GOMOS Daily Report 15-AUG-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.

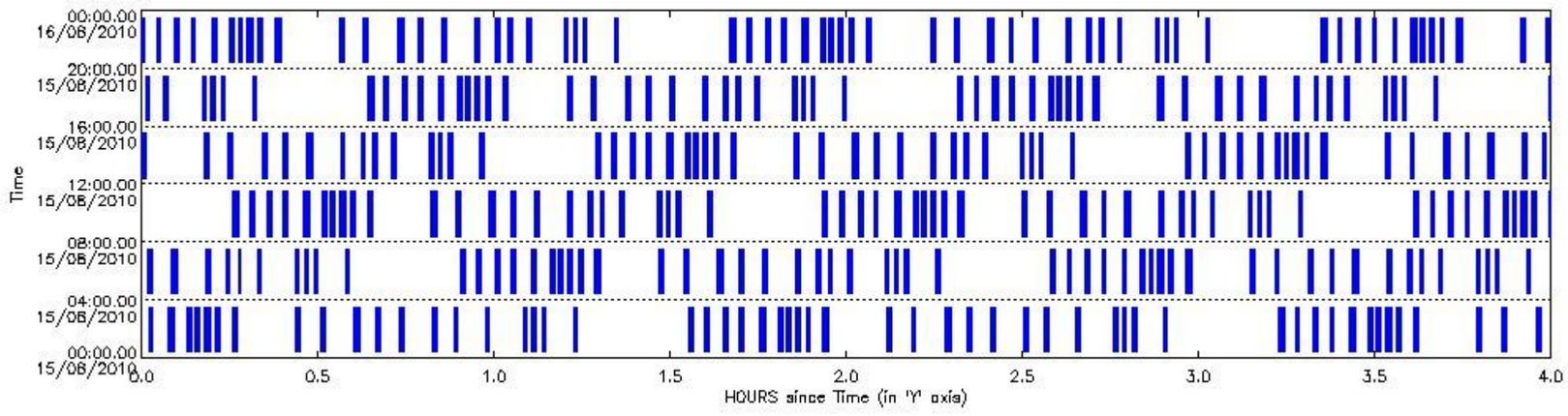
Item	Value
Time of report generation	18AUG2010 04:53:40
Data source version	GOMOS/5.01
Start time of products	15AUG2010 00:01:05
Stop time of products	15AUG2010 23:59:00
Store outputs in DB	Yes
Nb of level 1b prods	127
Nb of prods with errors	2

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

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

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

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



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

No missing products.

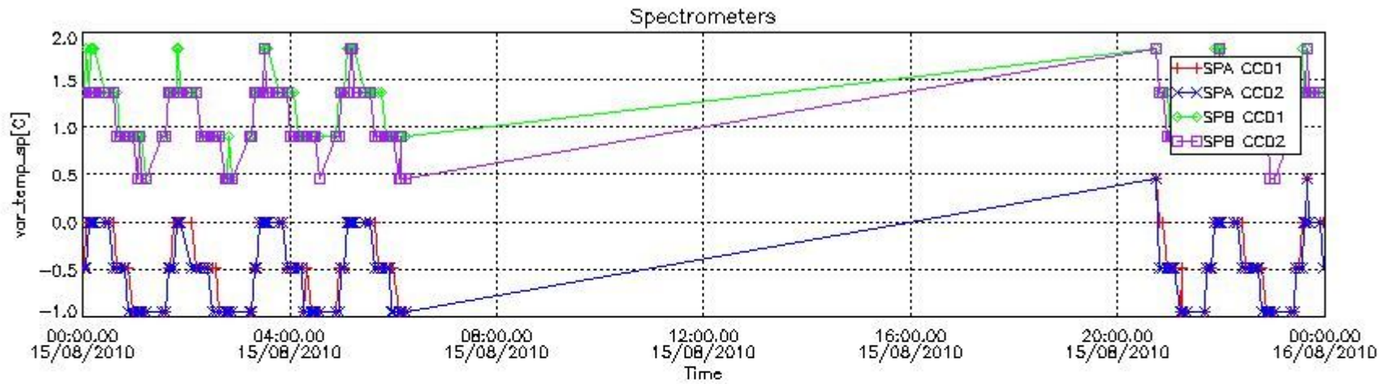
2.4 Summary of processed GOM_TRA_1P products

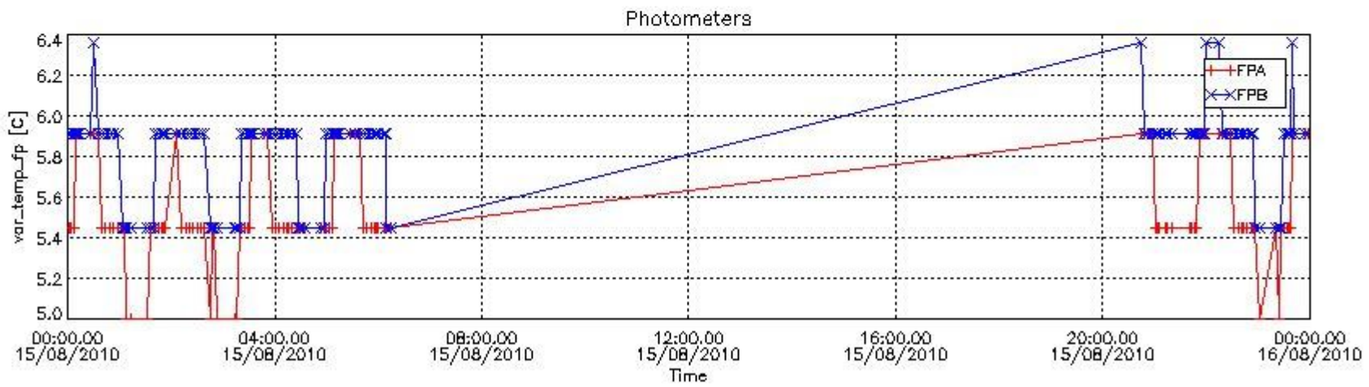
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100815_000105_000000422092_00073_44215_5410.N1	15-AUG-2010 00:01:05	Twi_and_stray	42.000	44	24Gam Gem	1.9280	11000.	84	44215	No
2	GOM_TRA_1PNPDE20100815_000432_000000592092_00073_44215_5411.N1	15-AUG-2010 00:04:32	Dark	59.000	14	58Alp Ori	0.87000	3000.0	118	44215	No
3	GOM_TRA_1PNPDE20100815_000741_000000492092_00073_44215_5412.N1	15-AUG-2010 00:07:41	Dark	49.000	30	46Eps Ori	1.6940	30000.	98	44215	No
4	GOM_TRA_1PNPDE20100815_000905_000000442092_00073_44215_5413.N1	15-AUG-2010 00:09:05	Dark	44.000	125	44Iot Ori	2.7700	30000.	88	44215	No
5	GOM_TRA_1PNPDE20100815_001037_000000622092_00073_44215_5414.N1	15-AUG-2010 00:10:37	Dark	62.000	7	19Bet Ori	0.10000	14000.	124	44215	No
6	GOM_TRA_1PNPDE20100815_001230_000000462092_00073_44215_5417.N1	15-AUG-2010 00:12:30	Dark	45.500	101	11Alp Lep	2.5820	7000.0	91	44215	No
7	GOM_TRA_1PNPDE20100815_002612_000000482092_00074_44216_5418.N1	15-AUG-2010 00:26:12	Dark	47.500	157	The1Eri	2.9060	9300.0	95	44216	No
8	GOM_TRA_1PNPDE20100815_003028_000000472092_00074_44216_5419.N1	15-AUG-2010 00:30:28	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44216	No
9	GOM_TRA_1PNPDE20100815_003609_000000532092_00074_44216_5420.N1	15-AUG-2010 00:36:09	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	44216	No
10	GOM_TRA_1PNPDE20100815_003952_000000442092_00074_44216_5421.N1	15-AUG-2010 00:39:52	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	44216	No
11	GOM_TRA_1PNPDE20100815_004348_000000562092_00074_44216_5422.N1	15-AUG-2010 00:43:48	Twi_and_stray	55.500	18	24Alp PsA	1.1660	9700.0	111	44216	No
12	GOM_TRA_1PNPDE20100815_004934_000000462092_00074_44216_5423.N1	15-AUG-2010 00:49:34	Bright	45.500	142	49Del Cap	2.8500	8900.0	91	44216	No

13	GOM_TRA_1PNPDE20100815_005305_000000432092_00074_44216_5424.N1	15-AUG-2010 00:53:05	Bright	42.500	154	22Bet Aqr	2.8990	5700.0	85	44216	No
14	GOM_TRA_1PNPDE20100815_005825_000000472092_00074_44216_5425.N1	15-AUG-2010 00:58:25	Bright	46.500	61	8Eps Peg	2.1000	3900.0	93	44216	No
15	GOM_TRA_1PNPDE20100815_010452_000000382092_00074_44216_5426.N1	15-AUG-2010 01:04:52	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	44216	No
16	GOM_TRA_1PNPDE20100815_010625_000000362092_00074_44216_5427.N1	15-AUG-2010 01:06:25	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	44216	No
17	GOM_TRA_1PNPDE20100815_010804_000000382092_00074_44216_5428.N1	15-AUG-2010 01:08:04	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	44216	No
18	GOM_TRA_1PNPDE20100815_011326_000000412092_00074_44216_5429.N1	15-AUG-2010 01:13:26	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	44216	No
19	GOM_TRA_1PNPDE20100815_013300_000000502092_00074_44216_5430.N1	15-AUG-2010 01:33:00	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	44216	No
20	GOM_TRA_1PNPDE20100815_013550_000000382092_00074_44216_5431.N1	15-AUG-2010 01:35:50	Bright	38.000	107	37The Aur	2.6490	11000.	76	44216	No
21	GOM_TRA_1PNPDE20100815_013854_000000512092_00074_44216_5432.N1	15-AUG-2010 01:38:54	Twi_and_stray	50.500	28	12Bet Tau	1.6500	15200.	101	44216	No
22	GOM_TRA_1PNPDE20100815_014142_000000432092_00074_44216_5433.N1	15-AUG-2010 01:41:42	Twi_and_stray	42.500	44	24Gam Gem	1.9280	11000.	85	44216	No
23	GOM_TRA_1PNPDE20100815_014509_000000592092_00074_44216_5434.N1	15-AUG-2010 01:45:09	Dark	58.500	14	58Alp Ori	0.87000	3000.0	117	44216	No
24	GOM_TRA_1PNPDE20100815_014817_000000502092_00074_44216_5436.N1	15-AUG-2010 01:48:17	Dark	50.000	30	46Eps Ori	1.6940	30000.	100	44216	No
25	GOM_TRA_1PNPDE20100815_014942_000000462092_00074_44216_5437.N1	15-AUG-2010 01:49:42	Dark	46.000	125	44Iot Ori	2.7700	30000.	92	44216	No
26	GOM_TRA_1PNPDE20100815_015113_000000552092_00074_44216_5438.N1	15-AUG-2010 01:51:13	Dark	54.500	7	19Bet Ori	0.10000	14000.	109	44216	No
27	GOM_TRA_1PNPDE20100815_015307_000000452092_00074_44216_5439.N1	15-AUG-2010 01:53:07	Dark	44.500	101	11Alp Lep	2.5820	7000.0	89	44216	No
28	GOM_TRA_1PNPDE20100815_020649_000000502092_00075_44217_5440.N1	15-AUG-2010 02:06:49	Dark	49.500	157	The1Eri	2.9060	9300.0	99	44217	No
29	GOM_TRA_1PNPDE20100815_021104_000000442092_00075_44217_5441.N1	15-AUG-2010 02:11:04	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44217	No
30	GOM_TRA_1PNPDE20100815_021646_000000592092_00075_44217_5442.N1	15-AUG-2010 02:16:46	Straylight	58.500	84	Alp Phe	2.3970	4500.0	117	44217	No
31	GOM_TRA_1PNPDE20100815_022029_000000452092_00075_44217_5443.N1	15-AUG-2010 02:20:29	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	44217	No
32	GOM_TRA_1PNPDE20100815_022425_000000592092_00075_44217_5444.N1	15-AUG-2010 02:24:25	Twi_and_stray	59.000	18	24Alp PsA	1.1660	9700.0	118	44217	No
33	GOM_TRA_1PNPDE20100815_023010_000000452092_00075_44217_5445.N1	15-AUG-2010 02:30:10	Bright	45.000	142	49Del Cap	2.8500	8900.0	90	44217	No
34	GOM_TRA_1PNPDE20100815_023341_000000432092_00075_44217_5446.N1	15-AUG-2010 02:33:41	Bright	43.000	154	22Bet Aqr	2.8990	5700.0	86	44217	No
35	GOM_TRA_1PNPDE20100815_023901_000000482092_00075_44217_5447.N1	15-AUG-2010 02:39:01	Bright	47.500	61	8Eps Peg	2.1000	3900.0	95	44217	No
36	GOM_TRA_1PNPDE20100815_024527_000000412092_00075_44217_5448.N1	15-AUG-2010 02:45:27	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	44217	No
37	GOM_TRA_1PNPDE20100815_024701_000000392092_00075_44217_5449.N1	15-AUG-2010 02:47:01	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	44217	No
38	GOM_TRA_1PNPDE20100815_024840_000000412092_00075_44217_5450.N1	15-AUG-2010 02:48:40	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	44217	No
39	GOM_TRA_1PNPDE20100815_025402_000000372092_00075_44217_5451.N1	15-AUG-2010 02:54:02	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	44217	No
40	GOM_TRA_1PNPDE20100815_031336_000000612092_00075_44217_5454.N1	15-AUG-2010 03:13:36	Bright	61.000	6	13Alp Aur	0.080000	3400.0	122	44217	No
41	GOM_TRA_1PNPDE20100815_031627_000000392092_00075_44217_5455.N1	15-AUG-2010 03:16:27	Bright	38.500	107	37The Aur	2.6490	11000.	77	44217	No
42	GOM_TRA_1PNPDE20100815_031930_000000512092_00075_44217_5456.N1	15-AUG-2010 03:19:30	Twi_and_stray	51.000	28	12Bet Tau	1.6500	15200.	102	44217	No
43	GOM_TRA_1PNPDE20100815_032218_000000422092_00075_44217_5457.N1	15-AUG-2010 03:22:18	Twi_and_stray	41.500	44	24Gam Gem	1.9280	11000.	83	44217	No
44	GOM_TRA_1PNPDE20100815_032545_000000542092_00075_44217_5458.N1	15-AUG-2010 03:25:45	Dark	53.500	14	58Alp Ori	0.87000	3000.0	107	44217	No
45	GOM_TRA_1PNPDE20100815_032854_000000482092_00075_44217_5459.N1	15-AUG-2010 03:28:54	Dark	47.500	30	46Eps Ori	1.6940	30000.	95	44217	No
46	GOM_TRA_1PNPDE20100815_033018_000000472092_00075_44217_5460.N1	15-AUG-2010 03:30:18	Dark	46.500	125	44Iot Ori	2.7700	30000.	93	44217	No
47	GOM_TRA_1PNPDE20100815_033149_000000562092_00075_44217_5461.N1	15-AUG-2010 03:31:49	Dark	56.000	7	19Bet Ori	0.10000	14000.	112	44217	No
48	GOM_TRA_1PNPDE20100815_033344_000000462092_00075_44217_5462.N1	15-AUG-2010 03:33:44	Dark	46.000	101	11Alp Lep	2.5820	7000.0	92	44217	No
49	GOM_TRA_1PNPDE20100815_034726_000000492092_00076_44218_5463.N1	15-AUG-2010 03:47:26	Dark	49.000	157	The1Eri	2.9060	9300.0	98	44218	No
50	GOM_TRA_1PNPDE20100815_035141_000000432092_00076_44218_5464.N1	15-AUG-2010 03:51:41	Dark	43.000	9	Alp Eri	0.45300	24000.	86	44218	No
51	GOM_TRA_1PNPDE20100815_035722_000000552092_00076_44218_5465.N1	15-AUG-2010 03:57:22	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	44218	No
52	GOM_TRA_1PNPDE20100815_040105_000000432092_00076_44218_5466.N1	15-AUG-2010 04:01:05	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	44218	No
53	GOM_TRA_1PNPDE20100815_040501_000000562092_00076_44218_5467.N1	15-AUG-2010 04:05:01	Twi_and_stray	56.000	18	24Alp PsA	1.1660	9700.0	112	44218	No
54	GOM_TRA_1PNPDE20100815_041046_000000472092_00076_44218_5468.N1	15-AUG-2010 04:10:46	Bright	47.000	142	49Del Cap	2.8500	8900.0	94	44218	No
55	GOM_TRA_1PNPDE20100815_041417_000000412092_00076_44218_5469.N1	15-AUG-2010 04:14:17	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	44218	No
56	GOM_TRA_1PNPDE20100815_041624_000000282092_00076_44218_5470.N1	15-AUG-2010 04:16:24	Twi_and_stray	28.000	162	34Alp Aqr	2.9440	5350.0	56	44218	No
57	GOM_TRA_1PNPDE20100815_041937_000000462092_00076_44218_5471.N1	15-AUG-2010 04:19:37	Bright	46.000	61	8Eps Peg	2.1000	3900.0	92	44218	No
58	GOM_TRA_1PNPDE20100815_042603_000000422092_00076_44218_5472.N1	15-AUG-2010 04:26:03	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	44218	No
59	GOM_TRA_1PNPDE20100815_042737_000000392092_00076_44218_5473.N1	15-AUG-2010 04:27:37	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	44218	No
60	GOM_TRA_1PNPDE20100815_042915_000000402092_00076_44218_5474.N1	15-AUG-2010 04:29:15	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	44218	No
61	GOM_TRA_1PNPDE20100815_043438_000000382092_00076_44218_5475.N1	15-AUG-2010 04:34:38	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	44218	No
62	GOM_TRA_1PNPDE20100815_045412_000000612092_00076_44218_5487.N1	15-AUG-2010 04:54:12	Bright	61.000	6	13Alp Aur	0.080000	3400.0	122	44218	No
63	GOM_TRA_1PNPDE20100815_045703_000000442092_00076_44218_5488.N1	15-AUG-2010 04:57:03	Bright	44.000	107	37The Aur	2.6490	11000.	88	44218	No
64	GOM_TRA_1PNPDE20100815_050007_000000532092_00076_44218_5489.N1	15-AUG-2010 05:00:07	Twi_and_stray	52.500	28	12Bet Tau	1.6500	15200.	105	44218	No
65	GOM_TRA_1PNPDE20100815_050254_000000412092_00076_44218_5490.N1	15-AUG-2010 05:02:54	Twi_and_stray	40.500	44	24Gam Gem	1.9280	11000.	81	44218	No
66	GOM_TRA_1PNPDE20100815_050622_000000522092_00076_44218_5491.N1	15-AUG-2010 05:06:22	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	44218	No
67	GOM_TRA_1PNPDE20100815_050930_000000502092_00076_44218_5492.N1	15-AUG-2010 05:09:30	Dark	49.500	30	46Eps Ori	1.6940	30000.	99	44218	No
68	GOM_TRA_1PNPDE20100815_051055_000000442092_00076_44218_5493.N1	15-AUG-2010 05:10:55	Dark	43.500	125	44Iot Ori	2.7700	30000.	87	44218	No
69	GOM_TRA_1PNPDE20100815_051226_000000532092_00076_44218_5494.N1	15-AUG-2010 05:12:26	Dark	53.000	7	19Bet Ori	0.10000	14000.	106	44218	No
70	GOM_TRA_1PNPDE20100815_051421_000000432092_00076_44218_5495.N1	15-AUG-2010 05:14:21	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	44218	No
71	GOM_TRA_1PNPDE20100815_052803_000000522092_00077_44219_5496.N1	15-AUG-2010 05:28:03	Dark	51.500	157	The1Eri	2.9060	9300.0	103	44219	No

