000000432069_00146_32765_1301.N1	06-JUN-2008 01:15:20	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	32765	No
15	GOM_TRA_1PNPDE20080606_012408_000000432069_00146_32765_1302.N1	06-JUN-2008 01:24:08	Straylight	43.000	40	The Sco	1.8590	7100.0	86	32765	No
16	GOM_TRA_1PNPDE20080606_012554_000000442069_00146_32765_1303.N1	06-JUN-2008 01:25:54	Twilight	44.000	25	35Lam Sco	1.6200	28000.	88	32765	No
17	GOM_TRA_1PNPDE20080606_012732_000000432069_00146_32765_1304.N1	06-JUN-2008 01:27:32	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	32765	No
18	GOM_TRA_1PNPDE20080606_012930_000000442069_00146_32765_1305.N1	06-JUN-2008 01:29:30	Bright	43.500	136	23Tau Sco	2.8220	30000.	87	32765	No
19	GOM_TRA_1PNPDE20080606_013259_000000422069_00146_32765_1306.N1	06-JUN-2008 01:32:59	Bright	42.000	86	35Eta Oph	2.4300	10200.	84	32765	No
20	GOM_TRA_1PNPDE20080606_013446_000000452069_00146_32765_1307.N1	06-JUN-2008 01:34:46	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	32765	No
21	GOM_TRA_1PNPDE20080606_013655_000000382069_00146_32765_1308.N1	06-JUN-2008 01:36:55	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32765	No
22	GOM_TRA_1PNPDE20080606_014439_000000402069_00146_32765_1309.N1	06-JUN-2008 01:44:39	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	32765	No
23	GOM_TRA_1PNPDE20080606_014756_000000412069_00146_32765_1310.N1	06-JUN-2008 01:47:56	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	32765	No
24	GOM_TRA_1PNPDE20080606_015512_000000422069_00146_32765_1311.N1	06-JUN-2008 01:55:12	Bright	42.000	130	23Bet Dra	2.7990	5800.0	84	32765	No
25	GOM_TRA_1PNPDE20080606_020602_000000472069_00146_32765_1312.N1	06-JUN-2008 02:06:02	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	32765	No

26	GOM_TRA_1PNPDE20080606_021140_000000382069_00146_32765_1445.N1	06-JUN-2008 02:11:40	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	32765	No
27	GOM_TRA_1PNPDE20080606_021723_000000372069_00146_32765_1446.N1	06-JUN-2008 02:17:23	Bright	36.500	73	57Gam1And	2.2600	13100.	73	32765	No
28	GOM_TRA_1PNPDE20080606_021941_000000492069_00146_32765_1447.N1	06-JUN-2008 02:19:41	Bright	48.500	53	43Bet And	2.0480	3300.0	97	32765	No
29	GOM_TRA_1PNPDE20080606_022348_000000412069_00146_32765_1448.N1	06-JUN-2008 02:23:48	Twilight	40.500	105	6Bet Ari	2.6450	8900.0	81	32765	No
30	GOM_TRA_1PNPDE20080606_023704_000000472069_00146_32765_1449.N1	06-JUN-2008 02:37:04	Dark	46.500	52	16Bet Cet	2.0370	4500.0	93	32765	No
31	GOM_TRA_1PNPDE20080606_024340_000000422069_00146_32765_1450.N1	06-JUN-2008 02:43:40	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	32765	No
32	GOM_TRA_1PNPDE20080606_024637_000000572069_00146_32765_1451.N1	06-JUN-2008 02:46:37	Dark	56.500	18	24Alp PsA	1.1660	9700.0	113	32765	No
33	GOM_TRA_1PNPDE20080606_024921_000000562069_00147_32766_1452.N1	06-JUN-2008 02:49:21	Dark	56.000	63	Bet Gru	2.1500	2800.0	112	32766	No
34	GOM_TRA_1PNPDE20080606_025119_000000462069_00147_32766_1453.N1	06-JUN-2008 02:51:19	Dark	45.500	31	Alp Gru	1.7340	15200.	91	32766	No
35	GOM_TRA_1PNPDE20080606_025556_000000432069_00147_32766_1454.N1	06-JUN-2008 02:55:56	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32766	No
36	GOM_TRA_1PNPDE20080606_030445_000000432069_00147_32766_1455.N1	06-JUN-2008 03:04:45	Straylight	42.500	40	The Sco	1.8590	7100.0	85	32766	No
37	GOM_TRA_1PNPDE20080606_030631_000000442069_00147_32766_1456.N1	06-JUN-2008 03:06:31	Twilight	43.500	25	35Lam Sco	1.6200	28000.	87	32766	No
38	GOM_TRA_1PNPDE20080606_030809_000000472069_00147_32766_1457.N1	06-JUN-2008 03:08:09	Twilight	46.500	75	26Eps Sco	2.2910	4250.0	93	32766	No
39	GOM_TRA_1PNPDE20080606_031007_000000472069_00147_32766_1458.N1	06-JUN-2008 03:10:07	Bright	46.500	136	23Tau Sco	2.8220	30000.	93	32766	No
40	GOM_TRA_1PNPDE20080606_031335_000000432069_00147_32766_1459.N1	06-JUN-2008 03:13:35	Bright	42.500	86	35Eta Oph	2.4300	10200.	85	32766	No
41	GOM_TRA_1PNPDE20080606_031523_000000562069_00147_32766_1460.N1	06-JUN-2008 03:15:23	Bright	56.000	98	13Zet Oph	2.5710	30000.	112	32766	No
42	GOM_TRA_1PNPDE20080606_031731_000000382069_00147_32766_1461.N1	06-JUN-2008 03:17:31	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	32766	No
43	GOM_TRA_1PNPDE20080606_032515_000000402069_00147_32766_1462.N1	06-JUN-2008 03:25:15	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	32766	No
44	GOM_TRA_1PNPDE20080606_032831_000000602069_00147_32766_1463.N1	06-JUN-2008 03:28:31	Bright	60.000	133	40Zet Her	2.8070	6000.0	120	32766	No
45	GOM_TRA_1PNPDE20080606_033547_000000392069_00147_32766_1464.N1	06-JUN-2008 03:35:47	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	32766	No
46	GOM_TRA_1PNPDE20080606_034637_000000462069_00147_32766_1465.N1	06-JUN-2008 03:46:37	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32766	No
47	GOM_TRA_1PNPDE20080606_035216_000000492069_00147_32766_1621.N1	06-JUN-2008 03:52:16	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	32766	No
48	GOM_TRA_1PNPDE20080606_035759_000000372069_00147_32766_1622.N1	06-JUN-2008 03:57:59	Bright	37.000	73	57Gam1And	2.2600	13100.	74	32766	No
49	GOM_TRA_1PNPDE20080606_040017_000000592069_00147_32766_1623.N1	06-JUN-2008 04:00:17	Bright	59.000	53	43Bet And	2.0480	3300.0	118	32766	No

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



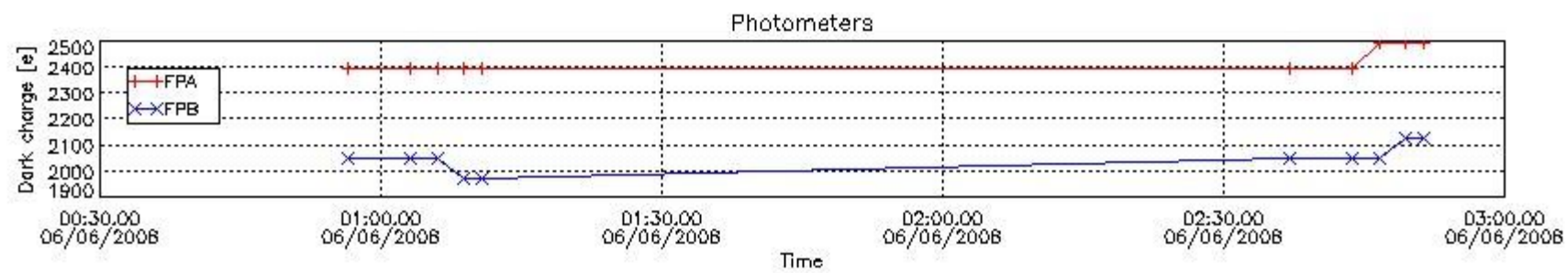
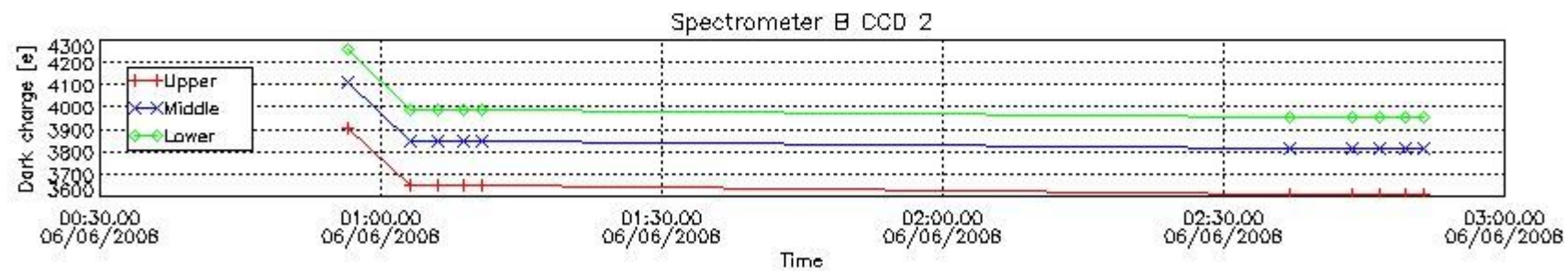
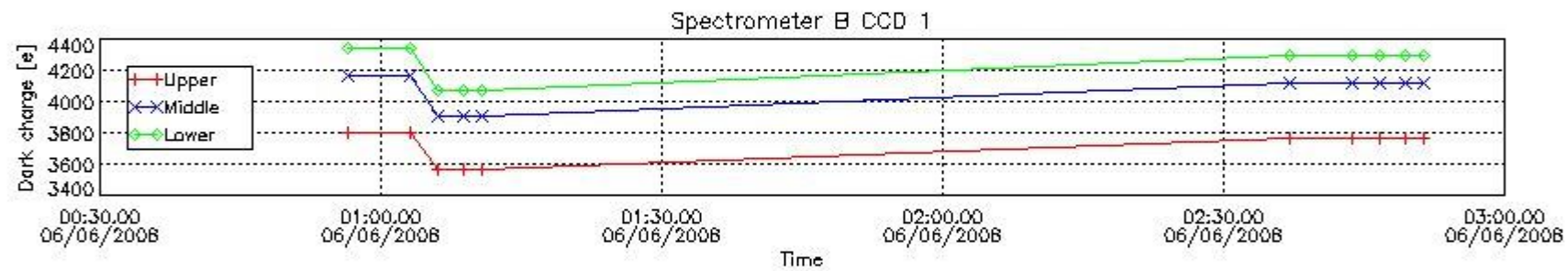
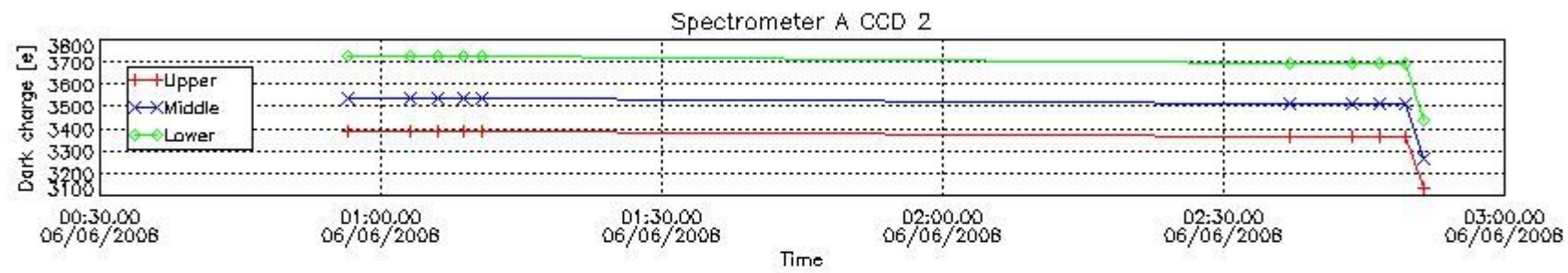
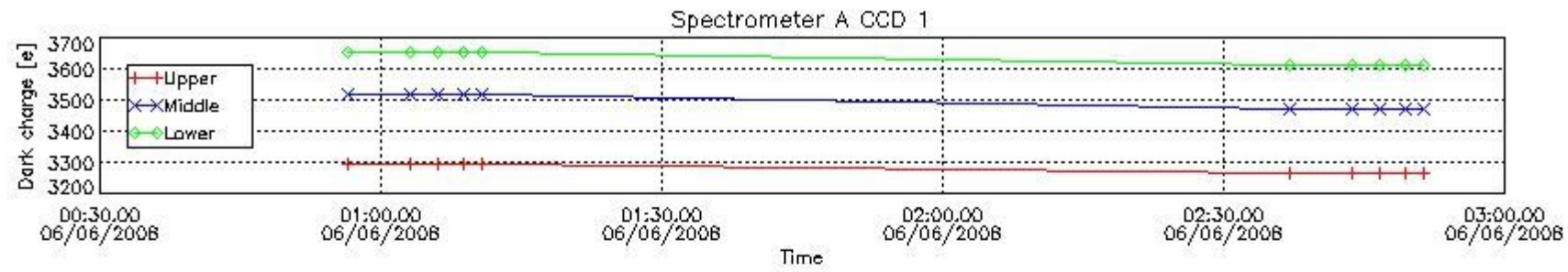
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



