

# GOMOS Daily Report 15-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	18JUL2009 04:43:29
Data source version	GOMOS/5.00
Start time of products	15JUL2009 00:03:45
Stop time of products	15JUL2009 23:59:48
Store outputs in DB	Yes
Nb of level 1b prods	98
Nb of prods with errors	0

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

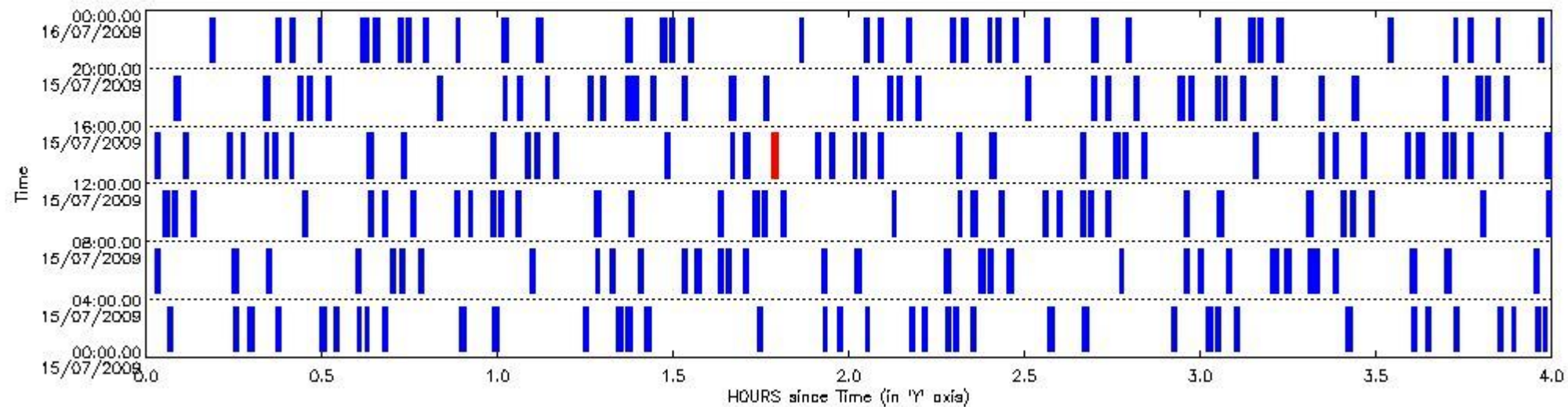
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
15-JUL-2009 13:46:53	5AlpCep	89	38555

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

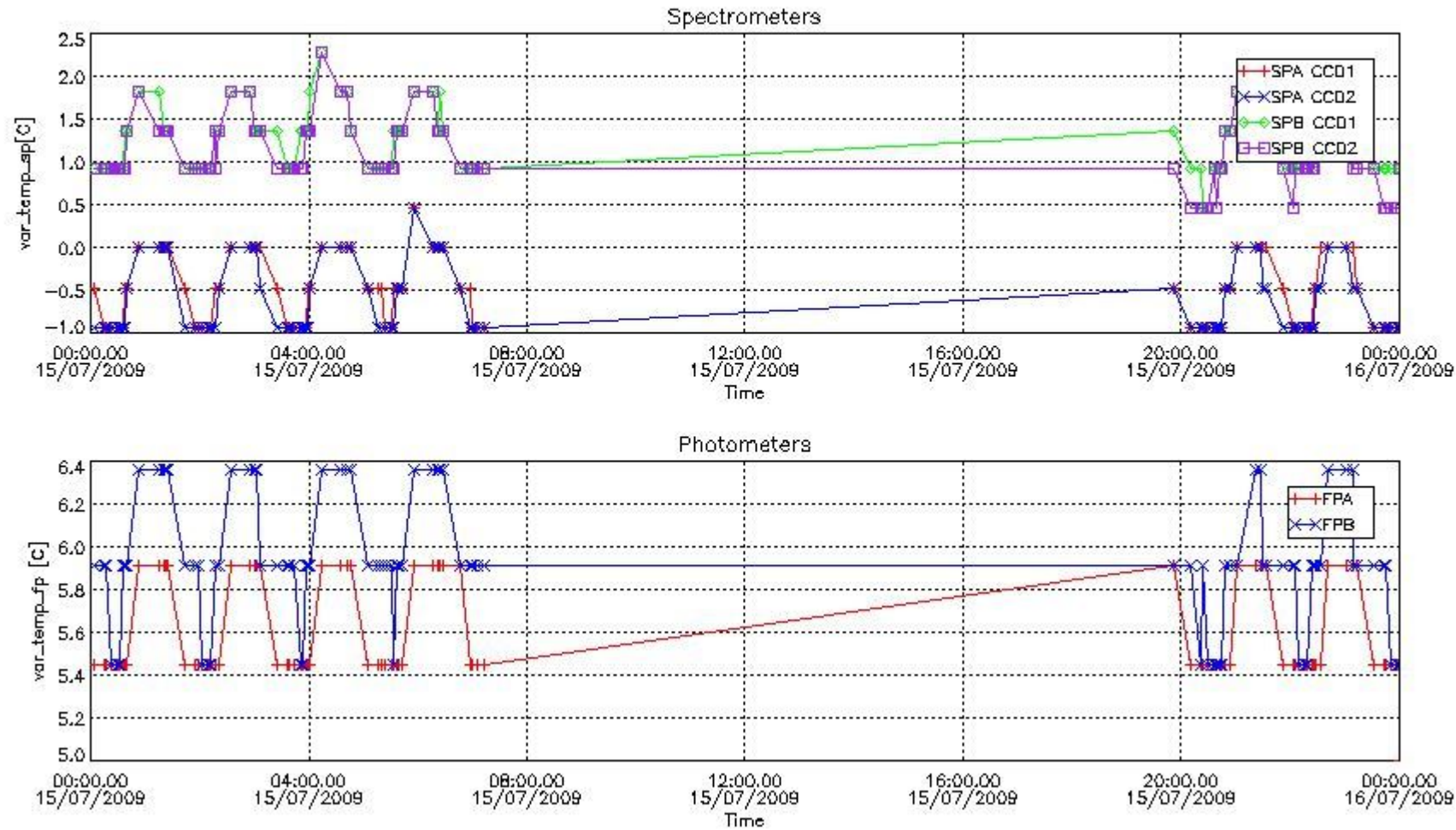
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090715_000345_000000502080_00417_38547_7717.N1	15-JUL-2009 00:03:45	Bright	49.500	11	53Alp Aql	0.76500	8000.0	99	38547	No
2	GOM_TRA_1PNPDE20090715_001459_000000412080_00417_38547_7718.N1	15-JUL-2009 00:14:59	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	38547	No
3	GOM_TRA_1PNPDE20090715_001724_000000522080_00417_38547_7719.N1	15-JUL-2009 00:17:24	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	38547	No
4	GOM_TRA_1PNPDE20090715_002211_000000392080_00417_38547_7720.N1	15-JUL-2009 00:22:11	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	38547	No
5	GOM_TRA_1PNPDE20090715_002939_000000652080_00417_38547_7721.N1	15-JUL-2009 00:29:39	Bright	65.000	74	11Bet Cas	2.2680	6600.0	130	38547	No
6	GOM_TRA_1PNPDE20090715_003200_000000452080_00417_38547_7722.N1	15-JUL-2009 00:32:00	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38547	No
7	GOM_TRA_1PNPDE20090715_003557_000000372080_00417_38547_7723.N1	15-JUL-2009 00:35:57	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	38547	No
8	GOM_TRA_1PNPDE20090715_003717_000000412080_00417_38547_7724.N1	15-JUL-2009 00:37:17	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	38547	No
9	GOM_TRA_1PNPDE20090715_004013_000000532080_00417_38547_7725.N1	15-JUL-2009 00:40:13	Bright	52.500	79	26Bet Per	2.3100	13100.	105	38547	No
10	GOM_TRA_1PNPDE20090715_005326_000000622080_00417_38547_7726.N1	15-JUL-2009 00:53:26	Dark	61.500	94	92Alp Cet	2.5260	3100.0	123	38547	No

11	GOM_TRA_1PNPDE20090715_011430_000000592080_00418_38548_7857.N1	15-JUL-2009 01:14:30	Dark	59.000	84	Alp Phe	2.3970	4500.0	118	38548	No
12	GOM_TRA_1PNPDE20090715_012021_000000662080_00418_38548_7858.N1	15-JUL-2009 01:20:21	Straylight	65.500	63	Bet Gru	2.1500	2800.0	131	38548	No
13	GOM_TRA_1PNPDE20090715_012159_000000502080_00418_38548_7859.N1	15-JUL-2009 01:21:59	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38548	No
14	GOM_TRA_1PNPDE20090715_012512_000000532080_00418_38548_7860.N1	15-JUL-2009 01:25:12	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38548	No
15	GOM_TRA_1PNPDE20090715_014421_000000492080_00418_38548_7861.N1	15-JUL-2009 01:44:21	Bright	48.500	11	53Alp Aql	0.76500	8000.0	97	38548	No
16	GOM_TRA_1PNPDE20090715_015534_000000392080_00418_38548_7862.N1	15-JUL-2009 01:55:34	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	38548	No
17	GOM_TRA_1PNPDE20090715_015759_000000512080_00418_38548_7863.N1	15-JUL-2009 01:57:59	Bright	51.000	19	50Alp Cyg	1.2460	10500.	102	38548	No
18	GOM_TRA_1PNPDE20090715_020247_000000402080_00418_38548_7864.N1	15-JUL-2009 02:02:47	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38548	No
19	GOM_TRA_1PNPDE20090715_021015_000000492080_00418_38548_7865.N1	15-JUL-2009 02:10:15	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	38548	No
20	GOM_TRA_1PNPDE20090715_021235_000000492080_00418_38548_7866.N1	15-JUL-2009 02:12:35	Bright	49.000	110	37Del Cas	2.6780	8900.0	98	38548	No
21	GOM_TRA_1PNPDE20090715_021633_000000522080_00418_38548_8030.N1	15-JUL-2009 02:16:33	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	38548	No
22	GOM_TRA_1PNPDE20090715_021753_000000422080_00418_38548_8031.N1	15-JUL-2009 02:17:53	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	38548	No
23	GOM_TRA_1PNPDE20090715_022048_000000472080_00418_38548_8032.N1	15-JUL-2009 02:20:48	Bright	47.000	79	26Bet Per	2.3100	13100.	94	38548	No
24	GOM_TRA_1PNPDE20090715_023402_000000612080_00418_38548_8033.N1	15-JUL-2009 02:34:02	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38548	No
25	GOM_TRA_1PNPDE20090715_025507_000000522080_00419_38549_8034.N1	15-JUL-2009 02:55:07	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38549	No
26	GOM_TRA_1PNPDE20090715_030058_000000632080_00419_38549_8035.N1	15-JUL-2009 03:00:58	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	38549	No
27	GOM_TRA_1PNPDE20090715_030236_000000502080_00419_38549_8036.N1	15-JUL-2009 03:02:36	Straylight	50.000	31	Alp Gru	1.7340	15200.	100	38549	No
28	GOM_TRA_1PNPDE20090715_030548_000000522080_00419_38549_8037.N1	15-JUL-2009 03:05:48	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38549	No
29	GOM_TRA_1PNPDE20090715_032457_000000502080_00419_38549_8038.N1	15-JUL-2009 03:24:57	Bright	49.500	11	53Alp Aql	0.76500	8000.0	99	38549	No
30	GOM_TRA_1PNPDE20090715_033610_000000432080_00419_38549_8039.N1	15-JUL-2009 03:36:10	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	38549	No
31	GOM_TRA_1PNPDE20090715_033834_000000452080_00419_38549_8040.N1	15-JUL-2009 03:38:34	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38549	No
32	GOM_TRA_1PNPDE20090715_034322_000000412080_00419_38549_8041.N1	15-JUL-2009 03:43:22	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38549	No
33	GOM_TRA_1PNPDE20090715_035050_000000472080_00419_38549_8209.N1	15-JUL-2009 03:50:50	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	38549	No
34	GOM_TRA_1PNPDE20090715_035311_000000422080_00419_38549_8210.N1	15-JUL-2009 03:53:11	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	38549	No
35	GOM_TRA_1PNPDE20090715_035709_000000612080_00419_38549_8211.N1	15-JUL-2009 03:57:09	Bright	61.000	160	23Gam Per	2.9300	4700.0	122	38549	No
36	GOM_TRA_1PNPDE20090715_035829_000000462080_00419_38549_8212.N1	15-JUL-2009 03:58:29	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	38549	No
37	GOM_TRA_1PNPDE20090715_040125_000000482080_00419_38549_8213.N1	15-JUL-2009 04:01:25	Bright	47.500	79	26Bet Per	2.3100	13100.	95	38549	No
38	GOM_TRA_1PNPDE20090715_041439_000000582080_00419_38549_8214.N1	15-JUL-2009 04:14:39	Dark	58.000	94	92Alp Cet	2.5260	3100.0	116	38549	No
39	GOM_TRA_1PNPDE20090715_043544_000000572080_00420_38550_8215.N1	15-JUL-2009 04:35:44	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	38550	No
40	GOM_TRA_1PNPDE20090715_044135_000000532080_00420_38550_8216.N1	15-JUL-2009 04:41:35	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	38550	No
41	GOM_TRA_1PNPDE20090715_044312_000000492080_00420_38550_8217.N1	15-JUL-2009 04:43:12	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	38550	No
42	GOM_TRA_1PNPDE20090715_044625_000000522080_00420_38550_8218.N1	15-JUL-2009 04:46:25	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38550	No
43	GOM_TRA_1PNPDE20090715_050532_000000462080_00420_38550_8219.N1	15-JUL-2009 05:05:32	Bright	46.000	11	53Alp Aql	0.76500	8000.0	92	38550	No
44	GOM_TRA_1PNPDE20090715_051645_000000422080_00420_38550_8220.N1	15-JUL-2009 05:16:45	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38550	No
45	GOM_TRA_1PNPDE20090715_051909_000000522080_00420_38550_8221.N1	15-JUL-2009 05:19:09	Bright	51.500	19	50Alp Cyg	1.2460	10500.	103	38550	No
46	GOM_TRA_1PNPDE20090715_052358_000000462080_00420_38550_8222.N1	15-JUL-2009 05:23:58	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	38550	No
47	GOM_TRA_1PNPDE20090715_053125_000000502080_00420_38550_8504.N1	15-JUL-2009 05:31:25	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38550	No
48	GOM_TRA_1PNPDE20090715_053346_000000652080_00420_38550_8505.N1	15-JUL-2009 05:33:46	Bright	64.500	110	37Del Cas	2.6780	8900.0	129	38550	No
49	GOM_TRA_1PNPDE20090715_053745_000000412080_00420_38550_8506.N1	15-JUL-2009 05:37:45	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38550	No
50	GOM_TRA_1PNPDE20090715_053905_000000432080_00420_38550_8507.N1	15-JUL-2009 05:39:05	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	38550	No
51	GOM_TRA_1PNPDE20090715_054200_000000482080_00420_38550_8508.N1	15-JUL-2009 05:42:00	Bright	48.000	79	26Bet Per	2.3100	13100.	96	38550	No
52	GOM_TRA_1PNPDE20090715_055516_000000612080_00420_38550_8509.N1	15-JUL-2009 05:55:16	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38550	No
53	GOM_TRA_1PNPDE20090715_061621_000000512080_00421_38551_8510.N1	15-JUL-2009 06:16:21	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38551	No
54	GOM_TRA_1PNPDE20090715_062212_000000532080_00421_38551_8511.N1	15-JUL-2009 06:22:12	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	38551	No
55	GOM_TRA_1PNPDE20090715_062349_000000512080_00421_38551_8512.N1	15-JUL-2009 06:23:49	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	38551	No
56	GOM_TRA_1PNPDE20090715_062702_000000532080_00421_38551_8513.N1	15-JUL-2009 06:27:02	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	38551	No
57	GOM_TRA_1PNPDE20090715_064608_000000452080_00421_38551_8514.N1	15-JUL-2009 06:46:08	Bright	45.000	11	53Alp Aql	0.76500	8000.0	90	38551	No
58	GOM_TRA_1PNPDE20090715_065720_000000432080_00421_38551_8515.N1	15-JUL-2009 06:57:20	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	38551	No
59	GOM_TRA_1PNPDE20090715_065945_000000502080_00421_38551_8516.N1	15-JUL-2009 06:59:45	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38551	No
60	GOM_TRA_1PNPDE20090715_070433_000000442080_00421_38551_8517.N1	15-JUL-2009 07:04:33	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38551	No
61	GOM_TRA_1PNPDE20090715_071200_000000562080_00421_38551_8518.N1	15-JUL-2009 07:12:00	Bright	55.500	74	11Bet Cas	2.2680	6600.0	111	38551	No
62	GOM_TRA_1PNPDE20090715_195155_000000522080_00429_38559_8946.N1	15-JUL-2009 19:51:55	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38559	No
63	GOM_TRA_1PNPDE20090715_201052_000000472080_00429_38559_8947.N1	15-JUL-2009 20:10:52	Bright	47.000	11	53Alp Aql	0.76500	8000.0	94	38559	No
64	GOM_TRA_1PNPDE20090715_202204_000000592080_00429_38559_8948.N1	15-JUL-2009 20:22:04	Bright	59.000	144	18Del Cyg	2.8600	11000.	118	38559	No
65	GOM_TRA_1PNPDE20090715_202425_000000522080_00429_38559_8949.N1	15-JUL-2009 20:24:25	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	38559	No
66	GOM_TRA_1PNPDE20090715_202916_000000452080_00429_38559_8950.N1	15-JUL-2009 20:29:16	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	38559	No
67	GOM_TRA_1PNPDE20090715_203642_000000742080_00429_38559_8951.N1	15-JUL-2009 20:36:42	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38559	No
68	GOM_TRA_1PNPDE20090715_203838_000000742080_00429_38559_8952.N1	15-JUL-2009 20:38:38	Bright	74.000	68	18Alp Cas	2.2250	4500.0	148	38559	No
69	GOM_TRA_1PNPDE20090715_204306_000000412080_00429_38559_8953.N1	15-JUL-2009 20:43:06	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38559	No