72	GOM_TRA_1PNPDE20100815_053218_000000462092_00077_44219_5497.N1	15-AUG-2010 05:32:18	Dark	45.500	9	Alp Eri	0.45300	24000.	91	44219	No
73	GOM_TRA_1PNPDE20100815_053759_000000542092_00077_44219_5498.N1	15-AUG-2010 05:37:59	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	44219	No
74	GOM_TRA_1PNPDE20100815_054142_000000422092_00077_44219_5499.N1	15-AUG-2010 05:41:42	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	44219	No
75	GOM_TRA_1PNPDE20100815_054537_000000562092_00077_44219_5500.N1	15-AUG-2010 05:45:37	Twi_and_stray	56.000	18	24Alp PsA	1.1660	9700.0	112	44219	No
76	GOM_TRA_1PNPDE20100815_055122_000000462092_00077_44219_5501.N1	15-AUG-2010 05:51:22	Bright	46.000	142	49Del Cap	2.8500	8900.0	92	44219	No
77	GOM_TRA_1PNPDE20100815_055453_000000452092_00077_44219_5502.N1	15-AUG-2010 05:54:53	Bright	44.500	154	22Bet Aqr	2.8990	5700.0	89	44219	No
78	GOM_TRA_1PNPDE20100815_055659_000000282092_00077_44219_5503.N1	15-AUG-2010 05:56:59	Twi_and_stray	28.000	162	34Alp Aqr	2.9440	5350.0	56	44219	No
79	GOM_TRA_1PNPDE20100815_060012_000000452092_00077_44219_5504.N1	15-AUG-2010 06:00:12	Bright	44.500	61	8Eps Peg	2.1000	3900.0	89	44219	No
80	GOM_TRA_1PNPDE20100815_060639_000000372092_00077_44219_5505.N1	15-AUG-2010 06:06:39	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	44219	No
81	GOM_TRA_1PNPDE20100815_060813_000000372092_00077_44219_5506.N1	15-AUG-2010 06:08:13	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	44219	No
82	GOM_TRA_1PNPDE20100815_060951_000000412092_00077_44219_5507.N1	15-AUG-2010 06:09:51	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	44219	No
83	GOM_TRA_1PNPDE20100815_061513_000000382092_00077_44219_5508.N1	15-AUG-2010 06:15:13	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	44219	No
84	GOM_TRA_1PNPDE20100815_204330_000000622092_00086_44228_5620.N1	15-AUG-2010 20:43:30	Straylight	61.500	84	Alp Phe	2.3970	4500.0	123	44228	Yes
85	GOM_TRA_1PNPDE20100815_204708_000000452092_00086_44228_5621.N1	15-AUG-2010 20:47:08	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	44228	No
86	GOM_TRA_1PNPDE20100815_205105_000000542092_00086_44228_5622.N1	15-AUG-2010 20:51:05	Twi_and_stray	53.500	18	24Alp PsA	1.1660	9700.0	107	44228	No
87	GOM_TRA_1PNPDE20100815_205647_000000442092_00086_44228_5623.N1	15-AUG-2010 20:56:47	Bright	44.000	142	49Del Cap	2.8500	8900.0	88	44228	No
88	GOM_TRA_1PNPDE20100815_210016_000000422092_00086_44228_5624.N1	15-AUG-2010 21:00:16	Bright	42.000	154	22Bet Aqr	2.8990	5700.0	84	44228	No
89	GOM_TRA_1PNPDE20100815_210221_000000492092_00086_44228_5625.N1	15-AUG-2010 21:02:21	Bright	49.000	162	34Alp Aqr	2.9440	5350.0	98	44228	No
90	GOM_TRA_1PNPDE20100815_210532_000000492092_00086_44228_5626.N1	15-AUG-2010 21:05:32	Bright	48.500	61	8Eps Peg	2.1000	3900.0	97	44228	No
91	GOM_TRA_1PNPDE20100815_211200_000000372092_00086_44228_5627.N1	15-AUG-2010 21:12:00	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	44228	No
92	GOM_TRA_1PNPDE20100815_211335_000000352092_00086_44228_5628.N1	15-AUG-2010 21:13:35	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	44228	No
93	GOM_TRA_1PNPDE20100815_211513_000000372092_00086_44228_5629.N1	15-AUG-2010 21:15:13	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	44228	No
94	GOM_TRA_1PNPDE20100815_212034_000000382092_00086_44228_5630.N1	15-AUG-2010 21:20:34	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	44228	No
95	GOM_TRA_1PNPDE20100815_214010_000000592092_00086_44228_5631.N1	15-AUG-2010 21:40:10	Bright	59.000	6	13Alp Aur	0.080000	3400.0	118	44228	No
96	GOM_TRA_1PNPDE20100815_214303_000000402092_00086_44228_5632.N1	15-AUG-2010 21:43:03	Bright	39.500	107	37The Aur	2.6490	11000.	79	44228	No
97	GOM_TRA_1PNPDE20100815_214608_000000522092_00086_44228_5633.N1	15-AUG-2010 21:46:08	Twi_and_stray	52.000	28	12Bet Tau	1.6500	15200.	104	44228	No
98	GOM_TRA_1PNPDE20100815_214856_000000432092_00086_44228_5634.N1	15-AUG-2010 21:48:56	Twi_and_stray	42.500	44	24Gam Gem	1.9280	11000.	85	44228	No
99	GOM_TRA_1PNPDE20100815_215225_000000592092_00086_44228_5635.N1	15-AUG-2010 21:52:25	Dark	59.000	14	58Alp Ori	0.87000	3000.0	118	44228	No
100	GOM_TRA_1PNPDE20100815_215535_000000482092_00086_44228_5636.N1	15-AUG-2010 21:55:35	Dark	47.500	30	46Eps Ori	1.6940	30000.	95	44228	No
101	GOM_TRA_1PNPDE20100815_215700_000000472092_00086_44228_5644.N1	15-AUG-2010 21:57:00	Dark	47.000	125	44Iot Ori	2.7700	30000.	94	44228	No
102	GOM_TRA_1PNPDE20100815_215833_000000552092_00086_44228_5645.N1	15-AUG-2010 21:58:33	Dark	55.000	7	19Bet Ori	0.10000	14000.	110	44228	No
103	GOM_TRA_1PNPDE20100815_220026_000000472092_00086_44228_5646.N1	15-AUG-2010 22:00:26	Dark	46.500	101	11Alp Lep	2.5820	7000.0	93	44228	No
104	GOM_TRA_1PNPDE20100815_221414_000000512092_00087_44229_5647.N1	15-AUG-2010 22:14:14	Dark	50.500	157	The1Eri	2.9060	9300.0	101	44229	No
105	GOM_TRA_1PNPDE20100815_221824_000000472092_00087_44229_5648.N1	15-AUG-2010 22:18:24	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44229	No
106	GOM_TRA_1PNPDE20100815_222407_000000522092_00087_44229_5649.N1	15-AUG-2010 22:24:07	Straylight	51.500	84	Alp Phe	2.3970	4500.0	103	44229	No
107	GOM_TRA_1PNPDE20100815_222745_000000422092_00087_44229_5650.N1	15-AUG-2010 22:27:45	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	44229	No
108	GOM_TRA_1PNPDE20100815_223141_000000552092_00087_44229_5651.N1	15-AUG-2010 22:31:41	Twi_and_stray	55.000	18	24Alp PsA	1.1660	9700.0	110	44229	No
109	GOM_TRA_1PNPDE20100815_223723_000000452092_00087_44229_5652.N1	15-AUG-2010 22:37:23	Bright	44.500	142	49Del Cap	2.8500	8900.0	89	44229	No
110	GOM_TRA_1PNPDE20100815_224052_000000432092_00087_44229_5653.N1	15-AUG-2010 22:40:52	Bright	42.500	154	22Bet Aqr	2.8990	5700.0	85	44229	No
111	GOM_TRA_1PNPDE20100815_224256_000000502092_00087_44229_5654.N1	15-AUG-2010 22:42:56	Bright	50.000	162	34Alp Aqr	2.9440	5350.0	100	44229	No
112	GOM_TRA_1PNPDE20100815_224608_000000452092_00087_44229_5655.N1	15-AUG-2010 22:46:08	Bright	45.000	61	8Eps Peg	2.1000	3900.0	90	44229	No
113	GOM_TRA_1PNPDE20100815_225236_000000412092_00087_44229_5656.N1	15-AUG-2010 22:52:36	Bright	40.500	92	53Eps Cyg	2.5000	4500.0	81	44229	No
114	GOM_TRA_1PNPDE20100815_225411_000000392092_00087_44229_5657.N1	15-AUG-2010 22:54:11	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	44229	No
115	GOM_TRA_1PNPDE20100815_225548_000000392092_00087_44229_5658.N1	15-AUG-2010 22:55:48	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	44229	No
116	GOM_TRA_1PNPDE20100815_230110_000000402092_00087_44229_5659.N1	15-AUG-2010 23:01:10	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	44229	No
117	GOM_TRA_1PNPDE20100815_232046_000000622092_00087_44229_5660.N1	15-AUG-2010 23:20:46	Bright	62.000	6	13Alp Aur	0.080000	3400.0	124	44229	No
118	GOM_TRA_1PNPDE20100815_232339_000000402092_00087_44229_5661.N1	15-AUG-2010 23:23:39	Bright	40.000	107	37The Aur	2.6490	11000.	80	44229	No
119	GOM_TRA_1PNPDE20100815_232644_000000512092_00087_44229_5662.N1	15-AUG-2010 23:26:44	Twi_and_stray	50.500	28	12Bet Tau	1.6500	15200.	101	44229	No
120	GOM_TRA_1PNPDE20100815_232932_000000462092_00087_44229_5663.N1	15-AUG-2010 23:29:32	Twi_and_stray	45.500	44	24Gam Gem	1.9280	11000.	91	44229	No
121	GOM_TRA_1PNPDE20100815_233302_000000432092_00087_44229_5664.N1	15-AUG-2010 23:33:02	Dark	43.000	14	58Alp Ori	0.87000	3000.0	86	44229	No
122	GOM_TRA_1PNPDE20100815_233612_000000502092_00087_44229_5665.N1	15-AUG-2010 23:36:12	Dark	49.500	30	46Eps Ori	1.6940	30000.	99	44229	No
123	GOM_TRA_1PNPDE20100815_233737_000000462092_00087_44229_5666.N1	15-AUG-2010 23:37:37	Dark	45.500	125	44Iot Ori	2.7700	30000.	91	44229	No
124	GOM_TRA_1PNPDE20100815_233910_000000552092_00087_44229_5664.N1	15-AUG-2010 23:39:10	Dark	55.000	7	19Bet Ori	0.10000	14000.	110	44229	Yes
125	GOM_TRA_1PNPDE20100815_234103_000000432092_00087_44229_5665.N1	15-AUG-2010 23:41:03	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	44229	No
126	GOM_TRA_1PNPDE20100815_235451_000000502092_00088_44230_5666.N1	15-AUG-2010 23:54:51	Dark	49.500	157	The1Eri	2.9060	9300.0	99	44230	No
127	GOM_TRA_1PNPDE20100815_235900_000000472092_00088_44230_5667.N1	15-AUG-2010 23:59:00	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44230	No

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





4. Overview of dark signal processing per product

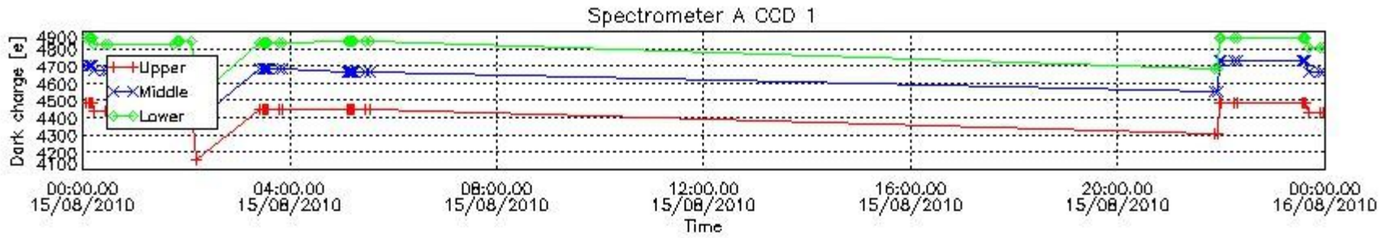
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

