GOMOS Daily Report 31-JUL-2010

Level 0 and Level 1 products

SUMMARY

1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
   - 2.1 Level 0: products arrived in PCF during current month (see template here)
   - 2.2 Level 0: plot of mission plan versus production during reporting period
   - 2.3 Level 0: summary of missing occultations with respect to the plan
   - 2.4 Level 1: products arrived in PCF during reporting period

3. Plot of Spectrometers and Photometers temperatures

4. Dark Charge monitoring
   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
   - 4.2 Plot of Dark Charge

5. Demodulation correction and quality product information monitoring
   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

6. Star tangent altitude lost
   - 6.1 Statistics on star tangent altitude lost
   - 6.2 Plot of star tangent altitude lost: DARK products
   - 6.3 Plot of star tangent altitude lost: BRIGHT products
   - 6.3 Plot of star tangent altitude lost: TWILIGHT products

7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
   - 7.2 SATU Noise Equivalent Angle statistics
     - 7.2.1 SATU NEA Statistics (table)
       - 7.2.2 Daily SATU NEA STD (dark limb) - trend since 1st April 2006

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

Level 2 products

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1. General Info

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.

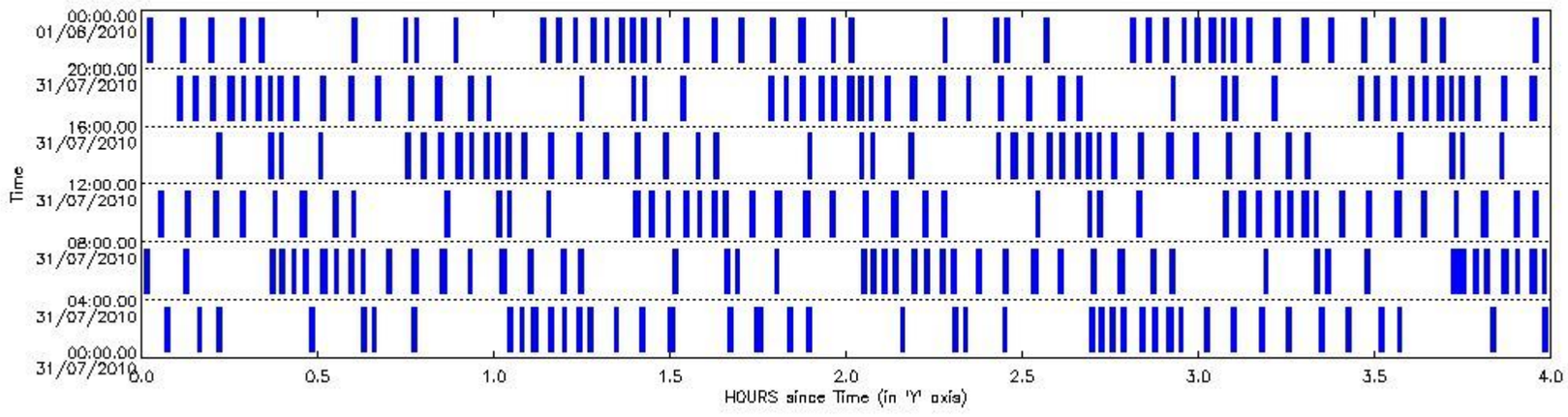
Item	Value
Time of report generation	04AUG2010 04:57:10
Data source version	GOMOS/5.01
Start time of products	31JUL2010 00:03:53
Stop time of products	31JUL2010 23:57:02
Store outputs in DB	Yes
Nb of level 1b prods	102
Nb of prods with errors	0

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)

No missing products.

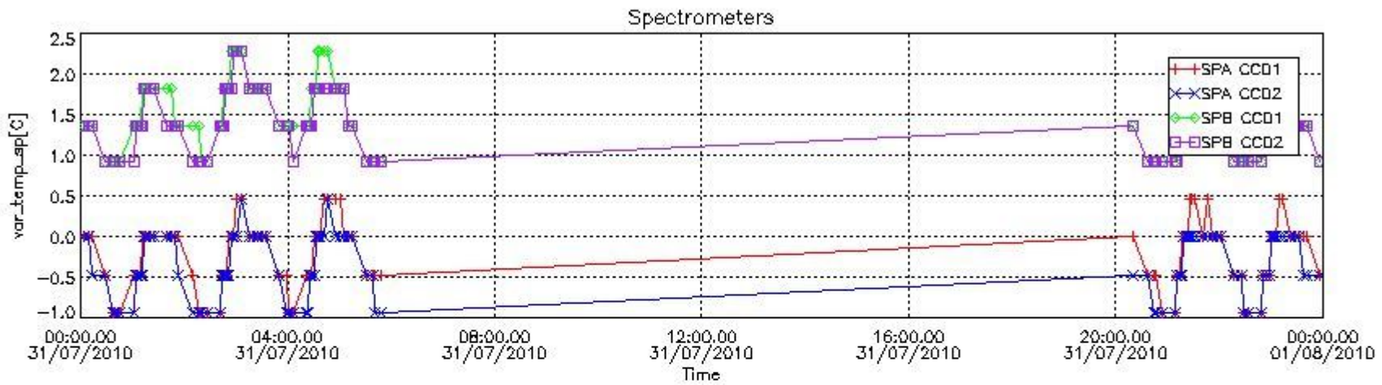
2.4 Summary of processed GOM_TRA_1P products

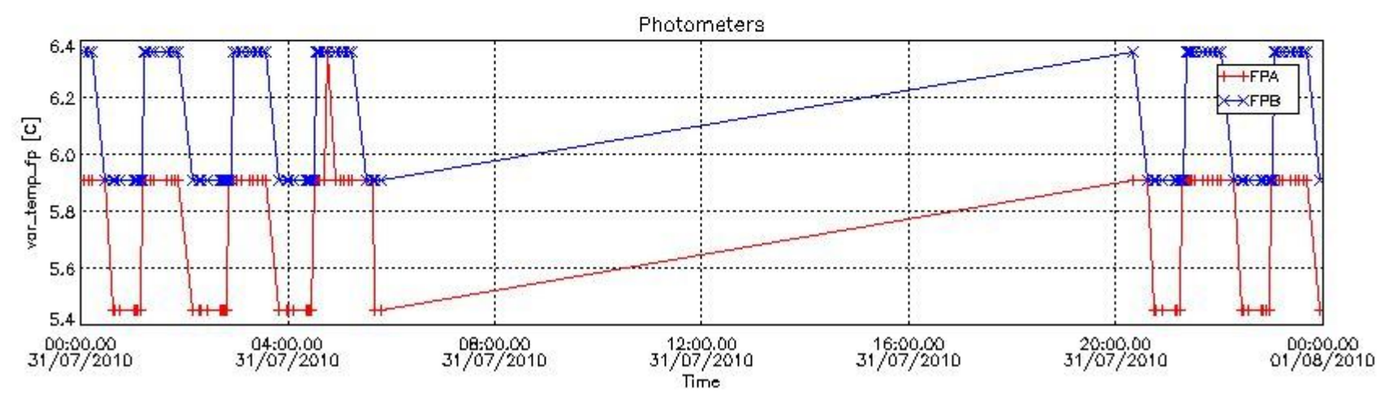
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100731_000353_000000542091_00360_44001_1179.N1	31-JUL-2010 00:03:53	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	44001	No
2	GOM_TRA_1PNPDE20100731_000929_000000432091_00360_44001_1180.N1	31-JUL-2010 00:09:29	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	44001	No
3	GOM_TRA_1PNPDE20100731_001238_000000482091_00360_44001_1181.N1	31-JUL-2010 00:12:38	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	44001	No
4	GOM_TRA_1PNPDE20100731_002840_000000402091_00360_44001_1182.N1	31-JUL-2010 00:28:40	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	44001	No
5	GOM_TRA_1PNPDE20100731_003729_000000442091_00360_44001_1183.N1	31-JUL-2010 00:37:29	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	44001	No
6	GOM_TRA_1PNPDE20100731_003918_000000382091_00360_44001_1184.N1	31-JUL-2010 00:39:18	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	44001	No
7	GOM_TRA_1PNPDE20100731_004558_000000412091_00360_44001_1185.N1	31-JUL-2010 00:45:58	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	44001	No
8	GOM_TRA_1PNPDE20100731_010223_000000492091_00360_44001_1186.N1	31-JUL-2010 01:02:23	Bright	49.000	35	33Alp Per	1.7950	6250.0	98	44001	No
9	GOM_TRA_1PNPDE20100731_010420_000000412091_00360_44001_1187.N1	31-JUL-2010 01:04:20	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	44001	No
10	GOM_TRA_1PNPDE20100731_010616_000000662091_00360_44001_1188.N1	31-JUL-2010 01:06:16	Bright	66.000	149	45Eps Per	2.8880	30000.	132	44001	No
11	GOM_TRA_1PNPDE20100731_010918_000000532091_00360_44001_1189.N1	31-JUL-2010 01:09:18	Twi_and_stray	52.500	150	44Zet Per	2.8900	28000.	105	44001	No
12	GOM_TRA_1PNPDE20100731_011135_000000412091_00360_44001_1190.N1	31-JUL-2010 01:11:35	Twi_and_stray	40.500	176	23Zet Tau	3.0200	22000.	81	44001	No

13	GOM_TRA_1PNPDE20100731_011402_000000512091_00360_44001_1191.N1	31-JUL-2010 01:14:02	Dark	51.000	13	87Alp Tau	0.86700	3800.0	102	44001	No
14	GOM_TRA_1PNPDE20100731_011603_000000402091_00360_44001_1192.N1	31-JUL-2010 01:16:03	Dark	39.500	27	24Gam Ori	1.6360	26000.	79	44001	No
15	GOM_TRA_1PNPDE20100731_012024_000000402091_00360_44001_1193.N1	31-JUL-2010 01:20:24	Dark	40.000	7	19Bet Ori	0.10000	14000.	80	44001	No
16	GOM_TRA_1PNPDE20100731_012450_000000542091_00360_44001_1198.N1	31-JUL-2010 01:24:50	Dark	54.000	165	34Gam Eri	2.9500	3200.0	108	44001	No
17	GOM_TRA_1PNPDE20100731_013951_000000442091_00361_44002_1199.N1	31-JUL-2010 01:39:51	Dark	43.500	9	Alp Eri	0.45300	24000.	87	44002	No
18	GOM_TRA_1PNPDE20100731_014430_000000672091_00361_44002_1200.N1	31-JUL-2010 01:44:30	Straylight	66.500	84	Alp Phe	2.3970	4500.0	133	44002	No
19	GOM_TRA_1PNPDE20100731_015006_000000452091_00361_44002_1201.N1	31-JUL-2010 01:50:06	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	44002	No
20	GOM_TRA_1PNPDE20100731_015315_000000462091_00361_44002_1202.N1	31-JUL-2010 01:53:15	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	44002	No
21	GOM_TRA_1PNPDE20100731_020916_000000382091_00361_44002_1203.N1	31-JUL-2010 02:09:16	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	44002	No
22	GOM_TRA_1PNPDE20100731_021804_000000462091_00361_44002_1204.N1	31-JUL-2010 02:18:04	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	44002	No
23	GOM_TRA_1PNPDE20100731_021954_000000362091_00361_44002_1205.N1	31-JUL-2010 02:19:54	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	44002	No
24	GOM_TRA_1PNPDE20100731_022634_000000392091_00361_44002_1206.N1	31-JUL-2010 02:26:34	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	44002	No
25	GOM_TRA_1PNPDE20100731_024121_000000492091_00361_44002_1224.N1	31-JUL-2010 02:41:21	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	44002	No
26	GOM_TRA_1PNPDE20100731_024258_000000472091_00361_44002_1225.N1	31-JUL-2010 02:42:58	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	44002	No
27	GOM_TRA_1PNPDE20100731_024456_000000402091_00361_44002_1226.N1	31-JUL-2010 02:44:56	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	44002	No
28	GOM_TRA_1PNPDE20100731_024652_000000482091_00361_44002_1227.N1	31-JUL-2010 02:46:52	Bright	48.000	149	45Eps Per	2.8880	30000.	96	44002	No
29	GOM_TRA_1PNPDE20100731_024954_000000552091_00361_44002_1228.N1	31-JUL-2010 02:49:54	Twi_and_stray	55.000	150	44Zet Per	2.8900	28000.	110	44002	No
30	GOM_TRA_1PNPDE20100731_025211_000000392091_00361_44002_1229.N1	31-JUL-2010 02:52:11	Twi_and_stray	38.500	176	23Zet Tau	3.0200	22000.	77	44002	No
31	GOM_TRA_1PNPDE20100731_025438_000000562091_00361_44002_1230.N1	31-JUL-2010 02:54:38	Dark	55.500	13	87Alp Tau	0.86700	3800.0	111	44002	No
32	GOM_TRA_1PNPDE20100731_025639_000000382091_00361_44002_1231.N1	31-JUL-2010 02:56:39	Dark	38.000	27	24Gam Ori	1.6360	26000.	76	44002	No
33	GOM_TRA_1PNPDE20100731_030101_000000482091_00361_44002_1232.N1	31-JUL-2010 03:01:01	Dark	47.500	7	19Bet Ori	0.10000	14000.	95	44002	No
34	GOM_TRA_1PNPDE20100731_030527_000000542091_00361_44002_1233.N1	31-JUL-2010 03:05:27	Dark	54.000	165	34Gam Eri	2.9500	3200.0	108	44002	No
35	GOM_TRA_1PNPDE20100731_031452_000000472091_00361_44002_1234.N1	31-JUL-2010 03:14:52	Dark	46.500	157	The1Eri	2.9060	9300.0	93	44002	No
36	GOM_TRA_1PNPDE20100731_032027_000000492091_00362_44003_1235.N1	31-JUL-2010 03:20:27	Dark	49.000	9	Alp Eri	0.45300	24000.	98	44003	No
37	GOM_TRA_1PNPDE20100731_032507_000000542091_00362_44003_1236.N1	31-JUL-2010 03:25:07	Straylight	54.000	84	Alp Phe	2.3970	4500.0	108	44003	No
38	GOM_TRA_1PNPDE20100731_033042_000000452091_00362_44003_1237.N1	31-JUL-2010 03:30:42	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	44003	No
39	GOM_TRA_1PNPDE20100731_033351_000000452091_00362_44003_1238.N1	31-JUL-2010 03:33:51	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	44003	No
40	GOM_TRA_1PNPDE20100731_034952_000000392091_00362_44003_1239.N1	31-JUL-2010 03:49:52	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	44003	No
41	GOM_TRA_1PNPDE20100731_035840_000000432091_00362_44003_1240.N1	31-JUL-2010 03:58:40	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	44003	No
42	GOM_TRA_1PNPDE20100731_040030_000000372091_00362_44003_1241.N1	31-JUL-2010 04:00:30	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	44003	No
43	GOM_TRA_1PNPDE20100731_040709_000000412091_00362_44003_1242.N1	31-JUL-2010 04:07:09	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	44003	No
44	GOM_TRA_1PNPDE20100731_042156_000000492091_00362_44003_1251.N1	31-JUL-2010 04:21:56	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	44003	No
45	GOM_TRA_1PNPDE20100731_042334_000000502091_00362_44003_1252.N1	31-JUL-2010 04:23:34	Bright	50.000	35	33Alp Per	1.7950	6250.0	100	44003	No
46	GOM_TRA_1PNPDE20100731_042532_000000442091_00362_44003_1253.N1	31-JUL-2010 04:25:32	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	44003	No
47	GOM_TRA_1PNPDE20100731_042727_000000482091_00362_44003_1254.N1	31-JUL-2010 04:27:27	Bright	47.500	149	45Eps Per	2.8880	30000.	95	44003	No
48	GOM_TRA_1PNPDE20100731_043030_000000552091_00362_44003_1255.N1	31-JUL-2010 04:30:30	Twi_and_stray	54.500	150	44Zet Per	2.8900	28000.	109	44003	No
49	GOM_TRA_1PNPDE20100731_043247_000000392091_00362_44003_1256.N1	31-JUL-2010 04:32:47	Twi_and_stray	39.000	176	23Zet Tau	3.0200	22000.	78	44003	No
50	GOM_TRA_1PNPDE20100731_043514_000000552091_00362_44003_1257.N1	31-JUL-2010 04:35:14	Dark	55.000	13	87Alp Tau	0.86700	3800.0	110	44003	No
51	GOM_TRA_1PNPDE20100731_043716_000000392091_00362_44003_1258.N1	31-JUL-2010 04:37:16	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	44003	No
52	GOM_TRA_1PNPDE20100731_044137_000000462091_00362_44003_1259.N1	31-JUL-2010 04:41:37	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	44003	No
53	GOM_TRA_1PNPDE20100731_044604_000000612091_00362_44003_1260.N1	31-JUL-2010 04:46:04	Dark	60.500	165	34Gam Eri	2.9500	3200.0	121	44003	No
54	GOM_TRA_1PNPDE20100731_045528_000000472091_00362_44003_1261.N1	31-JUL-2010 04:55:28	Dark	46.500	157	The1Eri	2.9060	9300.0	93	44003	No
55	GOM_TRA_1PNPDE20100731_050104_000000522091_00363_44004_1262.N1	31-JUL-2010 05:01:04	Dark	52.000	9	Alp Eri	0.45300	24000.	104	44004	No
56	GOM_TRA_1PNPDE20100731_050544_000000562091_00363_44004_1263.N1	31-JUL-2010 05:05:44	Straylight	56.000	84	Alp Phe	2.3970	4500.0	112	44004	No
57	GOM_TRA_1PNPDE20100731_051119_000000522091_00363_44004_1264.N1	31-JUL-2010 05:11:19	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	44004	No
58	GOM_TRA_1PNPDE20100731_051428_000000472091_00363_44004_1265.N1	31-JUL-2010 05:14:28	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	44004	No
59	GOM_TRA_1PNPDE20100731_053028_000000402091_00363_44004_1266.N1	31-JUL-2010 05:30:28	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	44004	No
60	GOM_TRA_1PNPDE20100731_053915_000000472091_00363_44004_1267.N1	31-JUL-2010 05:39:15	Bright	46.500	92	53Eps Cyg	2.5000	4500.0	93	44004	No
61	GOM_TRA_1PNPDE20100731_054106_000000372091_00363_44004_1268.N1	31-JUL-2010 05:41:06	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	44004	No
62	GOM_TRA_1PNPDE20100731_054745_000000412091_00363_44004_1269.N1	31-JUL-2010 05:47:45	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	44004	No
63	GOM_TRA_1PNPDE20100731_201956_000000452091_00372_44013_1367.N1	31-JUL-2010 20:19:56	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	44013	No
64	GOM_TRA_1PNPDE20100731_203551_000000382091_00372_44013_1368.N1	31-JUL-2010 20:35:51	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	44013	No
65	GOM_TRA_1PNPDE20100731_204434_000000432091_00372_44013_1369.N1	31-JUL-2010 20:44:34	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	44013	No
66	GOM_TRA_1PNPDE20100731_204627_000000382091_00372_44013_1370.N1	31-JUL-2010 20:46:27	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	44013	No
67	GOM_TRA_1PNPDE20100731_205305_000000422091_00372_44013_1371.N1	31-JUL-2010 20:53:05	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	44013	No
68	GOM_TRA_1PNPDE20100731_210752_000000482091_00372_44013_1372.N1	31-JUL-2010 21:07:52	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	44013	No
69	GOM_TRA_1PNPDE20100731_211031_000000532091_00372_44013_1373.N1	31-JUL-2010 21:10:31	Bright	53.000	175	39Del Per	3.0100	19400.	106	44013	No
70	GOM_TRA_1PNPDE20100731_211327_000000442091_00372_44013_1374.N1	31-JUL-2010 21:13:27	Bright	44.000	149	45Eps Per	2.8880	30000.	88	44013	No
71	GOM_TRA_1PNPDE20100731_211631_000000452091_00372_44013_1375.N1	31-JUL-2010 21:16:31	Twi_and_stray	45.000	150	44Zet Per	2.8900	28000.	90	44013	No