70	GOM_TRA_1PNPDE20090715_204427_000000422080_00429_38559_8954.N1	15-JUL-2009 20:44:27	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	38559	No
71	GOM_TRA_1PNPDE20090715_204723_000000502080_00429_38559_8955.N1	15-JUL-2009 20:47:23	Bright	50.000	79	26Bet Per	2.3100	13100.	100	38559	No
72	GOM_TRA_1PNPDE20090715_205250_000000432080_00429_38559_8956.N1	15-JUL-2009 20:52:50	Twilight	42.500	146	25Eta Tau	2.8730	15200.	85	38559	No
73	GOM_TRA_1PNPDE20090715_210046_000000612080_00429_38559_9105.N1	15-JUL-2009 21:00:46	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38559	No
74	GOM_TRA_1PNPDE20090715_212155_000000542080_00430_38560_9106.N1	15-JUL-2009 21:21:55	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38560	No
75	GOM_TRA_1PNPDE20090715_212743_000000652080_00430_38560_9107.N1	15-JUL-2009 21:27:43	Straylight	64.500	63	Bet Gru	2.1500	2800.0	129	38560	No
76	GOM_TRA_1PNPDE20090715_212919_000000592080_00430_38560_9108.N1	15-JUL-2009 21:29:19	Straylight	58.500	31	Alp Gru	1.7340	15200.	117	38560	No
77	GOM_TRA_1PNPDE20090715_213232_000000532080_00430_38560_9109.N1	15-JUL-2009 21:32:32	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38560	No
78	GOM_TRA_1PNPDE20090715_215128_000000492080_00430_38560_9110.N1	15-JUL-2009 21:51:28	Bright	48.500	11	53Alp Aql	0.76500	8000.0	97	38560	No
79	GOM_TRA_1PNPDE20090715_220239_000000432080_00430_38560_9111.N1	15-JUL-2009 22:02:39	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	38560	No
80	GOM_TRA_1PNPDE20090715_220500_000000472080_00430_38560_9112.N1	15-JUL-2009 22:05:00	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	38560	No
81	GOM_TRA_1PNPDE20090715_220951_000000402080_00430_38560_9113.N1	15-JUL-2009 22:09:51	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38560	No
82	GOM_TRA_1PNPDE20090715_221717_000000502080_00430_38560_9114.N1	15-JUL-2009 22:17:17	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38560	No
83	GOM_TRA_1PNPDE20090715_221913_000000562080_00430_38560_9115.N1	15-JUL-2009 22:19:13	Bright	55.500	68	18Alp Cas	2.2250	4500.0	111	38560	No
84	GOM_TRA_1PNPDE20090715_222342_000000412080_00430_38560_9116.N1	15-JUL-2009 22:23:42	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38560	No
85	GOM_TRA_1PNPDE20090715_222503_000000442080_00430_38560_9117.N1	15-JUL-2009 22:25:03	Bright	44.000	35	33Alp Per	1.7950	6250.0	88	38560	No
86	GOM_TRA_1PNPDE20090715_222759_000000462080_00430_38560_9118.N1	15-JUL-2009 22:27:59	Bright	46.000	79	26Bet Per	2.3100	13100.	92	38560	No
87	GOM_TRA_1PNPDE20090715_223326_000000422080_00430_38560_9119.N1	15-JUL-2009 22:33:26	Twilight	42.000	146	25Eta Tau	2.8730	15200.	84	38560	No
88	GOM_TRA_1PNPDE20090715_224123_000000692080_00430_38560_9120.N1	15-JUL-2009 22:41:23	Dark	69.000	94	92Alp Cet	2.5260	3100.0	138	38560	No
89	GOM_TRA_1PNPDE20090715_230232_000000562080_00431_38561_9247.N1	15-JUL-2009 23:02:32	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	38561	No
90	GOM_TRA_1PNPDE20090715_230819_000000572080_00431_38561_9248.N1	15-JUL-2009 23:08:19	Straylight	57.000	63	Bet Gru	2.1500	2800.0	114	38561	No
91	GOM_TRA_1PNPDE20090715_230955_000000472080_00431_38561_9249.N1	15-JUL-2009 23:09:55	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	38561	No
92	GOM_TRA_1PNPDE20090715_231309_000000512080_00431_38561_9250.N1	15-JUL-2009 23:13:09	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	38561	No
93	GOM_TRA_1PNPDE20090715_233203_000000482080_00431_38561_9251.N1	15-JUL-2009 23:32:03	Bright	47.500	11	53Alp Aql	0.76500	8000.0	95	38561	No
94	GOM_TRA_1PNPDE20090715_234315_000000442080_00431_38561_9252.N1	15-JUL-2009 23:43:15	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38561	No
95	GOM_TRA_1PNPDE20090715_234535_000000502080_00431_38561_9253.N1	15-JUL-2009 23:45:35	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38561	No
96	GOM_TRA_1PNPDE20090715_235026_000000402080_00431_38561_9254.N1	15-JUL-2009 23:50:26	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38561	No
97	GOM_TRA_1PNPDE20090715_235752_000000502080_00431_38561_9255.N1	15-JUL-2009 23:57:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38561	No
98	GOM_TRA_1PNPDE20090715_235948_000000512080_00431_38561_9256.N1	15-JUL-2009 23:59:48	Bright	51.000	68	18Alp Cas	2.2250	4500.0	102	38561	No

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





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

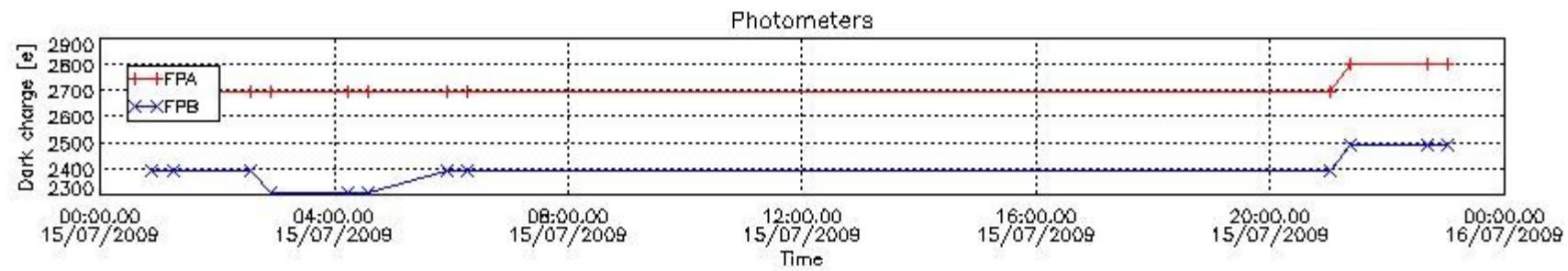
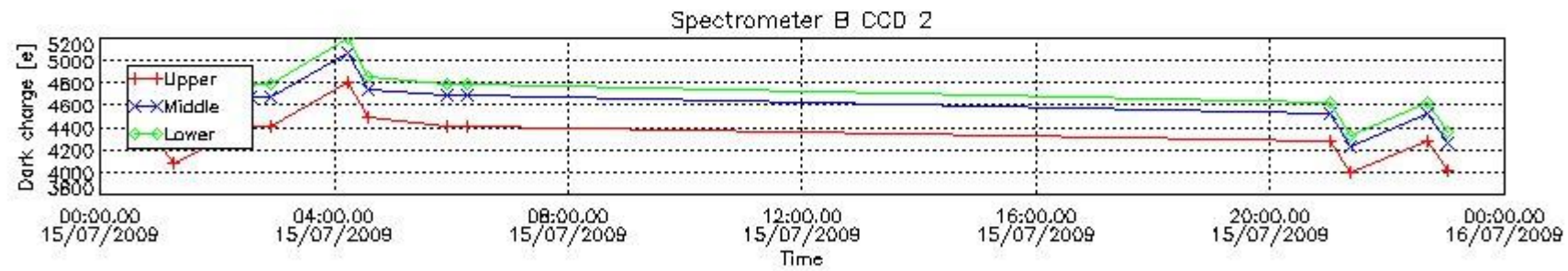
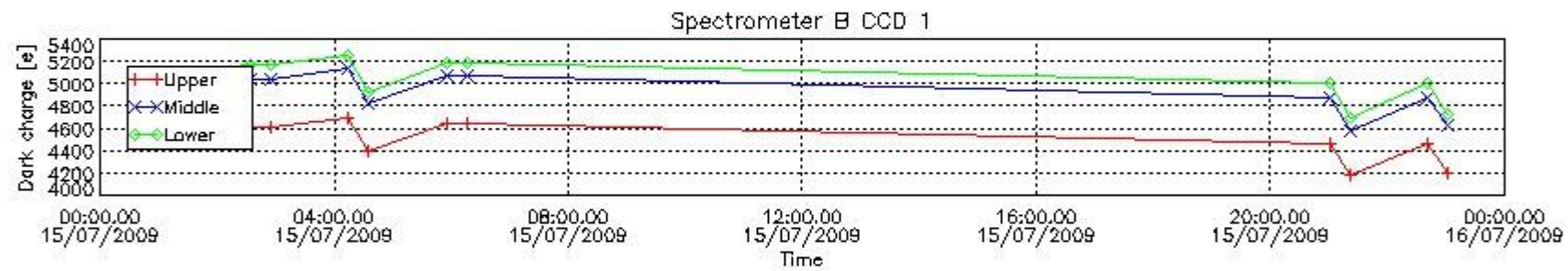
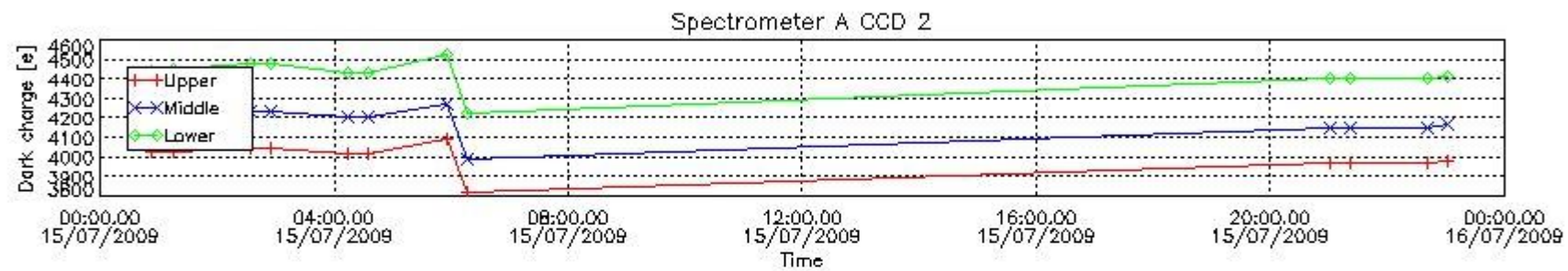
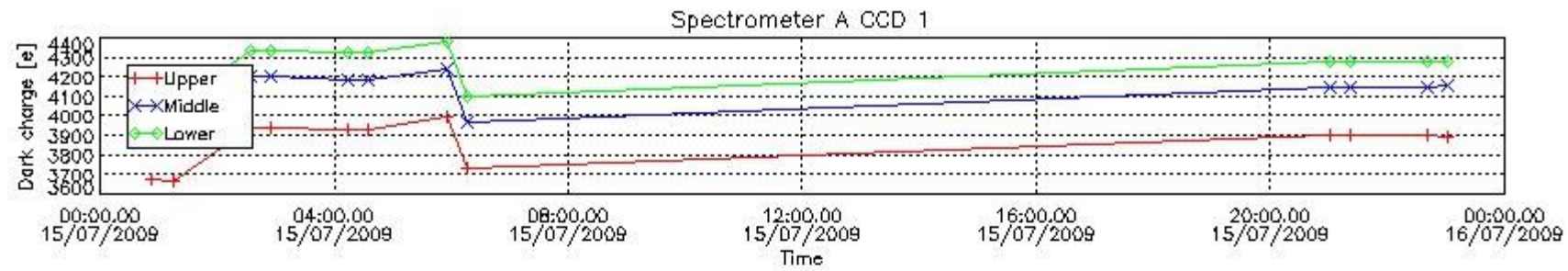
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090715_195155_000000522080_00429_38559_8946.N1	DC map used
GOM_TRA_1PNPDE20090715_201052_000000472080_00429_38559_8947.N1	DC map used
GOM_TRA_1PNPDE20090715_202204_000000592080_00429_38559_8948.N1	DC map used
GOM_TRA_1PNPDE20090715_202425_000000522080_00429_38559_8949.N1	DC map used
GOM_TRA_1PNPDE20090715_202916_000000452080_00429_38559_8950.N1	DC map used
GOM_TRA_1PNPDE20090715_203642_000000742080_00429_38559_8951.N1	DC map used
GOM_TRA_1PNPDE20090715_203838_000000742080_00429_38559_8952.N1	DC map used
GOM_TRA_1PNPDE20090715_204306_000000412080_00429_38559_8953.N1	DC map used
GOM_TRA_1PNPDE20090715_204427_000000422080_00429_38559_8954.N1	DC map used
GOM_TRA_1PNPDE20090715_204723_000000502080_00429_38559_8955.N1	DC map used
GOM_TRA_1PNPDE20090715_205250_000000432080_00429_38559_8956.N1	DC map used

