GOMOS Daily Report 26-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.

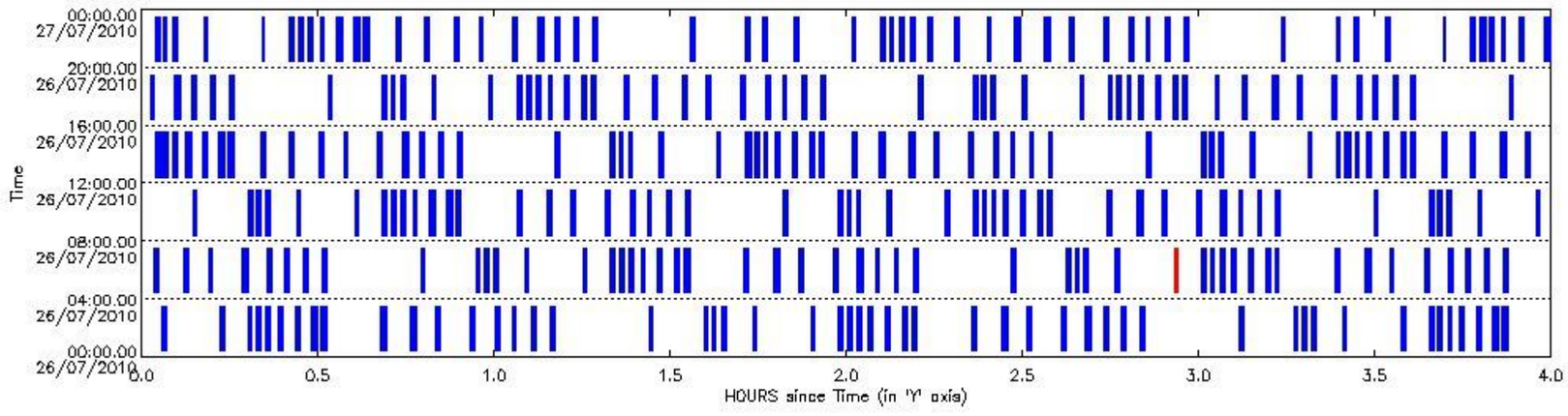
Item	Value
Time of report generation	30JUL2010 05:04:49
Data source version	GOMOS/5.01
Start time of products	26JUL2010 00:03:25
Stop time of products	26JUL2010 23:58:58
Store outputs in DB	Yes
Nb of level 1b prods	133
Nb of prods with errors	1

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

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

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

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



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

UTC start time	Star name	Star ID	Orbit
26-JUL-2010 06:55:48	37DelCas	110	43933

2.4 Summary of processed GOM_TRA_1P products

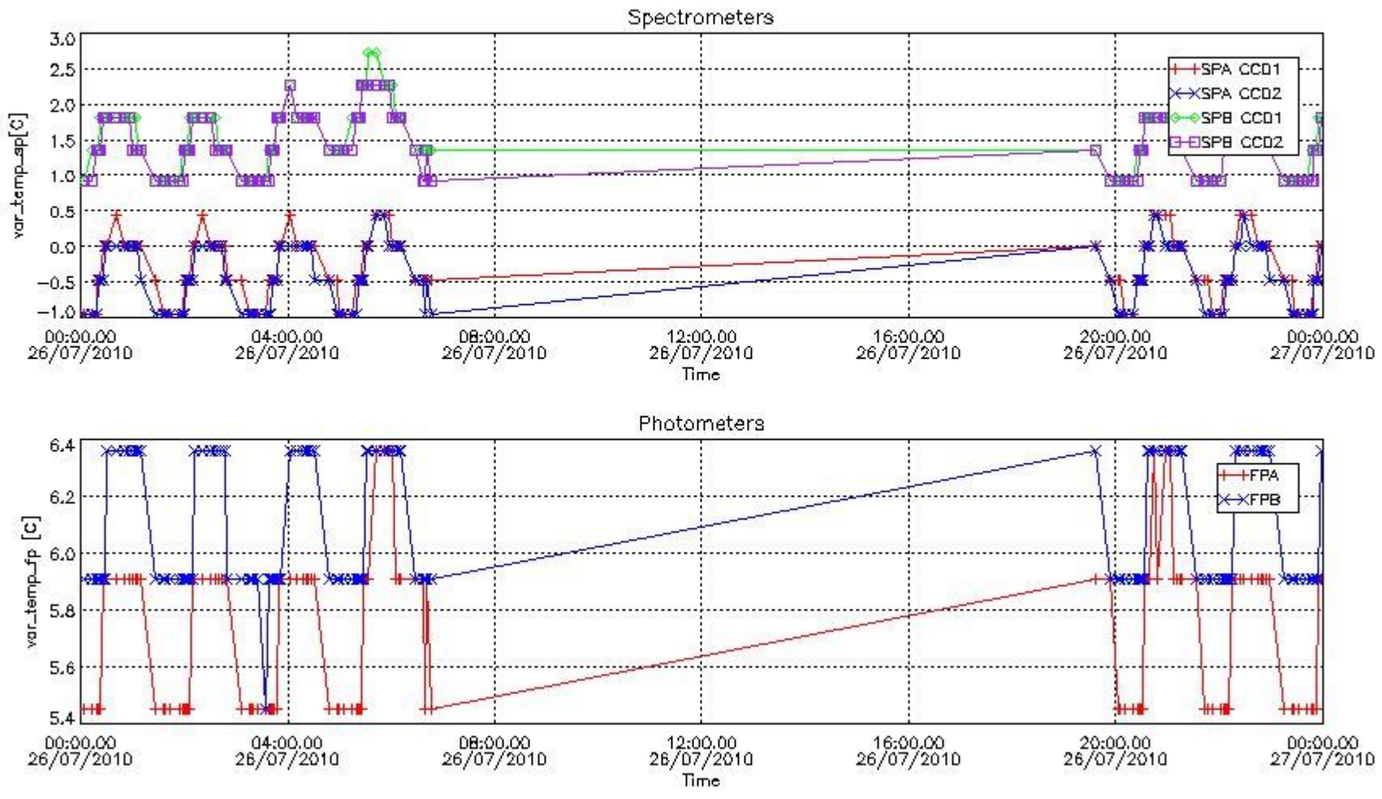
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100726_000325_000000392091_00288_43929_9574.N1	26-JUL-2010 00:03:25	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	43929	No
2	GOM_TRA_1PNPDE20100726_001319_000000422091_00288_43929_9575.N1	26-JUL-2010 00:13:19	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	43929	No
3	GOM_TRA_1PNPDE20100726_001800_000000422091_00288_43929_9576.N1	26-JUL-2010 00:18:00	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	43929	No
4	GOM_TRA_1PNPDE20100726_001932_000000482091_00288_43929_9577.N1	26-JUL-2010 00:19:32	Bright	48.000	35	33Alp Per	1.7950	6250.0	96	43929	No
5	GOM_TRA_1PNPDE20100726_002110_000000442091_00288_43929_9578.N1	26-JUL-2010 00:21:10	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	43929	No
6	GOM_TRA_1PNPDE20100726_002310_000000432091_00288_43929_9579.N1	26-JUL-2010 00:23:10	Bright	42.500	149	45Eps Per	2.8880	30000.	85	43929	No
7	GOM_TRA_1PNPDE20100726_002601_000000512091_00288_43929_9580.N1	26-JUL-2010 00:26:01	Twi_and_stray	50.500	150	44Zet Per	2.8900	28000.	101	43929	No
8	GOM_TRA_1PNPDE20100726_002854_000000532091_00288_43929_9581.N1	26-JUL-2010 00:28:54	Dark	52.500	146	25Eta Tau	2.8730	15200.	105	43929	No
9	GOM_TRA_1PNPDE20100726_003030_000000592091_00288_43929_9582.N1	26-JUL-2010 00:30:30	Dark	58.500	13	87Alp Tau	0.86700	3800.0	117	43929	No
10	GOM_TRA_1PNPDE20100726_004044_000000522091_00288_43929_9614.N1	26-JUL-2010 00:40:44	Dark	52.000	165	34Gam Eri	2.9500	3200.0	104	43929	No