72	GOM_TRA_1PNPDE20100731_211849_000000412091_00372_44013_1376.N1	31-JUL-2010 21:18:49	Twi_and_stray	40.500	176	23Zet Tau	3.0200	22000.	81	44013	No
73	GOM_TRA_1PNPDE20100731_212118_000000562091_00372_44013_1377.N1	31-JUL-2010 21:21:18	Dark	55.500	13	87Alp Tau	0.86700	3800.0	111	44013	No
74	GOM_TRA_1PNPDE20100731_212318_000000452091_00372_44013_1378.N1	31-JUL-2010 21:23:18	Dark	44.500	27	24Gam Ori	1.6360	26000.	89	44013	No
75	GOM_TRA_1PNPDE20100731_212504_000000422091_00372_44013_1379.N1	31-JUL-2010 21:25:04	Dark	41.500	72	34Del Ori	2.2500	30000.	83	44013	No
76	GOM_TRA_1PNPDE20100731_212741_000000432091_00372_44013_1380.N1	31-JUL-2010 21:27:41	Dark	42.500	7	19Bet Ori	0.10000	14000.	85	44013	No
77	GOM_TRA_1PNPDE20100731_213213_000000562091_00372_44013_1395.N1	31-JUL-2010 21:32:13	Dark	55.500	165	34Gam Eri	2.9500	3200.0	111	44013	No
78	GOM_TRA_1PNPDE20100731_214138_000000472091_00372_44013_1396.N1	31-JUL-2010 21:41:38	Dark	47.000	157	The1Eri	2.9060	9300.0	94	44013	No
79	GOM_TRA_1PNPDE20100731_214710_000000472091_00373_44014_1397.N1	31-JUL-2010 21:47:10	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44014	No
80	GOM_TRA_1PNPDE20100731_215154_000000552091_00373_44014_1398.N1	31-JUL-2010 21:51:54	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	44014	No
81	GOM_TRA_1PNPDE20100731_215723_000000432091_00373_44014_1399.N1	31-JUL-2010 21:57:23	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	44014	No
82	GOM_TRA_1PNPDE20100731_220032_000000452091_00373_44014_1400.N1	31-JUL-2010 22:00:32	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	44014	No
83	GOM_TRA_1PNPDE20100731_221627_000000382091_00373_44014_1401.N1	31-JUL-2010 22:16:27	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	44014	No
84	GOM_TRA_1PNPDE20100731_222509_000000422091_00373_44014_1402.N1	31-JUL-2010 22:25:09	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	44014	No
85	GOM_TRA_1PNPDE20100731_222702_000000382091_00373_44014_1403.N1	31-JUL-2010 22:27:02	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	44014	No
86	GOM_TRA_1PNPDE20100731_223340_000000422091_00373_44014_1404.N1	31-JUL-2010 22:33:40	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	44014	No
87	GOM_TRA_1PNPDE20100731_224828_000000472091_00373_44014_1405.N1	31-JUL-2010 22:48:28	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	44014	No
88	GOM_TRA_1PNPDE20100731_225106_000000442091_00373_44014_1406.N1	31-JUL-2010 22:51:06	Bright	44.000	175	39Del Per	3.0100	19400.	88	44014	No
89	GOM_TRA_1PNPDE20100731_225402_000000462091_00373_44014_1407.N1	31-JUL-2010 22:54:02	Bright	45.500	149	45Eps Per	2.8880	30000.	91	44014	No
90	GOM_TRA_1PNPDE20100731_225707_000000372091_00373_44014_1408.N1	31-JUL-2010 22:57:07	Twi_and_stray	37.000	150	44Zet Per	2.8900	28000.	74	44014	No
91	GOM_TRA_1PNPDE20100731_225925_000000422091_00373_44014_1409.N1	31-JUL-2010 22:59:25	Twi_and_stray	41.500	176	23Zet Tau	3.0200	22000.	83	44014	No
92	GOM_TRA_1PNPDE20100731_230154_000000612091_00373_44014_1410.N1	31-JUL-2010 23:01:54	Dark	60.500	13	87Alp Tau	0.86700	3800.0	121	44014	No
93	GOM_TRA_1PNPDE20100731_230354_000000422091_00373_44014_1411.N1	31-JUL-2010 23:03:54	Dark	41.500	27	24Gam Ori	1.6360	26000.	83	44014	No
94	GOM_TRA_1PNPDE20100731_230540_000000422091_00373_44014_1412.N1	31-JUL-2010 23:05:40	Dark	41.500	72	34Del Ori	2.2500	30000.	83	44014	No
95	GOM_TRA_1PNPDE20100731_230817_000000412091_00373_44014_1413.N1	31-JUL-2010 23:08:17	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	44014	No
96	GOM_TRA_1PNPDE20100731_231250_000000552091_00373_44014_1415.N1	31-JUL-2010 23:12:50	Dark	55.000	165	34Gam Eri	2.9500	3200.0	110	44014	No
97	GOM_TRA_1PNPDE20100731_232214_000000462091_00373_44014_1416.N1	31-JUL-2010 23:22:14	Dark	45.500	157	The1Eri	2.9060	9300.0	91	44014	No
98	GOM_TRA_1PNPDE20100731_232746_000000452091_00374_44015_1417.N1	31-JUL-2010 23:27:46	Dark	45.000	9	Alp Eri	0.45300	24000.	90	44015	No
99	GOM_TRA_1PNPDE20100731_233231_000000572091_00374_44015_1418.N1	31-JUL-2010 23:32:31	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	44015	No
100	GOM_TRA_1PNPDE20100731_233800_000000452091_00374_44015_1419.N1	31-JUL-2010 23:38:00	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	44015	No
101	GOM_TRA_1PNPDE20100731_234108_000000472091_00374_44015_1420.N1	31-JUL-2010 23:41:08	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	44015	No
102	GOM_TRA_1PNPDE20100731_235702_000000402091_00374_44015_1421.N1	31-JUL-2010 23:57:02	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	44015	No

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





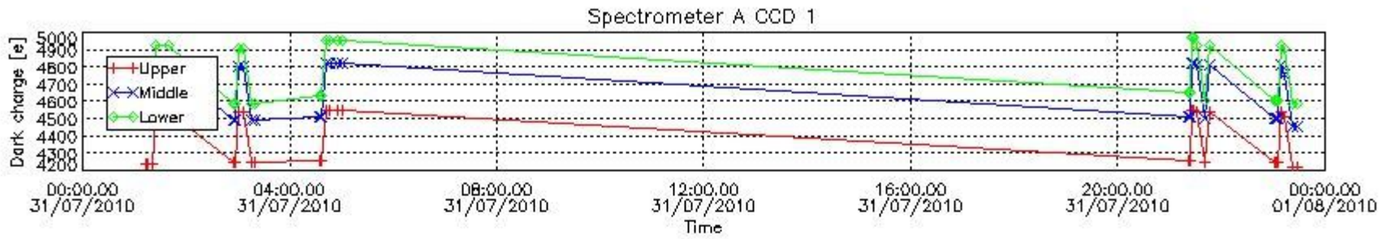
4. Overview of dark signal processing per product

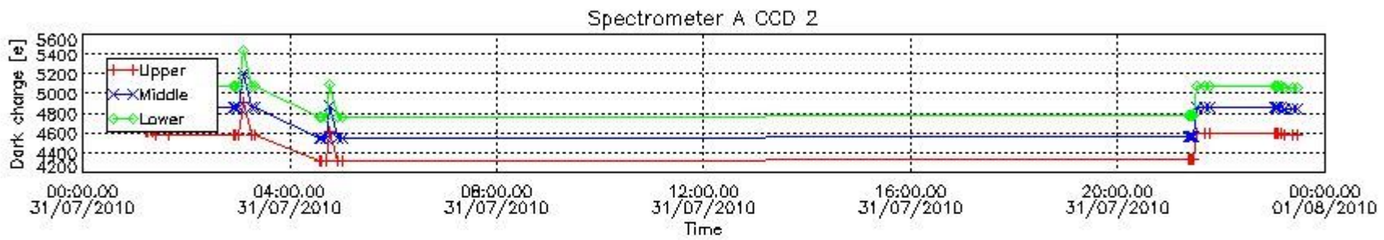
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

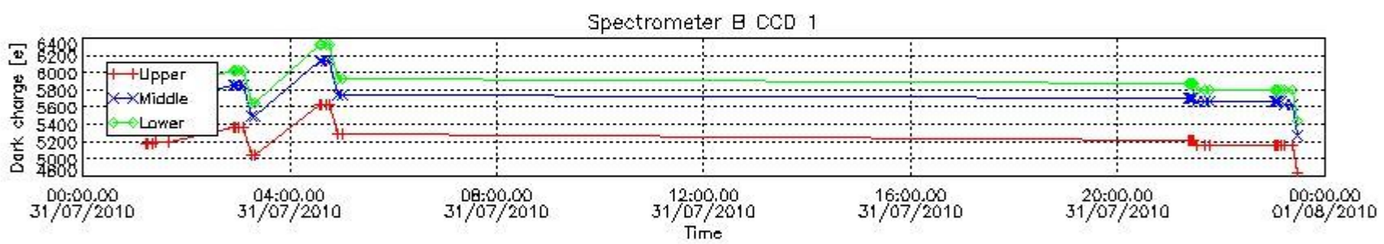
4.1 These products did not use the DSA observation for DC computation:

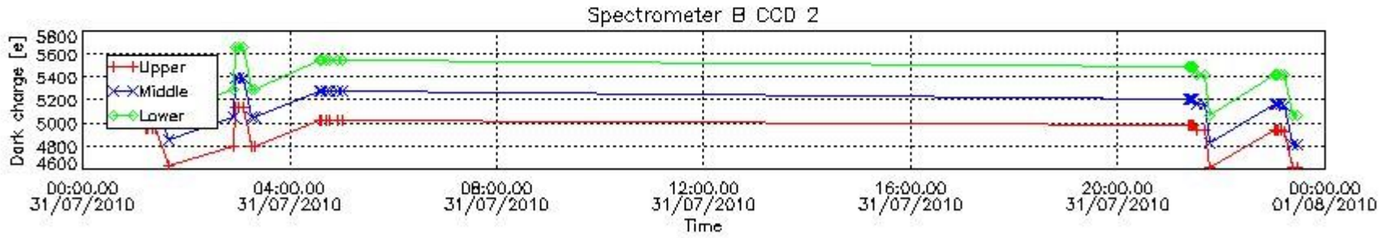
Product name	DC information
GOM_TRA_1PNPDE20100731_201956_000000452091_00372_44013_1367.N1	DC map used
GOM_TRA_1PNPDE20100731_203551_000000382091_00372_44013_1368.N1	DC map used
GOM_TRA_1PNPDE20100731_204434_000000432091_00372_44013_1369.N1	DC map used
GOM_TRA_1PNPDE20100731_204627_000000382091_00372_44013_1370.N1	DC map used
GOM_TRA_1PNPDE20100731_205305_000000422091_00372_44013_1371.N1	DC map used
GOM_TRA_1PNPDE20100731_210752_000000482091_00372_44013_1372.N1	DC map used
GOM_TRA_1PNPDE20100731_211031_000000532091_00372_44013_1373.N1	DC map used
GOM_TRA_1PNPDE20100731_211327_000000442091_00372_44013_1374.N1	DC map used
GOM_TRA_1PNPDE20100731_211631_000000452091_00372_44013_1375.N1	DC map used
GOM_TRA_1PNPDE20100731_211849_000000412091_00372_44013_1376.N1	DC map used
GOM_TRA_1PNPDE20100731_212118_000000562091_00372_44013_1377.N1	DC map used
GOM_TRA_1PNPDE20100731_212318_000000452091_00372_44013_1378.N1	DC map used
GOM_TRA_1PNPDE20100731_212504_000000422091_00372_44013_1379.N1	DC map used
GOM_TRA_1PNPDE20100731_212741_000000432091_00372_44013_1380.N1	DC map used

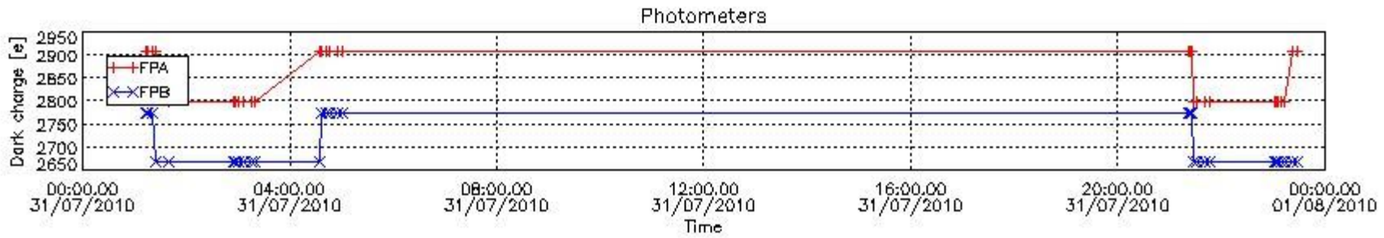
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











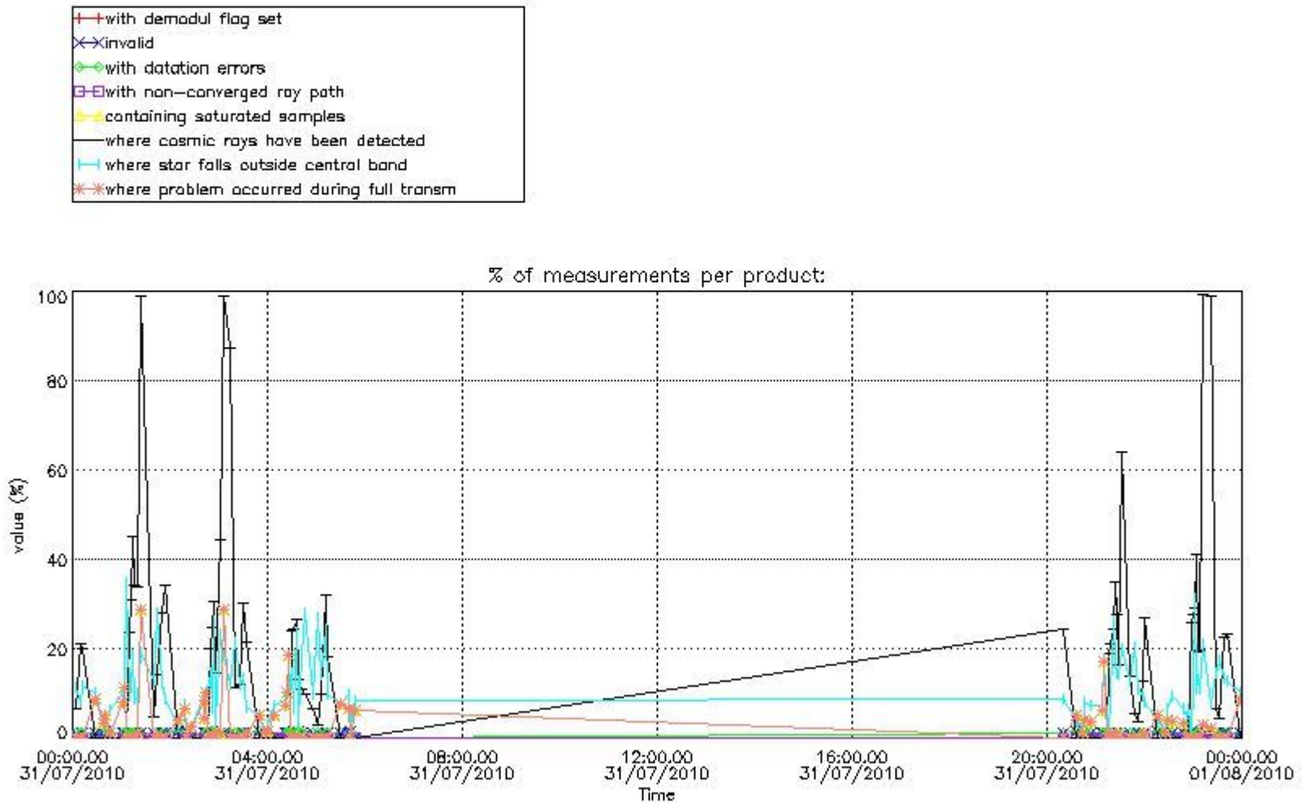
5. Demodulation flag and quality information monitoring

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:

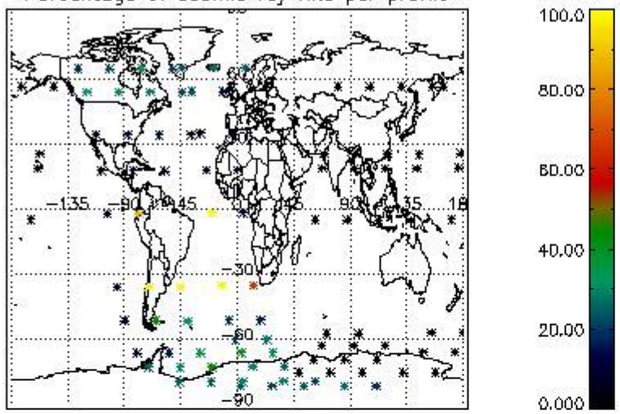
At least one measurement with demodulation flag set:	45.0980 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

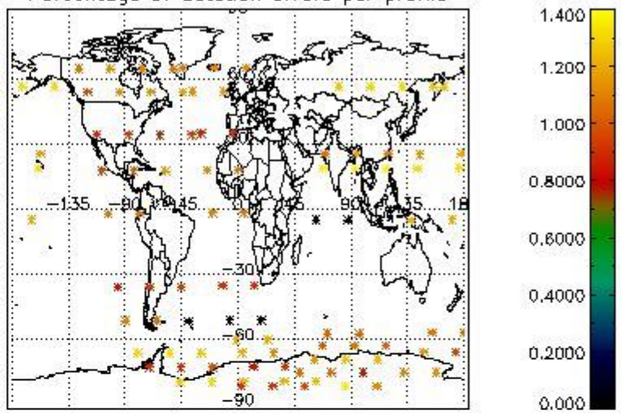


5.3 Plot quality information per product (world map)

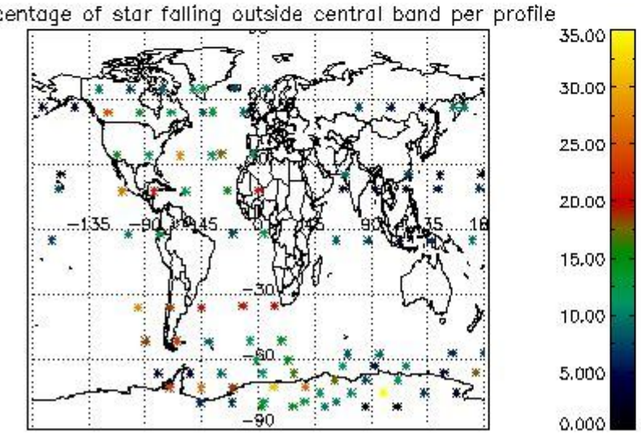
Percentage of cosmic ray hits per profile



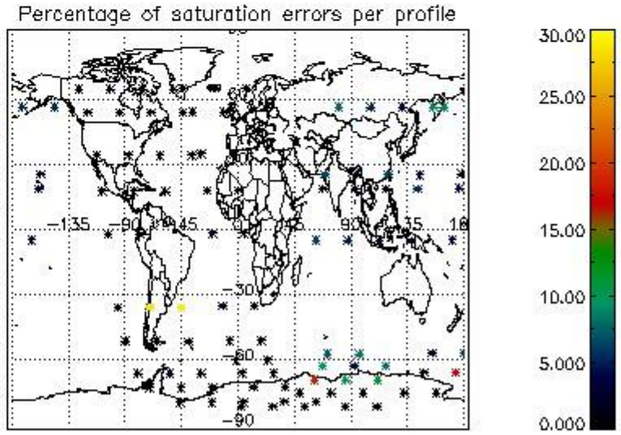
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



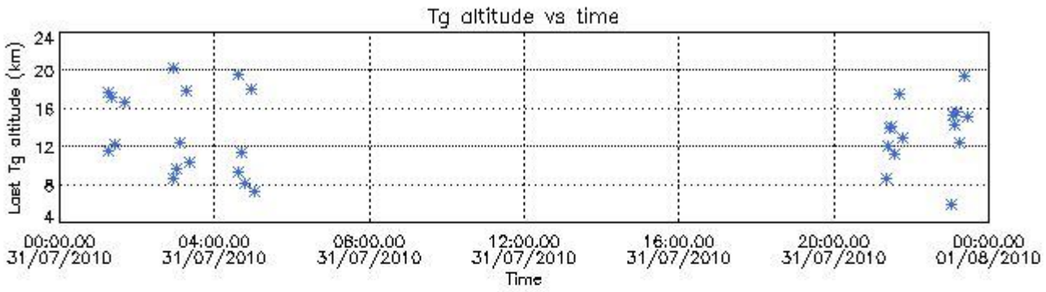
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

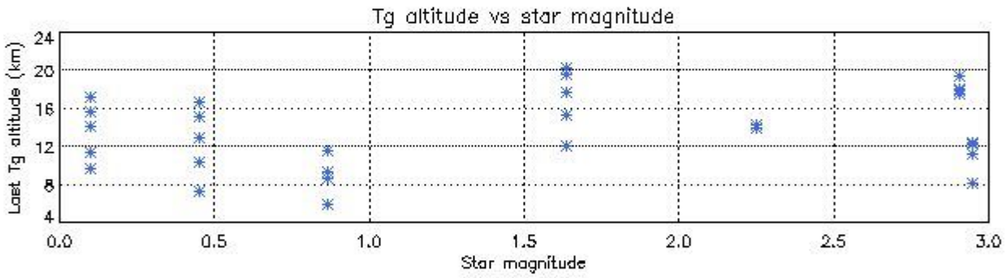
6.1 Statistics on tangent altitude lost:

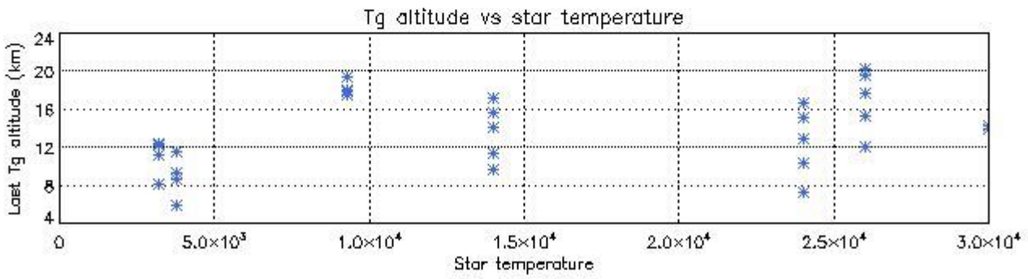
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.429	20.272	NaN
St. deviation:	3.9234	3.8386	NaN
Maximum:	20.235	26.222	NaN
Minimum:	5.9061	4.4769	NaN
Number of data:	31.000	42.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