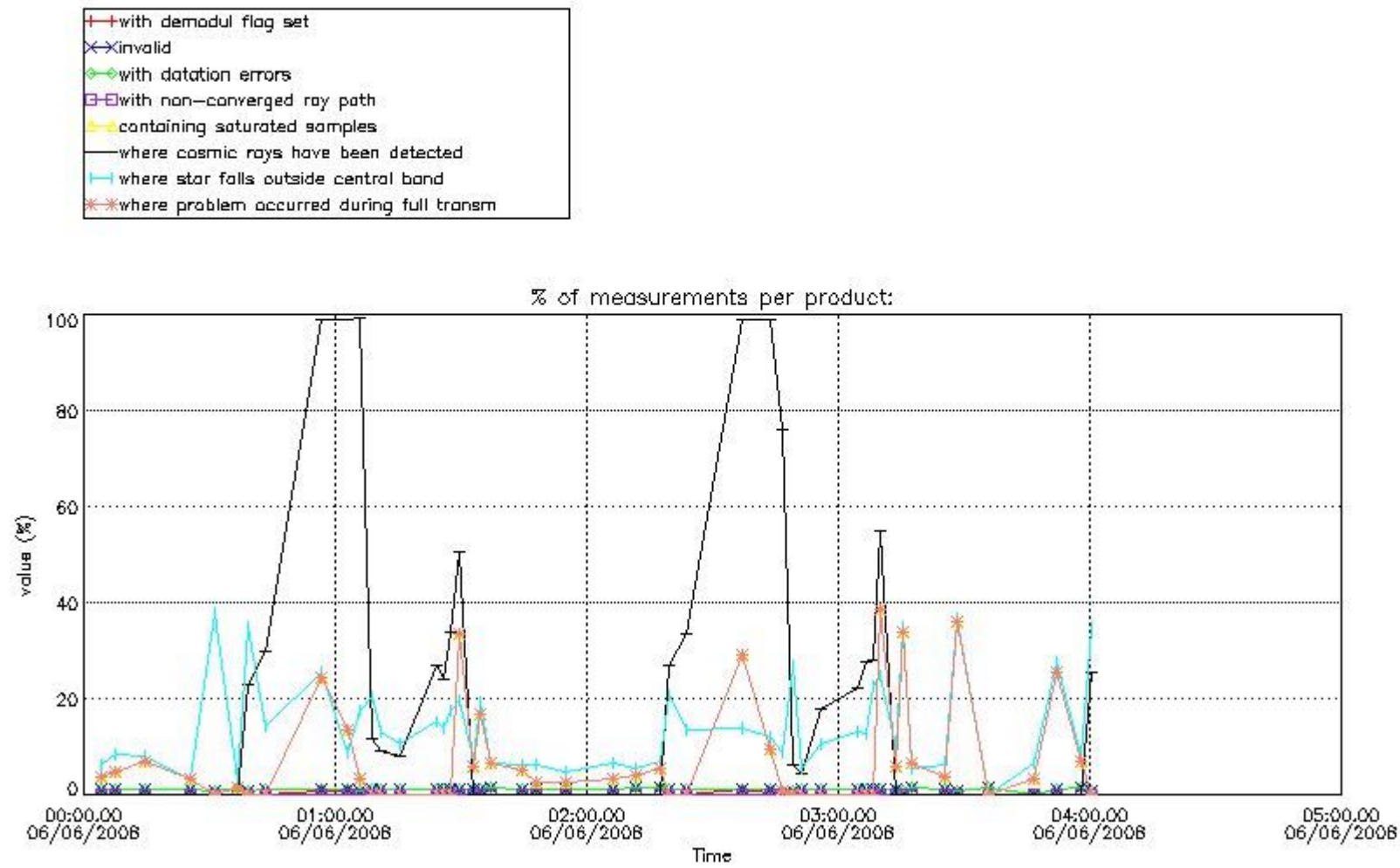
5. Demodulation flag and quality information monitoring

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

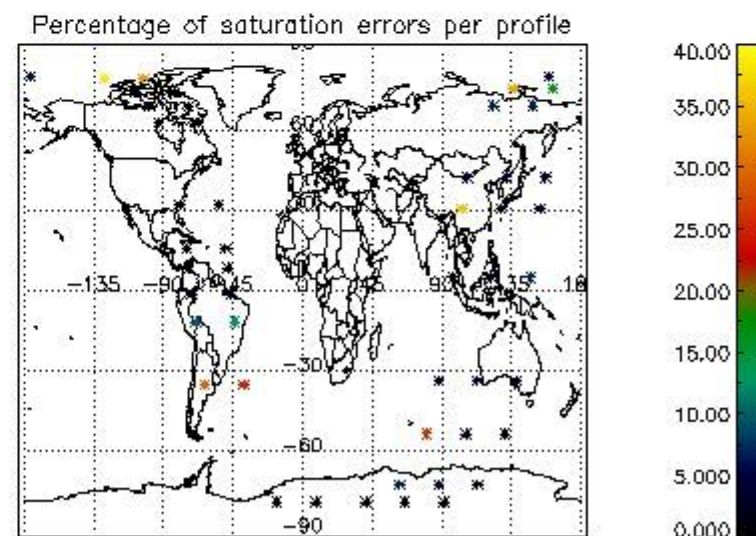
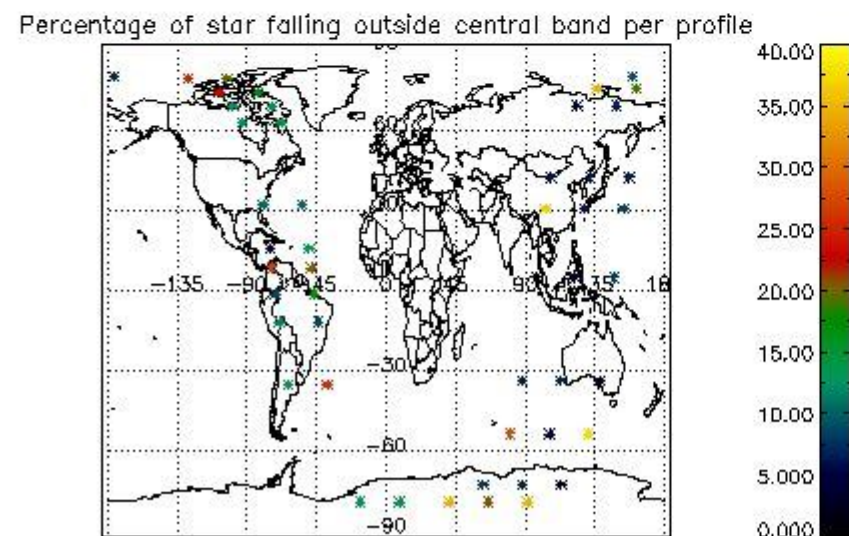
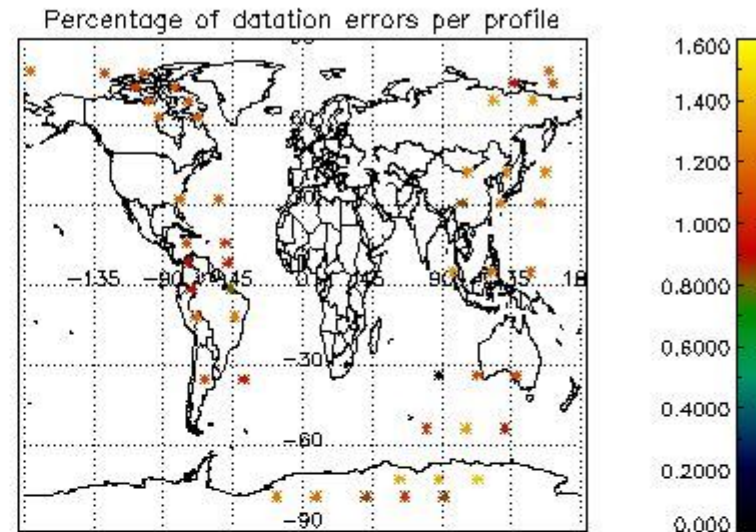
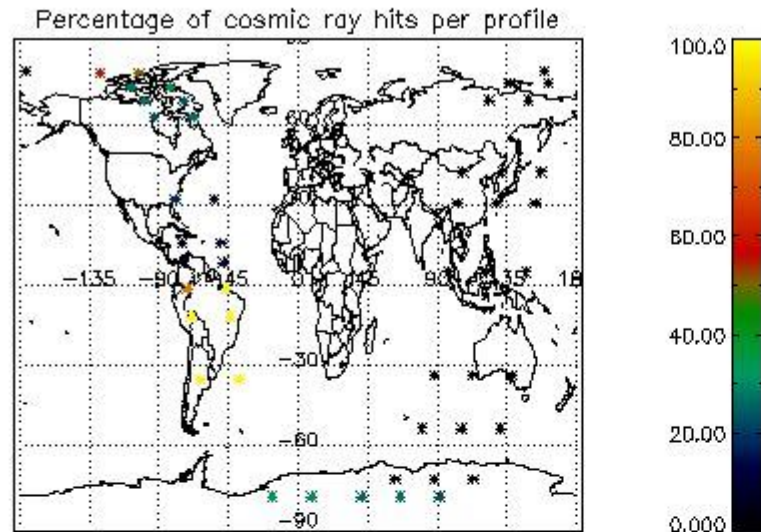
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



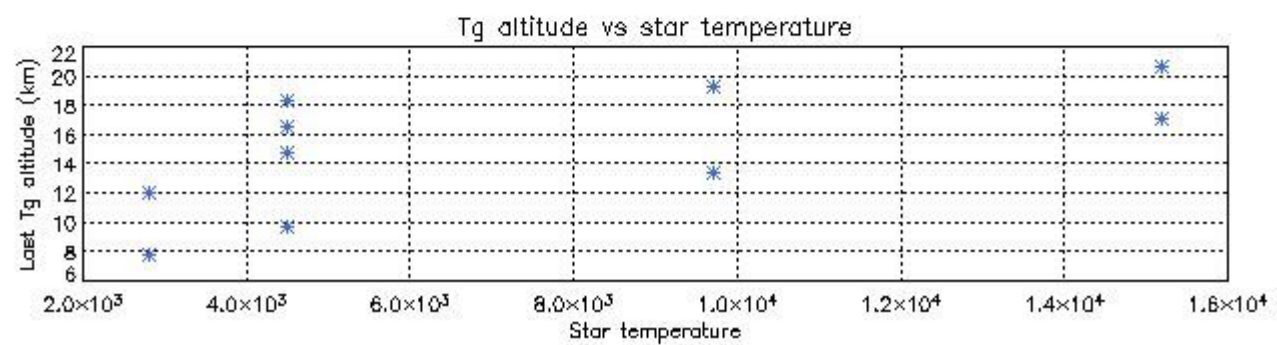
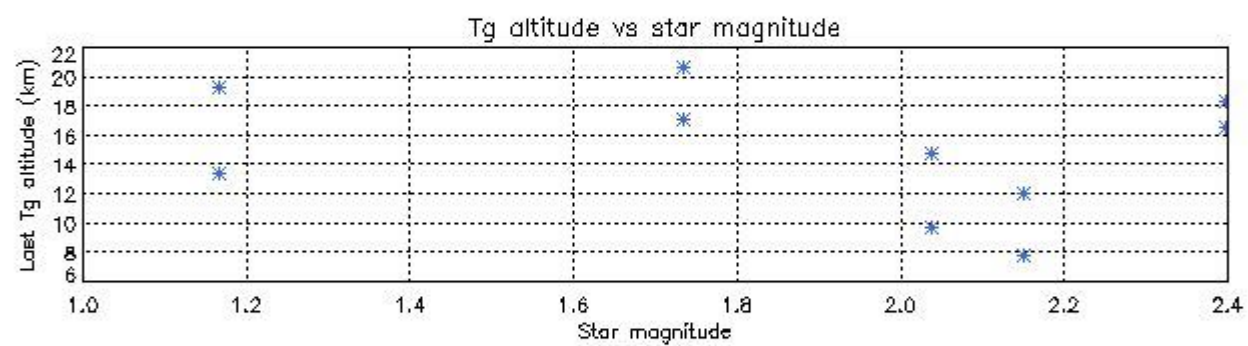
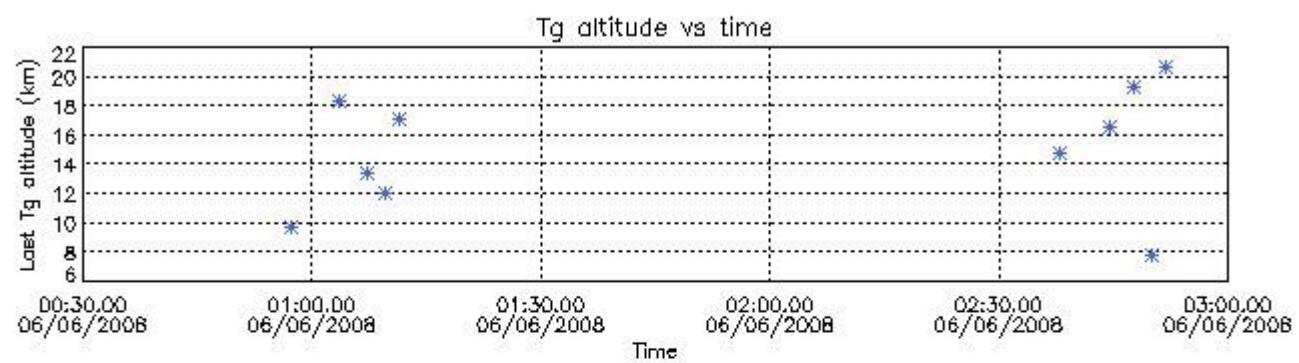
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.947	16.838	14.541
St. deviation:	4.2202	7.4365	1.1922
Maximum:	20.700	28.971	15.384
Minimum:	7.7535	2.6416	13.698
Number of data:	10.000	29.000	2.0000