11	GOM_TRA_1PNPDE20100726_005003_000000442091_00288_43929_9615.N1	26-JUL-2010 00:50:03	Dark	44.000	157	The1Eri	2.9060	9300.0	88	43929	No
12	GOM_TRA_1PNPDE20100726_005555_000000452091_00289_43930_9616.N1	26-JUL-2010 00:55:55	Dark	45.000	9	Alp Eri	0.45300	24000.	90	43930	No
13	GOM_TRA_1PNPDE20100726_010003_000000542091_00289_43930_9617.N1	26-JUL-2010 01:00:03	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	43930	No
14	GOM_TRA_1PNPDE20100726_010306_000000412091_00289_43930_9618.N1	26-JUL-2010 01:03:06	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	43930	No
15	GOM_TRA_1PNPDE20100726_010618_000000452091_00289_43930_9619.N1	26-JUL-2010 01:06:18	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	43930	No
16	GOM_TRA_1PNPDE20100726_010930_000000492091_00289_43930_9620.N1	26-JUL-2010 01:09:30	Straylight	48.500	172	Gam Gru	3.0030	13100.	97	43930	No
17	GOM_TRA_1PNPDE20100726_012618_000000402091_00289_43930_9621.N1	26-JUL-2010 01:26:18	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	43930	No
18	GOM_TRA_1PNPDE20100726_013543_000000302091_00289_43930_9622.N1	26-JUL-2010 01:35:43	Twi_and_stray	30.000	92	53Eps Cyg	2.5000	4500.0	60	43930	No
19	GOM_TRA_1PNPDE20100726_013706_000000372091_00289_43930_9623.N1	26-JUL-2010 01:37:06	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	43930	No
20	GOM_TRA_1PNPDE20100726_013843_000000462091_00289_43930_9624.N1	26-JUL-2010 01:38:43	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	43930	No
21	GOM_TRA_1PNPDE20100726_014400_000000382091_00289_43930_9625.N1	26-JUL-2010 01:44:00	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	43930	No
22	GOM_TRA_1PNPDE20100726_015354_000000402091_00289_43930_9626.N1	26-JUL-2010 01:53:54	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	43930	No
23	GOM_TRA_1PNPDE20100726_015836_000000452091_00289_43930_9627.N1	26-JUL-2010 01:58:36	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	43930	No
24	GOM_TRA_1PNPDE20100726_020008_000000462091_00289_43930_9628.N1	26-JUL-2010 02:00:08	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	43930	No
25	GOM_TRA_1PNPDE20100726_020146_000000412091_00289_43930_9629.N1	26-JUL-2010 02:01:46	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	43930	No
26	GOM_TRA_1PNPDE20100726_020345_000000412091_00289_43930_9630.N1	26-JUL-2010 02:03:45	Bright	41.000	149	45Eps Per	2.8880	30000.	82	43930	No
27	GOM_TRA_1PNPDE20100726_020637_000000532091_00289_43930_9631.N1	26-JUL-2010 02:06:37	Twi_and_stray	53.000	150	44Zet Per	2.8900	28000.	106	43930	No
28	GOM_TRA_1PNPDE20100726_020931_000000502091_00289_43930_9632.N1	26-JUL-2010 02:09:31	Dark	49.500	146	25Eta Tau	2.8730	15200.	99	43930	No
29	GOM_TRA_1PNPDE20100726_021106_000000502091_00289_43930_9633.N1	26-JUL-2010 02:11:06	Dark	49.500	13	87Alp Tau	0.86700	3800.0	99	43930	No
30	GOM_TRA_1PNPDE20100726_022120_000000522091_00289_43930_9632.N1	26-JUL-2010 02:21:20	Dark	51.500	165	34Gam Eri	2.9500	3200.0	103	43930	No
31	GOM_TRA_1PNPDE20100726_023040_000000442091_00289_43930_9633.N1	26-JUL-2010 02:30:40	Dark	43.500	157	The1Eri	2.9060	9300.0	87	43930	No
32	GOM_TRA_1PNPDE20100726_023631_000000522091_00290_43931_9634.N1	26-JUL-2010 02:36:31	Dark	51.500	9	Alp Eri	0.45300	24000.	103	43931	No
33	GOM_TRA_1PNPDE20100726_024040_000000662091_00290_43931_9635.N1	26-JUL-2010 02:40:40	Straylight	66.000	84	Alp Phe	2.3970	4500.0	132	43931	No
34	GOM_TRA_1PNPDE20100726_024342_000000512091_00290_43931_9636.N1	26-JUL-2010 02:43:42	Straylight	51.000	148	Alp Tuc	2.8780	4100.0	102	43931	No
35	GOM_TRA_1PNPDE20100726_024654_000000462091_00290_43931_9637.N1	26-JUL-2010 02:46:54	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	43931	No
36	GOM_TRA_1PNPDE20100726_025006_000000472091_00290_43931_9638.N1	26-JUL-2010 02:50:06	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	43931	No
37	GOM_TRA_1PNPDE20100726_030654_000000432091_00290_43931_9639.N1	26-JUL-2010 03:06:54	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	43931	No
38	GOM_TRA_1PNPDE20100726_031619_000000302091_00290_43931_9640.N1	26-JUL-2010 03:16:19	Twi_and_stray	30.000	92	53Eps Cyg	2.5000	4500.0	60	43931	No
39	GOM_TRA_1PNPDE20100726_031742_000000382091_00290_43931_9641.N1	26-JUL-2010 03:17:42	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	43931	No
40	GOM_TRA_1PNPDE20100726_031918_000000462091_00290_43931_9642.N1	26-JUL-2010 03:19:18	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	43931	No
41	GOM_TRA_1PNPDE20100726_032436_000000382091_00290_43931_9643.N1	26-JUL-2010 03:24:36	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	43931	No
42	GOM_TRA_1PNPDE20100726_033430_000000402091_00290_43931_9701.N1	26-JUL-2010 03:34:30	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	43931	No
43	GOM_TRA_1PNPDE20100726_033912_000000472091_00290_43931_9702.N1	26-JUL-2010 03:39:12	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	43931	No
44	GOM_TRA_1PNPDE20100726_034043_000000482091_00290_43931_9703.N1	26-JUL-2010 03:40:43	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	43931	No
45	GOM_TRA_1PNPDE20100726_034222_000000412091_00290_43931_9704.N1	26-JUL-2010 03:42:22	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	43931	No
46	GOM_TRA_1PNPDE20100726_034421_000000432091_00290_43931_9705.N1	26-JUL-2010 03:44:21	Bright	43.000	149	45Eps Per	2.8880	30000.	86	43931	No
47	GOM_TRA_1PNPDE20100726_034713_000000492091_00290_43931_9706.N1	26-JUL-2010 03:47:13	Twi_and_stray	49.000	150	44Zet Per	2.8900	28000.	98	43931	No
48	GOM_TRA_1PNPDE20100726_035007_000000512091_00290_43931_9707.N1	26-JUL-2010 03:50:07	Dark	51.000	146	25Eta Tau	2.8730	15200.	102	43931	No
49	GOM_TRA_1PNPDE20100726_035143_000000522091_00290_43931_9708.N1	26-JUL-2010 03:51:43	Dark	51.500	13	87Alp Tau	0.86700	3800.0	103	43931	No
50	GOM_TRA_1PNPDE20100726_040157_000000512091_00290_43931_9709.N1	26-JUL-2010 04:01:57	Dark	51.000	165	34Gam Eri	2.9500	3200.0	102	43931	No
51	GOM_TRA_1PNPDE20100726_041117_000000462091_00290_43931_9710.N1	26-JUL-2010 04:11:17	Dark	46.000	157	The1Eri	2.9060	9300.0	92	43931	No
52	GOM_TRA_1PNPDE20100726_041708_000000542091_00291_43932_9711.N1	26-JUL-2010 04:17:08	Dark	53.500	9	Alp Eri	0.45300	24000.	107	43932	No
53	GOM_TRA_1PNPDE20100726_042117_000000562091_00291_43932_9712.N1	26-JUL-2010 04:21:17	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	43932	No
54	GOM_TRA_1PNPDE20100726_042419_000000432091_00291_43932_9713.N1	26-JUL-2010 04:24:19	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	43932	No
55	GOM_TRA_1PNPDE20100726_042731_000000452091_00291_43932_9714.N1	26-JUL-2010 04:27:31	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	43932	No
56	GOM_TRA_1PNPDE20100726_043043_000000472091_00291_43932_9715.N1	26-JUL-2010 04:30:43	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	43932	No
57	GOM_TRA_1PNPDE20100726_044729_000000402091_00291_43932_9716.N1	26-JUL-2010 04:47:29	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	43932	No
58	GOM_TRA_1PNPDE20100726_045654_000000362091_00291_43932_9717.N1	26-JUL-2010 04:56:54	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	43932	No
59	GOM_TRA_1PNPDE20100726_045818_000000412091_00291_43932_9718.N1	26-JUL-2010 04:58:18	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	43932	No
60	GOM_TRA_1PNPDE20100726_045953_000000462091_00291_43932_9719.N1	26-JUL-2010 04:59:53	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	43932	No
61	GOM_TRA_1PNPDE20100726_050511_000000422091_00291_43932_9720.N1	26-JUL-2010 05:05:11	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	43932	No
62	GOM_TRA_1PNPDE20100726_051505_000000382091_00291_43932_9724.N1	26-JUL-2010 05:15:05	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	43932	No
63	GOM_TRA_1PNPDE20100726_051948_000000462091_00291_43932_9725.N1	26-JUL-2010 05:19:48	Bright	46.000	160	23Gam Per	2.9300	4700.0	92	43932	No
64	GOM_TRA_1PNPDE20100726_052119_000000472091_00291_43932_9726.N1	26-JUL-2010 05:21:19	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	43932	No
65	GOM_TRA_1PNPDE20100726_052258_000000392091_00291_43932_9727.N1	26-JUL-2010 05:22:58	Bright	38.500	6	13Alp Aur	0.080000	3400.0	77	43932	No
66	GOM_TRA_1PNPDE20100726_052457_000000422091_00291_43932_9728.N1	26-JUL-2010 05:24:57	Bright	41.500	149	45Eps Per	2.8880	30000.	83	43932	No
67	GOM_TRA_1PNPDE20100726_052750_000000502091_00291_43932_9729.N1	26-JUL-2010 05:27:50	Twi_and_stray	49.500	150	44Zet Per	2.8900	28000.	99	43932	No
68	GOM_TRA_1PNPDE20100726_053044_000000492091_00291_43932_9730.N1	26-JUL-2010 05:30:44	Dark	48.500	146	25Eta Tau	2.8730	15200.	97	43932	No
69	GOM_TRA_1PNPDE20100726_053219_000000562091_00291_43932_9731.N1	26-JUL-2010 05:32:19	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	43932	No

70	GOM_TRA_1PNPDE20100726_054234_000000502091_00291_43932_9732.N1	26-JUL-2010 05:42:34	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	43932	No
71	GOM_TRA_1PNPDE20100726_055153_000000452091_00291_43932_9733.N1	26-JUL-2010 05:51:53	Dark	44.500	157	The1Eri	2.9060	9300.0	89	43932	No
72	GOM_TRA_1PNPDE20100726_055745_000000422091_00292_43933_9734.N1	26-JUL-2010 05:57:45	Dark	42.000	9	Alp Eri	0.45300	24000.	84	43933	No
73	GOM_TRA_1PNPDE20100726_060154_000000572091_00292_43933_9735.N1	26-JUL-2010 06:01:54	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	43933	No
74	GOM_TRA_1PNPDE20100726_060455_000000422091_00292_43933_9736.N1	26-JUL-2010 06:04:55	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	43933	No
75	GOM_TRA_1PNPDE20100726_060808_000000452091_00292_43933_9737.N1	26-JUL-2010 06:08:08	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	43933	No
76	GOM_TRA_1PNPDE20100726_061119_000000482091_00292_43933_9738.N1	26-JUL-2010 06:11:19	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	43933	No
77	GOM_TRA_1PNPDE20100726_062805_000000402091_00292_43933_9739.N1	26-JUL-2010 06:28:05	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	43933	No
78	GOM_TRA_1PNPDE20100726_063729_000000362091_00292_43933_9740.N1	26-JUL-2010 06:37:29	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	43933	No
79	GOM_TRA_1PNPDE20100726_063854_000000382091_00292_43933_9741.N1	26-JUL-2010 06:38:54	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	43933	No
80	GOM_TRA_1PNPDE20100726_064029_000000462091_00292_43933_9742.N1	26-JUL-2010 06:40:29	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	43933	No
81	GOM_TRA_1PNPDE20100726_064547_000000422091_00292_43933_9743.N1	26-JUL-2010 06:45:47	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	43933	No
82	GOM_TRA_1PNPDE20100726_193611_000000472091_00300_43941_9850.N1	26-JUL-2010 19:36:11	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	43941	No
83	GOM_TRA_1PNPDE20100726_195252_000000402091_00300_43941_9851.N1	26-JUL-2010 19:52:52	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	43941	No
84	GOM_TRA_1PNPDE20100726_200211_000000492091_00300_43941_9852.N1	26-JUL-2010 20:02:11	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	43941	No
85	GOM_TRA_1PNPDE20100726_200339_000000402091_00300_43941_9853.N1	26-JUL-2010 20:03:39	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	43941	No
86	GOM_TRA_1PNPDE20100726_200512_000000442091_00300_43941_9854.N1	26-JUL-2010 20:05:12	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	43941	No
87	GOM_TRA_1PNPDE20100726_201030_000000422091_00300_43941_9855.N1	26-JUL-2010 20:10:30	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	43941	No
88	GOM_TRA_1PNPDE20100726_202023_000000312091_00300_43941_9856.N1	26-JUL-2010 20:20:23	Twi_and_stray	31.000	110	37Del Cas	2.6780	8900.0	62	43941	No
89	GOM_TRA_1PNPDE20100726_202508_000000472091_00300_43941_9857.N1	26-JUL-2010 20:25:08	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	43941	No
90	GOM_TRA_1PNPDE20100726_202641_000000482091_00300_43941_9858.N1	26-JUL-2010 20:26:41	Bright	48.000	35	33Alp Per	1.7950	6250.0	96	43941	No
91	GOM_TRA_1PNPDE20100726_202822_000000432091_00300_43941_9859.N1	26-JUL-2010 20:28:22	Bright	43.000	6	13Alp Aur	0.080000	3400.0	86	43941	No
92	GOM_TRA_1PNPDE20100726_203021_000000442091_00300_43941_9860.N1	26-JUL-2010 20:30:21	Bright	43.500	149	45Eps Per	2.8880	30000.	87	43941	No
93	GOM_TRA_1PNPDE20100726_203314_000000512091_00300_43941_9861.N1	26-JUL-2010 20:33:14	Twi_and_stray	51.000	150	44Zet Per	2.8900	28000.	102	43941	No
94	GOM_TRA_1PNPDE20100726_203610_000000532091_00300_43941_9862.N1	26-JUL-2010 20:36:10	Dark	52.500	146	25Eta Tau	2.8730	15200.	105	43941	No
95	GOM_TRA_1PNPDE20100726_203745_000000592091_00300_43941_9863.N1	26-JUL-2010 20:37:45	Dark	59.000	13	87Alp Tau	0.86700	3800.0	118	43941	No
96	GOM_TRA_1PNPDE20100726_204322_000000382091_00300_43941_9875.N1	26-JUL-2010 20:43:22	Dark	38.000	128	67Bet Eri	2.7840	9700.0	76	43941	Yes
97	GOM_TRA_1PNPDE20100726_204804_000000532091_00300_43941_9876.N1	26-JUL-2010 20:48:04	Dark	53.000	165	34Gam Eri	2.9500	3200.0	106	43941	No
98	GOM_TRA_1PNPDE20100726_205725_000000452091_00300_43941_9877.N1	26-JUL-2010 20:57:25	Dark	44.500	157	The1Eri	2.9060	9300.0	89	43941	No
99	GOM_TRA_1PNPDE20100726_210314_000000492091_00301_43942_9878.N1	26-JUL-2010 21:03:14	Dark	49.000	9	Alp Eri	0.45300	24000.	98	43942	No
100	GOM_TRA_1PNPDE20100726_210728_000000592091_00301_43942_9879.N1	26-JUL-2010 21:07:28	Straylight	58.500	84	Alp Phe	2.3970	4500.0	117	43942	No
101	GOM_TRA_1PNPDE20100726_211023_000000392091_00301_43942_9880.N1	26-JUL-2010 21:10:23	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	43942	No
102	GOM_TRA_1PNPDE20100726_211336_000000452091_00301_43942_9881.N1	26-JUL-2010 21:13:36	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	43942	No
103	GOM_TRA_1PNPDE20100726_211648_000000492091_00301_43942_9882.N1	26-JUL-2010 21:16:48	Straylight	49.000	172	Gam Gru	3.0030	13100.	98	43942	No
104	GOM_TRA_1PNPDE20100726_213327_000000432091_00301_43942_9883.N1	26-JUL-2010 21:33:27	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	43942	No
105	GOM_TRA_1PNPDE20100726_214246_000000492091_00301_43942_9884.N1	26-JUL-2010 21:42:46	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	43942	No
106	GOM_TRA_1PNPDE20100726_214547_000000492091_00301_43942_9885.N1	26-JUL-2010 21:45:47	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	43942	No
107	GOM_TRA_1PNPDE20100726_215106_000000422091_00301_43942_9886.N1	26-JUL-2010 21:51:06	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	43942	No
108	GOM_TRA_1PNPDE20100726_220059_000000292091_00301_43942_9887.N1	26-JUL-2010 22:00:59	Twi_and_stray	29.000	110	37Del Cas	2.6780	8900.0	58	43942	No
109	GOM_TRA_1PNPDE20100726_220544_000000512091_00301_43942_9888.N1	26-JUL-2010 22:05:44	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	43942	No
110	GOM_TRA_1PNPDE20100726_220716_000000472091_00301_43942_9889.N1	26-JUL-2010 22:07:16	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	43942	No
111	GOM_TRA_1PNPDE20100726_220858_000000482091_00301_43942_9890.N1	26-JUL-2010 22:08:58	Bright	47.500	6	13Alp Aur	0.080000	3400.0	95	43942	No
112	GOM_TRA_1PNPDE20100726_221057_000000432091_00301_43942_9891.N1	26-JUL-2010 22:10:57	Bright	43.000	149	45Eps Per	2.8880	30000.	86	43942	No
113	GOM_TRA_1PNPDE20100726_221350_000000512091_00301_43942_9892.N1	26-JUL-2010 22:13:50	Twi_and_stray	50.500	150	44Zet Per	2.8900	28000.	101	43942	No
114	GOM_TRA_1PNPDE20100726_221822_000000572091_00301_43942_9893.N1	26-JUL-2010 22:18:22	Dark	56.500	13	87Alp Tau	0.86700	3800.0	113	43942	No
115	GOM_TRA_1PNPDE20100726_222359_000000392091_00301_43942_9894.N1	26-JUL-2010 22:23:59	Dark	39.000	128	67Bet Eri	2.7840	9700.0	78	43942	No
116	GOM_TRA_1PNPDE20100726_222841_000000542091_00301_43942_9899.N1	26-JUL-2010 22:28:41	Dark	53.500	165	34Gam Eri	2.9500	3200.0	107	43942	No
117	GOM_TRA_1PNPDE20100726_223801_000000452091_00301_43942_9900.N1	26-JUL-2010 22:38:01	Dark	45.000	157	The1Eri	2.9060	9300.0	90	43942	No
118	GOM_TRA_1PNPDE20100726_224351_000000532091_00302_43943_9901.N1	26-JUL-2010 22:43:51	Dark	53.000	9	Alp Eri	0.45300	24000.	106	43943	No
119	GOM_TRA_1PNPDE20100726_224805_000000552091_00302_43943_9902.N1	26-JUL-2010 22:48:05	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	43943	No
120	GOM_TRA_1PNPDE20100726_225059_000000442091_00302_43943_9903.N1	26-JUL-2010 22:50:59	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	43943	No
121	GOM_TRA_1PNPDE20100726_225413_000000492091_00302_43943_9904.N1	26-JUL-2010 22:54:13	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43943	No
122	GOM_TRA_1PNPDE20100726_225724_000000482091_00302_43943_9905.N1	26-JUL-2010 22:57:24	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	43943	No
123	GOM_TRA_1PNPDE20100726_231403_000000402091_00302_43943_9906.N1	26-JUL-2010 23:14:03	Bright	39.500	11	53Alp Aql	0.76500	8000.0	79	43943	No
124	GOM_TRA_1PNPDE20100726_232321_000000482091_00302_43943_9907.N1	26-JUL-2010 23:23:21	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	43943	No
125	GOM_TRA_1PNPDE20100726_232622_000000442091_00302_43943_9908.N1	26-JUL-2010 23:26:22	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	43943	No
126	GOM_TRA_1PNPDE20100726_233141_000000612091_00302_43943_9909.N1	26-JUL-2010 23:31:41	Bright	61.000	89	5Alp Cep	2.4510	8000.0	122	43943	No
127	GOM_TRA_1PNPDE20100726_234134_000000292091_00302_43943_9910.N1	26-JUL-2010 23:41:34	Twi_and_stray	29.000	110	37Del Cas	2.6780	8900.0	58	43943	No
128	GOM_TRA_1PNPDE20100726_234619_000000472091_00302_43943_9911.N1	26-JUL-2010 23:46:19	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	43943	No

