GOMOS Daily Report 16-MAR-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.

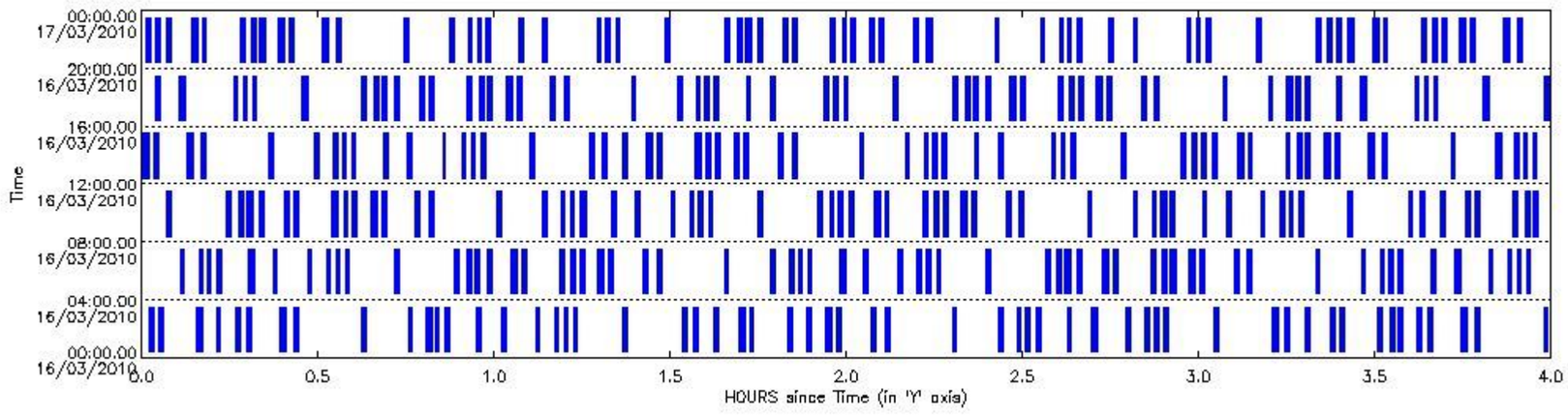
Item	Value
Time of report generation	19MAR2010 04:52:01
Data source version	GOMOS/5.00L04
Start time of products	16MAR2010 00:02:54
Stop time of products	16MAR2010 23:54:17
Store outputs in DB	Yes
Nb of level 1b prods	133
Nb of prods with errors	2

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

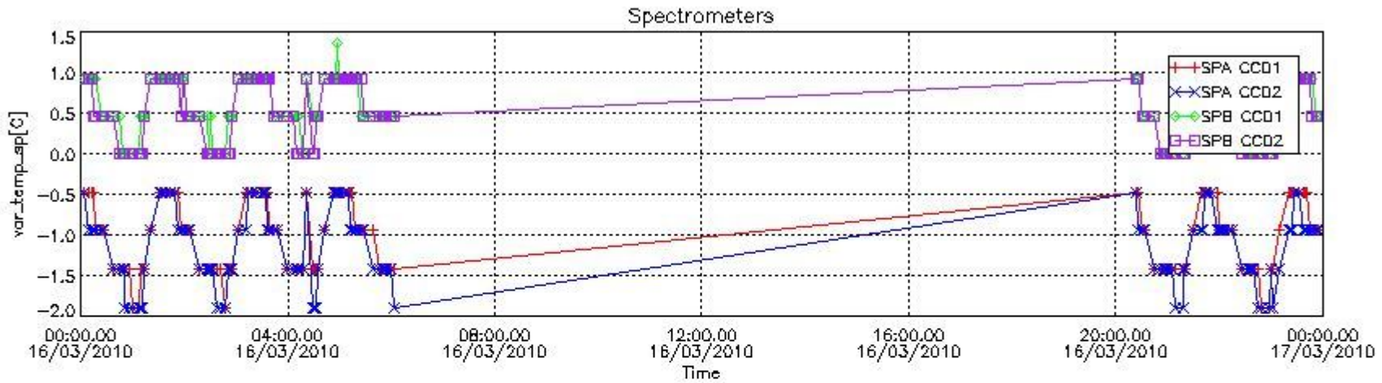
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100316_000254_000000502087_00403_42040_6627.N1	16-MAR-2010 00:02:54	Dark	50.000	141	Bet Ara	2.8400	4600.0	100	42040	No
2	GOM_TRA_1PNPDE20100316_000921_000000542087_00403_42040_6628.N1	16-MAR-2010 00:09:21	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	42040	No
3	GOM_TRA_1PNPDE20100316_001238_000000432087_00403_42040_6629.N1	16-MAR-2010 00:12:38	Dark	43.000	77	Eps Cen	2.3030	28000.	86	42040	No
4	GOM_TRA_1PNPDE20100316_001551_000000612087_00403_42040_6630.N1	16-MAR-2010 00:15:51	Straylight	61.000	54	5The Cen	2.0550	4500.0	122	42040	No
5	GOM_TRA_1PNPDE20100316_001742_000000512087_00403_42040_6631.N1	16-MAR-2010 00:17:42	Straylight	51.000	123	Iot Cen	2.7500	10200.	102	42040	No
6	GOM_TRA_1PNPDE20100316_002332_000000532087_00403_42040_6632.N1	16-MAR-2010 00:23:32	Straylight	53.000	106	9Bet Crv	2.6480	5600.0	106	42040	No
7	GOM_TRA_1PNPDE20100316_002552_000000502087_00403_42040_6633.N1	16-MAR-2010 00:25:52	Twi_and_stray	50.000	100	4Gam Crv	2.5800	13100.	100	42040	No
8	GOM_TRA_1PNPDE20100316_003731_000000392087_00403_42040_6634.N1	16-MAR-2010 00:37:31	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	42040	No
9	GOM_TRA_1PNPDE20100316_004518_000000412087_00403_42040_6635.N1	16-MAR-2010 00:45:18	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	42040	No
10	GOM_TRA_1PNPDE20100316_004829_000000532087_00403_42040_6636.N1	16-MAR-2010 00:48:29	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	42040	No
11	GOM_TRA_1PNPDE20100316_004958_000000382087_00403_42040_6637.N1	16-MAR-2010 00:49:58	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	42040	No
12	GOM_TRA_1PNPDE20100316_005135_000000472087_00403_42040_6638.N1	16-MAR-2010 00:51:35	Bright	47.000	32	77Eps UMa	1.7630	11000.	94	42040	No

