GOMOS Daily Report 04-AUG-2009

Level 0 and Level 1 products

SUMMARY

1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
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   - 2.2 Level 0: plot of mission plan versus production during reporting period
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   - 2.4 Level 1: products arrived in PCF during reporting period

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   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
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   - 5.2 Plot of quality information per product (time dependant)
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7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
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       - 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.

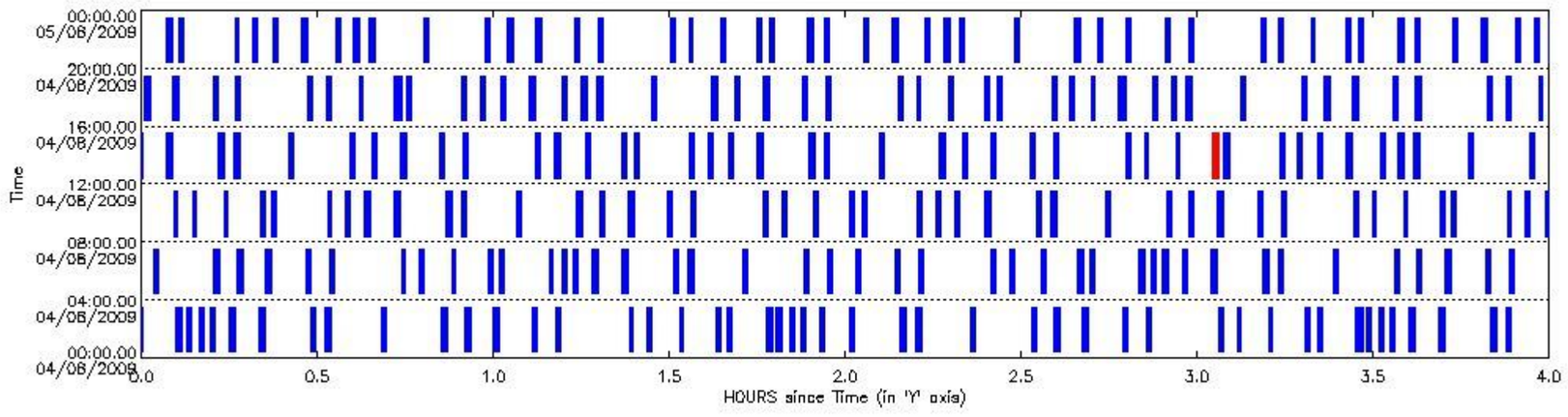
Item	Value
Time of report generation	06AUG2009 04:46:35
Data source version	GOMOS/5.00
Start time of products	04AUG2009 00:05:54
Stop time of products	04AUG2009 23:59:59
Store outputs in DB	Yes
Nb of level 1b prods	102
Nb of prods with errors	0

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)

UTC start time	Star name	Star ID	Orbit
04-AUG-2009 15:02:32	11BetCas	74	38842

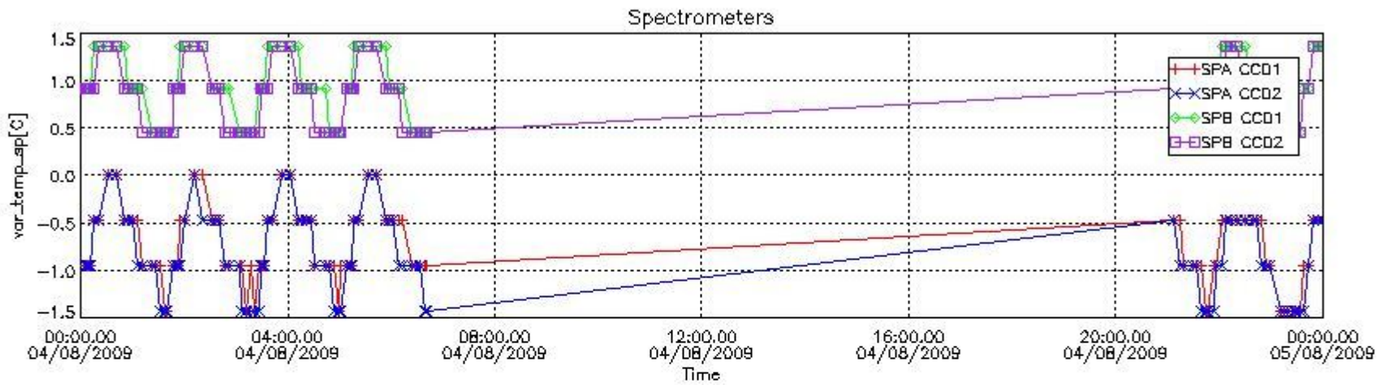
2.4 Summary of processed GOM_TRA_1P products

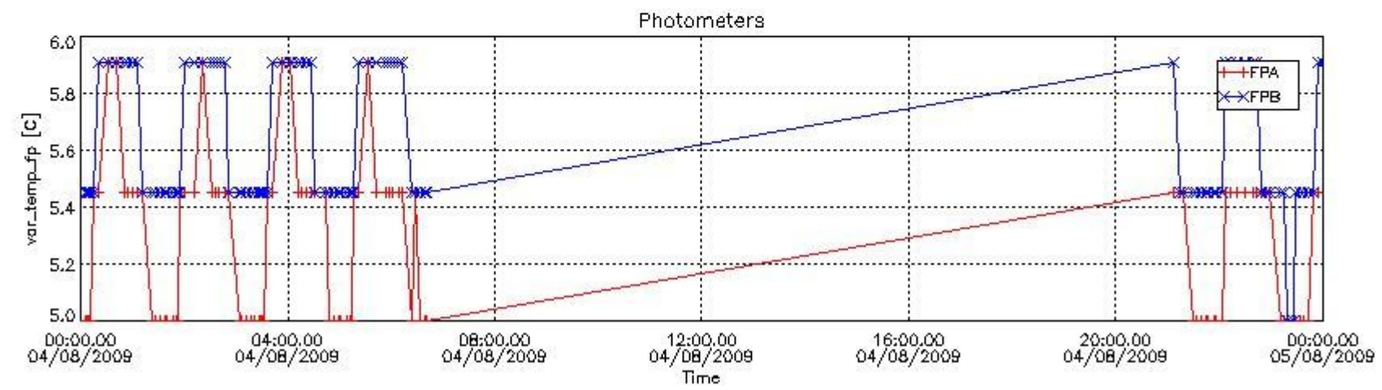
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090804_000554_000000622081_00202_38833_7202.N1	04-AUG-2009 00:05:54	Bright	62.000	160	23Gam Per	2.9300	4700.0	124	38833	No
2	GOM_TRA_1PNPDE20090804_000737_000000532081_00202_38833_7203.N1	04-AUG-2009 00:07:37	Bright	52.500	35	33Alp Per	1.7950	6250.0	105	38833	No
3	GOM_TRA_1PNPDE20090804_000952_000000462081_00202_38833_7204.N1	04-AUG-2009 00:09:52	Bright	46.000	6	13Alp Aur	0.080000	3400.0	92	38833	No
4	GOM_TRA_1PNPDE20090804_001145_000000502081_00202_38833_7205.N1	04-AUG-2009 00:11:45	Bright	49.500	149	45Eps Per	2.8880	30000.	99	38833	No
5	GOM_TRA_1PNPDE20090804_001458_000000582081_00202_38833_7206.N1	04-AUG-2009 00:14:58	Twi_and_stray	58.000	150	44Zet Per	2.8900	28000.	116	38833	No
6	GOM_TRA_1PNPDE20090804_001958_000000662081_00202_38833_7207.N1	04-AUG-2009 00:19:58	Dark	66.000	13	87Alp Tau	0.86700	3800.0	132	38833	No
7	GOM_TRA_1PNPDE20090804_003121_000000532081_00202_38833_7332.N1	04-AUG-2009 00:31:21	Dark	53.000	165	34Gam Eri	2.9500	3200.0	106	38833	No
8	GOM_TRA_1PNPDE20090804_004046_000000482081_00203_38834_7333.N1	04-AUG-2009 00:40:46	Dark	47.500	157	The1Eri	2.9060	9300.0	95	38834	No
9	GOM_TRA_1PNPDE20090804_005105_000000562081_00203_38834_7334.N1	04-AUG-2009 00:51:05	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	38834	No
10	GOM_TRA_1PNPDE20090804_005502_000000602081_00203_38834_7335.N1	04-AUG-2009 00:55:02	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38834	No

