

# GOMOS Daily Report 27-JUL-2009

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	31JUL2009 04:52:12
Data source version	GOMOS/5.00
Start time of products	27JUL2009 00:00:09
Stop time of products	27JUL2009 23:54:23
Store outputs in DB	Yes
Nb of level 1b prods	98
Nb of prods with errors	1

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

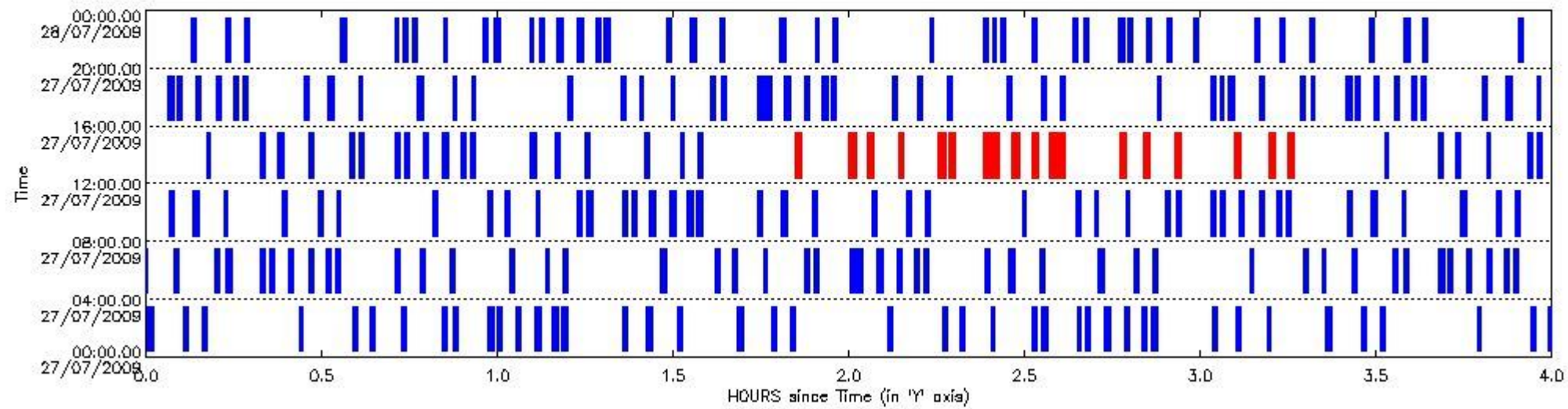
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
27-JUL-2009 13:50:48	53AlpAql	11	38727
27-JUL-2009 13:59:59	53EpsCyg	92	38727
27-JUL-2009 14:03:02	50AlpCyg	19	38727
27-JUL-2009 14:08:22	5AlpCep	89	38727
27-JUL-2009 14:15:12	11BetCas	74	38727
27-JUL-2009 14:17:01	27GamCas	76	38727
27-JUL-2009 14:23:02	23GamPer	160	38727
27-JUL-2009 14:24:36	33AlpPer	35	38727
27-JUL-2009 14:27:46	26BetPer	79	38727
27-JUL-2009 14:31:14	44ZetPer	150	38727
27-JUL-2009 14:34:13	25EtaTau	146	38727
27-JUL-2009 14:35:49	87AlpTau	13	38727
27-JUL-2009 14:46:14	34GamEri	165	38727
27-JUL-2009 14:50:22	DSA1064	0	38727
27-JUL-2009 14:55:36	The1Eri	157	38727

27-JUL-2009 15:05:42	AlpPhe	84	38728
27-JUL-2009 15:11:43	AlpGru	31	38728
27-JUL-2009 15:14:54	GamGru	172	38728

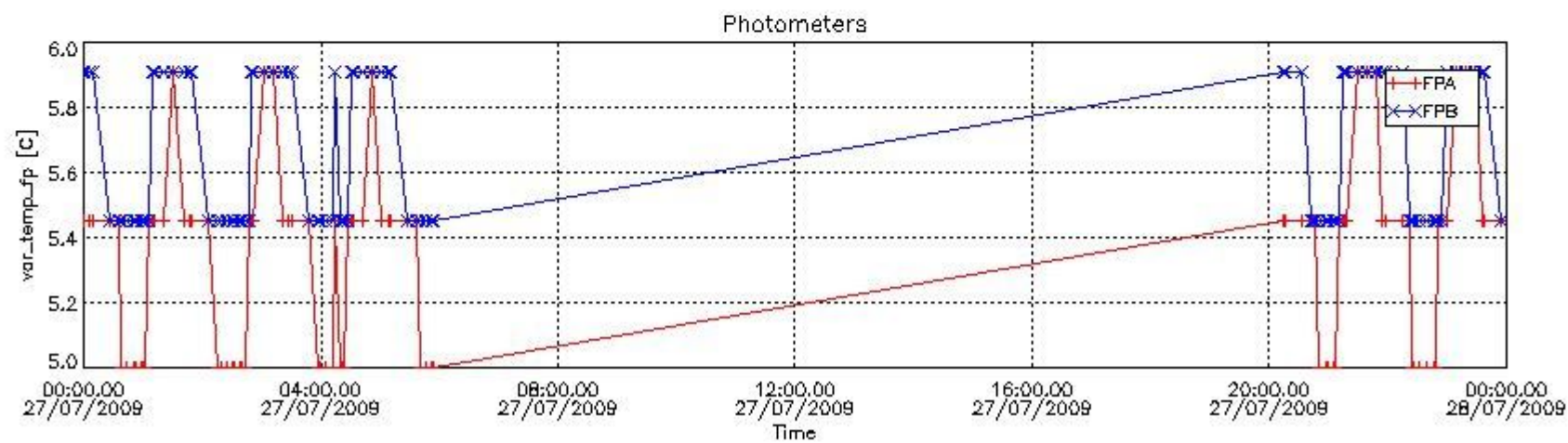
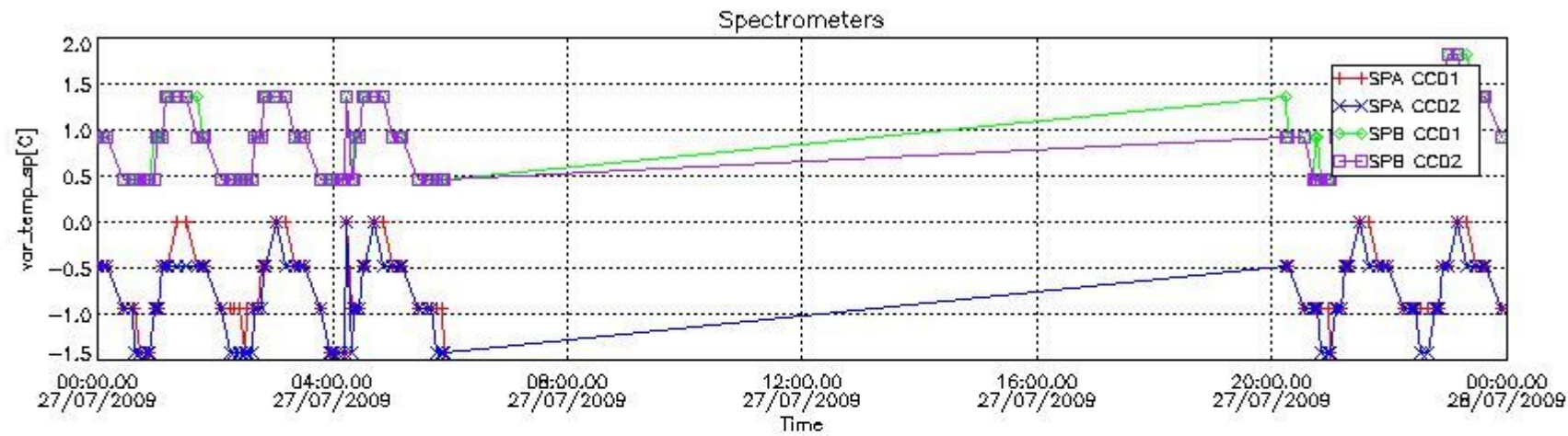
## 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090727_000009_00000582081_00088_38719_6138.N1	27-JUL-2009 00:00:09	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	38719	No
2	GOM_TRA_1PNPDE20090727_000615_00000452081_00088_38719_6139.N1	27-JUL-2009 00:06:15	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38719	No
3	GOM_TRA_1PNPDE20090727_000926_00000472081_00088_38719_6140.N1	27-JUL-2009 00:09:26	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38719	No
4	GOM_TRA_1PNPDE20090727_002602_00000392081_00088_38719_6141.N1	27-JUL-2009 00:26:02	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	38719	No
5	GOM_TRA_1PNPDE20090727_003518_00000482081_00088_38719_6142.N1	27-JUL-2009 00:35:18	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	38719	No
6	GOM_TRA_1PNPDE20090727_003819_00000442081_00088_38719_6143.N1	27-JUL-2009 00:38:19	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	38719	No
7	GOM_TRA_1PNPDE20090727_004339_00000432081_00088_38719_6144.N1	27-JUL-2009 00:43:39	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38719	No
8	GOM_TRA_1PNPDE20090727_005031_00000522081_00088_38719_6145.N1	27-JUL-2009 00:50:31	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	38719	No
9	GOM_TRA_1PNPDE20090727_005220_00000502081_00088_38719_6146.N1	27-JUL-2009 00:52:20	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	38719	No
10	GOM_TRA_1PNPDE20090727_005818_00000602081_00088_38719_6147.N1	27-JUL-2009 00:58:18	Bright	60.000	160	23Gam Per	2.9300	4700.0	120	38719	No
11	GOM_TRA_1PNPDE20090727_005951_00000462081_00088_38719_6148.N1	27-JUL-2009 00:59:51	Bright	45.500	35	33Alp Per	1.7950	6250.0	91	38719	No
12	GOM_TRA_1PNPDE20090727_010301_00000542081_00088_38719_6149.N1	27-JUL-2009 01:03:01	Bright	54.000	79	26Bet Per	2.3100	13100.	108	38719	No
13	GOM_TRA_1PNPDE20090727_010626_00000502081_00088_38719_6150.N1	27-JUL-2009 01:06:26	Tw_i_and_stray	50.000	150	44Zet Per	2.8900	28000.	100	38719	No
14	GOM_TRA_1PNPDE20090727_010923_00000522081_00088_38719_6151.N1	27-JUL-2009 01:09:23	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38719	No
15	GOM_TRA_1PNPDE20090727_011059_00000542081_00088_38719_6152.N1	27-JUL-2009 01:10:59	Dark	54.000	13	87Alp Tau	0.86700	3800.0	108	38719	No
16	GOM_TRA_1PNPDE20090727_012121_00000522081_00088_38719_6291.N1	27-JUL-2009 01:21:21	Dark	51.500	165	34Gam Eri	2.9500	3200.0	103	38719	No
17	GOM_TRA_1PNPDE20090727_013042_00000442081_00088_38719_6292.N1	27-JUL-2009 01:30:42	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38719	No
18	GOM_TRA_1PNPDE20090727_014046_00000652081_00089_38720_6293.N1	27-JUL-2009 01:40:46	Straylight	64.500	84	Alp Phe	2.3970	4500.0	129	38720	No
19	GOM_TRA_1PNPDE20090727_014651_00000452081_00089_38720_6294.N1	27-JUL-2009 01:46:51	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38720	No
20	GOM_TRA_1PNPDE20090727_015003_00000482081_00089_38720_6295.N1	27-JUL-2009 01:50:03	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38720	No
21	GOM_TRA_1PNPDE20090727_020638_00000402081_00089_38720_6296.N1	27-JUL-2009 02:06:38	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38720	No
22	GOM_TRA_1PNPDE20090727_021553_00000482081_00089_38720_6297.N1	27-JUL-2009 02:15:53	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	38720	No
23	GOM_TRA_1PNPDE20090727_021855_00000452081_00089_38720_6298.N1	27-JUL-2009 02:18:55	Bright	44.500	19	50Alp Cyg	1.2460	10500.	89	38720	No
24	GOM_TRA_1PNPDE20090727_022414_00000412081_00089_38720_6299.N1	27-JUL-2009 02:24:14	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38720	No
25	GOM_TRA_1PNPDE20090727_023107_00000502081_00089_38720_6300.N1	27-JUL-2009 02:31:07	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38720	No
26	GOM_TRA_1PNPDE20090727_023255_00000582081_00089_38720_6301.N1	27-JUL-2009 02:32:55	Bright	58.000	76	27Gam Cas	2.3000	30000.	116	38720	No
27	GOM_TRA_1PNPDE20090727_023853_00000452081_00089_38720_6438.N1	27-JUL-2009 02:38:53	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38720	No
28	GOM_TRA_1PNPDE20090727_024027_00000472081_00089_38720_6439.N1	27-JUL-2009 02:40:27	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38720	No
29	GOM_TRA_1PNPDE20090727_024336_00000572081_00089_38720_6440.N1	27-JUL-2009 02:43:36	Bright	56.500	79	26Bet Per	2.3100	13100.	113	38720	No
30	GOM_TRA_1PNPDE20090727_024702_00000532081_00089_38720_6441.N1	27-JUL-2009 02:47:02	Tw_i_and_stray	53.000	150	44Zet Per	2.8900	28000.	106	38720	No
31	GOM_TRA_1PNPDE20090727_025000_00000522081_00089_38720_6442.N1	27-JUL-2009 02:50:00	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38720	No
32	GOM_TRA_1PNPDE20090727_025135_00000602081_00089_38720_6443.N1	27-JUL-2009 02:51:35	Dark	60.000	13	87Alp Tau	0.86700	3800.0	120	38720	No
33	GOM_TRA_1PNPDE20090727_030157_00000532081_00089_38720_6444.N1	27-JUL-2009 03:01:57	Dark	52.500	165	34Gam Eri	2.9500	3200.0	105	38720	No
34	GOM_TRA_1PNPDE20090727_031119_00000442081_00089_38720_6445.N1	27-JUL-2009 03:11:19	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38720	No
35	GOM_TRA_1PNPDE20090727_032123_00000602081_00090_38721_6446.N1	27-JUL-2009 03:21:23	Straylight	59.500	84	Alp Phe	2.3970	4500.0	119	38721	No
36	GOM_TRA_1PNPDE20090727_032728_00000462081_00090_38721_6447.N1	27-JUL-2009 03:27:28	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	38721	No
37	GOM_TRA_1PNPDE20090727_033039_00000482081_00090_38721_6448.N1	27-JUL-2009 03:30:39	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38721	No
38	GOM_TRA_1PNPDE20090727_034714_00000422081_00090_38721_6449.N1	27-JUL-2009 03:47:14	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	38721	No
39	GOM_TRA_1PNPDE20090727_035628_00000482081_00090_38721_6450.N1	27-JUL-2009 03:56:28	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	38721	No
40	GOM_TRA_1PNPDE20090727_035930_00000442081_00090_38721_6451.N1	27-JUL-2009 03:59:30	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	38721	No
41	GOM_TRA_1PNPDE20090727_040450_00000402081_00090_38721_6452.N1	27-JUL-2009 04:04:50	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38721	No
42	GOM_TRA_1PNPDE20090727_041142_00000502081_00090_38721_6453.N1	27-JUL-2009 04:11:42	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38721	No
43	GOM_TRA_1PNPDE20090727_041330_00000712081_00090_38721_6594.N1	27-JUL-2009 04:13:30	Bright	71.000	76	27Gam Cas	2.3000	30000.	142	38721	Yes
44	GOM_TRA_1PNPDE20090727_041929_00000452081_00090_38721_6595.N1	27-JUL-2009 04:19:29	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38721	No
45	GOM_TRA_1PNPDE20090727_042103_00000482081_00090_38721_6596.N1	27-JUL-2009 04:21:03	Bright	48.000	35	33Alp Per	1.7950	6250.0	96	38721	No
46	GOM_TRA_1PNPDE20090727_042412_00000552081_00090_38721_6597.N1	27-JUL-2009 04:24:12	Bright	54.500	79	26Bet Per	2.3100	13100.	109	38721	No
47	GOM_TRA_1PNPDE20090727_042738_00000502081_00090_38721_6598.N1	27-JUL-2009 04:27:38	Tw_i_and_stray	50.000	150	44Zet Per	2.8900	28000.	100	38721	No
48	GOM_TRA_1PNPDE20090727_043036_00000522081_00090_38721_6599.N1	27-JUL-2009 04:30:36	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38721	No
49	GOM_TRA_1PNPDE20090727_043211_00000602081_00090_38721_6600.N1	27-JUL-2009 04:32:11	Dark	60.000	13	87Alp Tau	0.86700	3800.0	120	38721	No
50	GOM_TRA_1PNPDE20090727_044234_00000502081_00090_38721_6601.N1	27-JUL-2009 04:42:34	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	38721	No
51	GOM_TRA_1PNPDE20090727_045155_00000452081_00090_38721_6602.N1	27-JUL-2009 04:51:55	Dark	44.500	157	The1Eri	2.9060	9300.0	89	38721	No