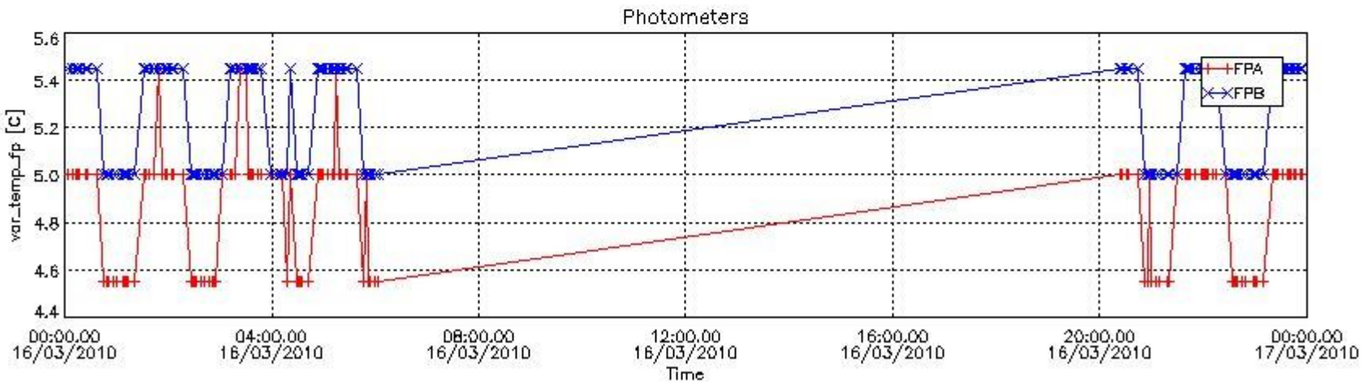
13	GOM_TRA_1PNPDE20100316_005703_000000432087_00403_42040_6639.N1	16-MAR-2010 00:57:03	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	42040	No
14	GOM_TRA_1PNPDE20100316_010108_000000522087_00403_42040_6640.N1	16-MAR-2010 01:01:08	Bright	51.500	119	14Eta Dra	2.7270	4700.0	103	42040	No
15	GOM_TRA_1PNPDE20100316_010703_000000422087_00403_42040_6641.N1	16-MAR-2010 01:07:03	Bright	42.000	69	33Gam Dra	2.2310	3800.0	84	42040	No
16	GOM_TRA_1PNPDE20100316_011015_000000392087_00403_42040_6642.N1	16-MAR-2010 01:10:15	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	42040	No
17	GOM_TRA_1PNPDE20100316_011149_000000362087_00403_42040_6643.N1	16-MAR-2010 01:11:49	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	42040	No
18	GOM_TRA_1PNPDE20100316_011332_000000352087_00403_42040_6644.N1	16-MAR-2010 01:13:32	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	42040	No
19	GOM_TRA_1PNPDE20100316_012151_000000522087_00403_42040_6645.N1	16-MAR-2010 01:21:51	Twi_and_stray	51.500	11	53Alp Aql	0.76500	8000.0	103	42040	No
20	GOM_TRA_1PNPDE20100316_013200_000000472087_00403_42040_6642.N1	16-MAR-2010 01:32:00	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	42040	No
21	GOM_TRA_1PNPDE20100316_013402_000000472087_00403_42040_6643.N1	16-MAR-2010 01:34:02	Dark	46.500	57	34Sig Sgr	2.0660	26000.	93	42040	No
22	GOM_TRA_1PNPDE20100316_013729_000000462087_00403_42040_6644.N1	16-MAR-2010 01:37:29	Dark	46.000	38	20Eps Sgr	1.8360	11000.	92	42040	No
23	GOM_TRA_1PNPDE20100316_014331_000000422087_00404_42041_6645.N1	16-MAR-2010 01:43:31	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	42041	No
24	GOM_TRA_1PNPDE20100316_014957_000000532087_00404_42041_6646.N1	16-MAR-2010 01:49:57	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	42041	No
25	GOM_TRA_1PNPDE20100316_015315_000000452087_00404_42041_6647.N1	16-MAR-2010 01:53:15	Dark	44.500	77	Eps Cen	2.3030	28000.	89	42041	No
26	GOM_TRA_1PNPDE20100316_015628_000000622087_00404_42041_6648.N1	16-MAR-2010 01:56:28	Straylight	61.500	54	5The Cen	2.0550	4500.0	123	42041	No
27	GOM_TRA_1PNPDE20100316_015819_000000502087_00404_42041_6649.N1	16-MAR-2010 01:58:19	Straylight	49.500	123	Iot Cen	2.7500	10200.	99	42041	No
28	GOM_TRA_1PNPDE20100316_020408_000000542087_00404_42041_6650.N1	16-MAR-2010 02:04:08	Straylight	54.000	106	9Bet Crv	2.6480	5600.0	108	42041	No
29	GOM_TRA_1PNPDE20100316_020628_000000512087_00404_42041_6651.N1	16-MAR-2010 02:06:28	Twi_and_stray	51.000	100	4Gam Crv	2.5800	13100.	102	42041	No
30	GOM_TRA_1PNPDE20100316_021807_000000392087_00404_42041_6652.N1	16-MAR-2010 02:18:07	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	42041	No
31	GOM_TRA_1PNPDE20100316_022554_000000412087_00404_42041_6653.N1	16-MAR-2010 02:25:54	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	42041	No
32	GOM_TRA_1PNPDE20100316_022904_000000392087_00404_42041_6654.N1	16-MAR-2010 02:29:04	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	42041	No
33	GOM_TRA_1PNPDE20100316_023034_000000382087_00404_42041_6655.N1	16-MAR-2010 02:30:34	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	42041	No
34	GOM_TRA_1PNPDE20100316_023211_000000632087_00404_42041_6656.N1	16-MAR-2010 02:32:11	Bright	63.000	32	77Eps UMa	1.7630	11000.	126	42041	No
35	GOM_TRA_1PNPDE20100316_023738_000000402087_00404_42041_6657.N1	16-MAR-2010 02:37:38	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42041	No
36	GOM_TRA_1PNPDE20100316_024144_000000582087_00404_42041_6669.N1	16-MAR-2010 02:41:44	Bright	58.000	119	14Eta Dra	2.7270	4700.0	116	42041	No
37	GOM_TRA_1PNPDE20100316_024739_000000422087_00404_42041_6670.N1	16-MAR-2010 02:47:39	Bright	42.000	69	33Gam Dra	2.2310	3800.0	84	42041	No
38	GOM_TRA_1PNPDE20100316_025051_000000382087_00404_42041_6671.N1	16-MAR-2010 02:50:51	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	42041	No
39	GOM_TRA_1PNPDE20100316_025225_000000552087_00404_42041_6672.N1	16-MAR-2010 02:52:25	Bright	55.000	66	37Gam Cyg	2.2080	5900.0	110	42041	No
40	GOM_TRA_1PNPDE20100316_025408_000000392087_00404_42041_6673.N1	16-MAR-2010 02:54:08	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	42041	No
41	GOM_TRA_1PNPDE20100316_030227_000000512087_00404_42041_6674.N1	16-MAR-2010 03:02:27	Twi_and_stray	50.500	11	53Alp Aql	0.76500	8000.0	101	42041	No