11	GOM_TRA_1PNPDE20090804_005949_000000652081_00203_38834_7336.N1	04-AUG-2009 00:59:49	Twi_and_stray	64.500	18	24Alp PsA	1.1660	9700.0	129	38834	No
12	GOM_TRA_1PNPDE20090804_010641_000000502081_00203_38834_7337.N1	04-AUG-2009 01:06:41	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	38834	No
13	GOM_TRA_1PNPDE20090804_011042_000000482081_00203_38834_7338.N1	04-AUG-2009 01:10:42	Bright	47.500	154	22Bet Aqr	2.8990	5700.0	95	38834	No
14	GOM_TRA_1PNPDE20090804_012305_000000432081_00203_38834_7339.N1	04-AUG-2009 01:23:05	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	38834	No
15	GOM_TRA_1PNPDE20090804_012614_000000412081_00203_38834_7340.N1	04-AUG-2009 01:26:14	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	38834	No
16	GOM_TRA_1PNPDE20090804_013140_000000402081_00203_38834_7341.N1	04-AUG-2009 01:31:40	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38834	No
17	GOM_TRA_1PNPDE20090804_013751_000000492081_00203_38834_7342.N1	04-AUG-2009 01:37:51	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	38834	No
18	GOM_TRA_1PNPDE20090804_013953_000000512081_00203_38834_7343.N1	04-AUG-2009 01:39:53	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	38834	No
19	GOM_TRA_1PNPDE20090804_014630_000000662081_00203_38834_7344.N1	04-AUG-2009 01:46:30	Bright	65.500	160	23Gam Per	2.9300	4700.0	131	38834	No
20	GOM_TRA_1PNPDE20090804_014813_000000532081_00203_38834_7345.N1	04-AUG-2009 01:48:13	Bright	53.000	35	33Alp Per	1.7950	6250.0	106	38834	No
21	GOM_TRA_1PNPDE20090804_015028_000000442081_00203_38834_7346.N1	04-AUG-2009 01:50:28	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	38834	No
22	GOM_TRA_1PNPDE20090804_015220_000000472081_00203_38834_7347.N1	04-AUG-2009 01:52:20	Bright	47.000	149	45Eps Per	2.8880	30000.	94	38834	No
23	GOM_TRA_1PNPDE20090804_015535_000000572081_00203_38834_7348.N1	04-AUG-2009 01:55:35	Twi_and_stray	57.000	150	44Zet Per	2.8900	28000.	114	38834	No
24	GOM_TRA_1PNPDE20090804_020034_000000612081_00203_38834_7349.N1	04-AUG-2009 02:00:34	Dark	60.500	13	87Alp Tau	0.86700	3800.0	121	38834	No
25	GOM_TRA_1PNPDE20090804_021158_000000572081_00203_38834_7473.N1	04-AUG-2009 02:11:58	Dark	56.500	165	34Gam Eri	2.9500	3200.0	113	38834	No
26	GOM_TRA_1PNPDE20090804_022123_000000482081_00204_38835_7474.N1	04-AUG-2009 02:21:23	Dark	47.500	157	The1Eri	2.9060	9300.0	95	38835	No
27	GOM_TRA_1PNPDE20090804_023142_000000552081_00204_38835_7475.N1	04-AUG-2009 02:31:42	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38835	No
28	GOM_TRA_1PNPDE20090804_023538_000000582081_00204_38835_7476.N1	04-AUG-2009 02:35:38	Straylight	57.500	63	Bet Gru	2.1500	2800.0	115	38835	No
29	GOM_TRA_1PNPDE20090804_024025_000000612081_00204_38835_7477.N1	04-AUG-2009 02:40:25	Twi_and_stray	60.500	18	24Alp PsA	1.1660	9700.0	121	38835	No
30	GOM_TRA_1PNPDE20090804_024717_000000512081_00204_38835_7478.N1	04-AUG-2009 02:47:17	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	38835	No
31	GOM_TRA_1PNPDE20090804_025118_000000512081_00204_38835_7479.N1	04-AUG-2009 02:51:18	Bright	51.000	154	22Bet Aqr	2.8990	5700.0	102	38835	No
32	GOM_TRA_1PNPDE20090804_030341_000000432081_00204_38835_7480.N1	04-AUG-2009 03:03:41	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	38835	No
33	GOM_TRA_1PNPDE20090804_030650_000000412081_00204_38835_7481.N1	04-AUG-2009 03:06:50	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	38835	No
34	GOM_TRA_1PNPDE20090804_031216_000000362081_00204_38835_7482.N1	04-AUG-2009 03:12:16	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	38835	No
35	GOM_TRA_1PNPDE20090804_031826_000000522081_00204_38835_7483.N1	04-AUG-2009 03:18:26	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	38835	No
36	GOM_TRA_1PNPDE20090804_032028_000000502081_00204_38835_7620.N1	04-AUG-2009 03:20:28	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38835	No
37	GOM_TRA_1PNPDE20090804_032705_000000712081_00204_38835_7621.N1	04-AUG-2009 03:27:05	Bright	71.000	160	23Gam Per	2.9300	4700.0	142	38835	No
38	GOM_TRA_1PNPDE20090804_032849_000000512081_00204_38835_7622.N1	04-AUG-2009 03:28:49	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	38835	No
39	GOM_TRA_1PNPDE20090804_033104_000000452081_00204_38835_7623.N1	04-AUG-2009 03:31:04	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	38835	No
40	GOM_TRA_1PNPDE20090804_033256_000000482081_00204_38835_7624.N1	04-AUG-2009 03:32:56	Bright	48.000	149	45Eps Per	2.8880	30000.	96	38835	No
41	GOM_TRA_1PNPDE20090804_033611_000000592081_00204_38835_7625.N1	04-AUG-2009 03:36:11	Twi_and_stray	59.000	150	44Zet Per	2.8900	28000.	118	38835	No
42	GOM_TRA_1PNPDE20090804_034111_000000592081_00204_38835_7626.N1	04-AUG-2009 03:41:11	Dark	58.500	13	87Alp Tau	0.86700	3800.0	117	38835	No
43	GOM_TRA_1PNPDE20090804_035235_000000562081_00204_38835_7627.N1	04-AUG-2009 03:52:35	Dark	56.000	165	34Gam Eri	2.9500	3200.0	112	38835	No
44	GOM_TRA_1PNPDE20090804_040200_000000502081_00205_38836_7628.N1	04-AUG-2009 04:02:00	Dark	49.500	157	The1Eri	2.9060	9300.0	99	38836	No
45	GOM_TRA_1PNPDE20090804_041219_000000612081_00205_38836_7629.N1	04-AUG-2009 04:12:19	Straylight	61.000	84	Alp Phe	2.3970	4500.0	122	38836	No
46	GOM_TRA_1PNPDE20090804_041615_000000572081_00205_38836_7630.N1	04-AUG-2009 04:16:15	Straylight	57.000	63	Bet Gru	2.1500	2800.0	114	38836	No
47	GOM_TRA_1PNPDE20090804_042102_000000622081_00205_38836_7631.N1	04-AUG-2009 04:21:02	Twi_and_stray	61.500	18	24Alp PsA	1.1660	9700.0	123	38836	No
48	GOM_TRA_1PNPDE20090804_042753_000000502081_00205_38836_7632.N1	04-AUG-2009 04:27:53	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	38836	No
49	GOM_TRA_1PNPDE20090804_043154_000000492081_00205_38836_7633.N1	04-AUG-2009 04:31:54	Bright	49.000	154	22Bet Aqr	2.8990	5700.0	98	38836	No
50	GOM_TRA_1PNPDE20090804_044416_000000442081_00205_38836_7634.N1	04-AUG-2009 04:44:16	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	38836	No
51	GOM_TRA_1PNPDE20090804_044725_000000412081_00205_38836_7635.N1	04-AUG-2009 04:47:25	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	38836	No
52	GOM_TRA_1PNPDE20090804_045252_000000402081_00205_38836_7636.N1	04-AUG-2009 04:52:52	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38836	No
53	GOM_TRA_1PNPDE20090804_045901_000000502081_00205_38836_7637.N1	04-AUG-2009 04:59:01	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38836	No
54	GOM_TRA_1PNPDE20090804_050104_000000502081_00205_38836_7638.N1	04-AUG-2009 05:01:04	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38836	No
55	GOM_TRA_1PNPDE20090804_050924_000000482081_00205_38836_7780.N1	04-AUG-2009 05:09:24	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	38836	No
56	GOM_TRA_1PNPDE20090804_051140_000000432081_00205_38836_7781.N1	04-AUG-2009 05:11:40	Bright	43.000	6	13Alp Aur	0.080000	3400.0	86	38836	No
57	GOM_TRA_1PNPDE20090804_051332_000000512081_00205_38836_7782.N1	04-AUG-2009 05:13:32	Bright	51.000	149	45Eps Per	2.8880	30000.	102	38836	No
58	GOM_TRA_1PNPDE20090804_051647_000000592081_00205_38836_7783.N1	04-AUG-2009 05:16:47	Twi_and_stray	58.500	150	44Zet Per	2.8900	28000.	117	38836	No
59	GOM_TRA_1PNPDE20090804_052147_000000672081_00205_38836_7784.N1	04-AUG-2009 05:21:47	Dark	67.000	13	87Alp Tau	0.86700	3800.0	134	38836	No
60	GOM_TRA_1PNPDE20090804_053312_000000592081_00205_38836_7785.N1	04-AUG-2009 05:33:12	Dark	59.000	165	34Gam Eri	2.9500	3200.0	118	38836	No
61	GOM_TRA_1PNPDE20090804_054237_000000472081_00206_38837_7786.N1	04-AUG-2009 05:42:37	Dark	46.500	157	The1Eri	2.9060	9300.0	93	38837	No
62	GOM_TRA_1PNPDE20090804_055256_000000552081_00206_38837_7787.N1	04-AUG-2009 05:52:56	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38837	No
63	GOM_TRA_1PNPDE20090804_055652_000000472081_00206_38837_7788.N1	04-AUG-2009 05:56:52	Straylight	47.000	63	Bet Gru	2.1500	2800.0	94	38837	No
64	GOM_TRA_1PNPDE20090804_060139_000000612081_00206_38837_7789.N1	04-AUG-2009 06:01:39	Twi_and_stray	60.500	18	24Alp PsA	1.1660	9700.0	121	38837	No
65	GOM_TRA_1PNPDE20090804_060829_000000512081_00206_38837_7790.N1	04-AUG-2009 06:08:29	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	38837	No
66	GOM_TRA_1PNPDE20090804_061230_000000502081_00206_38837_7791.N1	04-AUG-2009 06:12:30	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	38837	No
67	GOM_TRA_1PNPDE20090804_062452_000000432081_00206_38837_7792.N1	04-AUG-2009 06:24:52	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	38837	No
68	GOM_TRA_1PNPDE20090804_062801_000000492081_00206_38837_7793.N1	04-AUG-2009 06:28:01	Bright	49.000	19	50Alp Cyg	1.2460	10500.	98	38837	No
69	GOM_TRA_1PNPDE20090804_063327_000000402081_00206_38837_7794.N1	04-AUG-2009 06:33:27	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38837	No

70	GOM_TRA_1PNPDE20090804_063937_000000622081_00206_38837_7795.N1	04-AUG-2009 06:39:37	Bright	62.000	74	11Bet Cas	2.2680	6600.0	124	38837	No
71	GOM_TRA_1PNPDE20090804_064139_000000492081_00206_38837_7796.N1	04-AUG-2009 06:41:39	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	38837	No
72	GOM_TRA_1PNPDE20090804_210708_000000612081_00215_38846_8180.N1	04-AUG-2009 21:07:08	Twi_and_stray	60.500	18	24Alp PsA	1.1660	9700.0	121	38846	No
73	GOM_TRA_1PNPDE20090804_211354_000000472081_00215_38846_8181.N1	04-AUG-2009 21:13:54	Bright	47.000	142	49Del Cap	2.8500	8900.0	94	38846	No
74	GOM_TRA_1PNPDE20090804_211752_000000492081_00215_38846_8182.N1	04-AUG-2009 21:17:52	Bright	49.000	154	22Bet Aqr	2.8990	5700.0	98	38846	No
75	GOM_TRA_1PNPDE20090804_213011_000000412081_00215_38846_8183.N1	04-AUG-2009 21:30:11	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	38846	No
76	GOM_TRA_1PNPDE20090804_213321_000000422081_00215_38846_8184.N1	04-AUG-2009 21:33:21	Bright	41.500	19	50Alp Cyg	1.2460	10500.	83	38846	No
77	GOM_TRA_1PNPDE20090804_213847_000000402081_00215_38846_8185.N1	04-AUG-2009 21:38:47	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38846	No
78	GOM_TRA_1PNPDE20090804_214453_000000492081_00215_38846_8186.N1	04-AUG-2009 21:44:53	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	38846	No
79	GOM_TRA_1PNPDE20090804_214656_000000512081_00215_38846_8187.N1	04-AUG-2009 21:46:56	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	38846	No
80	GOM_TRA_1PNPDE20090804_215336_000000502081_00215_38846_8188.N1	04-AUG-2009 21:53:36	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	38846	No
81	GOM_TRA_1PNPDE20090804_215625_000000482081_00215_38846_8189.N1	04-AUG-2009 21:56:25	Bright	47.500	175	39Del Per	3.0100	19400.	95	38846	No
82	GOM_TRA_1PNPDE20090804_220302_000000472081_00215_38846_8190.N1	04-AUG-2009 22:03:02	Bright	47.000	28	12Bet Tau	1.6500	15200.	94	38846	No
83	GOM_TRA_1PNPDE20090804_220751_000000672081_00215_38846_8191.N1	04-AUG-2009 22:07:51	Dark	67.000	13	87Alp Tau	0.86700	3800.0	134	38846	No
84	GOM_TRA_1PNPDE20090804_221337_000000442081_00215_38846_8192.N1	04-AUG-2009 22:13:37	Dark	43.500	128	67Bet Eri	2.7840	9700.0	87	38846	No
85	GOM_TRA_1PNPDE20090804_221922_000000582081_00215_38846_8328.N1	04-AUG-2009 22:19:22	Dark	58.000	165	34Gam Eri	2.9500	3200.0	116	38846	No
86	GOM_TRA_1PNPDE20090804_222846_000000492081_00216_38847_8329.N1	04-AUG-2009 22:28:46	Dark	49.000	157	The1Eri	2.9060	9300.0	98	38847	No
87	GOM_TRA_1PNPDE20090804_223906_000000532081_00216_38847_8330.N1	04-AUG-2009 22:39:06	Straylight	53.000	84	Alp Phe	2.3970	4500.0	106	38847	No
88	GOM_TRA_1PNPDE20090804_224257_000000542081_00216_38847_8331.N1	04-AUG-2009 22:42:57	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38847	No
89	GOM_TRA_1PNPDE20090804_224744_000000612081_00216_38847_8332.N1	04-AUG-2009 22:47:44	Twi_and_stray	61.000	18	24Alp PsA	1.1660	9700.0	122	38847	No
90	GOM_TRA_1PNPDE20090804_225430_000000482081_00216_38847_8333.N1	04-AUG-2009 22:54:30	Bright	47.500	142	49Del Cap	2.8500	8900.0	95	38847	No
91	GOM_TRA_1PNPDE20090804_225827_000000482081_00216_38847_8334.N1	04-AUG-2009 22:58:27	Bright	47.500	154	22Bet Aqr	2.8990	5700.0	95	38847	No
92	GOM_TRA_1PNPDE20090804_231047_000000602081_00216_38847_8335.N1	04-AUG-2009 23:10:47	Bright	59.500	92	53Eps Cyg	2.5000	4500.0	119	38847	No
93	GOM_TRA_1PNPDE20090804_231356_000000382081_00216_38847_8336.N1	04-AUG-2009 23:13:56	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	38847	No
94	GOM_TRA_1PNPDE20090804_231922_000000372081_00216_38847_8337.N1	04-AUG-2009 23:19:22	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	38847	No
95	GOM_TRA_1PNPDE20090804_232528_000000502081_00216_38847_8338.N1	04-AUG-2009 23:25:28	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38847	No
96	GOM_TRA_1PNPDE20090804_232731_000000492081_00216_38847_8339.N1	04-AUG-2009 23:27:31	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	38847	No
97	GOM_TRA_1PNPDE20090804_233411_000000582081_00216_38847_8340.N1	04-AUG-2009 23:34:11	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	38847	No
98	GOM_TRA_1PNPDE20090804_233701_000000522081_00216_38847_8341.N1	04-AUG-2009 23:37:01	Bright	52.000	175	39Del Per	3.0100	19400.	104	38847	No
99	GOM_TRA_1PNPDE20090804_234338_000000462081_00216_38847_8342.N1	04-AUG-2009 23:43:38	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	38847	No
100	GOM_TRA_1PNPDE20090804_234827_000000622081_00216_38847_8343.N1	04-AUG-2009 23:48:27	Dark	61.500	13	87Alp Tau	0.86700	3800.0	123	38847	No
101	GOM_TRA_1PNPDE20090804_235414_000000472081_00216_38847_8344.N1	04-AUG-2009 23:54:14	Dark	47.000	128	67Bet Eri	2.7840	9700.0	94	38847	No
102	GOM_TRA_1PNPDE20090804_235959_000000612081_00216_38847_8467.N1	04-AUG-2009 23:59:59	Dark	60.500	165	34Gam Eri	2.9500	3200.0	121	38847	No