52	GOM_TRA_1PNPDE20090727_050200_00000572081_00091_38722_6603.N1	27-JUL-2009 05:02:00	Straylight	56.500	84	Alp Phe	2.3970	4500.0	113	38722	No
53	GOM_TRA_1PNPDE20090727_050804_00000472081_00091_38722_6604.N1	27-JUL-2009 05:08:04	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38722	No
54	GOM_TRA_1PNPDE20090727_051116_00000472081_00091_38722_6605.N1	27-JUL-2009 05:11:16	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38722	No
55	GOM_TRA_1PNPDE20090727_052749_00000572081_00091_38722_6606.N1	27-JUL-2009 05:27:49	Bright	57.000	11	53Alp Aql	0.76500	8000.0	114	38722	No
56	GOM_TRA_1PNPDE20090727_053704_00000472081_00091_38722_6607.N1	27-JUL-2009 05:37:04	Bright	47.000	92	53Eps Cyg	2.5000	4500.0	94	38722	No
57	GOM_TRA_1PNPDE20090727_054005_00000442081_00091_38722_6608.N1	27-JUL-2009 05:40:05	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38722	No
58	GOM_TRA_1PNPDE20090727_054525_00000412081_00091_38722_6609.N1	27-JUL-2009 05:45:25	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38722	No
59	GOM_TRA_1PNPDE20090727_055217_00000502081_00091_38722_6610.N1	27-JUL-2009 05:52:17	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38722	No
60	GOM_TRA_1PNPDE20090727_055406_00000442081_00091_38722_6611.N1	27-JUL-2009 05:54:06	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	38722	No
61	GOM_TRA_1PNPDE20090727_201333_00000512081_00100_38731_7298.N1	27-JUL-2009 20:13:33	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38731	No
62	GOM_TRA_1PNPDE20090727_201644_00000452081_00100_38731_7299.N1	27-JUL-2009 20:16:44	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	38731	No
63	GOM_TRA_1PNPDE20090727_203312_00000572081_00100_38731_7300.N1	27-JUL-2009 20:33:12	Bright	57.000	11	53Alp Aql	0.76500	8000.0	114	38731	No
64	GOM_TRA_1PNPDE20090727_204221_00000462081_00100_38731_7301.N1	27-JUL-2009 20:42:21	Bright	45.500	92	53Eps Cyg	2.5000	4500.0	91	38731	No
65	GOM_TRA_1PNPDE20090727_204356_00000362081_00100_38731_7302.N1	27-JUL-2009 20:43:56	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	38731	No
66	GOM_TRA_1PNPDE20090727_204524_00000442081_00100_38731_7303.N1	27-JUL-2009 20:45:24	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38731	No
67	GOM_TRA_1PNPDE20090727_205044_00000382081_00100_38731_7304.N1	27-JUL-2009 20:50:44	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	38731	No
68	GOM_TRA_1PNPDE20090727_205733_00000502081_00100_38731_7305.N1	27-JUL-2009 20:57:33	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38731	No
69	GOM_TRA_1PNPDE20090727_205923_00000562081_00100_38731_7306.N1	27-JUL-2009 20:59:23	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	38731	No
70	GOM_TRA_1PNPDE20090727_210525_00000452081_00100_38731_7307.N1	27-JUL-2009 21:05:25	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38731	No
71	GOM_TRA_1PNPDE20090727_210700_00000632081_00100_38731_7308.N1	27-JUL-2009 21:07:00	Bright	62.500	35	33Alp Per	1.7950	6250.0	125	38731	No
72	GOM_TRA_1PNPDE20090727_211010_00000552081_00100_38731_7309.N1	27-JUL-2009 21:10:10	Bright	54.500	79	26Bet Per	2.3100	13100.	109	38731	No
73	GOM_TRA_1PNPDE20090727_211339_00000522081_00100_38731_7310.N1	27-JUL-2009 21:13:39	Tw_i_and_stray	52.000	150	44Zet Per	2.8900	28000.	104	38731	No
74	GOM_TRA_1PNPDE20090727_211639_00000562081_00100_38731_7311.N1	27-JUL-2009 21:16:39	Dark	55.500	146	25Eta Tau	2.8730	15200.	111	38731	No
75	GOM_TRA_1PNPDE20090727_211814_00000592081_00100_38731_7312.N1	27-JUL-2009 21:18:14	Dark	58.500	13	87Alp Tau	0.86700	3800.0	117	38731	No
76	GOM_TRA_1PNPDE20090727_212842_00000522081_00100_38731_7454.N1	27-JUL-2009 21:28:42	Dark	51.500	165	34Gam Eri	2.9500	3200.0	103	38731	No
77	GOM_TRA_1PNPDE20090727_213803_00000452081_00100_38731_7455.N1	27-JUL-2009 21:38:03	Dark	45.000	157	The1Eri	2.9060	9300.0	90	38731	No
78	GOM_TRA_1PNPDE20090727_214811_00000562081_00101_38732_7456.N1	27-JUL-2009 21:48:11	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	38732	No
79	GOM_TRA_1PNPDE20090727_215410_00000452081_00101_38732_7457.N1	27-JUL-2009 21:54:10	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38732	No
80	GOM_TRA_1PNPDE20090727_215720_00000472081_00101_38732_7458.N1	27-JUL-2009 21:57:20	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38732	No
81	GOM_TRA_1PNPDE20090727_221347_00000382081_00101_38732_7459.N1	27-JUL-2009 22:13:47	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	38732	No
82	GOM_TRA_1PNPDE20090727_222257_00000452081_00101_38732_7460.N1	27-JUL-2009 22:22:57	Bright	45.000	92	53Eps Cyg	2.5000	4500.0	90	38732	No
83	GOM_TRA_1PNPDE20090727_222432_00000392081_00101_38732_7461.N1	27-JUL-2009 22:24:32	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	38732	No
84	GOM_TRA_1PNPDE20090727_222559_00000442081_00101_38732_7462.N1	27-JUL-2009 22:25:59	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38732	No
85	GOM_TRA_1PNPDE20090727_223120_00000432081_00101_38732_7463.N1	27-JUL-2009 22:31:20	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38732	No
86	GOM_TRA_1PNPDE20090727_223809_00000482081_00101_38732_7464.N1	27-JUL-2009 22:38:09	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	38732	No
87	GOM_TRA_1PNPDE20090727_223958_00000502081_00101_38732_7465.N1	27-JUL-2009 22:39:58	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38732	No
88	GOM_TRA_1PNPDE20090727_224601_00000622081_00101_38732_7466.N1	27-JUL-2009 22:46:01	Bright	62.000	160	23Gam Per	2.9300	4700.0	124	38732	No
89	GOM_TRA_1PNPDE20090727_224735_00000472081_00101_38732_7467.N1	27-JUL-2009 22:47:35	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38732	No
90	GOM_TRA_1PNPDE20090727_225046_00000582081_00101_38732_7468.N1	27-JUL-2009 22:50:46	Bright	58.000	79	26Bet Per	2.3100	13100.	116	38732	No
91	GOM_TRA_1PNPDE20090727_225415_00000492081_00101_38732_7469.N1	27-JUL-2009 22:54:15	Tw_i_and_stray	49.000	150	44Zet Per	2.8900	28000.	98	38732	No
92	GOM_TRA_1PNPDE20090727_225850_00000512081_00101_38732_7470.N1	27-JUL-2009 22:58:50	Dark	51.000	13	87Alp Tau	0.86700	3800.0	102	38732	No
93	GOM_TRA_1PNPDE20090727_230918_00000472081_00101_38732_7599.N1	27-JUL-2009 23:09:18	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	38732	No
94	GOM_TRA_1PNPDE20090727_231840_00000462081_00101_38732_7600.N1	27-JUL-2009 23:18:40	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38732	No
95	GOM_TRA_1PNPDE20090727_232848_00000562081_00102_38733_7601.N1	27-JUL-2009 23:28:48	Straylight	56.000	84	Alp Phe	2.3970	4500.0	112	38733	No
96	GOM_TRA_1PNPDE20090727_233446_00000552081_00102_38733_7602.N1	27-JUL-2009 23:34:46	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38733	No
97	GOM_TRA_1PNPDE20090727_233757_00000472081_00102_38733_7603.N1	27-JUL-2009 23:37:57	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38733	No
98	GOM_TRA_1PNPDE20090727_235423_00000422081_00102_38733_7604.N1	27-JUL-2009 23:54:23	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	38733	No

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





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

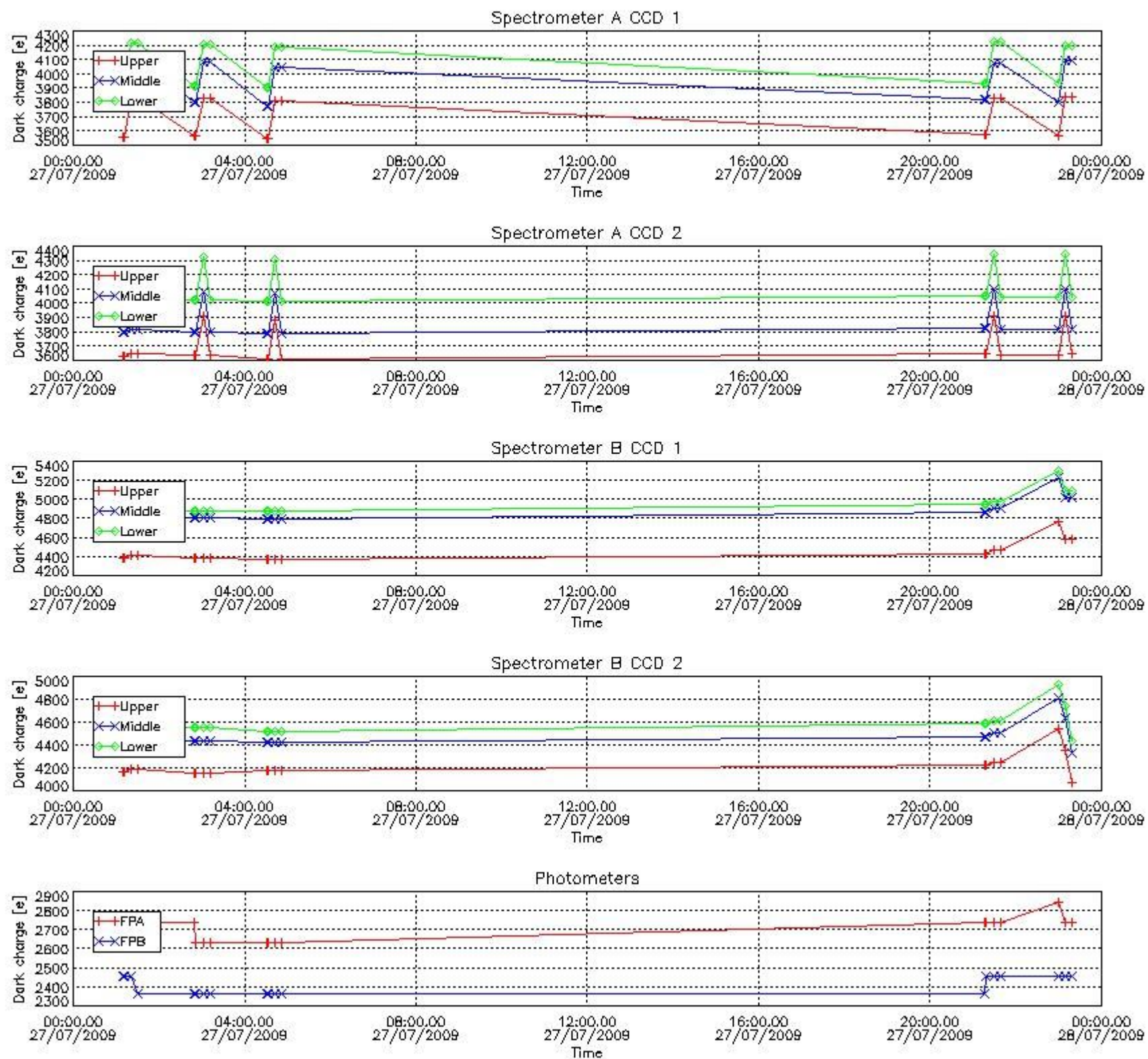
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090727_201333_000000512081_00100_38731_7298.N1	DC map used
GOM_TRA_1PNPDE20090727_201644_000000452081_00100_38731_7299.N1	DC map used
GOM_TRA_1PNPDE20090727_203312_000000572081_00100_38731_7300.N1	DC map used
GOM_TRA_1PNPDE20090727_204221_000000462081_00100_38731_7301.N1	DC map used
GOM_TRA_1PNPDE20090727_204356_000000362081_00100_38731_7302.N1	DC map used
GOM_TRA_1PNPDE20090727_204524_000000442081_00100_38731_7303.N1	DC map used
GOM_TRA_1PNPDE20090727_205044_000000382081_00100_38731_7304.N1	DC map used
GOM_TRA_1PNPDE20090727_205733_000000502081_00100_38731_7305.N1	DC map used
GOM_TRA_1PNPDE20090727_205923_000000562081_00100_38731_7306.N1	DC map used
GOM_TRA_1PNPDE20090727_210525_000000452081_00100_38731_7307.N1	DC map used
GOM_TRA_1PNPDE20090727_210700_000000632081_00100_38731_7308.N1	DC map used
GOM_TRA_1PNPDE20090727_211010_000000552081_00100_38731_7309.N1	DC map used
GOM_TRA_1PNPDE20090727_211339_000000522081_00100_38731_7310.N1	DC map used
GOM_TRA_1PNPDE20090727_211639_000000562081_00100_38731_7311.N1	DC map used