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



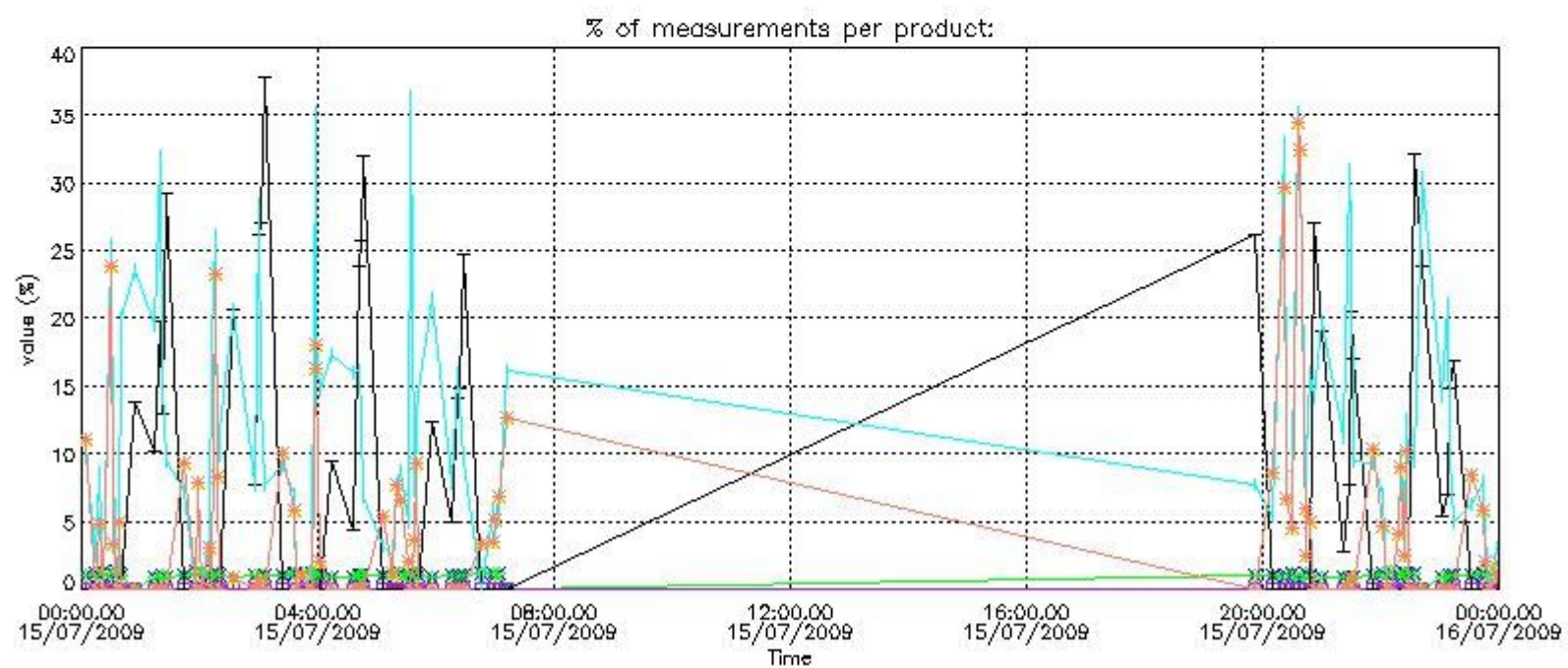
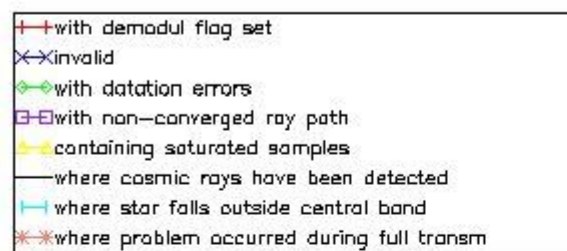
## 5. Demodulation flag and quality information monitoring

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:

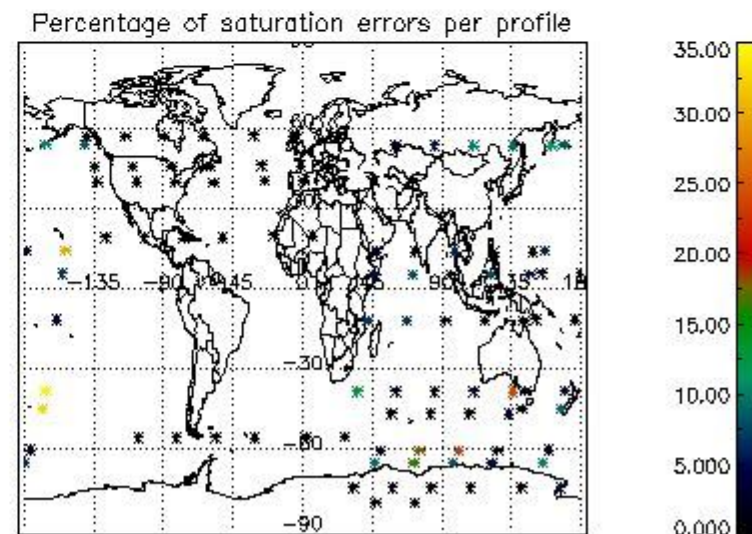
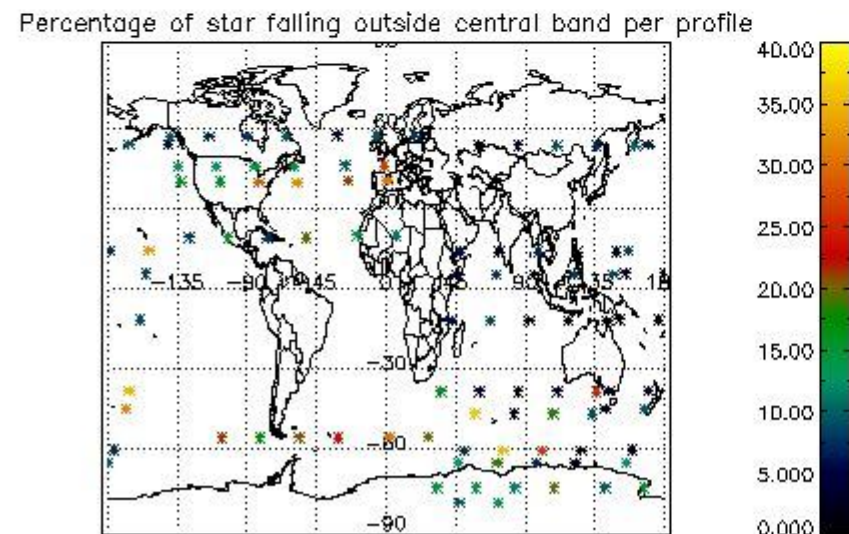
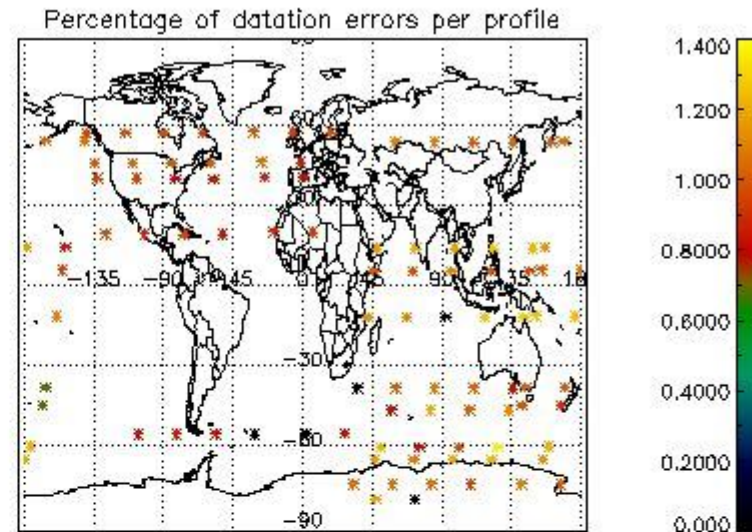
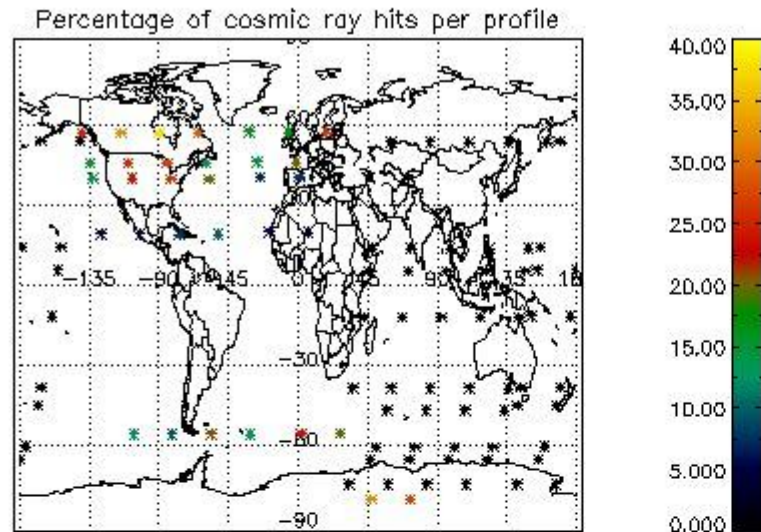
At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





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

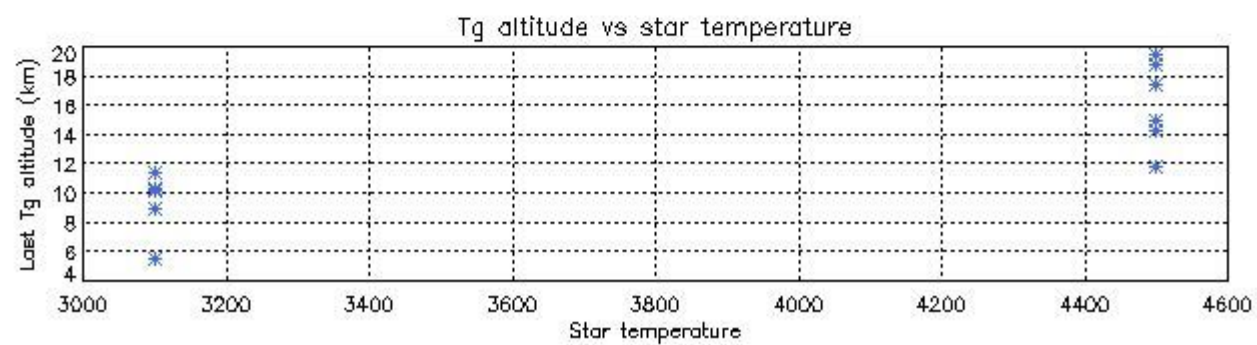
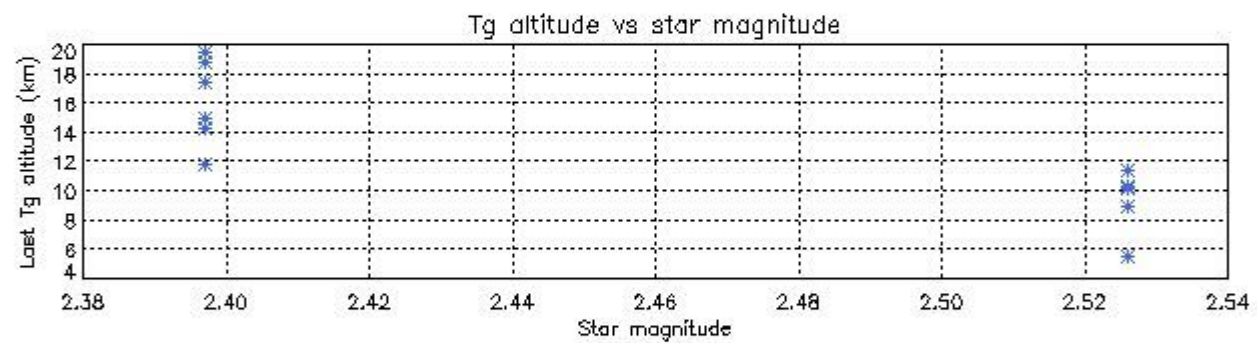
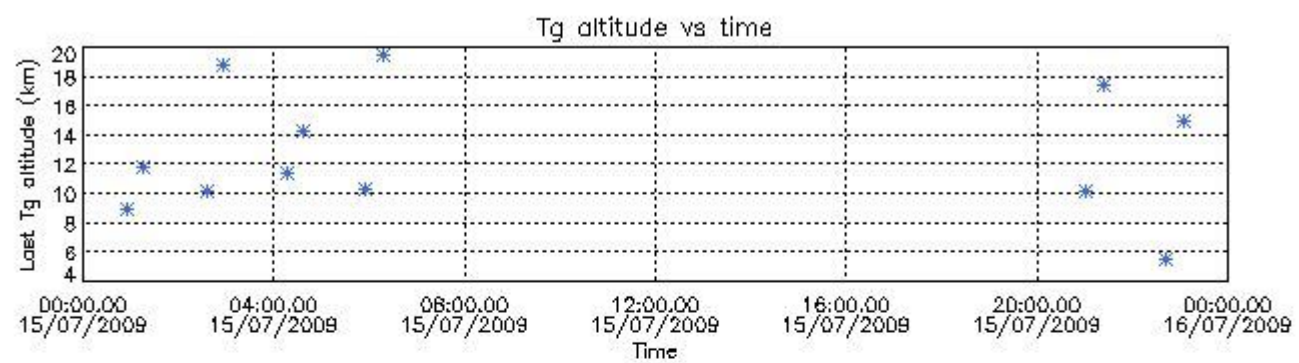
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.761	19.120	19.152
St. deviation:	4.2477	6.2904	0.46355
Maximum:	19.394	30.017	19.480
Minimum:	5.4951	3.0635	18.824
Number of data:	12.000	65.000	2.0000