42	GOM_TRA_1PNPDE20100316_031237_000000512087_00404_42041_6675.N1	16-MAR-2010 03:12:37	Dark	50.500	155	41Pi Sgr	2.9000	6600.0	101	42041	No
43	GOM_TRA_1PNPDE20100316_031439_000000492087_00404_42041_6676.N1	16-MAR-2010 03:14:39	Dark	49.000	57	34Sig Sgr	2.0660	26000.	98	42041	No
44	GOM_TRA_1PNPDE20100316_031807_000000462087_00404_42041_6677.N1	16-MAR-2010 03:18:07	Dark	45.500	38	20Eps Sgr	1.8360	11000.	91	42041	No
45	GOM_TRA_1PNPDE20100316_032408_000000422087_00405_42042_6678.N1	16-MAR-2010 03:24:08	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	42042	No
46	GOM_TRA_1PNPDE20100316_033034_000000482087_00405_42042_6679.N1	16-MAR-2010 03:30:34	Dark	47.500	4	Alp1Cen	-0.010000	5800.0	95	42042	No
47	GOM_TRA_1PNPDE20100316_033230_000000492087_00405_42042_6680.N1	16-MAR-2010 03:32:30	Dark	48.500	78	Alp Lup	2.3040	28000.	97	42042	No
48	GOM_TRA_1PNPDE20100316_033356_000000512087_00405_42042_6681.N1	16-MAR-2010 03:33:56	Dark	51.000	81	Eta Cen	2.3560	28000.	102	42042	No
49	GOM_TRA_1PNPDE20100316_033705_000000602087_00405_42042_6682.N1	16-MAR-2010 03:37:05	Straylight	59.500	54	5The Cen	2.0550	4500.0	119	42042	No
50	GOM_TRA_1PNPDE20100316_033855_000000502087_00405_42042_6683.N1	16-MAR-2010 03:38:55	Straylight	50.000	123	Iot Cen	2.7500	10200.	100	42042	No
51	GOM_TRA_1PNPDE20100316_034444_000000552087_00405_42042_6684.N1	16-MAR-2010 03:44:44	Straylight	54.500	106	9Bet Crv	2.6480	5600.0	109	42042	No
52	GOM_TRA_1PNPDE20100316_034704_000000502087_00405_42042_6685.N1	16-MAR-2010 03:47:04	Twi_and_stray	49.500	100	4Gam Crv	2.5800	13100.	99	42042	No
53	GOM_TRA_1PNPDE20100316_035843_000000382087_00405_42042_6686.N1	16-MAR-2010 03:58:43	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	42042	No
54	GOM_TRA_1PNPDE20100316_040629_000000402087_00405_42042_6687.N1	16-MAR-2010 04:06:29	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	42042	No
55	GOM_TRA_1PNPDE20100316_040940_000000392087_00405_42042_6688.N1	16-MAR-2010 04:09:40	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	42042	No
56	GOM_TRA_1PNPDE20100316_041110_000000382087_00405_42042_6689.N1	16-MAR-2010 04:11:10	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	42042	No
57	GOM_TRA_1PNPDE20100316_041246_000000472087_00405_42042_6690.N1	16-MAR-2010 04:12:46	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	42042	No
58	GOM_TRA_1PNPDE20100316_041814_000000592087_00405_42042_6691.N1	16-MAR-2010 04:18:14	Bright	59.000	60	7Bet UMi	2.0810	3950.0	118	42042	No
59	GOM_TRA_1PNPDE20100316_042220_000000442087_00405_42042_6691.N1	16-MAR-2010 04:22:20	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	42042	Yes
60	GOM_TRA_1PNPDE20100316_042815_000000382087_00405_42042_6692.N1	16-MAR-2010 04:28:15	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	42042	No
61	GOM_TRA_1PNPDE20100316_043127_000000352087_00405_42042_6693.N1	16-MAR-2010 04:31:27	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	42042	No
62	GOM_TRA_1PNPDE20100316_043301_000000392087_00405_42042_6694.N1	16-MAR-2010 04:33:01	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	42042	No
63	GOM_TRA_1PNPDE20100316_043444_000000352087_00405_42042_6695.N1	16-MAR-2010 04:34:44	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	42042	No
64	GOM_TRA_1PNPDE20100316_044304_000000512087_00405_42042_6696.N1	16-MAR-2010 04:43:04	Twi_and_stray	51.000	11	53Alp Aql	0.76500	8000.0	102	42042	No
65	GOM_TRA_1PNPDE20100316_045313_000000472087_00405_42042_6697.N1	16-MAR-2010 04:53:13	Dark	47.000	155	41Pi Sgr	2.9000	6600.0	94	42042	No
66	GOM_TRA_1PNPDE20100316_045516_000000492087_00405_42042_6698.N1	16-MAR-2010 04:55:16	Dark	49.000	57	34Sig Sgr	2.0660	26000.	98	42042	No
67	GOM_TRA_1PNPDE20100316_045638_000000512087_00405_42042_6699.N1	16-MAR-2010 04:56:38	Dark	51.000	137	22Lam Sgr	2.8240	4400.0	102	42042	No
68	GOM_TRA_1PNPDE20100316_045843_000000552087_00405_42042_6700.N1	16-MAR-2010 04:58:43	Dark	54.500	38	20Eps Sgr	1.8360	11000.	109	42042	No
69	GOM_TRA_1PNPDE20100316_050444_000000452087_00406_42043_6701.N1	16-MAR-2010 05:04:44	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	42043	No
70	GOM_TRA_1PNPDE20100316_051111_000000462087_00406_42043_6702.N1	16-MAR-2010 05:11:11	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	42043	No
71	GOM_TRA_1PNPDE20100316_051307_000000482087_00406_42043_6703.N1	16-MAR-2010 05:13:07	Dark	47.500	78	Alp Lup	2.3040	28000.	95	42043	No