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



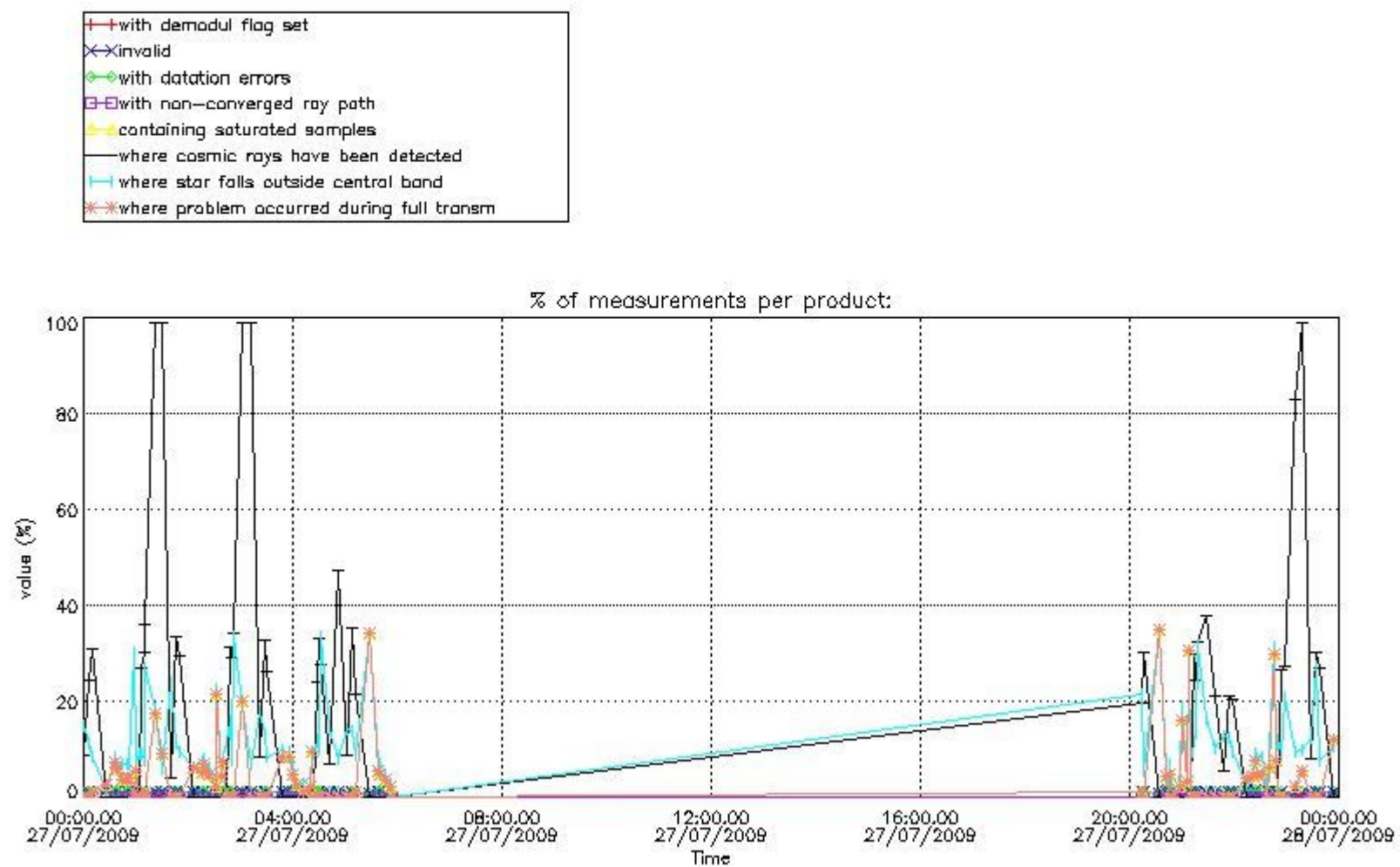
#### 5. Demodulation flag and quality information monitoring

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:

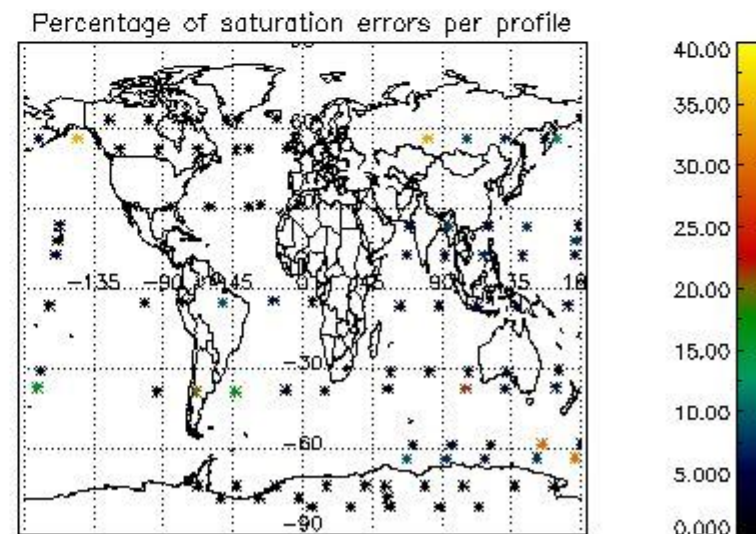
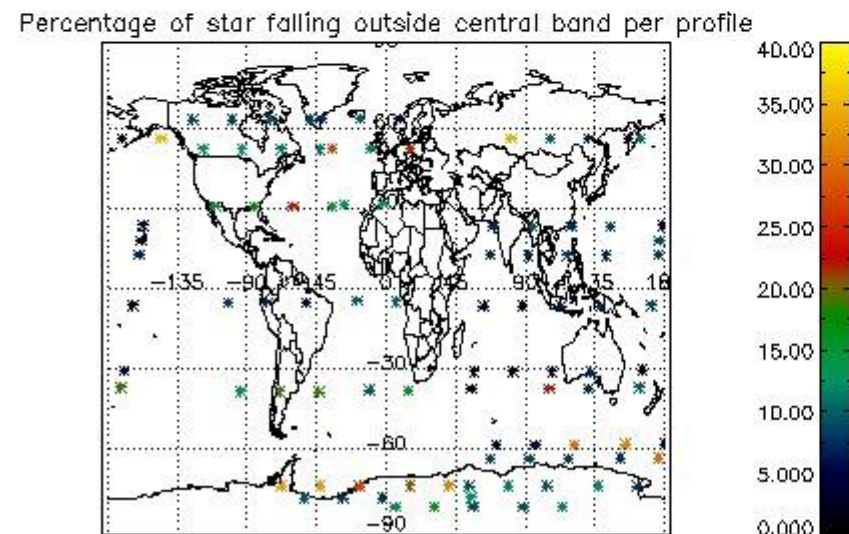
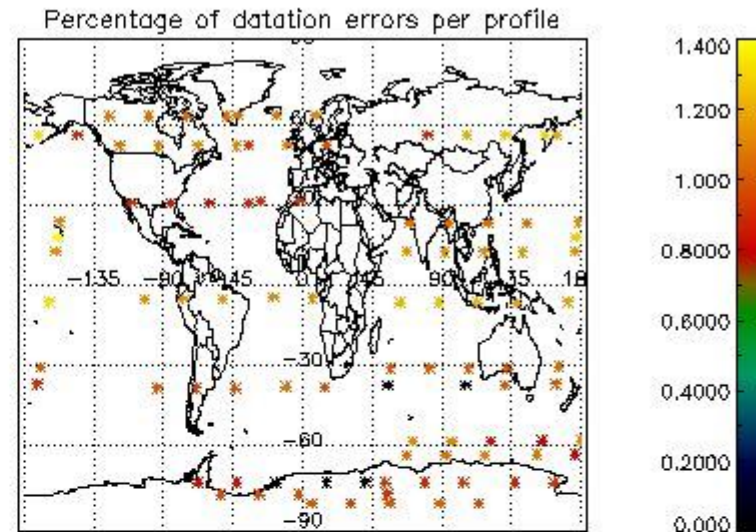
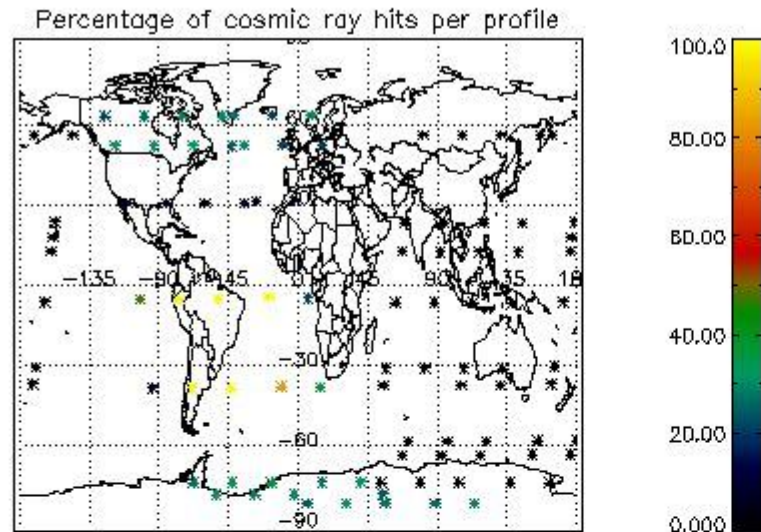
At least one measurement with demodulation flag set:	22.6804 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

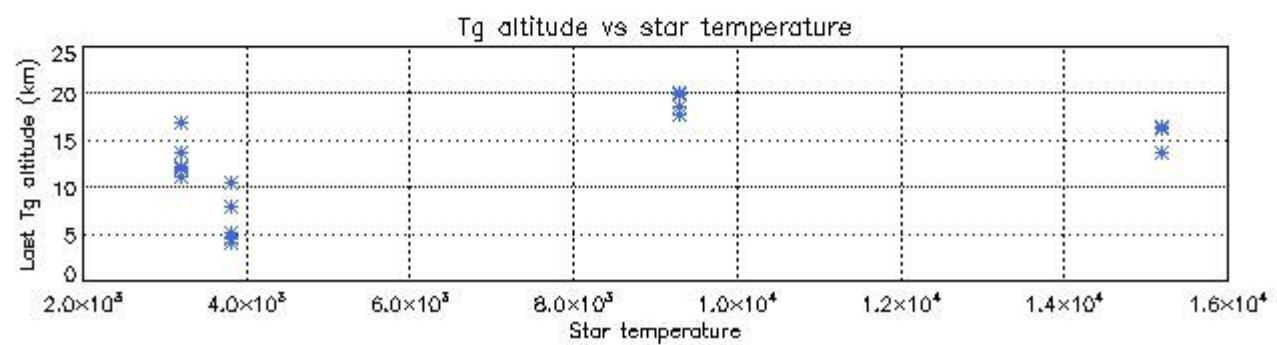
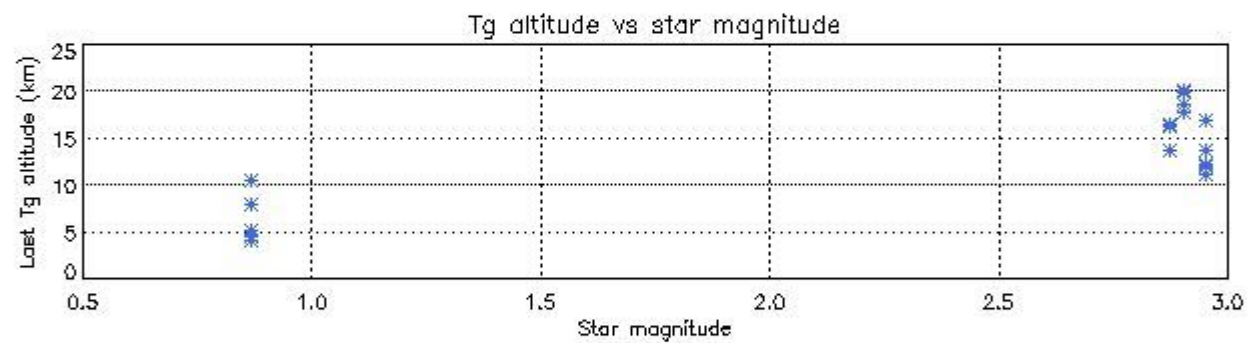
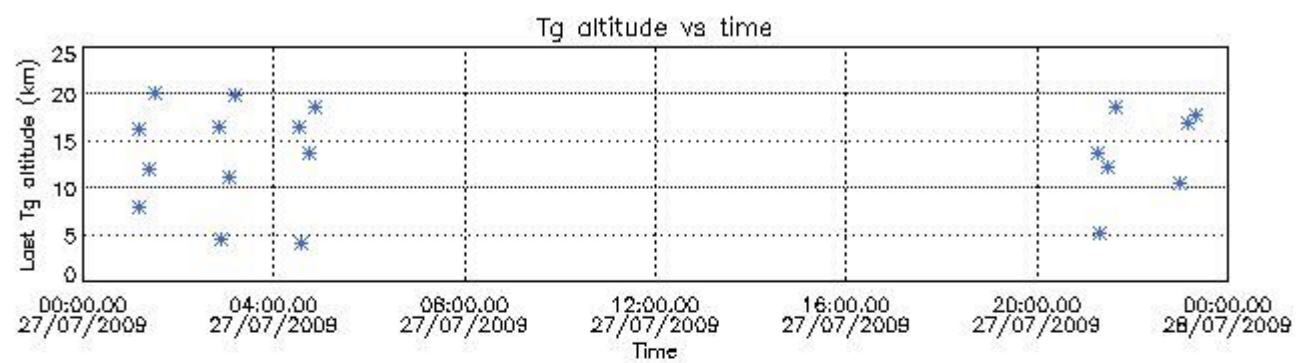
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.462	18.753	NaN
St. deviation:	5.1652	5.3189	NaN
Maximum:	20.043	28.687	NaN
Minimum:	3.9782	4.2744	NaN
Number of data:	19.000	53.000	NaN