129	GOM_TRA_1PNPDE20100726_234752_000000622091_00302_43943_9912.N1	26-JUL-2010 23:47:52	Bright	61.500	35	33Alp Per	1.7950	6250.0	123	43943	No
130	GOM_TRA_1PNPDE20100726_234934_000000412091_00302_43943_9913.N1	26-JUL-2010 23:49:34	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	43943	No
131	GOM_TRA_1PNPDE20100726_235133_000000442091_00302_43943_9914.N1	26-JUL-2010 23:51:33	Bright	43.500	149	45Eps Per	2.8880	30000.	87	43943	No
132	GOM_TRA_1PNPDE20100726_235426_000000502091_00302_43943_9915.N1	26-JUL-2010 23:54:26	Twi_and_stray	49.500	150	44Zet Per	2.8900	28000.	99	43943	No
133	GOM_TRA_1PNPDE20100726_235858_000000592091_00302_43943_9916.N1	26-JUL-2010 23:58:58	Dark	59.000	13	87Alp Tau	0.86700	3800.0	118	43943	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_1PNPDE20100726_193611_000000472091_00300_43941_9850.N1	DC map used
GOM_TRA_1PNPDE20100726_195252_000000402091_00300_43941_9851.N1	DC map used
GOM_TRA_1PNPDE20100726_200211_000000492091_00300_43941_9852.N1	DC map used
GOM_TRA_1PNPDE20100726_200339_000000402091_00300_43941_9853.N1	DC map used
GOM_TRA_1PNPDE20100726_200512_000000442091_00300_43941_9854.N1	DC map used

GOM_TRA_1PNPDE20100726_201030_000000422091_00300_43941_9855.N1	DC map used
GOM_TRA_1PNPDE20100726_202023_000000312091_00300_43941_9856.N1	DC map used
GOM_TRA_1PNPDE20100726_202508_000000472091_00300_43941_9857.N1	DC map used
GOM_TRA_1PNPDE20100726_202641_000000482091_00300_43941_9858.N1	DC map used
GOM_TRA_1PNPDE20100726_202822_000000432091_00300_43941_9859.N1	DC map used
GOM_TRA_1PNPDE20100726_203021_000000442091_00300_43941_9860.N1	DC map used
GOM_TRA_1PNPDE20100726_203314_000000512091_00300_43941_9861.N1	DC map used
GOM_TRA_1PNPDE20100726_203610_000000532091_00300_43941_9862.N1	DC map used
GOM_TRA_1PNPDE20100726_203745_000000592091_00300_43941_9863.N1	DC map used

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

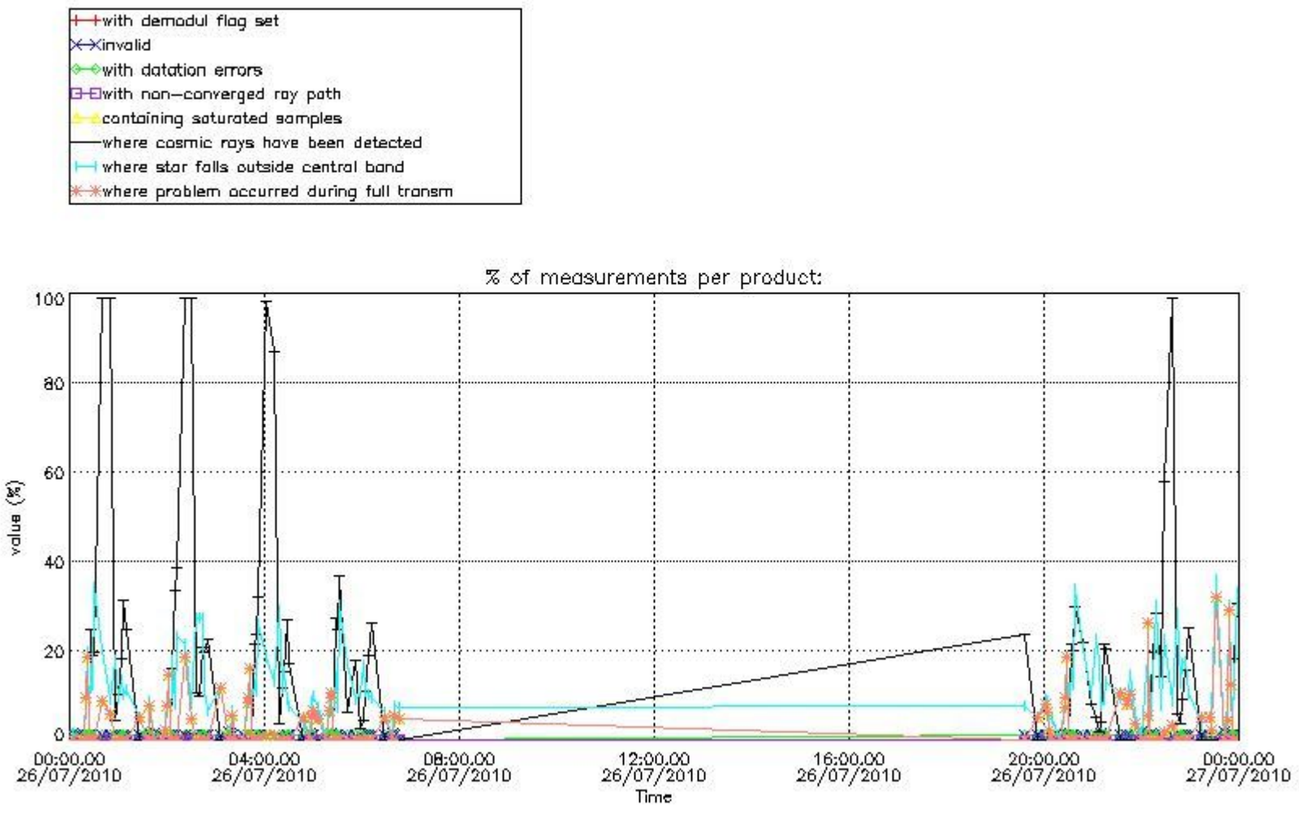
5. Demodulation flag and quality information monitoring

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:

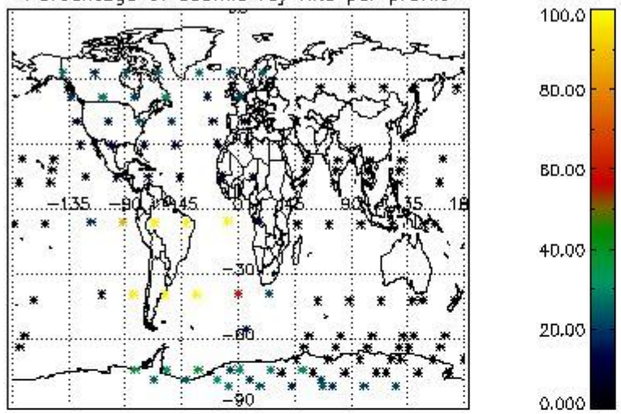
At least one measurement with demodulation flag set:	40.1515 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

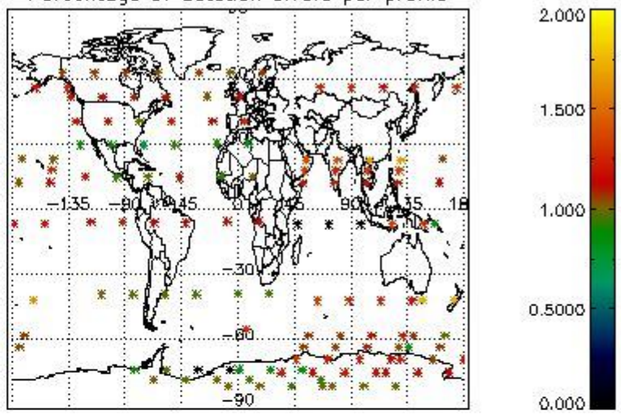


5.3 Plot quality information per product (world map)

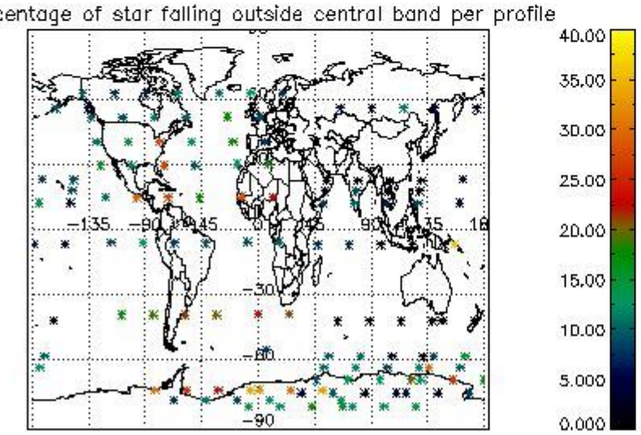
Percentage of cosmic ray hits per profile