### 6.2 Plot for DARK limb products

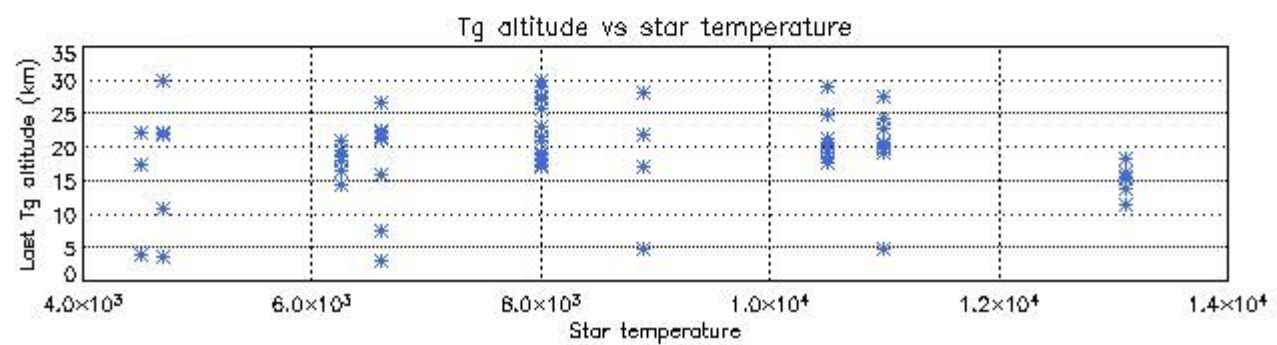
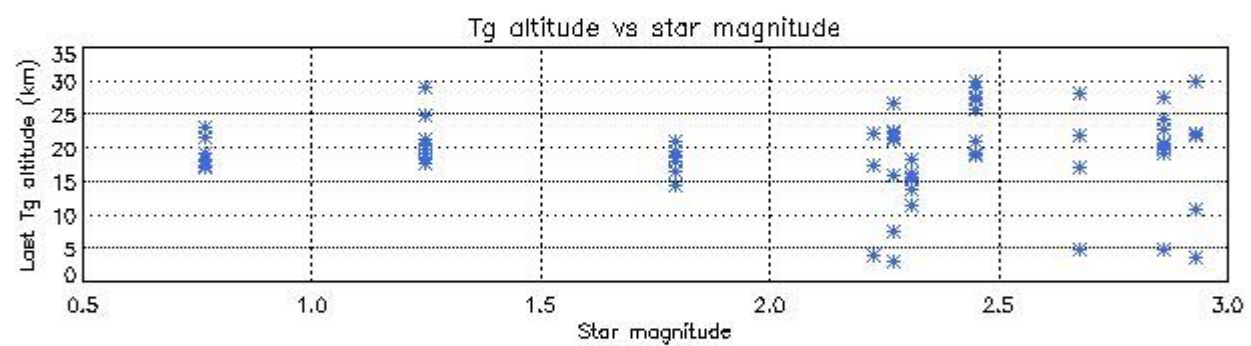
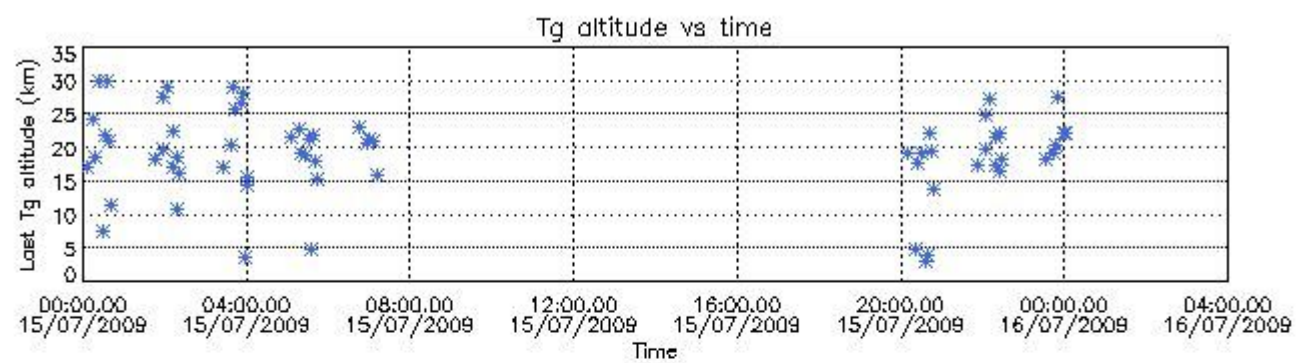


Tangent altitude at which the star is lost



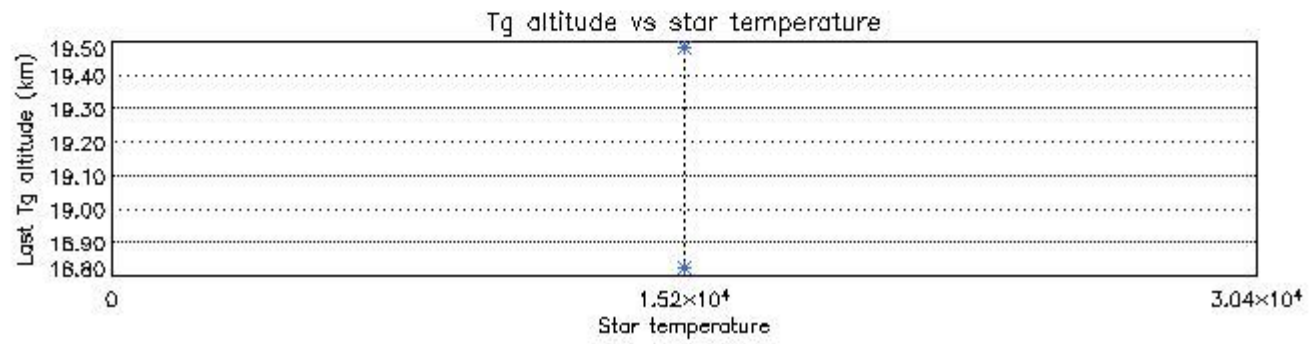
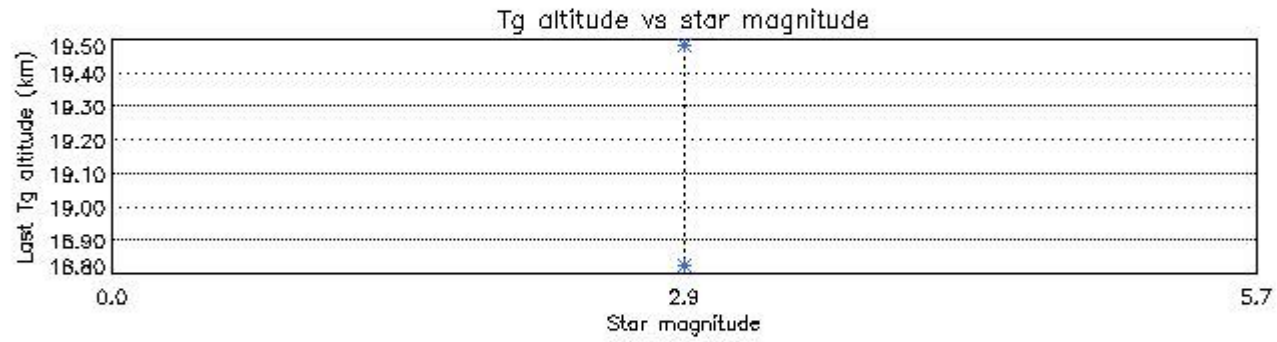
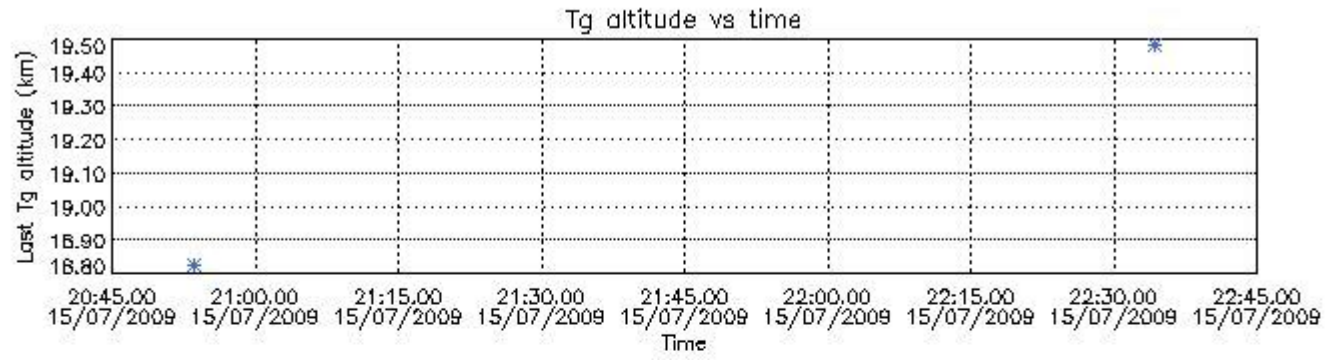
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost



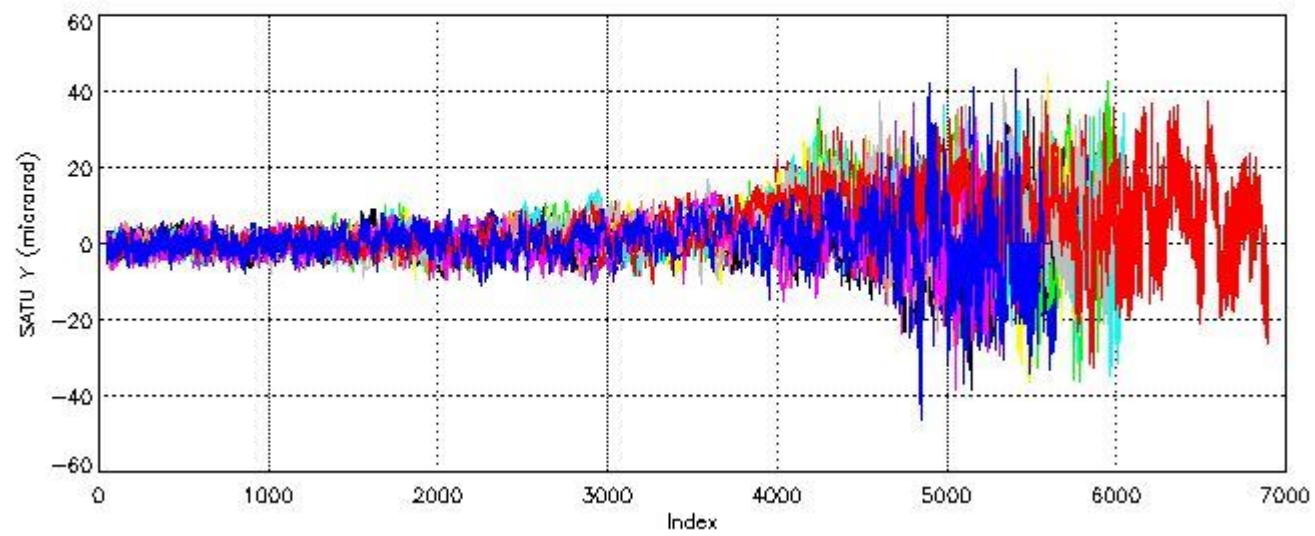
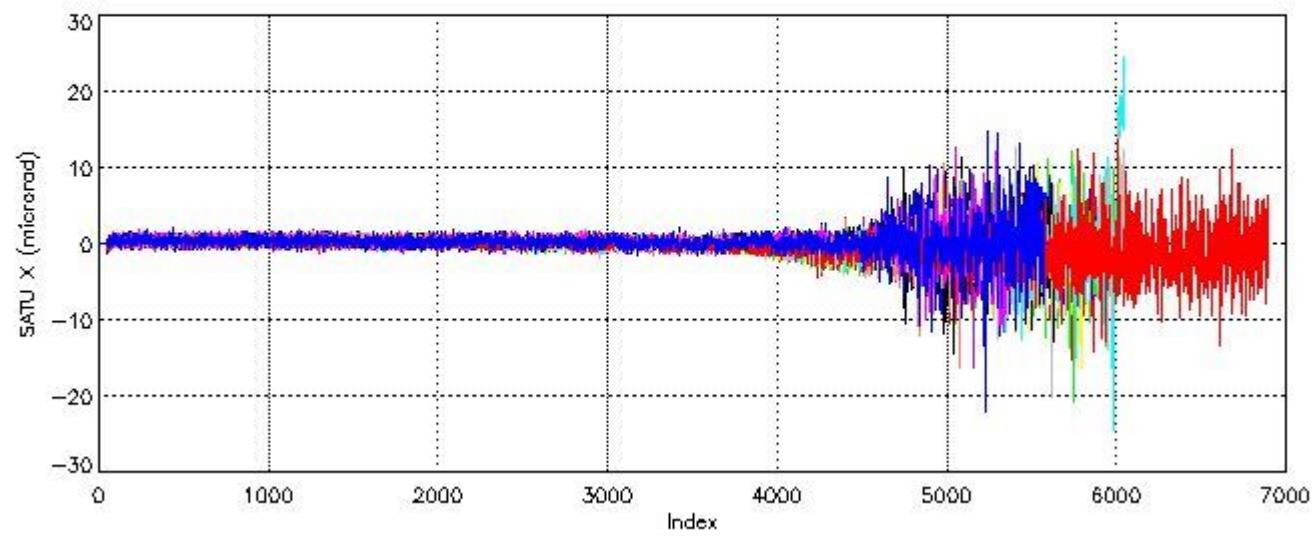
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.29845	-0.25356	0.24359	-0.20122
St. deviation:	0.37180	2.0556	0.81285	3.1622
Maximum:	2.0000	7.2000	7.0000	13.000
Minimum:	-1.2000	-8.0000	-6.0000	-14.300

Number of data:	14700.	14700.	69550.	69550.
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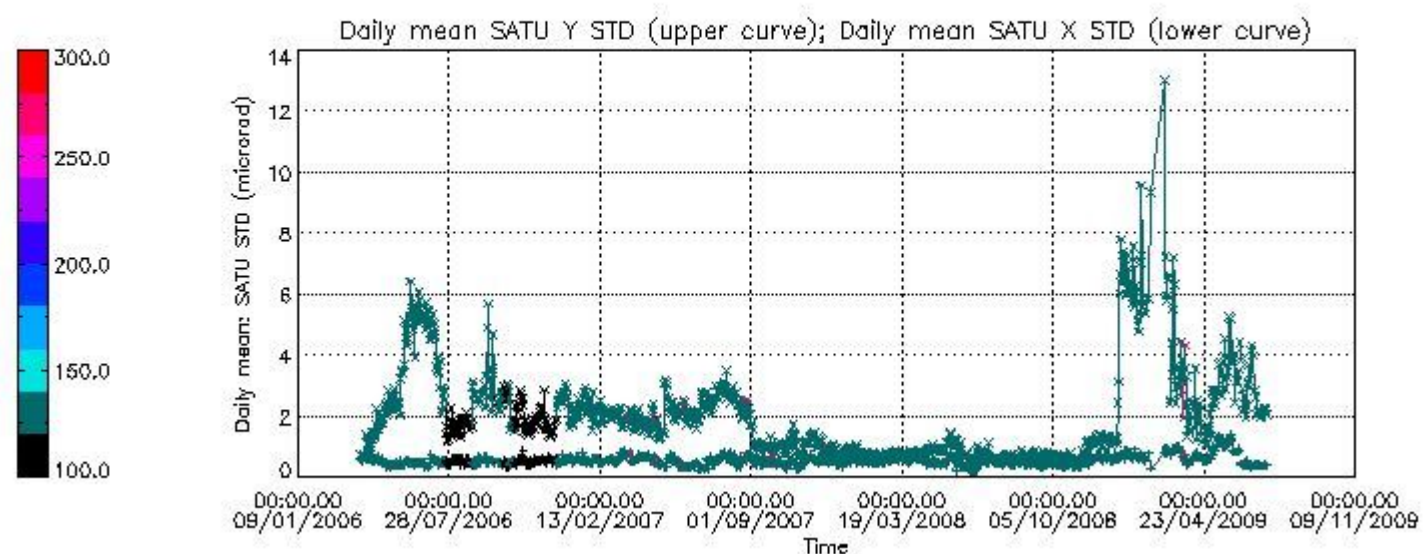
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