### 6.2 Plot for DARK limb products

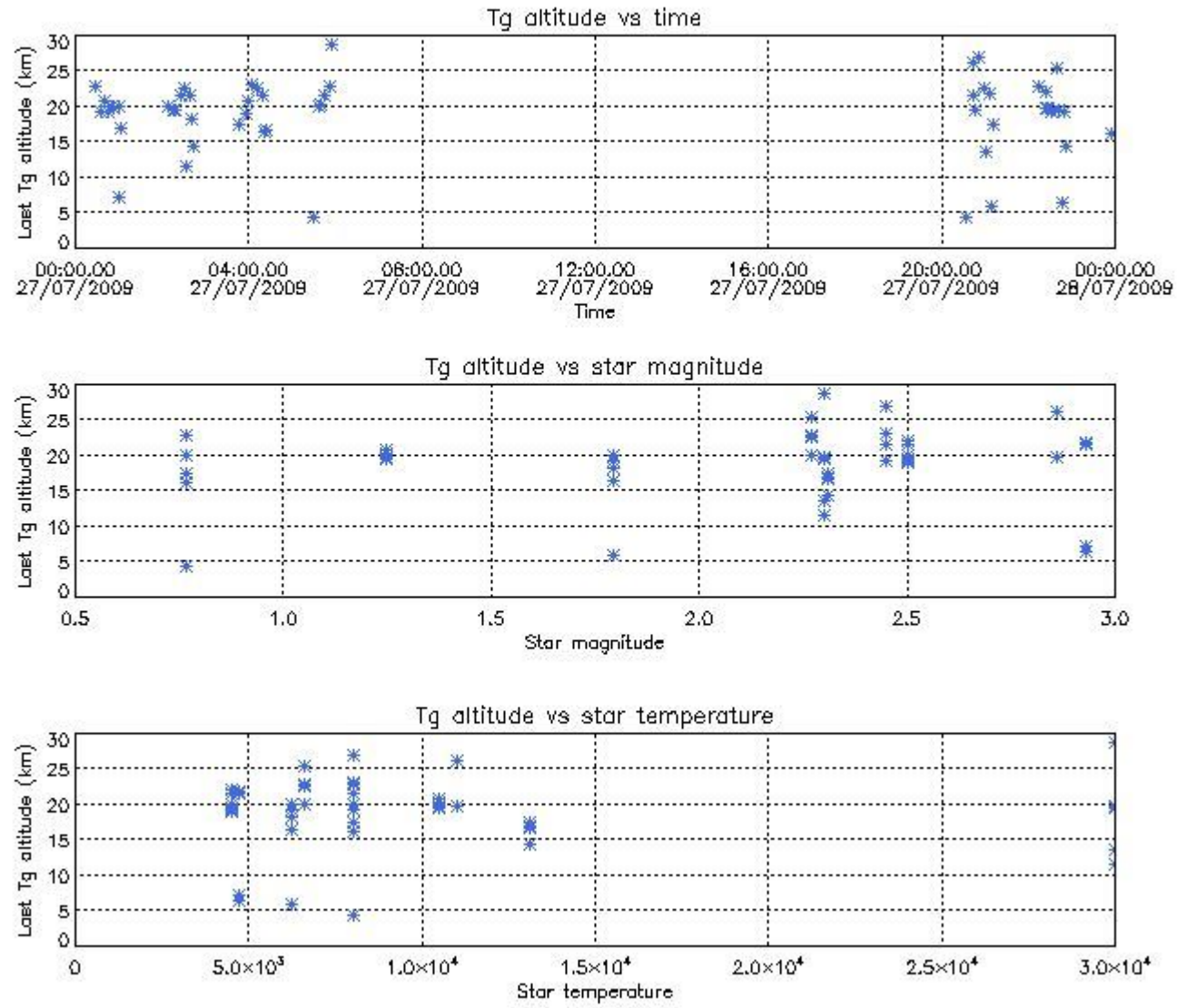


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

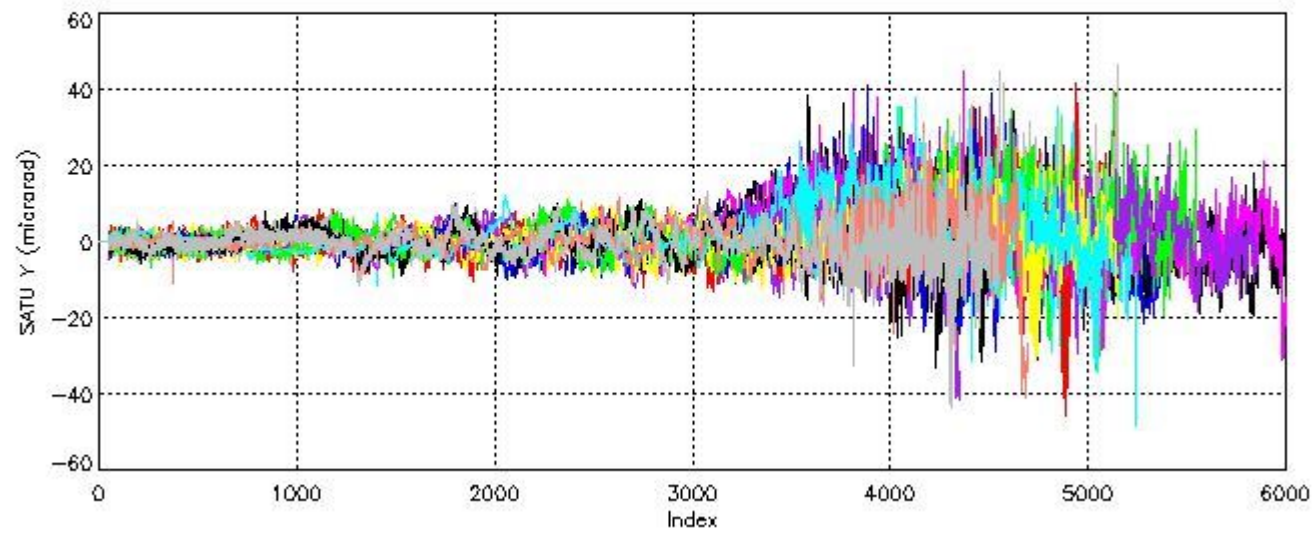
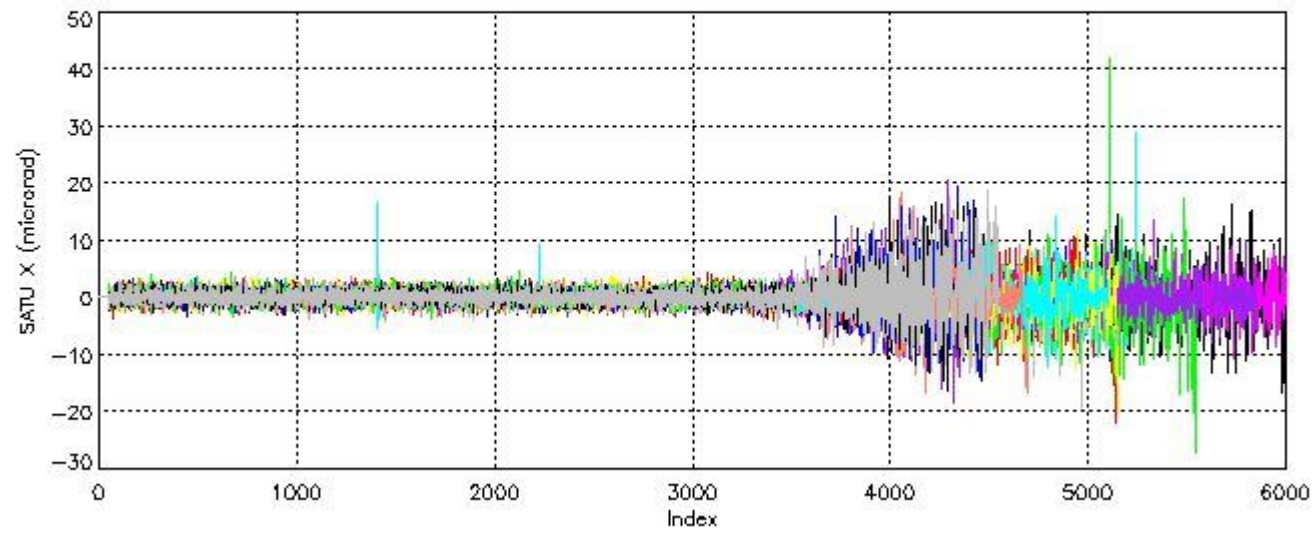


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17330	-0.29324	0.27357	-0.43825
St. deviation:	0.59956	1.3912	0.64337	1.1804
Maximum:	4.5000	7.7000	5.6000	7.5000
Minimum:	-3.6000	-10.900	-4.6000	-11.100



Number of data:	20050.	20050.	55600.	55600.
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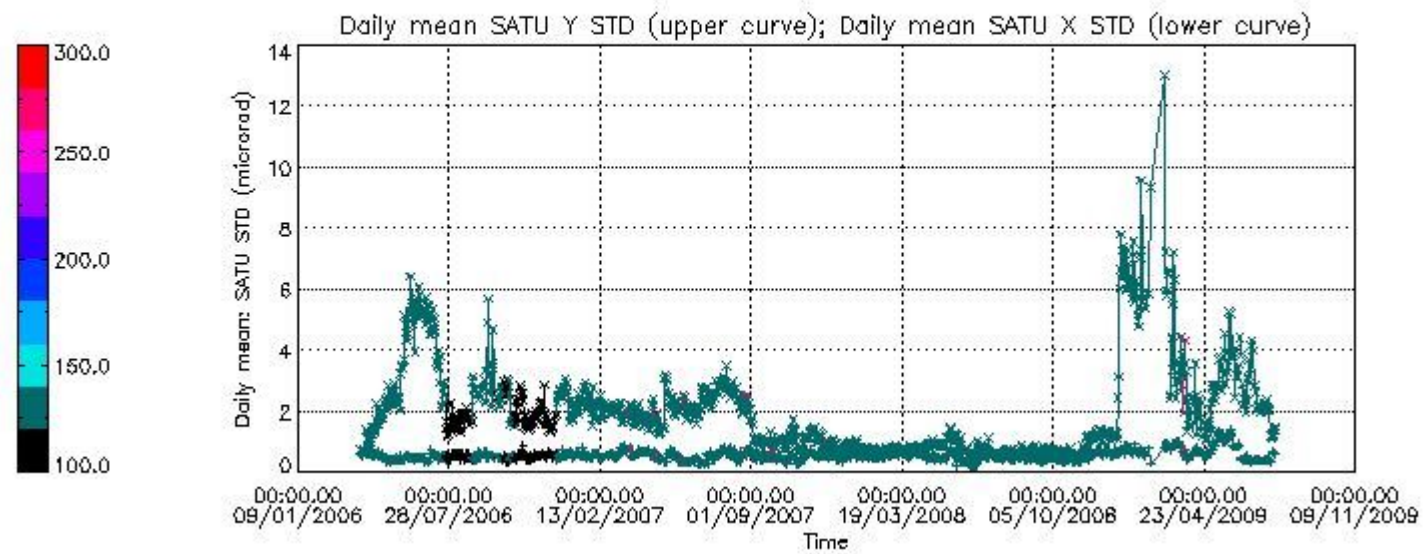
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