72	GOM_TRA_1PNPDE20100316_051433_000000522087_00406_42043_6704.N1	16-MAR-2010 05:14:33	Dark	52.000	81	Eta Cen	2.3560	28000.	104	42043	No
73	GOM_TRA_1PNPDE20100316_051741_000000622087_00406_42043_6705.N1	16-MAR-2010 05:17:41	Straylight	61.500	54	5The Cen	2.0550	4500.0	123	42043	No
74	GOM_TRA_1PNPDE20100316_051932_000000502087_00406_42043_6706.N1	16-MAR-2010 05:19:32	Straylight	49.500	123	Iot Cen	2.7500	10200.	99	42043	No
75	GOM_TRA_1PNPDE20100316_052521_000000542087_00406_42043_6707.N1	16-MAR-2010 05:25:21	Straylight	53.500	106	9Bet Crv	2.6480	5600.0	107	42043	No
76	GOM_TRA_1PNPDE20100316_052740_000000512087_00406_42043_6708.N1	16-MAR-2010 05:27:40	Twi_and_stray	51.000	100	4Gam Crv	2.5800	13100.	102	42043	No
77	GOM_TRA_1PNPDE20100316_053919_000000382087_00406_42043_6709.N1	16-MAR-2010 05:39:19	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	42043	No
78	GOM_TRA_1PNPDE20100316_054705_000000392087_00406_42043_6710.N1	16-MAR-2010 05:47:05	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42043	No
79	GOM_TRA_1PNPDE20100316_055016_000000562087_00406_42043_6711.N1	16-MAR-2010 05:50:16	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	42043	No
80	GOM_TRA_1PNPDE20100316_055146_000000422087_00406_42043_6712.N1	16-MAR-2010 05:51:46	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	42043	No
81	GOM_TRA_1PNPDE20100316_055321_000000462087_00406_42043_6713.N1	16-MAR-2010 05:53:21	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	42043	No
82	GOM_TRA_1PNPDE20100316_055850_000000592087_00406_42043_6714.N1	16-MAR-2010 05:58:50	Bright	59.000	60	7Bet UMi	2.0810	3950.0	118	42043	No
83	GOM_TRA_1PNPDE20100316_060255_000000202087_00406_42043_6715.N1	16-MAR-2010 06:02:55	Twi_and_stray	20.000	119	14Eta Dra	2.7270	4700.0	40	42043	No
84	GOM_TRA_1PNPDE20100316_202312_000000622087_00415_42052_6840.N1	16-MAR-2010 20:23:12	Straylight	61.500	54	5The Cen	2.0550	4500.0	123	42052	Yes
85	GOM_TRA_1PNPDE20100316_202501_000000492087_00415_42052_6841.N1	16-MAR-2010 20:25:01	Straylight	48.500	123	Iot Cen	2.7500	10200.	97	42052	No
86	GOM_TRA_1PNPDE20100316_203046_000000542087_00415_42052_6842.N1	16-MAR-2010 20:30:46	Straylight	53.500	106	9Bet Crv	2.6480	5600.0	107	42052	No
87	GOM_TRA_1PNPDE20100316_203305_000000502087_00415_42052_6843.N1	16-MAR-2010 20:33:05	Twi_and_stray	50.000	100	4Gam Crv	2.5800	13100.	100	42052	No
88	GOM_TRA_1PNPDE20100316_204442_000000382087_00415_42052_6844.N1	16-MAR-2010 20:44:42	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	42052	No
89	GOM_TRA_1PNPDE20100316_205226_000000402087_00415_42052_6845.N1	16-MAR-2010 20:52:26	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	42052	No
90	GOM_TRA_1PNPDE20100316_205537_000000372087_00415_42052_6846.N1	16-MAR-2010 20:55:37	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	42052	No
91	GOM_TRA_1PNPDE20100316_205706_000000402087_00415_42052_6847.N1	16-MAR-2010 20:57:06	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	42052	No
92	GOM_TRA_1PNPDE20100316_205839_000000462087_00415_42052_6848.N1	16-MAR-2010 20:58:39	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	42052	No
93	GOM_TRA_1PNPDE20100316_210410_000000432087_00415_42052_6849.N1	16-MAR-2010 21:04:10	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	42052	No
94	GOM_TRA_1PNPDE20100316_210813_000000492087_00415_42052_6850.N1	16-MAR-2010 21:08:13	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	42052	No
95	GOM_TRA_1PNPDE20100316_211727_000000392087_00415_42052_6851.N1	16-MAR-2010 21:17:27	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	42052	No
96	GOM_TRA_1PNPDE20100316_211901_000000372087_00415_42052_6852.N1	16-MAR-2010 21:19:01	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	42052	No
97	GOM_TRA_1PNPDE20100316_212045_000000352087_00415_42052_6853.N1	16-MAR-2010 21:20:45	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	42052	No
98	GOM_TRA_1PNPDE20100316_212908_000000532087_00415_42052_6854.N1	16-MAR-2010 21:29:08	Twi_and_stray	52.500	11	53Alp Aql	0.76500	8000.0	105	42052	No
99	GOM_TRA_1PNPDE20100316_213921_000000472087_00415_42052_6864.N1	16-MAR-2010 21:39:21	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	42052	No
100	GOM_TRA_1PNPDE20100316_214123_000000482087_00415_42052_6865.N1	16-MAR-2010 21:41:23	Dark	47.500	57	34Sig Sgr	2.0660	26000.	95	42052	No
101	GOM_TRA_1PNPDE20100316_214248_000000582087_00415_42052_6866.N1	16-MAR-2010 21:42:48	Dark	57.500	137	22Lam Sgr	2.8240	4400.0	115	42052	No
102	GOM_TRA_1PNPDE20100316_214452_000000472087_00415_42052_6867.N1	16-MAR-2010 21:44:52	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	42052	No
103	GOM_TRA_1PNPDE20100316_215050_000000432087_00416_42053_6868.N1	16-MAR-2010 21:50:50	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	42053	No
104	GOM_TRA_1PNPDE20100316_215715_000000452087_00416_42053_6869.N1	16-MAR-2010 21:57:15	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	42053	No
105	GOM_TRA_1PNPDE20100316_215914_000000452087_00416_42053_6870.N1	16-MAR-2010 21:59:14	Dark	45.000	78	Alp Lup	2.3040	28000.	90	42053	No
106	GOM_TRA_1PNPDE20100316_220042_000000502087_00416_42053_6871.N1	16-MAR-2010 22:00:42	Dark	49.500	81	Eta Cen	2.3560	28000.	99	42053	No
107	GOM_TRA_1PNPDE20100316_220349_000000622087_00416_42053_6872.N1	16-MAR-2010 22:03:49	Straylight	61.500	54	5The Cen	2.0550	4500.0	123	42053	No
108	GOM_TRA_1PNPDE20100316_220537_000000492087_00416_42053_6873.N1	16-MAR-2010 22:05:37	Straylight	49.000	123	Iot Cen	2.7500	10200.	98	42053	No
109	GOM_TRA_1PNPDE20100316_221123_000000552087_00416_42053_6874.N1	16-MAR-2010 22:11:23	Straylight	55.000	106	9Bet Crv	2.6480	5600.0	110	42053	No
110	GOM_TRA_1PNPDE20100316_221341_000000522087_00416_42053_6875.N1	16-MAR-2010 22:13:41	Twi_and_stray	52.000	100	4Gam Crv	2.5800	13100.	104	42053	No
111	GOM_TRA_1PNPDE20100316_222518_000000392087_00416_42053_6876.N1	16-MAR-2010 22:25:18	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	42053	No
112	GOM_TRA_1PNPDE20100316_223301_000000382087_00416_42053_6877.N1	16-MAR-2010 22:33:01	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	42053	No
113	GOM_TRA_1PNPDE20100316_223613_000000382087_00416_42053_6878.N1	16-MAR-2010 22:36:13	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	42053	No
114	GOM_TRA_1PNPDE20100316_223742_000000392087_00416_42053_6879.N1	16-MAR-2010 22:37:42	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	42053	No
115	GOM_TRA_1PNPDE20100316_223914_000000462087_00416_42053_6880.N1	16-MAR-2010 22:39:14	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	42053	No
116	GOM_TRA_1PNPDE20100316_224445_000000402087_00416_42053_6881.N1	16-MAR-2010 22:44:45	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	42053	No
117	GOM_TRA_1PNPDE20100316_224848_000000482087_00416_42053_6882.N1	16-MAR-2010 22:48:48	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	42053	No
118	GOM_TRA_1PNPDE20100316_225803_000000352087_00416_42053_6883.N1	16-MAR-2010 22:58:03	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	42053	No
119	GOM_TRA_1PNPDE20100316_225937_000000412087_00416_42053_6884.N1	16-MAR-2010 22:59:37	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	42053	No
120	GOM_TRA_1PNPDE20100316_230121_000000382087_00416_42053_6885.N1	16-MAR-2010 23:01:21	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	42053	No
121	GOM_TRA_1PNPDE20100316_230943_000000542087_00416_42053_6886.N1	16-MAR-2010 23:09:43	Twi_and_stray	54.000	11	53Alp Aql	0.76500	8000.0	108	42053	No
122	GOM_TRA_1PNPDE20100316_231957_000000472087_00416_42053_6888.N1	16-MAR-2010 23:19:57	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	42053	No
123	GOM_TRA_1PNPDE20100316_232200_000000472087_00416_42053_6889.N1	16-MAR-2010 23:22:00	Dark	46.500	57	34Sig Sgr	2.0660	26000.	93	42053	No
124	GOM_TRA_1PNPDE20100316_232325_000000592087_00416_42053_6890.N1	16-MAR-2010 23:23:25	Dark	59.000	137	22Lam Sgr	2.8240	4400.0	118	42053	No
125	GOM_TRA_1PNPDE20100316_232529_000000522087_00416_42053_6891.N1	16-MAR-2010 23:25:29	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	42053	No
126	GOM_TRA_1PNPDE20100316_233127_000000442087_00417_42054_6892.N1	16-MAR-2010 23:31:27	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	42054	No
127	GOM_TRA_1PNPDE20100316_233752_000000572087_00417_42054_6893.N1	16-MAR-2010 23:37:52	Dark	57.000	4	Alp1Cen	-0.010000	5800.0	114	42054	No
128	GOM_TRA_1PNPDE20100316_233951_000000482087_00417_42054_6894.N1	16-MAR-2010 23:39:51	Dark	48.000	78	Alp Lup	2.3040	28000.	96	42054	No
129	GOM_TRA_1PNPDE20100316_234118_000000502087_00417_42054_6895.N1	16-MAR-2010 23:41:18	Dark	50.000	81	Eta Cen	2.3560	28000.	100	42054	No
130	GOM_TRA_1PNPDE20100316_234425_000000592087_00417_42054_6896.N1	16-MAR-2010 23:44:25	Straylight	59.000	54	5The Cen	2.0550	4500.0	118	42054	No