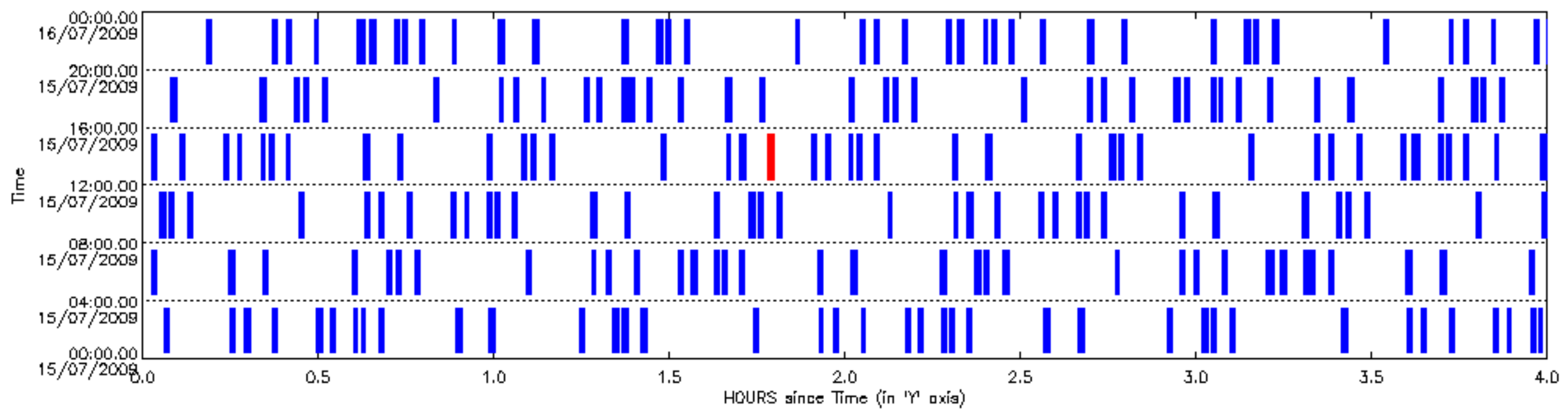
Lower curve: STD of SATU X axis



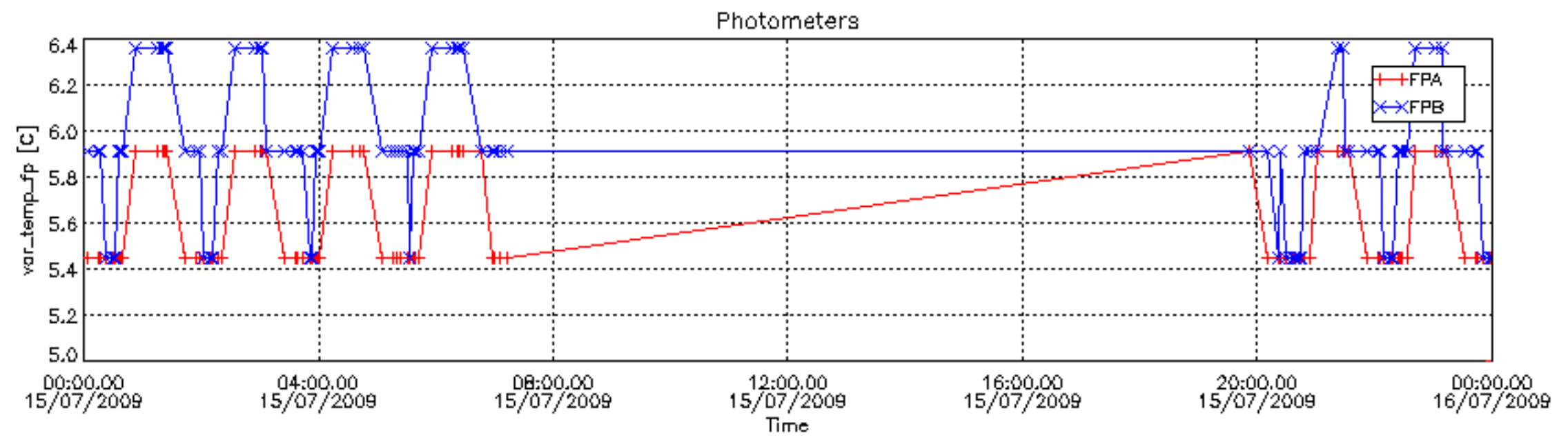
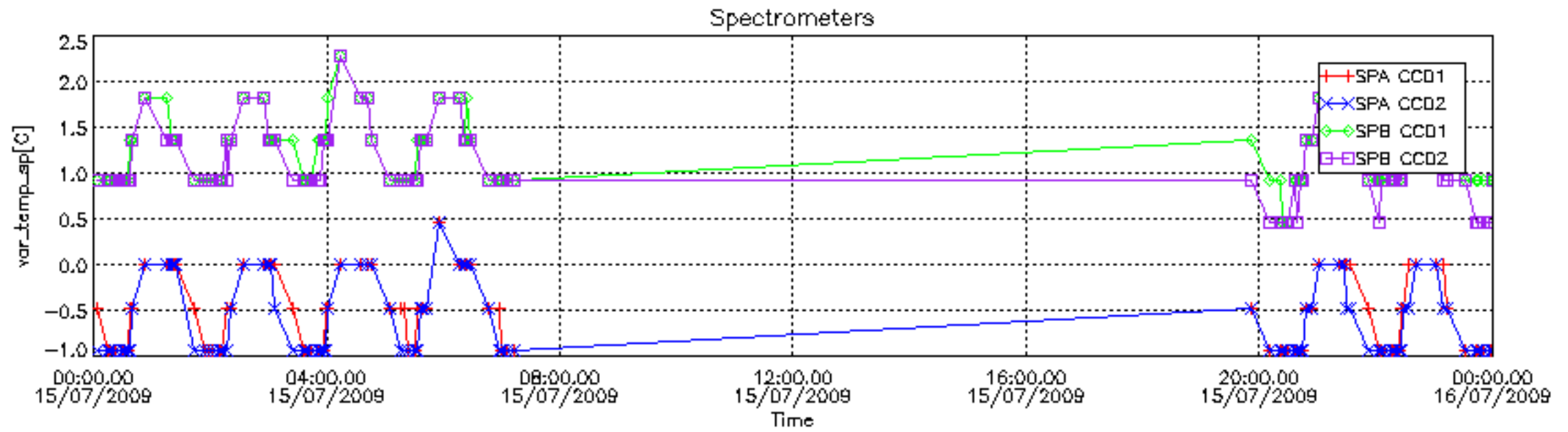
### 8. Auxiliary Data Files used for the production reported in section 2.4

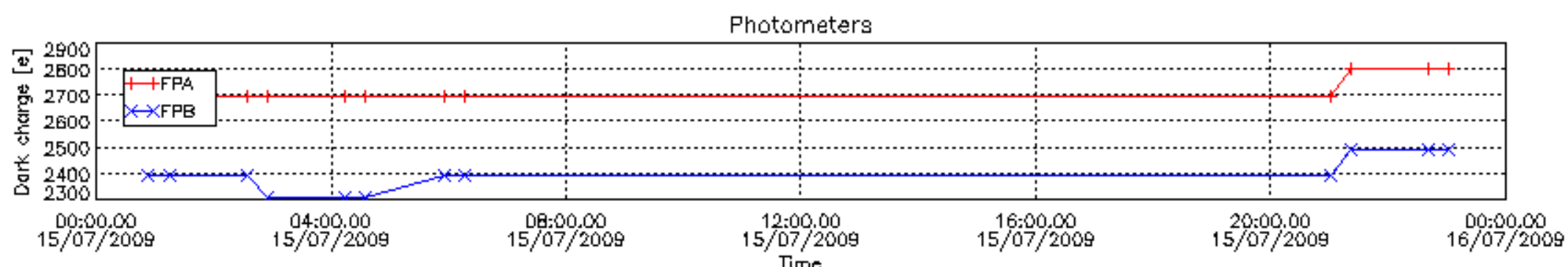
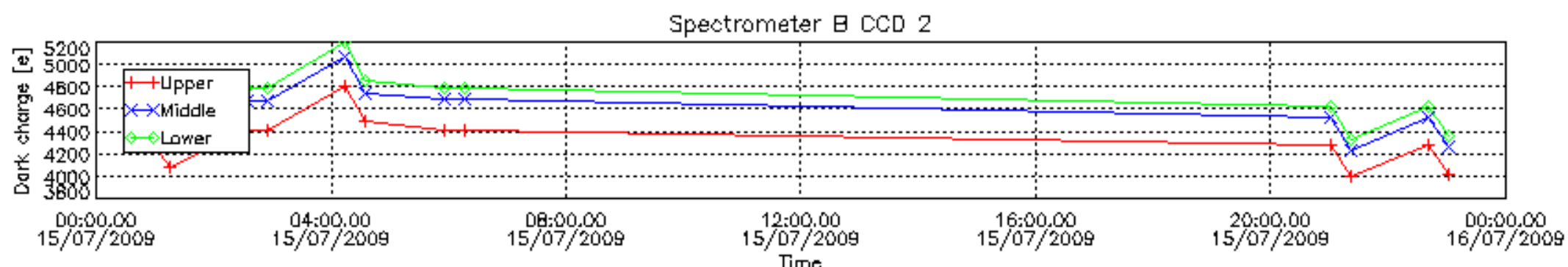
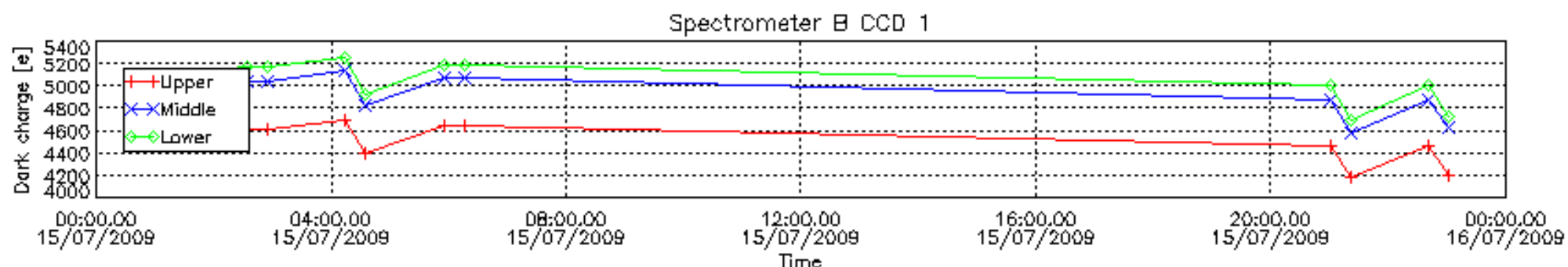
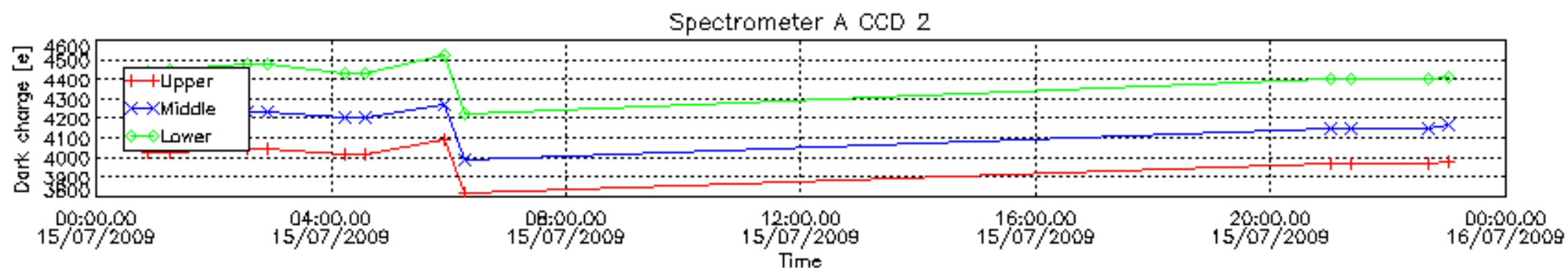
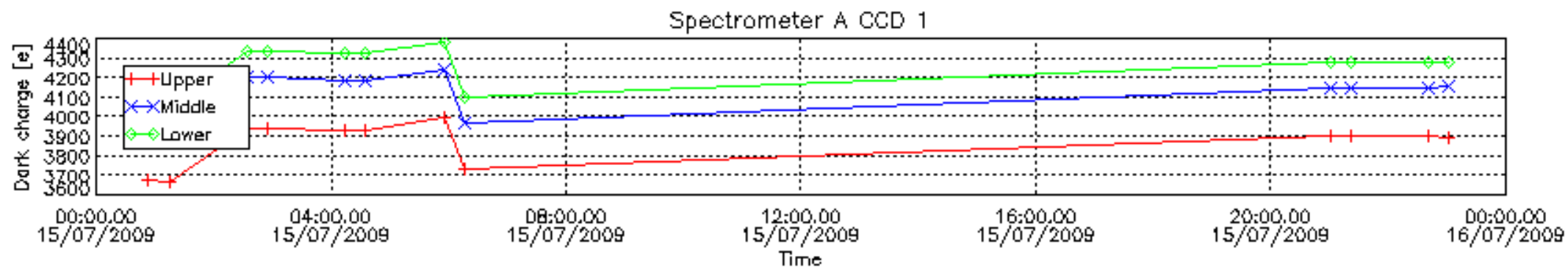
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-JUL-2009 00:03:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	15-JUL-2009 00:03:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-JUL-2009 00:03:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JUL-2009 00:03:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-JUL-2009 00:03:45
ECMWF_FILE	AUX_ECF_AXNECM20090714_064112_20090714_210000_20090715_090000	1	15-JUL-2009 00:03:45
ECMWF_FILE	AUX_ECF_AXNECM20090714_184111_20090715_030000_20090715_150000	33	15-JUL-2009 03:50:50
ECMWF_FILE	AUX_ECF_AXNECM20090715_064111_20090715_150000_20090716_030000	62	15-JUL-2009 19:51:55
ECMWF_FILE	AUX_ECF_AXNECM20090715_064112_20090715_210000_20090716_090000	73	15-JUL-2009 21:00:46
OPTIONAL_ECMWF_FILE	MISSING	1	15-JUL-2009 00:03:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_212923_000060572080_00415_38545_8353.N1	1	15-JUL-2009 00:03:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090714_231539_000057382080_00416_38546_8354.N1	11	15-JUL-2009 01:14:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090715_005117_000047822080_00417_38547_8355.N1	21	15-JUL-2009 02:16:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090715_021618_000051012080_00418_38548_8356.N1	33	15-JUL-2009 03:50:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090715_034637_000057382080_00419_38549_8357.N1	47	15-JUL-2009 05:31:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090715_194818_000038252080_00429_38559_8359.N1	62	15-JUL-2009 19:51:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090715_205722_000060572080_00429_38559_8360.N1	89	15-JUL-2009 23:02:32