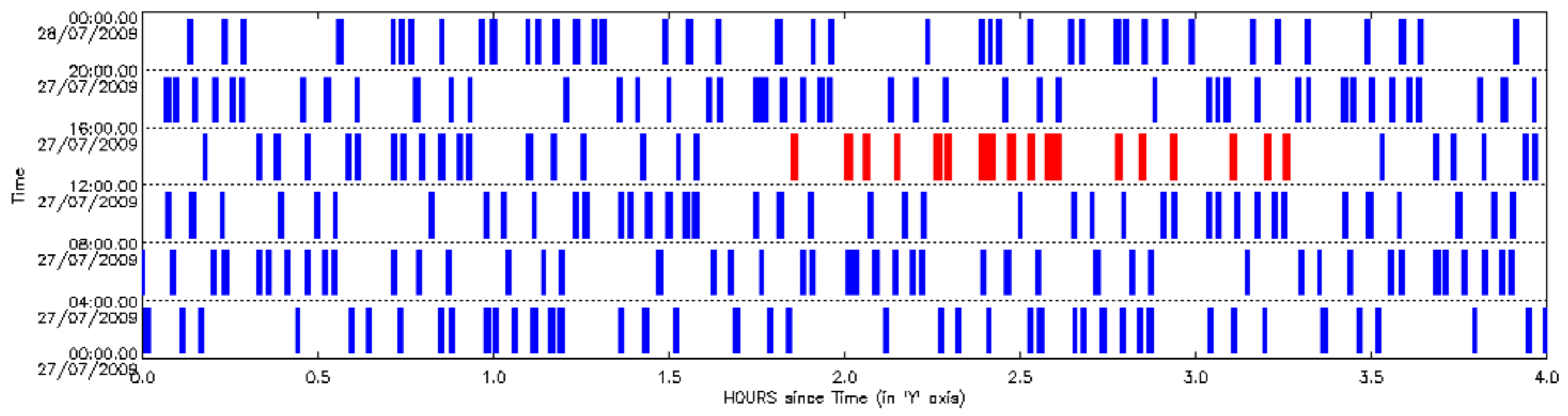
Lower curve: STD of SATU X axis

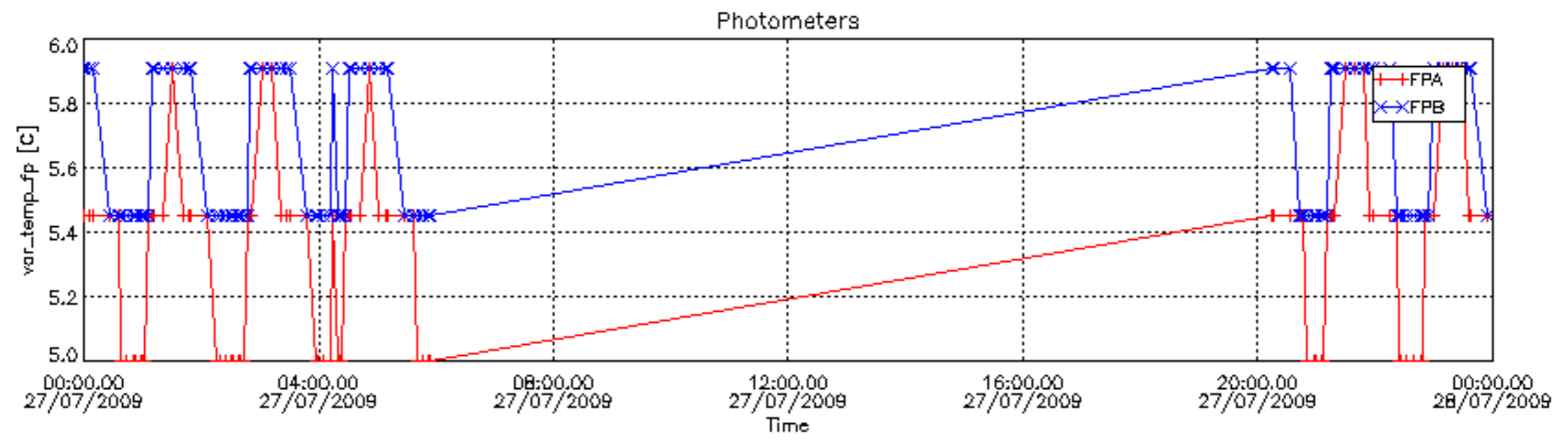
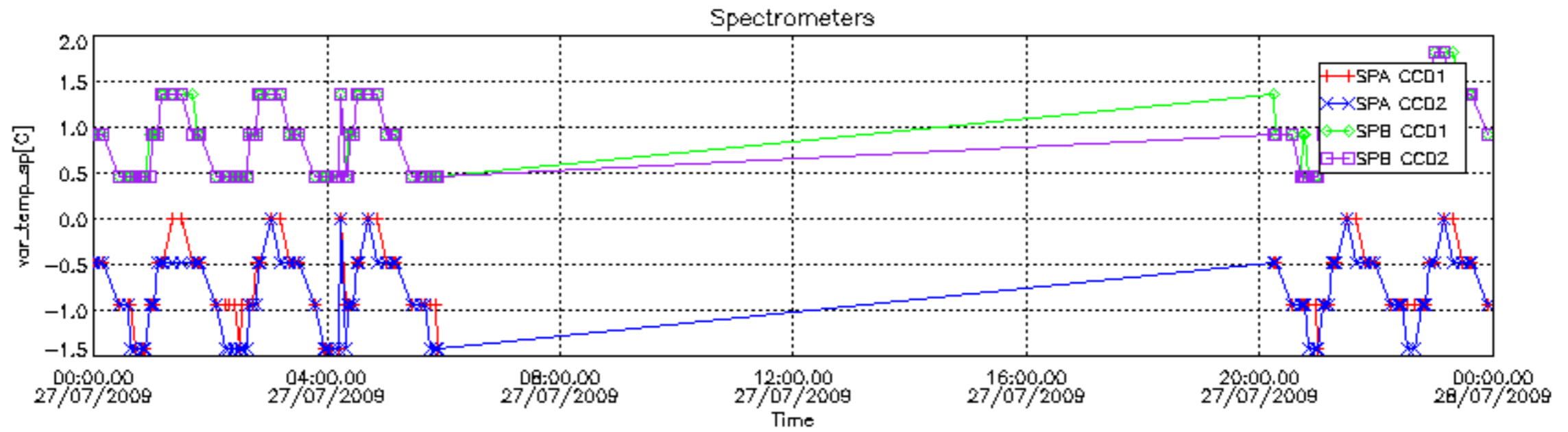


### 8. Auxiliary Data Files used for the production reported in section 2.4

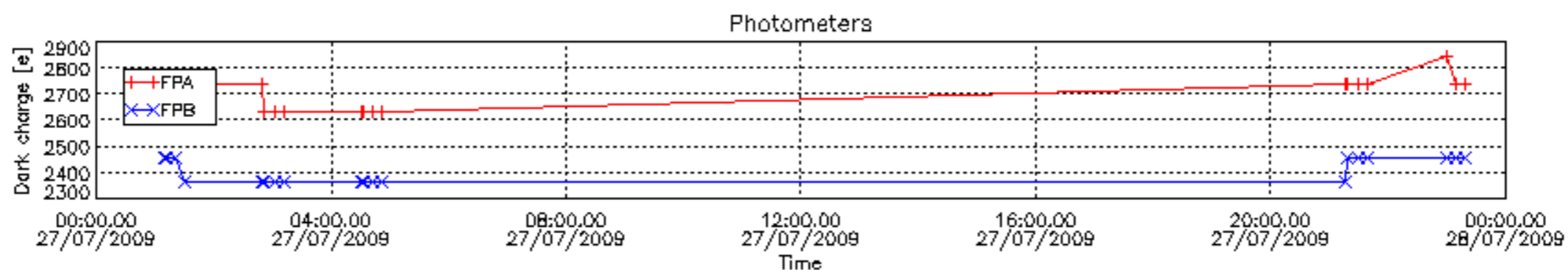
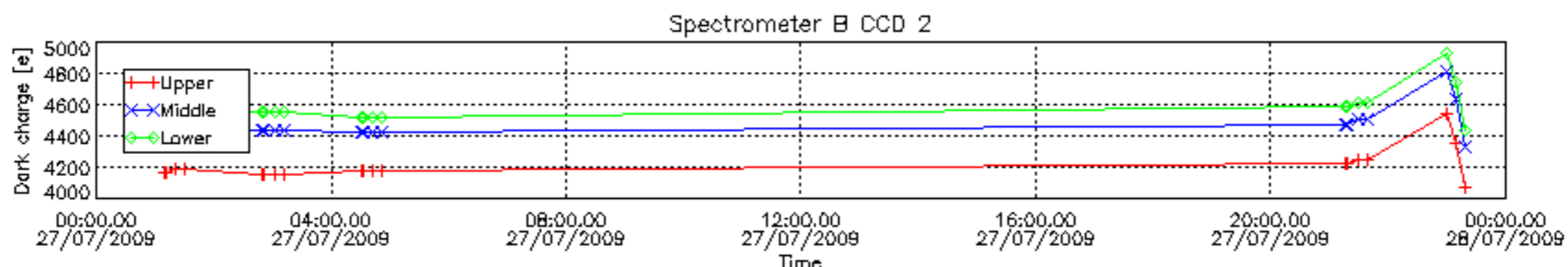
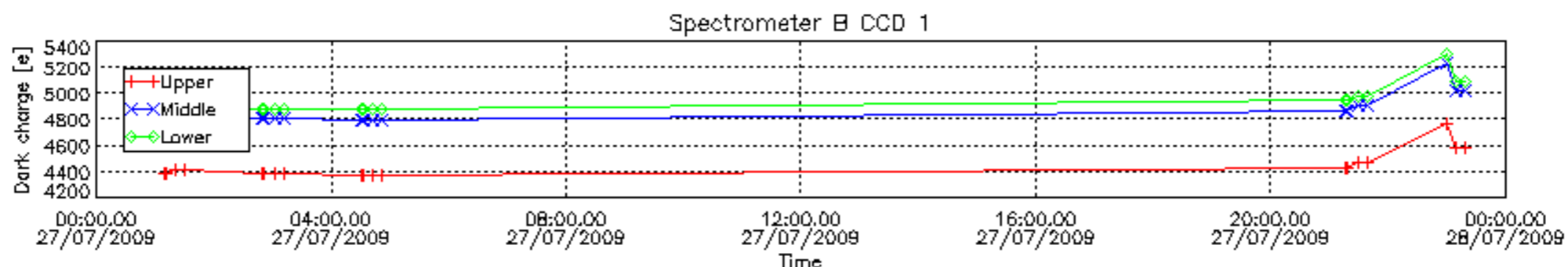
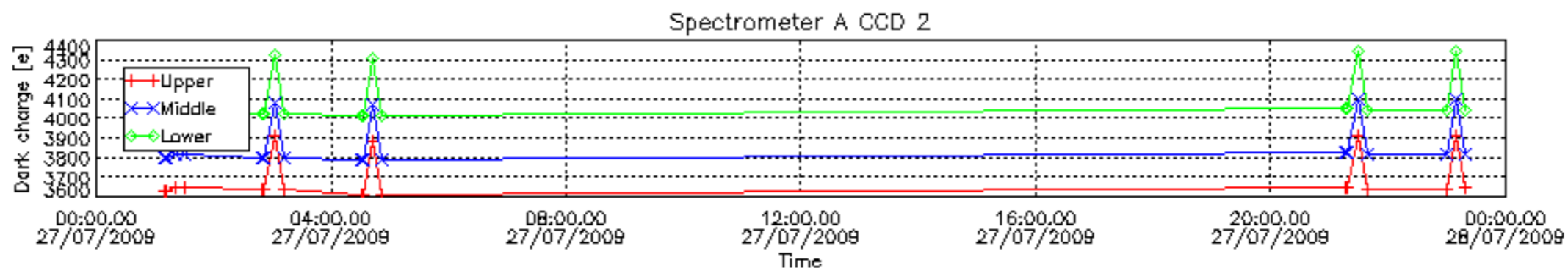
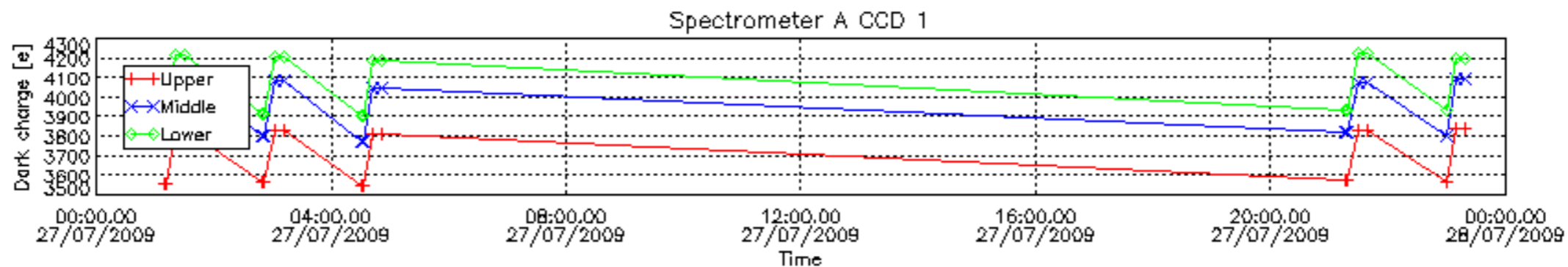
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

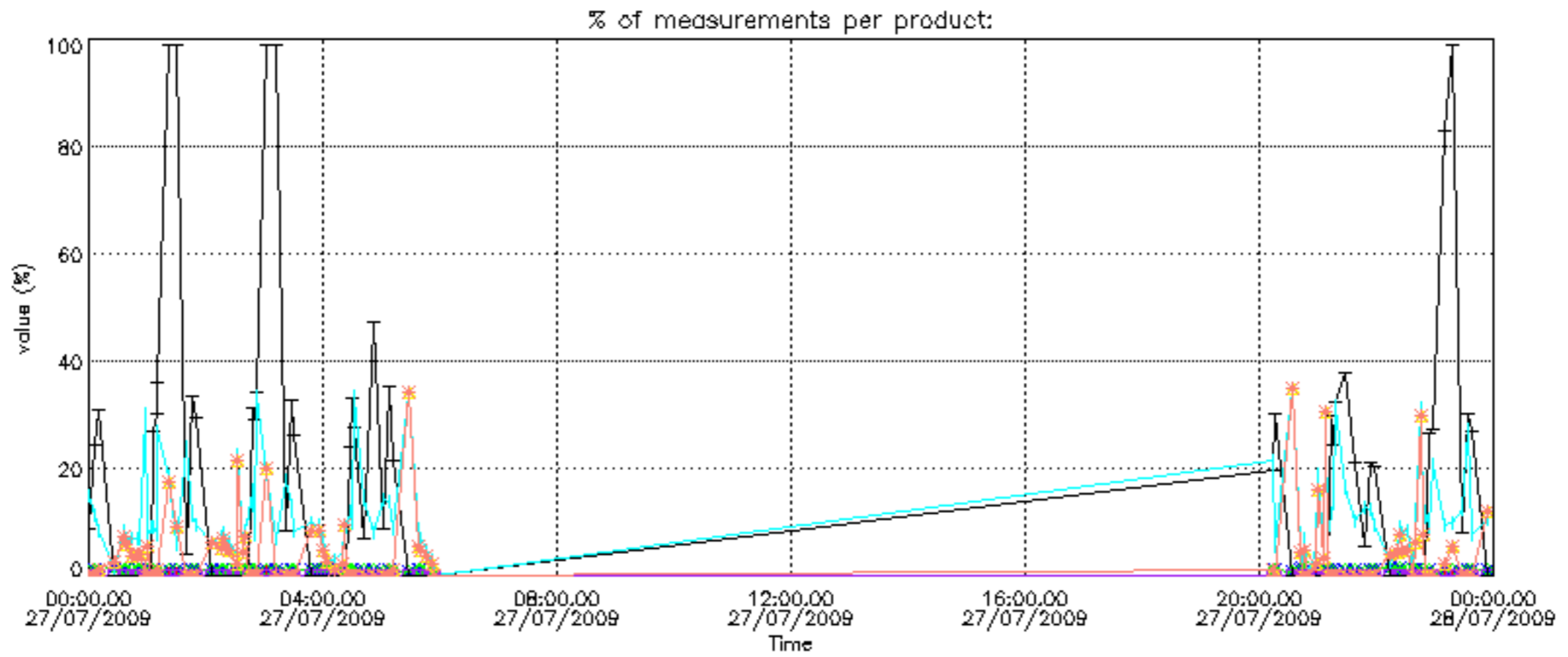
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JUL-2009 00:00:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	1	27-JUL-2009 00:00:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JUL-2009 00:00:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUL-2009 00:00:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JUL-2009 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20090726_064118_20090726_210000_20090727_090000	1	27-JUL-2009 00:00:09
ECMWF_FILE	AUX_ECF_AXNECM20090726_184112_20090727_030000_20090727_150000	43	27-JUL-2009 04:13:30
ECMWF_FILE	AUX_ECF_AXNECM20090727_064112_20090727_150000_20090728_030000	61	27-JUL-2009 20:13:33
ECMWF_FILE	AUX_ECF_AXNECM20090727_064113_20090727_210000_20090728_090000	76	27-JUL-2009 21:28:42
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUL-2009 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_215420_000057382081_00086_38717_8430.N1	1	27-JUL-2009 00:00:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_233517_000057382081_00087_38718_8431.N1	16	27-JUL-2009 01:21:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090727_011614_000044632081_00088_38719_8432.N1	27	27-JUL-2009 02:38:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090727_023556_000054192081_00089_38720_8433.N1	43	27-JUL-2009 04:13:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090727_201315_000038252081_00100_38731_8435.N1	61	27-JUL-2009 20:13:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090727_212219_000060572081_00100_38731_8436.N1	93	27-JUL-2009 23:09:18