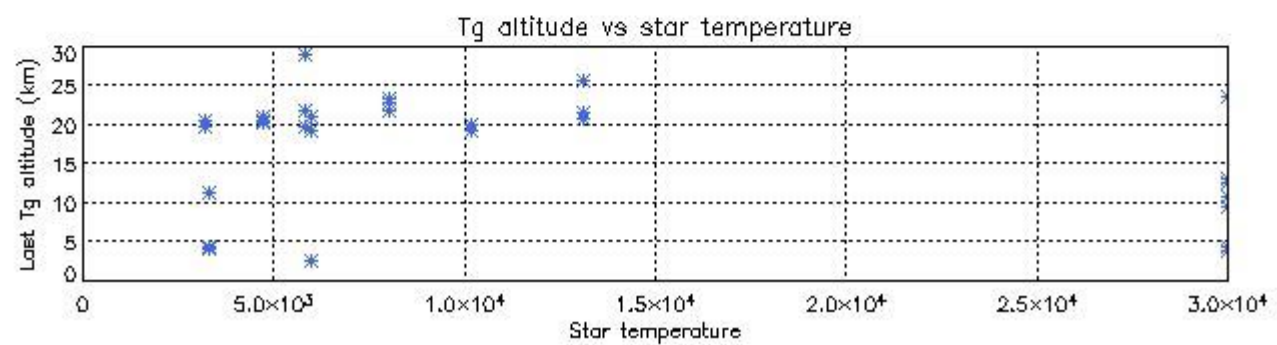
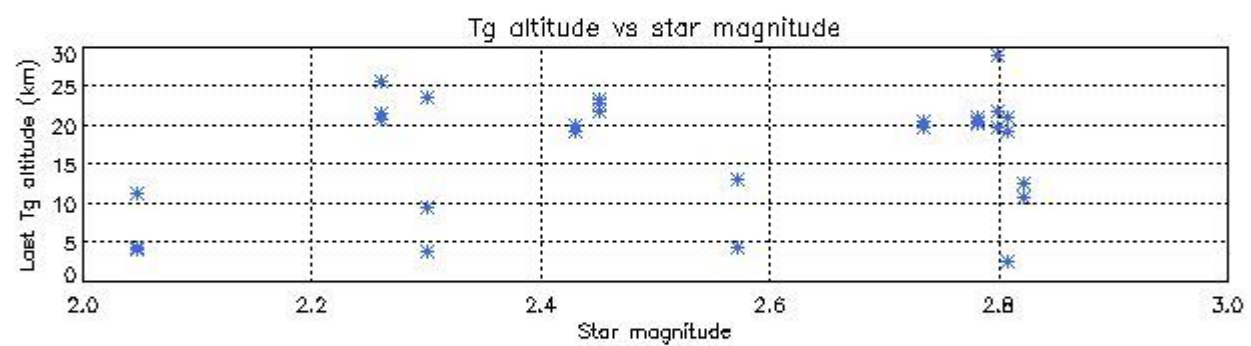
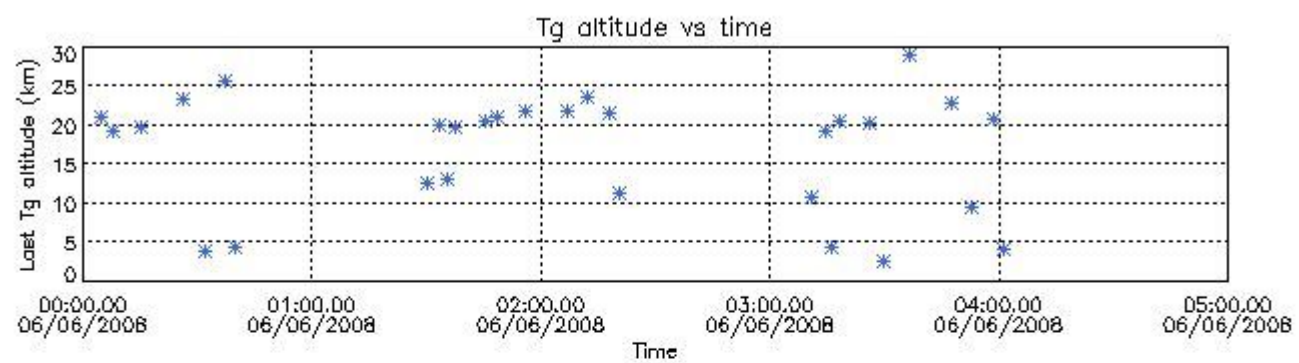
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



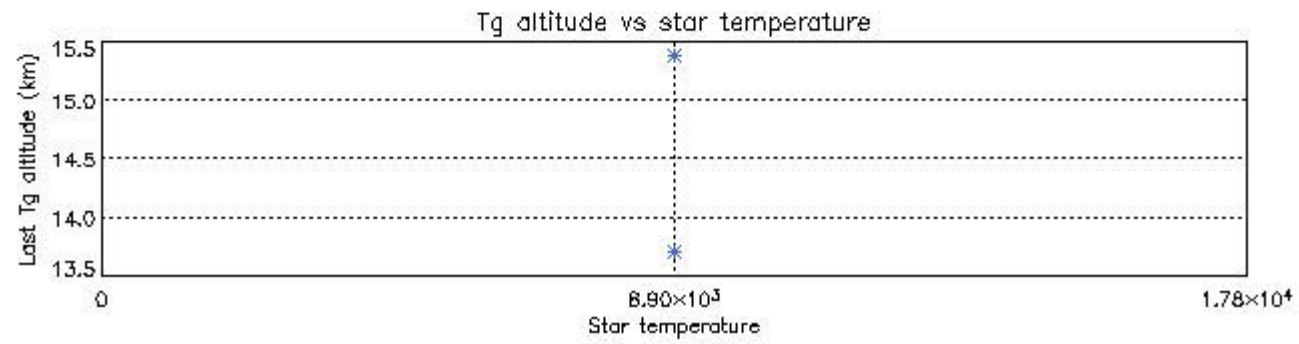
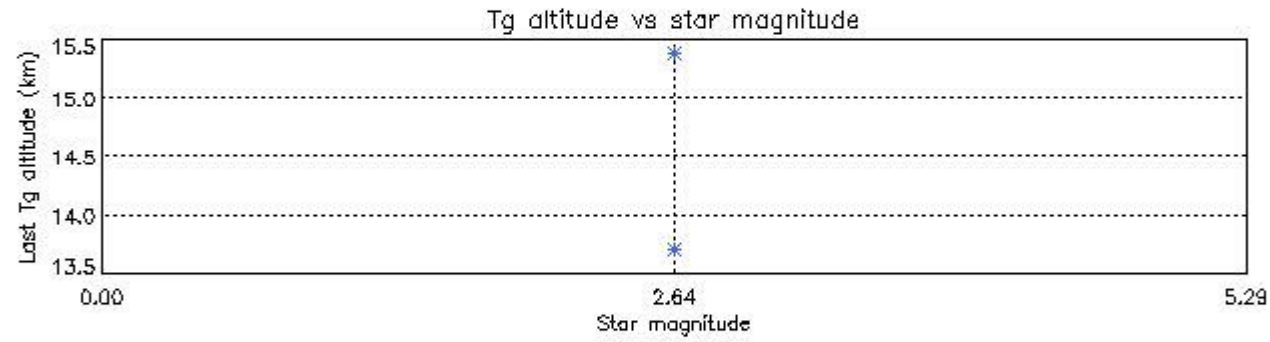
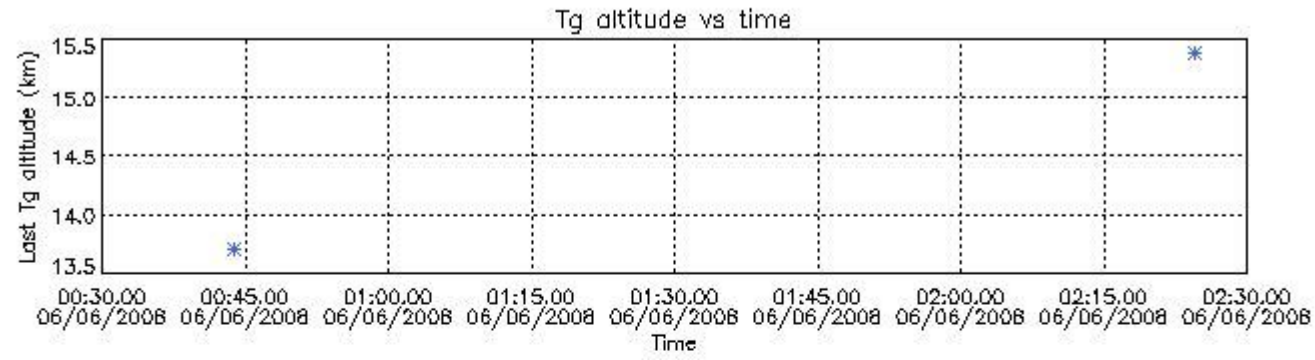
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

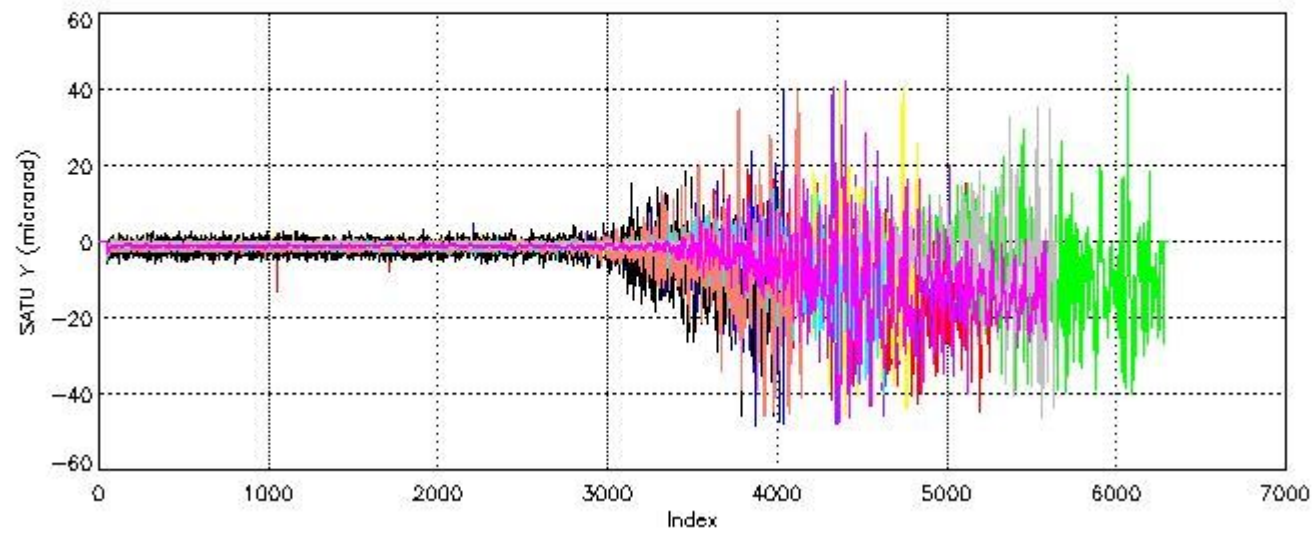
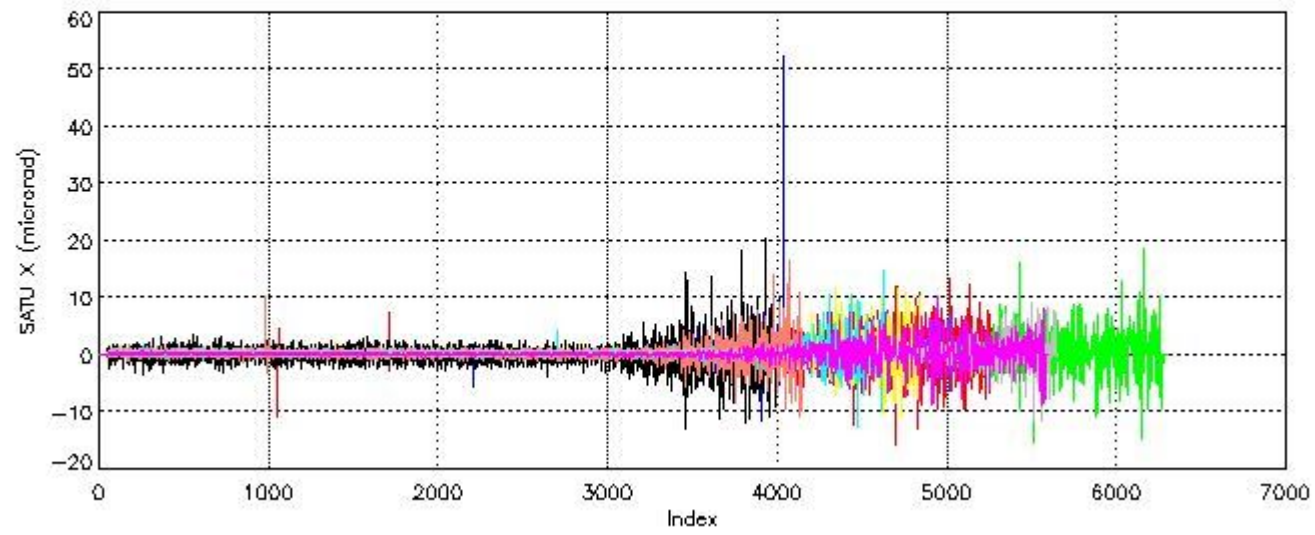


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.24862	-1.1150	0.22954	-1.2093
St. deviation:	0.34176	0.68751	0.77391	1.2429
Maximum:	2.3000	1.8000	4.5000	4.7000
Minimum:	-1.5000	-4.6000	-5.2000	-8.0000

Number of data:	11200.	11200.	27050.	27050.
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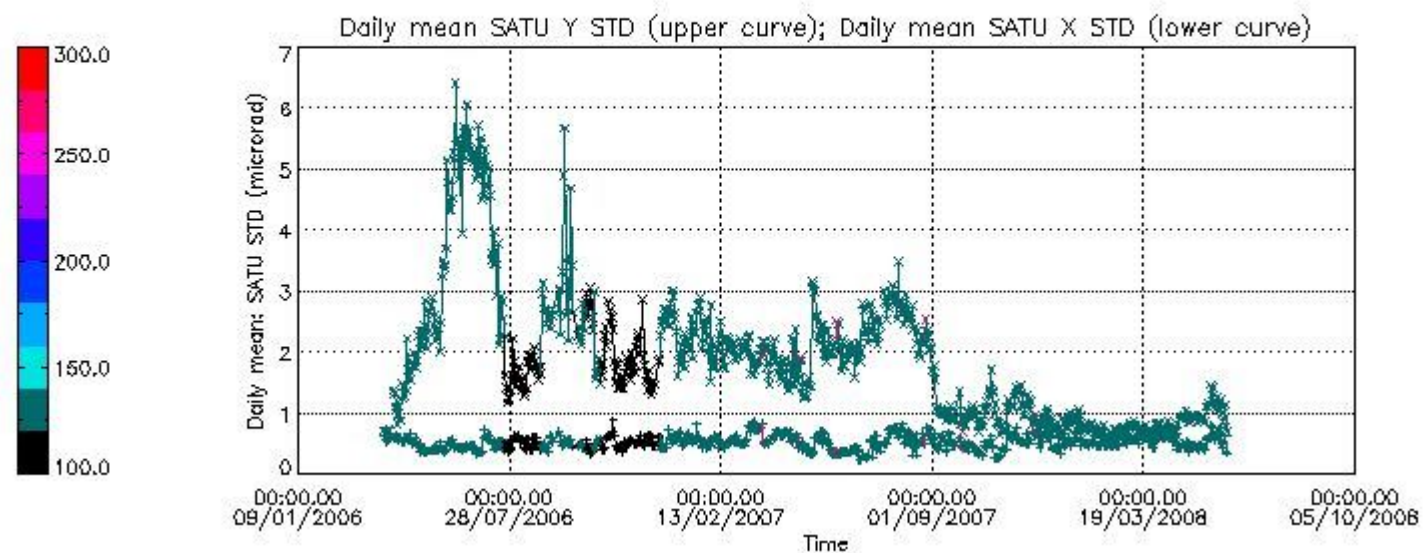
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