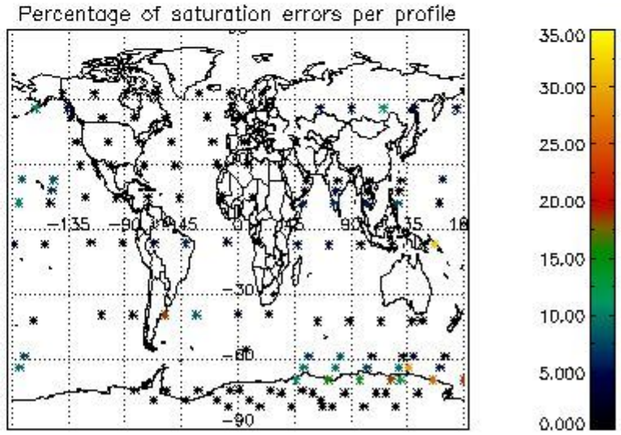
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



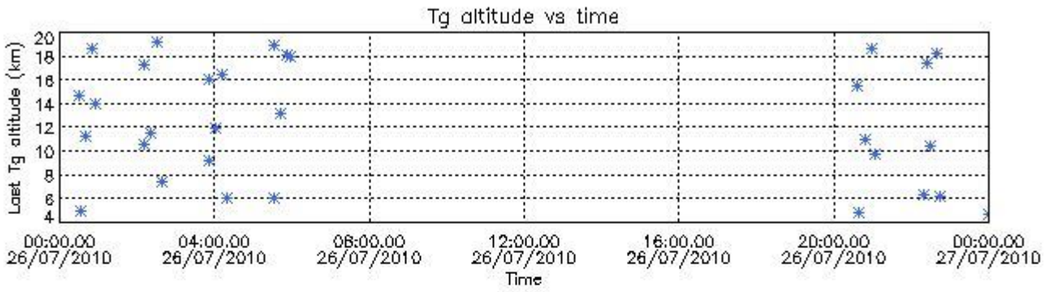
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

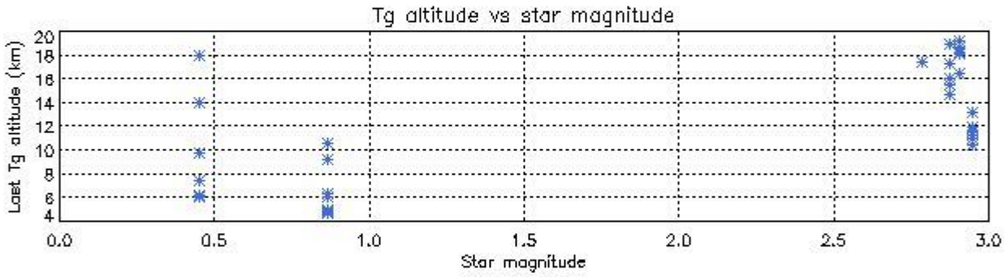
6.1 Statistics on tangent altitude lost:

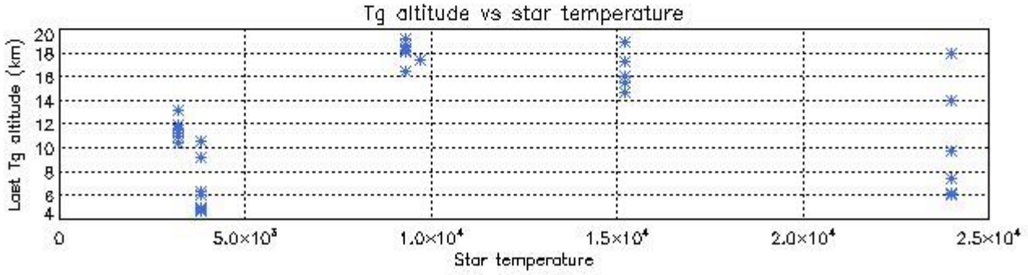
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.458	21.545	NaN
St. deviation:	4.9649	7.8049	NaN
Maximum:	19.135	46.488	NaN
Minimum:	4.6928	3.1937	NaN
Number of data:	31.000	64.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

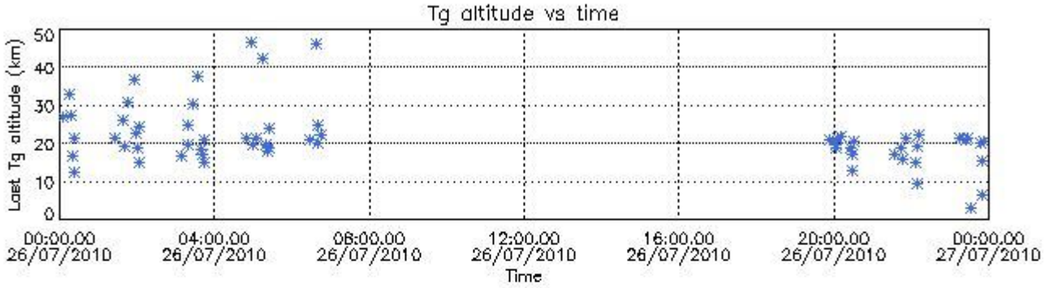


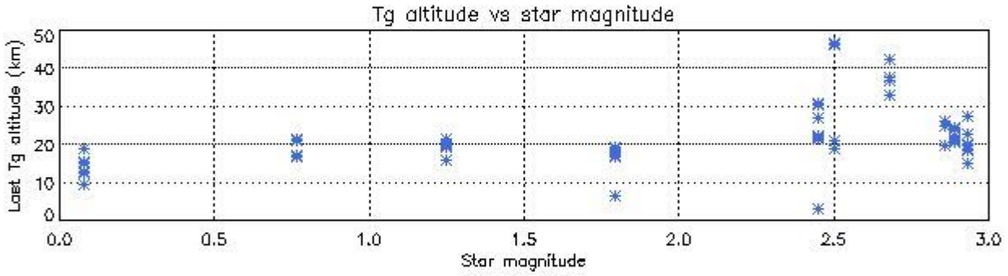


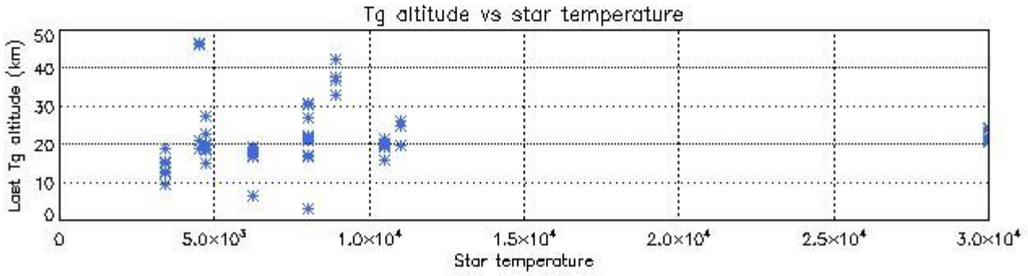


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





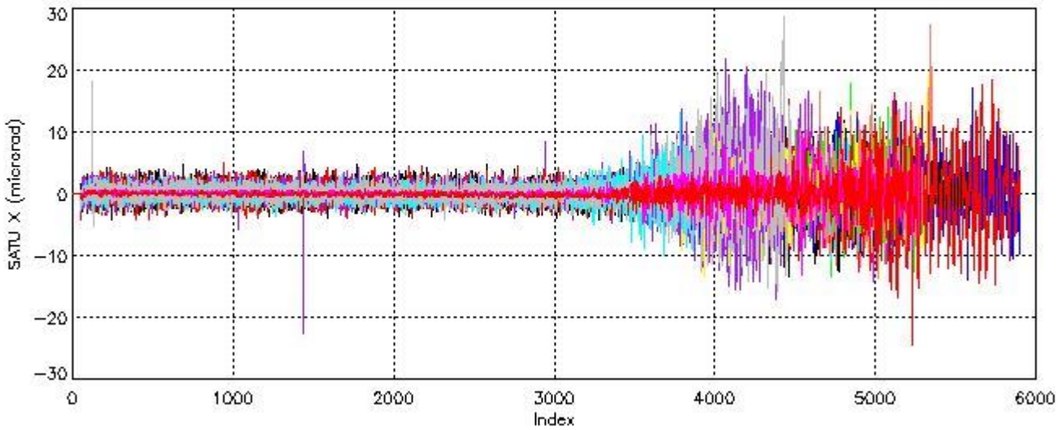


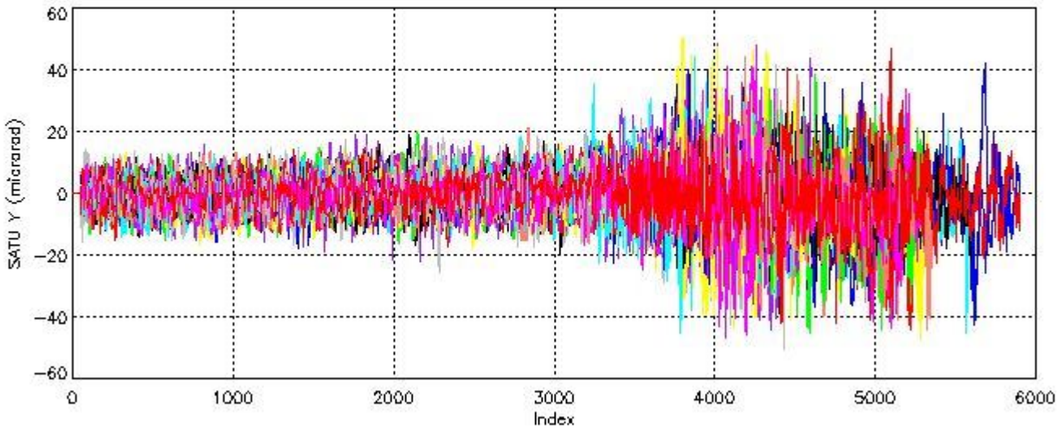
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main 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:	0.16597	-0.88706	0.21877	-0.66351
St. deviation:	0.60383	4.4520	0.77293	4.3228
Maximum:	18.200	15.900	5.9000	16.900
Minimum:	-5.9000	-17.000	-5.9000	-19.600

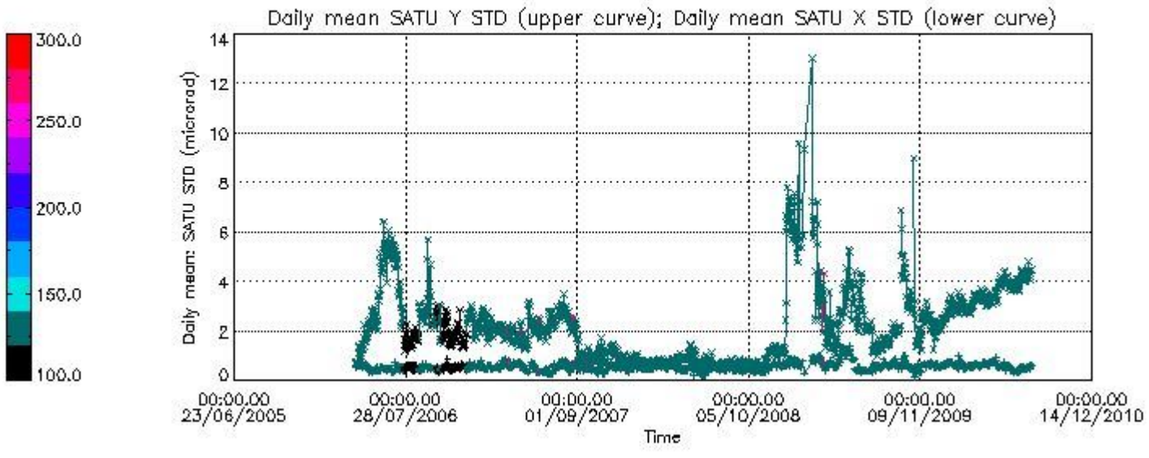
Number of data:	31850.	31850.	66300.	66300.

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.