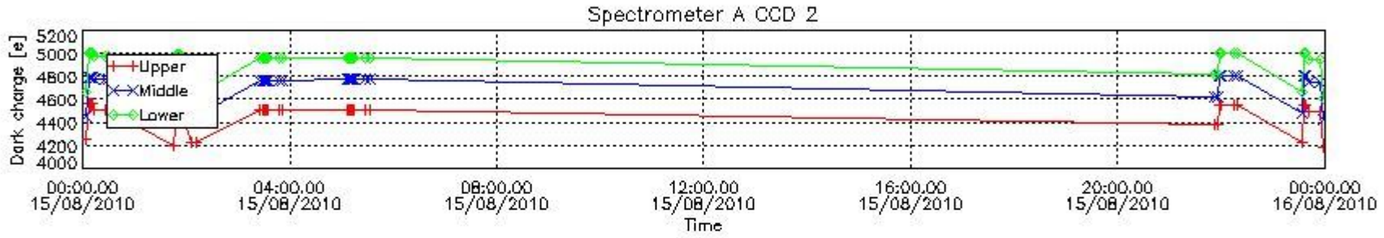
4.1 These products did not use the DSA observation for DC computation:

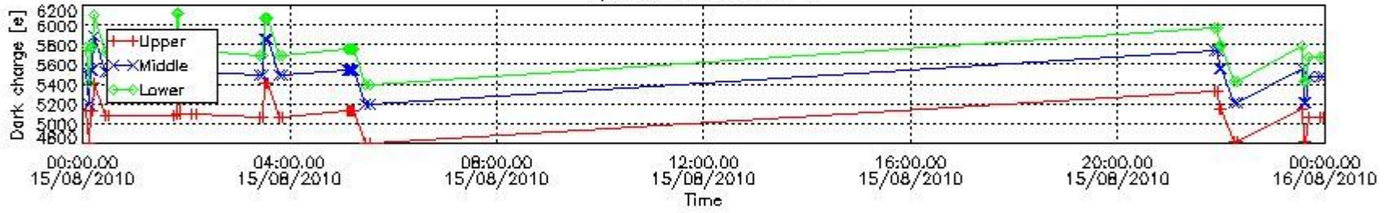
Product name	DC information
GOM_TRA_1PNPDE20100815_204330_000000622092_00086_44228_5620.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100815_204708_000000452092_00086_44228_5621.N1	DC map used
GOM_TRA_1PNPDE20100815_205105_000000542092_00086_44228_5622.N1	DC map used
GOM_TRA_1PNPDE20100815_205647_000000442092_00086_44228_5623.N1	DC map used
GOM_TRA_1PNPDE20100815_210016_000000422092_00086_44228_5624.N1	DC map used
GOM_TRA_1PNPDE20100815_210221_000000492092_00086_44228_5625.N1	DC map used
GOM_TRA_1PNPDE20100815_210532_000000492092_00086_44228_5626.N1	DC map used
GOM_TRA_1PNPDE20100815_211200_000000372092_00086_44228_5627.N1	DC map used
GOM_TRA_1PNPDE20100815_211335_000000352092_00086_44228_5628.N1	DC map used
GOM_TRA_1PNPDE20100815_211513_000000372092_00086_44228_5629.N1	DC map used
GOM_TRA_1PNPDE20100815_212034_000000382092_00086_44228_5630.N1	DC map used
GOM_TRA_1PNPDE20100815_214010_000000592092_00086_44228_5631.N1	DC map used

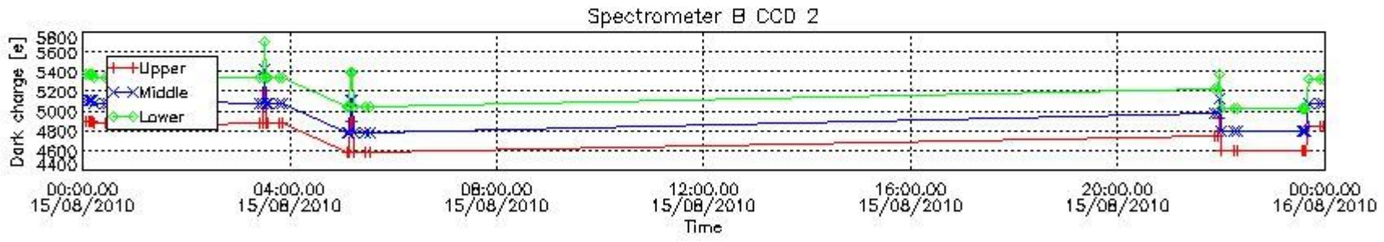
GOM_TRA_1PNPDE20100815_214303_000000402092_00086_44228_5632.N1	DC map used
GOM_TRA_1PNPDE20100815_214608_000000522092_00086_44228_5633.N1	DC map used
GOM_TRA_1PNPDE20100815_214856_000000432092_00086_44228_5634.N1	DC map used
GOM_TRA_1PNPDE20100815_215225_000000592092_00086_44228_5635.N1	DC map used
GOM_TRA_1PNPDE20100815_215535_000000482092_00086_44228_5636.N1	DC map used

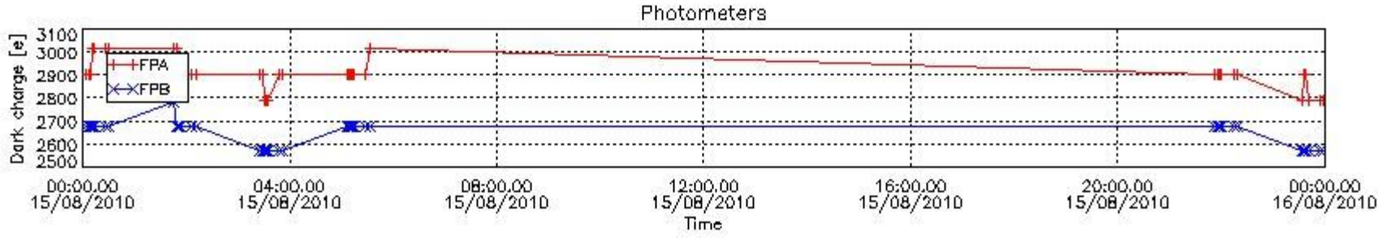
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











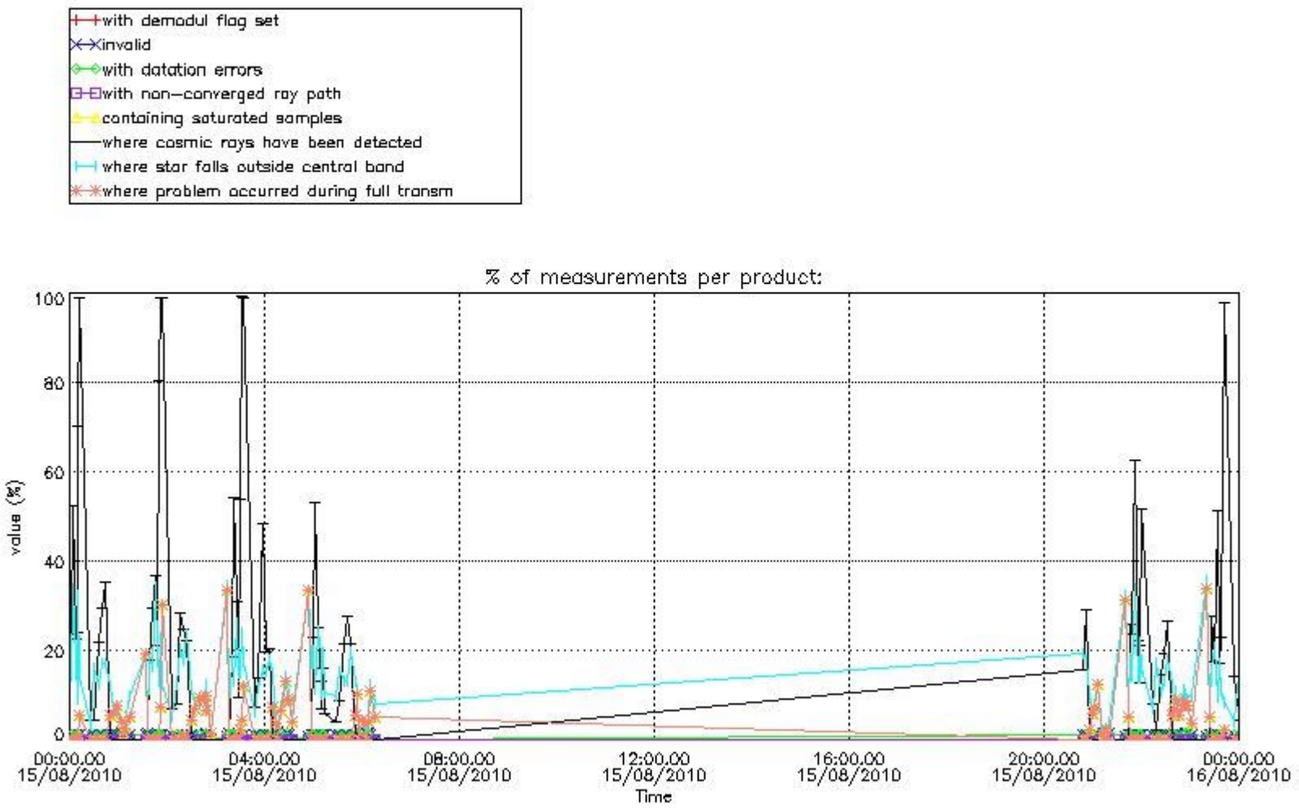
5. Demodulation flag and quality information monitoring

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:

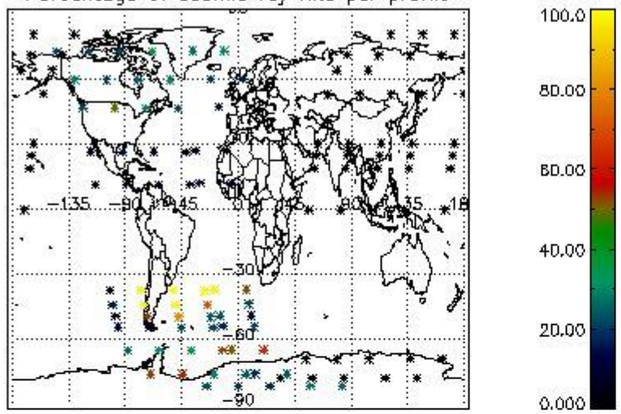
At least one measurement with demodulation flag set:	48.8000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

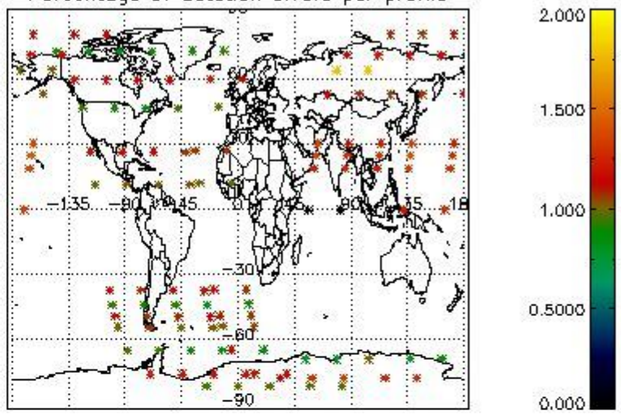


5.3 Plot quality information per product (world map)

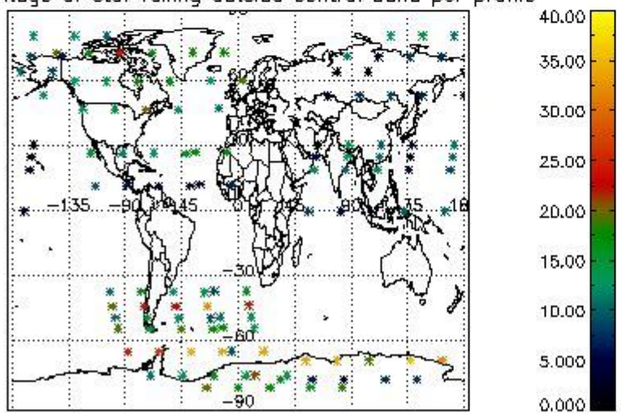
Percentage of cosmic ray hits per profile



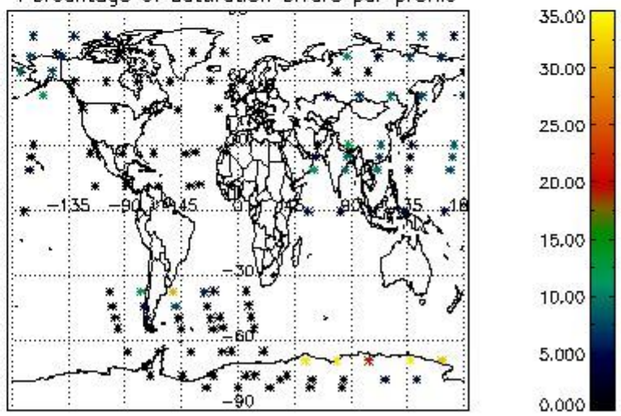
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



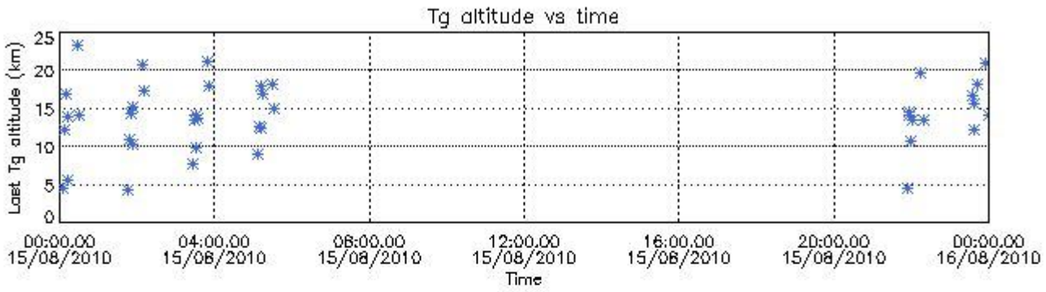
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

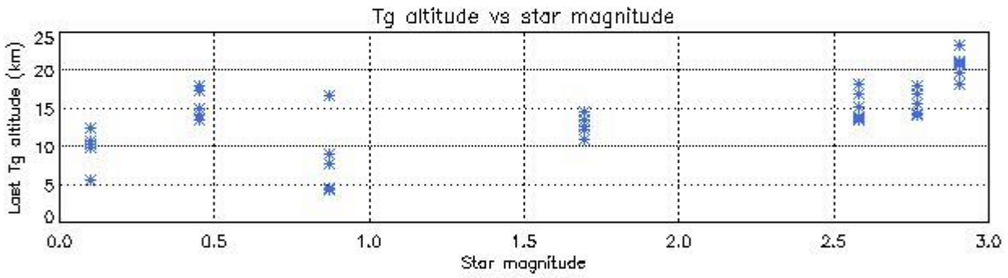
6.1 Statistics on tangent altitude lost:

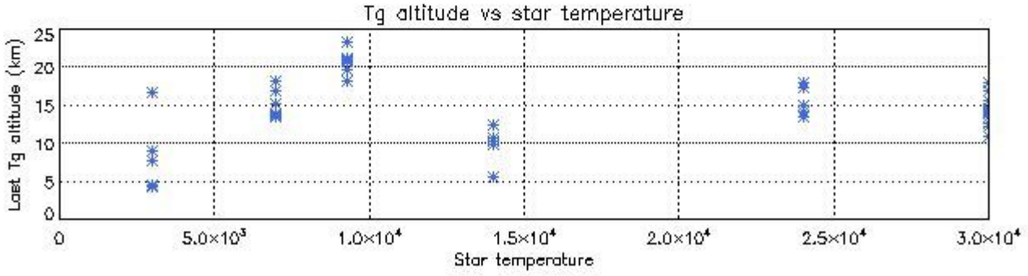
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.941	18.343	NaN
St. deviation:	4.5968	4.9127	NaN
Maximum:	23.272	25.881	NaN
Minimum:	4.2559	4.1283	NaN
Number of data:	41.000	54.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

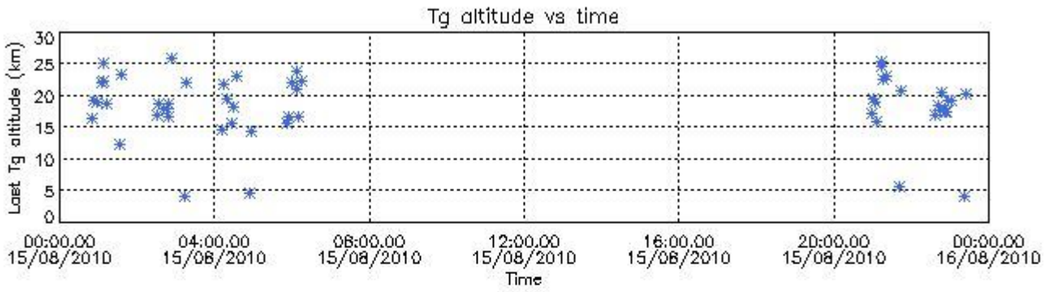


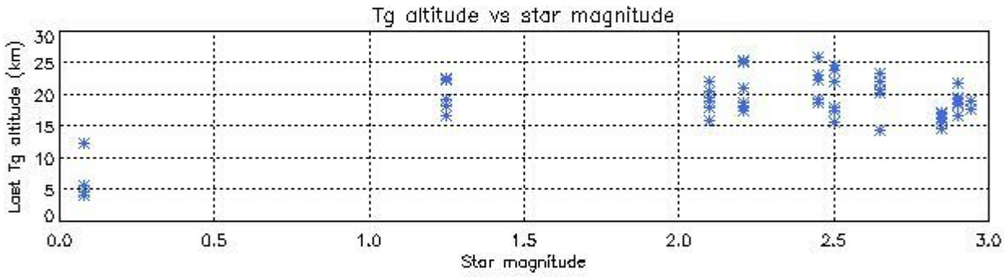


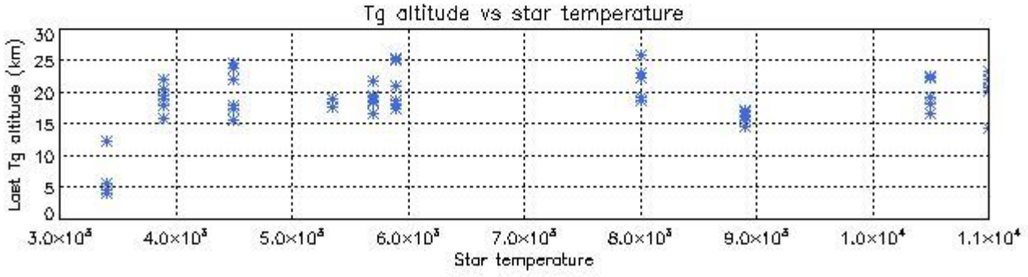


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





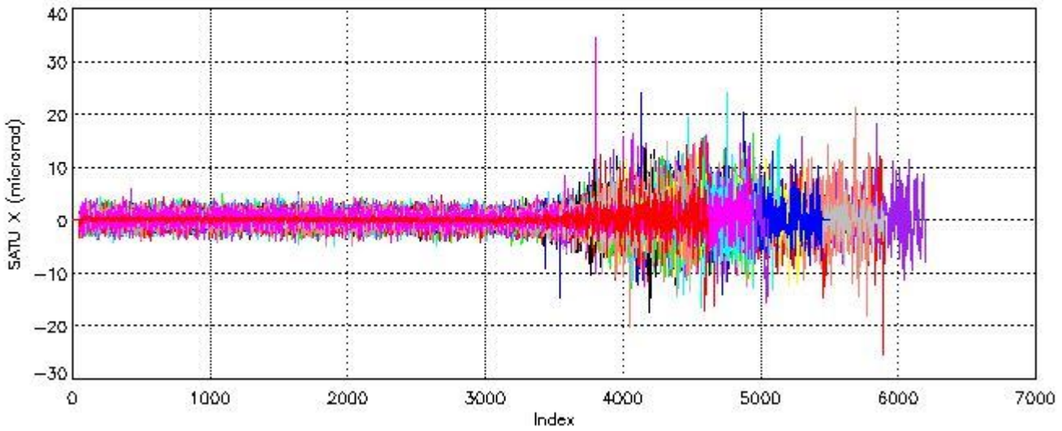


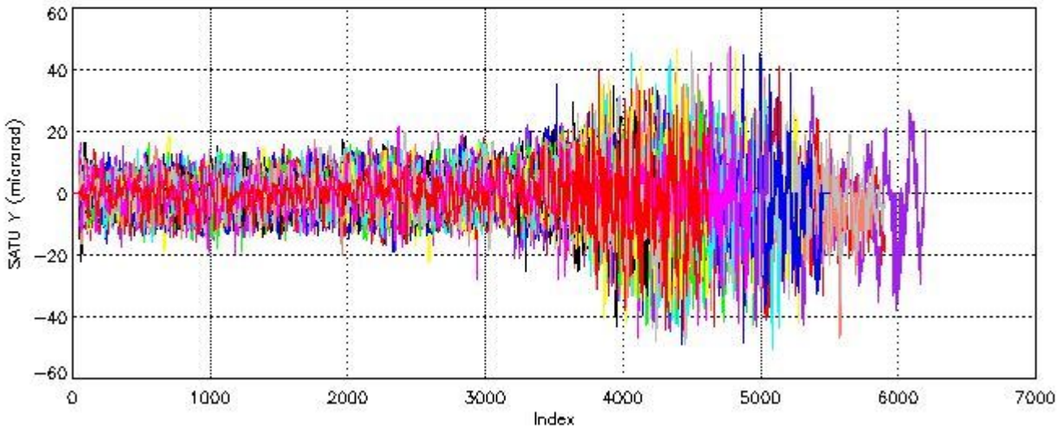
7. Star Acquisition and Tracking Unit (SATU)

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:	0.17715	-0.98695	0.21805	-0.84676
St. deviation:	0.63461	4.5709	0.71735	4.5098
Maximum:	5.9000	18.600	4.4000	15.700
Minimum:	-4.2000	-22.300	-4.0000	-19.500

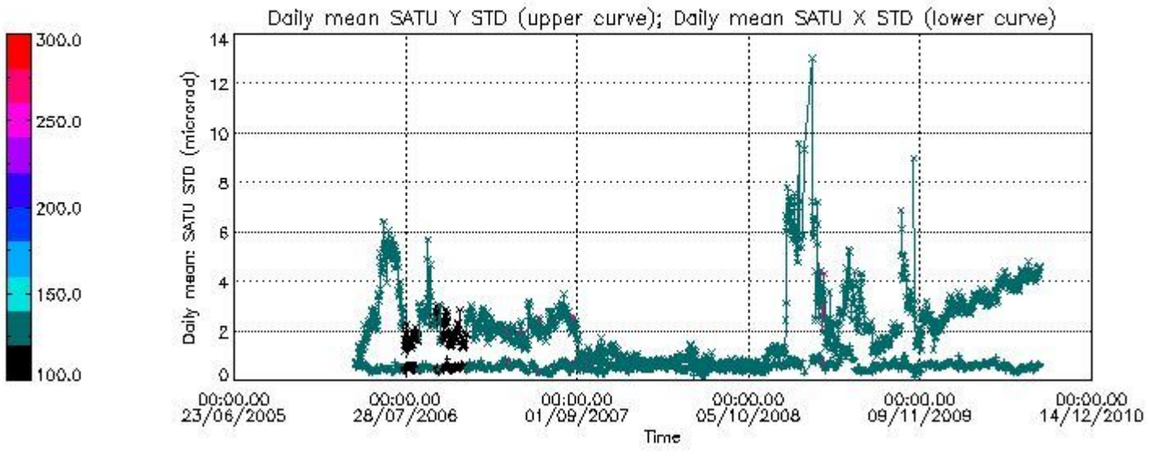
Number of data:	42650.	42650.	51700.	51700.

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.

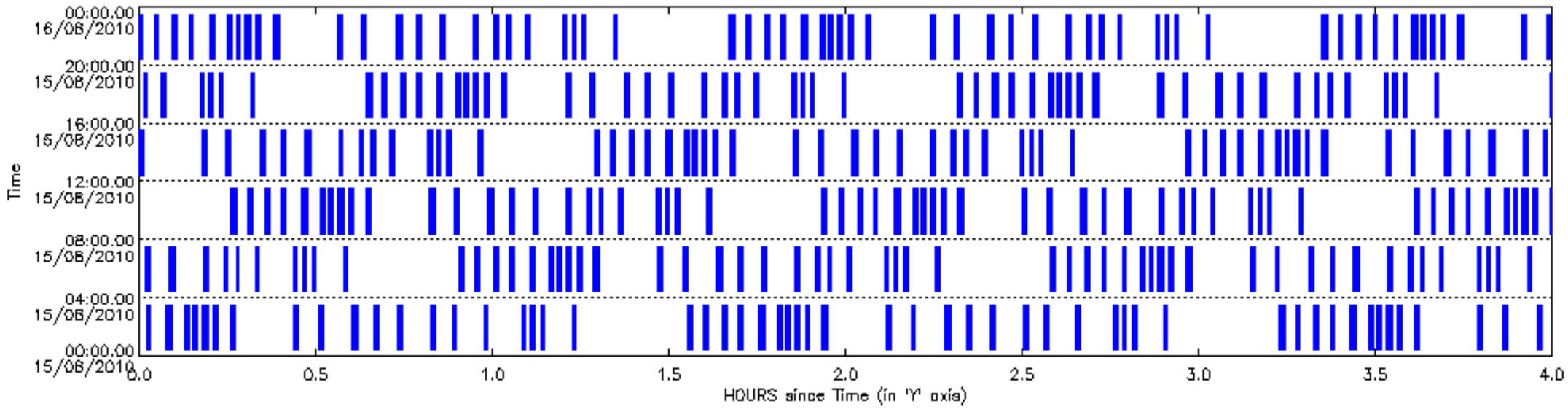
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

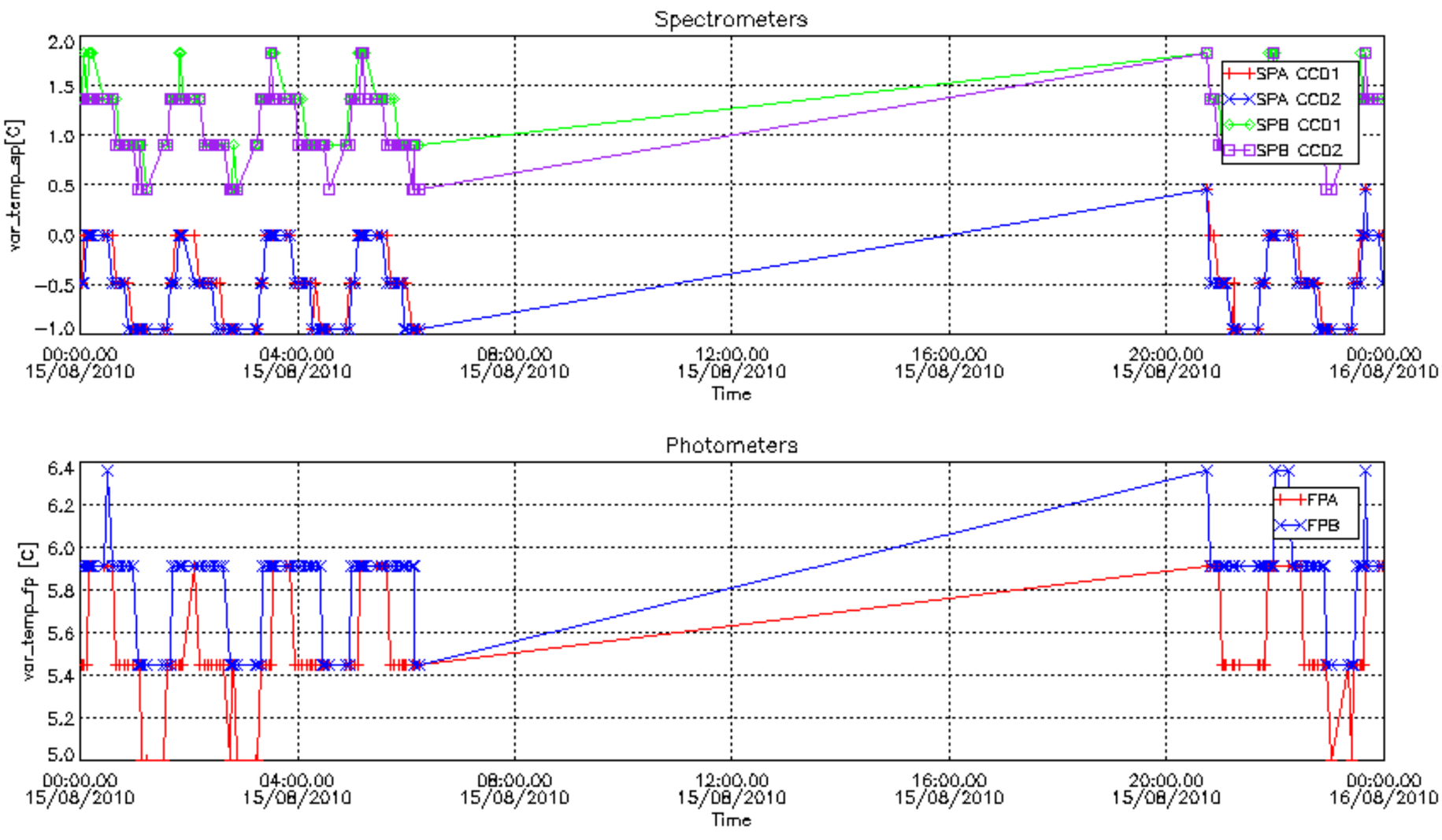


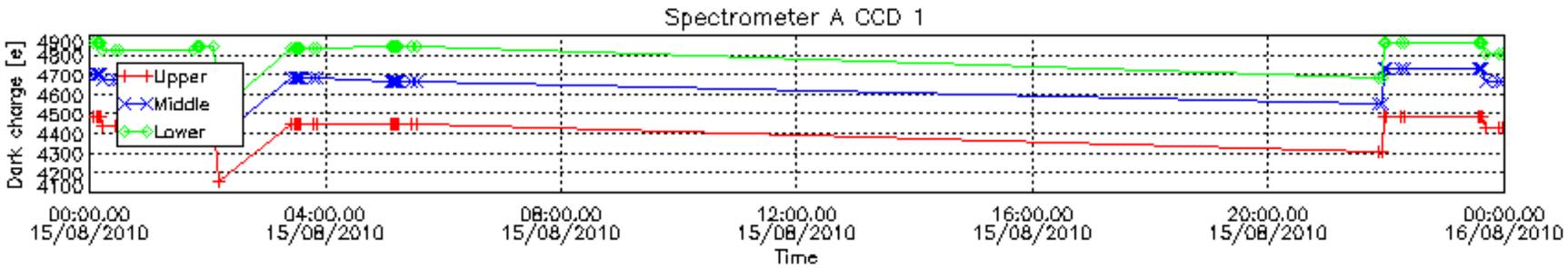
8. Auxiliary Data Files used for the production reported in section 2.4