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





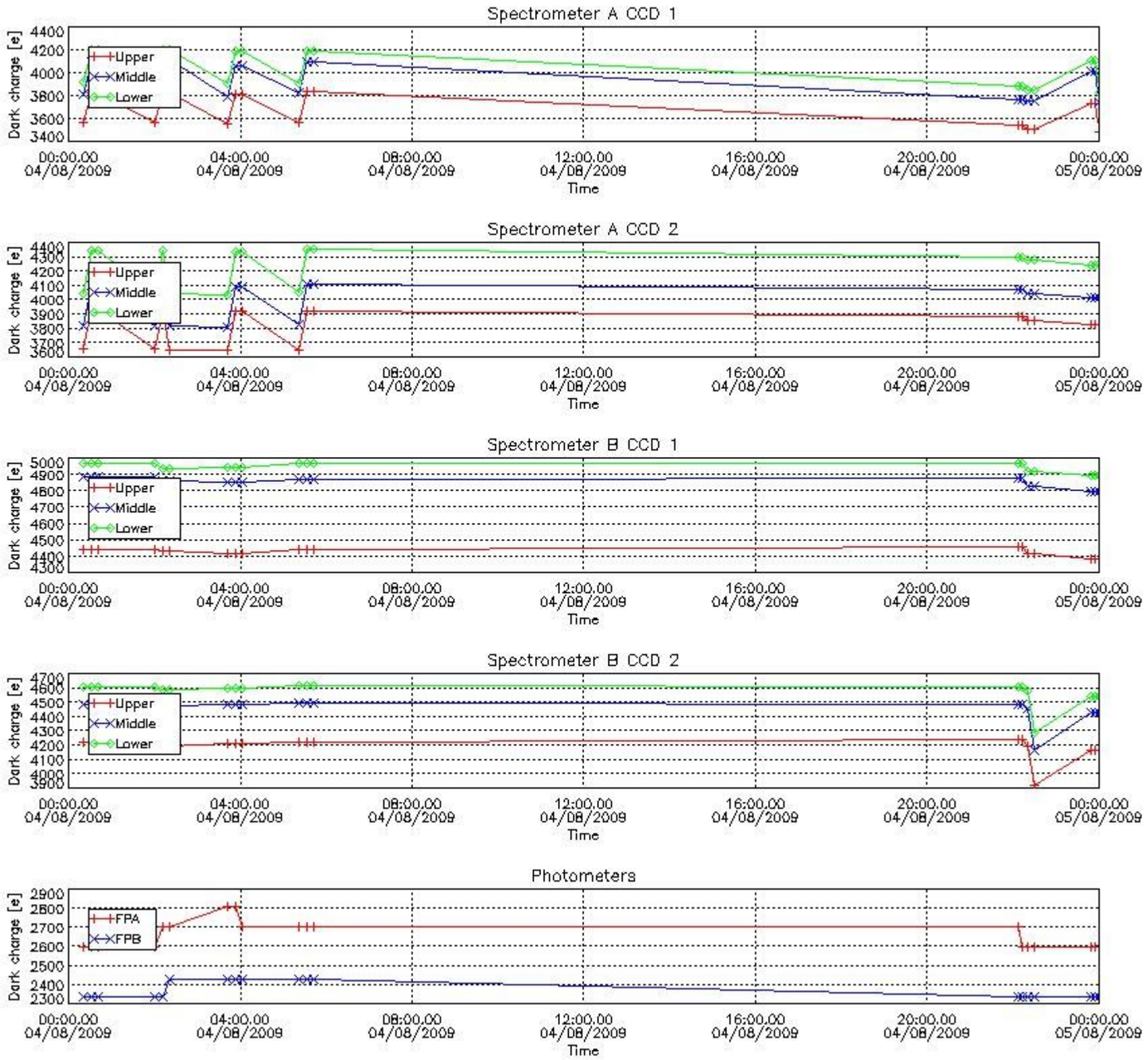
4. Overview of dark signal processing per product

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_1PNPDE20090804_210708_000000612081_00215_38846_8180.N1	DC map used
GOM_TRA_1PNPDE20090804_211354_000000472081_00215_38846_8181.N1	DC map used
GOM_TRA_1PNPDE20090804_211752_000000492081_00215_38846_8182.N1	DC map used
GOM_TRA_1PNPDE20090804_213011_000000412081_00215_38846_8183.N1	DC map used
GOM_TRA_1PNPDE20090804_213321_000000422081_00215_38846_8184.N1	DC map used
GOM_TRA_1PNPDE20090804_213847_000000402081_00215_38846_8185.N1	DC map used
GOM_TRA_1PNPDE20090804_214453_000000492081_00215_38846_8186.N1	DC map used
GOM_TRA_1PNPDE20090804_214656_000000512081_00215_38846_8187.N1	DC map used
GOM_TRA_1PNPDE20090804_215336_000000502081_00215_38846_8188.N1	DC map used
GOM_TRA_1PNPDE20090804_215625_000000482081_00215_38846_8189.N1	DC map used
GOM_TRA_1PNPDE20090804_220302_000000472081_00215_38846_8190.N1	DC map used
GOM_TRA_1PNPDE20090804_220751_000000672081_00215_38846_8191.N1	DC map used
GOM_TRA_1PNPDE20090804_221337_000000442081_00215_38846_8192.N1	DC map used

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



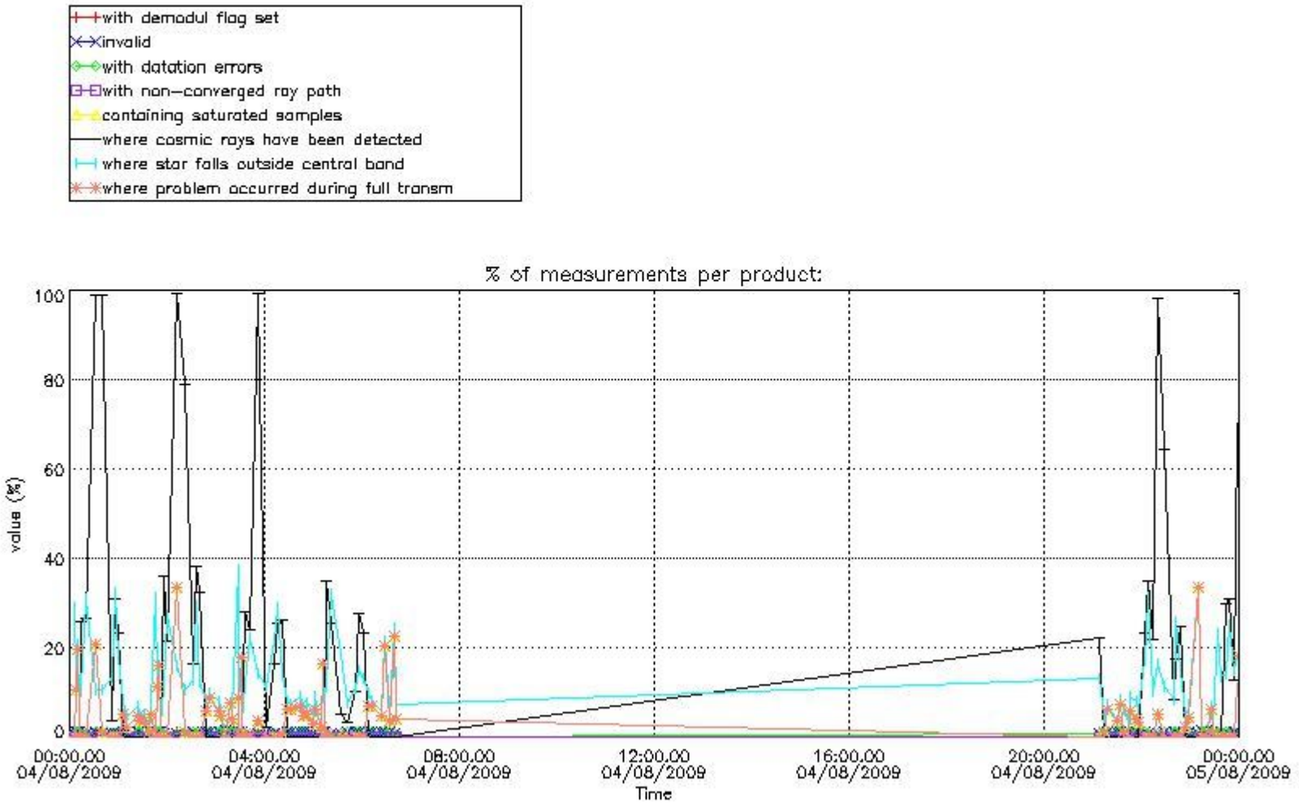
5. Demodulation flag and quality information monitoring

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:

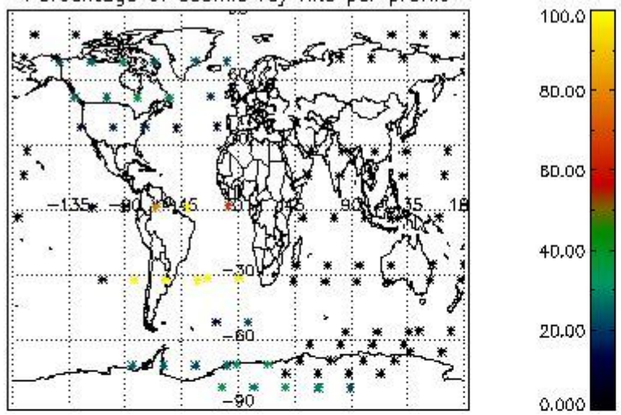
At least one measurement with demodulation flag set:	29.4118 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

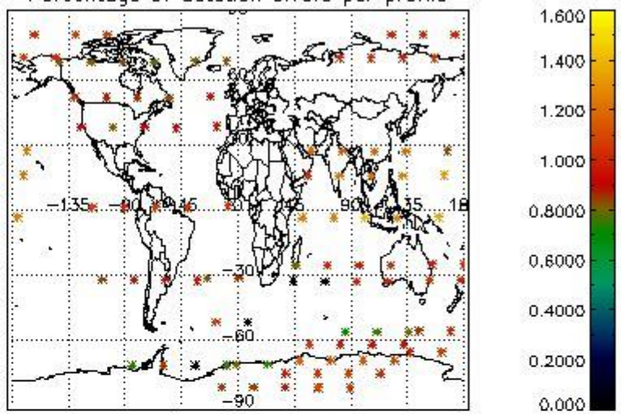


5.3 Plot quality information per product (world map)

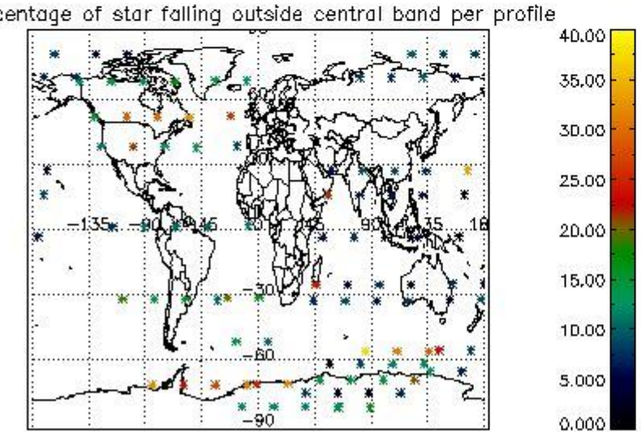
Percentage of cosmic ray hits per profile