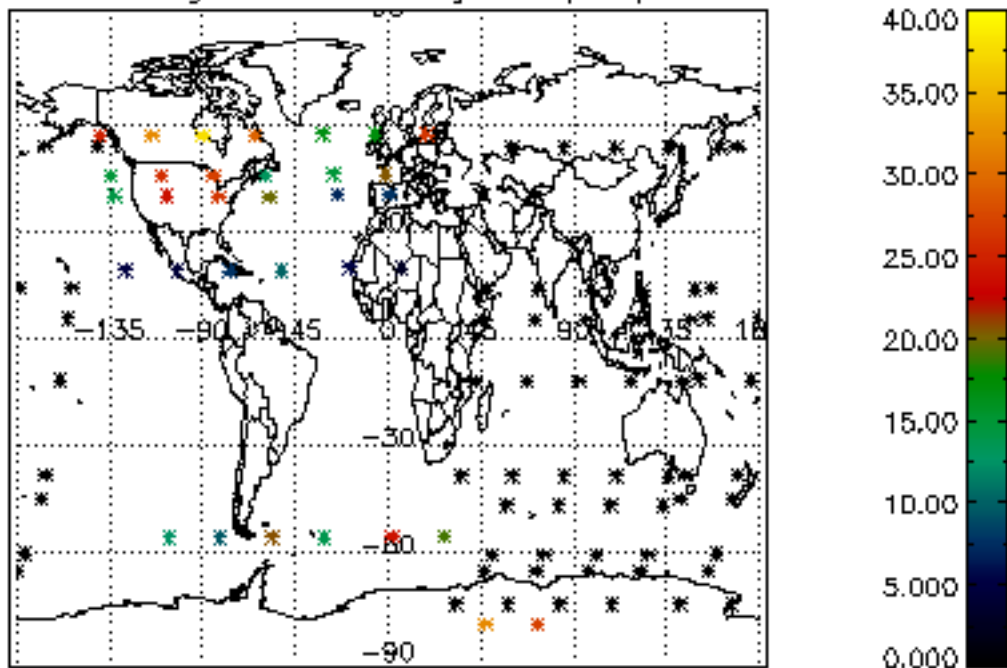




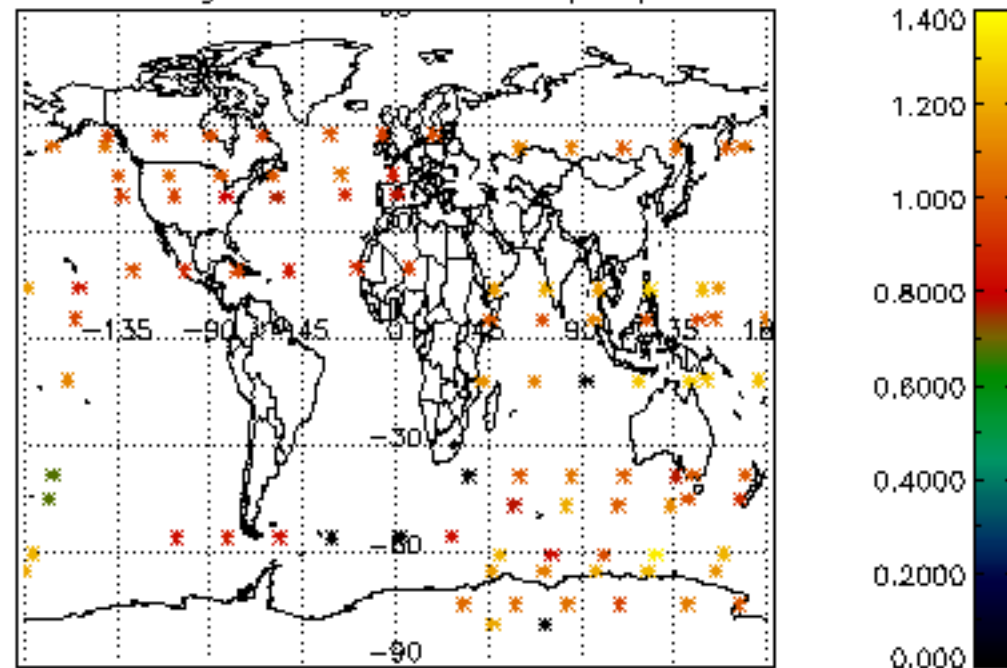




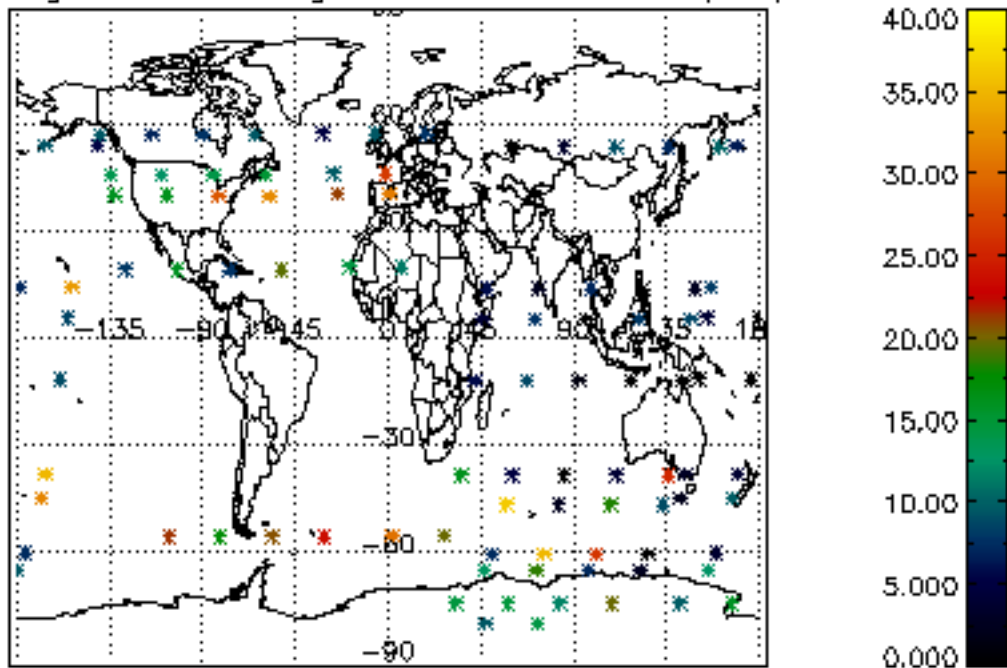
Percentage of cosmic ray hits per profile



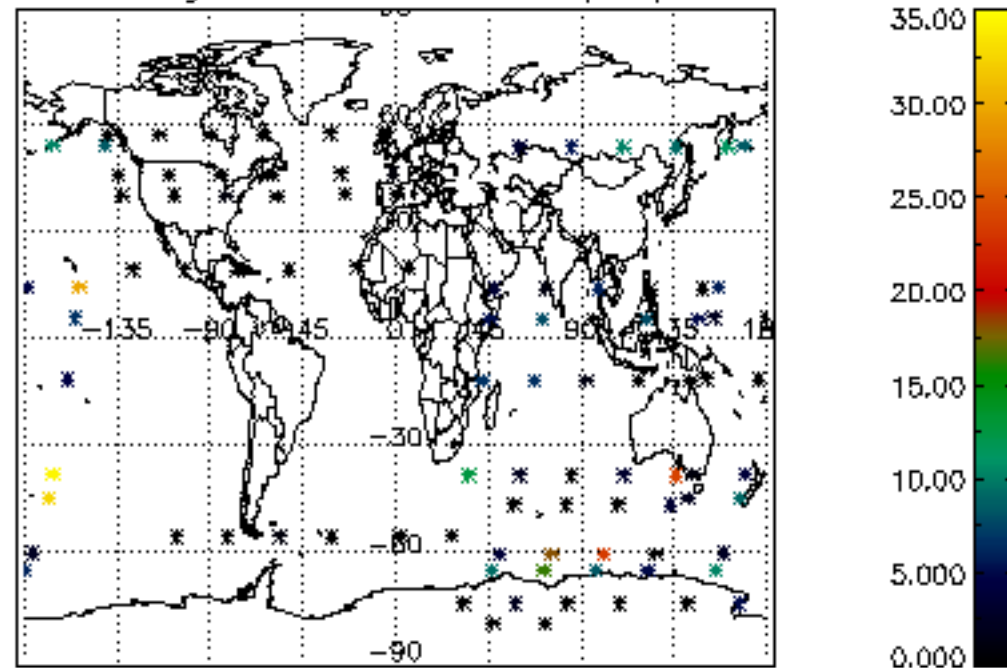
Percentage of datation errors per profile



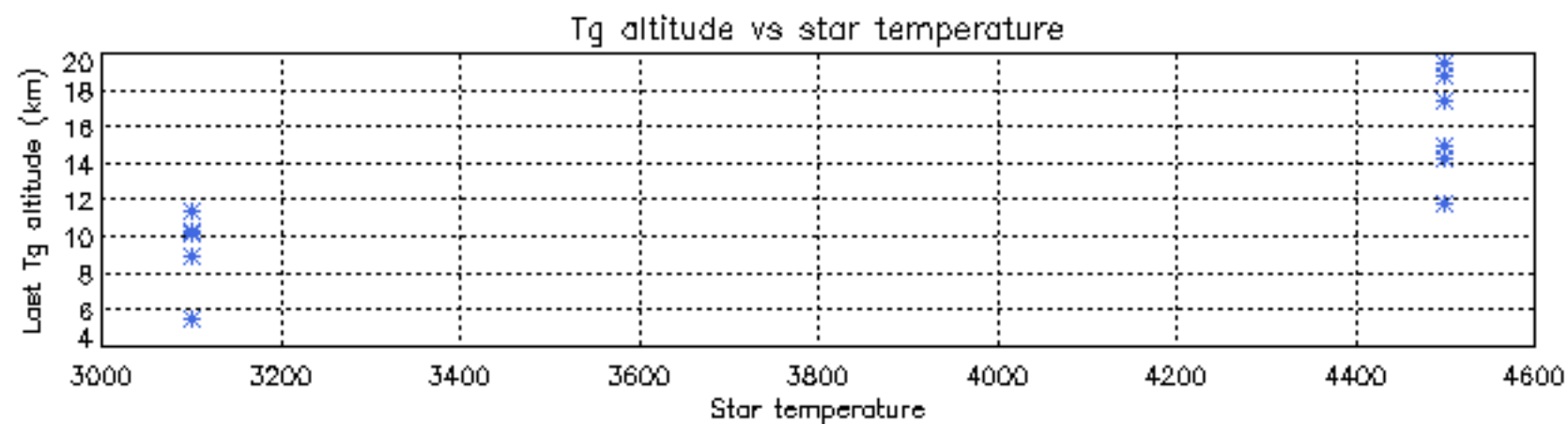
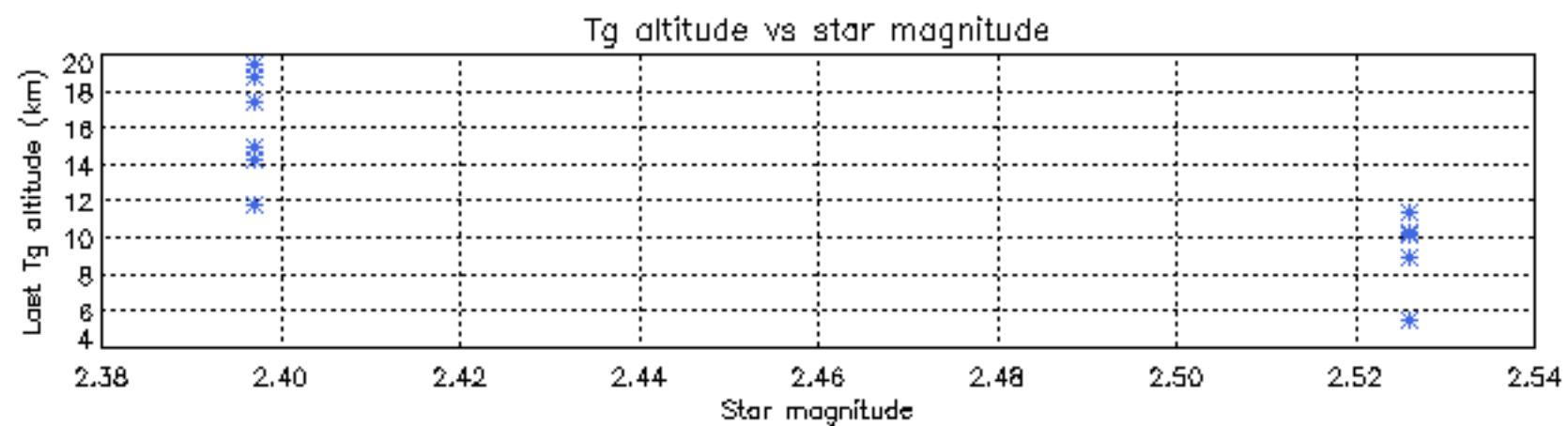
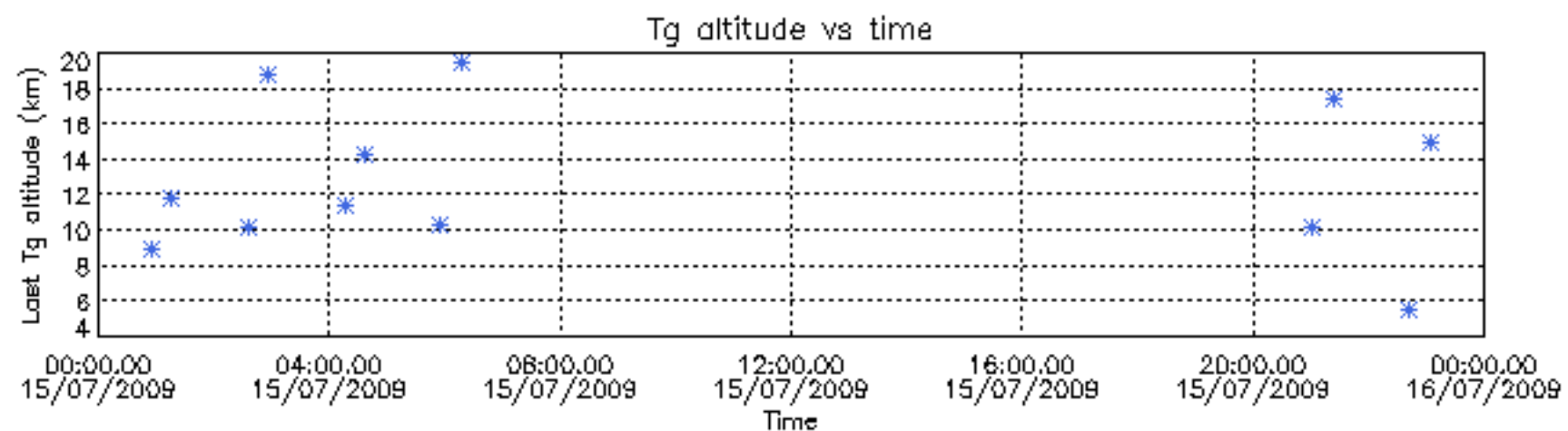
Percentage of star falling outside central band per profile