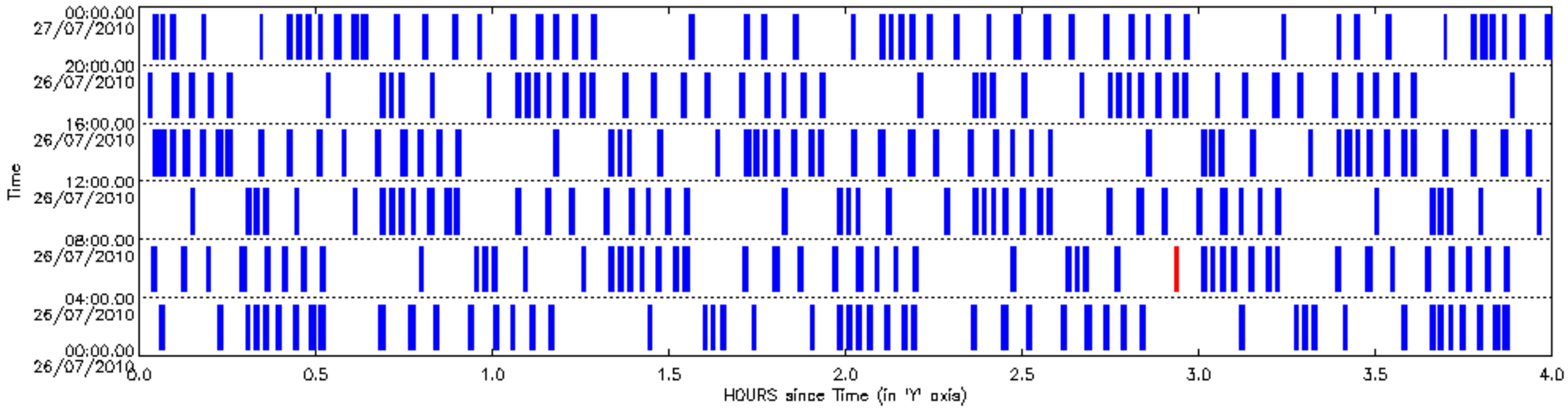
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

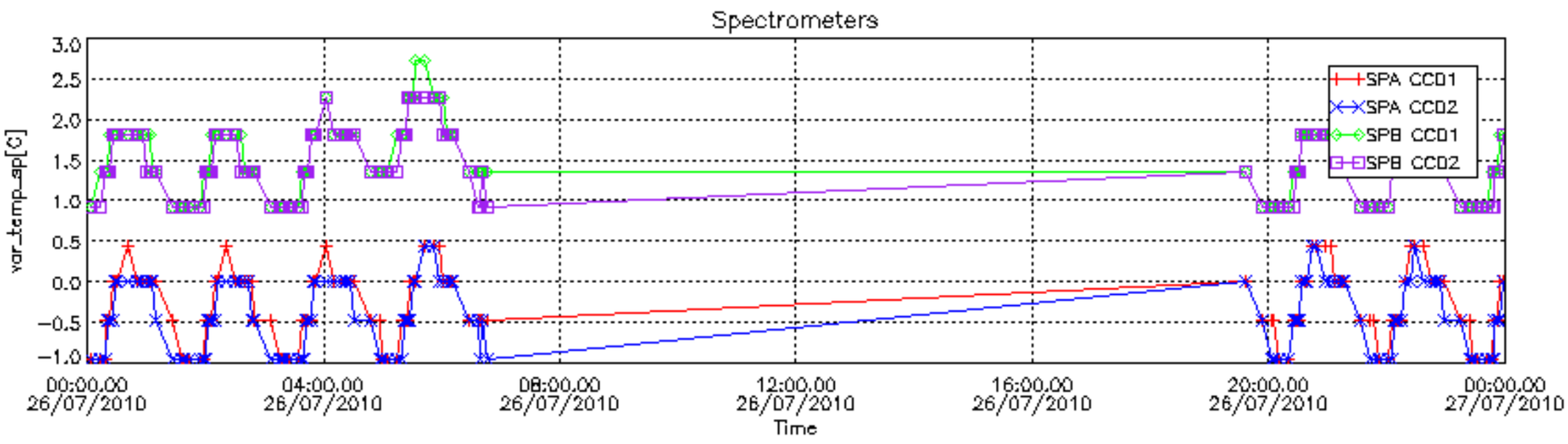


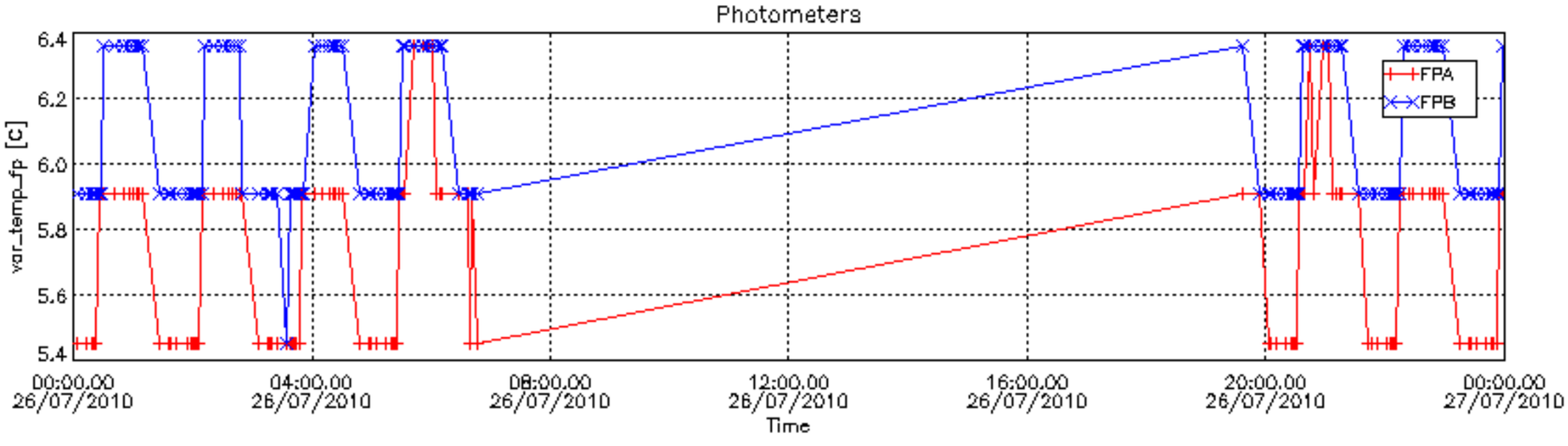
8. Auxiliary Data Files used for the production reported in section 2.4

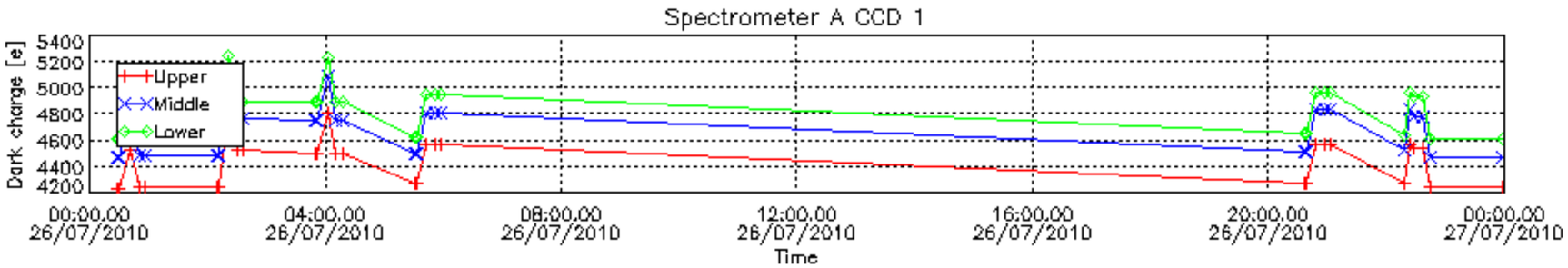
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

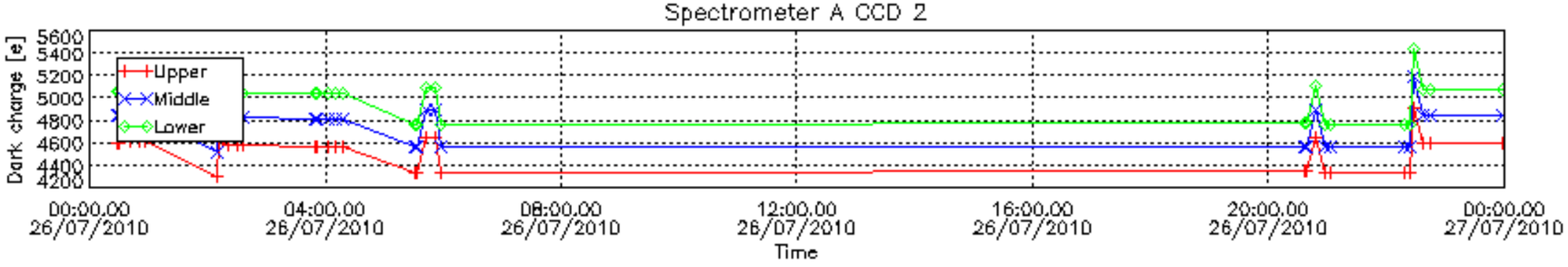
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JUL-2010 00:03:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100720_095840_20100718_000000_20500101_000000	1	26-JUL-2010 00:03:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	26-JUL-2010 00:03:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JUL-2010 00:03:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-JUL-2010 00:03:25
ECMWF_FILE	MISSING	1	26-JUL-2010 00:03:25
ECMWF_FILE	AUX_ECF_AXNECM20100725_172114_20100726_030000_20100726_150000	42	26-JUL-2010 03:34:30
ECMWF_FILE	AUX_ECA_AXNECM20100726_052114_20100725_210000_20100726_090000	62	26-JUL-2010 05:15:05
ECMWF_FILE	AUX_ECA_AXNECM20100726_172114_20100726_090000_20100726_210000	82	26-JUL-2010 19:36:11
ECMWF_FILE	AUX_ECF_AXNECM20100726_052115_20100726_150000_20100727_030000	96	26-JUL-2010 20:43:22
ECMWF_FILE	AUX_ECF_AXNECM20100726_054112_20100726_210000_20100727_090000	116	26-JUL-2010 22:28:41
OPTIONAL_ECMWF_FILE	MISSING	1	26-JUL-2010 00:03:25
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100725_225651_000057382091_00287_43928_0822.N1	1	26-JUL-2010 00:03:25
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_003748_000054192091_00288_43929_0823.N1	10	26-JUL-2010 00:40:44
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_021326_000041442091_00289_43930_0824.N1	30	26-JUL-2010 02:21:20
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_032749_000060572091_00290_43931_0825.N1	42	26-JUL-2010 03:34:30
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_051405_000054192091_00291_43932_0826.N1	62	26-JUL-2010 05:15:05
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_192930_000041442091_00300_43941_0827.N1	82	26-JUL-2010 19:36:11
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_203835_000060572091_00300_43941_0828.N1	96	26-JUL-2010 20:43:22
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100726_222450_000057382091_00301_43942_0829.N1	116	26-JUL-2010 22:28:41

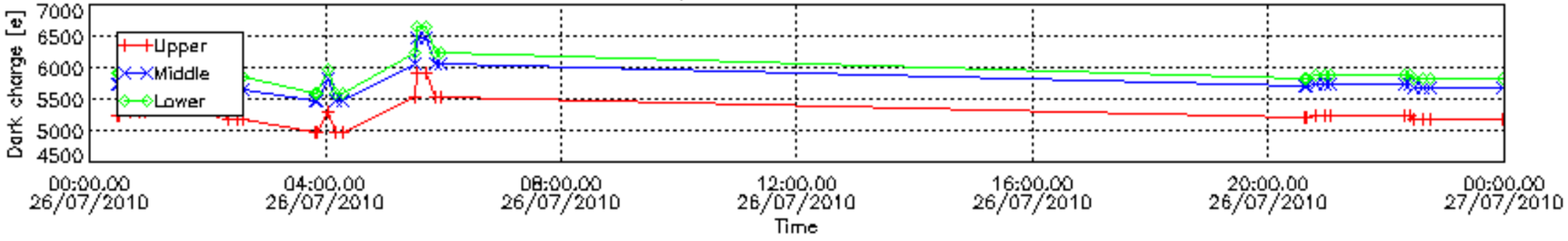

00:00.00
27/07/2010
20:00.00
26/07/2010
16:00.00
26/07/2010
12:00.00
26/07/2010
08:00.00
26/07/2010
04:00.00
26/07/2010
00:00.00
26/07/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

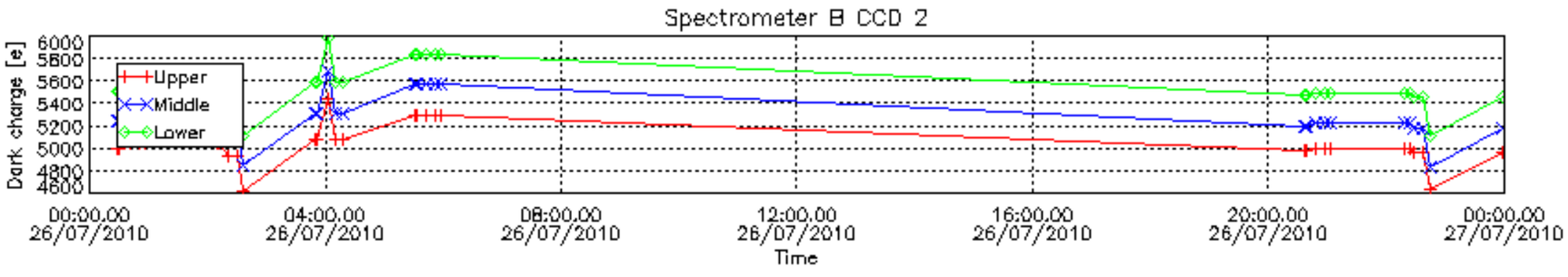

Spectrometers
var_temp_sp[C]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
26/07/2010
04:00.00
26/07/2010
08:00.00
26/07/2010
12:00.00
26/07/2010
16:00.00
26/07/2010
20:00.00
26/07/2010
00:00.00
27/07/2010
Time