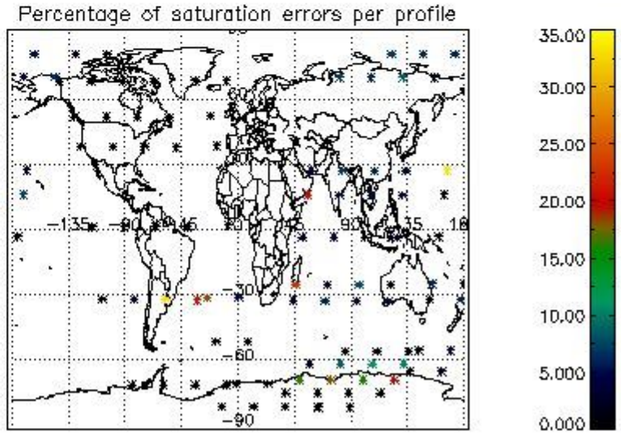
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



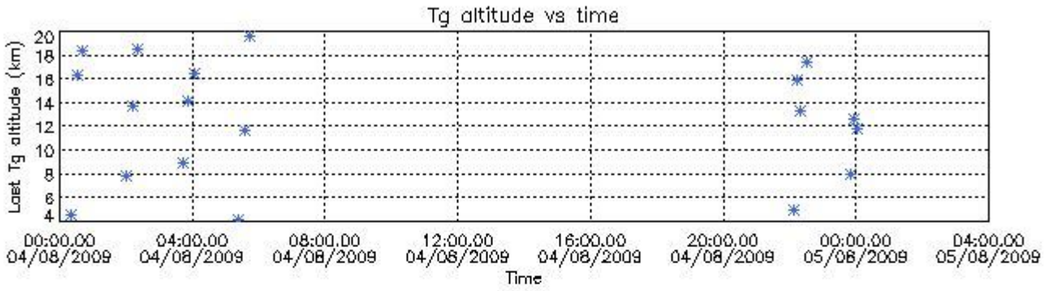
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

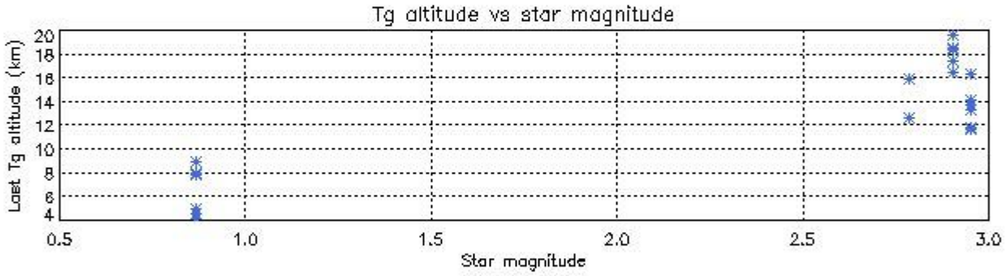
6.1 Statistics on tangent altitude lost:

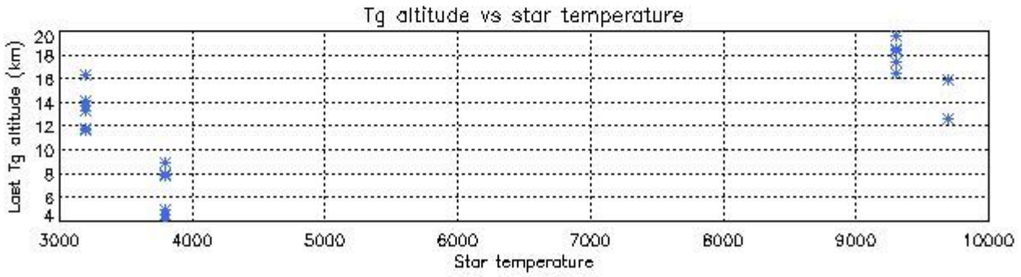
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.524	18.449	NaN
St. deviation:	4.9373	5.0611	NaN
Maximum:	19.622	30.639	NaN
Minimum:	4.0943	3.6776	NaN
Number of data:	19.000	63.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

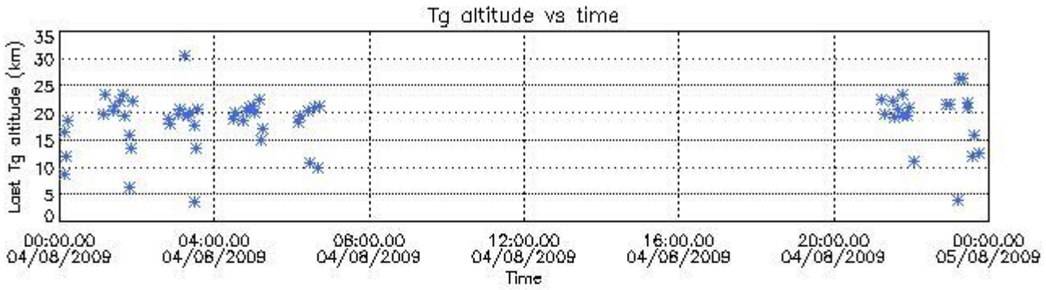


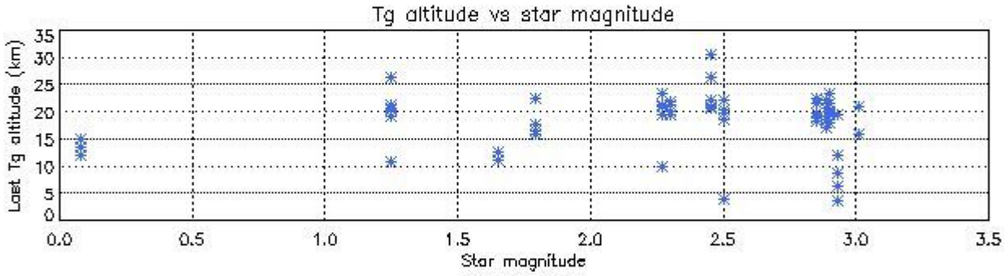


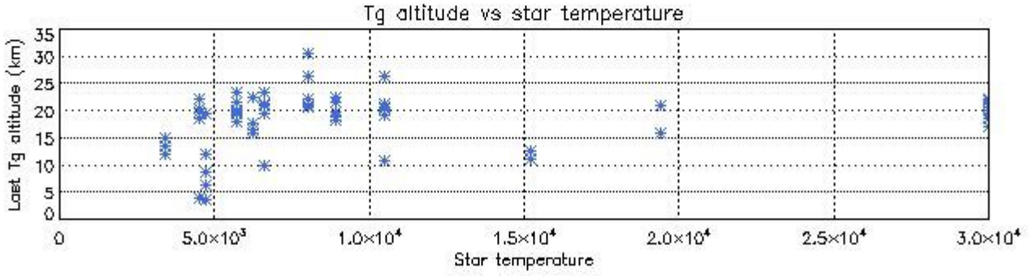


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





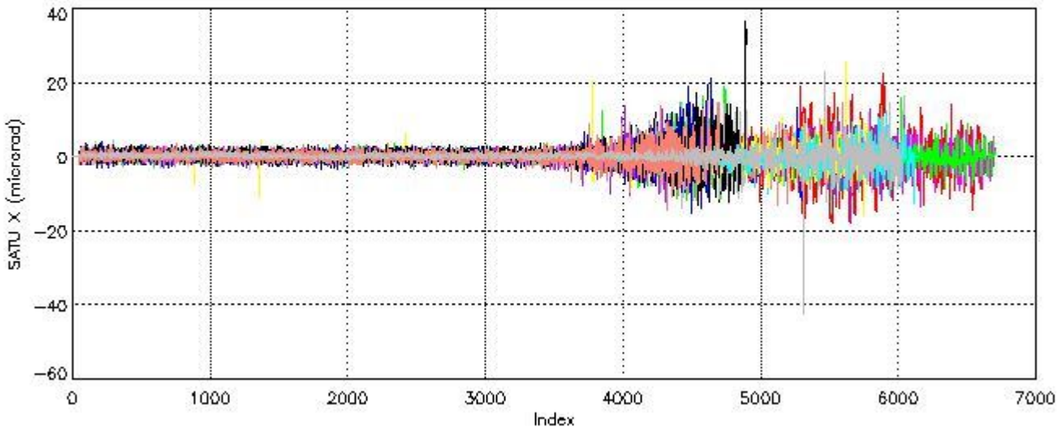


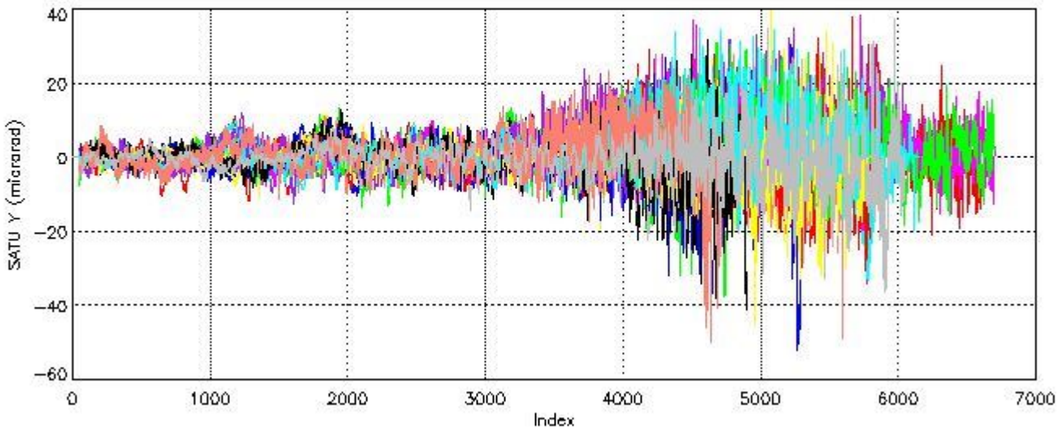
7. Star Acquisition and Tracking Unit (SATU)

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:	0.24161	-0.44270	0.28561	-0.45930
St. deviation:	0.52768	1.7291	0.79117	1.6990
Maximum:	4.3000	8.3000	7.0000	11.000
Minimum:	-7.3000	-10.300	-6.2000	-10.200

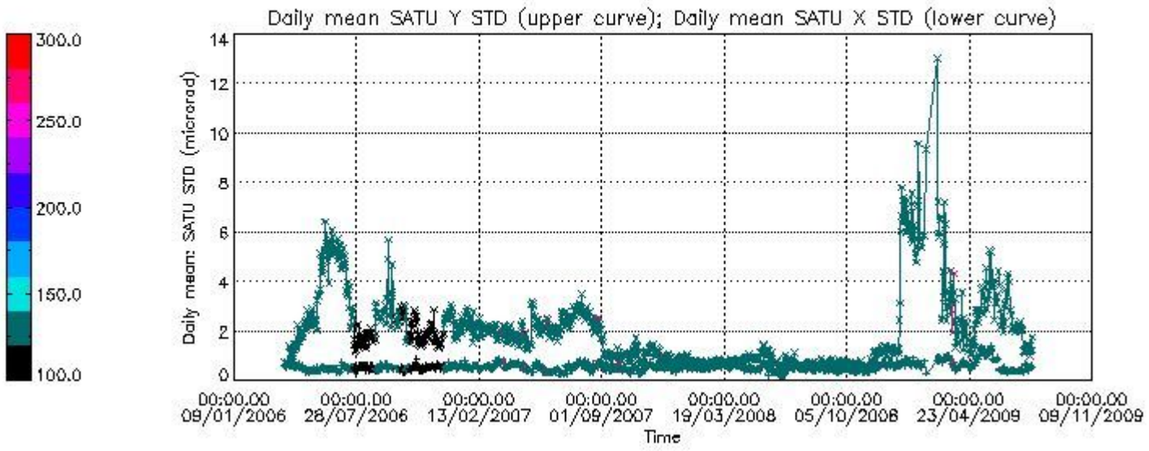
Number of data:	21600.	21600.	67050.	67050.