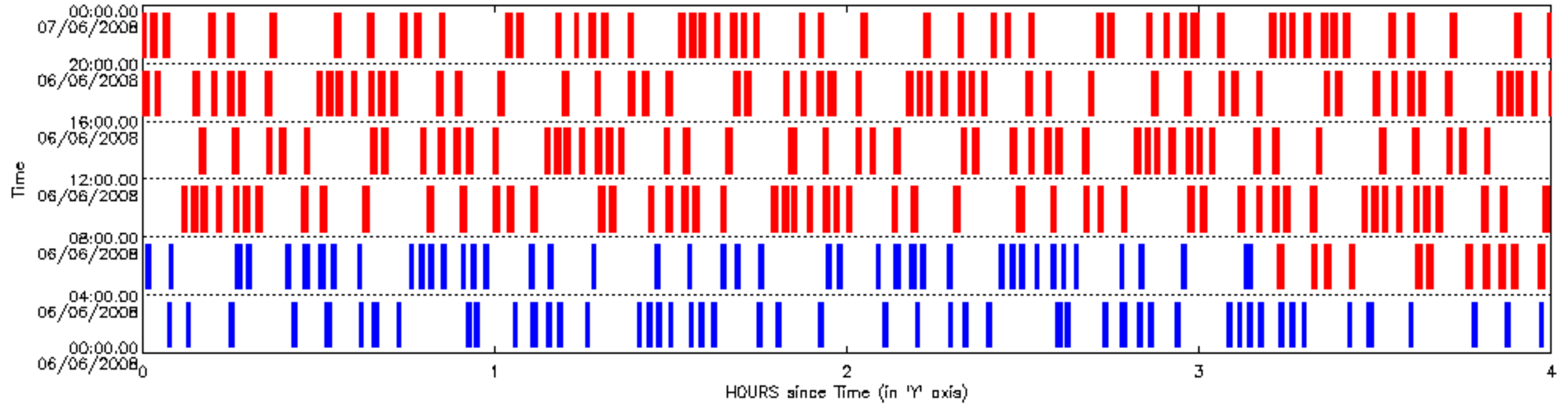
Lower curve: STD of SATU X axis

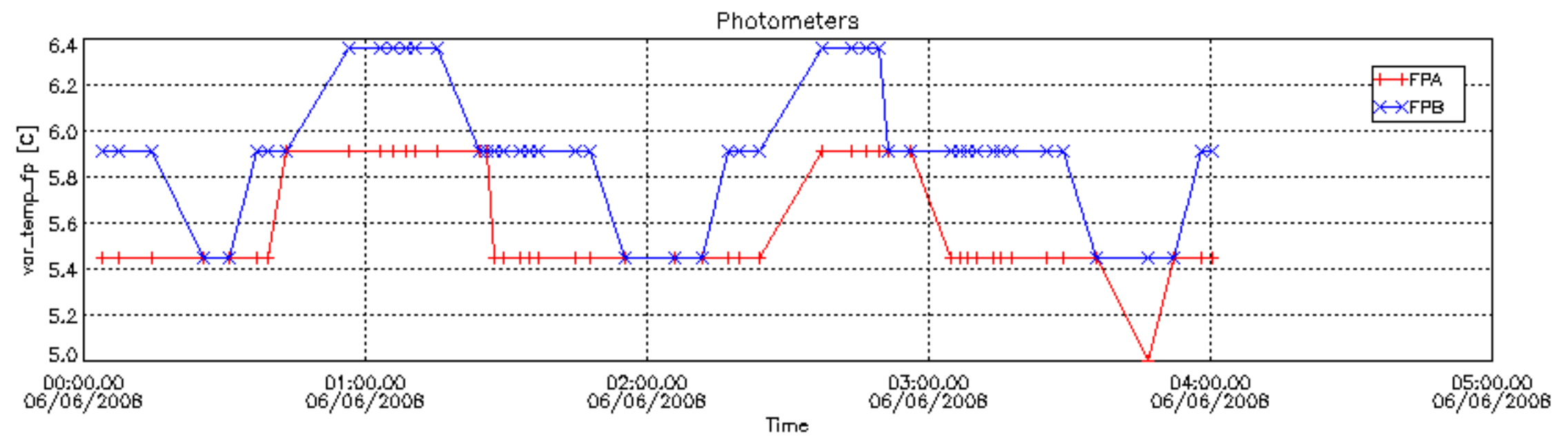
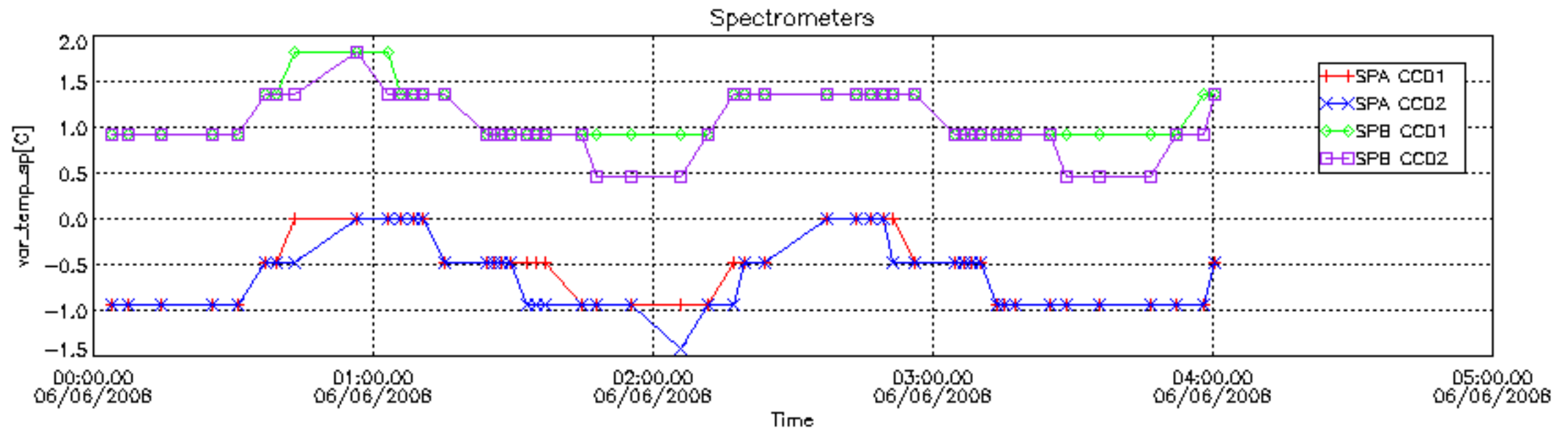


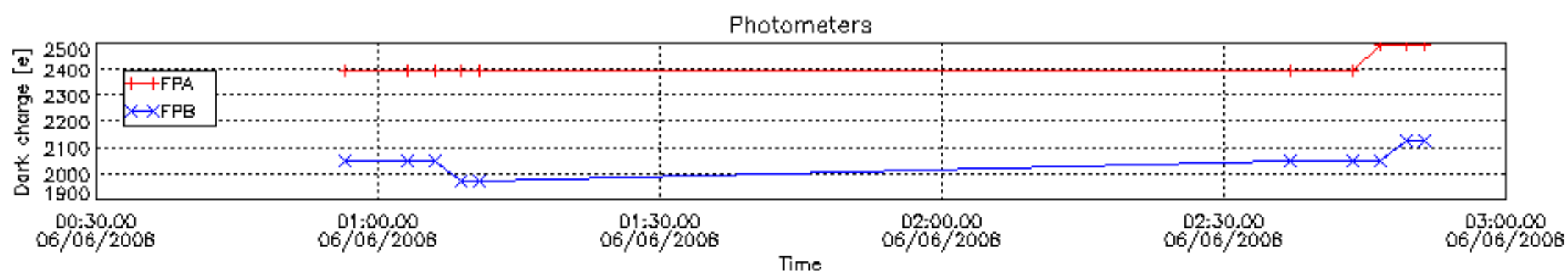
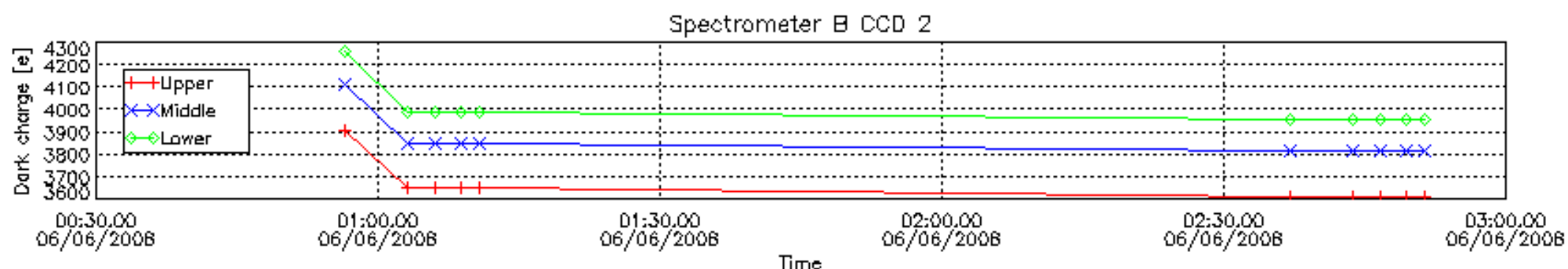
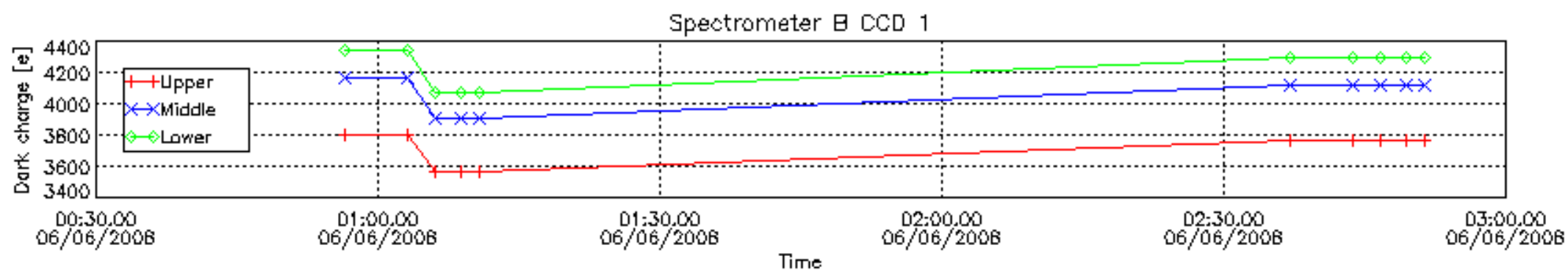
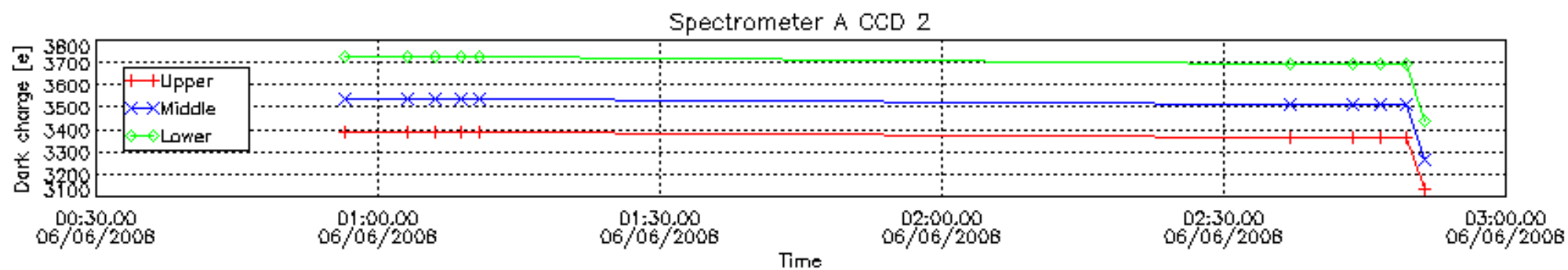
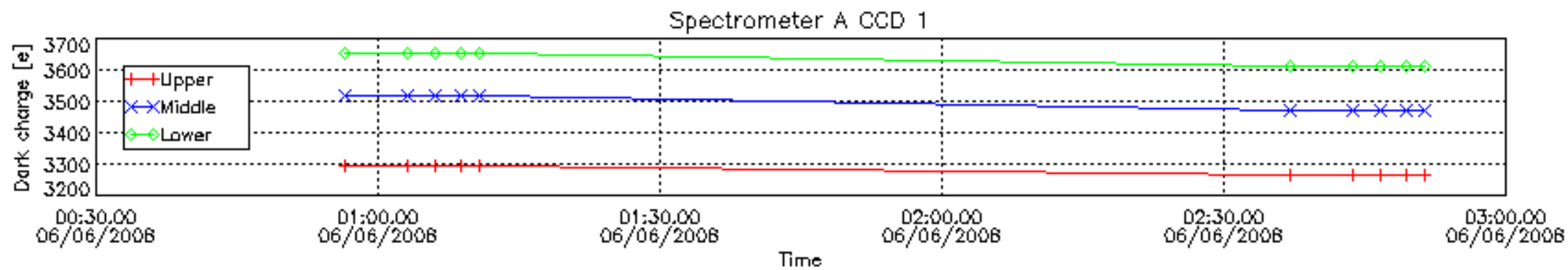
8. Auxiliary Data Files used for the production reported in section 2.4

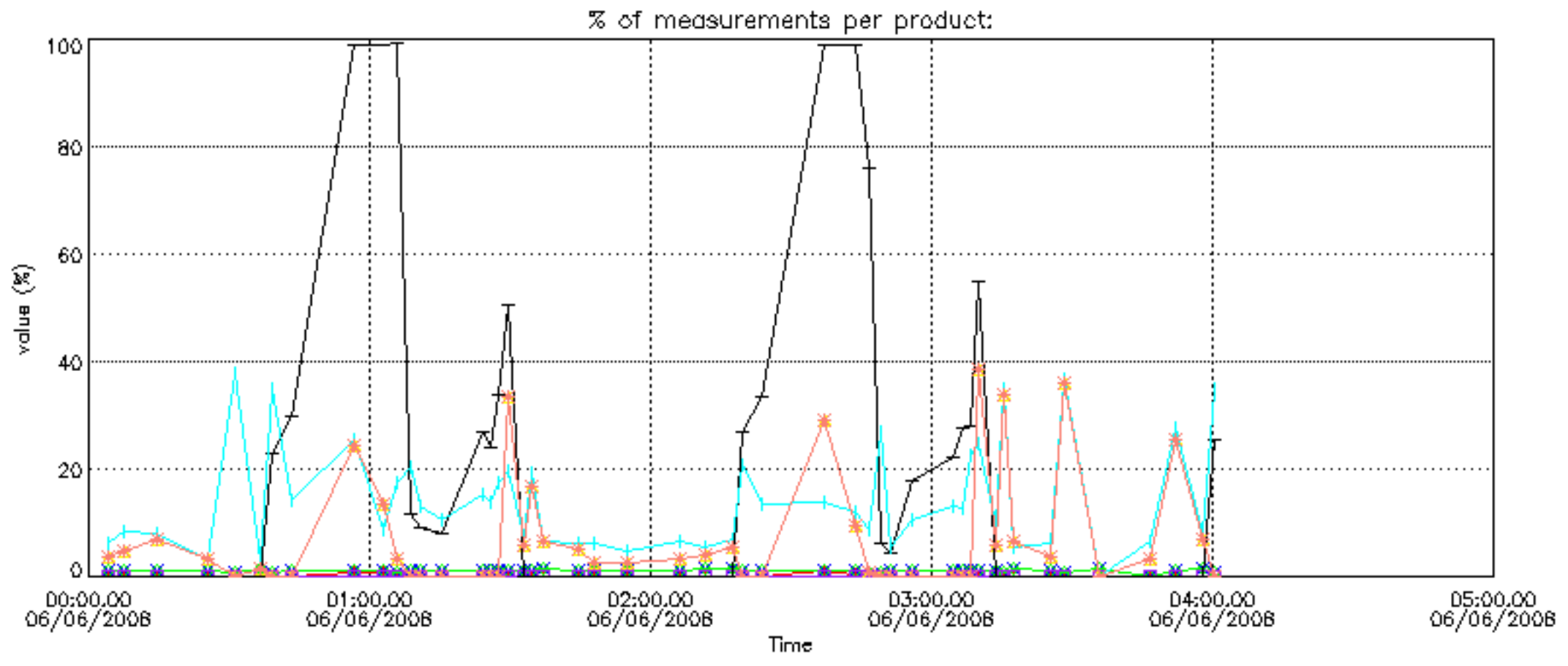
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-JUN-2008 00:04:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080530_132758_20080528_000000_20100101_000000	1	06-JUN-2008 00:04:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-JUN-2008 00:04:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JUN-2008 00:04:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-JUN-2008 00:04:04
ECMWF_FILE	AUX_ECF_AXNECM20080605_072113_20080605_210000_20080606_090000	1	06-JUN-2008 00:04:04
ECMWF_FILE	AUX_ECF_AXNECM20080605_190113_20080606_030000_20080606_150000	47	06-JUN-2008 03:52:16
OPTIONAL_ECMWF_FILE	MISSING	1	06-JUN-2008 00:04:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080605_213021_000057382069_00143_32762_5677.N1	1	06-JUN-2008 00:04:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080605_231118_000057382069_00144_32763_5678.N1	9	06-JUN-2008 00:56:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080606_020638_000057382069_00146_32765_5680.N1	26	06-JUN-2008 02:11:40