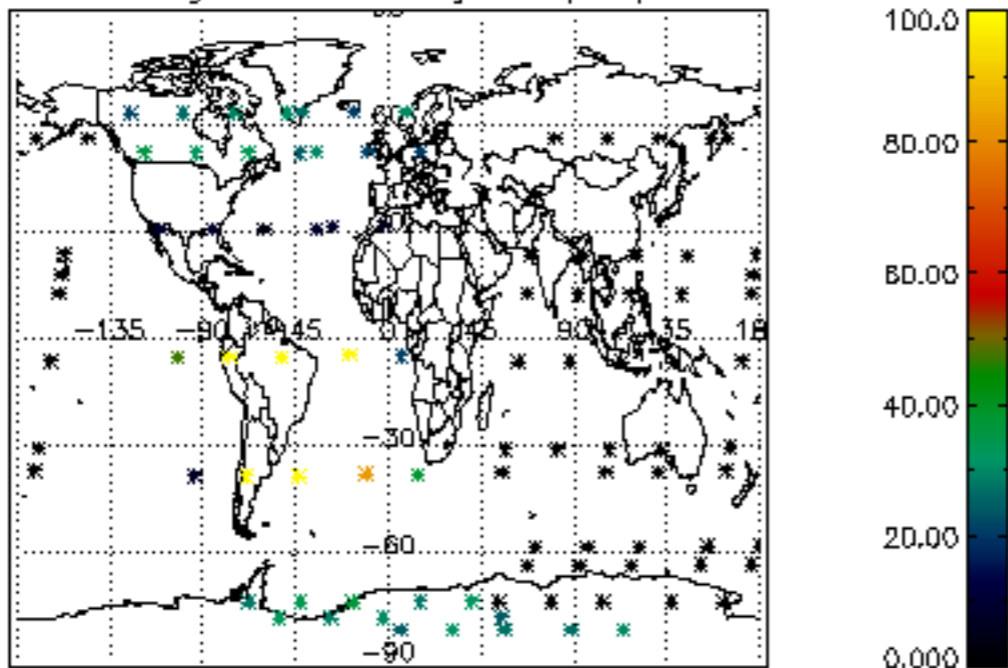




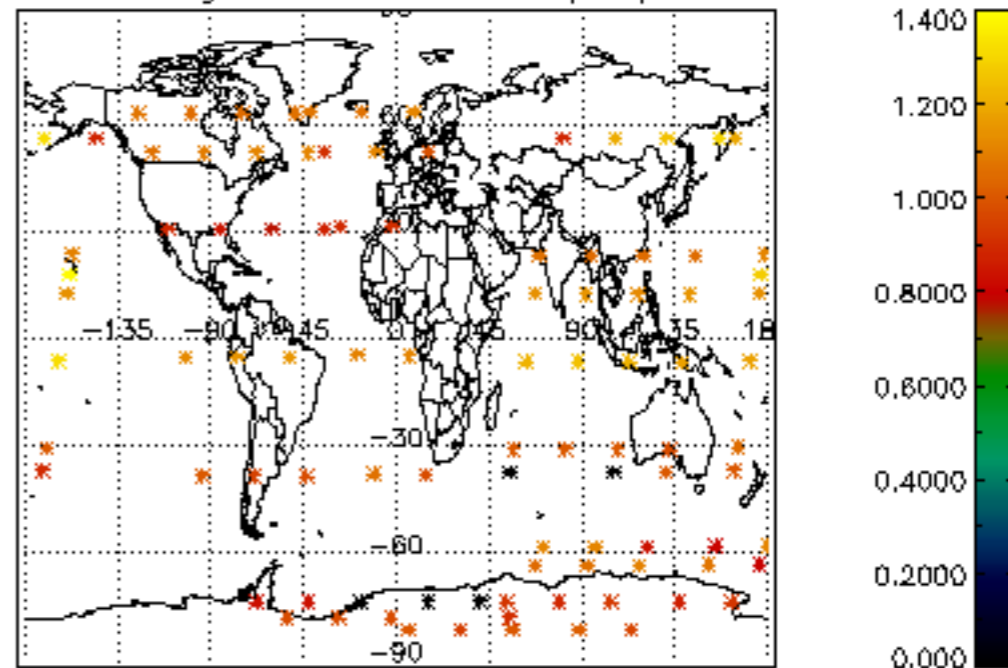




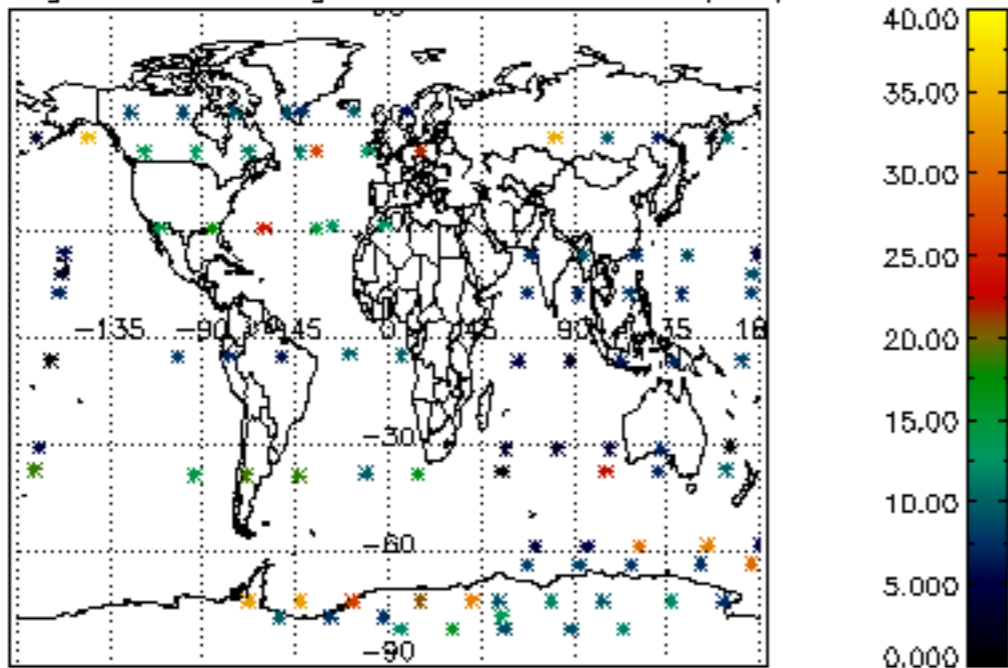
Percentage of cosmic ray hits per profile



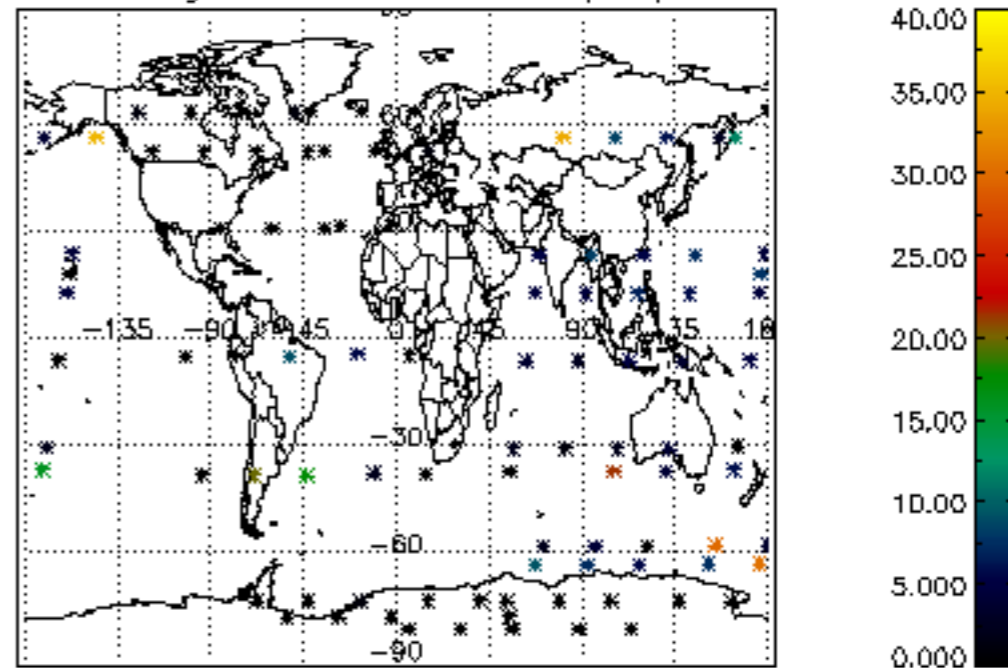
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

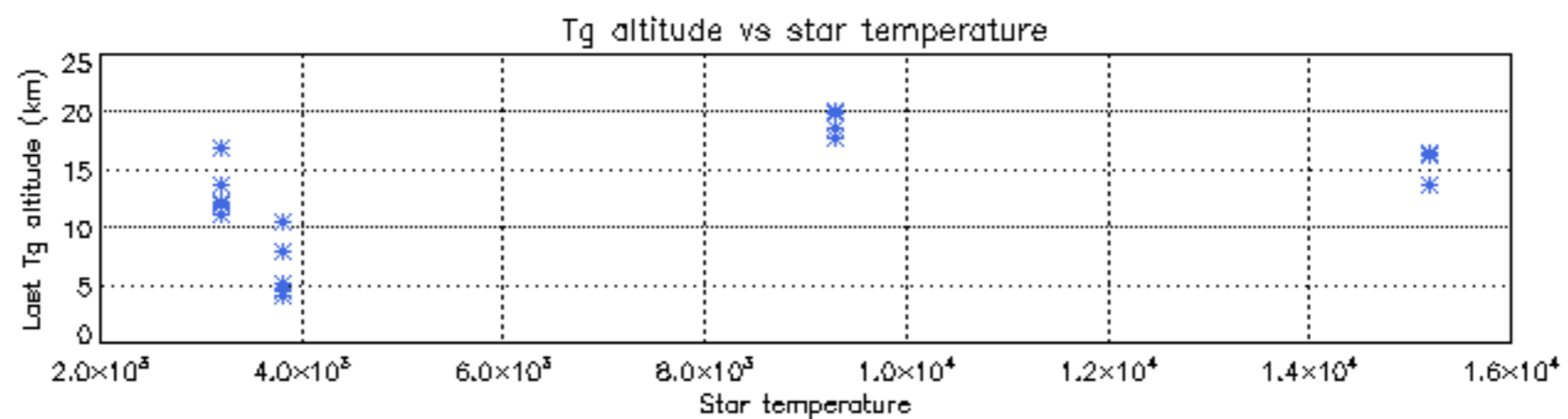
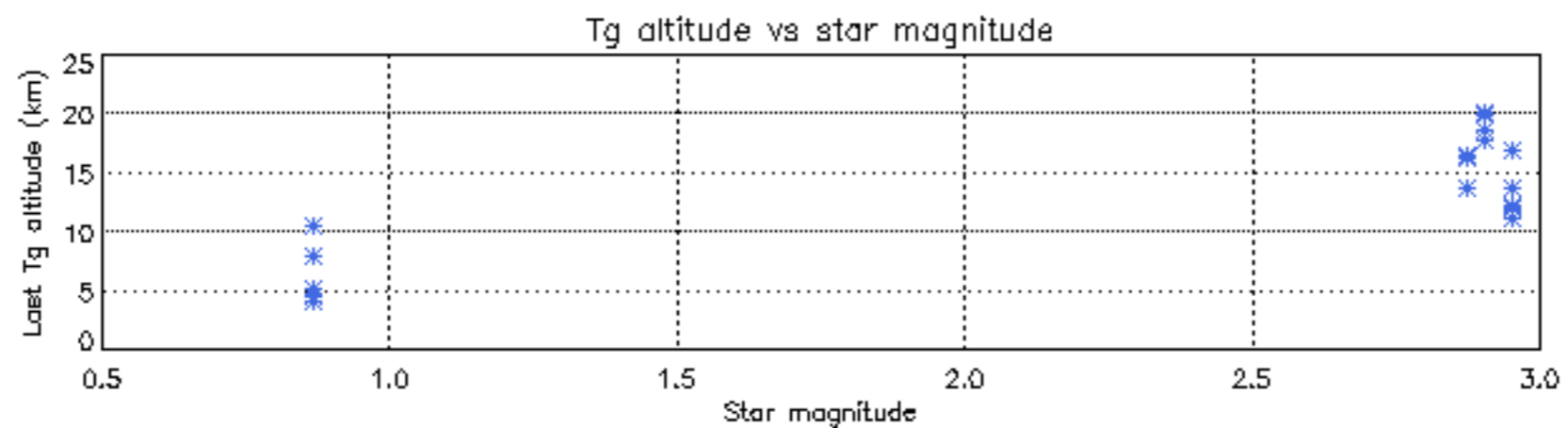
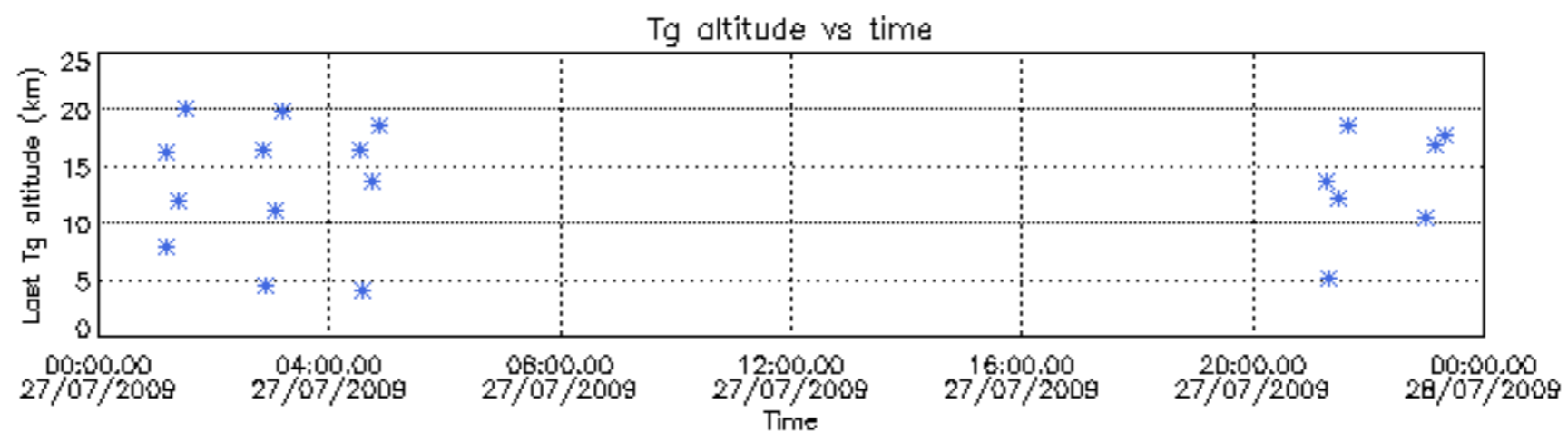