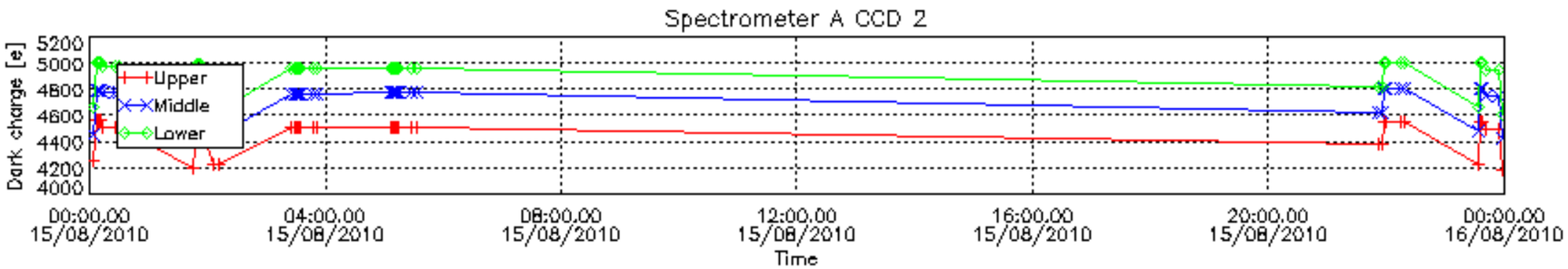
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

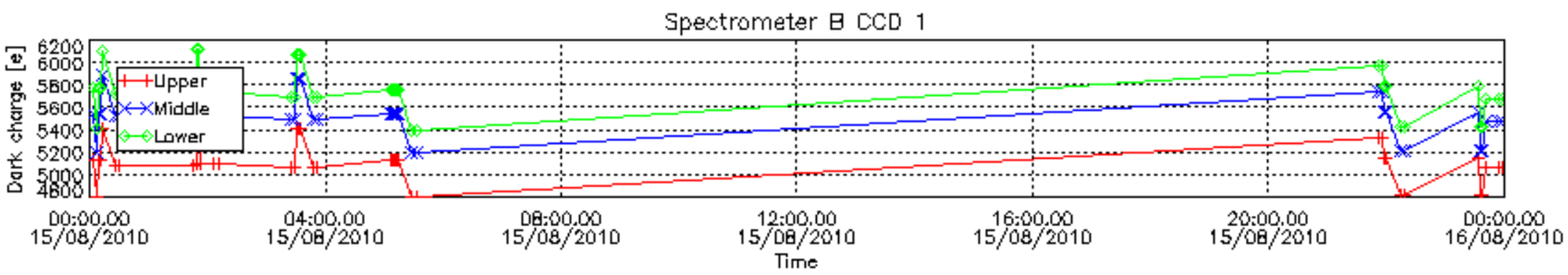
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-AUG-2010 00:01:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100810_092831_20100808_000000_20500101_000000	1	15-AUG-2010 00:01:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-AUG-2010 00:01:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-AUG-2010 00:01:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-AUG-2010 00:01:05
ECMWF_FILE	AUX_ECF_AXNECM20100814_054113_20100814_210000_20100815_090000	1	15-AUG-2010 00:01:05
ECMWF_FILE	AUX_ECF_AXNECM20100814_172112_20100815_030000_20100815_150000	40	15-AUG-2010 03:13:36
ECMWF_FILE	AUX_ECA_AXNECM20100815_050137_20100814_210000_20100815_090000	62	15-AUG-2010 04:54:12
ECMWF_FILE	AUX_ECF_AXNECM20100815_052137_20100815_150000_20100816_030000	84	15-AUG-2010 20:43:30
ECMWF_FILE	AUX_ECF_AXNECM20100815_052137_20100815_210000_20100816_090000	101	15-AUG-2010 21:57:00
OPTIONAL_ECMWF_FILE	MISSING	1	15-AUG-2010 00:01:05
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100814_222736_000057382092_00072_44214_0952.N1	1	15-AUG-2010 00:01:05
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_000833_000054192092_00073_44215_0953.N1	6	15-AUG-2010 00:12:30
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_014411_000041442092_00074_44216_0954.N1	24	15-AUG-2010 01:48:17
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_025834_000057382092_00075_44217_0955.N1	40	15-AUG-2010 03:13:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100814_092114_20100813_195254_20100823_211908	62	15-AUG-2010 04:54:12
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_204112_000041442092_00086_44228_0957.N1	84	15-AUG-2010 20:43:30
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_215535_000057382092_00086_44228_0958.N1	101	15-AUG-2010 21:57:00
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100815_233632_000057382092_00087_44229_0959.N1	124	15-AUG-2010 23:39:10

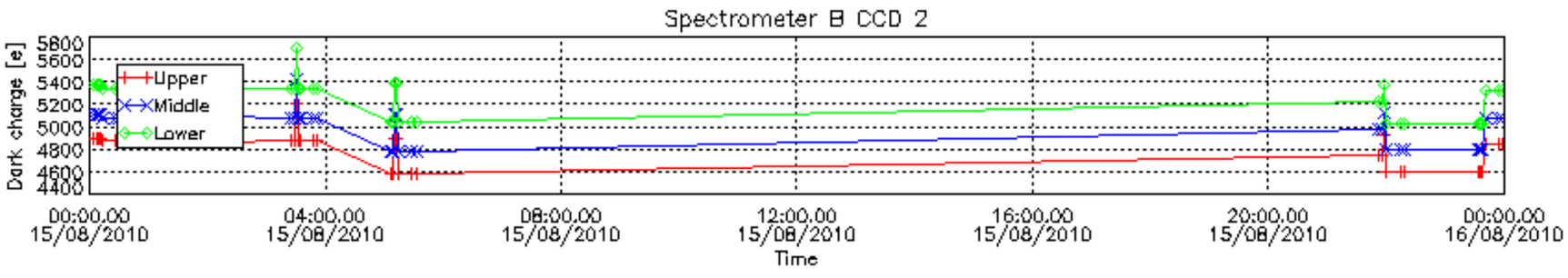

00:00.00
16/08/2010
20:00.00
15/08/2010
16:00.00
15/08/2010
12:00.00
15/08/2010
08:00.00
15/08/2010
04:00.00
15/08/2010
00:00.00
15/08/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

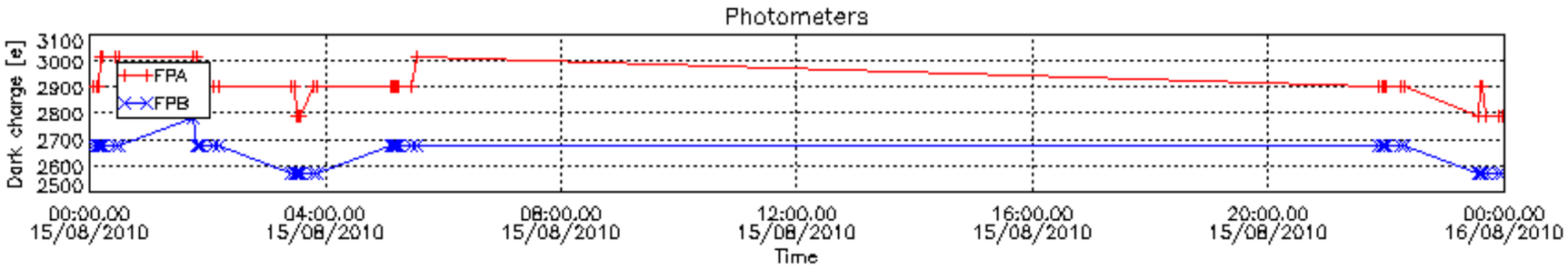

Spectrometers
var_temp_sp[C]
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
15/08/2010
04:00.00
15/08/2010
08:00.00
15/08/2010
12:00.00
15/08/2010
16:00.00
15/08/2010
20:00.00
15/08/2010
00:00.00
16/08/2010
Time
Photometers
var_temp_fp [C]
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
FPA
FPB
00:00.00
15/08/2010
04:00.00
15/08/2010
08:00.00
15/08/2010
12:00.00
15/08/2010
16:00.00
15/08/2010
20:00.00
15/08/2010
00:00.00
16/08/2010
Time

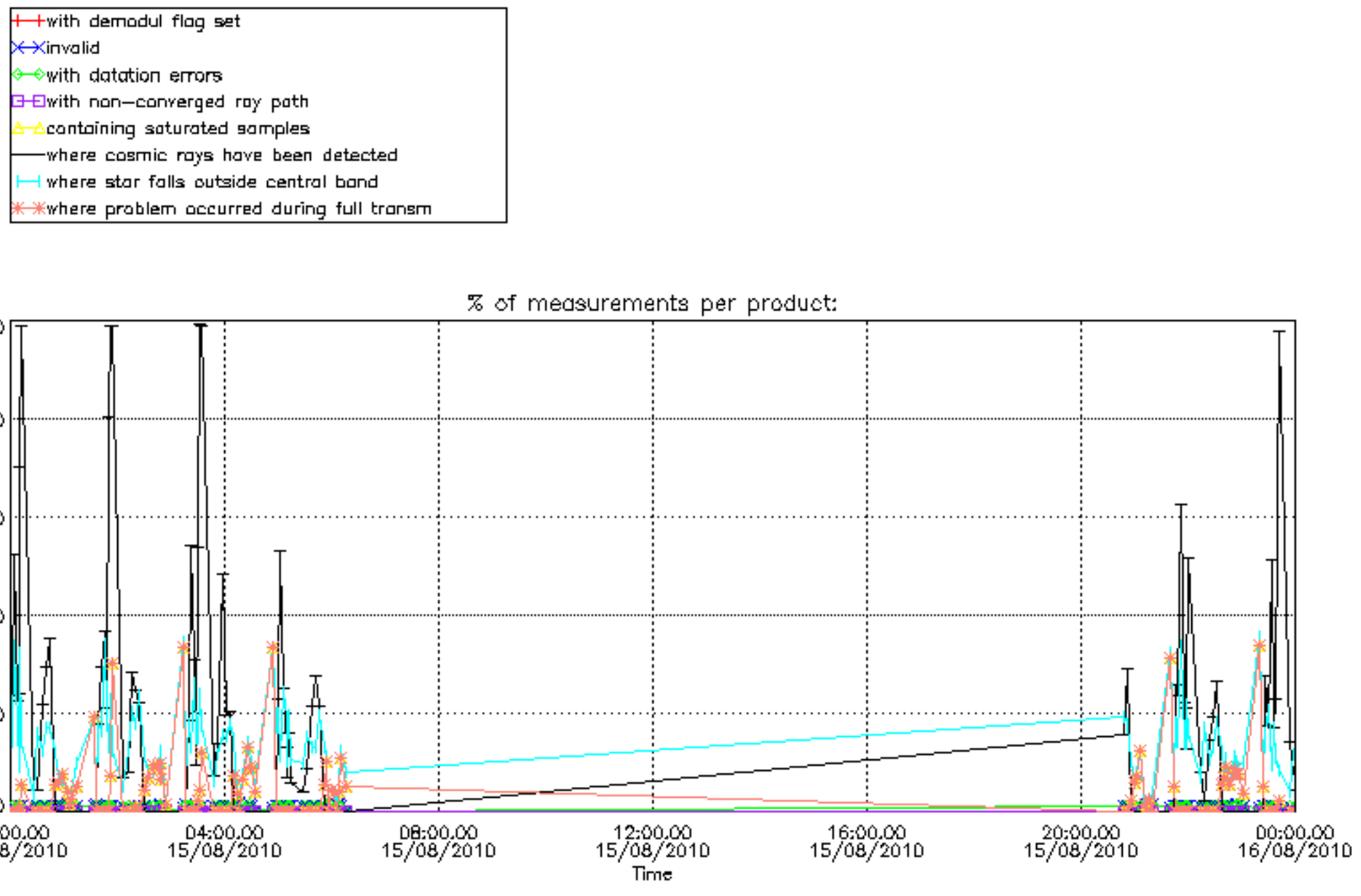

Spectrometer A CCD 1
Dark charge [e]
Upper
Middle
Lower
Time
00:00.00 15/08/2010
04:00.00 15/08/2010
08:00.00 15/08/2010
12:00.00 15/08/2010
16:00.00 15/08/2010
20:00.00 15/08/2010
00:00.00 16/08/2010

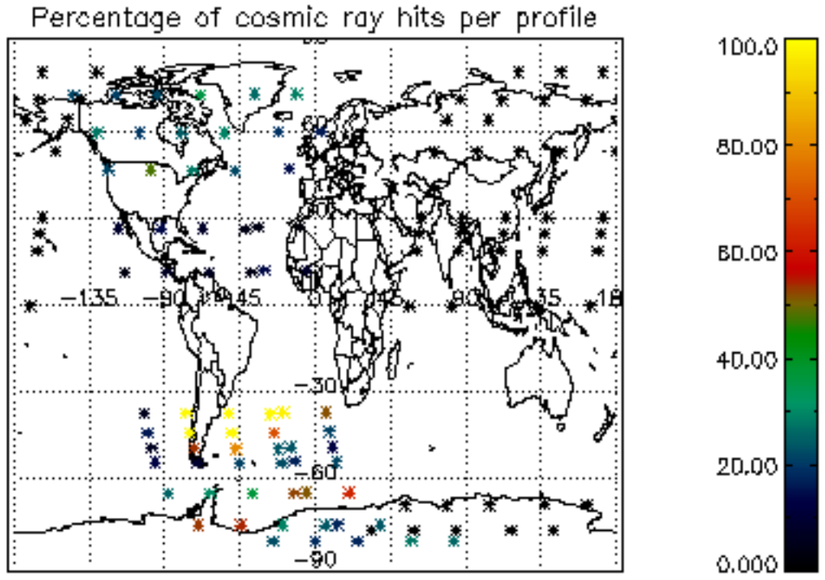

Spectrometer A CCD 2
Dark charge [e]
Upper
Middle
Lower
Time
00:00.00 15/08/2010
04:00.00 15/08/2010
08:00.00 15/08/2010
12:00.00 15/08/2010
16:00.00 15/08/2010
20:00.00 15/08/2010
00:00.00 16/08/2010

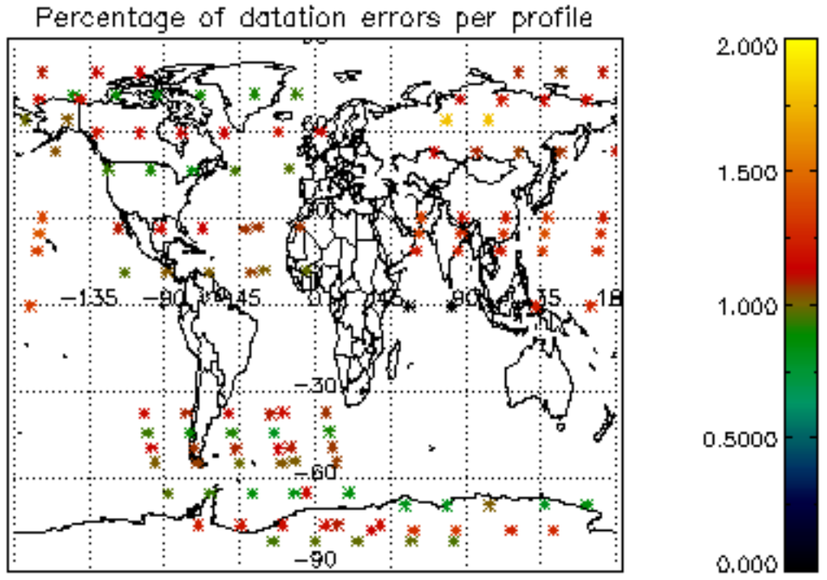

Spectrometer B CCD 1
Dark charge [e]
Upper
Middle
Lower
Time
00:00.00 15/08/2010
04:00.00 15/08/2010
08:00.00 15/08/2010
12:00.00 15/08/2010
16:00.00 15/08/2010
20:00.00 15/08/2010
00:00.00 16/08/2010