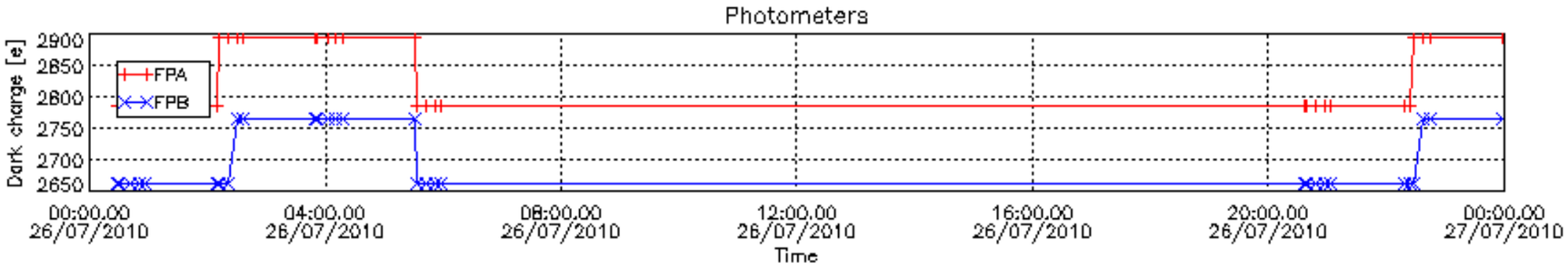

Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
FPA
FPB
00:00.00
26/07/2010
04:00.00
26/07/2010
08:00.00
26/07/2010
12:00.00
26/07/2010
16:00.00
26/07/2010
20:00.00
26/07/2010
00:00.00
27/07/2010
Time

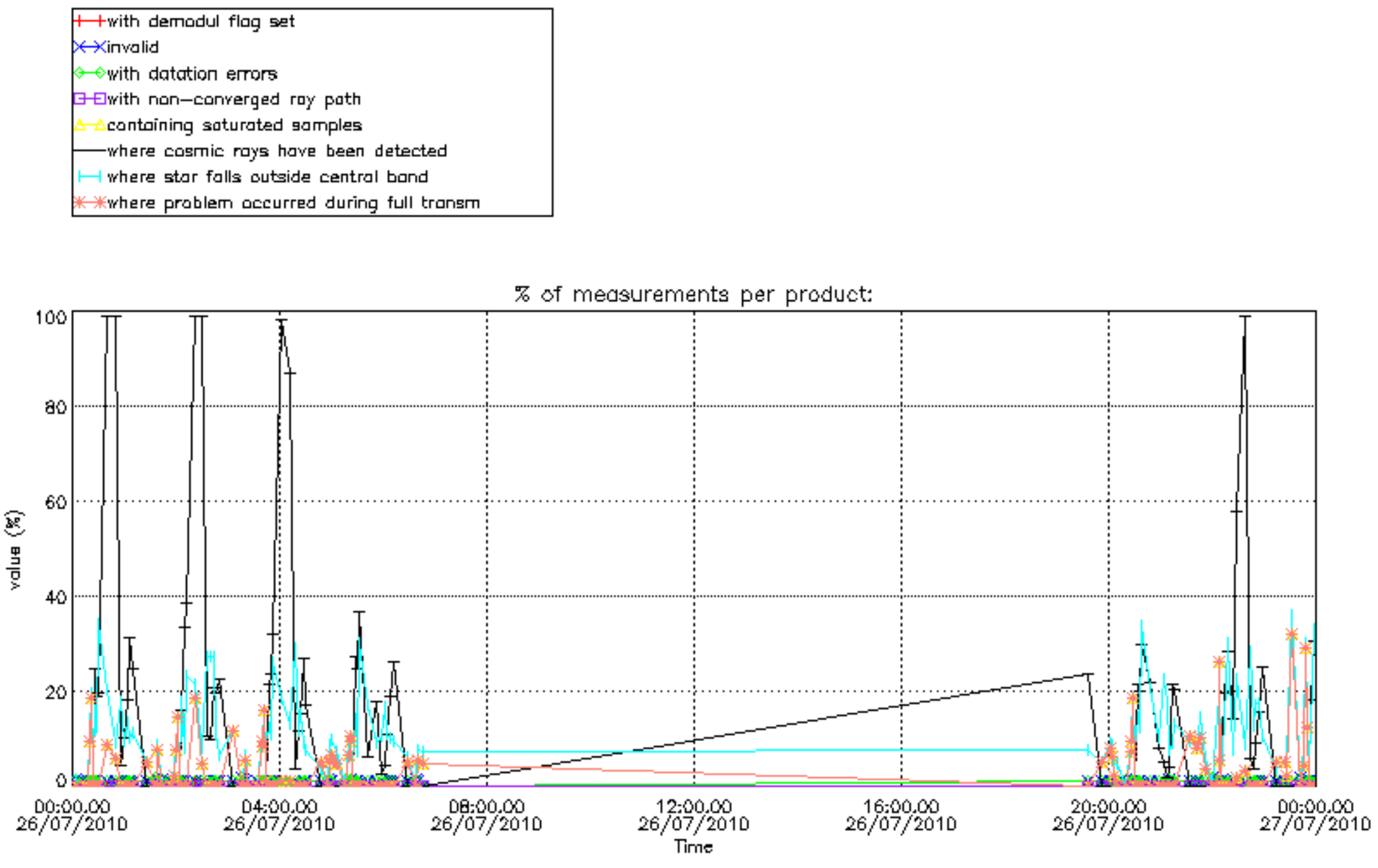

Spectrometer A CCD 1
Dark charge [e]
5400
5200
5000
4800
4600
4400
4200
Upper
Middle
Lower
00:00.00 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time


Spectrometer A CCD 2
Dark charge [e]
5600
5400
5200
5000
4800
4600
4400
4200
Upper
Middle
Lower
00:00.00 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time

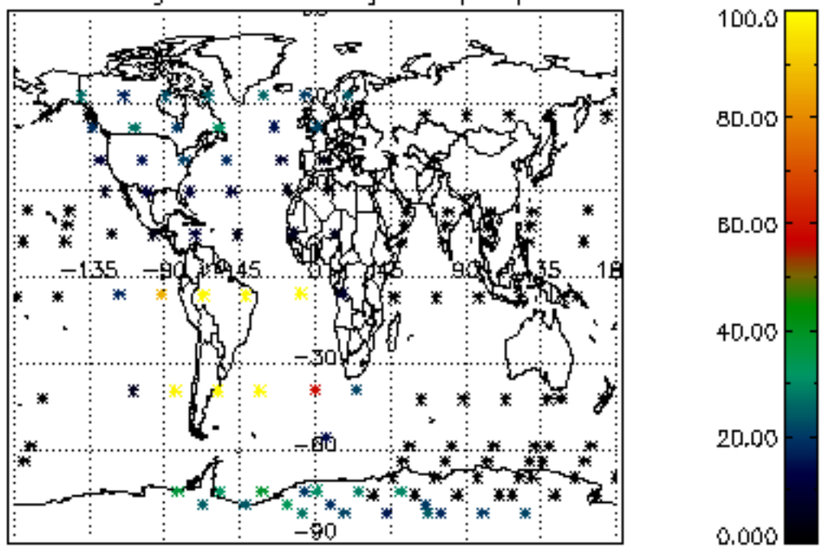

Spectrometer B CCD 1
Dark charge [e]
7000
6500
6000
5500
5000
4500
Upper
Middle
Lower
00:00.00 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time


Spectrometer B CCD 2
Dark charge [e]
6000
5800
5600
5400
5200
5000
4800
4600
Upper
Middle
Lower
00:00.00 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time

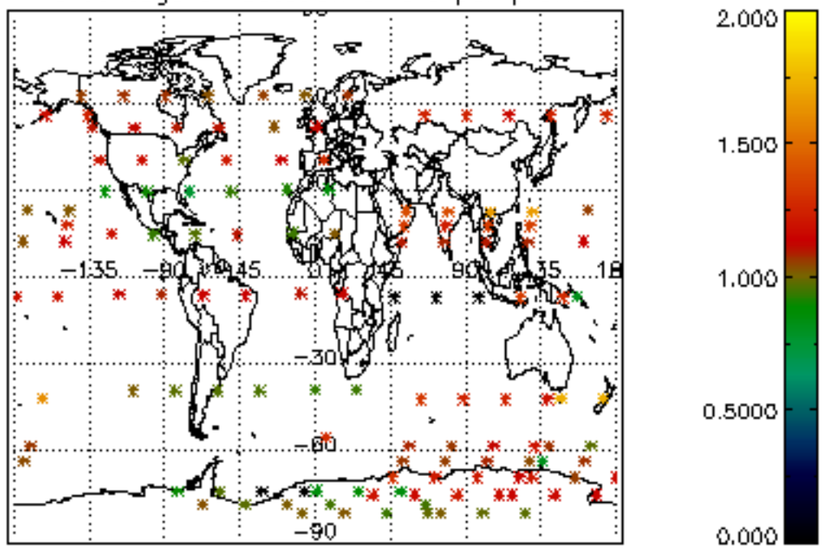

Photometers
Dark charge [e]
2900
2850
2800
2750
2700
2650
FPA
FPB
00:00.00 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time


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 26/07/2010
04:00.00 26/07/2010
08:00.00 26/07/2010
12:00.00 26/07/2010
16:00.00 26/07/2010
20:00.00 26/07/2010
00:00.00 27/07/2010
Time

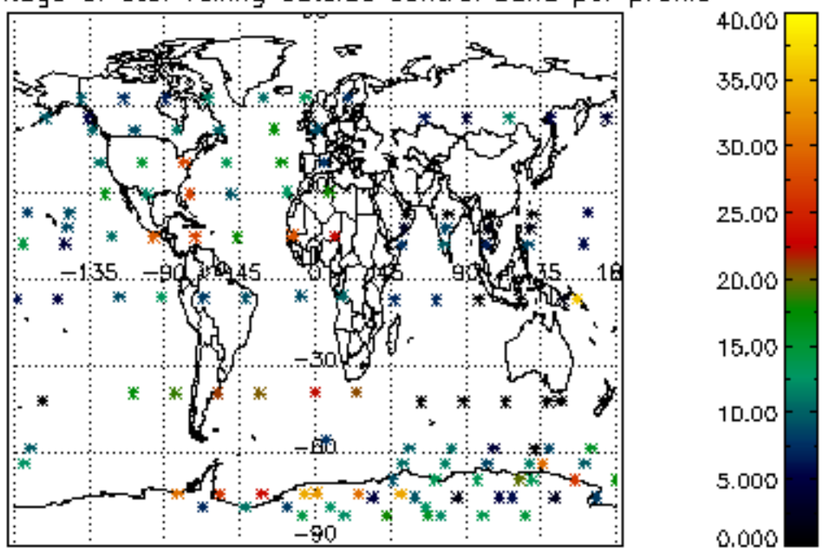
Percentage of cosmic ray hits per profile



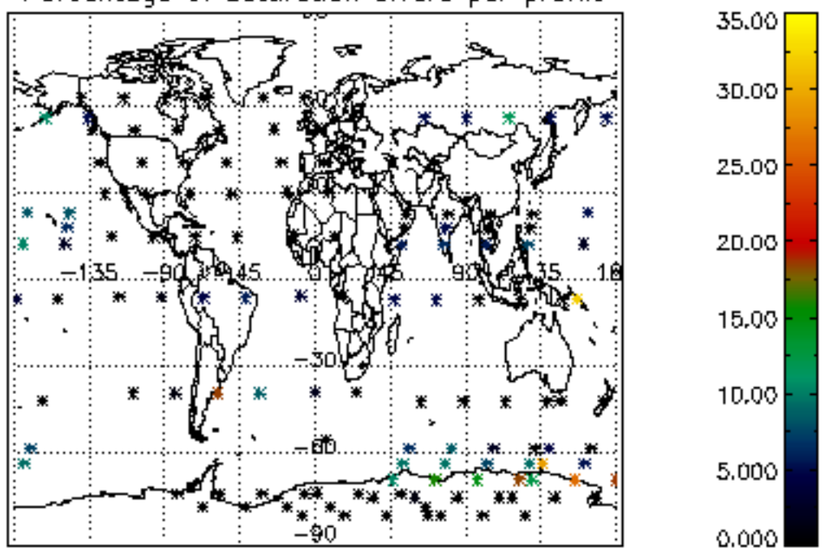
Percentage of datation errors per profile