131	GOM_TRA_1PNPDE20100316_234614_000000482087_00417_42054_6897.N1	16-MAR-2010 23:46:14	Straylight	47.500	123	Iot Cen	2.7500	10200.	95	42054	No
132	GOM_TRA_1PNPDE20100316_235159_000000522087_00417_42054_6898.N1	16-MAR-2010 23:51:59	Straylight	51.500	106	9Bet Crv	2.6480	5600.0	103	42054	No
133	GOM_TRA_1PNPDE20100316_235417_000000522087_00417_42054_6899.N1	16-MAR-2010 23:54:17	Twi_and_stray	52.000	100	4Gam Crv	2.5800	13100.	104	42054	No

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





4. Overview of dark signal processing per product

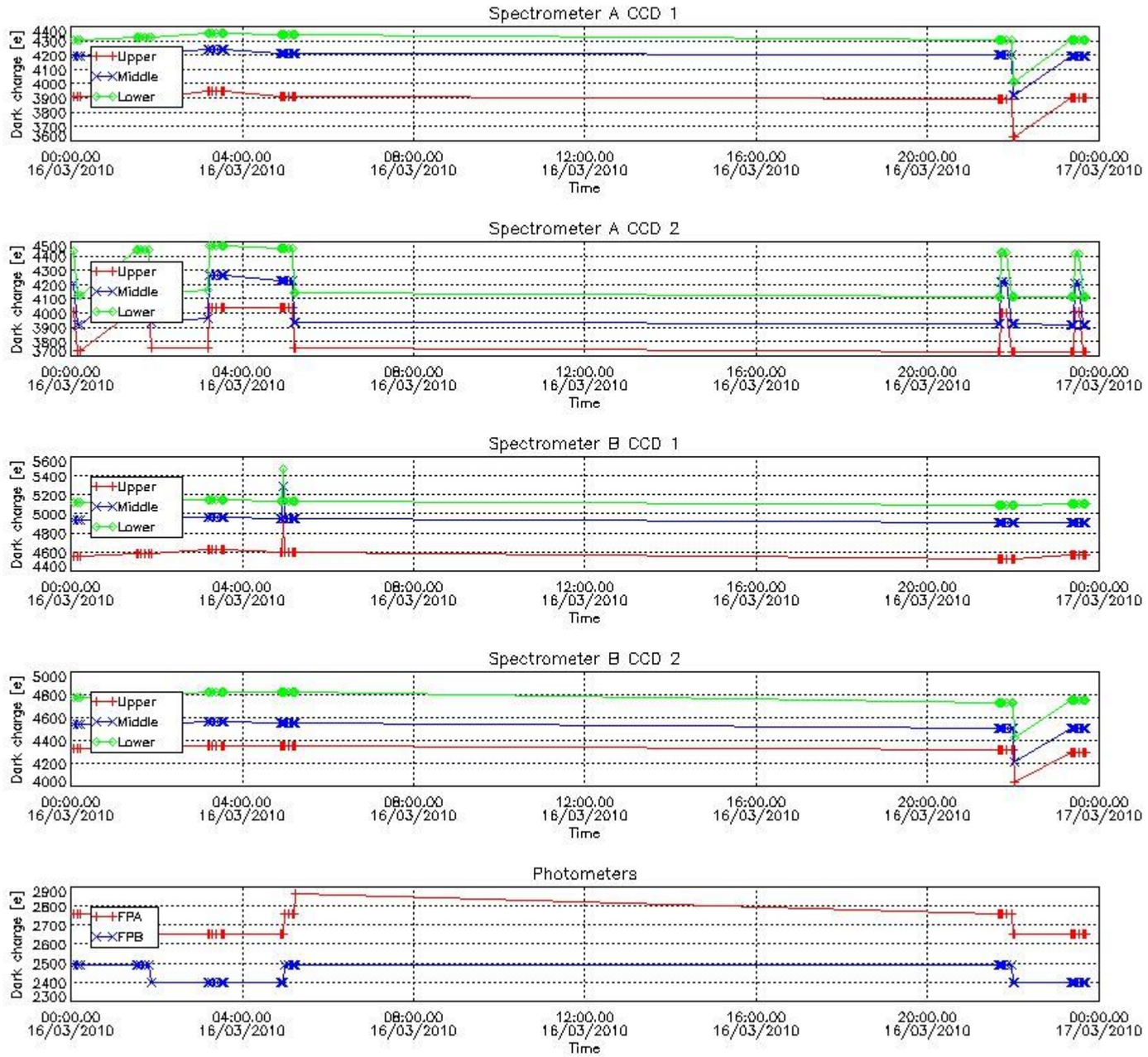
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100316_202312_000000622087_00415_42052_6840.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100316_202501_000000492087_00415_42052_6841.N1	DC map used
GOM_TRA_1PNPDE20100316_203046_000000542087_00415_42052_6842.N1	DC map used
GOM_TRA_1PNPDE20100316_203305_000000502087_00415_42052_6843.N1	DC map used
GOM_TRA_1PNPDE20100316_204442_000000382087_00415_42052_6844.N1	DC map used
GOM_TRA_1PNPDE20100316_205226_000000402087_00415_42052_6845.N1	DC map used
GOM_TRA_1PNPDE20100316_205537_000000372087_00415_42052_6846.N1	DC map used