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

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

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

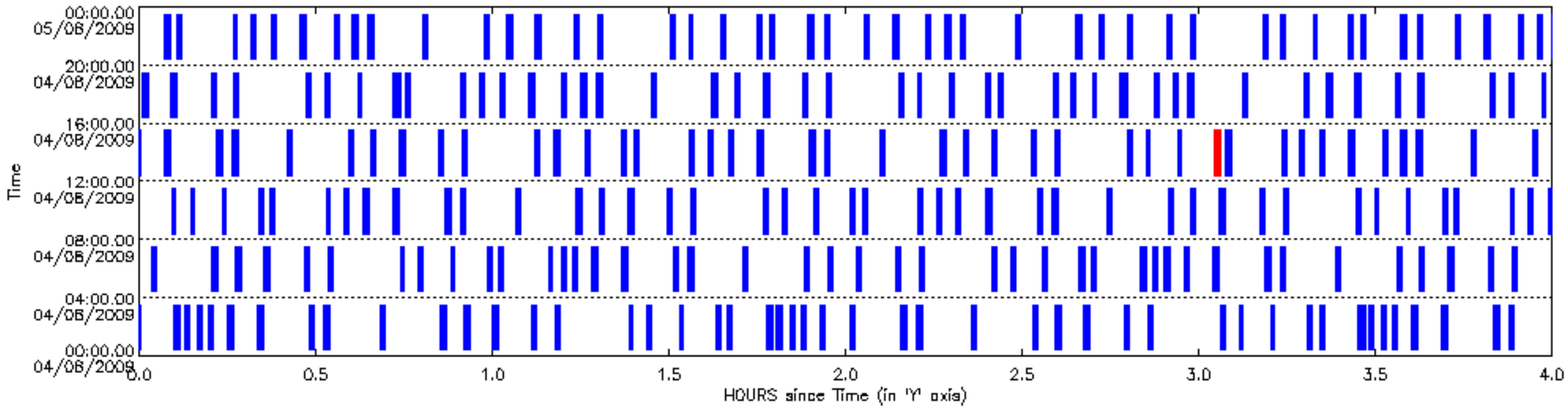
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

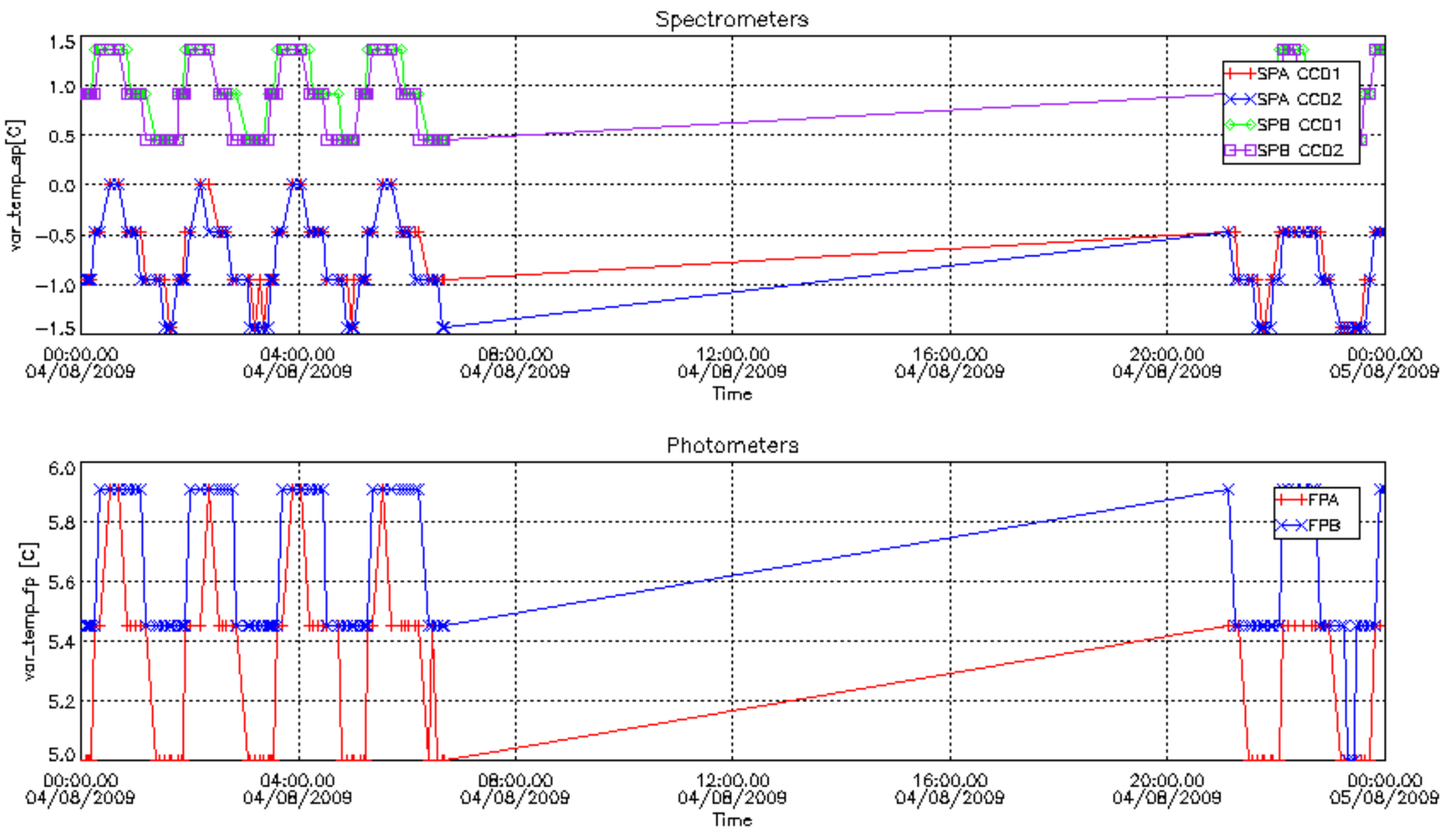


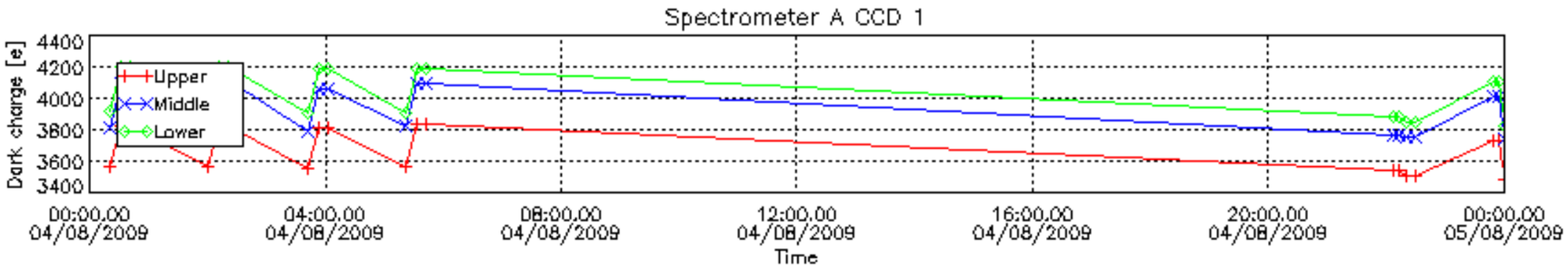
8. Auxiliary Data Files used for the production reported in section 2.4

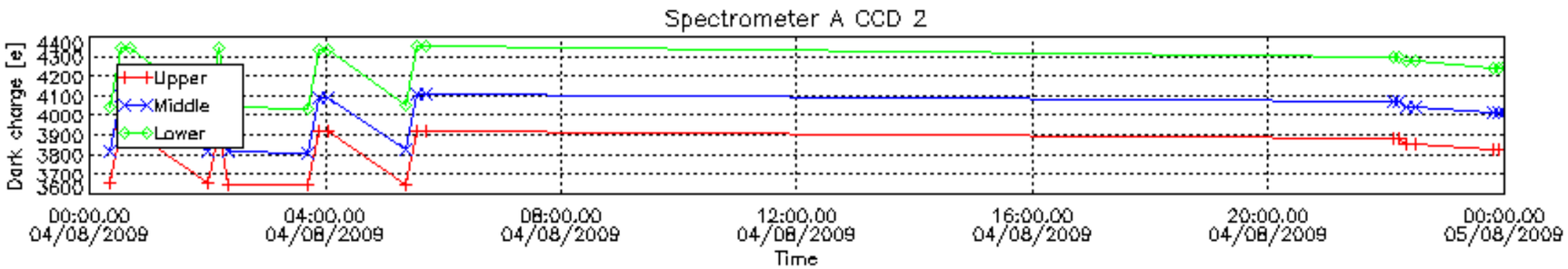
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

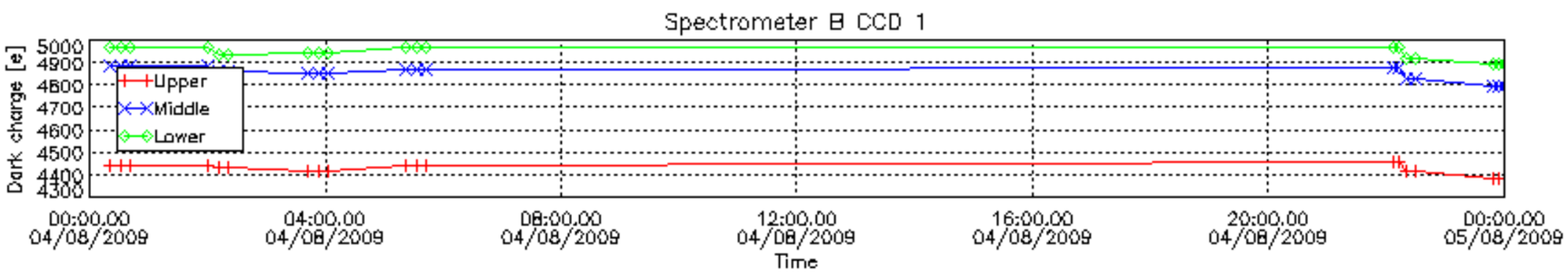
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-AUG-2009 00:05:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090730_093840_20090728_000000_20100101_000000	1	04-AUG-2009 00:05:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-AUG-2009 00:05:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-AUG-2009 00:05:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-AUG-2009 00:05:54
ECMWF_FILE	AUX_ECF_AXNECM20090803_130744_20090803_210000_20090804_090000	1	04-AUG-2009 00:05:54
ECMWF_FILE	AUX_ECF_AXNECM20090803_184111_20090804_030000_20090804_150000	36	04-AUG-2009 03:20:28
ECMWF_FILE	AUX_ECF_AXNECM20090804_064111_20090804_210000_20090805_090000	72	04-AUG-2009 21:07:08
OPTIONAL_ECMWF_FILE	MISSING	1	04-AUG-2009 00:05:54
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090803_210007_000060572081_00200_38831_8483.N1	1	04-AUG-2009 00:05:54
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090803_224623_000057382081_00201_38832_8484.N1	7	04-AUG-2009 00:31:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090804_002720_000054192081_00202_38833_8485.N1	25	04-AUG-2009 02:11:58
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090804_020258_000041442081_00203_38834_8486.N1	36	04-AUG-2009 03:20:28
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090804_031721_000057382081_00204_38835_8487.N1	55	04-AUG-2009 05:09:24
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090804_205959_000041442081_00215_38846_8489.N1	72	04-AUG-2009 21:07:08
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20090804_221422_000057382081_00215_38846_8490.N1	102	04-AUG-2009 23:59:59

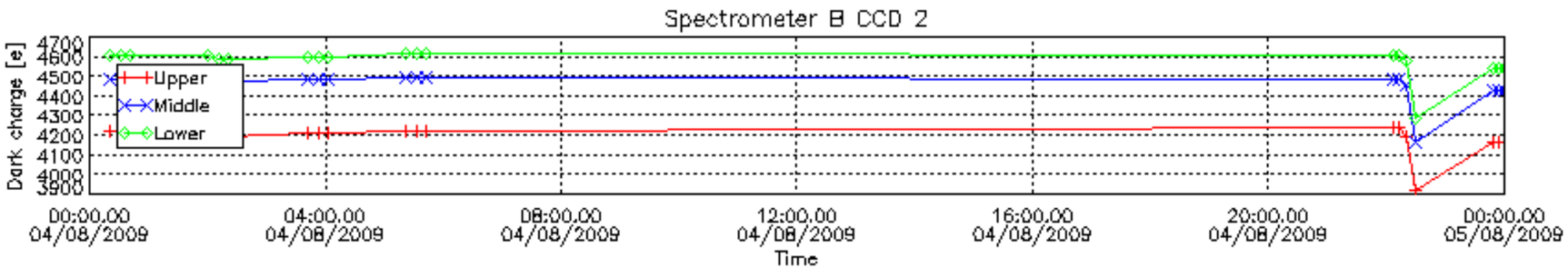

00:00.00
05/08/2009
20:00.00
04/08/2009
16:00.00
04/08/2009
12:00.00
04/08/2009
08:00.00
04/08/2009
04:00.00
04/08/2009
00:00.00
04/08/2009
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