Percentage of saturation errors per profile

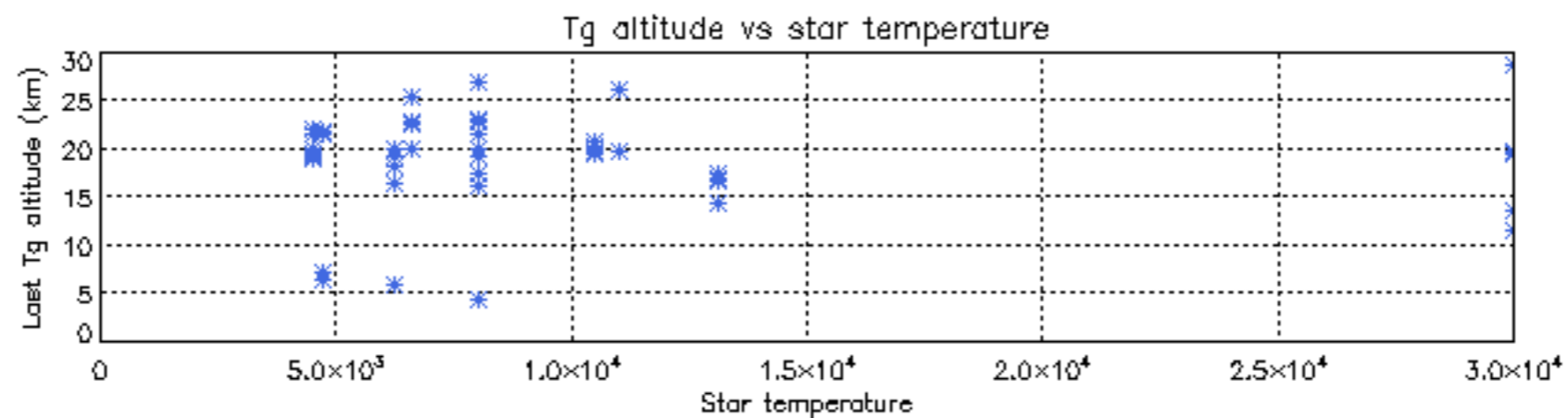
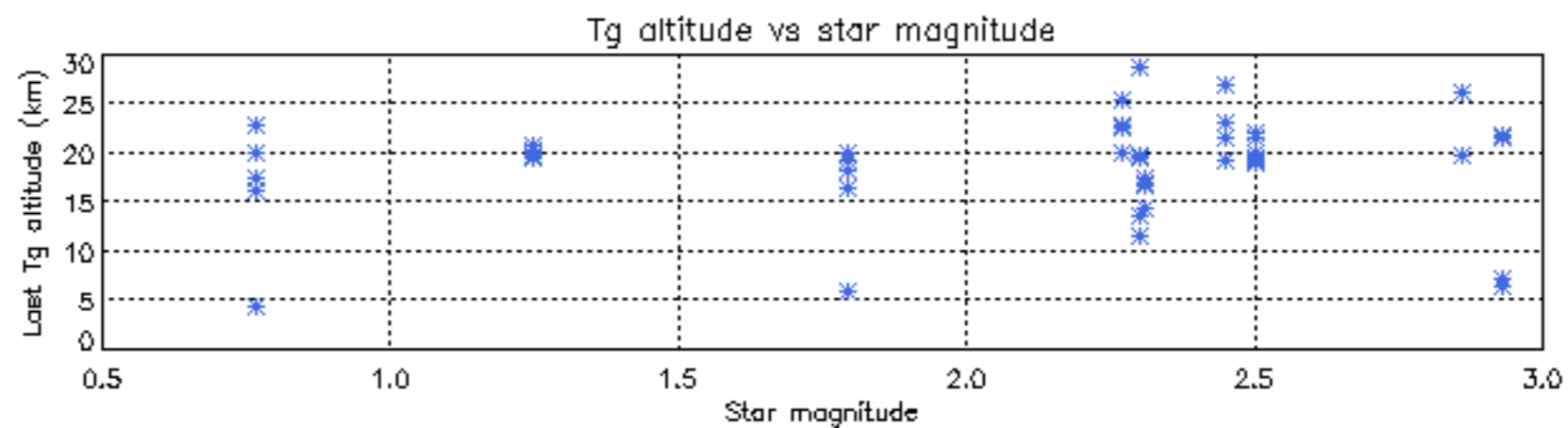
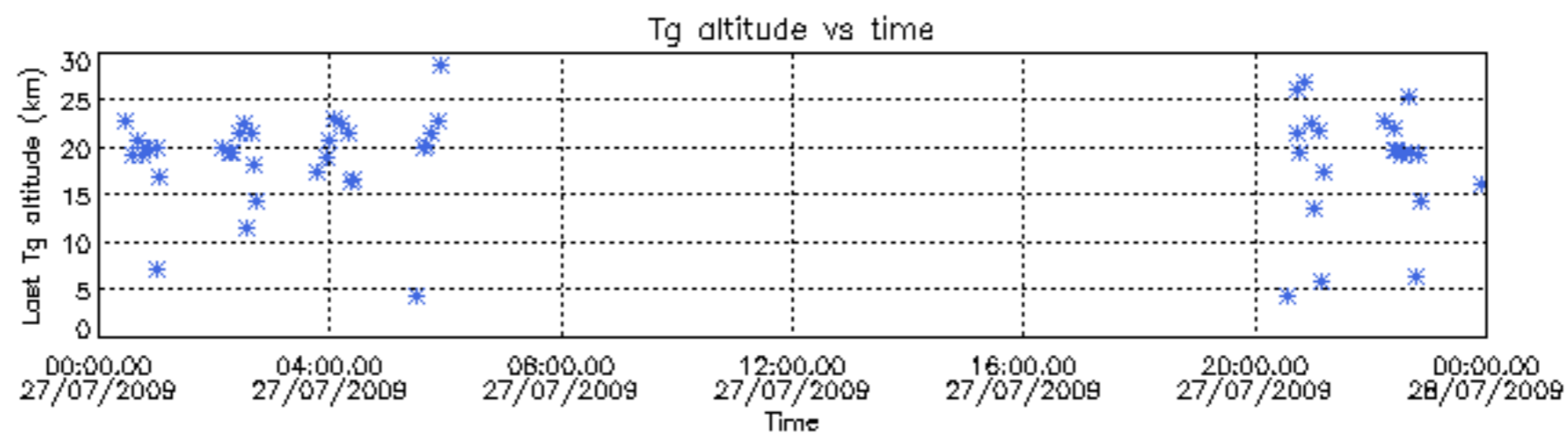


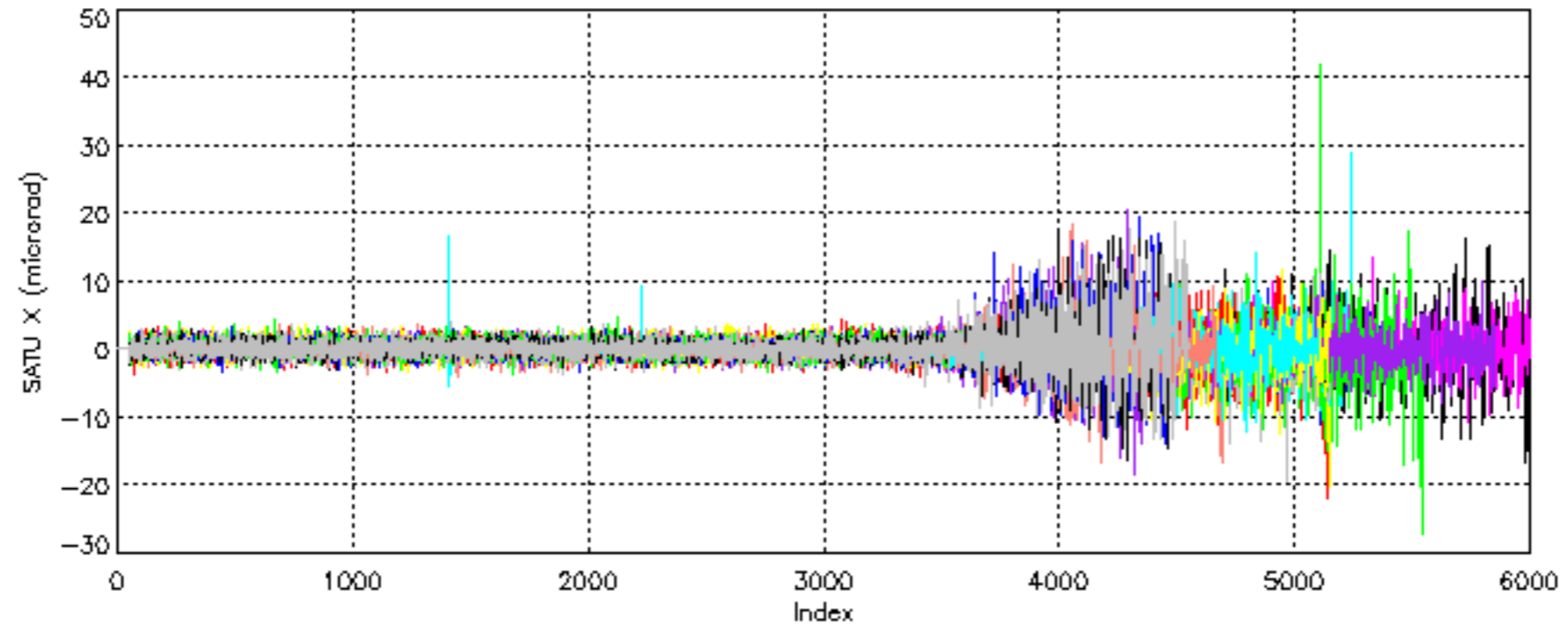


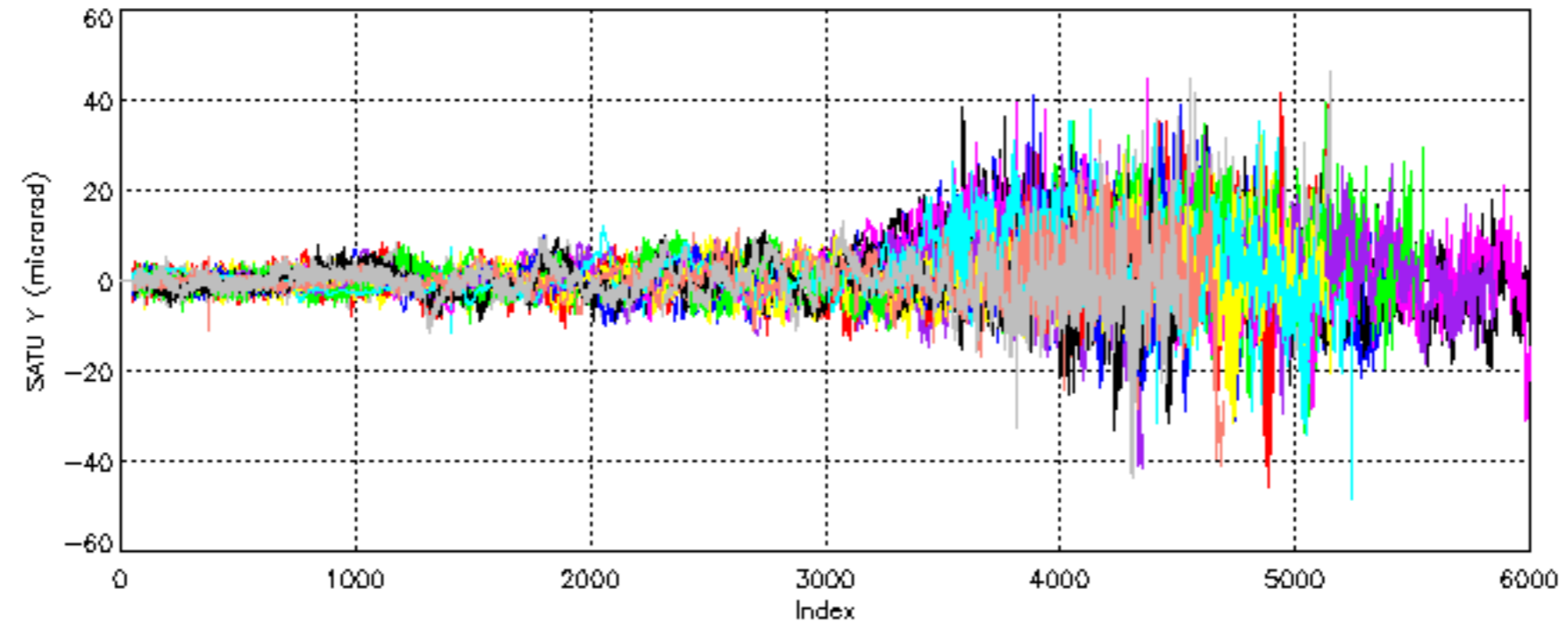
Tangent altitude at which the star is lost