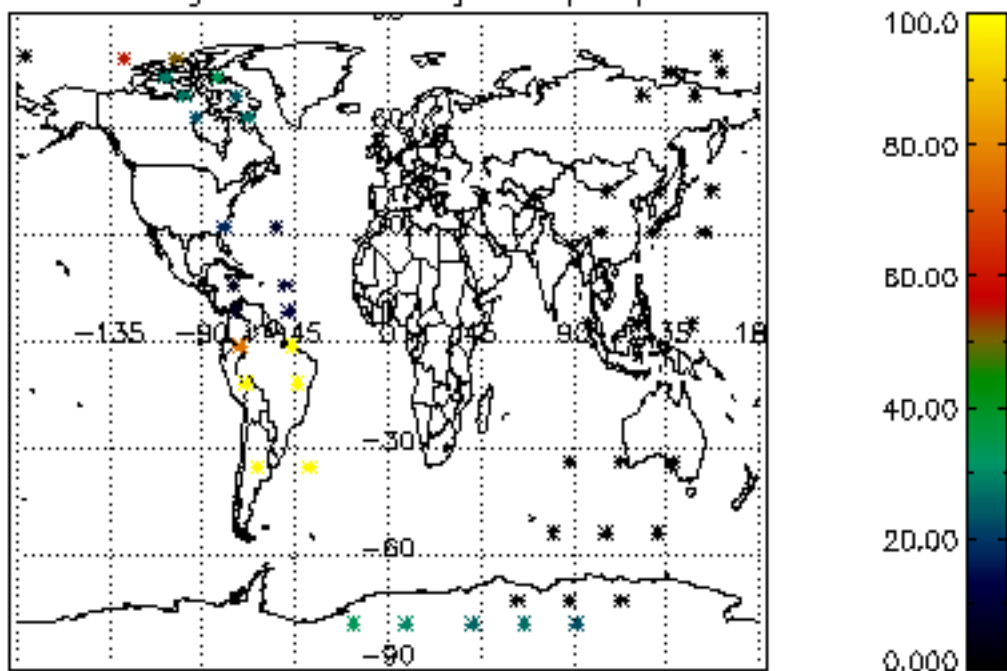




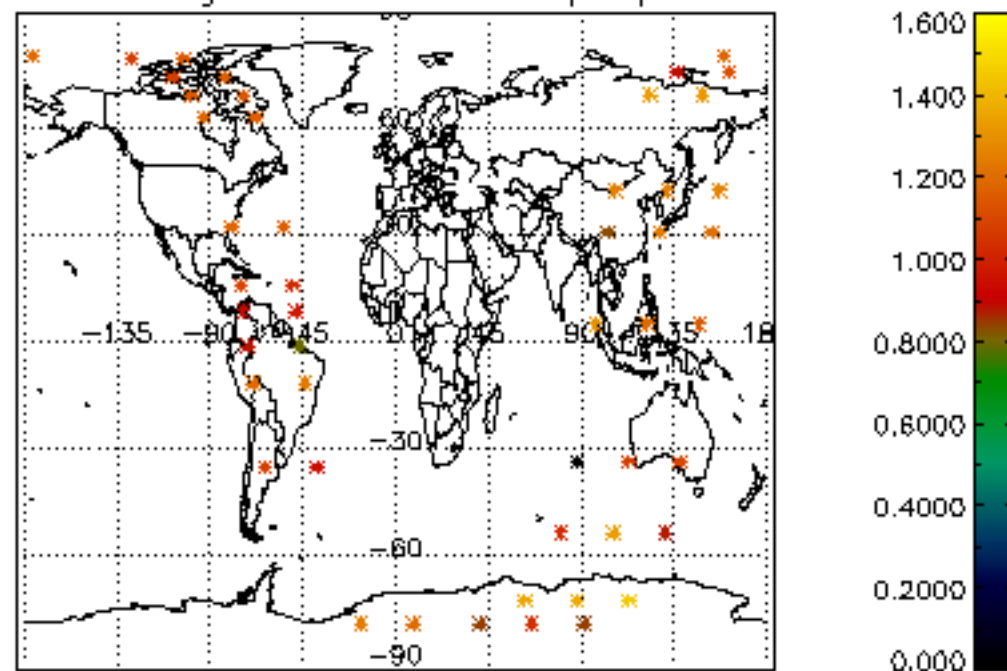




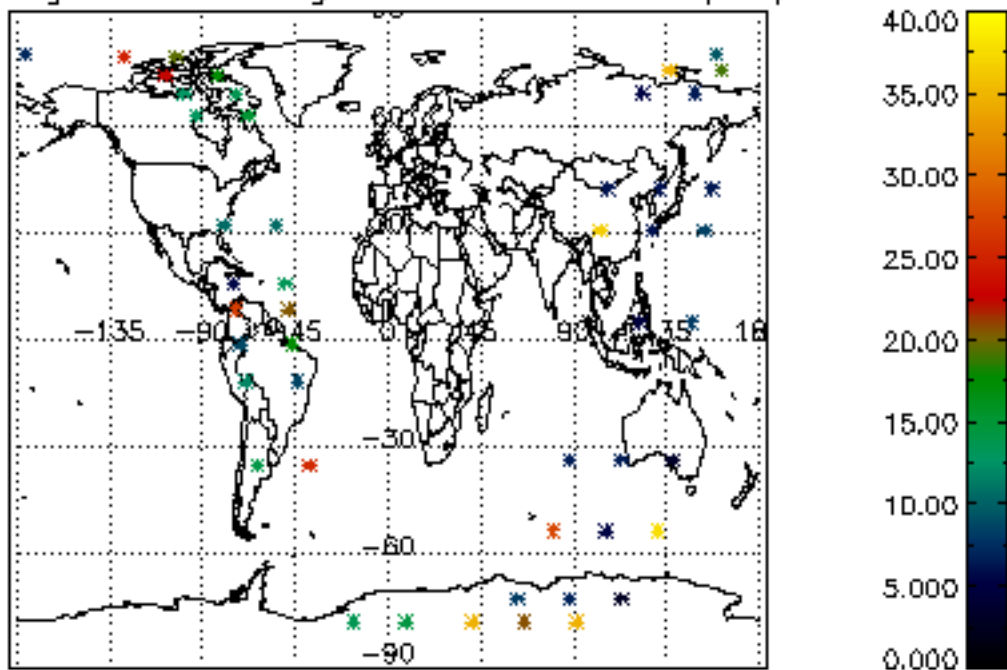
Percentage of cosmic ray hits per profile



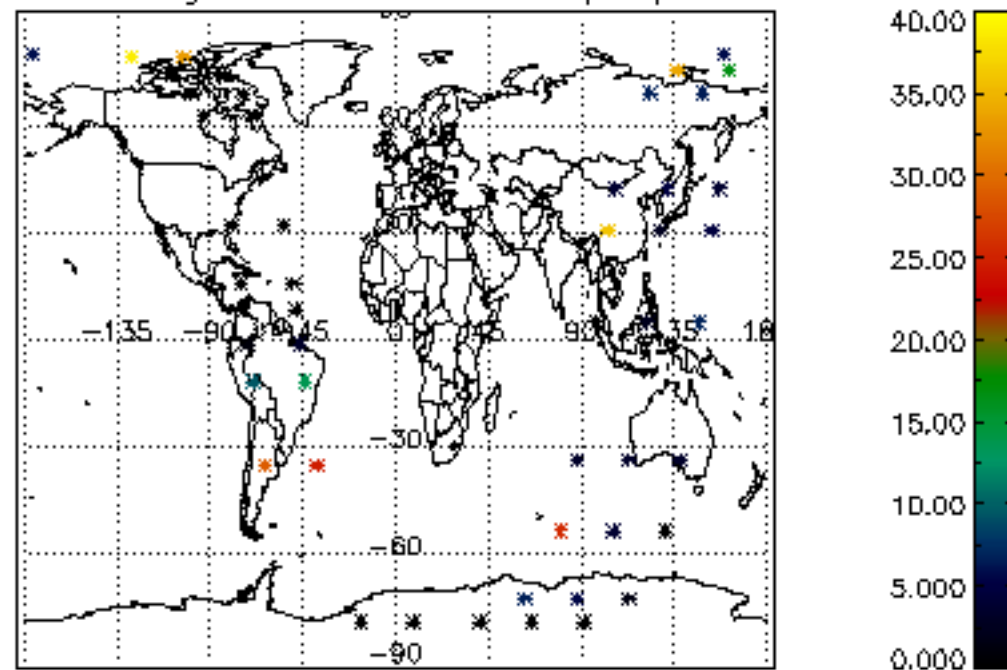
Percentage of datation errors per profile



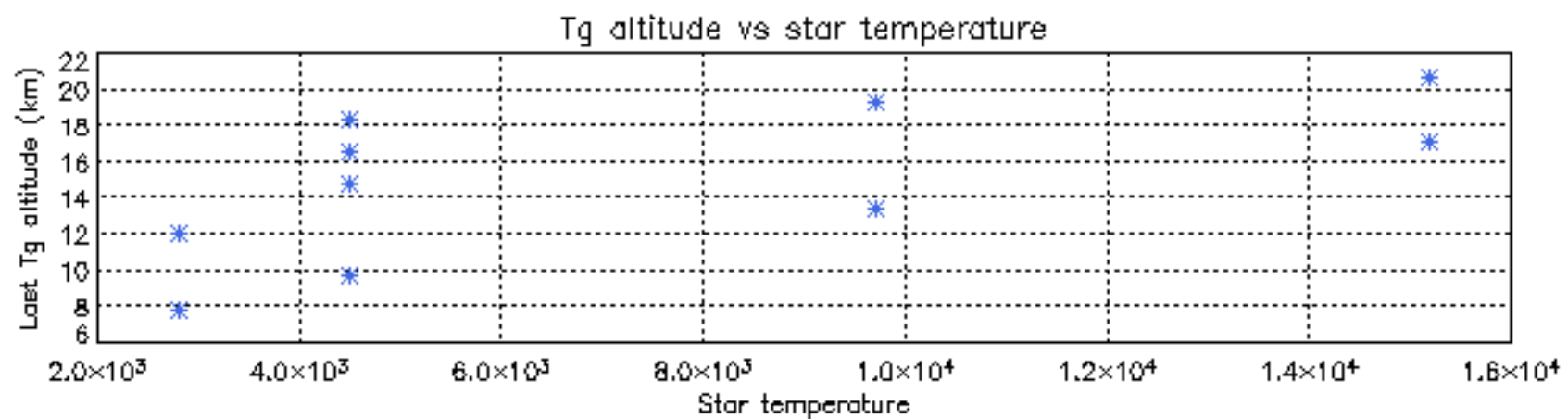
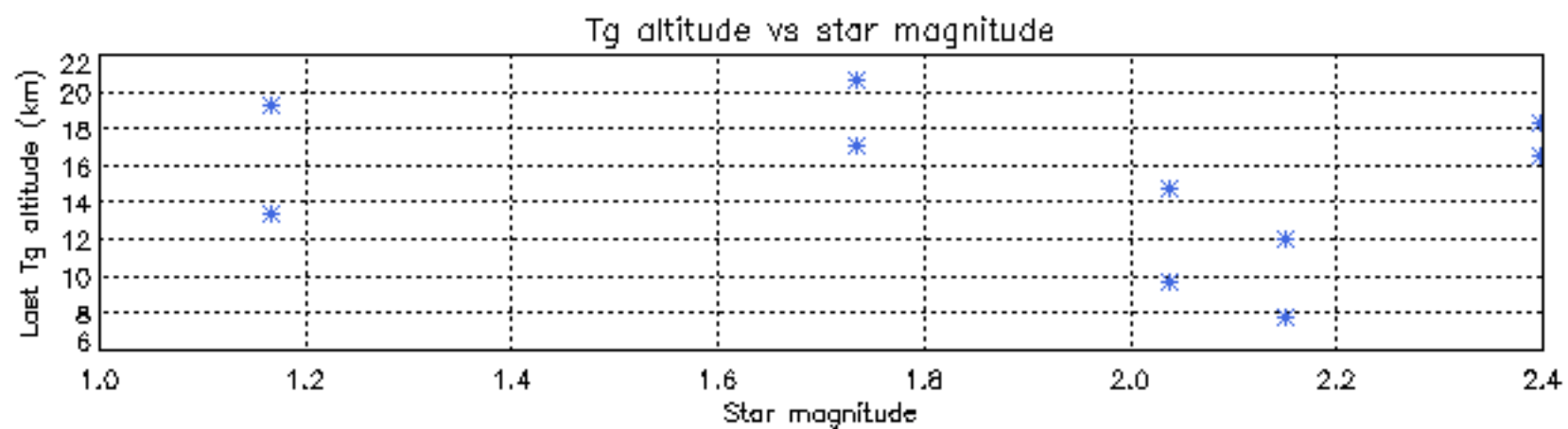
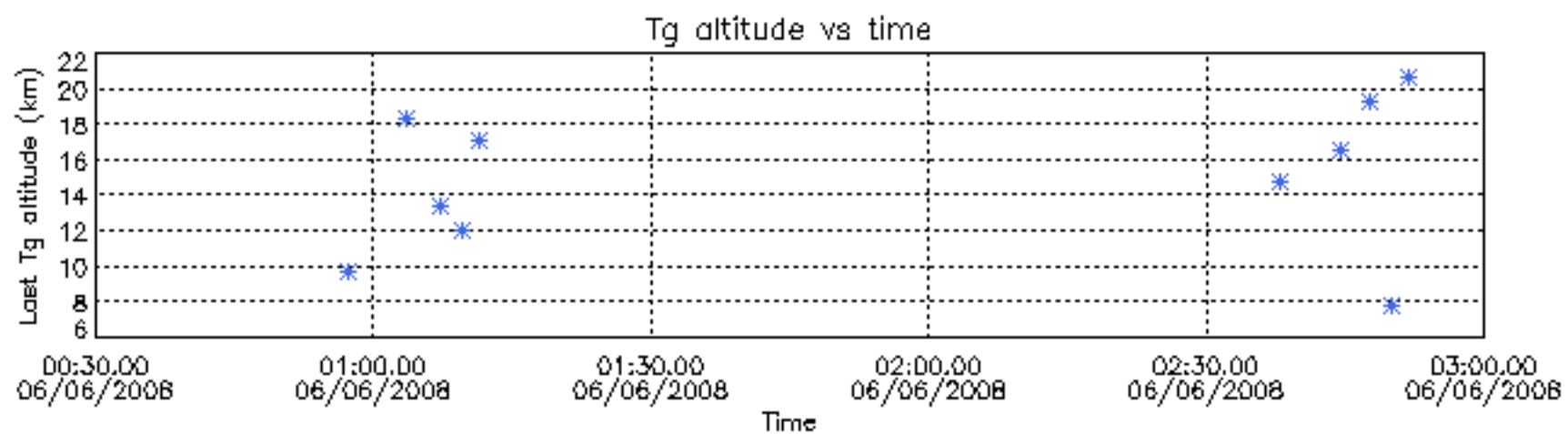
Percentage of star falling outside central band per profile