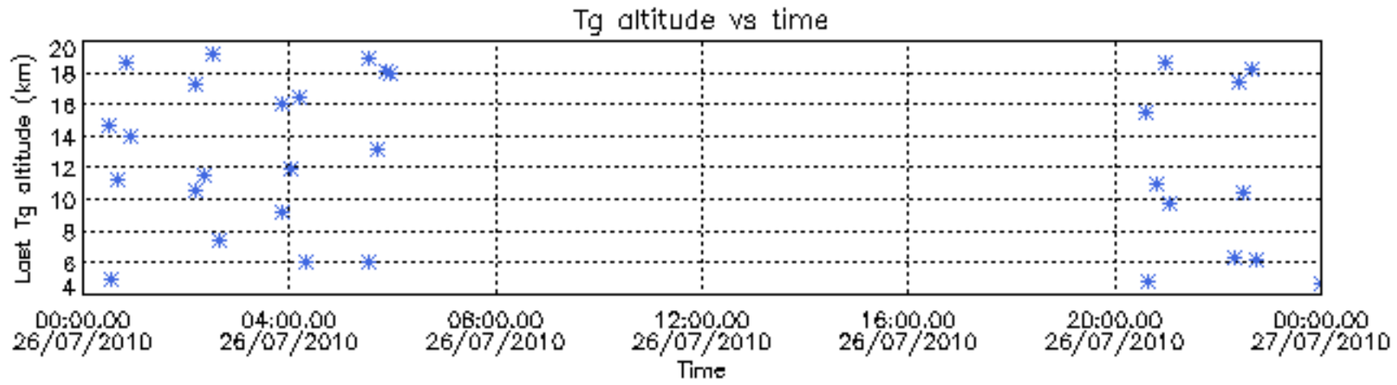
Percentage of star falling outside central band per profile

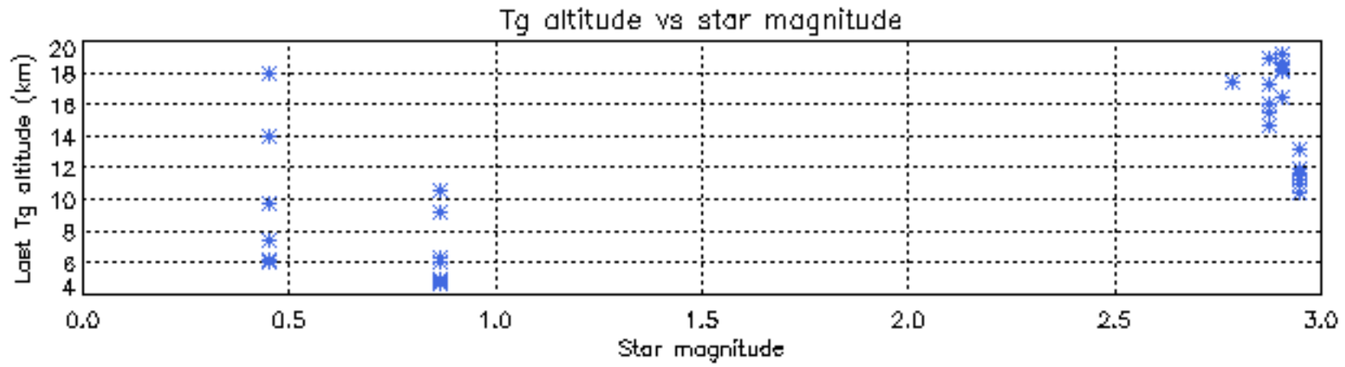


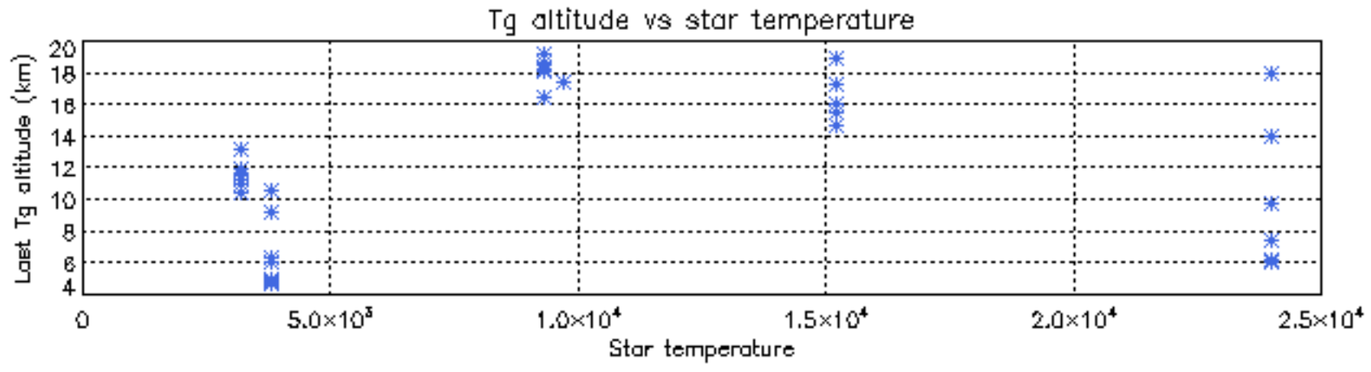
Percentage of saturation errors per profile



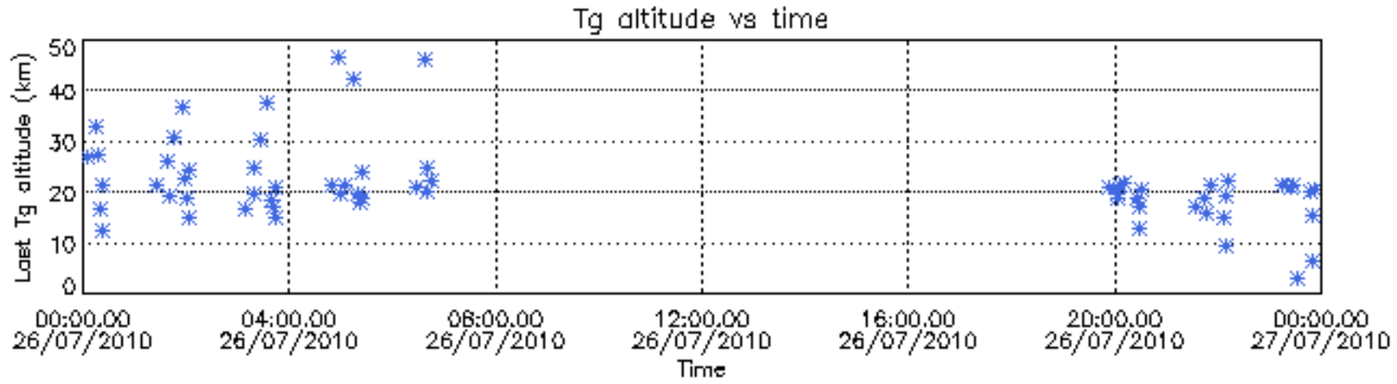
Tangent altitude at which the star is lost