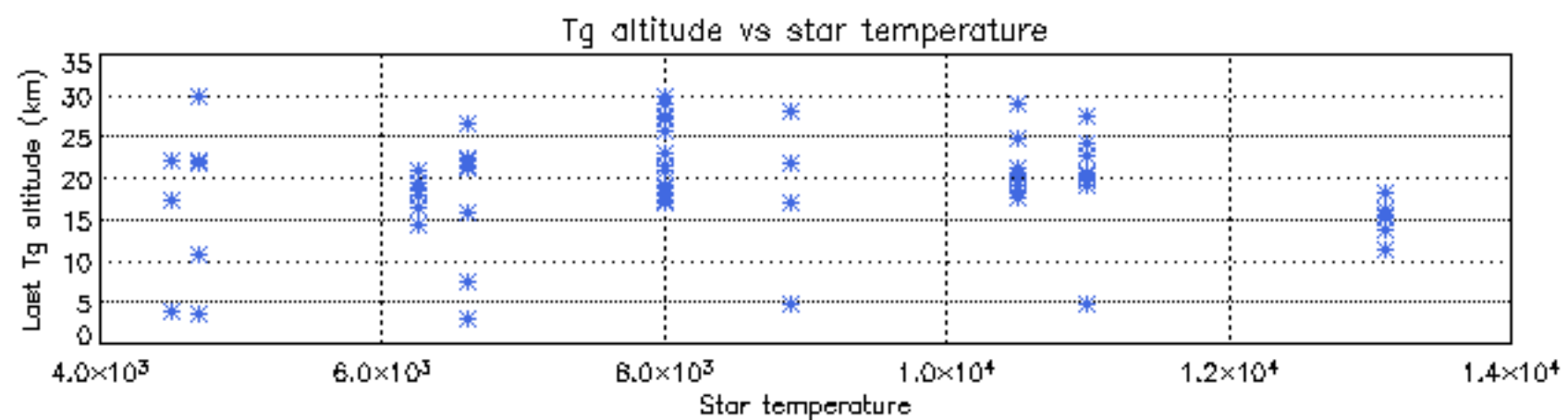
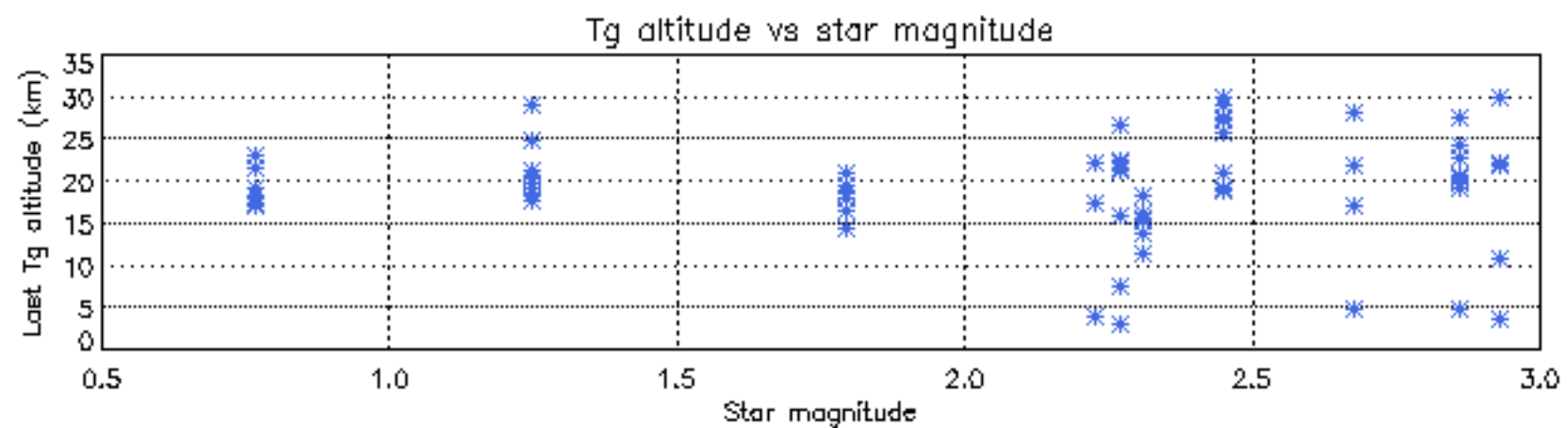
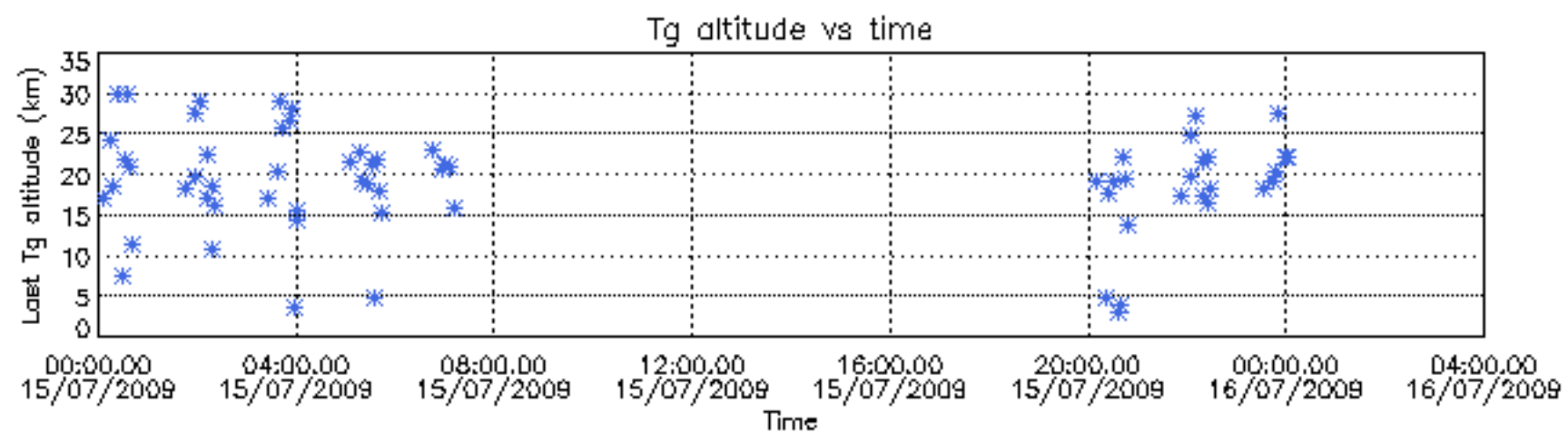
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

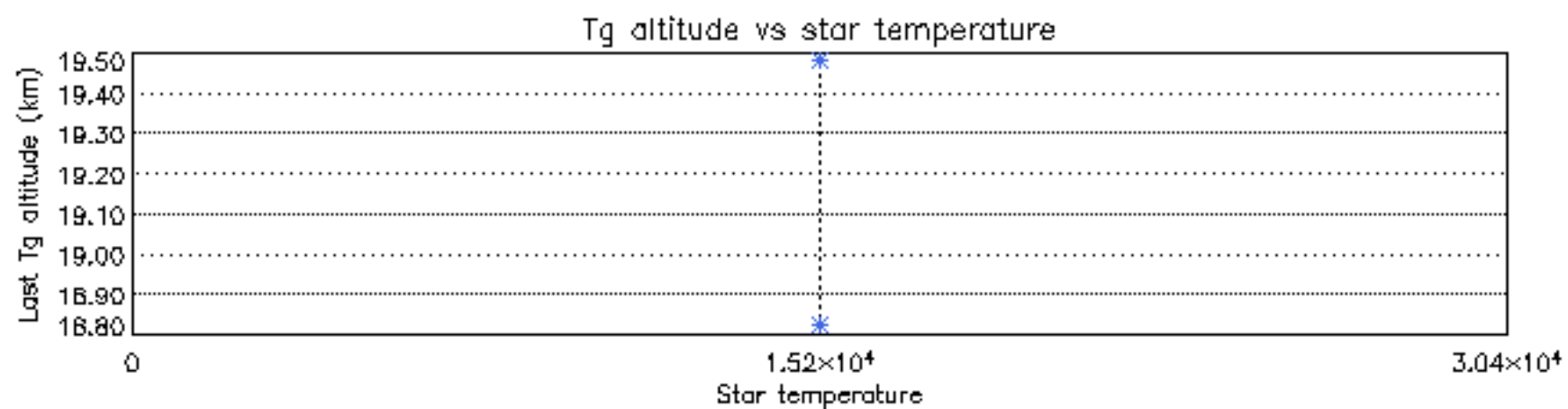
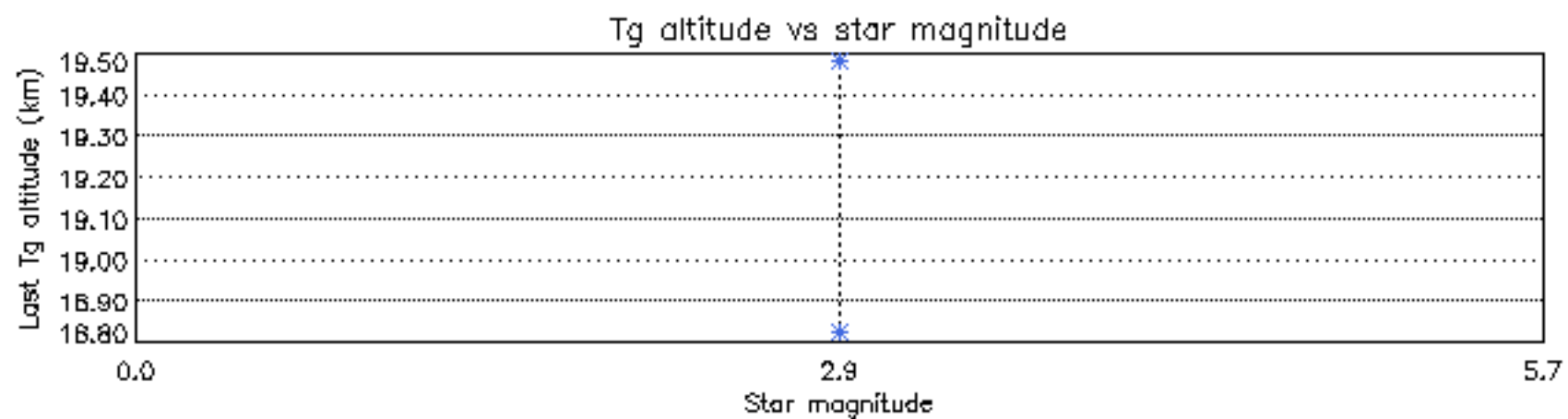
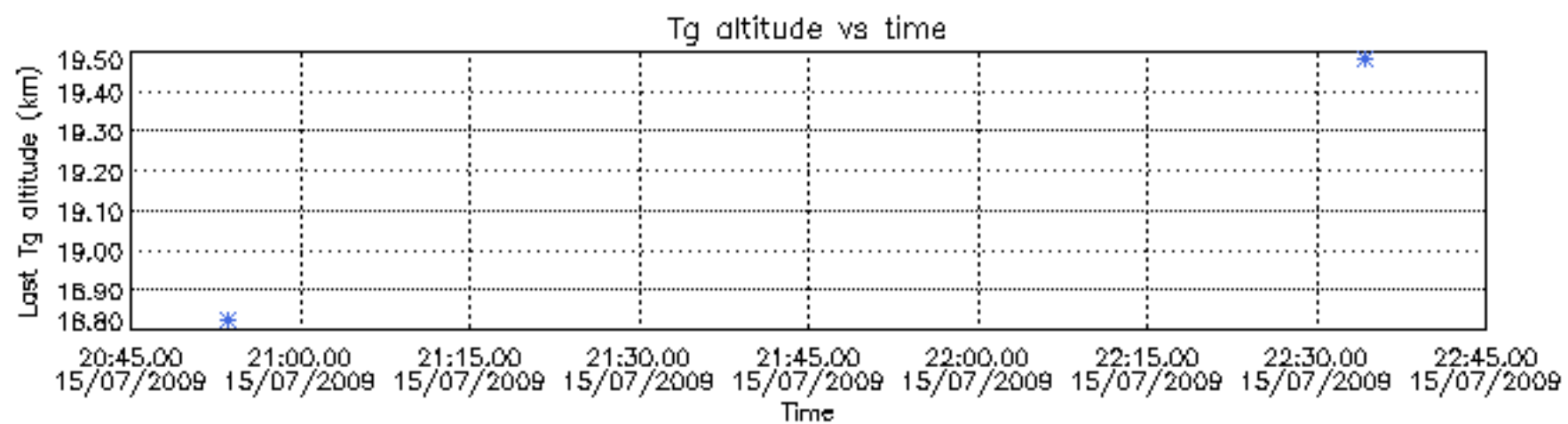


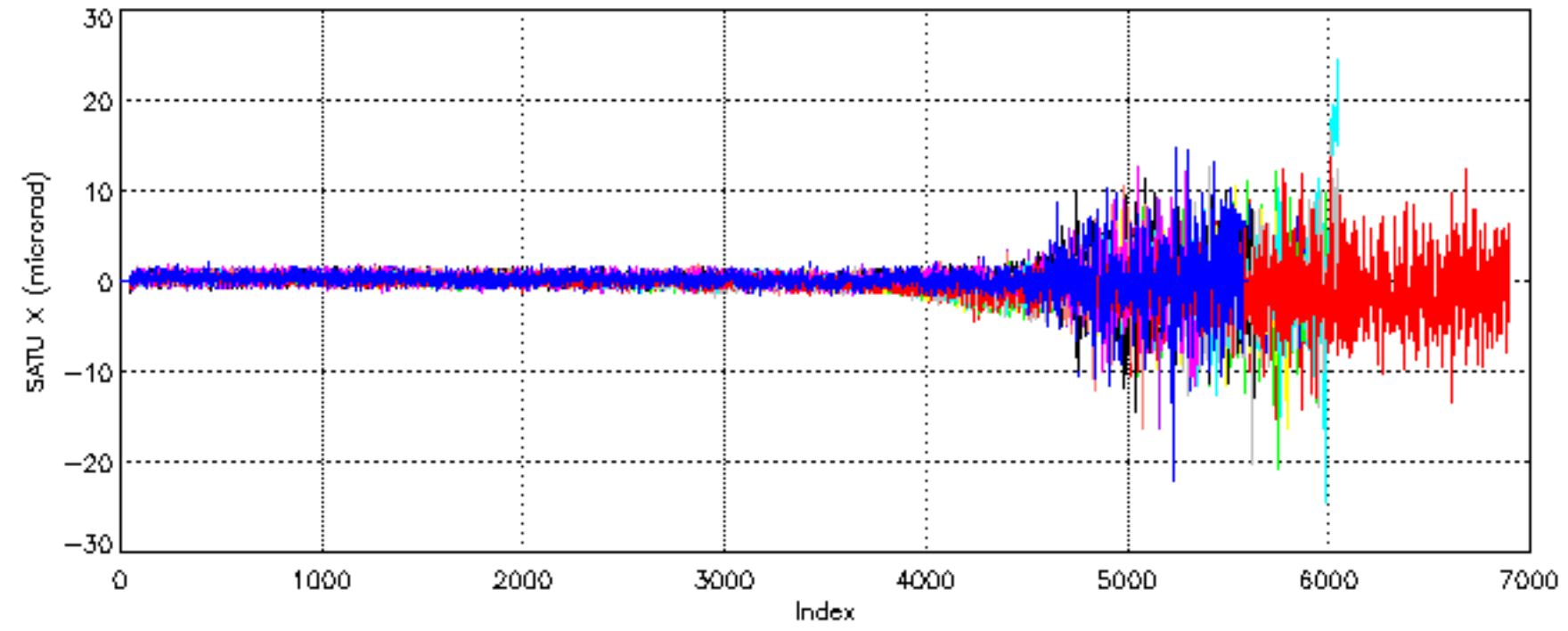
Tangent altitude at which the star is lost