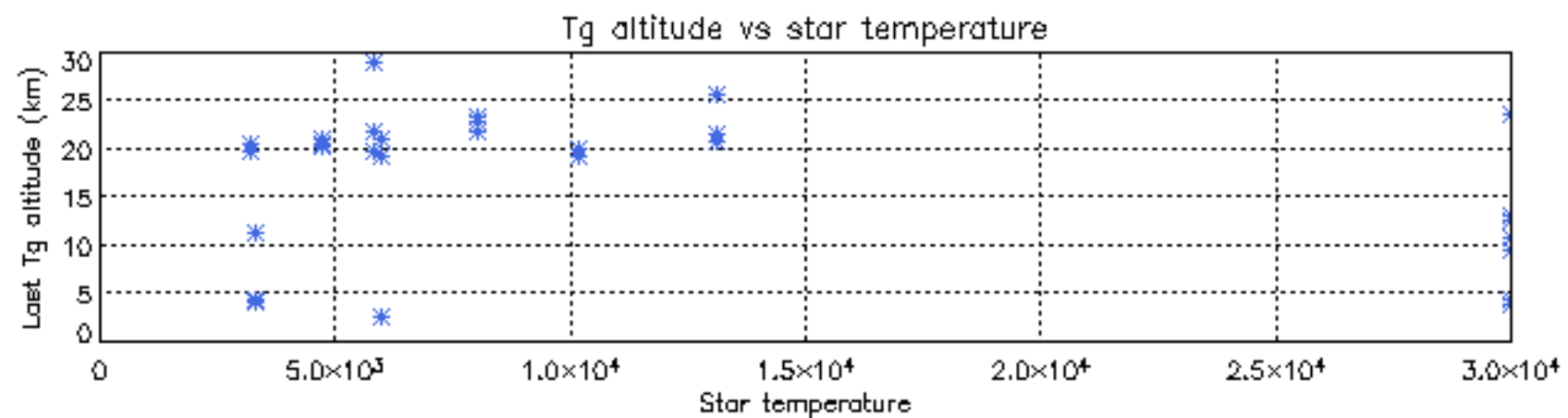
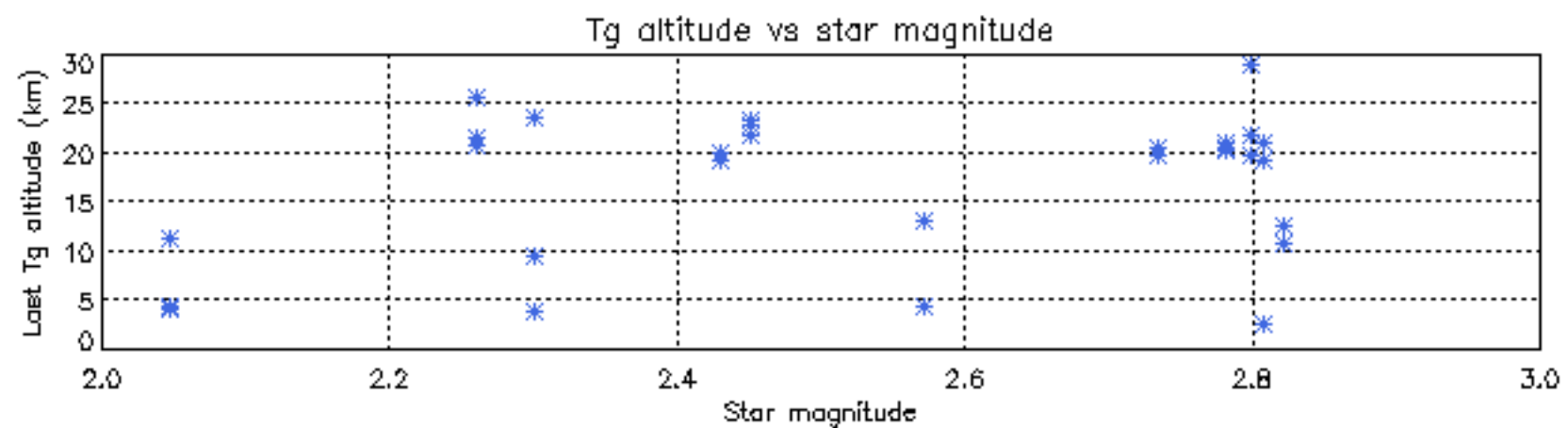
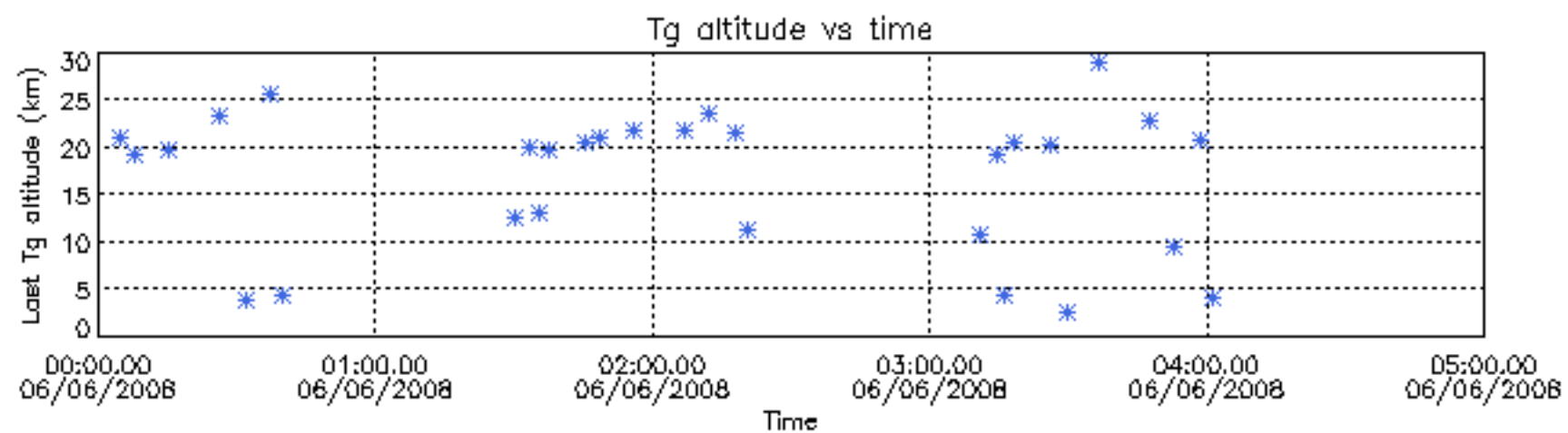
Percentage of saturation errors per profile



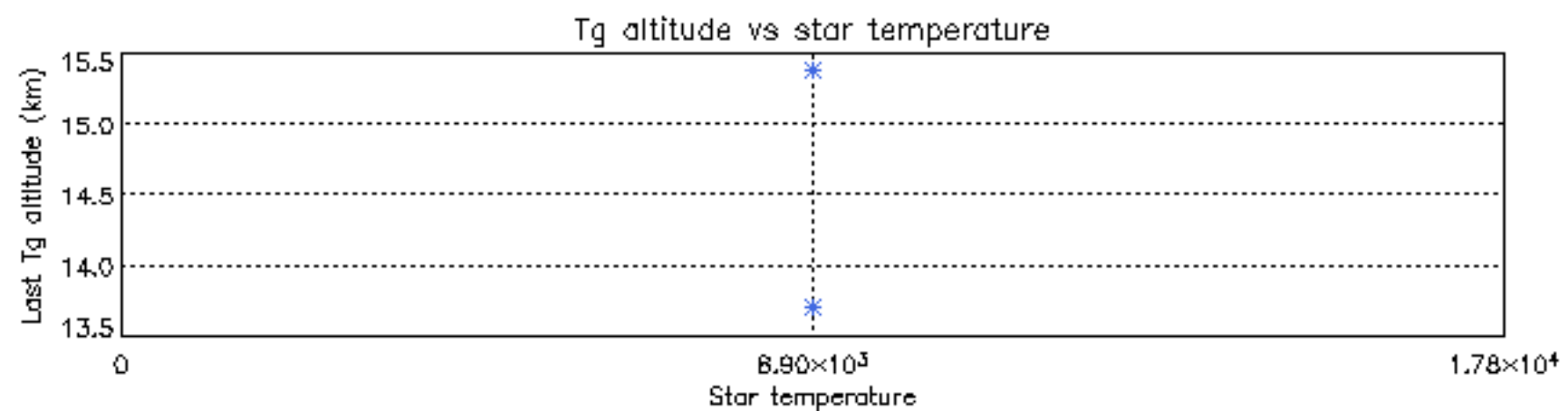
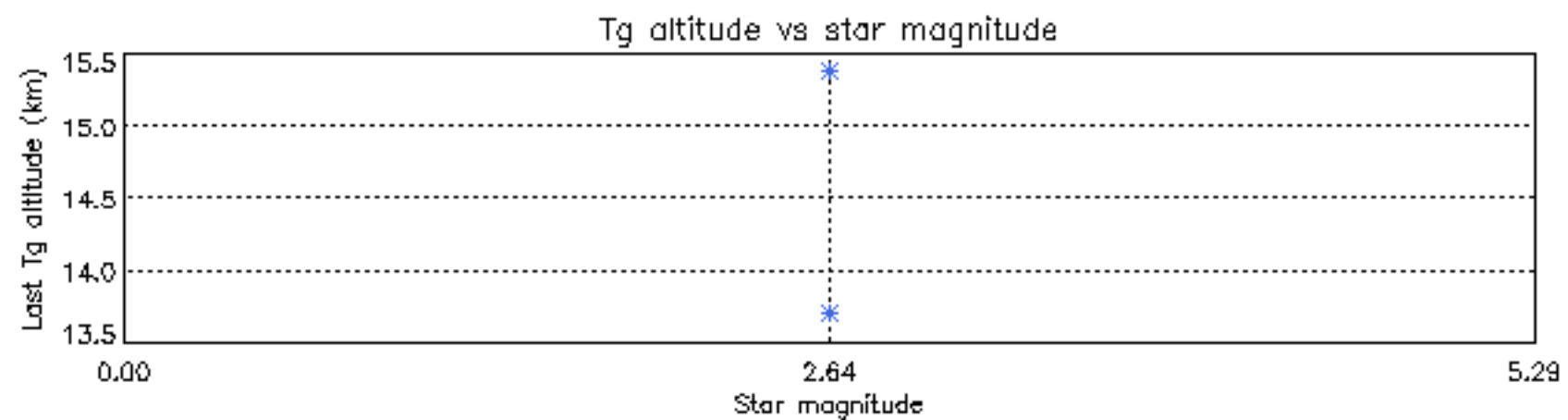
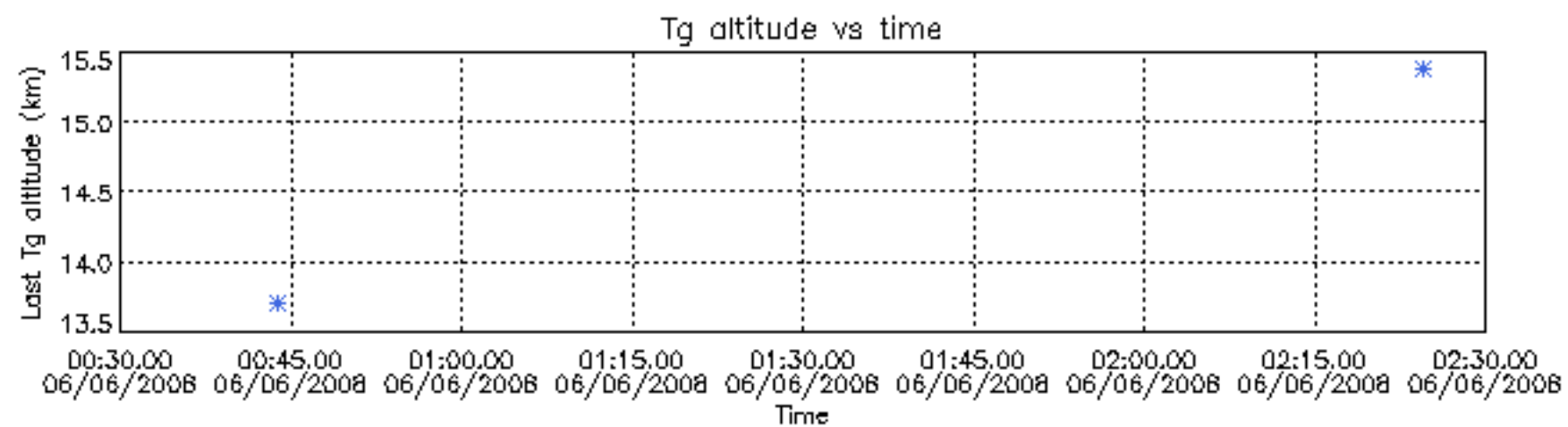
Tangent altitude at which the star is lost