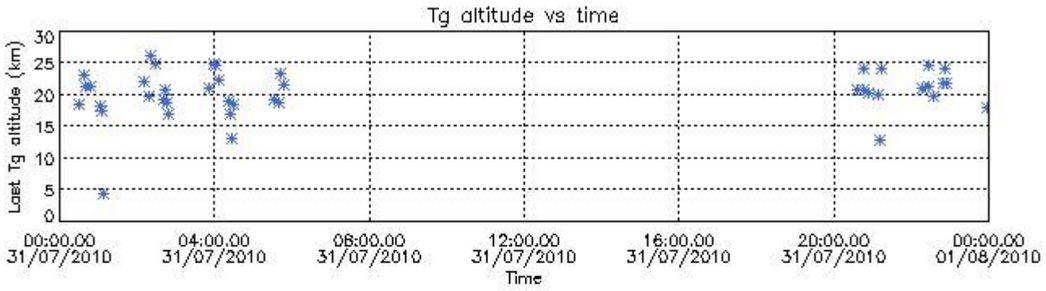


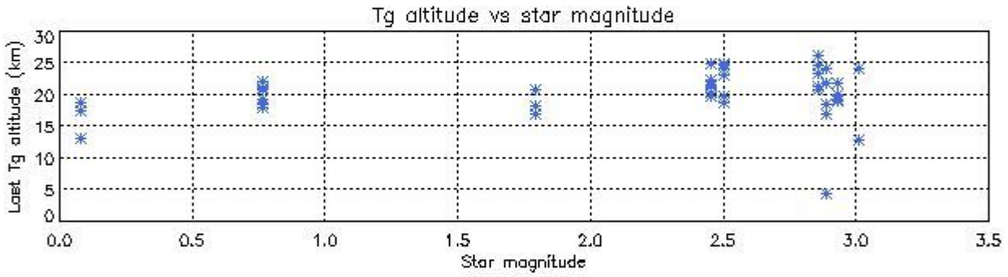


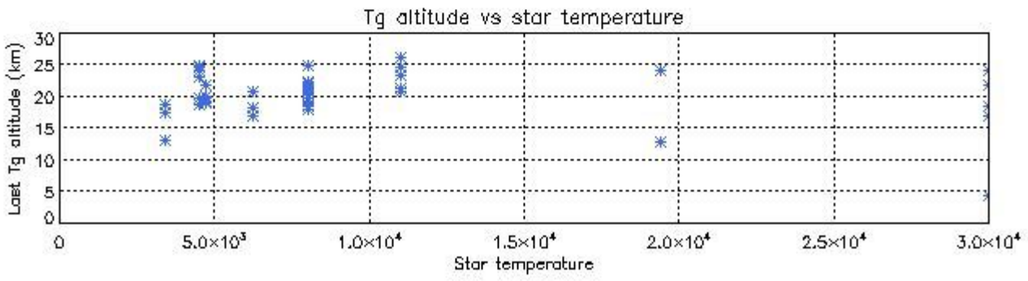


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





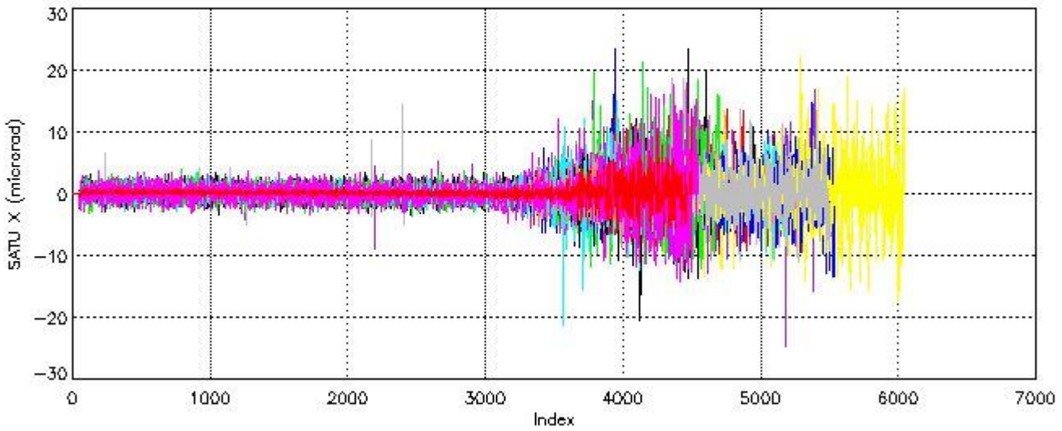


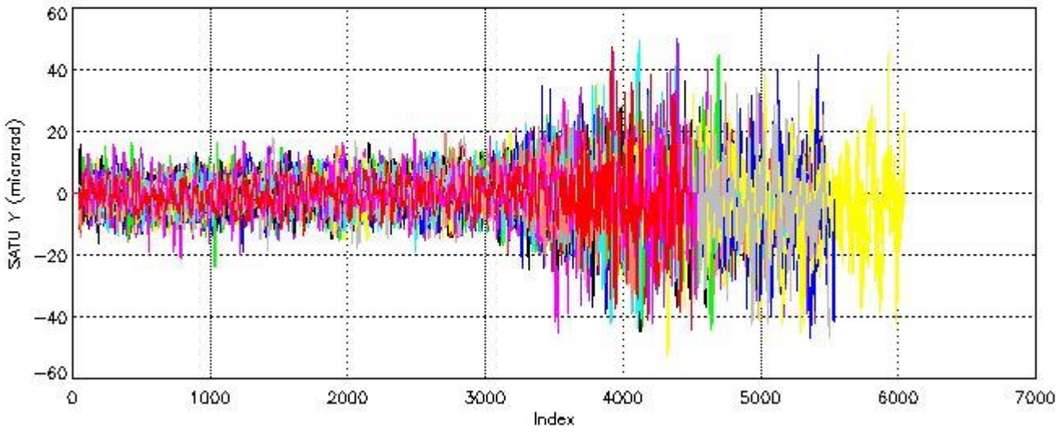
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.14591	-0.96887	0.21267	-0.69525
St. deviation:	0.45721	4.1512	0.84700	4.3038
Maximum:	6.6000	16.100	5.2000	17.600
Minimum:	-3.3000	-23.700	-5.4000	-21.700

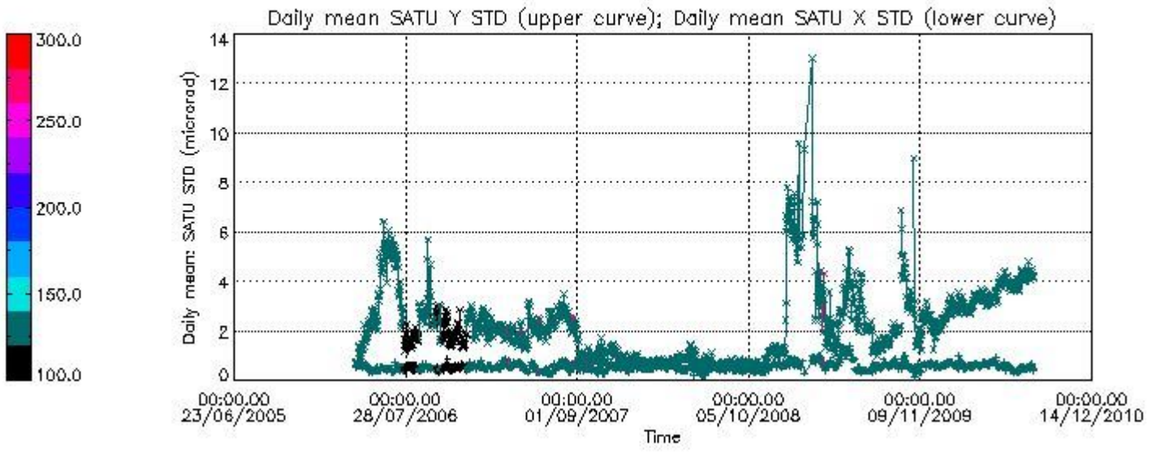
Number of data:	30850.	30850.	42550.	42550.

7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

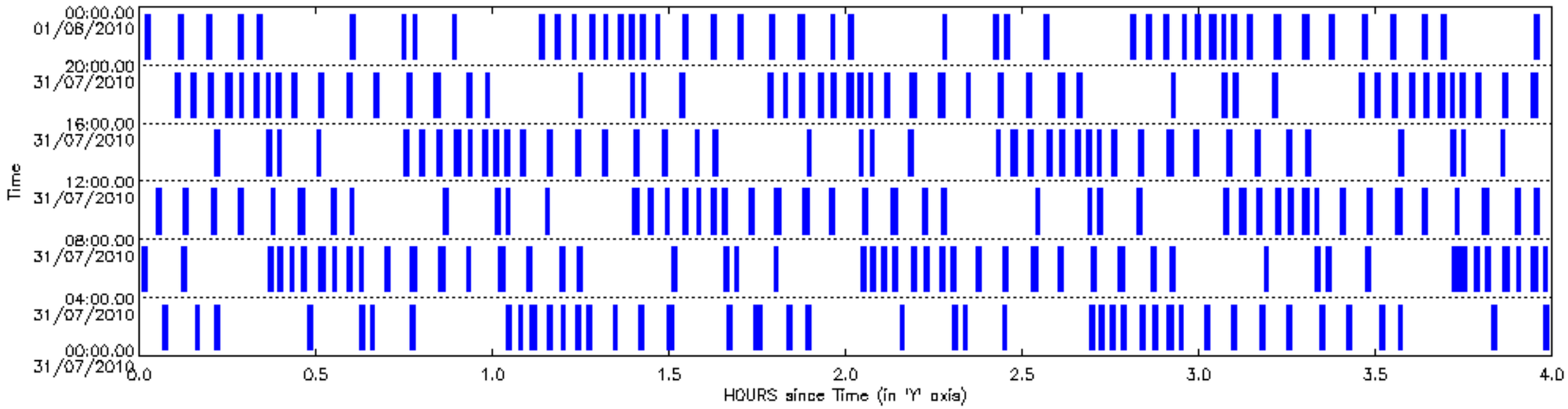
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

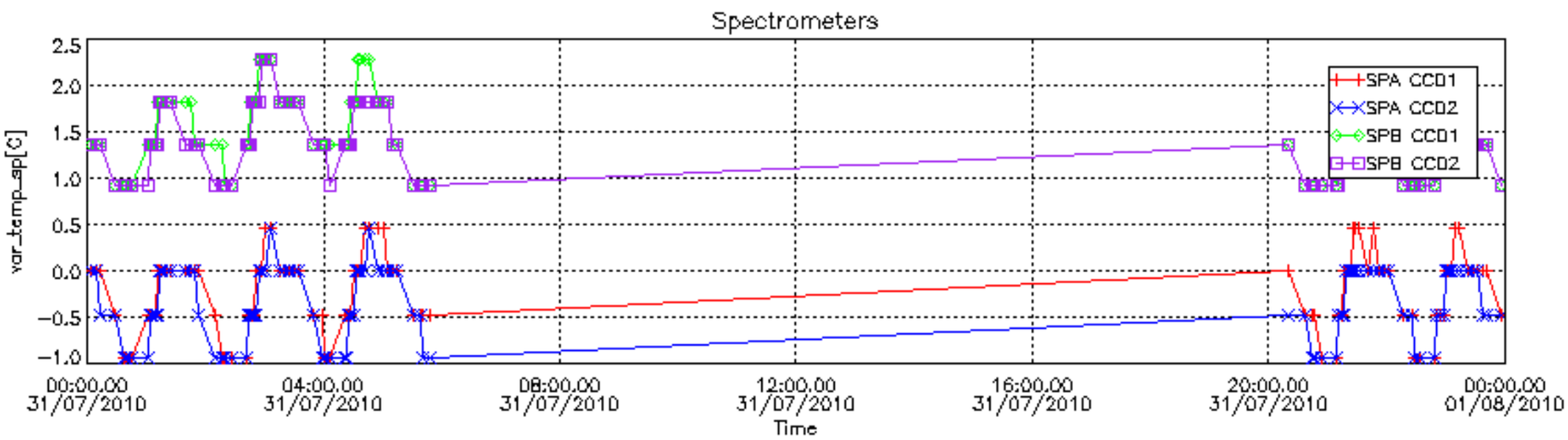


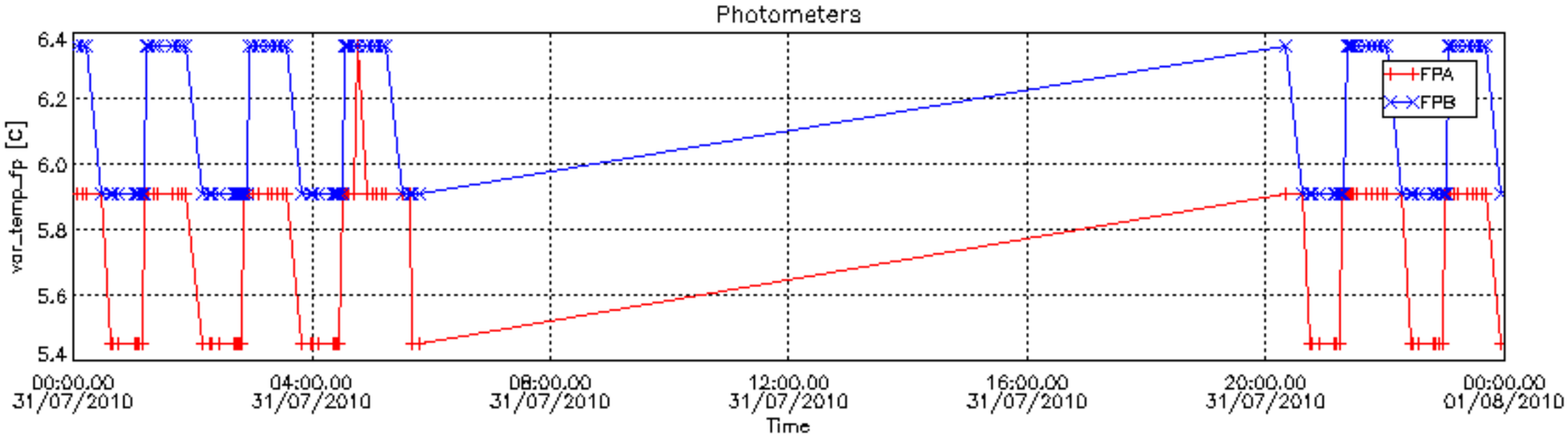
8. Auxiliary Data Files used for the production reported in section 2.4

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

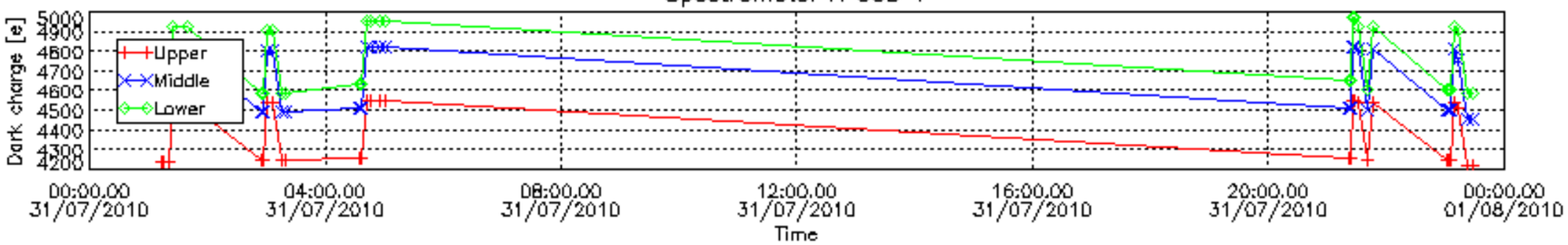
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-JUL-2010 00:03:53
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100727_083506_20100725_000000_20500101_000000	1	31-JUL-2010 00:03:53
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	31-JUL-2010 00:03:53
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	31-JUL-2010 00:03:53
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	31-JUL-2010 00:03:53
ECMWF_FILE	AUX_ECF_AXNECM20100730_084353_20100730_210000_20100731_090000	1	31-JUL-2010 00:03:53
ECMWF_FILE	AUX_ECF_AXNECM20100730_172353_20100731_030000_20100731_150000	44	31-JUL-2010 04:21:56
ECMWF_FILE	AUX_ECF_AXNECM20100731_054116_20100731_150000_20100801_030000	63	31-JUL-2010 20:19:56
ECMWF_FILE	AUX_ECF_AXNECM20100731_054116_20100731_210000_20100801_090000	77	31-JUL-2010 21:32:13
OPTIONAL_ECMWF_FILE	MISSING	1	31-JUL-2010 00:03:53
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100730_233841_000057382091_00359_44000_0856.N1	1	31-JUL-2010 00:03:53
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100730_092352_20100729_192409_20100808_205023	16	31-JUL-2010 01:24:50
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100731_023401_000057382091_00361_44002_0858.N1	25	31-JUL-2010 02:41:21
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100730_092352_20100729_192409_20100808_205023	44	31-JUL-2010 04:21:56
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100731_201639_000038252091_00372_44013_0860.N1	63	31-JUL-2010 20:19:56
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100731_212543_000057382091_00372_44013_0861.N1	77	31-JUL-2010 21:32:13
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100731_230640_000060572091_00373_44014_0862.N1	96	31-JUL-2010 23:12:50