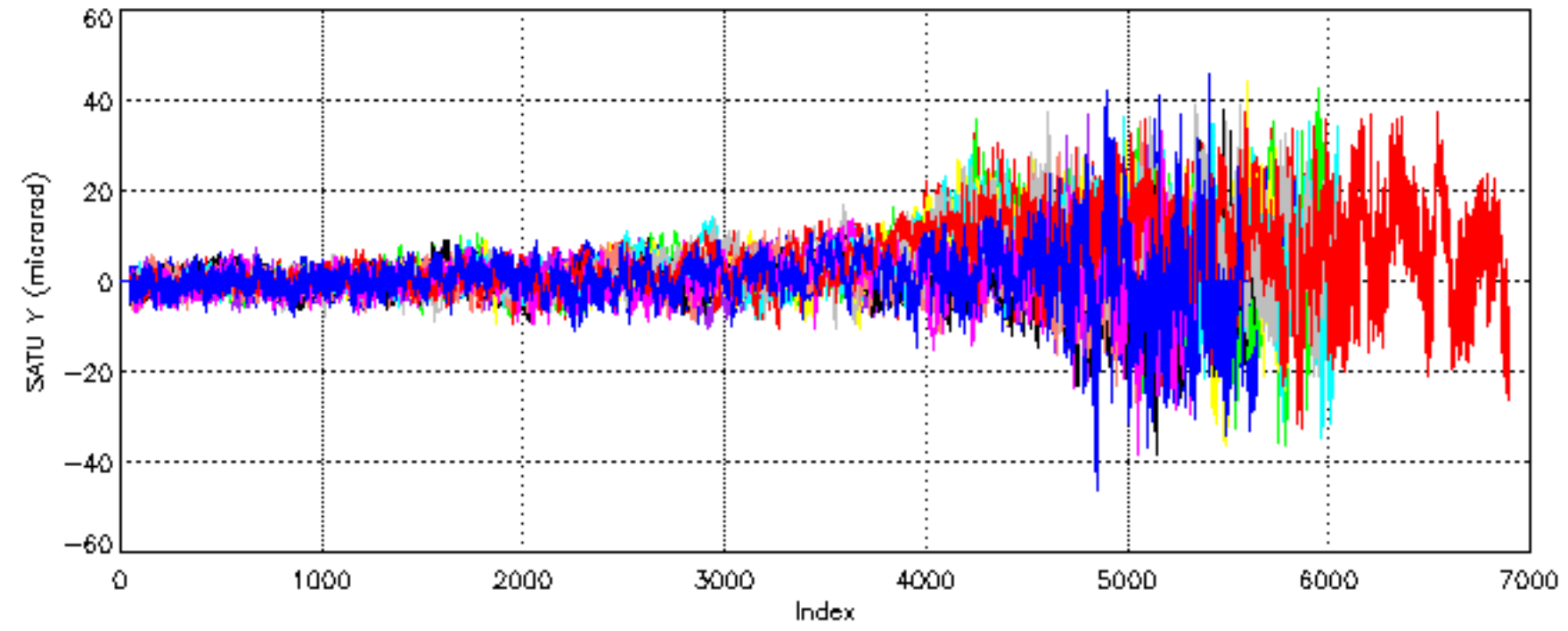


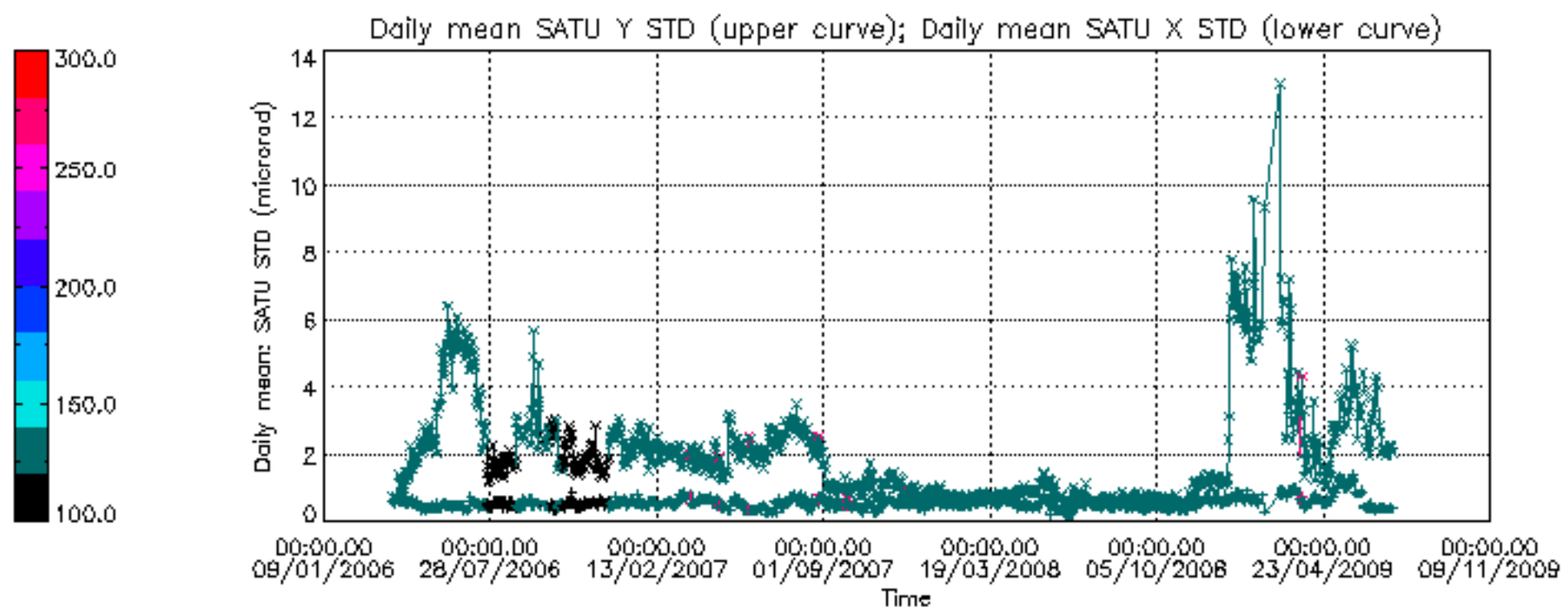


Tangent altitude at which the star is lost











```
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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
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3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
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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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6; 3850.5; 06-JUL-2009 20:22:42; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38430  
7; 4259.5; 06-JUL-2009 20:29:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38430  
8; 4430.8; 06-JUL-2009 20:32:23; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;38430  
9; 4710.9; 06-JUL-2009 20:37:03; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;38430  
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4; 676.1; 06-JUL-2009 21:10:24; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38431
5; 861.1; 06-JUL-2009 21:13:29; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38431
6; 2193.8; 06-JUL-2009 21:35:42; Bright; 43.0; 168; 17Zet Aql ; 2.99; 11000;occ; 86; 0;38431
7; 2616.5; 06-JUL-2009 21:42:44; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;38431
8; 2855.9; 06-JUL-2009 21:46:44; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38431
9; 3288.0; 06-JUL-2009 21:53:56; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38431
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11; 3850.2; 06-JUL-2009 22:03:18; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38431
12; 4259.3; 06-JUL-2009 22:10:07; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38431
13; 4430.9; 06-JUL-2009 22:12:59; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;38431
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3; 567.7; 06-JUL-2009 22:49:11; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38432
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6; 2193.2; 06-JUL-2009 23:16:17; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38432
7; 2616.3; 06-JUL-2009 23:23:20; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38432
8; 2855.3; 06-JUL-2009 23:27:19; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38432
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11; 3849.8; 06-JUL-2009 23:43:54; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38432
12; 4259.2; 06-JUL-2009 23:50:43; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38432
13; 4711.8; 06-JUL-2009 23:58:15; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;38432
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8; 178.4; 06-JUL-2009 07:37:19; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38423
9; 559.3; 06-JUL-2009 07:43:40; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38423
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5; 3743.2; 06-JUL-2009 08:36:44; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;38423
6; 3853.0; 06-JUL-2009 08:38:33; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38423
7; 4260.3; 06-JUL-2009 08:45:21; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;38423
8; 4430.2; 06-JUL-2009 08:48:11; Dark ; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;38423
9; 4708.1; 06-JUL-2009 08:52:49; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;38423
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12; 6215.4; 06-JUL-2009 09:17:56; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38423
13; 6596.0; 06-JUL-2009 09:24:16; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;38423
14; 6706.2; 06-JUL-2009 09:26:07; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38423
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3; 2861.0; 06-JUL-2009 10:02:37; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38424
4; 3292.5; 06-JUL-2009 10:09:49; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38424
5; 3742.5; 06-JUL-2009 10:17:19; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38424
6; 3852.7; 06-JUL-2009 10:19:09; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38424
7; 4260.1; 06-JUL-2009 10:25:56; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38424
8; 4430.2; 06-JUL-2009 10:28:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38424
9; 4708.7; 06-JUL-2009 10:33:25; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38424
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 3; 2860.1; 06-JUL-2009 11:43:12; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38425
 4; 3291.9; 06-JUL-2009 11:50:24; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38425
 5; 3741.7; 06-JUL-2009 11:57:54; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38425
 6; 3852.1; 06-JUL-2009 11:59:44; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38425
 7; 4260.2; 06-JUL-2009 12:06:32; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38425
 8; 4430.3; 06-JUL-2009 12:09:23; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38425
 9; 4709.1; 06-JUL-2009 12:14:01; Dark ; 42.5; 50; 13Alp Ari ; 2.01; 4250;occ; 85; 0;38425
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 4; 3291.1; 06-JUL-2009 13:30:59; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38426
 5; 3741.4; 06-JUL-2009 13:38:29; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38426
 6; 3851.9; 06-JUL-2009 13:40:20; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38426
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 3; 673.9; 06-JUL-2009 16:08:34; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38428
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 7; 4259.8; 06-JUL-2009 17:08:20; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38428
 8; 4710.1; 06-JUL-2009 17:15:50; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38428
 9; 5016.6; 06-JUL-2009 17:20:57; Dark ; 38.0; 94; 92Alp Cet ; 2.53; 3100;occ; 76; 0;38428
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 4; 3289.2; 06-JUL-2009 18:32:45; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38429
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 9; 5017.0; 06-JUL-2009 19:01:33; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;38429
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11; 3849.5; 07-JUL-2009 01:24:29; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;38433
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13; 4712.1; 07-JUL-2009 01:38:52; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38433
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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
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 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
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 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
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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  
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 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  
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 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  
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 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 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  
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 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  
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 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 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  
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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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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
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 3; 694.6; 08-JUL-2009 10:03:53; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38453
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 6; 4256.8; 08-JUL-2009 11:03:15; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38453
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 9; 5609.2; 08-JUL-2009 11:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38453
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11; 6623.7; 08-JUL-2009 11:42:42; Dark ; 64.5; 63; Bet Gru ; 2.15; 2800;occ; 129; 0;38453
12; 6731.3; 08-JUL-2009 11:44:29; Dark ; 56.0; 31; Alp Gru ; 1.73; 15200;occ; 112; 0;38453
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 3; 3724.4; 08-JUL-2009 12:34:58; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;38454
 4; 3841.9; 08-JUL-2009 12:36:56; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38454
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 3; 3272.7; 08-JUL-2009 14:08:03; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38455
 4; 3723.9; 08-JUL-2009 14:15:34; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38455
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 7; 4432.3; 08-JUL-2009 17:48:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38457

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5; 3840.4; 08-JUL-2009 19:19:18; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38458
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9; 5615.0; 08-JUL-2009 19:48:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38458
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6; 2183.2; 09-JUL-2009 01:34:05; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38462
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8; 596.9; 09-JUL-2009 04:28:50; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;38464
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3; -1737.8; 09-JUL-2009 05:30:31; Bright; 35.5; 79; 26Bet Per ; 2.31; 13100;occ; 71; 0;38464
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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; 4255.4; 09-JUL-2009 08:51:00; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38466
 7; 4432.8; 09-JUL-2009 08:53:58; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38466
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 3; 3265.1; 09-JUL-2009 10:15:06; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38467
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 9; 5626.4; 09-JUL-2009 12:35:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38468
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9; 950.2; 14-JUL-2009 03:37:14; Dark ; 52.5; 172; Gam Gru ; 3.00; 13100;occ; 105; 0;38535
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13; 3223.2; 14-JUL-2009 04:15:07; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38535
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8; 306.1; 14-JUL-2009 06:47:42; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38537
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4; 3222.0; 14-JUL-2009 07:36:18; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38537
5; 3670.7; 14-JUL-2009 07:43:47; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38537
6; 3808.6; 14-JUL-2009 07:46:05; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38537
7; 4043.6; 14-JUL-2009 07:50:00; Bright; 60.0; 160; 23Gam Per ; 2.93; 4700;occ; 120; 0;38537
8; 4122.8; 14-JUL-2009 07:51:19; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38537
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3; 2937.0; 14-JUL-2009 09:12:09; Bright; 52.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 104; 0;38538
4; 3221.4; 14-JUL-2009 09:16:54; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38538

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8; 4122.7; 14-JUL-2009 09:31:55; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38538  
9; 4243.4; 14-JUL-2009 09:33:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38538  
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13; 6698.7; 14-JUL-2009 10:14:51; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38538  
14; 6797.1; 14-JUL-2009 10:16:29; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38538  
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4; 3220.9; 14-JUL-2009 10:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38539  
5; 3669.3; 14-JUL-2009 11:04:57; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38539  
6; 3807.6; 14-JUL-2009 11:07:16; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;38539  
7; 4043.2; 14-JUL-2009 11:11:11; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38539  
8; 4122.6; 14-JUL-2009 11:12:31; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38539  
9; 4243.2; 14-JUL-2009 11:14:31; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38539  
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12; 6345.2; 14-JUL-2009 11:49:33; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38539  
13; 6699.4; 14-JUL-2009 11:55:27; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38539  
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5; 3807.3; 14-JUL-2009 12:47:51; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;38540  
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5; 3667.4; 14-JUL-2009 16:06:43; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38542  
6; 3806.3; 14-JUL-2009 16:09:02; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;38542  
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9; 4242.7; 14-JUL-2009 16:16:18; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38542

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16; 6992.3; 14-JUL-2009 17:02:08; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38542
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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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 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549  
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 16; 6828.0; 17-JUL-2009 10:22:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38581  
 17; 7021.6; 17-JUL-2009 10:25:59; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38581

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 2; 2766.0; 17-JUL-2009 10:55:39; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;38582  
 3; 2899.5; 17-JUL-2009 10:57:52; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38582  
 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  
 10; 4473.1; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582  
 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  
 15; 6735.0; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38582  
 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  
 6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582  
 7;-1406.3; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582  
 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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 2; 2764.9; 17-JUL-2009 14:16:50; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38584  
 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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 2; 2764.4; 17-JUL-2009 15:57:25; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38585  
 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  
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585  
 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  
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585  
 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  
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586  
 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  
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591  
 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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10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
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
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
14; 3632.4; 18-JUL-2009 03:56:05; Bright; 6.0; 74; 11Bet Cas ; 2.27; 6600;occ; 12; 0;38592
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2;-2286.5; 18-JUL-2009 03:58:02; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38592
3;-2002.2; 18-JUL-2009 04:02:46; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38592
4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 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
14; 2760.8; 18-JUL-2009 05:22:09; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38593
15; 2890.5; 18-JUL-2009 05:24:19; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38593
16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
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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2;-2287.1; 18-JUL-2009 05:38:37; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38593
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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6; 3669.4; 24-JUL-2009 07:29:23; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38680
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 5; 3566.1; 24-JUL-2009 09:08:16; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38681
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12; 4751.8; 24-JUL-2009 09:28:01; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38681
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16; 6508.4; 24-JUL-2009 09:57:18; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38681
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14; 5579.9; 24-JUL-2009 11:22:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38682
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17; 6894.4; 24-JUL-2009 11:44:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38682
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13; 5358.8; 24-JUL-2009 12:59:20; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38683
14; 5581.1; 24-JUL-2009 13:03:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38683
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 3; 2825.6; 24-JUL-2009 13:57:43; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38684
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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; 4100.7; 25-JUL-2009 10:26:09; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38696
9; 4288.1; 25-JUL-2009 10:29:17; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38696
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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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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
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
6; 3658.7; 25-JUL-2009 11:59:23; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 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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15; 5927.7; 25-JUL-2009 12:37:12; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38697
16; 6526.5; 25-JUL-2009 12:47:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 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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 16; 6904.1; 25-JUL-2009 14:34:04; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 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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 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699  
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 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699  
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 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  
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700  
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700  
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 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  
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 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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 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 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
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4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
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6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
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