GOM_TRA_1PNPDE20100316_205706_000000402087_00415_42052_6847.N1	DC map used
GOM_TRA_1PNPDE20100316_205839_000000462087_00415_42052_6848.N1	DC map used
GOM_TRA_1PNPDE20100316_210410_000000432087_00415_42052_6849.N1	DC map used
GOM_TRA_1PNPDE20100316_210813_000000492087_00415_42052_6850.N1	DC map used
GOM_TRA_1PNPDE20100316_211727_000000392087_00415_42052_6851.N1	DC map used
GOM_TRA_1PNPDE20100316_211901_000000372087_00415_42052_6852.N1	DC map used
GOM_TRA_1PNPDE20100316_212045_000000352087_00415_42052_6853.N1	DC map used
GOM_TRA_1PNPDE20100316_212908_000000532087_00415_42052_6854.N1	DC map used

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



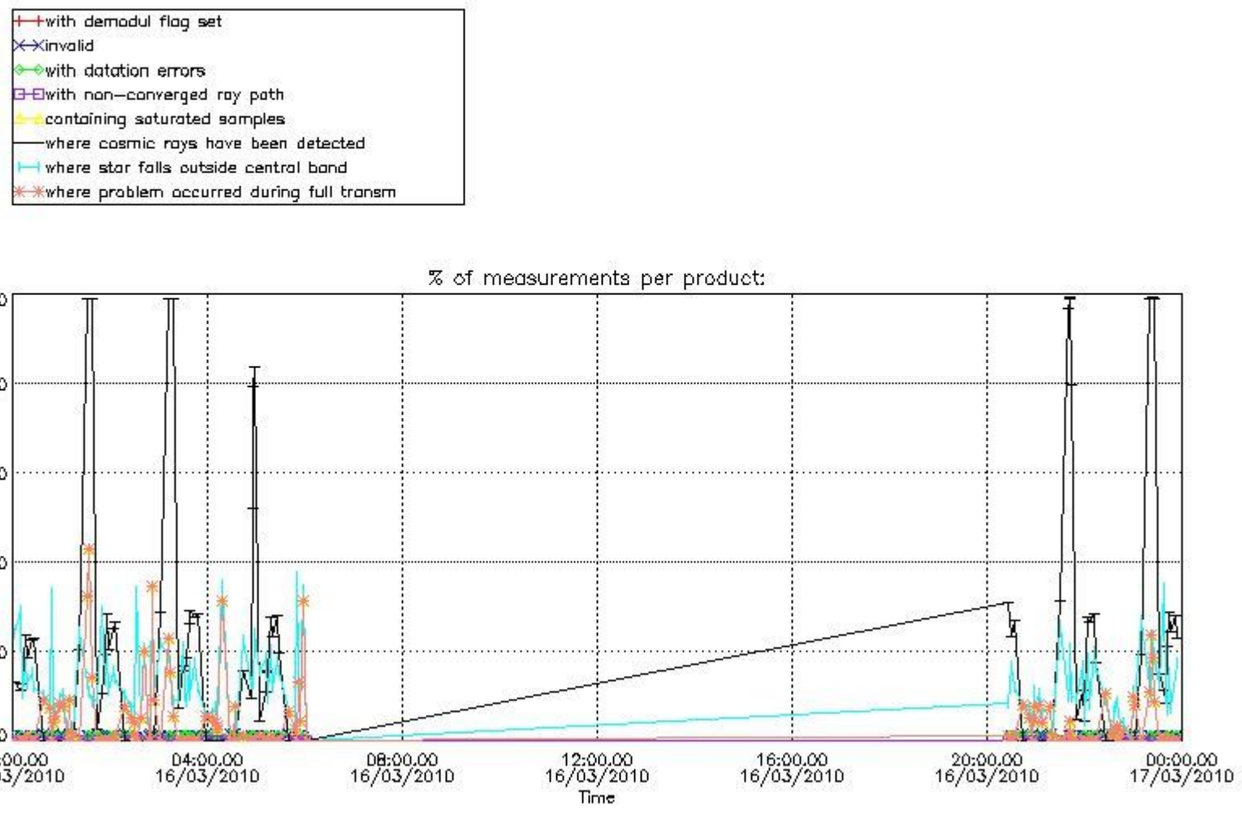
5. Demodulation flag and quality information monitoring

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.

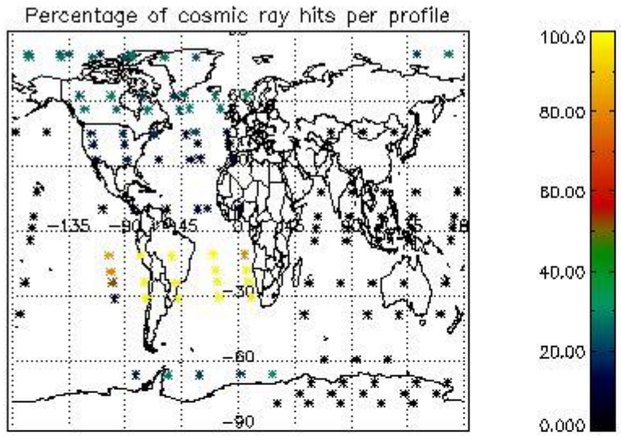
5.1 Percentage of products during reporting period with:

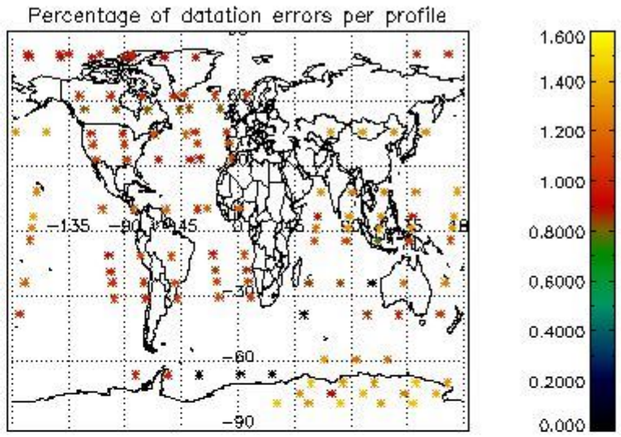
At least one measurement with demodulation flag set:	38.1679 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

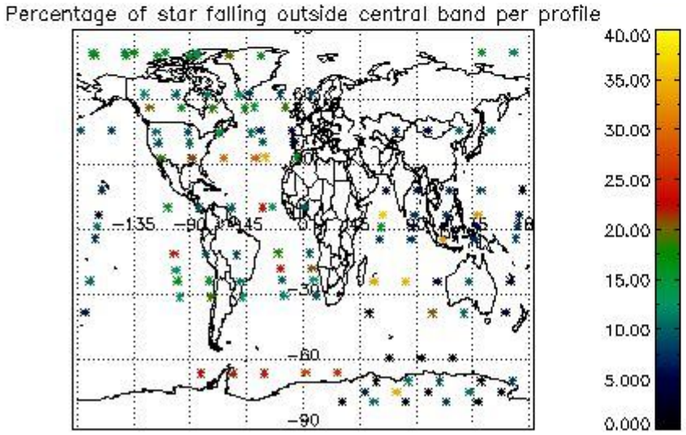
5.2 Plot quality information per product (time dependant)