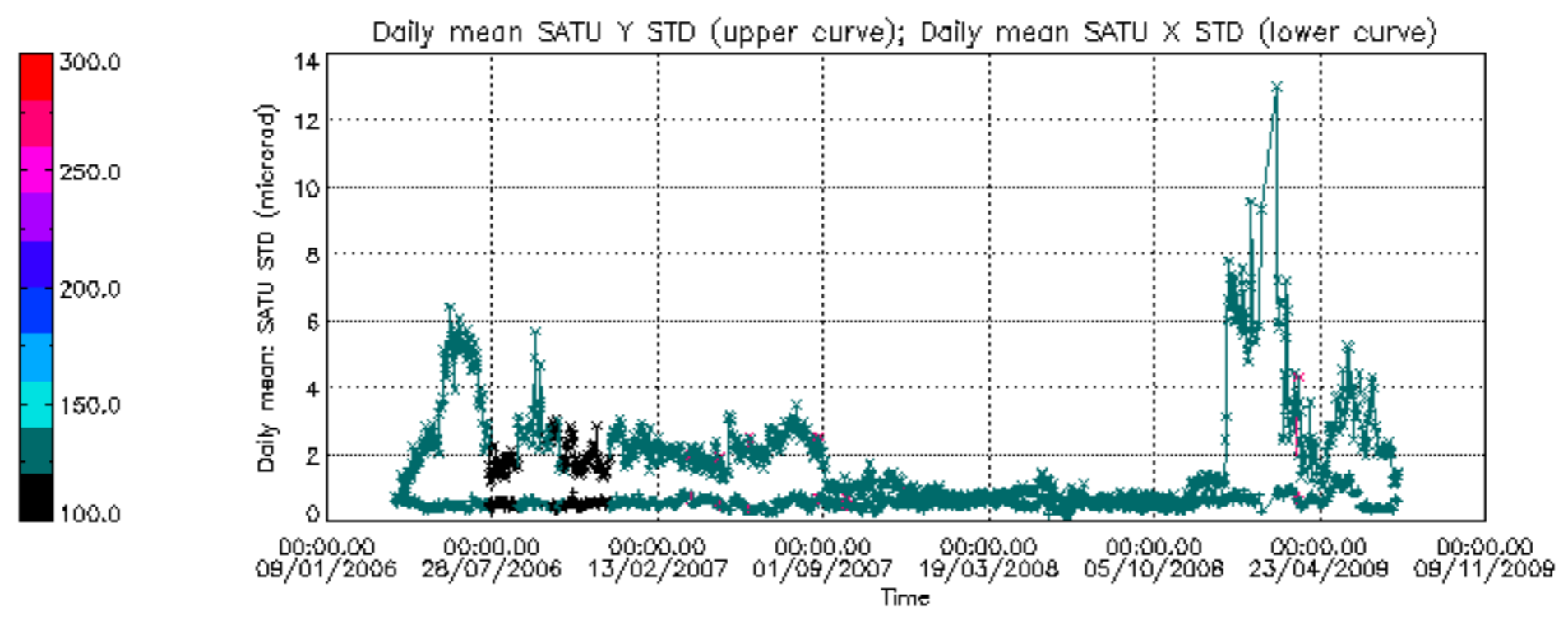
Tangent altitude at which the star is lost











```
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090702_010909_000044272080_00231_38361_8080.N1
1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361
2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_014033_000044422080_00217_38347_8074.N1
1; -532.5; 01-JUL-2009 01:40:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38347
2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348
3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
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9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
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6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
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8; 2639.3; 02-JUL-2009 22:08:59; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;38374
9; 2899.7; 02-JUL-2009 22:13:20; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38374
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11; 3770.7; 02-JUL-2009 22:27:51; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38374
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8; 4426.4; 02-JUL-2009 12:35:11; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38368
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2; 2206.6; 04-JUL-2009 15:56:45; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38399
3; 2628.5; 04-JUL-2009 16:03:47; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;38399
4; 2880.0; 04-JUL-2009 16:07:58; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38399
5; 3309.1; 04-JUL-2009 16:15:07; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38399
6; 3757.0; 04-JUL-2009 16:22:35; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38399
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8; 4262.7; 04-JUL-2009 16:31:01; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38399
9; 4428.7; 04-JUL-2009 16:33:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38399
10; 4698.9; 04-JUL-2009 16:38:17; Dark ; 42.5; 50; 13Alp Ari ; 2.01; 4250;occ; 85; 0;38399
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13; 6574.0; 04-JUL-2009 17:09:32; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38399
14; 6686.1; 04-JUL-2009 17:11:24; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38399
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2; 2206.1; 04-JUL-2009 17:37:20; Bright; 46.0; 168; 17Zet Aql ; 2.99; 11000;occ; 92; 0;38400
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4; 2879.2; 04-JUL-2009 17:48:33; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38400
5; 3308.3; 04-JUL-2009 17:55:42; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38400
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8; 4262.7; 04-JUL-2009 18:11:37; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38400
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11; 5553.1; 04-JUL-2009 18:33:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38400
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13; 6575.0; 04-JUL-2009 18:50:09; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38400
14; 6687.0; 04-JUL-2009 18:52:01; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38400
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4; 2878.4; 04-JUL-2009 19:29:08; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38401
5; 3307.9; 04-JUL-2009 19:36:18; Bright; 53.0; 89; 5Alp Cep ; 2.45; 8000;occ; 106; 0;38401
6; 3756.1; 04-JUL-2009 19:43:46; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38401
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14; 6687.8; 04-JUL-2009 20:32:38; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38401
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6; 1491.7; 05-JUL-2009 01:48:25; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38405
7; 2204.1; 05-JUL-2009 02:00:18; Bright; 47.0; 168; 17Zet Aql ; 2.99; 11000;occ; 94; 0;38405
8; 2626.2; 05-JUL-2009 02:07:20; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38405
9; 2875.1; 05-JUL-2009 02:11:29; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38405
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11; 2203.8; 05-JUL-2009 03:40:53; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;38406
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13; 2874.4; 05-JUL-2009 03:52:04; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38406
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6; -476.9; 05-JUL-2009 04:36:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38406
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3; -1774.0; 05-JUL-2009 05:55:48; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38407
4; -1606.5; 05-JUL-2009 05:58:35; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38407
5; -1334.2; 05-JUL-2009 06:03:07; Dark ; 43.5; 50; 13Alp Ari ; 2.01; 4250;occ; 87; 0;38407
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8; 545.2; 05-JUL-2009 06:34:27; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38408
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10; 839.2; 05-JUL-2009 06:39:21; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38408
11; 1492.4; 05-JUL-2009 06:50:14; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38408
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4; 2866.9; 05-JUL-2009 20:37:56; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38416
5; 3298.2; 05-JUL-2009 20:45:07; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38416
6; 3747.1; 05-JUL-2009 20:52:36; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;38416
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5; 847.7; 05-JUL-2009 21:44:53; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38417
6; 2199.5; 05-JUL-2009 22:07:24; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38417
7; 2621.5; 05-JUL-2009 22:14:26; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;38417
8; 2865.9; 05-JUL-2009 22:18:31; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38417
9; 3297.5; 05-JUL-2009 22:25:42; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38417
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11; 3855.1; 05-JUL-2009 22:35:00; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38417
12; 4261.1; 05-JUL-2009 22:41:46; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38417
13; 4429.9; 05-JUL-2009 22:44:35; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38417
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 3; -1774.0; 05-JUL-2009 07:36:23; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38408  
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 7; 546.3; 05-JUL-2009 08:15:04; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38409  
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 11; 6200.3; 05-JUL-2009 09:49:18; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;38409  
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 7; 4261.3; 05-JUL-2009 17:39:58; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38414
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5; 3742.5; 06-JUL-2009 10:17:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38424
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 3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
 4; 678.8; 07-JUL-2009 02:12:14; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38434
 5; 863.9; 07-JUL-2009 02:15:19; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38434
 6; 2192.5; 07-JUL-2009 02:37:28; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38434
 7; 2853.9; 07-JUL-2009 02:48:29; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38434
 8; 3286.0; 07-JUL-2009 02:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38434
 9; 3736.5; 07-JUL-2009 03:03:12; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38434
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 2; -1776.8; 07-JUL-2009 03:11:55; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38434
 3; -1323.2; 07-JUL-2009 03:19:28; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38434
 4; -1016.3; 07-JUL-2009 03:24:35; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38434
 5; -447.6; 07-JUL-2009 03:34:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38434
 6; 191.5; 07-JUL-2009 03:44:43; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38435
 7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
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 9; 864.9; 07-JUL-2009 03:55:56; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38435
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11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38435
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 3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
 4; -1322.9; 07-JUL-2009 05:00:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38435
 5; -1015.7; 07-JUL-2009 05:05:12; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38435
 6; -446.5; 07-JUL-2009 05:14:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38435
 7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
 8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
 9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
13; 3284.9; 07-JUL-2009 06:16:52; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38436
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 2; 2188.7; 07-JUL-2009 21:03:59; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38445
 3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
 4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
 5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
 6; 3845.2; 07-JUL-2009 21:31:36; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38445
 7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
 8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
 9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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3; 580.5; 07-JUL-2009 22:17:47; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38446  
4; 688.6; 07-JUL-2009 22:19:35; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38446  
5; 875.0; 07-JUL-2009 22:22:42; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38446  
6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446  
7; 2845.2; 07-JUL-2009 22:55:32; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38446  
8; 3278.4; 07-JUL-2009 23:02:45; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38446  
9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446  
10; 3844.7; 07-JUL-2009 23:12:11; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38446  
11; 4257.7; 07-JUL-2009 23:19:04; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38446  
12; 4431.8; 07-JUL-2009 23:21:58; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38446  
13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446  
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3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447  
4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447  
5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447  
6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447  
7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447  
8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447  
9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447  
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11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447  
12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447  
13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447  
14; 5026.5; 08-JUL-2009 01:12:29; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38447

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3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436  
4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436  
5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436  
6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436  
7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436  
8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437  
9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437  
10; 681.3; 07-JUL-2009 07:14:05; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38437  
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3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437  
4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437  
5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437  
6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437  
7; 4431.3; 07-JUL-2009 08:16:35; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38437  
8; 4714.1; 07-JUL-2009 08:21:17; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38437  
9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437  
10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38437  
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13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437  
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3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438  
4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438  
5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438  
6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438  
7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438  
8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438  
9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438  
10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438



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13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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13; 6905.6; 07-JUL-2009 12:19:01; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38439
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 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
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9; 704.2; 09-JUL-2009 06:11:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38465

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6; 4255.0; 09-JUL-2009 12:12:12; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38468
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4; 3714.0; 09-JUL-2009 17:04:59; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38471
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6; 4254.7; 09-JUL-2009 17:13:59; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38471
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13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
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 8; 4122.1; 14-JUL-2009 17:54:54; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38543
 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
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13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
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15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
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 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
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8; 4119.2; 16-JUL-2009 18:32:13; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38572
9; 4296.4; 16-JUL-2009 18:35:10; Bright; 43.5; 79; 26Bet Per ; 2.31; 13100;occ; 87; 0;38572
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13; 6383.1; 16-JUL-2009 19:09:57; Dark ; 65.5; 84; Alp Phe ; 2.40; 4500;occ; 131; 0;38572
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13; 5467.3; 17-JUL-2009 08:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38580
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6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
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 4; 3195.5; 17-JUL-2009 11:02:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38582  
 5; 3639.4; 17-JUL-2009 11:10:12; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38582  
 6; 3756.2; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582  
 7; 4035.4; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
 8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
 9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
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 11; 4629.6; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582  
 12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
 14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582  
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 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582  
 17; 7021.9; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38582

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 3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
 5;-1739.8; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
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 8; -918.2; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
 9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583  
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583  
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583  
 13; 986.0; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38583

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 2; 2765.4; 17-JUL-2009 12:36:14; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38583  
 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
 4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583  
 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583  
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583  
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583  
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583  
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583  
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583  
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583  
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583  
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583  
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583  
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583  
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584  
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584  
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584  
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584  
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584  
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584  
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584  
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584  
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584  
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584  
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584  
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584  
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584  
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585  
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585  
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585  
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585  
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585  
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585  
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585  
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 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585  
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585  
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585  
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585  
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585  
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 2; 2763.9; 17-JUL-2009 17:38:01; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38586  
 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586  
 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586  
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586  
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586  
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586  
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586  
 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586  
 10; 4473.3; 17-JUL-2009 18:06:30; Dark ; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;38586  
 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586  
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586  
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586  
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586  
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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586  
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591  
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591  
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591  
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591  
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591  
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591  
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591  
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591  
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591  
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 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591  
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591  
 5; -557.9; 18-JUL-2009 02:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38591  
 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592  
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
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5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
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9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
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17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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3;-2002.4; 18-JUL-2009 05:43:22; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;38593
4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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9; 371.6; 18-JUL-2009 06:22:56; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38594
10; 708.2; 18-JUL-2009 06:28:32; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38594
11; 800.3; 18-JUL-2009 06:30:04; Dark ; 55.5; 31; Alp Gru ; 1.73; 15200;occ; 111; 0;38594
12; 993.9; 18-JUL-2009 06:33:18; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38594
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8; 4103.7; 24-JUL-2009 07:36:37; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38680
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 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
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8; 2634.0; 25-JUL-2009 21:45:54; Bright; 46.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 93; 0;38703
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11; 4661.0; 25-JUL-2009 10:35:30; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38696
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16; 6525.4; 25-JUL-2009 11:06:34; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38696
17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
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5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
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8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
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11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698  
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698  
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699  
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 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699  
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699  
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699  
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699  
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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700  
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 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700  
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 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700  
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 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700  
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700  
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700  
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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701  
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701  
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701  
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701  
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701  
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 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701  
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701  
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
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5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
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11; 518.7; 27-JUL-2009 06:42:37; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38723

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