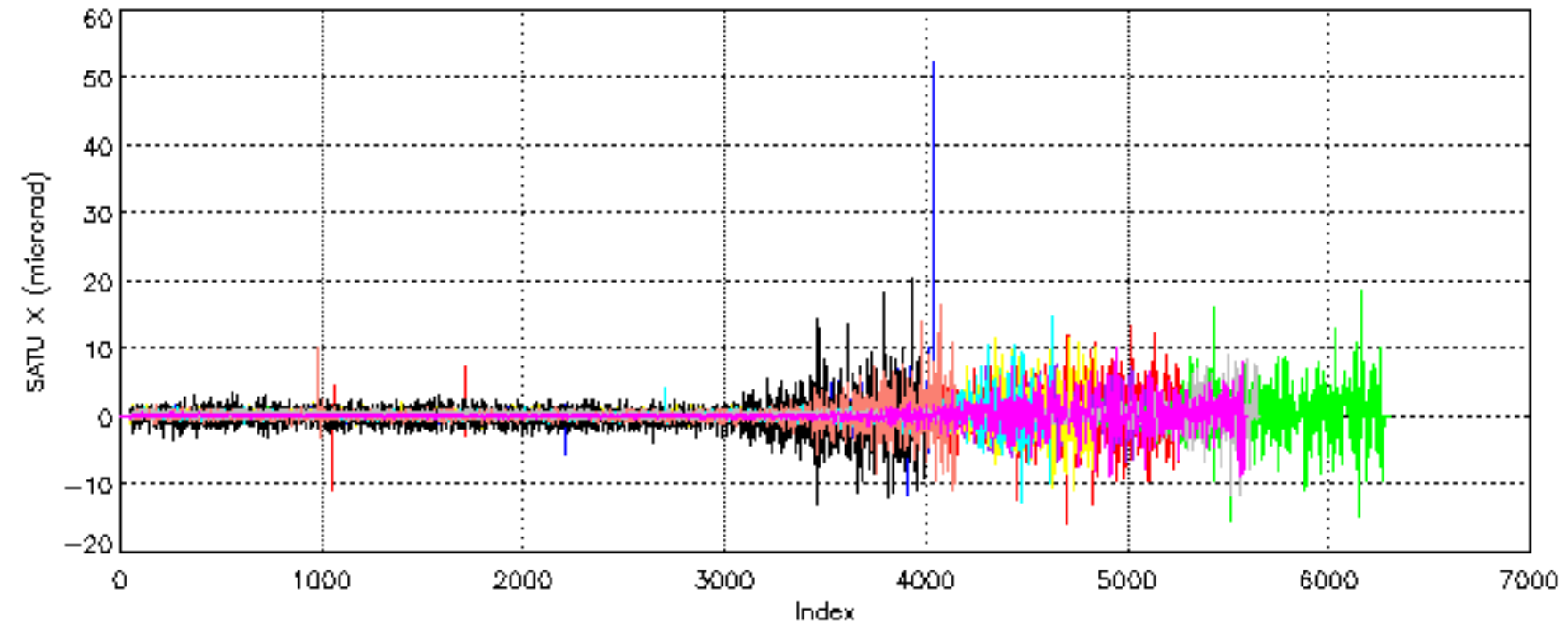


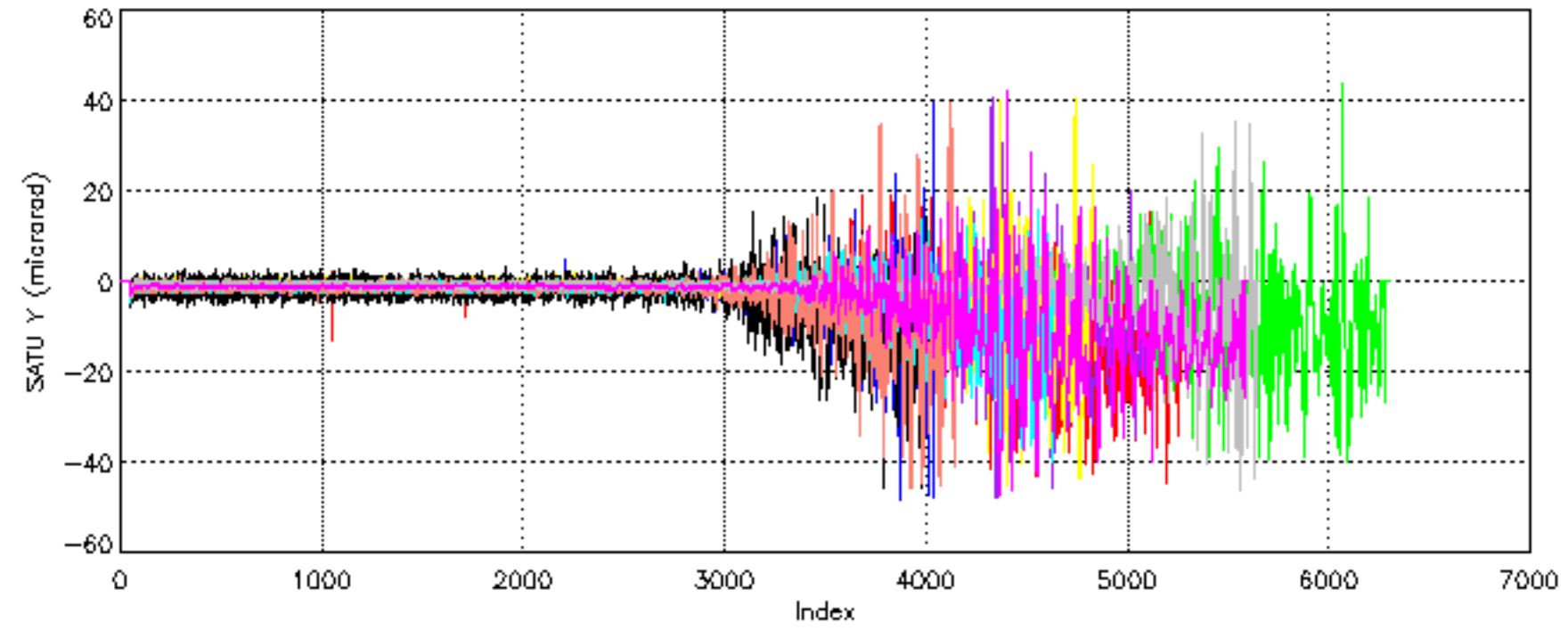
Tangent altitude at which the star is lost

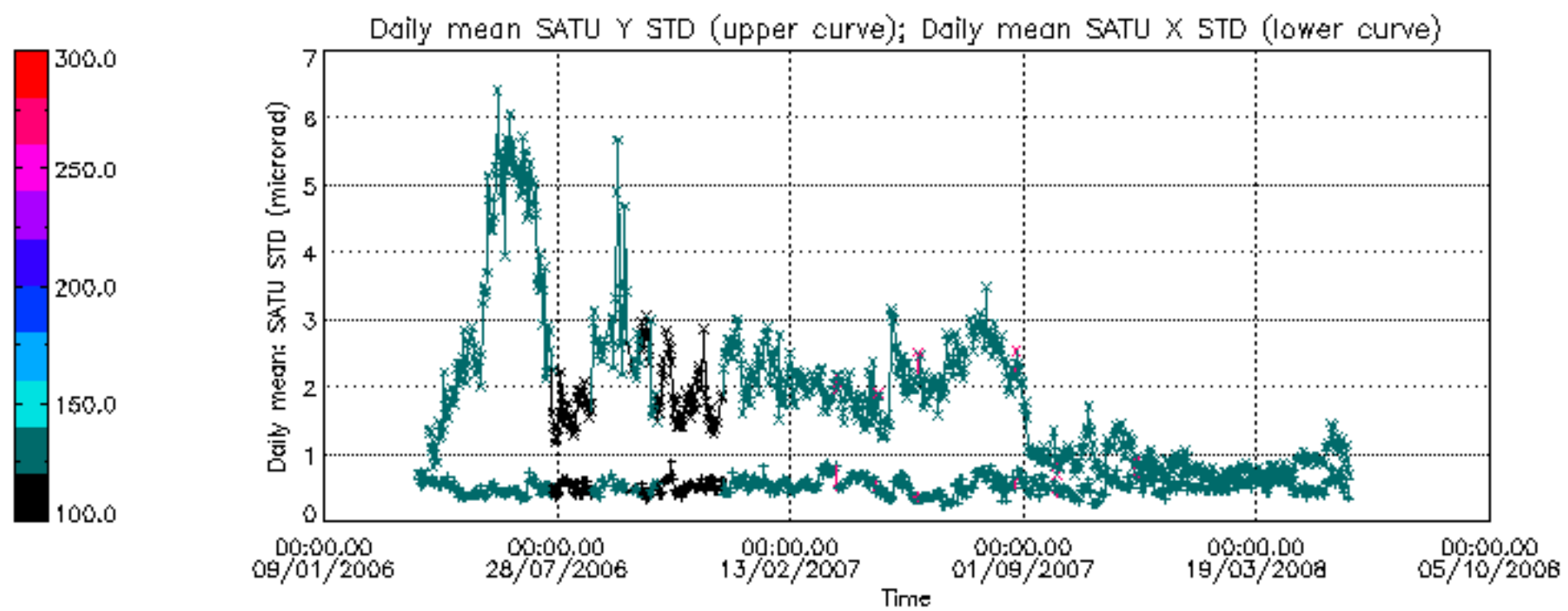


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080601_001042_000056582069_00073_32692_5822.N1

1; -751.2; 01-JUN-2008 00:10:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32692
 2; -641.4; 01-JUN-2008 00:12:31; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;32692
 3; -116.7; 01-JUN-2008 00:21:16; Dark ; 62.0; 18; 24Alp PsA ; 1.17; 9700;occ; 124; 0;32692
 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693
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3; 1269.5; 08-JUN-2008 20:31:27; Dark ; 49.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 99; 0;32805
4; 1603.0; 08-JUN-2008 20:37:00; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;32805

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7; 566.7; 08-JUN-2008 22:00:20; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32806
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11; 1345.0; 08-JUN-2008 22:13:18; Dark ; 58.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 117; 0;32806
12; 1603.1; 08-JUN-2008 22:17:36; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;32806
13; 1709.5; 08-JUN-2008 22:19:23; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32806
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16; 2482.0; 08-JUN-2008 22:32:15; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32806
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18; 3555.9; 08-JUN-2008 22:50:09; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;32806
19; 3914.6; 08-JUN-2008 22:56:08; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;32806
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21; 4404.6; 08-JUN-2008 23:04:18; Dark ; 55.0; 53; 43Bet And ; 2.05; 3300;occ; 110; 0;32806
22; 4600.4; 08-JUN-2008 23:07:34; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;32806
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4; 41.1; 08-JUN-2008 23:32:10; Dark ; 58.0; 18; 24Alp PsA ; 1.17; 9700;occ; 116; 0;32807
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6; 303.3; 08-JUN-2008 23:36:33; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32807
7; 567.3; 08-JUN-2008 23:40:57; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32807
8; 1083.9; 08-JUN-2008 23:49:33; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32807
9; 1189.0; 08-JUN-2008 23:51:18; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32807
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11; 1345.3; 08-JUN-2008 23:53:55; Dark ; 69.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 139; 0;32807
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3; -1632.1; 08-JUN-2008 06:18:18; Dark ; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;32796
4; -1437.5; 08-JUN-2008 06:21:32; Dark ; 44.0; 50; 13Alp Ari ; 2.01; 4250;occ; 88; 0;32796
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8; 26.1; 08-JUN-2008 06:45:56; Dark ; 71.5; 18; 24Alp PsA ; 1.17; 9700;occ; 143; 0;32797
9; 173.8; 08-JUN-2008 06:48:24; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;32797

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13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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6; 423.1; 11-JUN-2008 00:15:54; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32836
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19; 6652.4; 14-JUN-2008 10:28:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32884
20; 6960.0; 14-JUN-2008 10:33:36; Dark ; 39.0; 141; Bet Ara ; 2.84; 4600;occ; 78; 0;32884
21; 7041.6; 14-JUN-2008 10:34:58; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32884
22; 7146.6; 14-JUN-2008 10:36:43; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32884
23; 7249.7; 14-JUN-2008 10:38:26; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32884
24; 7337.9; 14-JUN-2008 10:39:54; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;32884
25; 7504.7; 14-JUN-2008 10:42:41; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32884
26; 7647.8; 14-JUN-2008 10:45:04; Bright; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;32884
27; 7752.5; 14-JUN-2008 10:46:48; Bright; 23.5; 98; 13Zet Oph ; 2.57; 30000;occ; 47; 0;32884

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2; 1842.6; 14-JUN-2008 10:48:54; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32885
3; 2024.7; 14-JUN-2008 10:51:57; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;32885
4; 2278.6; 14-JUN-2008 10:56:10; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;32885
5; 2367.1; 14-JUN-2008 10:57:39; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32885
6; 2462.2; 14-JUN-2008 10:59:14; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32885
7; 2874.4; 14-JUN-2008 11:06:06; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;32885
8; 2963.5; 14-JUN-2008 11:07:35; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32885
9; 3168.8; 14-JUN-2008 11:11:01; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;32885
10; 3446.7; 14-JUN-2008 11:15:39; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32885
11; 3900.2; 14-JUN-2008 11:23:12; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;32885
12; 4061.3; 14-JUN-2008 11:25:53; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;32885
13; 4269.4; 14-JUN-2008 11:29:21; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32885
14; 4403.8; 14-JUN-2008 11:31:36; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;32885
15; 4617.1; 14-JUN-2008 11:35:09; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;32885
16; 4902.6; 14-JUN-2008 11:39:54; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;32885
17; 5609.9; 14-JUN-2008 11:51:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32885
18; 5924.0; 14-JUN-2008 11:56:56; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;32885
19; 6294.2; 14-JUN-2008 12:03:06; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32885
20; 6652.9; 14-JUN-2008 12:09:05; Dark ; 47.5; 45; Alp Pav ; 1.94; 26000;occ; 95; 0;32885
21; 6960.2; 14-JUN-2008 12:14:12; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;32885
22; 7041.9; 14-JUN-2008 12:15:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32885
23; 7146.9; 14-JUN-2008 12:17:19; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32885
24; 7249.8; 14-JUN-2008 12:19:02; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32885
25; 7338.1; 14-JUN-2008 12:20:30; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32885
26; 7504.9; 14-JUN-2008 12:23:17; Bright; 37.0; 156; 20Sig Sco ; 2.90; 28000;occ; 74; 0;32885
27; 7648.0; 14-JUN-2008 12:25:40; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;32885