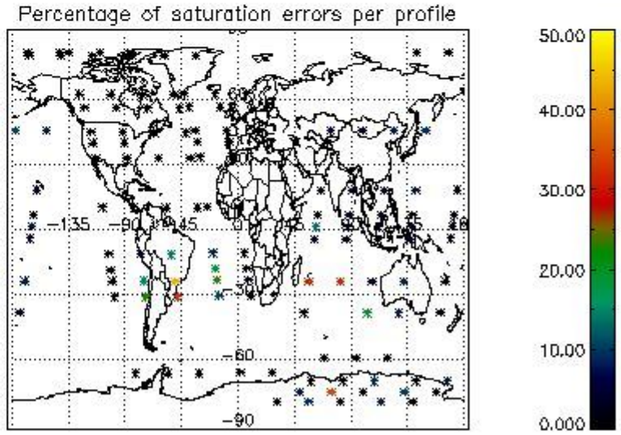


5.3 Plot quality information per product (world map)









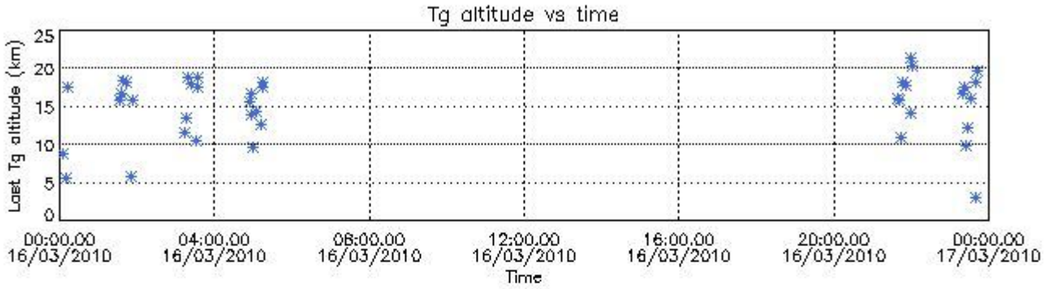
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

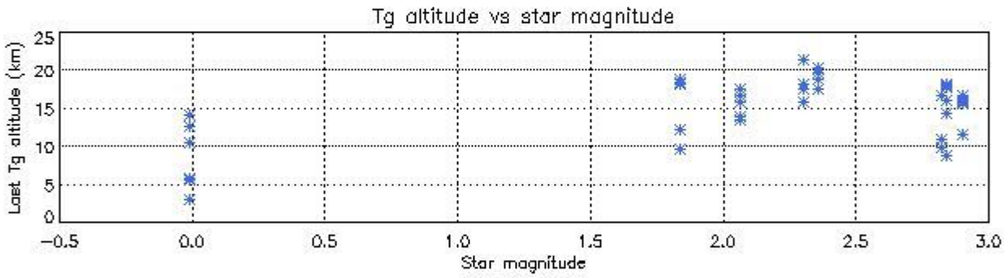
6.1 Statistics on tangent altitude lost:

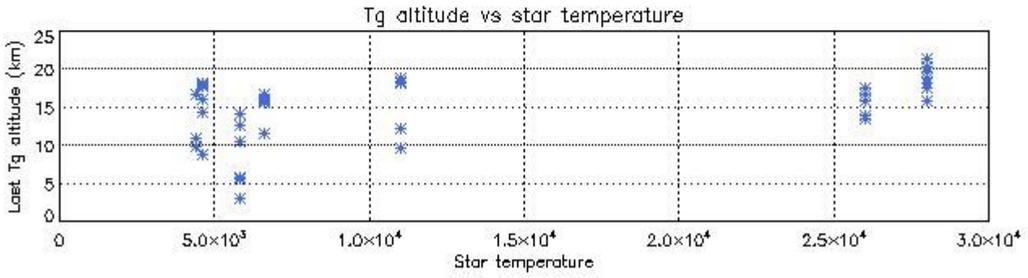
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.937	19.575	NaN
St. deviation:	4.2541	7.1462	NaN
Maximum:	21.328	43.535	NaN
Minimum:	2.9163	3.1300	NaN
Number of data:	40.000	58.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