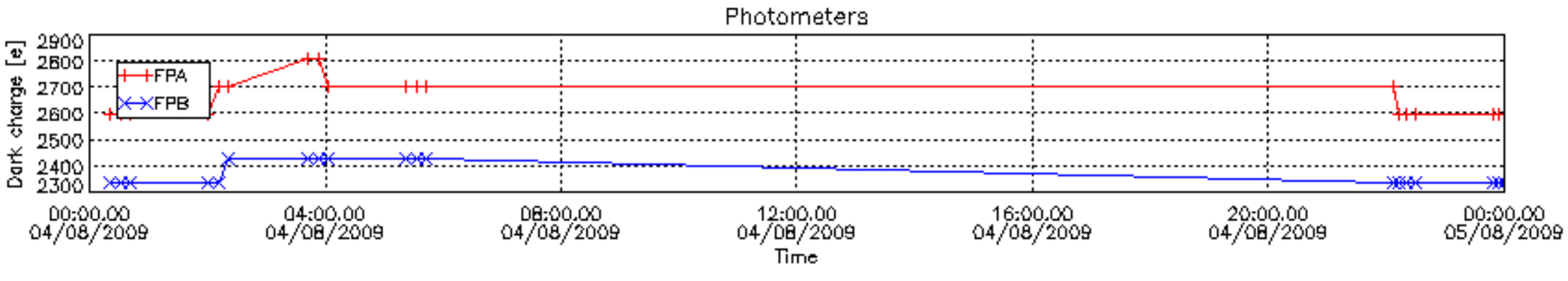

Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
04/08/2009
04:00.00
04/08/2009
08:00.00
04/08/2009
12:00.00
04/08/2009
16:00.00
04/08/2009
20:00.00
04/08/2009
00:00.00
05/08/2009
Time
Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
00:00.00
04/08/2009
04:00.00
04/08/2009
08:00.00
04/08/2009
12:00.00
04/08/2009
16:00.00
04/08/2009
20:00.00
04/08/2009
00:00.00
05/08/2009
Time

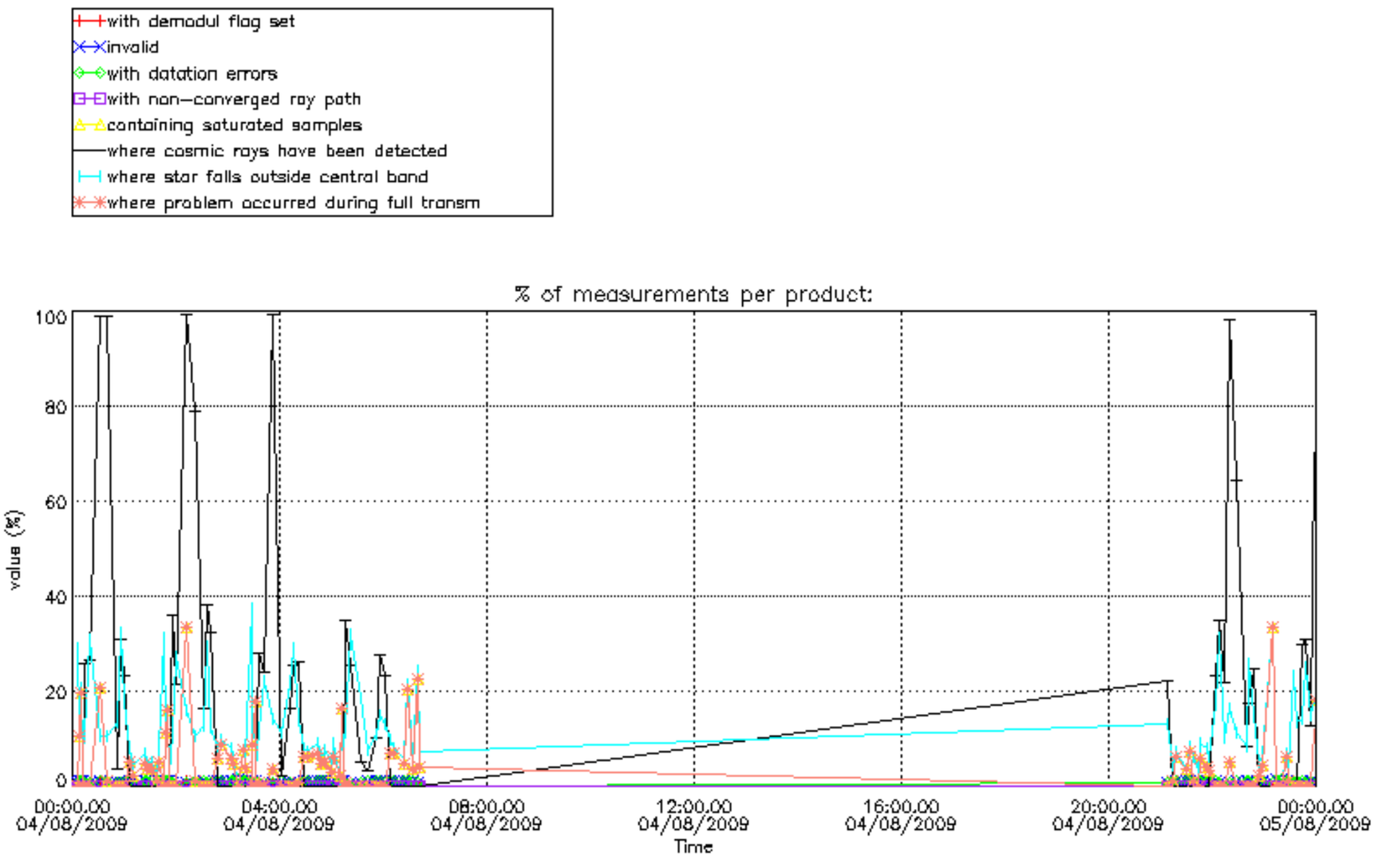

Spectrometer A CCD 1
Dark charge [e]
4400
4200
4000
3800
3600
3400
Upper
Middle
Lower
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
Time

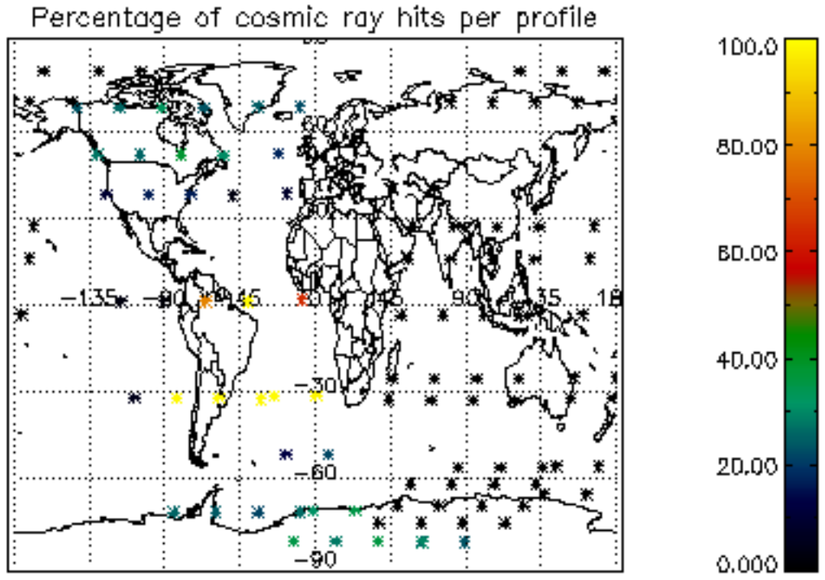

Spectrometer A CCD 2
Dark charge [e]
4400
4300
4200
4100
4000
3900
3800
3700
3600
Upper
Middle
Lower
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
Time


Spectrometer B CCD 1
Dark charge [e]
5000
4900
4800
4700
4600
4500
4400
4300
Upper
Middle
Lower
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
Time


Spectrometer B CCD 2
Dark charge [e]
4700
4600
4500
4400
4300
4200
4100
4000
3900
Upper
Middle
Lower
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
Time


Photometers
Dark charge [e]
2900
2800
2700
2600
2500
2400
2300
FPA
FPB
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
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:
value (%)
100
80
60
40
20
0
00:00.00 04/08/2009
04:00.00 04/08/2009
08:00.00 04/08/2009
12:00.00 04/08/2009
16:00.00 04/08/2009
20:00.00 04/08/2009
00:00.00 05/08/2009
Time


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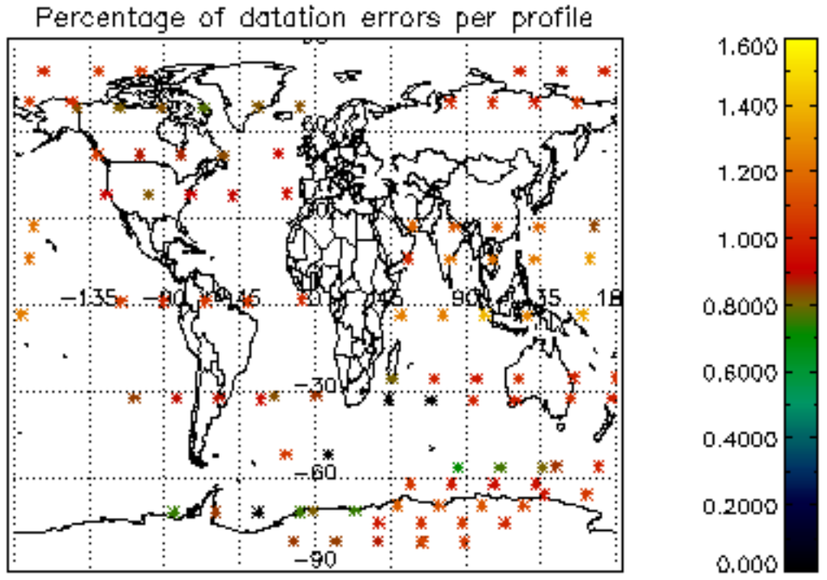
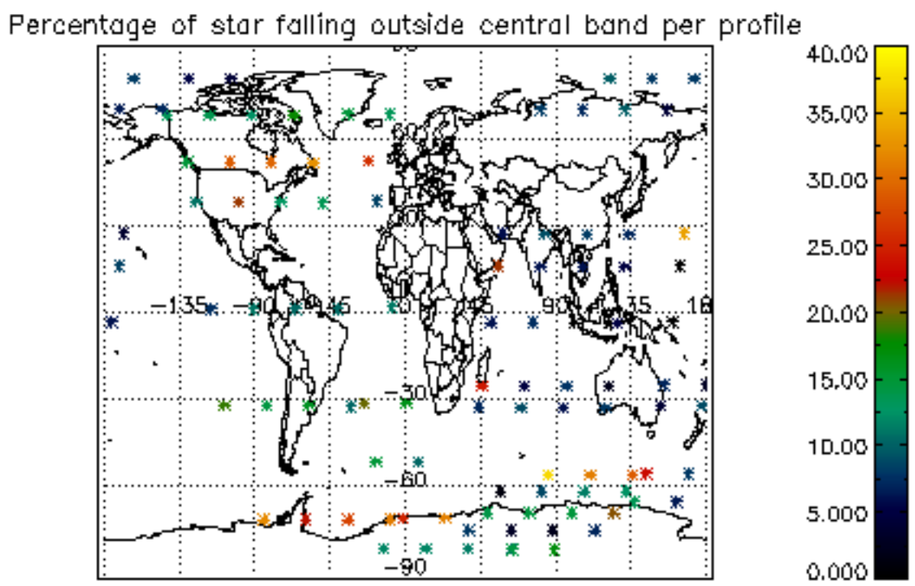
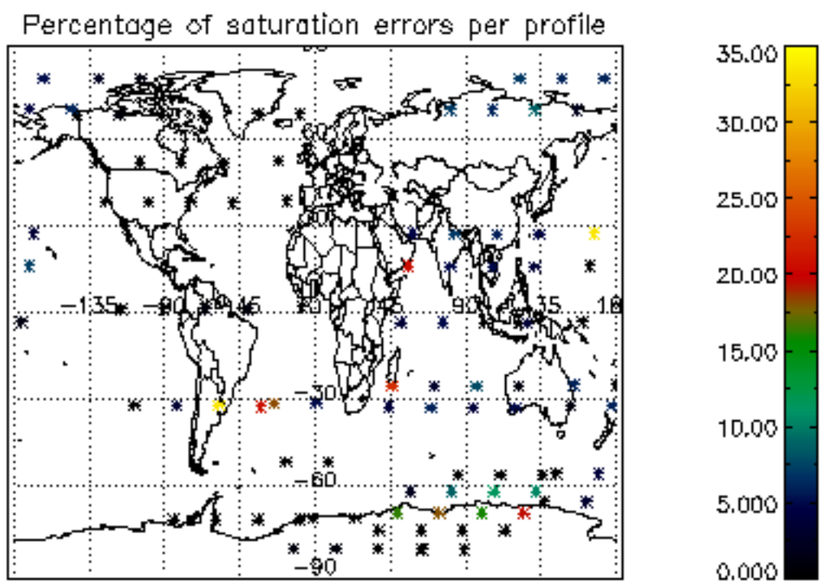
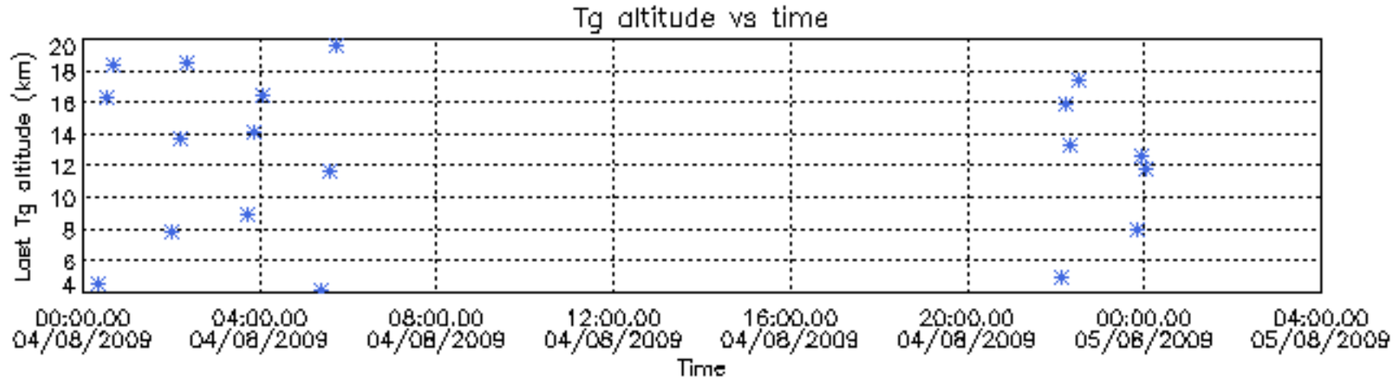
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