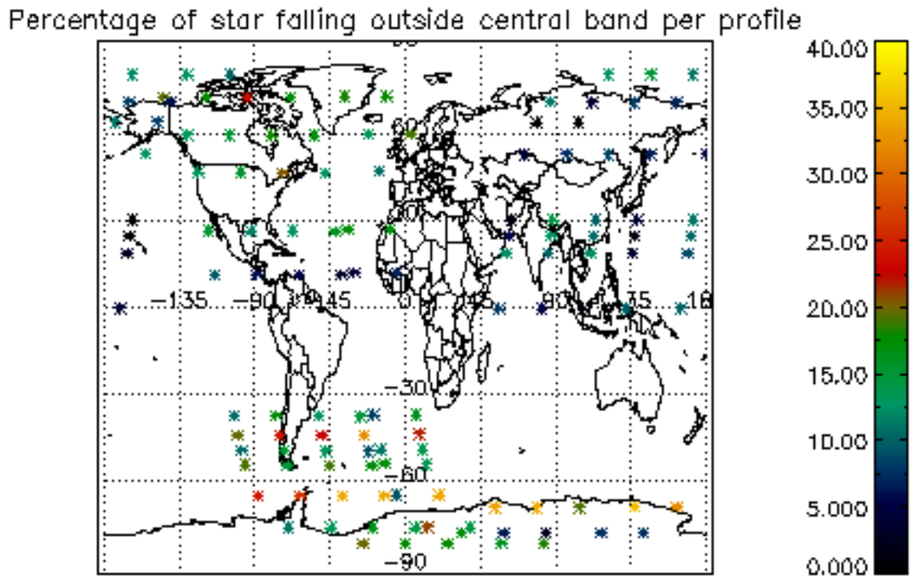

Spectrometer B CCD 2
Dark charge [e]
Upper
Middle
Lower
Time
00:00.00 15/08/2010
04:00.00 15/08/2010
08:00.00 15/08/2010
12:00.00 15/08/2010
16:00.00 15/08/2010
20:00.00 15/08/2010
00:00.00 16/08/2010

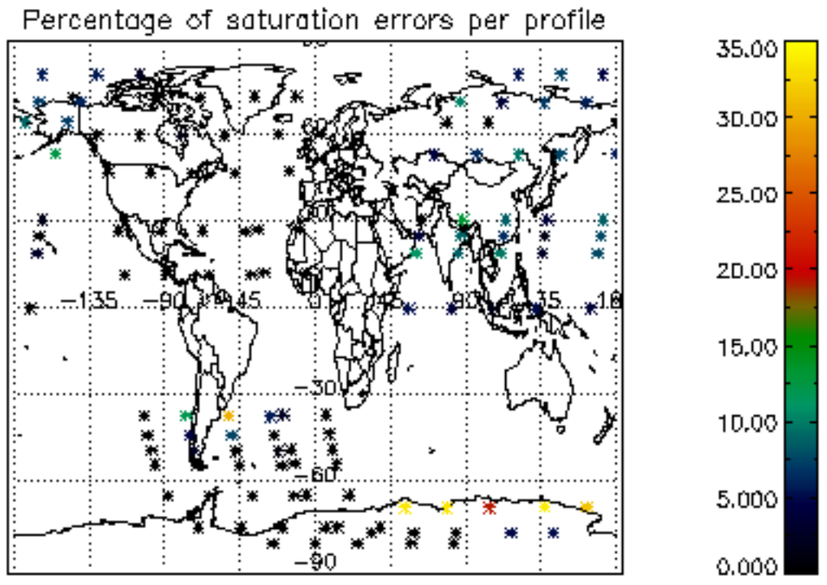

Photometers
Dark charge [e]
FPA
FPB
Time
00:00.00 15/08/2010
04:00.00 15/08/2010
08:00.00 15/08/2010
12:00.00 15/08/2010
16:00.00 15/08/2010
20:00.00 15/08/2010
00:00.00 16/08/2010


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
15/08/2010
04:00.00
15/08/2010
08:00.00
15/08/2010
12:00.00
15/08/2010
16:00.00
15/08/2010
20:00.00
15/08/2010
00:00.00
16/08/2010
Time

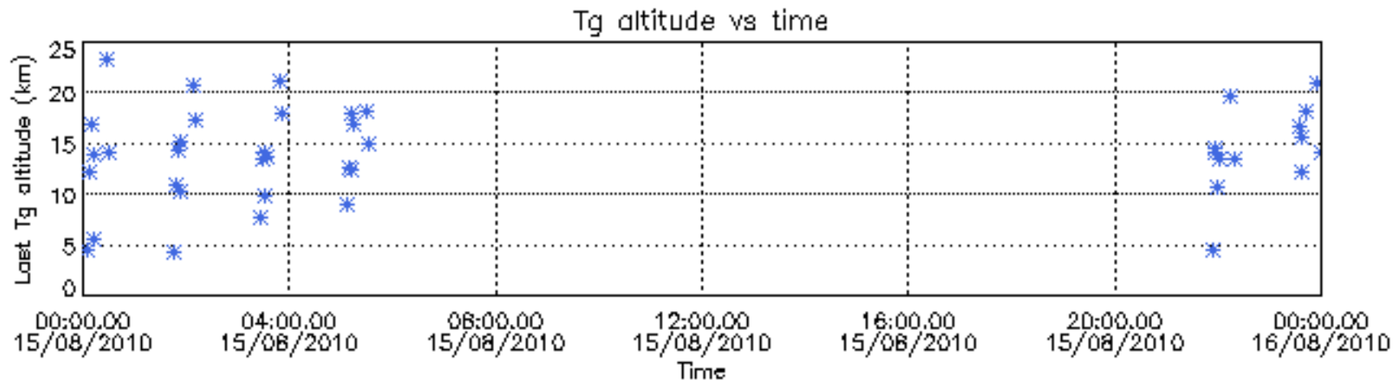

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−30
−60
−90

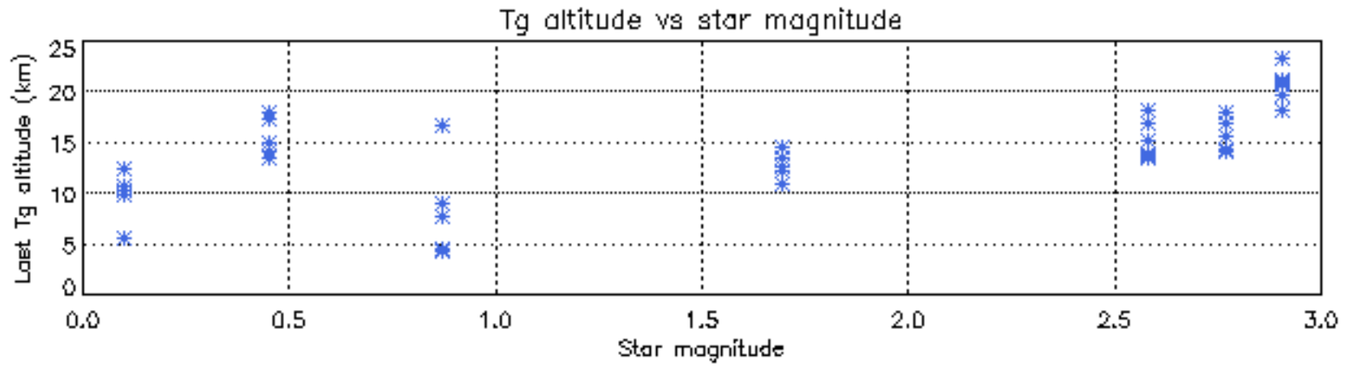

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−30
−60
−90

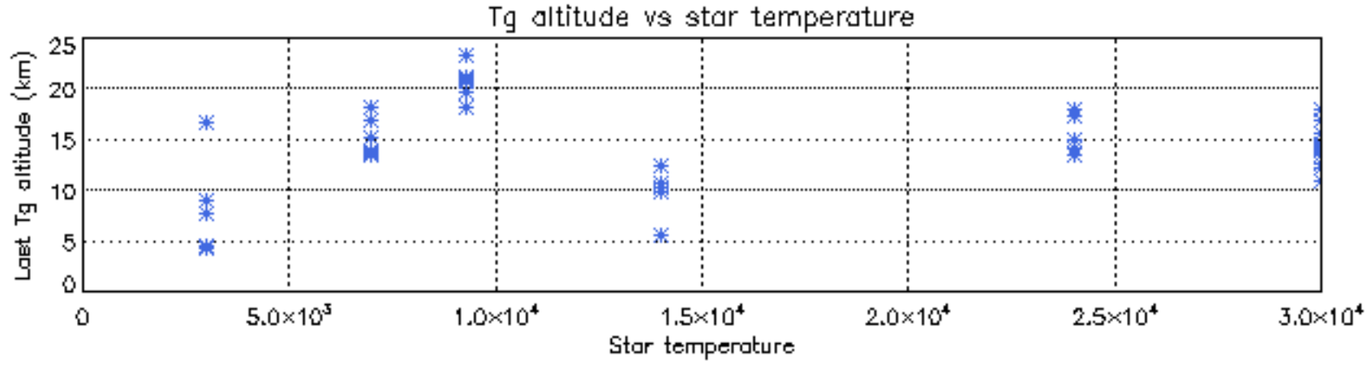

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−30
−60
−90


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

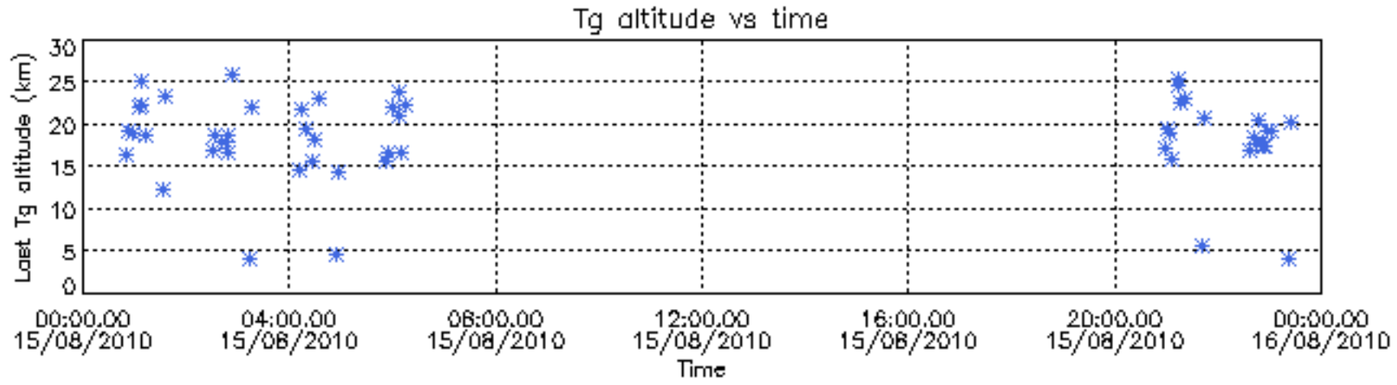
Tangent altitude at which the star is lost