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3; 1842.7; 14-JUN-2008 12:29:30; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32886
4; 2024.8; 14-JUN-2008 12:32:33; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;32886
5; 2278.4; 14-JUN-2008 12:36:46; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32886
6; 2367.3; 14-JUN-2008 12:38:15; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32886
7; 2462.0; 14-JUN-2008 12:39:50; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;32886
8; 2873.9; 14-JUN-2008 12:46:42; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32886
9; 2963.3; 14-JUN-2008 12:48:11; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32886
10; 3168.8; 14-JUN-2008 12:51:37; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;32886
11; 3446.7; 14-JUN-2008 12:56:14; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;32886
12; 3900.0; 14-JUN-2008 13:03:48; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32886
13; 4061.4; 14-JUN-2008 13:06:29; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;32886
14; 4269.3; 14-JUN-2008 13:09:57; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;32886
15; 4404.1; 14-JUN-2008 13:12:12; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;32886
16; 4617.4; 14-JUN-2008 13:15:45; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;32886

17; 4903.0; 14-JUN-2008 13:20:31; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32886
 18; 5610.3; 14-JUN-2008 13:32:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32886
 19; 5924.8; 14-JUN-2008 13:37:33; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;32886
 20; 6295.2; 14-JUN-2008 13:43:43; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32886
 21; 6653.6; 14-JUN-2008 13:49:41; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32886
 22; 6960.5; 14-JUN-2008 13:54:48; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;32886
 23; 7042.2; 14-JUN-2008 13:56:10; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32886
 24; 7147.3; 14-JUN-2008 13:57:55; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32886
 25; 7250.3; 14-JUN-2008 13:59:38; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32886
 26; 7338.3; 14-JUN-2008 14:01:06; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32886
 27; 7505.0; 14-JUN-2008 14:03:53; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32886

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 2; 1716.7; 14-JUN-2008 14:08:00; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32887
 3; 1842.8; 14-JUN-2008 14:10:06; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32887
 4; 2025.0; 14-JUN-2008 14:13:09; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;32887
 5; 2278.4; 14-JUN-2008 14:17:22; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;32887
 6; 2367.6; 14-JUN-2008 14:18:51; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32887
 7; 2461.8; 14-JUN-2008 14:20:25; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32887
 8; 2873.6; 14-JUN-2008 14:27:17; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32887
 9; 2963.4; 14-JUN-2008 14:28:47; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32887
 10; 3169.0; 14-JUN-2008 14:32:13; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32887
 11; 3446.8; 14-JUN-2008 14:36:50; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;32887
 12; 3899.7; 14-JUN-2008 14:44:23; Bright; 59.0; 76; 27Gam Cas ; 2.30; 30000;occ; 118; 0;32887
 13; 4061.6; 14-JUN-2008 14:47:05; Bright; 52.0; 160; 23Gam Per ; 2.93; 4700;occ; 104; 0;32887
 14; 4269.5; 14-JUN-2008 14:50:33; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32887
 15; 4404.2; 14-JUN-2008 14:52:48; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;32887
 16; 4617.8; 14-JUN-2008 14:56:21; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32887
 17; 4903.4; 14-JUN-2008 15:01:07; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32887
 18; 5610.6; 14-JUN-2008 15:12:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32887
 19; 5925.6; 14-JUN-2008 15:18:09; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;32887
 20; 6296.2; 14-JUN-2008 15:24:20; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32887
 21; 6654.3; 14-JUN-2008 15:30:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32887
 22; 6960.9; 14-JUN-2008 15:35:25; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32887
 23; 7042.5; 14-JUN-2008 15:36:46; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32887
 24; 7147.6; 14-JUN-2008 15:38:31; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32887
 25; 7250.7; 14-JUN-2008 15:40:14; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;32887
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 3; 1612.5; 14-JUN-2008 15:46:52; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32888
 4; 1716.9; 14-JUN-2008 15:48:36; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32888
 5; 1843.0; 14-JUN-2008 15:50:43; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;32888
 6; 2025.1; 14-JUN-2008 15:53:45; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;32888
 7; 2278.3; 14-JUN-2008 15:57:58; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;32888
 8; 2367.5; 14-JUN-2008 15:59:27; Bright; 34.0; 67; 5Alp CrB ; 2.22; 11000;occ; 68; 0;32888
 9; 2461.7; 14-JUN-2008 16:01:01; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32888
 10; 2873.2; 14-JUN-2008 16:07:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32888
 11; 2963.2; 14-JUN-2008 16:09:23; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32888
 12; 3169.1; 14-JUN-2008 16:12:49; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32888
 13; 3446.7; 14-JUN-2008 16:17:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32888
 14; 3899.6; 14-JUN-2008 16:24:59; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32888
 15; 4061.6; 14-JUN-2008 16:27:41; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;32888
 16; 4269.4; 14-JUN-2008 16:31:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32888
 17; 4404.2; 14-JUN-2008 16:33:24; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;32888
 18; 4618.0; 14-JUN-2008 16:36:58; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;32888
 19; 4903.6; 14-JUN-2008 16:41:43; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32888
 20; 5611.0; 14-JUN-2008 16:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32888
 21; 5926.4; 14-JUN-2008 16:58:46; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;32888
 22; 6297.3; 14-JUN-2008 17:04:57; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;32888
 23; 6655.0; 14-JUN-2008 17:10:55; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32888
 24; 6961.2; 14-JUN-2008 17:16:01; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;32888
 25; 7043.0; 14-JUN-2008 17:17:23; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32888
 26; 7147.9; 14-JUN-2008 17:19:08; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32888

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 2; 1112.6; 14-JUN-2008 20:40:20; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;32891


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4; 1303.1; 14-JUN-2008 20:43:31; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;32891
5; 1469.9; 14-JUN-2008 20:46:17; Bright; 37.0; 156; 20Sig Sco ; 2.90; 28000;occ; 74; 0;32891
6; 1612.7; 14-JUN-2008 20:48:40; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32891
7; 1717.0; 14-JUN-2008 20:50:25; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32891
8; 1843.2; 14-JUN-2008 20:52:31; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32891
9; 2025.4; 14-JUN-2008 20:55:33; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;32891
10; 2277.9; 14-JUN-2008 20:59:45; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;32891
11; 2367.7; 14-JUN-2008 21:01:15; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32891
12; 2461.1; 14-JUN-2008 21:02:49; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32891
13; 2872.0; 14-JUN-2008 21:09:40; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32891
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16; 3446.6; 14-JUN-2008 21:19:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32891
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19; 4269.5; 14-JUN-2008 21:32:57; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32891
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22; 4904.1; 14-JUN-2008 21:43:32; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32891
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3; 264.1; 14-JUN-2008 22:06:48; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32892
4; 620.7; 14-JUN-2008 22:12:44; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32892
5; 925.9; 14-JUN-2008 22:17:49; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;32892
6; 1007.6; 14-JUN-2008 22:19:11; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32892
7; 1112.8; 14-JUN-2008 22:20:56; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32892
8; 1215.7; 14-JUN-2008 22:22:39; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;32892
9; 1303.4; 14-JUN-2008 22:24:07; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;32892
10; 1470.0; 14-JUN-2008 22:26:53; Bright; 35.0; 156; 20Sig Sco ; 2.90; 28000;occ; 70; 0;32892
11; 1612.9; 14-JUN-2008 22:29:16; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32892
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13; 1843.3; 14-JUN-2008 22:33:07; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32892
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15; 2277.8; 14-JUN-2008 22:40:21; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32892
16; 2367.9; 14-JUN-2008 22:41:51; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32892
17; 2460.8; 14-JUN-2008 22:43:24; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32892
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21;	4907.4;	15-JUN-2008	19:31:22;	Dark	;	44.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	88;	0;	32904
22;	5616.5;	15-JUN-2008	19:43:11;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32904
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26;	6965.5;	15-JUN-2008	20:05:40;	Dark	;	44.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	89;	0;	32904
27;	7047.6;	15-JUN-2008	20:07:02;	Dark	;	20.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	40;	0;	32904
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4;	630.5;	16-JUN-2008	01:02:29;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	32908
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 4; 631.0; 16-JUN-2008 02:43:05; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32909
 5; 930.6; 16-JUN-2008 02:48:05; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;32909
 6; 1012.7; 16-JUN-2008 02:49:27; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32909
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 9; 1307.1; 16-JUN-2008 02:54:21; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32909
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 13; 1845.0; 16-JUN-2008 03:03:19; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32909
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6; 1474.8; 16-JUN-2008 19:43:08; Bright; 37.0; 156; 20Sig Sco ; 2.90; 28000;occ; 74; 0;32919
7; 1615.9; 16-JUN-2008 19:45:30; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32919
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 22; 7061.9; 19-JUN-2008 09:37:49; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32955
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 19; 4065.2; 23-JUN-2008 01:39:36; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33008
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5; 2274.8; 23-JUN-2008 11:13:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33014
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9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
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13; 4270.8; 23-JUN-2008 11:46:37; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;33014
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16; 4938.9; 23-JUN-2008 11:57:46; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33014
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21; 7183.5; 23-JUN-2008 12:35:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33014
22; 7284.4; 23-JUN-2008 12:36:51; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33014
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8; 2952.6; 23-JUN-2008 13:05:15; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33015
9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
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11; 3867.9; 23-JUN-2008 13:20:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;33015
12; 4065.4; 23-JUN-2008 13:23:48; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;33015
13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
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16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
17; 5422.6; 23-JUN-2008 13:46:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33015
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21; 7183.9; 23-JUN-2008 14:15:47; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33015
22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015
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7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
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8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017
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 3; 407.2; 25-JUN-2008 01:16:00; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;33037
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8; 1410.3; 25-JUN-2008 01:32:43; Bright; 43.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 87; 0;33037
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16; 3181.3; 25-JUN-2008 02:02:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33037
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15; 2129.0; 25-JUN-2008 05:05:54; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33039
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19; 2951.8; 25-JUN-2008 05:19:37; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33039
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7; -0.3; 25-JUN-2008 06:11:01; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33039
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9; 705.6; 25-JUN-2008 06:22:47; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33040
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 15; 2128.9; 25-JUN-2008 06:46:30; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33040
 16; 2276.1; 25-JUN-2008 06:48:57; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33040
 17; 2446.2; 25-JUN-2008 06:51:47; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33040
 18; 2824.7; 25-JUN-2008 06:58:06; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;33040
 19; 2951.8; 25-JUN-2008 07:00:13; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33040
 20; 3181.7; 25-JUN-2008 07:04:03; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33040
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21; 7454.1; 27-JUN-2008 10:33:13; Bright; 44.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 88; 0;33070
22; 7672.0; 27-JUN-2008 10:36:51; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33070

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4; 2278.6; 27-JUN-2008 12:28:09; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33072
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9; 3890.1; 27-JUN-2008 12:55:01; Bright; 52.5; 110; 37Del Cas ; 2.68; 8900;occ; 105; 0;33072
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7; 2951.6; 27-JUN-2008 14:19:58; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33073
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3; 1983.8; 27-JUN-2008 15:44:26; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33074
4; 2125.2; 27-JUN-2008 15:46:47; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33074
5; 2278.9; 27-JUN-2008 15:49:21; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33074
6; 2446.4; 27-JUN-2008 15:52:09; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33074
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5; 1983.9; 27-JUN-2008 17:25:02; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33075
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8; 2446.4; 27-JUN-2008 17:32:45; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;33075
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13; 4064.6; 27-JUN-2008 17:59:43; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;33075
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9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
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 2; 1268.3; 29-JUN-2008 17:50:28; Dark ; 38.5; 25; 35Lam Sco ; 1.62; 28000;occ; 77; 0;33104
 3; 1352.7; 29-JUN-2008 17:51:53; Dark ; 54.5; 116; 19Del Sgr ; 2.70; 4100;occ; 109; 0;33104
 4; 1425.3; 29-JUN-2008 17:53:05; Bright; 40.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 80; 0;33104
 5; 1640.9; 29-JUN-2008 17:56:41; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33104
 6; 1746.0; 29-JUN-2008 17:58:26; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33104
 7; 1982.6; 29-JUN-2008 18:02:23; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33104
 8; 2122.9; 29-JUN-2008 18:04:43; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33104
 9; 2282.1; 29-JUN-2008 18:07:22; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33104
 10; 2447.4; 29-JUN-2008 18:10:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33104
 11; 2811.4; 29-JUN-2008 18:16:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33104
 12; 2952.1; 29-JUN-2008 18:18:32; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33104
 13; 3189.7; 29-JUN-2008 18:22:30; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33104
 14; 3445.6; 29-JUN-2008 18:26:46; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33104
 15; 4063.6; 29-JUN-2008 18:37:04; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33104
 16; 4165.1; 29-JUN-2008 18:38:45; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;33104
 17; 4294.2; 29-JUN-2008 18:40:54; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;33104
 18; 4972.1; 29-JUN-2008 18:52:12; Dark ; 51.0; 94; 92Alp Cet ; 2.53; 3100;occ; 102; 0;33104
 19; 5197.7; 29-JUN-2008 18:55:58; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33104
 20; 5708.4; 29-JUN-2008 19:04:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33104
 21; 6065.8; 29-JUN-2008 19:10:26; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;33104
 22; 6349.2; 29-JUN-2008 19:15:09; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33104
 23; 6512.1; 29-JUN-2008 19:17:52; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33104
 24; 6775.3; 29-JUN-2008 19:22:15; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;33104
 25; 7013.8; 29-JUN-2008 19:26:14; Dark ; 21.5; 141; Bet Ara ; 2.84; 4600;occ; 43; 0;33104

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 2; 1060.6; 29-JUN-2008 19:27:37; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33105
 3; 1168.5; 29-JUN-2008 19:29:25; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33105
 4; 1268.5; 29-JUN-2008 19:31:05; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;33105
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 6; 1425.4; 29-JUN-2008 19:33:42; Bright; 42.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 85; 0;33105
 7; 1641.0; 29-JUN-2008 19:37:17; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33105
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 9; 1982.6; 29-JUN-2008 19:42:59; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33105
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 11; 2282.2; 29-JUN-2008 19:47:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33105
 12; 2447.3; 29-JUN-2008 19:50:43; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33105
 13; 2811.2; 29-JUN-2008 19:56:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33105
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 15; 3189.9; 29-JUN-2008 20:03:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33105
 16; 3445.7; 29-JUN-2008 20:07:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33105
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 18; 4165.4; 29-JUN-2008 20:19:22; Bright; 53.0; 175; 39Del Per ; 3.01; 19400;occ; 106; 0;33105
 19; 4294.2; 29-JUN-2008 20:21:30; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;33105
 20; 4972.4; 29-JUN-2008 20:32:49; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;33105
 21; 5197.8; 29-JUN-2008 20:36:34; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33105
 22; 5708.9; 29-JUN-2008 20:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33105
 23; 6066.2; 29-JUN-2008 20:51:02; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;33105
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 25; 6512.4; 29-JUN-2008 20:58:29; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33105
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