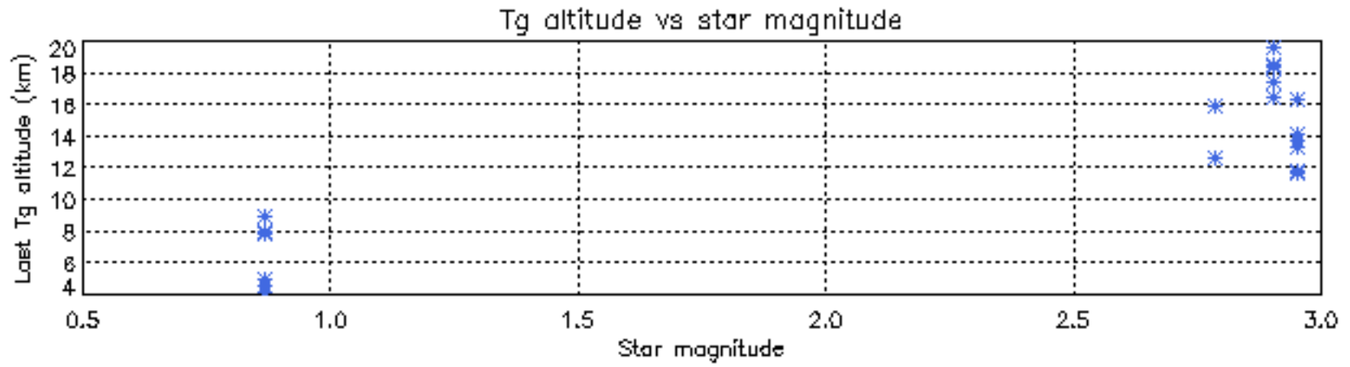

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

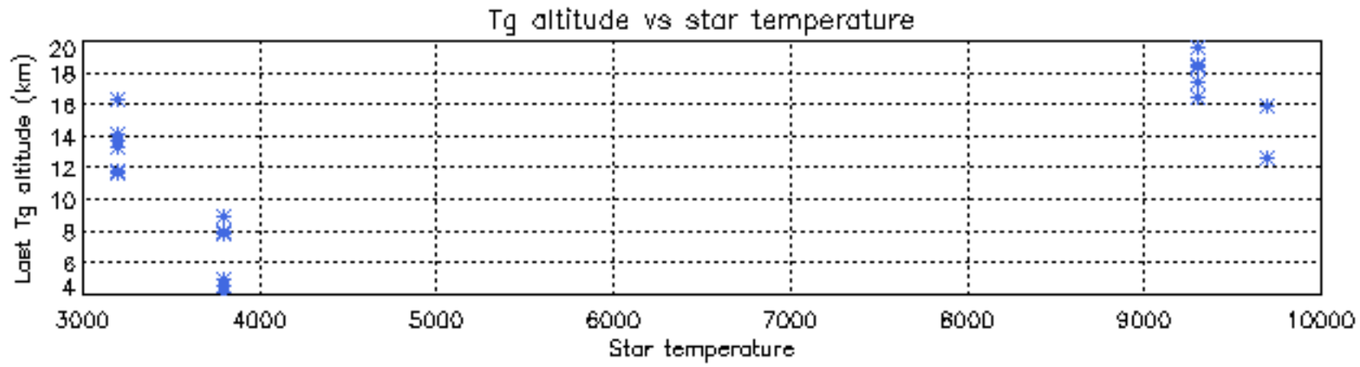

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90

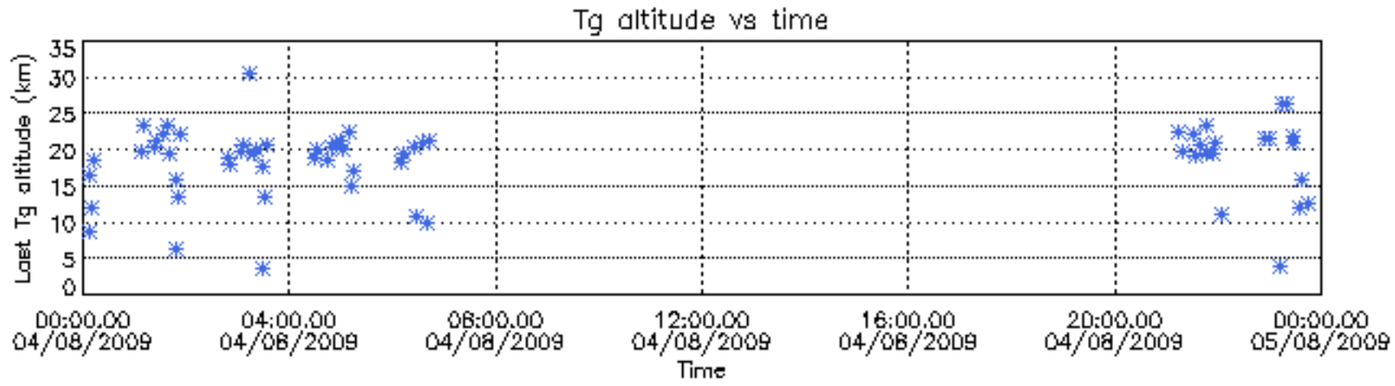
Tangent altitude at which the star is lost