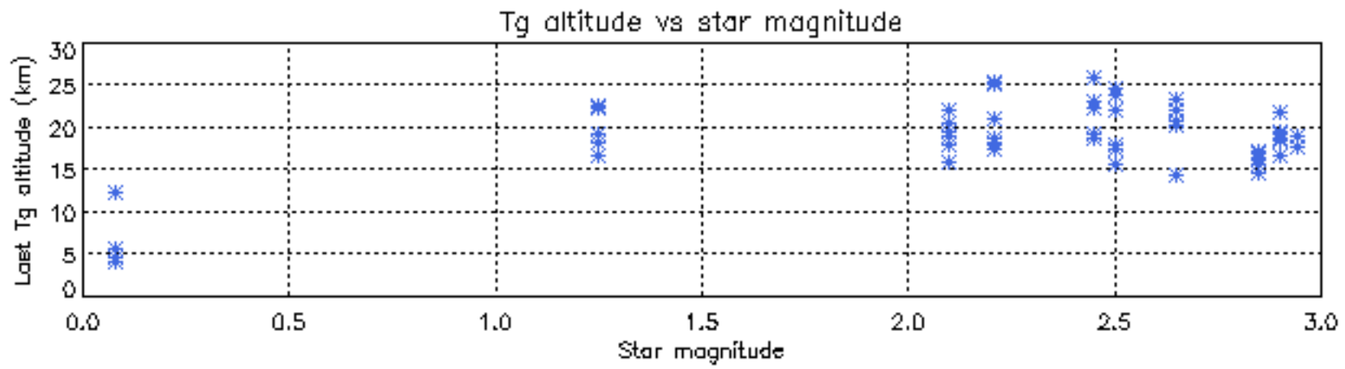


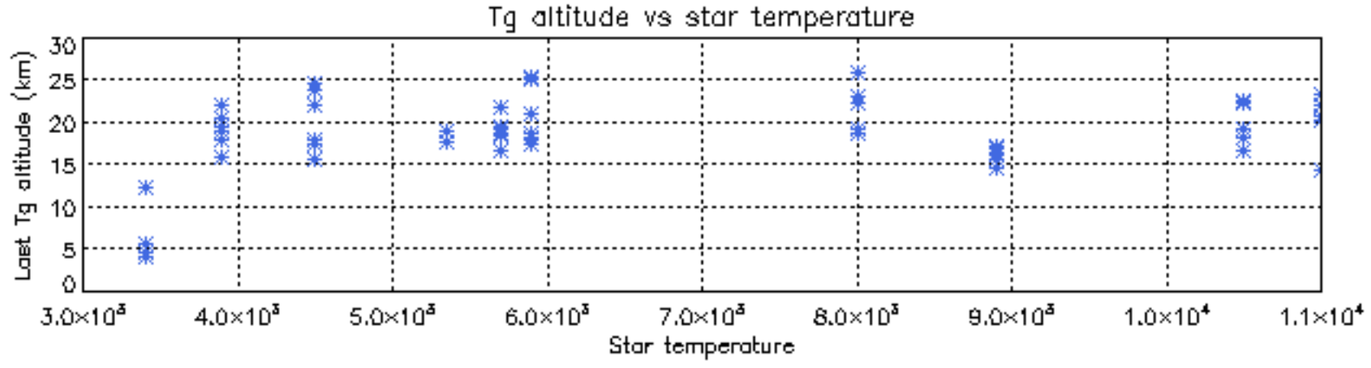


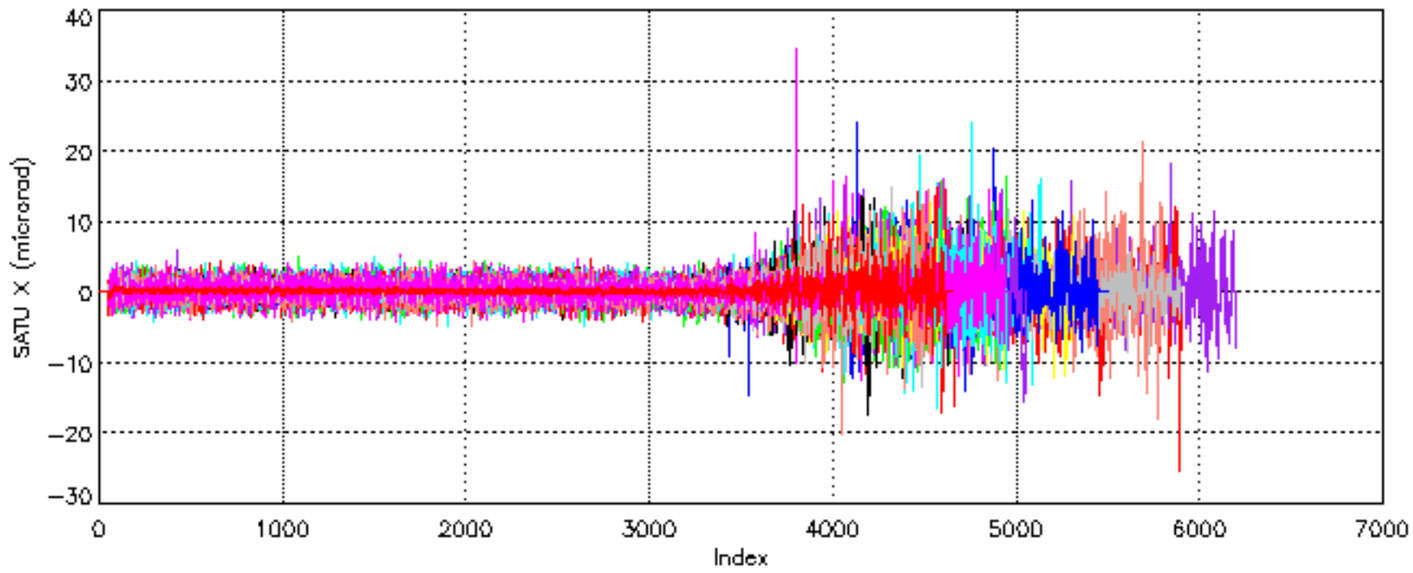


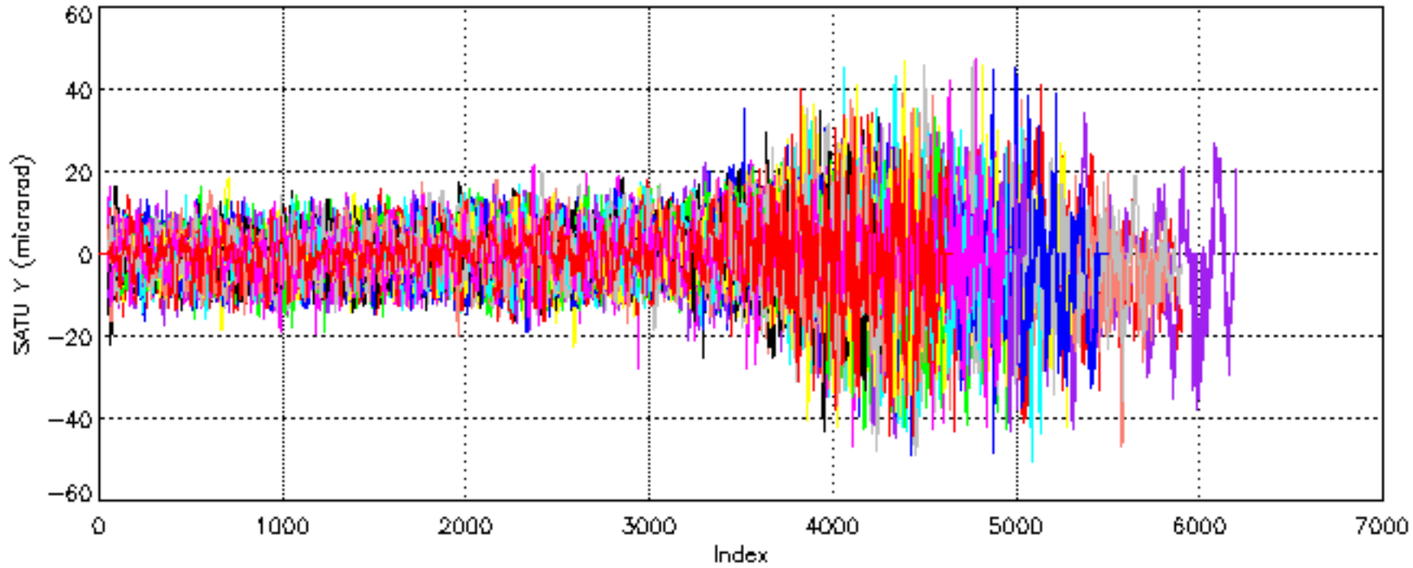
Tangent altitude at which the star is lost

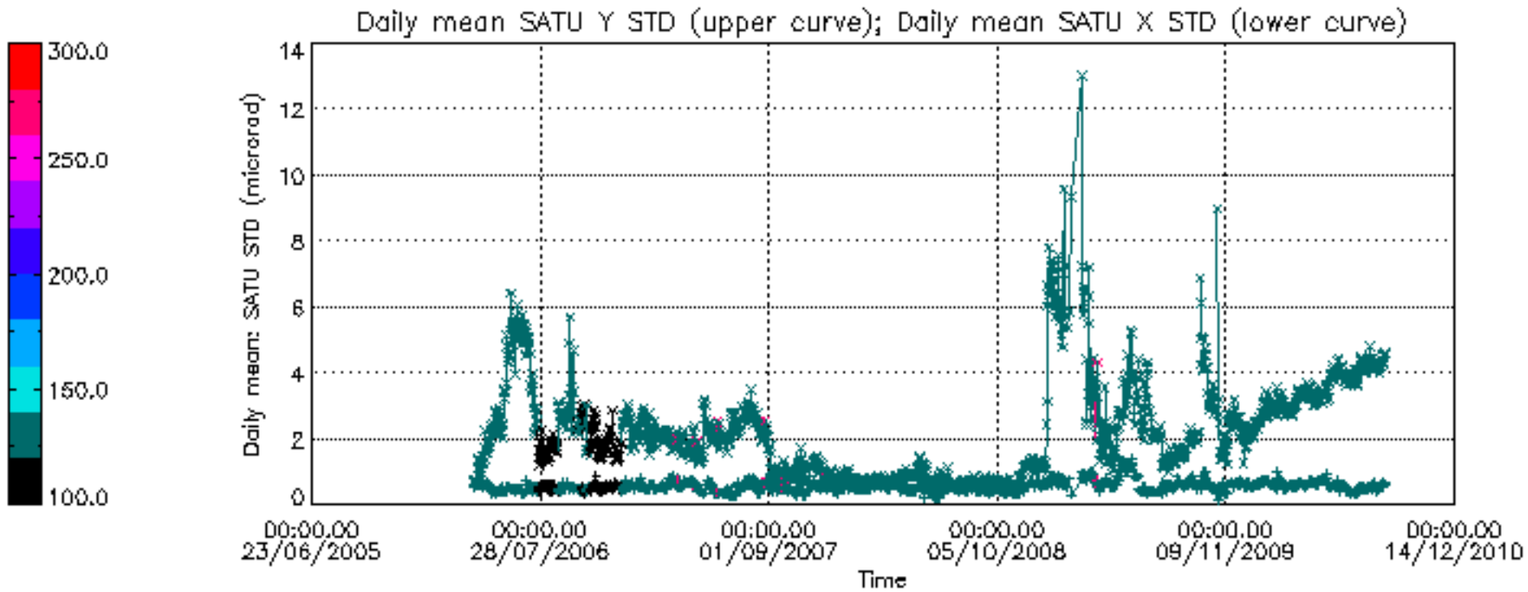







40
30
20
10
0
−10
−20
−30
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


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


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

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2; -304.7; 01-AUG-2010 00:58:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44015
3; -27.8; 01-AUG-2010 01:02:51; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;44015
4; 304.4; 01-AUG-2010 01:08:23; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44016
5; 589.1; 01-AUG-2010 01:13:08; Dark ; 64.5; 84; Alp Phe ; 2.40; 4500;occ; 129; 0;44016
6; 917.6; 01-AUG-2010 01:18:36; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;44016
7; 1106.1; 01-AUG-2010 01:21:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;44016
8; 2059.4; 01-AUG-2010 01:37:38; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;44016
9; 2581.0; 01-AUG-2010 01:46:20; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;44016
10; 2695.1; 01-AUG-2010 01:48:14; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;44016
11; 3092.0; 01-AUG-2010 01:54:51; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;44016
12; 3980.4; 01-AUG-2010 02:09:39; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;44016
13; 4139.3; 01-AUG-2010 02:12:18; Bright; 44.5; 175; 39Del Per ; 3.01; 19400;occ; 89; 0;44016
14; 4315.7; 01-AUG-2010 02:15:14; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;44016
15; 4500.7; 01-AUG-2010 02:18:19; Dark ; 29.0; 150; 44Zet Per ; 2.89; 28000;occ; 58; 0;44016
16; 4638.3; 01-AUG-2010 02:20:37; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;44016
17; 4788.1; 01-AUG-2010 02:23:07; Dark ; 63.0; 13; 87Alp Tau ; 0.87; 3800;occ; 126; 0;44016
18; 4908.8; 01-AUG-2010 02:25:07; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;44016
19; 5013.5; 01-AUG-2010 02:26:52; Dark ; 40.5; 72; 34Del Ori ; 2.25; 30000;occ; 81; 0;44016
20; 5171.3; 01-AUG-2010 02:29:30; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;44016
21; 5444.4; 01-AUG-2010 02:34:03; Dark ; 54.5; 165; 34Gam Eri ; 2.95; 3200;occ; 109; 0;44016
22; 5731.9; 01-AUG-2010 02:38:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44016
23; 6009.4; 01-AUG-2010 02:43:28; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;44016
24; 6340.9; 01-AUG-2010 02:49:00; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44017
25; 6626.0; 01-AUG-2010 02:53:45; Dark ; 34.0; 84; Alp Phe ; 2.40; 4500;occ; 68; 0;44017
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2; -304.7; 01-AUG-2010 00:58:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44015
3; -27.8; 01-AUG-2010 01:02:51; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;44015
4; 304.4; 01-AUG-2010 01:08:23; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44016
5; 589.1; 01-AUG-2010 01:13:08; Dark ; 64.5; 84; Alp Phe ; 2.40; 4500;occ; 129; 0;44016
6; 917.6; 01-AUG-2010 01:18:36; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;44016
7; 1106.1; 01-AUG-2010 01:21:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;44016
8; 2059.4; 01-AUG-2010 01:37:38; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;44016
9; 2581.0; 01-AUG-2010 01:46:20; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;44016
10; 2695.1; 01-AUG-2010 01:48:14; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;44016
11; 3092.0; 01-AUG-2010 01:54:51; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;44016
12; 3980.4; 01-AUG-2010 02:09:39; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;44016
13; 4139.3; 01-AUG-2010 02:12:18; Bright; 44.5; 175; 39Del Per ; 3.01; 19400;occ; 89; 0;44016
14; 4315.7; 01-AUG-2010 02:15:14; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;44016
15; 4500.7; 01-AUG-2010 02:18:19; Dark ; 29.0; 150; 44Zet Per ; 2.89; 28000;occ; 58; 0;44016
16; 4638.3; 01-AUG-2010 02:20:37; Dark ; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;44016
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19; 5013.5; 01-AUG-2010 02:26:52; Dark ; 40.5; 72; 34Del Ori ; 2.25; 30000;occ; 81; 0;44016
20; 5171.3; 01-AUG-2010 02:29:30; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;44016
21; 5444.4; 01-AUG-2010 02:34:03; Dark ; 54.5; 165; 34Gam Eri ; 2.95; 3200;occ; 109; 0;44016
22; 5731.9; 01-AUG-2010 02:38:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44016
23; 6009.4; 01-AUG-2010 02:43:28; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;44016
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26; 6953.7; 01-AUG-2010 02:59:12; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;44017
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5; 3092.0; 01-AUG-2010 01:54:51; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;44016
6; 3980.4; 01-AUG-2010 02:09:39; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;44016
7; 4139.3; 01-AUG-2010 02:12:18; Bright; 44.5; 175; 39Del Per ; 3.01; 19400;occ; 89; 0;44016
8; 4315.7; 01-AUG-2010 02:15:14; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;44016
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  14; 5171.3; 01-AUG-2010 02:29:30; Dark ; 43.5;   7; 19Bet Ori ; 0.10; 14000;occ; 87;   0;44016
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   5; 3978.8; 01-AUG-2010 08:52:01; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98;   0;44020
   6; 4078.3; 01-AUG-2010 08:53:41; Bright; 50.0;   35; 33Alp Per ; 1.79; 6250;occ; 100;   0;44020
   7; 4200.5; 01-AUG-2010 08:55:43; Bright; 55.0;   6; 13Alp Aur ; 0.08; 3400;occ; 110;   0;44020
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  13; 5014.9; 01-AUG-2010 09:09:17; Dark ; 38.5;   72; 34Del Ori ; 2.25; 30000;occ; 77;   0;44020

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   5;-1223.7; 05-AUG-2010 03:38:15; Dark ; 57.5;   13; 87Alp Tau ; 0.87; 3800;occ; 115;   0;44074
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  28; 7845.6; 07-AUG-2010 03:25:35; Bright;  47.5;  154; 22Bet Aqr  ; 2.90;  5700;occ;  95;   0;44103
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 10; 4118.3; 07-AUG-2010 12:27:03; Bright; 71.0; 175; 39Del Per ; 3.01; 19400;occ; 142;   0;44108
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 16; 5058.5; 07-AUG-2010 12:42:43; Dark ; 47.5;   30; 46Eps Ori ; 1.69; 30000;occ; 95;   0;44108
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 11; 4529.8; 07-AUG-2010 14:14:30; Dark ; 47.0;   28; 12Bet Tau ; 1.65; 15200;occ; 94;   0;44109
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 13; 4828.8; 07-AUG-2010 14:19:29; Dark ; 66.0;   13; 87Alp Tau ; 0.87; 3800;occ; 132;   0;44109
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 16; 5140.6; 07-AUG-2010 14:24:41; Dark ; 42.5; 125; 44Iot Ori ; 2.77; 30000;occ; 85;   0;44109
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 18; 5342.4; 07-AUG-2010 14:28:03; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89;   0;44109
 19; 5504.1; 07-AUG-2010 14:30:45; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;44109