00:00.00
01/08/2010
20:00.00
31/07/2010
16:00.00
31/07/2010
12:00.00
31/07/2010
08:00.00
31/07/2010
04:00.00
31/07/2010
00:00.00
31/07/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

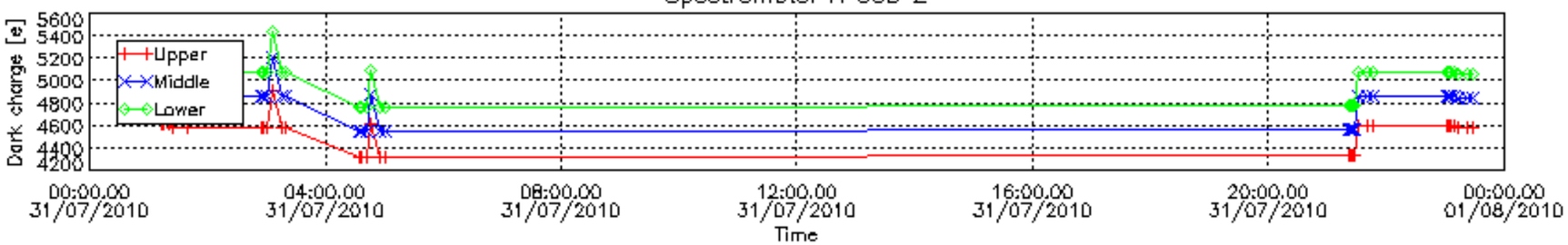

Spectrometers
var_temp_sp[C]
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
31/07/2010
04:00.00
31/07/2010
08:00.00
31/07/2010
12:00.00
31/07/2010
16:00.00
31/07/2010
20:00.00
31/07/2010
00:00.00
01/08/2010
Time


Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
FPA
FPB
00:00.00
31/07/2010
04:00.00
31/07/2010
08:00.00
31/07/2010
12:00.00
31/07/2010
16:00.00
31/07/2010
20:00.00
31/07/2010
00:00.00
01/08/2010
Time

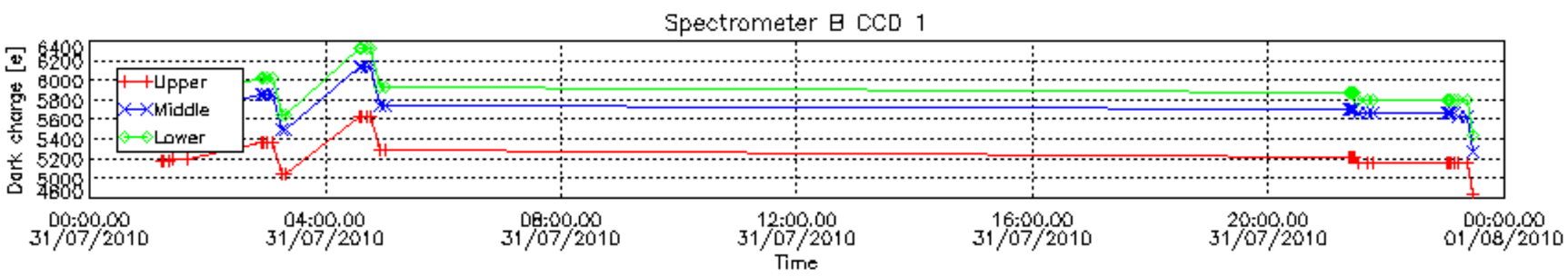
Spectrometer A CCD 1



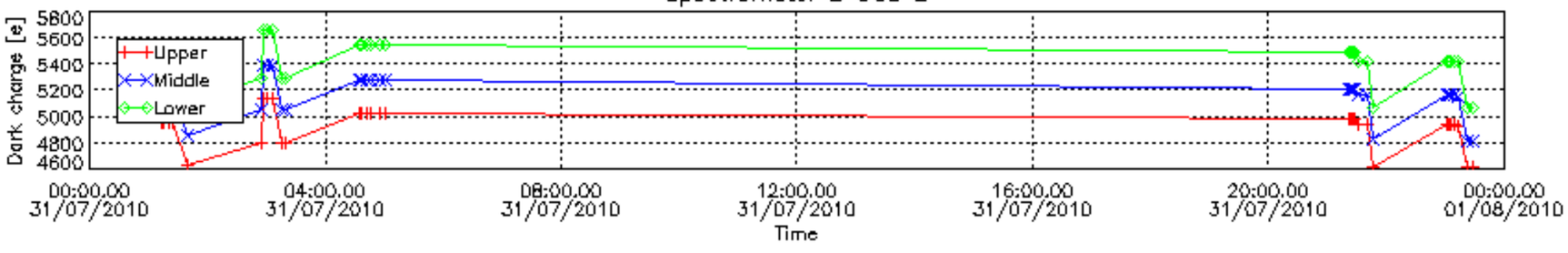
Spectrometer A CCD 2



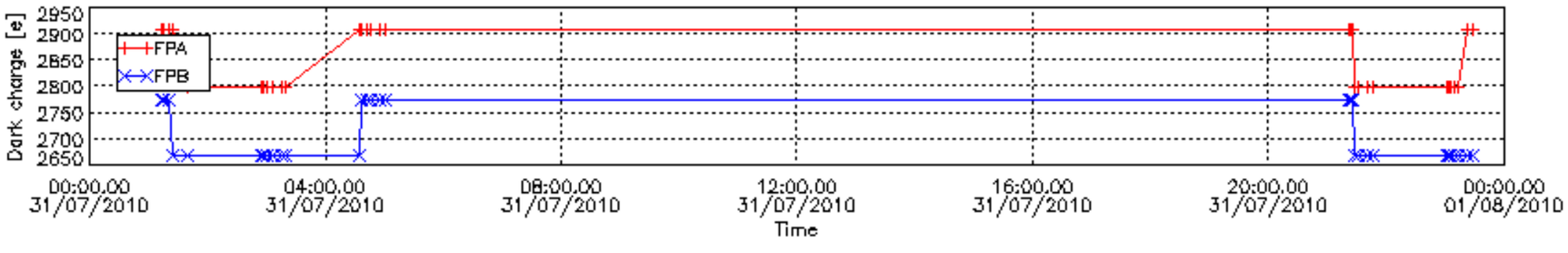
Spectrometer B CCD 1

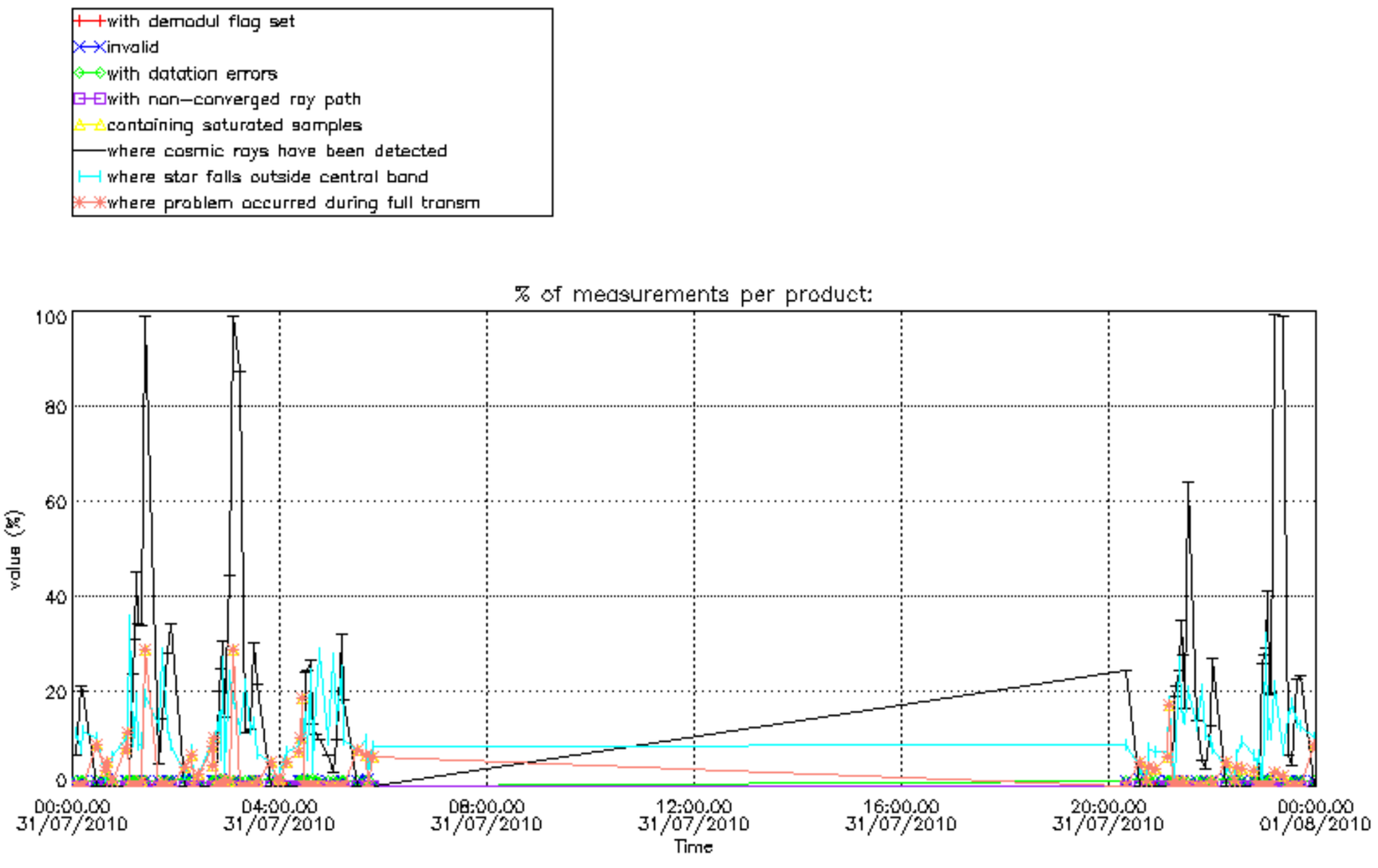


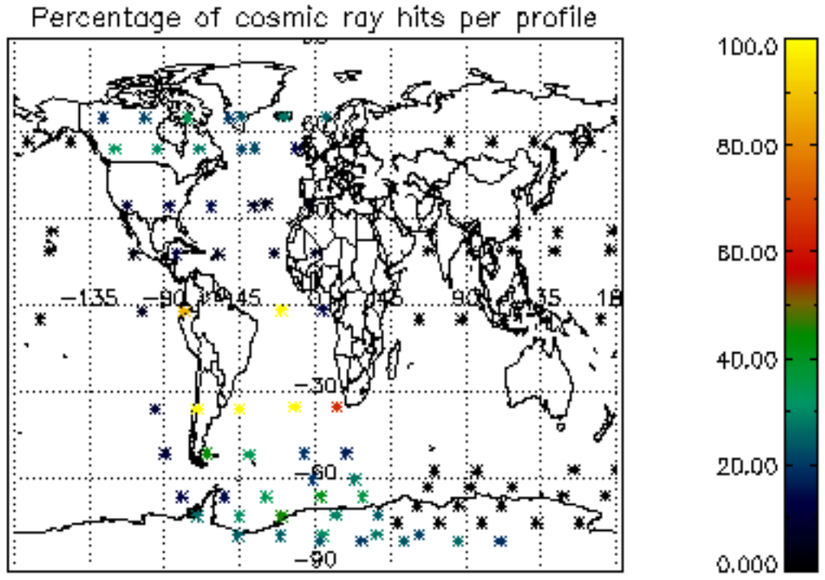
Spectrometer B CCD 2



Photometers




with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00
31/07/2010
04:00.00
31/07/2010
08:00.00
31/07/2010
12:00.00
31/07/2010
16:00.00
31/07/2010
20:00.00
31/07/2010
00:00.00
01/08/2010
Time