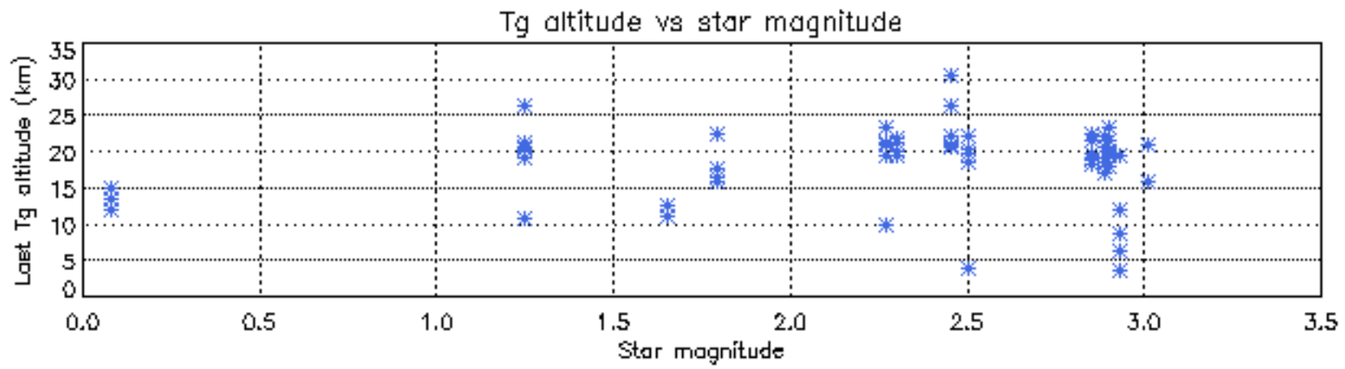


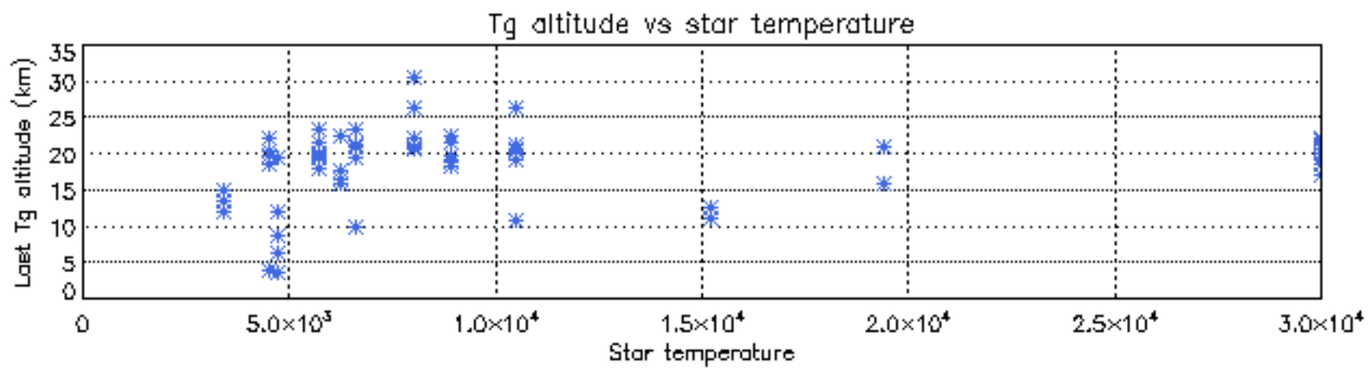


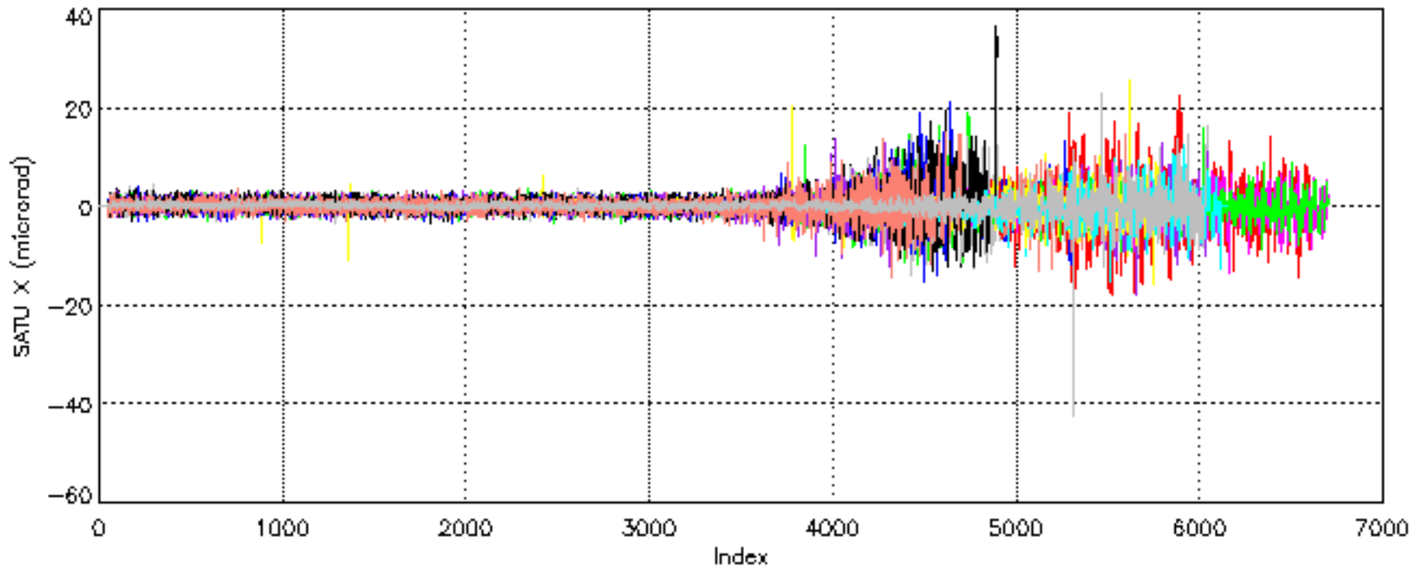


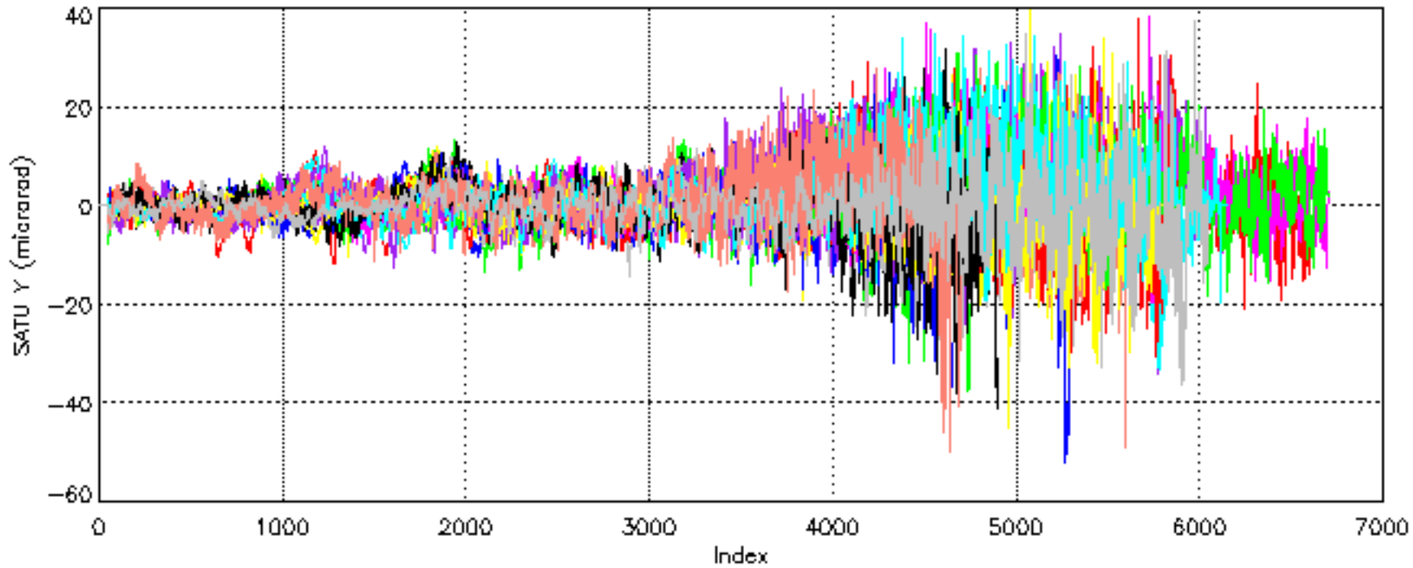
Tangent altitude at which the star is lost

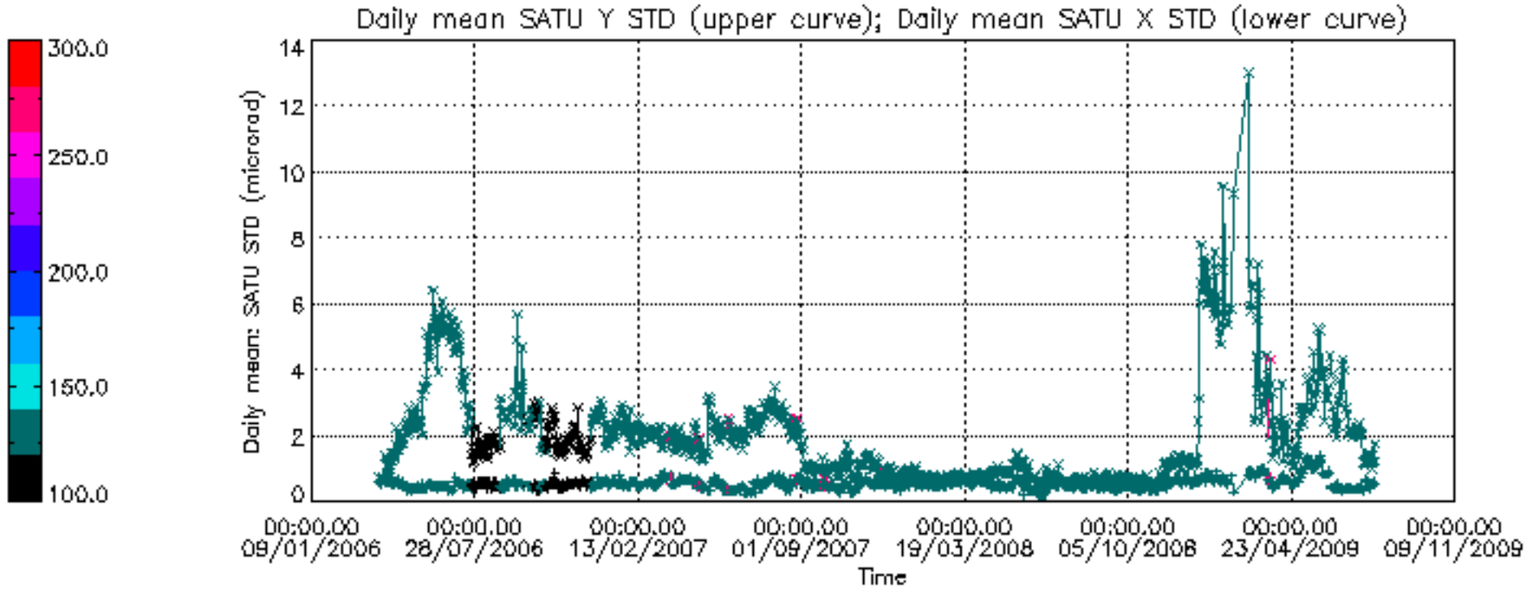







40
20
0
−20
−40
−60
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


40
20
0
−20
−40
−60
SATU 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)
Daily mean: SATU STD (microrad)
0
2
4
6
8
10
12
14
300.0
250.0
200.0
150.0
100.0
00:00.00 09/01/2006
00:00.00 28/07/2006
00:00.00 13/02/2007
00:00.00 01/09/2007
00:00.00 19/03/2008
00:00.00 05/10/2008
00:00.00 23/04/2009
00:00.00 09/11/2009
Time

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   7; 3469.2; 01-AUG-2009 21:39:43; Bright;  51.0;   74; 11Bet Cas  ; 2.27;  6600;occ; 102;   0;38803
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  10; 4075.3; 01-AUG-2009 21:49:49; Bright;  69.0;   35; 33Alp Per  ; 1.79;  6250;occ; 138;   0;38803
  11; 4315.0; 01-AUG-2009 21:53:48; Bright;  46.5;  149; 45Eps Per  ; 2.89; 30000;occ;  93;   0;38803
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  14; 4794.5; 01-AUG-2009 22:01:48; Dark  ;  57.5;   13; 87Alp Tau  ; 0.87;  3800;occ; 115;   0;38803
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   9; 2163.8; 07-AUG-2009 23:10:03; Bright;  52.5;   61;  8Eps Peg  ; 2.10;  3900;occ; 105;   0;38890
  10; 2535.3; 07-AUG-2009 23:16:14; Bright;  39.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  78;   0;38890
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   7; 3406.2; 07-AUG-2009 08:25:22; Bright;  50.0;   74; 11Bet Cas  ; 2.27;  6600;occ; 100;   0;38881
   8; 3532.7; 07-AUG-2009 08:27:28; Bright;  47.5;   76; 27Gam Cas  ; 2.30; 30000;occ;  95;   0;38881
   9; 3942.8; 07-AUG-2009 08:34:18; Bright;  73.0;  160; 23Gam Per  ; 2.93;  4700;occ; 146;   0;38881
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  13; 4530.0; 07-AUG-2009 08:44:06; Dark  ;  47.0;   28; 12Bet Tau  ; 1.65; 15200;occ;  94;   0;38881
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  17; 5544.6; 07-AUG-2009 09:01:00; Dark ; 62.5; 165; 34Gam Eri ; 2.95; 3200;occ; 125;   0;38881
  18; 5801.9; 07-AUG-2009 09:05:18; Dark ; 59.0;   0;   ; 0.00;   0;occ; 118;   0;38881
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   7; 3405.4; 07-AUG-2009 10:05:57; Bright; 48.5;   74; 11Bet Cas ; 2.27; 6600;occ; 97;   0;38882
   8; 3532.0; 07-AUG-2009 10:08:04; Bright; 72.0;   76; 27Gam Cas ; 2.30; 30000;occ; 144;   0;38882
   9; 3942.2; 07-AUG-2009 10:14:54; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106;   0;38882
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  12; 4310.1; 07-AUG-2009 10:21:02; Bright; 55.5; 149; 45Eps Per ; 2.89; 30000;occ; 111;   0;38882
  13; 4530.3; 07-AUG-2009 10:24:42; Dark ; 47.0;   28; 12Bet Tau ; 1.65; 15200;occ; 94;   0;38882
  14; 4829.7; 07-AUG-2009 10:29:41; Dark ; 70.0;   13; 87Alp Tau ; 0.87; 3800;occ; 140;   0;38882
  15; 4944.7; 07-AUG-2009 10:31:36; Dark ; 47.5;   27; 24Gam Ori ; 1.64; 26000;occ; 95;   0;38882
  16; 5219.1; 07-AUG-2009 10:36:11; Dark ; 52.0;   7; 19Bet Ori ; 0.10; 14000;occ; 104;   0;38882
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  19; 6105.8; 07-AUG-2009 10:50:57; Dark ; 48.5; 157;   The1Eri ; 2.91; 9300;occ; 97;   0;38882
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   8; 3531.3; 07-AUG-2009 11:48:39; Bright; 72.0;   76; 27Gam Cas ; 2.30; 30000;occ; 144;   0;38883
   9; 3941.6; 07-AUG-2009 11:55:29; Bright; 73.0; 160; 23Gam Per ; 2.93; 4700;occ; 146;   0;38883
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   4; 2537.7; 07-AUG-2009 13:12:41; Bright; 41.0;   92; 53Eps Cyg ; 2.50; 4500;occ; 82;   0;38884
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   9; 1806.3; 08-AUG-2009 22:32:28; Bright;  43.5;  154; 22Bet Aqr  ; 2.90;  5700;occ;  87;   0;38904
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  11; 2530.5; 08-AUG-2009 22:44:33; Bright;  40.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  80;   0;38904
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   9; 1806.2; 09-AUG-2009 00:13:04; Bright;  43.5;  154; 22Bet Aqr  ; 2.90;  5700;occ;  87;   0;38905
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  11; 2530.6; 09-AUG-2009 00:25:09; Bright;  41.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  82;   0;38905
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9; 2155.4; 09-AUG-2009 01:59:29; Bright; 49.0; 61; 8Eps Peg ; 2.10; 3900;occ; 98; 0;38906
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  13; 4198.8; 10-AUG-2009 17:07:19; Bright;  48.5;    6; 13Alp Aur  ; 0.08;  3400;occ;  97;   0;38929
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  10; 4194.8; 14-AUG-2009 21:43:11; Bright;  50.0;    6; 13Alp Aur  ; 0.08;  3400;occ; 100;   0;38989
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  11; 5313.1; 31-AUG-2009 16:25:30; Dark  ;  65.0;   30; 46Eps Ori  ; 1.69; 30000;occ; 130;   0;39229
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   3; 2503.7; 31-AUG-2009 17:19:17; Bright;  64.0;  164; 44Eta Peg  ; 2.95;  5400;occ; 128;   0;39230
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