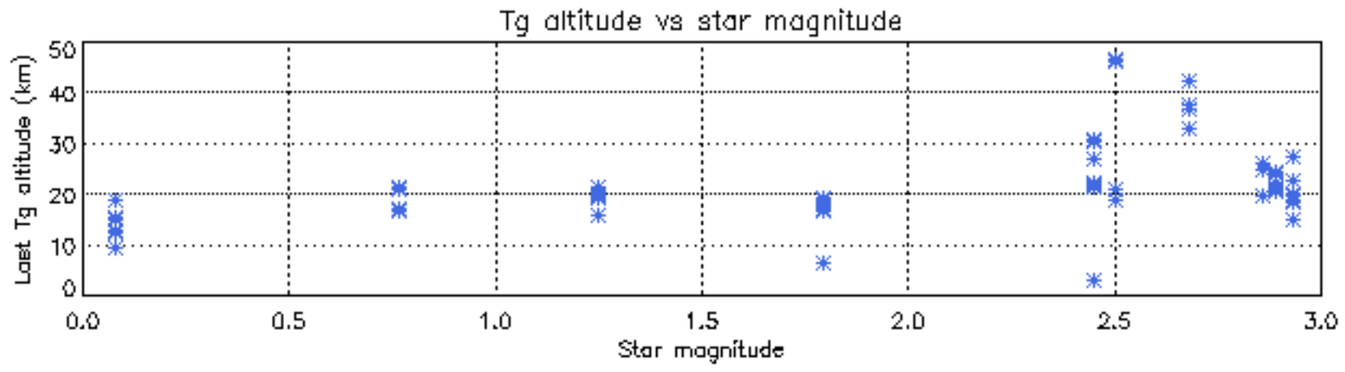


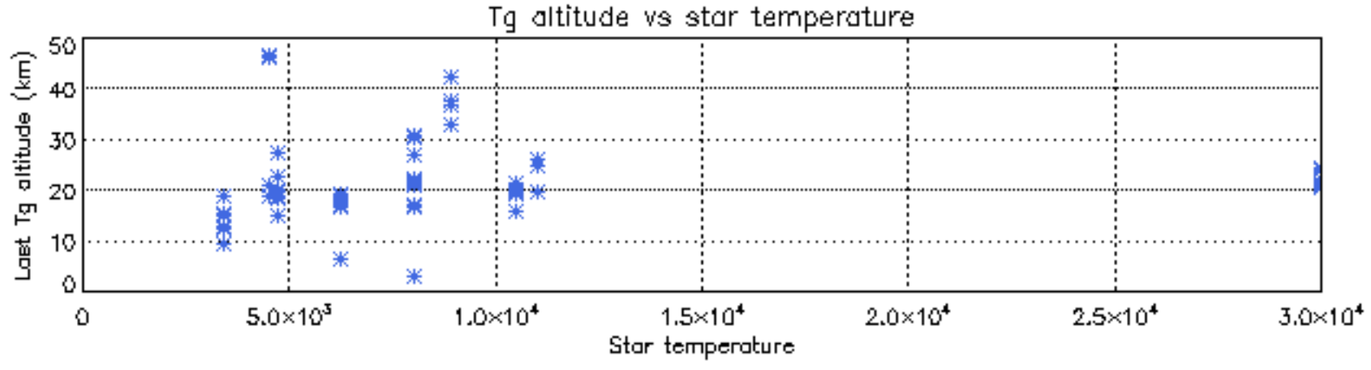


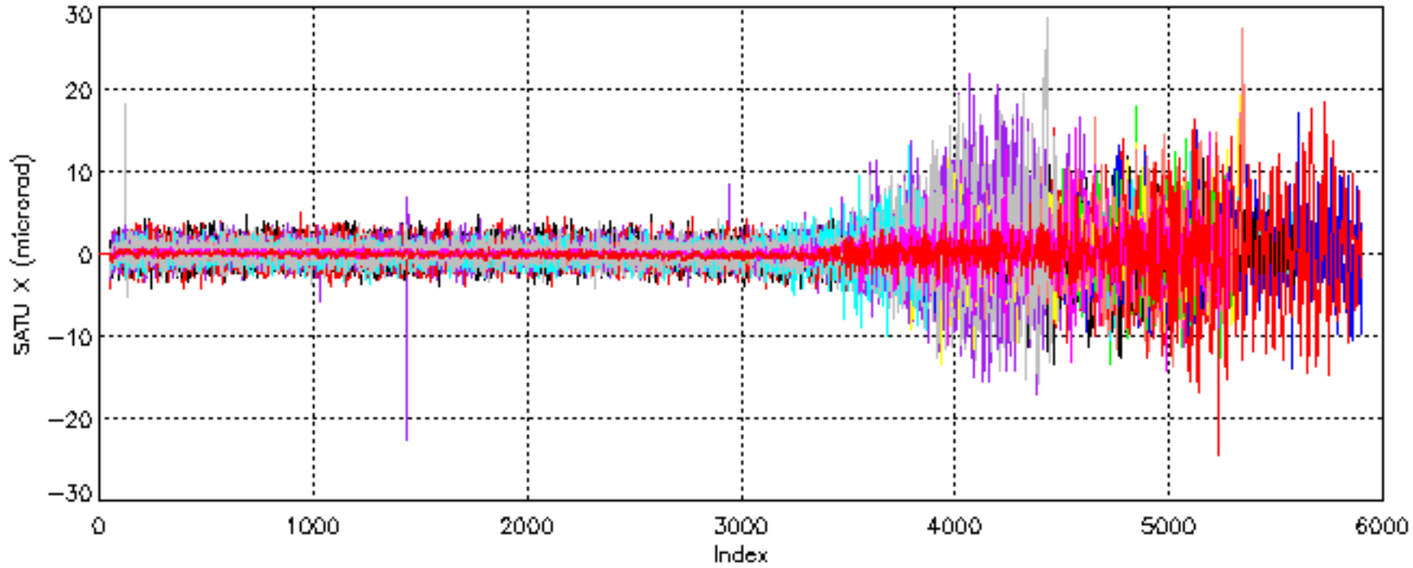


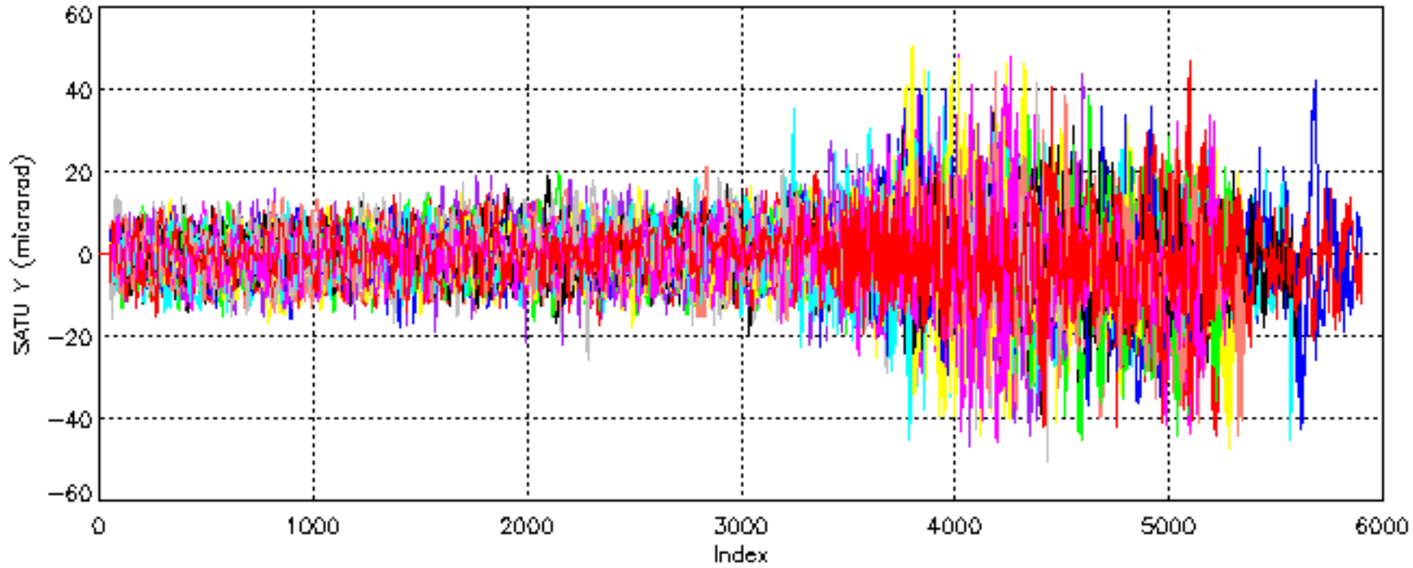
Tangent altitude at which the star is lost

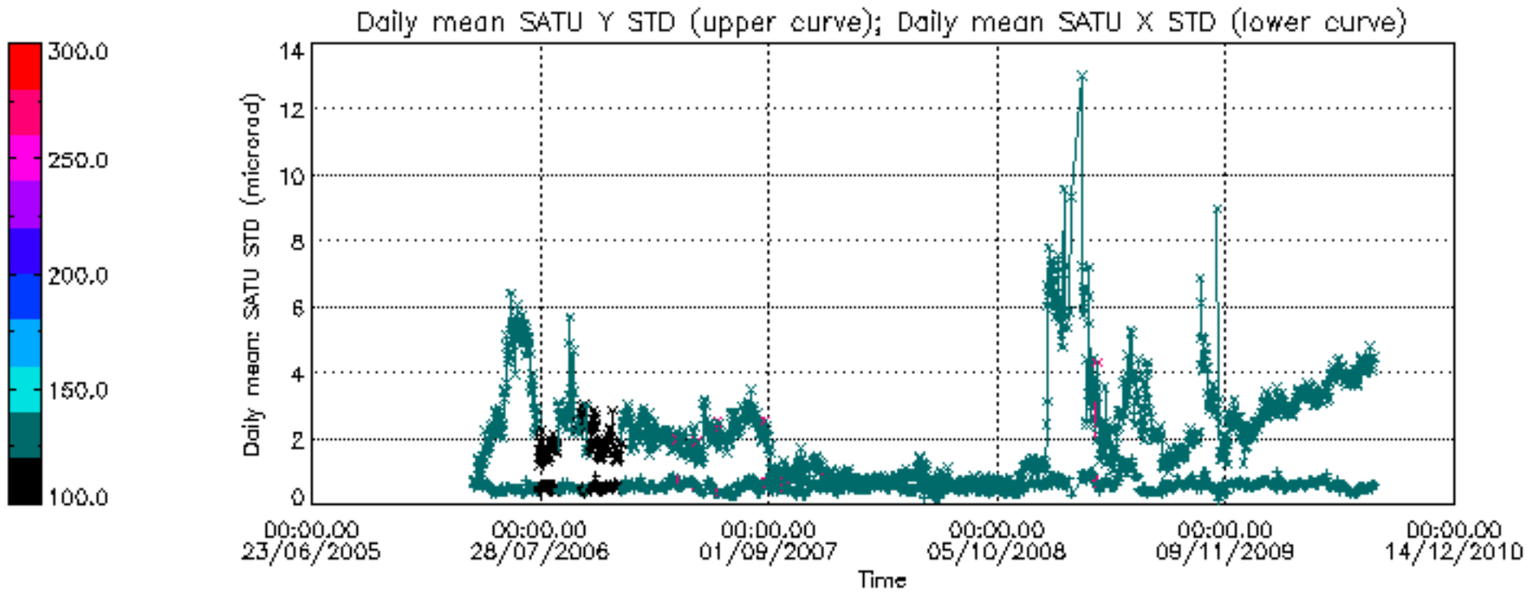







30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
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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2; 94.6; 01-JUL-2010 00:38:59; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43572
3; 483.7; 01-JUL-2010 00:45:28; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43572
4; 600.1; 01-JUL-2010 00:47:24; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43572
5; 743.9; 01-JUL-2010 00:49:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43572
6; 1314.0; 01-JUL-2010 00:59:18; Dark ; 49.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 98; 0;43572
7; 1480.2; 01-JUL-2010 01:02:04; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43572
8; 1981.6; 01-JUL-2010 01:10:26; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;43572
9; 2121.8; 01-JUL-2010 01:12:46; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43572
10; 2233.6; 01-JUL-2010 01:14:38; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43572
11; 2652.9; 01-JUL-2010 01:21:37; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43572
12; 2809.4; 01-JUL-2010 01:24:14; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43572
13; 2925.2; 01-JUL-2010 01:26:09; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43572
14; 3345.6; 01-JUL-2010 01:33:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43572
15; 3786.1; 01-JUL-2010 01:40:30; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43572
16; 3888.2; 01-JUL-2010 01:42:12; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;43572
17; 4062.4; 01-JUL-2010 01:45:07; Bright; 56.0; 160; 23Gam Per ; 2.93; 4700;occ; 112; 0;43572
18; 4266.8; 01-JUL-2010 01:48:31; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43572
19; 4424.1; 01-JUL-2010 01:51:08; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43572
20; 4678.5; 01-JUL-2010 01:55:23; Dark ; 60.5; 50; 13Alp Ari ; 2.01; 4250;occ; 121; 0;43572
21; 4976.2; 01-JUL-2010 02:00:20; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43572
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2; 95.3; 01-JUL-2010 02:19:35; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;43573
3; 484.4; 01-JUL-2010 02:26:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43573
4; 601.0; 01-JUL-2010 02:28:01; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;43573
5; 744.6; 01-JUL-2010 02:30:25; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;43573
6; 1314.3; 01-JUL-2010 02:39:54; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;43573
7; 1480.5; 01-JUL-2010 02:42:41; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43573
8; 1982.0; 01-JUL-2010 02:51:02; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43573
9; 2121.7; 01-JUL-2010 02:53:22; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43573
10; 2233.3; 01-JUL-2010 02:55:13; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;43573
11; 2652.5; 01-JUL-2010 03:02:13; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43573
12; 2809.3; 01-JUL-2010 03:04:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;43573
13; 2924.7; 01-JUL-2010 03:06:45; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43573
14; 3344.9; 01-JUL-2010 03:13:45; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43573
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2;-2148.4; 01-JUL-2010 03:22:48; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43573
3;-1973.6; 01-JUL-2010 03:25:42; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;43573
4;-1769.2; 01-JUL-2010 03:29:07; Bright; 65.0; 73; 57Gam1And ; 2.26; 13100;occ; 130; 0;43573
5;-1611.6; 01-JUL-2010 03:31:44; Dark ; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101; 0;43573
6;-1357.0; 01-JUL-2010 03:35:59; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43573
7;-1059.7; 01-JUL-2010 03:40:56; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43573
8; -534.6; 01-JUL-2010 03:49:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43573
9; 96.5; 01-JUL-2010 04:00:13; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43574
10; 485.6; 01-JUL-2010 04:06:42; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43574
11; 602.3; 01-JUL-2010 04:08:38; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43574
12; 744.8; 01-JUL-2010 04:11:01; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43574
13; 1314.7; 01-JUL-2010 04:20:31; Dark ; 45.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 90; 0;43574
14; 1388.9; 01-JUL-2010 04:21:45; Bright; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;43574
15; 1480.4; 01-JUL-2010 04:23:16; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43574
16; 1981.9; 01-JUL-2010 04:31:38; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43574
17; 2121.8; 01-JUL-2010 04:33:58; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;43574
18; 2232.8; 01-JUL-2010 04:35:49; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43574
19; 2652.2; 01-JUL-2010 04:42:48; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;43574
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   3; 2649.4; 01-JUL-2010 14:46:21; Bright;  47.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  95;   0;43580
   4; 2918.4; 01-JUL-2010 14:50:50; Bright;  48.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  97;   0;43580
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   7; 3782.2; 01-JUL-2010 15:05:14; Bright;  50.5;   74; 11Bet Cas  ; 2.27;  6600;occ; 101;   0;43580
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   8; 3875.2; 01-JUL-2010 16:47:23; Bright;  62.0;  110; 37Del Cas  ; 2.68;  8900;occ; 124;   0;43581
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  12; 5508.5; 01-JUL-2010 17:14:36; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;43581
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   9; 2645.9; 02-JUL-2010 02:30:29; Bright;  40.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  80;   0;43587
  10; 2912.5; 02-JUL-2010 02:34:56; Bright;  46.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  92;   0;43587
  11; 3129.0; 02-JUL-2010 02:38:32; Bright;  63.5;   19; 50Alp Cyg  ; 1.25; 10500;occ; 127;   0;43587
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  17; 4687.9; 02-JUL-2010 23:11:42; Dark  ;  66.5;   50; 13Alp Ari  ; 2.01;  4250;occ; 133;   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
   4;  510.5; 02-JUL-2010 23:42:41; Dark  ;  53.5;   63;   Bet Gru  ; 2.15;  2800;occ; 107;   0;43600
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  16; 4419.5; 03-JUL-2010 00:47:50; Dark  ;  72.5;   53; 43Bet And  ; 2.05;  3300;occ; 145;   0;43600
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   4; 3122.9; 02-JUL-2010 11:01:26; Bright;  57.5;   19; 50Alp Cyg  ; 1.25; 10500;occ; 115;   0;43592
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  15; 6648.1; 02-JUL-2010 13:40:47; Dark ; 85.5;   18; 24Alp PsA ; 1.17; 9700;occ; 171;   0;43594
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   5; 3120.2; 02-JUL-2010 14:22:35; Bright; 61.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 122;   0;43594
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6; 859.4; 07-JUL-2010 01:03:14; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43658
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   6; 2909.2; 16-JUL-2010 20:21:15; Bright;  47.0;   19; 50Alp Cyg  ; 1.25; 10500;occ;  94;   0;43798
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   8;  783.6; 16-JUL-2010 21:26:25; Dark  ;  55.0;   31;   Alp Gru  ; 1.73; 15200;occ; 110;   0;43799
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  10; 2698.8; 30-JUL-2010 22:58:43; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;44000
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  14; 4316.0; 30-JUL-2010 23:25:40; Bright;  46.0;  149; 45Eps Per  ; 2.89; 30000;occ;  92;   0;44000
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   3; 2582.7; 31-JUL-2010 20:44:34; Bright;  42.5;   92; 53Eps Cyg  ; 2.50;  4500;occ;  85;   0;44013
   4; 2696.1; 31-JUL-2010 20:46:27; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;44013
   5; 3093.5; 31-JUL-2010 20:53:05; Bright;  41.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  83;   0;44013
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   7; 4139.6; 31-JUL-2010 21:10:31; Bright;  53.0;  175; 39Del Per  ; 3.01; 19400;occ; 106;   0;44013
   8; 4315.6; 31-JUL-2010 21:13:27; Bright;  44.0;  149; 45Eps Per  ; 2.89; 30000;occ;  88;   0;44013
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  11; 4787.3; 31-JUL-2010 21:21:18; Dark  ;  55.5;   13; 87Alp Tau  ; 0.87;  3800;occ; 111;   0;44013
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   7; 1105.1; 31-JUL-2010 22:00:32; Dark  ;  44.5;  172;   Gam Gru  ; 3.00; 13100;occ;  89;   0;44014
   8; 2059.6; 31-JUL-2010 22:16:27; Bright;  38.0;   11; 53Alp Aql  ; 0.76;  8000;occ;  76;   0;44014
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  14; 4315.6; 01-AUG-2010 00:34:38; Bright;  46.0;  149; 45Eps Per  ; 2.89; 30000;occ;  92;   0;44015
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