Percentage of cosmic ray hits per profile
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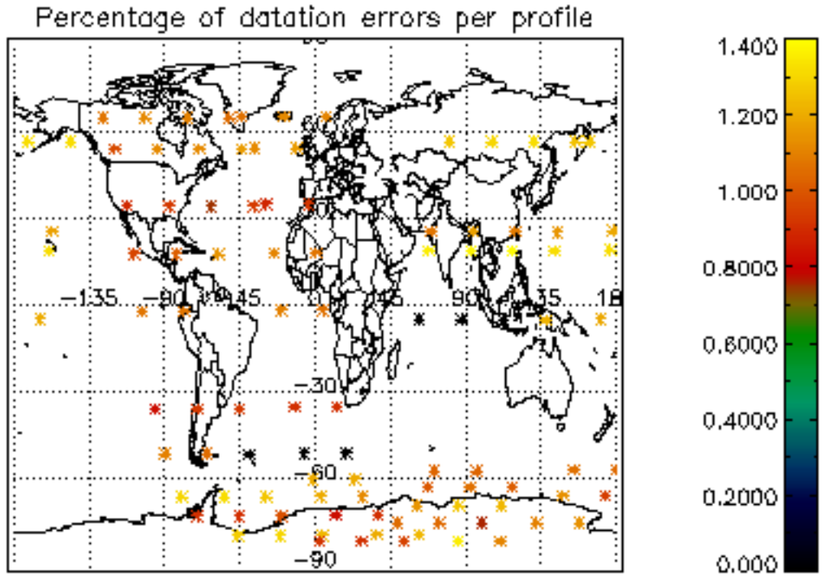
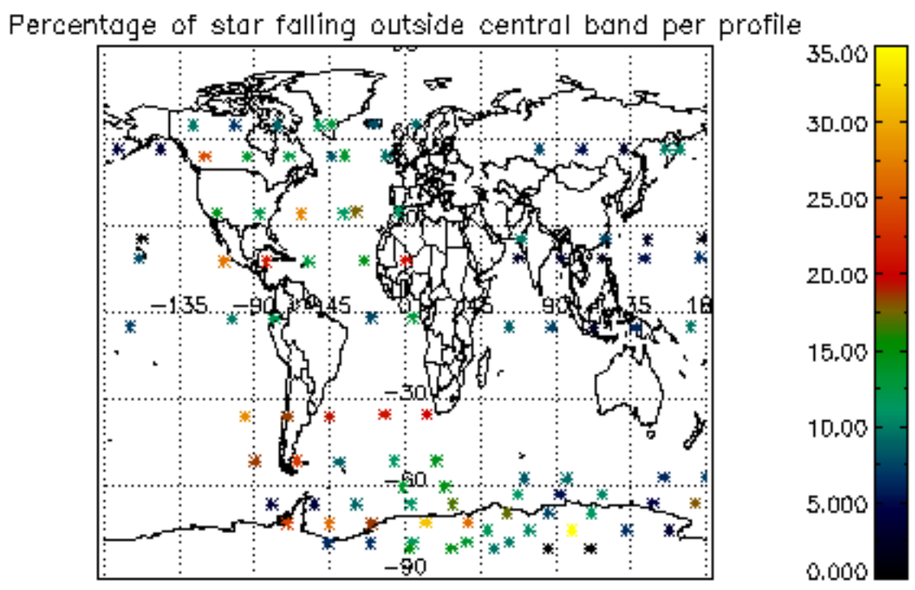
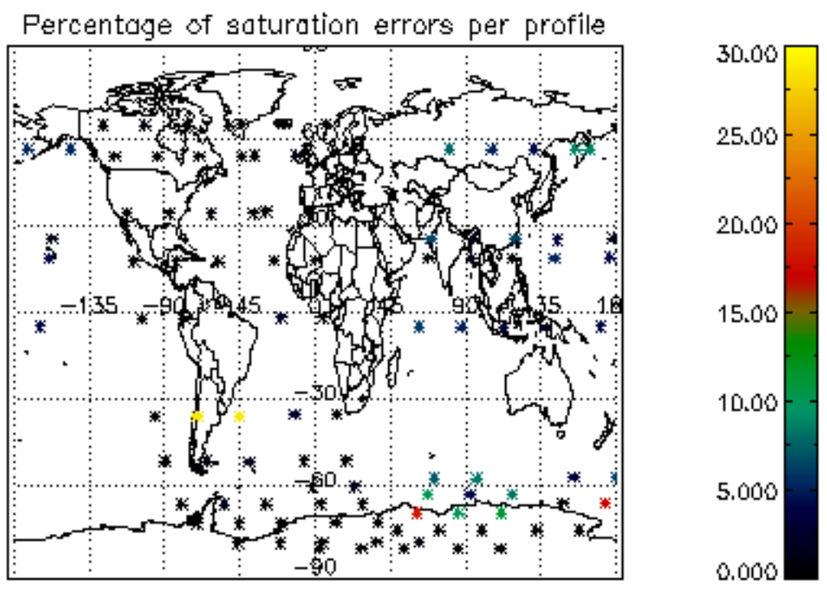
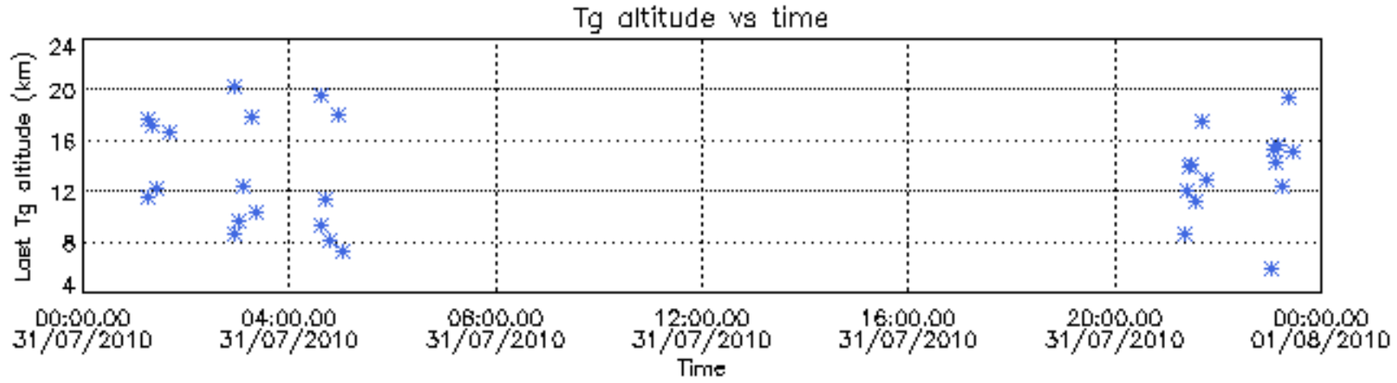
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

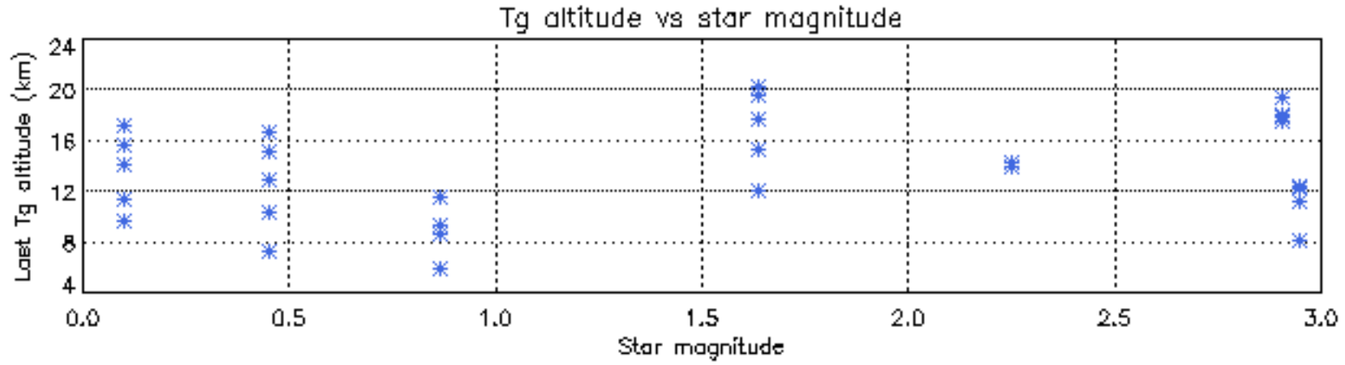

Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

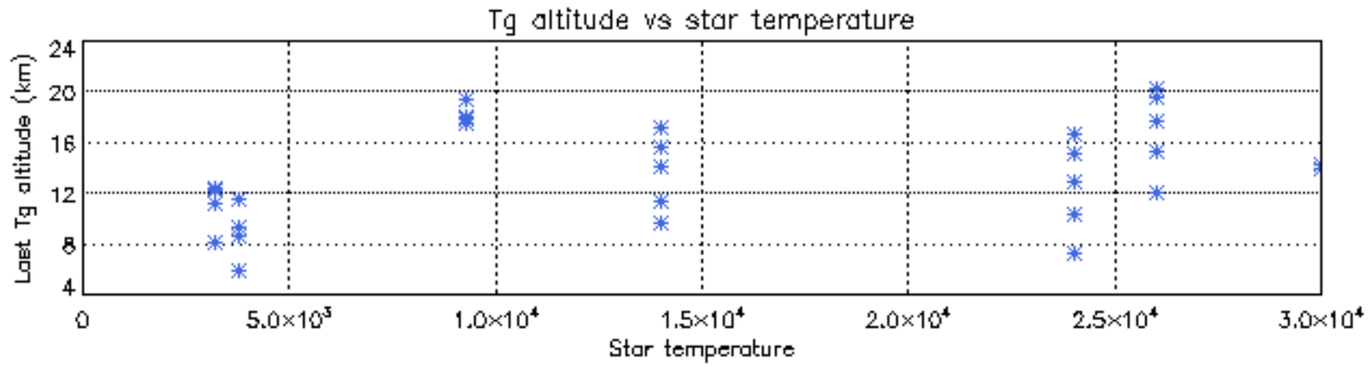

Percentage of star falling outside central band per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

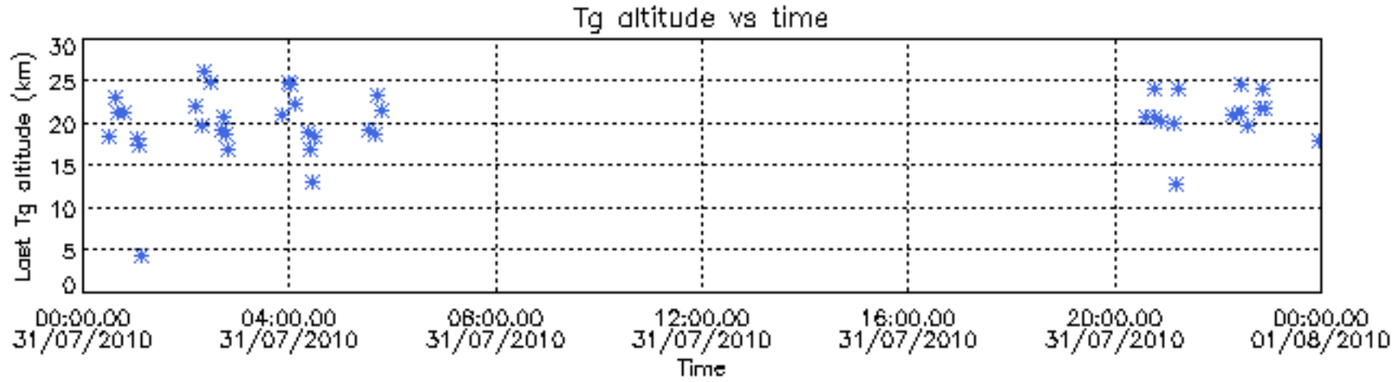
Tangent altitude at which the star is lost