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  23; 6999.0; 07-AUG-2010 14:55:39; Dark  ;  46.0;   31;   Alp Gru  ; 1.73; 15200;occ;  92;   0;44110
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  13; 1803.5; 11-AUG-2010 02:59:36; Bright; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94;   0;44160
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9; 4363.4; 13-AUG-2010 12:42:38; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;44194
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  11; 4365.0; 14-AUG-2010 18:53:26; Bright;  38.5;  107; 37The Aur  ; 2.65; 11000;occ;  77;   0;44212
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  13; 4715.7; 14-AUG-2010 18:59:17; Dark  ;  42.5;   44; 24Gam Gem  ; 1.93; 11000;occ;  85;   0;44212
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   7; 1243.0; 15-AUG-2010 00:43:48; Dark  ;  55.5;   18; 24Alp PsA  ; 1.17;  9700;occ; 111;   0;44216
   8; 1589.3; 15-AUG-2010 00:49:34; Bright;  45.5;  142; 49Del Cap  ; 2.85;  8900;occ;  91;   0;44216
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  14; 5199.2; 15-AUG-2010 08:32:08; Dark ; 46.5; 125; 44Iot Ori ; 2.77; 30000;occ; 93;   0;44220
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  10; 1592.8; 17-AUG-2010 01:27:00; Bright;  43.5;  142; 49Del Cap  ; 2.85;  8900;occ;  87;   0;44245
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  13; 2110.6; 17-AUG-2010 01:35:38; Bright;  47.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  94;   0;44245
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   9;  809.3; 17-AUG-2010 02:54:32; Dark  ;  57.5;   84;   Alp Phe  ; 2.40;  4500;occ; 115;   0;44246
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  13; 5627.6; 20-AUG-2010 04:20:35; Dark ; 59.0;   0;   ; 0.00;   0;occ; 118;   0;44289
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  16; 6880.4; 20-AUG-2010 04:41:28; Dark ; 54.0;   84;   Alp Phe ; 2.40; 4500;occ; 108;   0;44290
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  22; 8134.6; 20-AUG-2010 05:02:22; Bright; 42.0;   61; 8Eps Peg ; 2.10; 3900;occ; 84;   0;44290
  23; 8529.7; 20-AUG-2010 05:08:57; Bright; 38.5;   92; 53Eps Cyg ; 2.50; 4500;occ; 77;   0;44290
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  14;  845.1; 20-AUG-2010 06:22:05; Dark  ;  54.0;   84;   Alp Phe  ; 2.40;  4500;occ; 108;   0;44291
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  16; 2095.9; 20-AUG-2010 21:48:19; Bright;  43.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  86;   0;44300
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  20; 3255.8; 20-AUG-2010 22:07:39; Bright;  48.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  96;   0;44300
  21; 4186.3; 20-AUG-2010 22:23:09; Bright;  53.0;    6; 13Alp Aur  ; 0.08;  3400;occ; 106;   0;44300
  22; 4371.2; 20-AUG-2010 22:26:14; Bright;  41.5;  107; 37The Aur  ; 2.65; 11000;occ;  83;   0;44300
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  25; 4962.3; 20-AUG-2010 22:36:05; Dark  ;  61.0;   14; 58Alp Ori  ; 0.87;  3000;occ; 122;   0;44300
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  27; 5166.3; 20-AUG-2010 22:39:29; Dark  ;  52.0;   30; 46Eps Ori  ; 1.69; 30000;occ; 104;   0;44300
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   5; 1907.6; 21-AUG-2010 19:32:58; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91;   0;44313
   6; 2093.1; 21-AUG-2010 19:36:03; Bright; 45.5;   61; 8Eps Peg ; 2.10; 3900;occ; 91;   0;44313
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  23; 2996.7; 22-AUG-2010 04:14:06; Bright;  36.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  73;   0;44318
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  17; 1600.9; 22-AUG-2010 05:31:26; Bright;  40.5;  142; 49Del Cap  ; 2.85;  8900;occ;  81;   0;44319
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  19; 1906.6; 22-AUG-2010 05:36:32; Bright;  44.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  88;   0;44319
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   3; 1602.0; 22-AUG-2010 20:36:51; Bright;  43.0;  142; 49Del Cap  ; 2.85;  8900;occ;  86;   0;44328
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  19; 4372.8; 22-AUG-2010 23:03:38; Bright;  61.0;  107; 37The Aur  ; 2.65; 11000;occ; 122;   0;44329
  20; 4572.2; 22-AUG-2010 23:06:57; Dark  ;  56.5;   28; 12Bet Tau  ; 1.65; 15200;occ; 113;   0;44329
  21; 4746.5; 22-AUG-2010 23:09:51; Dark  ;  43.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  86;   0;44329
  22; 4977.7; 22-AUG-2010 23:13:43; Dark  ;  65.0;   14; 58Alp Ori  ; 0.87;  3000;occ; 130;   0;44329
  23; 5070.7; 22-AUG-2010 23:15:16; Dark  ;  56.5;   27; 24Gam Ori  ; 1.64; 26000;occ; 113;   0;44329
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  13; 4975.9; 22-AUG-2010 16:31:17; Dark  ;  59.5;   14; 58Alp Ori  ; 0.87;  3000;occ; 119;   0;44325
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  22; 6907.5; 22-AUG-2010 17:03:29; Dark  ;  57.0;   84;   Alp Phe  ; 2.40;  4500;occ; 114;   0;44326
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   4; 1905.8; 22-AUG-2010 17:20:43; Bright;  45.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  90;   0;44326
   5; 2091.3; 22-AUG-2010 17:23:48; Bright;  41.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  82;   0;44326
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   9; 3236.9; 22-AUG-2010 17:42:54; Bright;  47.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  94;   0;44326
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   3; 1602.3; 22-AUG-2010 18:56:15; Bright;  42.5;  142; 49Del Cap  ; 2.85;  8900;occ;  85;   0;44327
   4; 1799.4; 22-AUG-2010 18:59:32; Bright;  40.0;  154; 22Bet Aqr  ; 2.90;  5700;occ;  80;   0;44327
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  15; 4976.8; 22-AUG-2010 19:52:30; Dark  ;  60.0;   14; 58Alp Ori  ; 0.87;  3000;occ; 120;   0;44327
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  23; 6554.3; 22-AUG-2010 20:18:47; Dark  ;  48.0;    9;   Alp Eri  ; 0.45; 24000;occ;  96;   0;44328
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   8; 1602.7; 23-AUG-2010 01:38:39; Bright;  43.0;  142; 49Del Cap  ; 2.85;  8900;occ;  86;   0;44331
   9; 1799.5; 23-AUG-2010 01:41:56; Bright;  41.0;  154; 22Bet Aqr  ; 2.90;  5700;occ;  82;   0;44331
  10; 1905.2; 23-AUG-2010 01:43:42; Bright;  44.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  88;   0;44331
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   7; 4979.5; 23-AUG-2010 04:15:32; Dark  ;  53.5;   14; 58Alp Ori  ; 0.87;  3000;occ; 107;   0;44332
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  13; 523.1; 23-AUG-2010 08:03:03; Dark ; 49.5;   9;   Alp Eri ; 0.45; 24000;occ; 99;   0;44335
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   4; 2488.5; 23-AUG-2010 08:35:49; Bright; 36.0;   92; 53Eps Cyg ; 2.50; 4500;occ; 72;   0;44335
   5; 2680.6; 23-AUG-2010 08:39:01; Bright; 38.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 76;   0;44335
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   7; 3230.2; 23-AUG-2010 08:48:11; Bright; 47.0;   74; 11Bet Cas ; 2.27; 6600;occ; 94;   0;44335
   8; 4181.3; 23-AUG-2010 09:04:02; Bright; 52.0;   6; 13Alp Aur ; 0.08; 3400;occ; 104;   0;44335
   9; 4373.6; 23-AUG-2010 09:07:14; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85;   0;44335
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  11; 4748.6; 23-AUG-2010 09:13:29; Dark ; 44.5;   44; 24Gam Gem ; 1.93; 11000;occ; 89;   0;44335
  12; 4981.5; 23-AUG-2010 09:17:22; Dark ; 62.0;   14; 58Alp Ori ; 0.87; 3000;occ; 124;   0;44335
  13; 5075.7; 23-AUG-2010 09:18:56; Dark ; 48.0;   27; 24Gam Ori ; 1.64; 26000;occ; 96;   0;44335
  14; 5193.1; 23-AUG-2010 09:20:54; Dark ; 53.5;   30; 46Eps Ori ; 1.69; 30000;occ; 107;   0;44335

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  17; 5551.5; 23-AUG-2010 09:26:52; Dark  ;  49.0;  139;  9Bet Lep  ; 2.83;  5600;occ;  98;   0;44335
  18; 5667.3; 23-AUG-2010 09:28:48; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;44335
  19; 6367.0; 23-AUG-2010 09:40:27; Dark  ;  52.5;  157;   The1Eri  ; 2.91;  9300;occ; 105;   0;44336
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  21; 6914.7; 23-AUG-2010 09:49:35; Dark  ;  49.5;   84;   Alp Phe  ; 2.40;  4500;occ;  99;   0;44336
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  23; 7326.1; 23-AUG-2010 09:56:27; Dark  ;  50.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 100;   0;44336
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   9; 4373.4; 23-AUG-2010 10:47:50; Bright;  41.0;  107; 37The Aur  ; 2.65; 11000;occ;  82;   0;44336
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  11; 4649.7; 23-AUG-2010 10:52:26; Dark  ;  50.5;  151; 13Mu  Gem  ; 2.89;  3000;occ; 101;   0;44336
  12; 4748.6; 23-AUG-2010 10:54:05; Dark  ;  46.0;   44; 24Gam Gem  ; 1.93; 11000;occ;  92;   0;44336
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  17; 5395.9; 23-AUG-2010 11:04:52; Dark  ;  67.5;    7; 19Bet Ori  ; 0.10; 14000;occ; 135;   0;44336
  18; 5552.2; 23-AUG-2010 11:07:29; Dark  ;  50.0;  139;  9Bet Lep  ; 2.83;  5600;occ; 100;   0;44336
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  20; 6368.3; 23-AUG-2010 11:21:05; Dark  ;  52.0;  157;   The1Eri  ; 2.91;  9300;occ; 104;   0;44337
  21; 6560.1; 23-AUG-2010 11:24:16; Dark  ;  45.5;    9;   Alp Eri  ; 0.45; 24000;occ;  91;   0;44337
  22; 6915.3; 23-AUG-2010 11:30:12; Dark  ;  54.0;   84;   Alp Phe  ; 2.40;  4500;occ; 108;   0;44337
  23; 7042.9; 23-AUG-2010 11:32:19; Dark  ;  44.5;   63;   Bet Gru  ; 2.15;  2800;occ;  89;   0;44337
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  18; 5396.8; 23-AUG-2010 12:45:29; Dark  ;  67.0;    7; 19Bet Ori  ; 0.10; 14000;occ; 134;   0;44337
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   7; 530.5; 24-AUG-2010 02:29:46; Dark ; 52.0;   9;   Alp Eri ; 0.45; 24000;occ; 104;   0;44346
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   9; -474.7; 24-AUG-2010 03:53:37; Dark  ;  53.0;  139;  9Bet Lep  ; 2.83;  5600;occ; 106;   0;44346
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13; 4177.8; 24-AUG-2010 21:57:09; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;44357
14; 4374.3; 24-AUG-2010 22:00:25; Bright; 56.0; 107; 37The Aur ; 2.65; 11000;occ; 112; 0;44357
15; 4655.4; 24-AUG-2010 22:05:06; Dark ; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;44357
16; 4754.9; 24-AUG-2010 22:06:46; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;44357

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9; 4375.5; 26-AUG-2010 09:13:01; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;44378
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6; 2985.6; 26-AUG-2010 13:51:39; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;44381

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   8; 3196.3; 26-AUG-2010 17:16:21; Bright;  46.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  92;   0;44383
   9; 3328.4; 26-AUG-2010 17:18:33; Bright;  47.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  94;   0;44383
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   6; 2081.9; 26-AUG-2010 18:38:23; Bright;  41.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  82;   0;44384
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   9; 3195.7; 26-AUG-2010 18:56:57; Bright;  46.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  93;   0;44384
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  16; 3324.4; 27-AUG-2010 01:41:29; Bright; 47.5;   76; 27Gam Cas ; 2.30; 30000;occ; 95;   0;44388
  17; 4172.4; 27-AUG-2010 01:55:37; Bright; 57.0;   6; 13Alp Aur ; 0.08; 3400;occ; 114;   0;44388
  18; 4375.8; 27-AUG-2010 01:59:00; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98;   0;44388
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   5; 396.5; 27-AUG-2010 02:33:17; Dark ; 51.5; 157;   The1Eri ; 2.91; 9300;occ; 103;   0;44389
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   7; 915.6; 27-AUG-2010 02:41:56; Dark ; 54.5;   84;   Alp Phe ; 2.40; 4500;occ; 109;   0;44389
   8; 1026.2; 27-AUG-2010 02:43:47; Dark ; 46.0;   63;   Bet Gru ; 2.15; 2800;occ; 92;   0;44389
   9; 1307.4; 27-AUG-2010 02:48:28; Dark ; 51.0;   18; 24Alp PsA ; 1.17; 9700;occ; 102;   0;44389

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  11; 1802.0; 27-AUG-2010 02:56:42; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79;   0;44389
  12; 1898.7; 27-AUG-2010 02:58:19; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86;   0;44389
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   5;-1022.2; 27-AUG-2010 03:50:14; Dark ; 54.0;   14; 58Alp Ori ; 0.87; 3000;occ; 108;   0;44389
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   3;-1371.4; 27-AUG-2010 05:25:01; Dark ; 62.0; 151; 13Mu Gem ; 2.89; 3000;occ; 124;   0;44390
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   5;-1021.1; 27-AUG-2010 05:30:51; Dark ; 54.0;   14; 58Alp Ori ; 0.87; 3000;occ; 108;   0;44390
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   9; 398.8; 27-AUG-2010 05:54:31; Dark ; 54.0; 157;   The1Eri ; 2.91; 9300;occ; 108;   0;44391
  10; 559.7; 27-AUG-2010 05:57:12; Dark ; 44.5;   9;   Alp Eri ; 0.45; 24000;occ; 89;   0;44391
  11; 917.1; 27-AUG-2010 06:03:09; Dark ; 57.0;   84;   Alp Phe ; 2.40; 4500;occ; 114;   0;44391
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  15; 1802.3; 27-AUG-2010 06:17:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77;   0;44391
  16; 1899.0; 27-AUG-2010 06:19:31; Bright; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85;   0;44391
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  13; 1308.7; 27-AUG-2010 07:50:17; Dark ; 51.5;   18; 24Alp PsA ; 1.17; 9700;occ; 103;   0;44392
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   8; 4171.8; 27-AUG-2010 08:38:00; Bright;  54.5;    6; 13Alp Aur  ; 0.08;  3400;occ; 109;   0;44392
   9; 4376.1; 27-AUG-2010 08:41:24; Bright;  44.0;  107; 37The Aur  ; 2.65; 11000;occ;  88;   0;44392
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  18; 6954.4; 27-AUG-2010 09:24:23; Dark  ;  47.5;   84;   Alp Phe  ; 2.40;  4500;occ;  95;   0;44393
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   5; 2983.8; 27-AUG-2010 09:58:48; Bright;  38.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  76;   0;44393
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  15; 5723.0; 27-AUG-2010 10:44:27; Dark  ;  59.0;    0;            ; 0.00;     0;occ; 118;   0;44393
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 4; -242.7; 31-AUG-2010 23:44:33; Dark  ;  59.5;    0;           ; 0.00;     0;occ; 119;   0;44458
 5;  524.9; 31-AUG-2010 23:57:20; Dark  ;  39.5;  143;   Alp Hyi  ; 2.86;  7200;occ;  79;   0;44459
 6;  601.9; 31-AUG-2010 23:58:37; Dark  ;  45.0;    9;   Alp Eri  ; 0.45; 24000;occ;  90;   0;44459
 7;  959.7; 01-SEP-2010 00:04:35; Dark  ;  47.5;   84;   Alp Phe  ; 2.40;  4500;occ;  95;   0;44459
 8; 1328.2; 01-SEP-2010 00:10:44; Dark  ;  47.0;   18; 24Alp PsA  ; 1.17;  9700;occ;  94;   0;44459
 9; 1618.7; 01-SEP-2010 00:15:34; Dark  ;  48.5;  142; 49Del Cap  ; 2.85;  8900;occ;  97;   0;44459
10; 1895.5; 01-SEP-2010 00:20:11; Bright;  41.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  82;   0;44459
11; 2075.2; 01-SEP-2010 00:23:11; Bright;  41.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  82;   0;44459
12; 2503.0; 01-SEP-2010 00:30:18; Bright;  46.0;  164; 44Eta Peg  ; 2.95;  5400;occ;  92;   0;44459
13; 2975.5; 01-SEP-2010 00:38:11; Bright;  38.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  77;   0;44459
14; 3145.2; 01-SEP-2010 00:41:01; Bright;  43.5;   74; 11Bet Cas  ; 2.27;  6600;occ;  87;   0;44459
15; 3273.7; 01-SEP-2010 00:43:09; Bright;  45.0;   76; 27Gam Cas  ; 2.30; 30000;occ;  90;   0;44459
16; 4208.2; 01-SEP-2010 00:58:43; Bright;  45.5;   42; 34Bet Aur  ; 1.90; 10200;occ;  91;   0;44459
17; 4377.9; 01-SEP-2010 01:01:33; Bright;  57.0;  107; 37The Aur  ; 2.65; 11000;occ; 114;   0;44459
18; 4514.1; 01-SEP-2010 01:03:49; Bright;  39.0;   17; 78Bet Gem  ; 1.16;  4500;occ;  78;   0;44459
19; 4685.5; 01-SEP-2010 01:06:41; Dark  ;  57.0;  151; 13Mu  Gem  ; 2.89;  3000;occ; 114;   0;44459
20; 4790.7; 01-SEP-2010 01:08:26; Dark  ;  52.5;   44; 24Gam Gem  ; 1.93; 11000;occ; 105;   0;44459
21; 4913.6; 01-SEP-2010 01:10:29; Dark  ;  49.5;    8; 10Alp CMi  ; 0.40;  6500;occ;  99;   0;44459
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