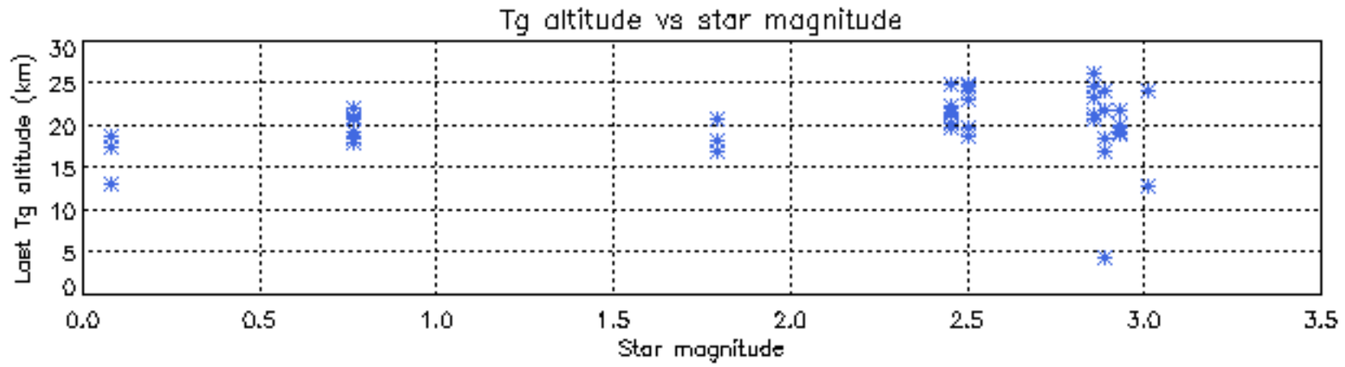


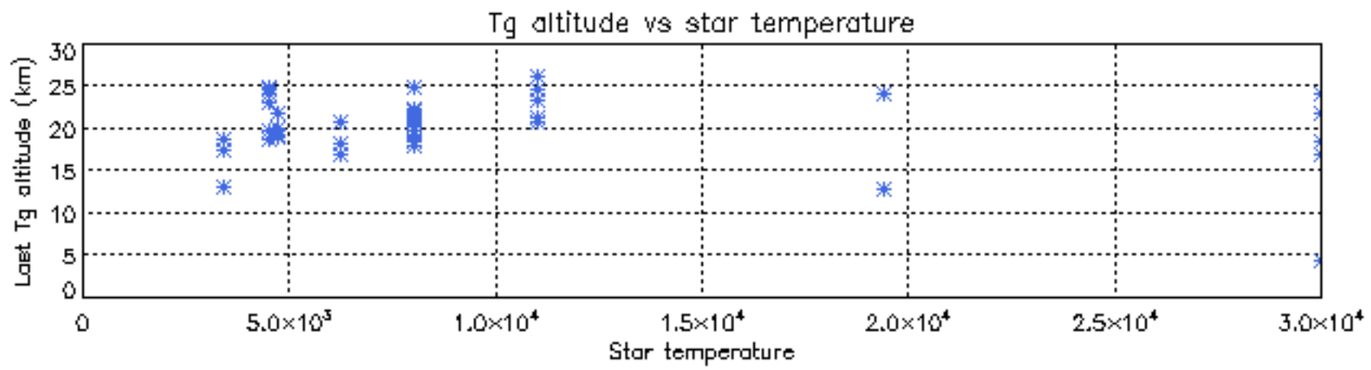


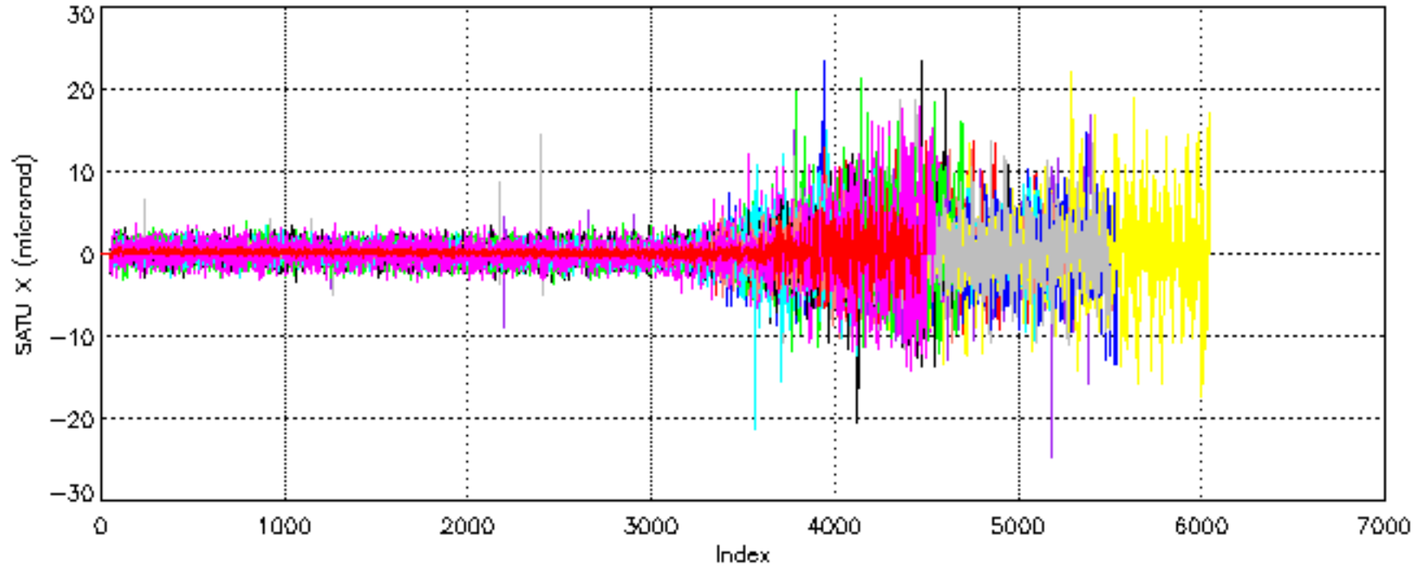


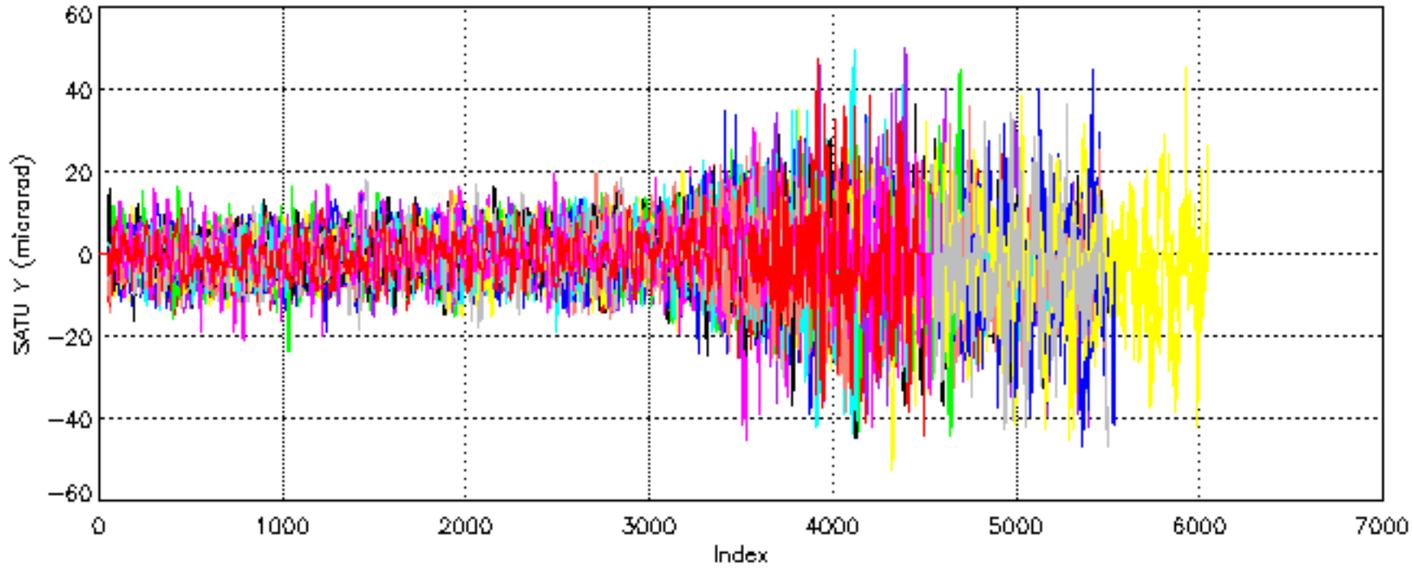
Tangent altitude at which the star is lost

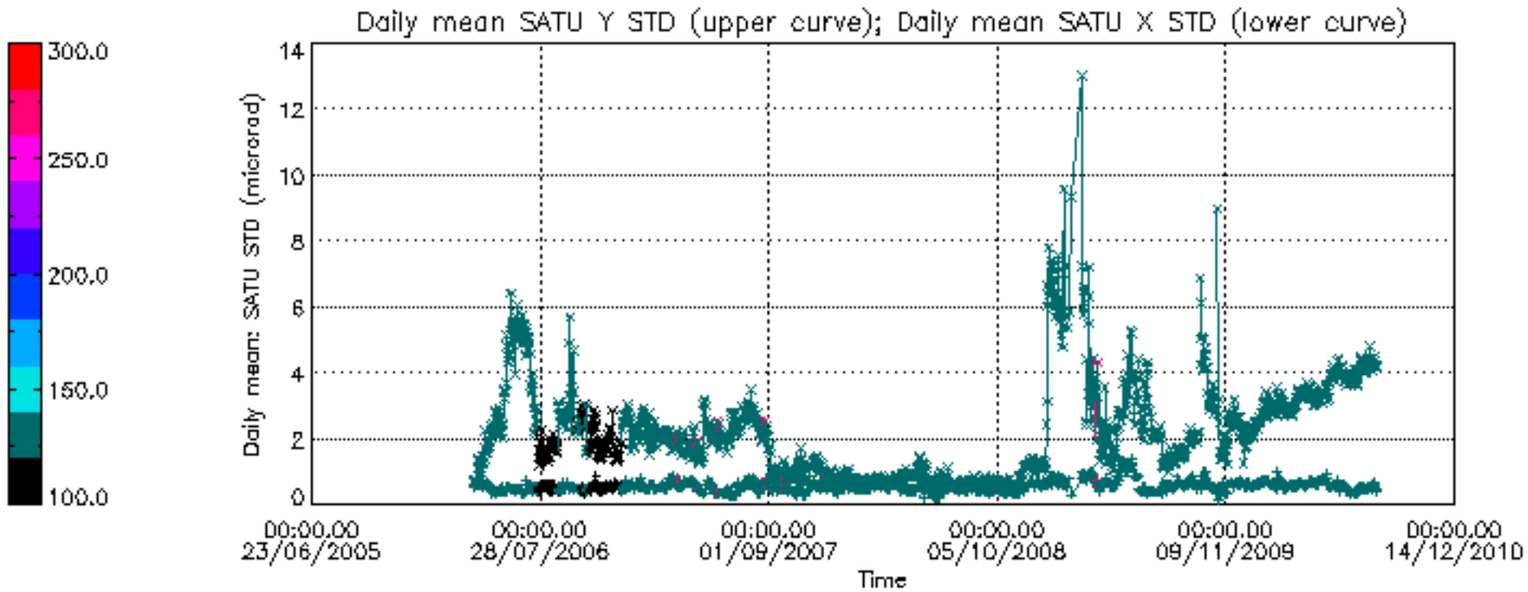







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00
23/06/2005
00:00.00
28/07/2006
00:00.00
01/09/2007
00:00.00
05/10/2008
00:00.00
09/11/2009
00:00.00
14/12/2010
Time

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13; 2925.2; 01-JUL-2010 01:26:09; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43572
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   9;  499.9; 02-JUL-2010 05:15:55; Dark  ;  51.0;   63;   Bet Gru  ; 2.15;  2800;occ; 102;   0;43589
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  11;  790.9; 02-JUL-2010 05:20:46; Dark  ;  56.0;  172;   Gam Gru  ; 3.00; 13100;occ; 112;   0;43589
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  11; 3113.9; 02-JUL-2010 22:45:28; Bright;  60.5;   19; 50Alp Cyg  ; 1.25; 10500;occ; 121;   0;43599
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  15; 4265.0; 02-JUL-2010 23:04:39; Bright;  53.0;   73; 57Gam1And  ; 2.26; 13100;occ; 106;   0;43599
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   3;  123.3; 02-JUL-2010 23:36:14; Dark  ;  49.5;   84;   Alp Phe  ; 2.40;  4500;occ;  99;   0;43600
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   9; 2633.3; 04-JUL-2010 01:27:02; Bright; 42.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 85;   0;43615
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   7;  -91.7; 04-JUL-2010 04:02:49; Dark  ;  88.5;   52; 16Bet Cet  ; 2.04;  4500;occ; 177;   0;43616
   8;  141.3; 04-JUL-2010 04:06:42; Dark  ;  49.0;   84;   Alp Phe  ; 2.40;  4500;occ;  98;   0;43617
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   3;-1772.6; 04-JUL-2010 05:15:24; Bright;  55.5;   73; 57Gam1And  ; 2.26; 13100;occ; 111;   0;43617
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2; -4.4; 07-JUL-2010 00:48:50; Dark ; 76.0; 52; 16Bet Cet ; 2.04; 4500;occ; 152; 0;43657
3; 185.2; 07-JUL-2010 00:51:59; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43658
4; 565.1; 07-JUL-2010 00:58:19; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;43658
5; 719.8; 07-JUL-2010 01:00:54; Dark ; 80.5; 18; 24Alp PsA ; 1.17; 9700;occ; 161; 0;43658
6; 859.4; 07-JUL-2010 01:03:14; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43658
7; 2193.7; 07-JUL-2010 01:25:28; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;43658
8; 2616.5; 07-JUL-2010 01:32:31; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43658
9; 2856.6; 07-JUL-2010 01:36:31; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43658
10; 3045.6; 07-JUL-2010 01:39:40; Bright; 81.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 162; 0;43658
11; 3288.6; 07-JUL-2010 01:43:43; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43658
12; 3738.8; 07-JUL-2010 01:51:13; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;43658
13; 3850.2; 07-JUL-2010 01:53:04; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;43658
14; 4259.3; 07-JUL-2010 01:59:53; Bright; 52.0; 73; 57Gam1And ; 2.26; 13100;occ; 104; 0;43658
15; 4418.8; 07-JUL-2010 02:02:33; Dark ; 77.0; 53; 43Bet And ; 2.05; 3300;occ; 154; 0;43658
16; 4710.9; 07-JUL-2010 02:07:25; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;43658
17; 5017.2; 07-JUL-2010 02:12:31; Dark ; 55.0; 94; 92Alp Cet ; 2.53; 3100;occ; 110; 0;43658
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3; 186.6; 07-JUL-2010 02:32:37; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43659
4; 566.1; 07-JUL-2010 02:38:56; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;43659
5; 721.8; 07-JUL-2010 02:41:32; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43659
6; 860.6; 07-JUL-2010 02:43:51; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;43659
7; 2616.4; 07-JUL-2010 03:13:06; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;43659
8; 2855.7; 07-JUL-2010 03:17:06; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;43659
9; 3044.4; 07-JUL-2010 03:20:14; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;43659
10; 3288.0; 07-JUL-2010 03:24:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43659
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2;-2185.9; 07-JUL-2010 03:33:40; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43659

   3;-1776.4; 07-JUL-2010 03:40:30; Bright; 51.5;   73; 57Gam1And ; 2.26; 13100;occ; 103;   0;43659
   4;-1617.2; 07-JUL-2010 03:43:09; Dark ; 77.0;   53; 43Bet And ; 2.05; 3300;occ; 154;   0;43659
   5;-1324.7; 07-JUL-2010 03:48:01; Dark ; 64.0;   50; 13Alp Ari ; 2.01; 4250;occ; 128;   0;43659
   6;-1018.5; 07-JUL-2010 03:53:08; Dark ; 52.5;   94; 92Alp Cet ; 2.53; 3100;occ; 105;   0;43659
   7; -451.5; 07-JUL-2010 04:02:34; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;43659
   8;   0.5; 07-JUL-2010 04:10:06; Dark ; 71.0;   52; 16Bet Cet ; 2.04; 4500;occ; 142;   0;43659
   9; 187.6; 07-JUL-2010 04:13:14; Dark ; 50.0;   84;   Alp Phe ; 2.40; 4500;occ; 100;   0;43660
  10; 567.3; 07-JUL-2010 04:19:33; Dark ; 51.5;   63;   Bet Gru ; 2.15; 2800;occ; 103;   0;43660
  11; 723.1; 07-JUL-2010 04:22:09; Dark ; 82.5;   18; 24Alp PsA ; 1.17; 9700;occ; 165;   0;43660
  12; 861.3; 07-JUL-2010 04:24:27; Dark ; 56.0; 172;   Gam Gru ; 3.00; 13100;occ; 112;   0;43660
  13; 2192.8; 07-JUL-2010 04:46:39; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89;   0;43660
  14; 2616.1; 07-JUL-2010 04:53:42; Bright; 43.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 86;   0;43660
  15; 2855.0; 07-JUL-2010 04:57:41; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95;   0;43660
  16; 3043.1; 07-JUL-2010 05:00:49; Bright; 55.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 111;   0;43660
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   3;-1776.7; 07-JUL-2010 05:21:05; Bright; 55.0;   73; 57Gam1And ; 2.26; 13100;occ; 110;   0;43660
   4;-1617.2; 07-JUL-2010 05:23:45; Dark ; 71.0;   53; 43Bet And ; 2.05; 3300;occ; 142;   0;43660
   5;-1324.5; 07-JUL-2010 05:28:38; Dark ; 71.0;   50; 13Alp Ari ; 2.01; 4250;occ; 142;   0;43660
   6;-1017.7; 07-JUL-2010 05:33:44; Dark ; 52.0;   94; 92Alp Cet ; 2.53; 3100;occ; 104;   0;43660
   7; -450.5; 07-JUL-2010 05:43:12; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;43660
   8;   2.4; 07-JUL-2010 05:50:44; Dark ; 66.0;   52; 16Bet Cet ; 2.04; 4500;occ; 132;   0;43660
   9; 188.8; 07-JUL-2010 05:53:51; Dark ; 55.0;   84;   Alp Phe ; 2.40; 4500;occ; 110;   0;43661
  10; 568.1; 07-JUL-2010 06:00:10; Dark ; 51.0;   63;   Bet Gru ; 2.15; 2800;occ; 102;   0;43661
  11; 724.8; 07-JUL-2010 06:02:47; Dark ; 83.0;   18; 24Alp PsA ; 1.17; 9700;occ; 166;   0;43661
  12; 862.3; 07-JUL-2010 06:05:04; Dark ; 54.0; 172;   Gam Gru ; 3.00; 13100;occ; 108;   0;43661
  13; 2193.0; 07-JUL-2010 06:27:15; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89;   0;43661
  14; 2619.9; 07-JUL-2010 06:34:22; Bright; 36.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 72;   0;43661
  15; 2854.5; 07-JUL-2010 06:38:17; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92;   0;43661
  16; 3041.8; 07-JUL-2010 06:41:24; Bright; 57.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 115;   0;43661
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   2; 2848.1; 07-JUL-2010 21:43:34; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90;   0;43670
   3; 3032.2; 07-JUL-2010 21:46:38; Bright; 56.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 112;   0;43670
   4; 3281.1; 07-JUL-2010 21:50:47; Bright; 42.0;   89; 5Alp Cep ; 2.45; 8000;occ; 84;   0;43670
   5; 3731.7; 07-JUL-2010 21:58:17; Bright; 51.0;   74; 11Bet Cas ; 2.27; 6600;occ; 102;   0;43670
   6; 3846.0; 07-JUL-2010 22:00:12; Bright; 43.0; 110; 37Del Cas ; 2.68; 8900;occ; 86;   0;43670
   7; 4258.0; 07-JUL-2010 22:07:04; Bright; 57.5;   73; 57Gam1And ; 2.26; 13100;occ; 115;   0;43670
   8; 4418.6; 07-JUL-2010 22:09:44; Dark ; 43.0;   53; 43Bet And ; 2.05; 3300;occ; 86;   0;43670
   9; 4715.8; 07-JUL-2010 22:14:41; Dark ; 63.5;   50; 13Alp Ari ; 2.01; 4250;occ; 127;   0;43670
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   1; -439.3; 07-JUL-2010 22:29:22; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;43670
   2;   25.7; 07-JUL-2010 22:37:07; Dark ; 41.0;   52; 16Bet Cet ; 2.04; 4500;occ; 82;   0;43671
   3; 199.3; 07-JUL-2010 22:40:01; Dark ; 50.5;   84;   Alp Phe ; 2.40; 4500;occ; 101;   0;43671
   4; 577.2; 07-JUL-2010 22:46:19; Dark ; 63.0;   63;   Bet Gru ; 2.15; 2800;occ; 126;   0;43671
   5; 741.1; 07-JUL-2010 22:49:02; Dark ; 82.0;   18; 24Alp PsA ; 1.17; 9700;occ; 164;   0;43671
   6; 871.8; 07-JUL-2010 22:51:13; Dark ; 53.5; 172;   Gam Gru ; 3.00; 13100;occ; 107;   0;43671
   7; 2189.4; 07-JUL-2010 23:13:11; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84;   0;43671
   8; 2847.5; 07-JUL-2010 23:24:09; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94;   0;43671
   9; 3031.3; 07-JUL-2010 23:27:13; Bright; 55.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 110;   0;43671
  10; 3280.2; 07-JUL-2010 23:31:22; Bright; 42.5;   89; 5Alp Cep ; 2.45; 8000;occ; 85;   0;43671
  11; 3731.1; 07-JUL-2010 23:38:53; Bright; 50.0;   74; 11Bet Cas ; 2.27; 6600;occ; 100;   0;43671
  12; 3845.8; 07-JUL-2010 23:40:47; Bright; 43.0; 110; 37Del Cas ; 2.68; 8900;occ; 86;   0;43671
  13; 4257.8; 07-JUL-2010 23:47:39; Bright; 57.0;   73; 57Gam1And ; 2.26; 13100;occ; 114;   0;43671
  14; 4418.8; 07-JUL-2010 23:50:20; Dark ; 43.0;   53; 43Bet And ; 2.05; 3300;occ; 86;   0;43671
  15; 4715.9; 07-JUL-2010 23:55:17; Dark ; 67.5;   50; 13Alp Ari ; 2.01; 4250;occ; 135;   0;43671
  16; 5023.9; 08-JUL-2010 00:00:25; Dark ; 54.5;   94; 92Alp Cet ; 2.53; 3100;occ; 109;   0;43671
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   1; -438.3; 08-JUL-2010 00:09:59; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;43671
   2;   27.9; 08-JUL-2010 00:17:45; Dark ; 41.0;   52; 16Bet Cet ; 2.04; 4500;occ; 82;   0;43672
   3; 200.8; 08-JUL-2010 00:20:38; Dark ; 49.5;   84;   Alp Phe ; 2.40; 4500;occ; 99;   0;43672
   4; 578.0; 08-JUL-2010 00:26:55; Dark ; 51.5;   63;   Bet Gru ; 2.15; 2800;occ; 103;   0;43672
   5; 742.6; 08-JUL-2010 00:29:40; Dark ; 81.0;   18; 24Alp PsA ; 1.17; 9700;occ; 162;   0;43672
   6; 872.2; 08-JUL-2010 00:31:49; Dark ; 55.0; 172;   Gam Gru ; 3.00; 13100;occ; 110;   0;43672

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   7; 2189.1; 08-JUL-2010 00:53:46; Bright;  42.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  85;   0;43672
   8; 2846.6; 08-JUL-2010 01:04:44; Bright;  44.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  89;   0;43672
   9; 3030.1; 08-JUL-2010 01:07:47; Bright;  55.0;   19; 50Alp Cyg  ; 1.25; 10500;occ; 110;   0;43672
  10; 3279.4; 08-JUL-2010 01:11:57; Bright;  44.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  88;   0;43672
  11; 3730.8; 08-JUL-2010 01:19:28; Bright;  50.0;   74; 11Bet Cas  ; 2.27;  6600;occ; 100;   0;43672
  12; 3845.4; 08-JUL-2010 01:21:23; Bright;  42.0;  110; 37Del Cas  ; 2.68;  8900;occ;  84;   0;43672
  13; 4257.9; 08-JUL-2010 01:28:15; Bright;  52.5;   73; 57Gam1And  ; 2.26; 13100;occ; 105;   0;43672
  14; 4418.4; 08-JUL-2010 01:30:56; Dark  ;  37.0;   53; 43Bet And  ; 2.05;  3300;occ;  74;   0;43672
  15; 4716.8; 08-JUL-2010 01:35:54; Dark  ;  64.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 128;   0;43672
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   2;   30.2; 08-JUL-2010 01:58:23; Dark  ;  36.0;   52; 16Bet Cet  ; 2.04;  4500;occ;  72;   0;43673
   3;  201.8; 08-JUL-2010 02:01:15; Dark  ;  51.0;   84;   Alp Phe  ; 2.40;  4500;occ; 102;   0;43673
   4;  578.9; 08-JUL-2010 02:07:32; Dark  ;  64.0;   63;   Bet Gru  ; 2.15;  2800;occ; 128;   0;43673
   5;  744.3; 08-JUL-2010 02:10:17; Dark  ;  79.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 158;   0;43673
   6;  873.7; 08-JUL-2010 02:12:27; Dark  ;  54.5;  172;   Gam Gru  ; 3.00; 13100;occ; 109;   0;43673
   7; 2188.6; 08-JUL-2010 02:34:22; Bright;  44.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  89;   0;43673
   8; 2846.2; 08-JUL-2010 02:45:19; Bright;  42.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  85;   0;43673
   9; 3029.0; 08-JUL-2010 02:48:22; Bright;  57.0;   19; 50Alp Cyg  ; 1.25; 10500;occ; 114;   0;43673
  10; 3279.0; 08-JUL-2010 02:52:32; Bright;  43.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  86;   0;43673
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   2;-2190.8; 08-JUL-2010 03:01:58; Bright;  44.0;  110; 37Del Cas  ; 2.68;  8900;occ;  88;   0;43673
   3;-1778.0; 08-JUL-2010 03:08:51; Bright;  56.5;   73; 57Gam1And  ; 2.26; 13100;occ; 113;   0;43673
   4;-1617.6; 08-JUL-2010 03:11:32; Dark  ;  37.0;   53; 43Bet And  ; 2.05;  3300;occ;  74;   0;43673
   5;-1318.9; 08-JUL-2010 03:16:30; Dark  ;  66.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 132;   0;43673
   6;-1010.8; 08-JUL-2010 03:21:38; Dark  ;  45.5;   94; 92Alp Cet  ; 2.53;  3100;occ;  91;   0;43673
   7; -436.0; 08-JUL-2010 03:31:13; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;43673
   8;   32.5; 08-JUL-2010 03:39:02; Dark  ;  36.0;   52; 16Bet Cet  ; 2.04;  4500;occ;  72;   0;43674
   9;  203.1; 08-JUL-2010 03:41:52; Dark  ;  50.0;   84;   Alp Phe  ; 2.40;  4500;occ; 100;   0;43674
  10;  580.0; 08-JUL-2010 03:48:09; Dark  ;  52.5;   63;   Bet Gru  ; 2.15;  2800;occ; 105;   0;43674
  11;  745.9; 08-JUL-2010 03:50:55; Dark  ;  81.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 162;   0;43674
  12;  874.4; 08-JUL-2010 03:53:04; Dark  ;  56.0;  172;   Gam Gru  ; 3.00; 13100;occ; 112;   0;43674
  13; 2188.4; 08-JUL-2010 04:14:57; Bright;  43.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  87;   0;43674
  14; 2845.4; 08-JUL-2010 04:25:55; Bright;  45.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  91;   0;43674
  15; 3027.9; 08-JUL-2010 04:28:57; Bright;  56.5;   19; 50Alp Cyg  ; 1.25; 10500;occ; 113;   0;43674
  16; 3278.3; 08-JUL-2010 04:33:07; Bright;  44.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  89;   0;43674
  17; 3729.4; 08-JUL-2010 04:40:38; Bright;   1.5;   74; 11Bet Cas  ; 2.27;  6600;occ;   3;   0;43674
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   2;-2191.2; 08-JUL-2010 04:42:34; Bright;  46.0;  110; 37Del Cas  ; 2.68;  8900;occ;  92;   0;43674
   3;-1778.2; 08-JUL-2010 04:49:27; Bright;  54.5;   73; 57Gam1And  ; 2.26; 13100;occ; 109;   0;43674
   4;-1617.5; 08-JUL-2010 04:52:08; Dark  ;  31.0;   53; 43Bet And  ; 2.05;  3300;occ;  62;   0;43674
   5;-1318.3; 08-JUL-2010 04:57:07; Dark  ;  63.0;   50; 13Alp Ari  ; 2.01;  4250;occ; 126;   0;43674
   6;-1010.4; 08-JUL-2010 05:02:15; Dark  ;  44.5;   94; 92Alp Cet  ; 2.53;  3100;occ;  89;   0;43674
   7; -434.9; 08-JUL-2010 05:11:50; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;43674
   8;   34.9; 08-JUL-2010 05:19:40; Dark  ;  31.0;   52; 16Bet Cet  ; 2.04;  4500;occ;  62;   0;43675
   9;  203.8; 08-JUL-2010 05:22:29; Dark  ;  58.5;   84;   Alp Phe  ; 2.40;  4500;occ; 117;   0;43675
  10;  580.9; 08-JUL-2010 05:28:46; Dark  ;  51.5;   63;   Bet Gru  ; 2.15;  2800;occ; 103;   0;43675
  11;  747.2; 08-JUL-2010 05:31:32; Dark  ;  80.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 160;   0;43675
  12;  875.5; 08-JUL-2010 05:33:41; Dark  ;  53.5;  172;   Gam Gru  ; 3.00; 13100;occ; 107;   0;43675
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   7; 4122.6; 14-JUL-2010 10:00:30; Bright;  39.5;   35; 33Alp Per  ; 1.79;  6250;occ;  79;   0;43763
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  22; 5447.1; 16-JUL-2010 02:36:57; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;43787
  23; 5822.1; 16-JUL-2010 02:43:12; Dark  ;  43.0;  157;   The1Eri  ; 2.91;  9300;occ;  86;   0;43787
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   9; 2698.6; 31-JUL-2010 00:39:18; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;44001
  10; 3098.7; 31-JUL-2010 00:45:58; Bright;  41.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  82;   0;44001
  11; 4083.1; 31-JUL-2010 01:02:23; Bright;  49.0;   35; 33Alp Per  ; 1.79;  6250;occ;  98;   0;44001
  12; 4199.9; 31-JUL-2010 01:04:20; Bright;  40.5;    6; 13Alp Aur  ; 0.08;  3400;occ;  81;   0;44001
  13; 4315.9; 31-JUL-2010 01:06:16; Bright;  66.0;  149; 45Eps Per  ; 2.89; 30000;occ; 132;   0;44001
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   9; 2698.1; 31-JUL-2010 02:19:54; Bright;  36.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  72;   0;44002
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   9; -870.8; 31-JUL-2010 03:01:01; Dark  ;  47.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  95;   0;44002
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  11; -313.5; 31-JUL-2010 03:10:18; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;44002
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   4;-1720.1; 31-JUL-2010 06:08:03; Bright;  46.0;  149; 45Eps Per  ; 2.89; 30000;occ;  92;   0;44004
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   7;-1252.4; 31-JUL-2010 06:15:51; Dark  ;  52.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 104;   0;44004
   8;-1131.5; 31-JUL-2010 06:17:52; Dark  ;  40.5;   27; 24Gam Ori  ; 1.64; 26000;occ;  81;   0;44004
   9; -869.6; 31-JUL-2010 06:22:14; Dark  ;  46.5;    7; 19Bet Ori  ; 0.10; 14000;occ;  93;   0;44004
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   3; 2698.0; 31-JUL-2010 07:21:42; Bright;  37.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  75;   0;44005
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   9; 4636.4; 31-JUL-2010 09:34:36; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76;   0;44006
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  11; 4905.4; 31-JUL-2010 11:19:41; Dark ; 43.0;   27; 24Gam Ori ; 1.64; 26000;occ; 86;   0;44007
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   7; 4315.6; 31-JUL-2010 12:50:27; Bright; 56.5; 149; 45Eps Per ; 2.89; 30000;occ; 113;   0;44008
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   9; 4636.6; 31-JUL-2010 12:55:48; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82;   0;44008
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  13; 5168.0; 31-JUL-2010 13:04:39; Dark ; 44.5;   7; 19Bet Ori ; 0.10; 14000;occ; 89;   0;44008
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   2; -305.3; 31-JUL-2010 23:17:37; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;44014
   3;  -28.5; 31-JUL-2010 23:22:14; Dark  ;  45.5;  157;   The1Eri  ; 2.91;  9300;occ;  91;   0;44014
   4;  303.7; 31-JUL-2010 23:27:46; Dark  ;  45.0;    9;   Alp Eri  ; 0.45; 24000;occ;  90;   0;44015
   5;  587.9; 31-JUL-2010 23:32:31; Dark  ;  57.0;   84;   Alp Phe  ; 2.40;  4500;occ; 114;   0;44015
   6;  917.0; 31-JUL-2010 23:38:00; Dark  ;  44.5;   31;   Alp Gru  ; 1.73; 15200;occ;  89;   0;44015
   7; 1105.7; 31-JUL-2010 23:41:08; Dark  ;  47.0;  172;   Gam Gru  ; 3.00; 13100;occ;  94;   0;44015
   8; 2059.7; 31-JUL-2010 23:57:02; Bright;  39.5;   11; 53Alp Aql  ; 0.76;  8000;occ;  79;   0;44015
   9; 2581.6; 01-AUG-2010 00:05:44; Bright;  45.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  90;   0;44015
  10; 2695.4; 01-AUG-2010 00:07:38; Bright;  35.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  70;   0;44015
  11; 3092.6; 01-AUG-2010 00:14:15; Bright;  39.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  79;   0;44015
  12; 3980.4; 01-AUG-2010 00:29:03; Bright;  46.5;  160; 23Gam Per  ; 2.93;  4700;occ;  93;   0;44015
  13; 4139.1; 01-AUG-2010 00:31:42; Bright;  46.5;  175; 39Del Per  ; 3.01; 19400;occ;  93;   0;44015
  14; 4315.6; 01-AUG-2010 00:34:38; Bright;  46.0;  149; 45Eps Per  ; 2.89; 30000;occ;  92;   0;44015
  15; 4500.3; 01-AUG-2010 00:37:43; Dark  ;  37.0;  150; 44Zet Per  ; 2.89; 28000;occ;  74;   0;44015
  16; 4637.7; 01-AUG-2010 00:40:01; Dark  ;  39.5;  176; 23Zet Tau  ; 3.02; 22000;occ;  79;   0;44015
  17; 4787.6; 01-AUG-2010 00:42:30; Dark  ;  59.5;   13; 87Alp Tau  ; 0.87;  3800;occ; 119;   0;44015
  18; 4908.2; 01-AUG-2010 00:44:31; Dark  ;  39.5;   27; 24Gam Ori  ; 1.64; 26000;occ;  79;   0;44015
  19; 5013.3; 01-AUG-2010 00:46:16; Dark  ;  40.0;   72; 34Del Ori  ; 2.25; 30000;occ;  80;   0;44015
  20; 5170.5; 01-AUG-2010 00:48:53; Dark  ;  52.0;    7; 19Bet Ori  ; 0.10; 14000;occ; 104;   0;44015
  21; 5443.2; 01-AUG-2010 00:53:26; Dark  ;   4.5;  165; 34Gam Eri  ; 2.95;  3200;occ;   9;   0;44015
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