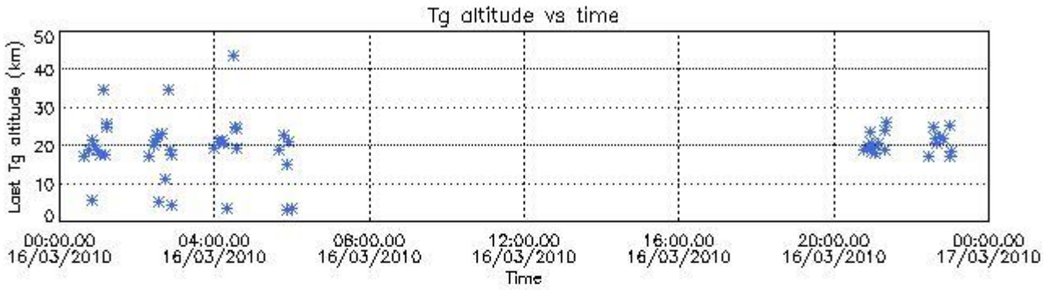


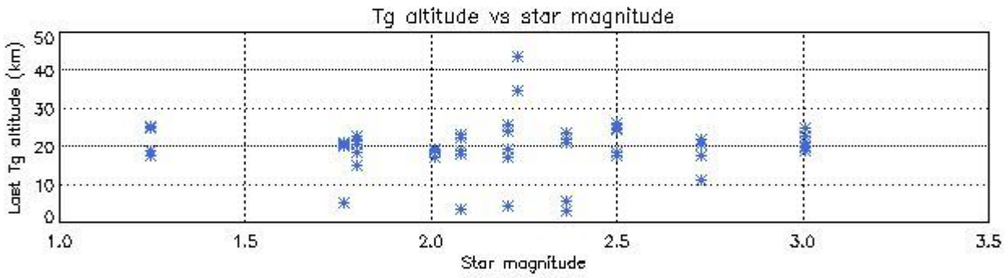


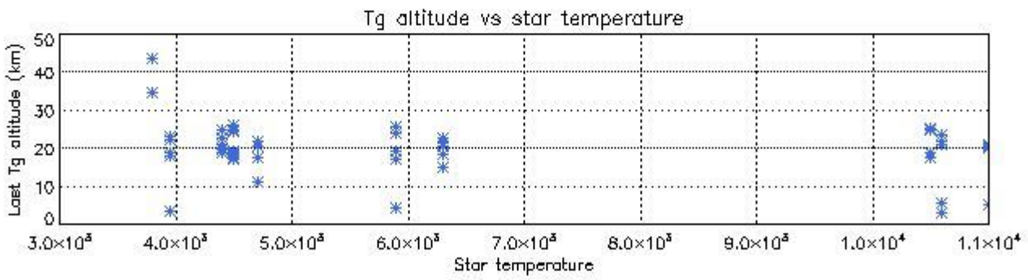


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





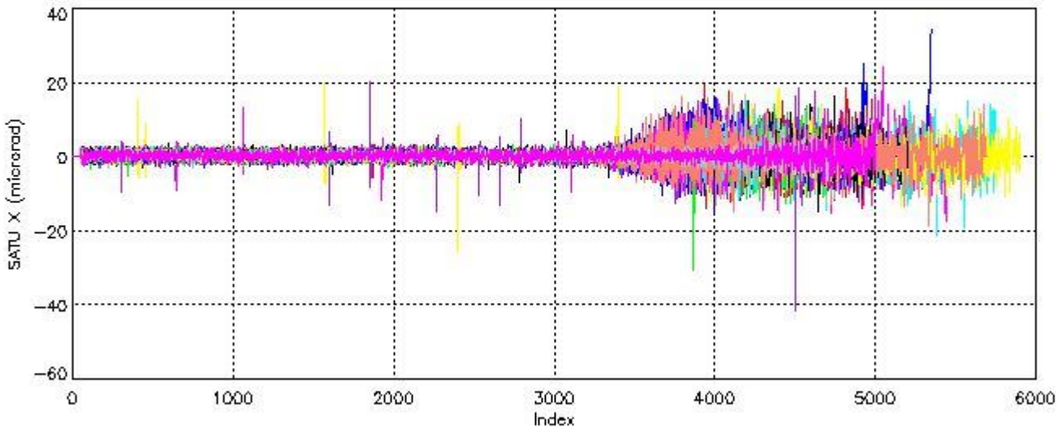


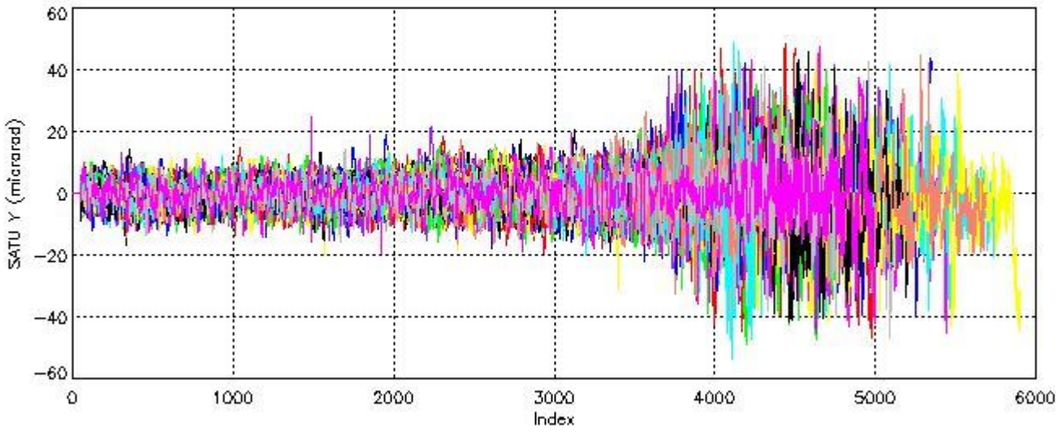
7. Star Acquisition and Tracking Unit (SATU)

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:	0.21081	-0.35740	0.15507	-0.29559
St. deviation:	0.62981	3.4818	0.55552	3.0900
Maximum:	15.400	14.500	3.9000	11.600
Minimum:	-9.6000	-16.800	-3.7000	-14.600

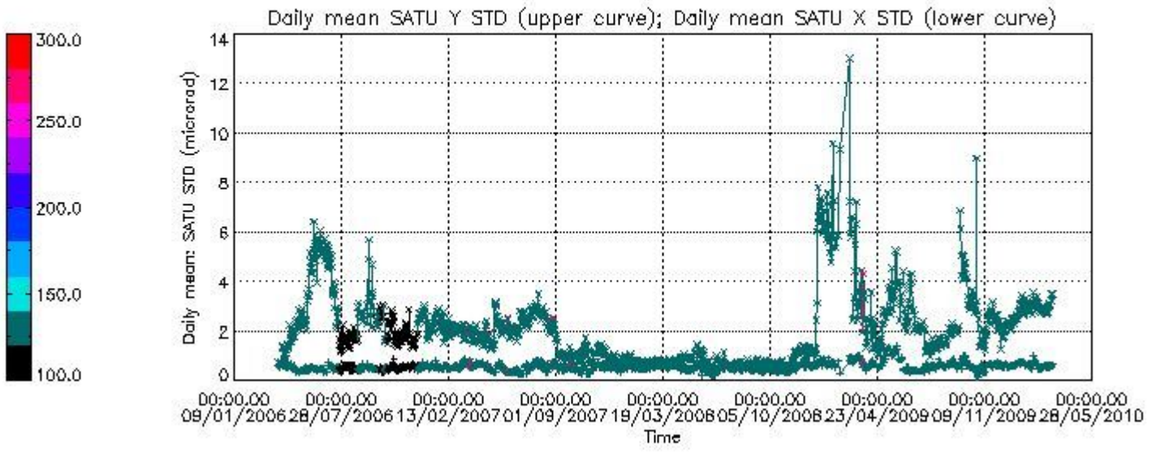
Number of data:	42400.	42400.	55900.	55900.

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.

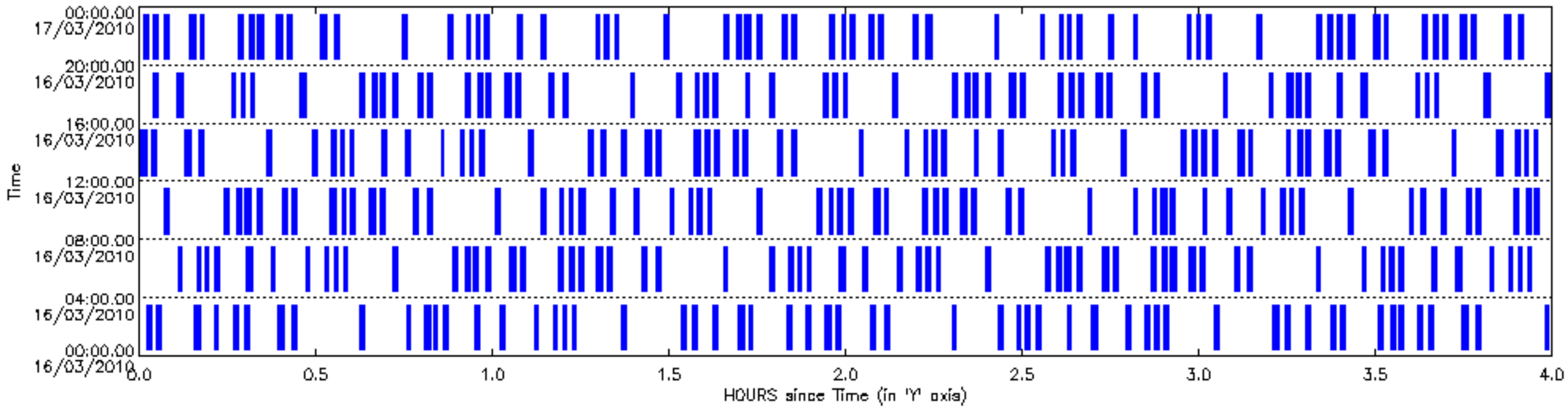
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

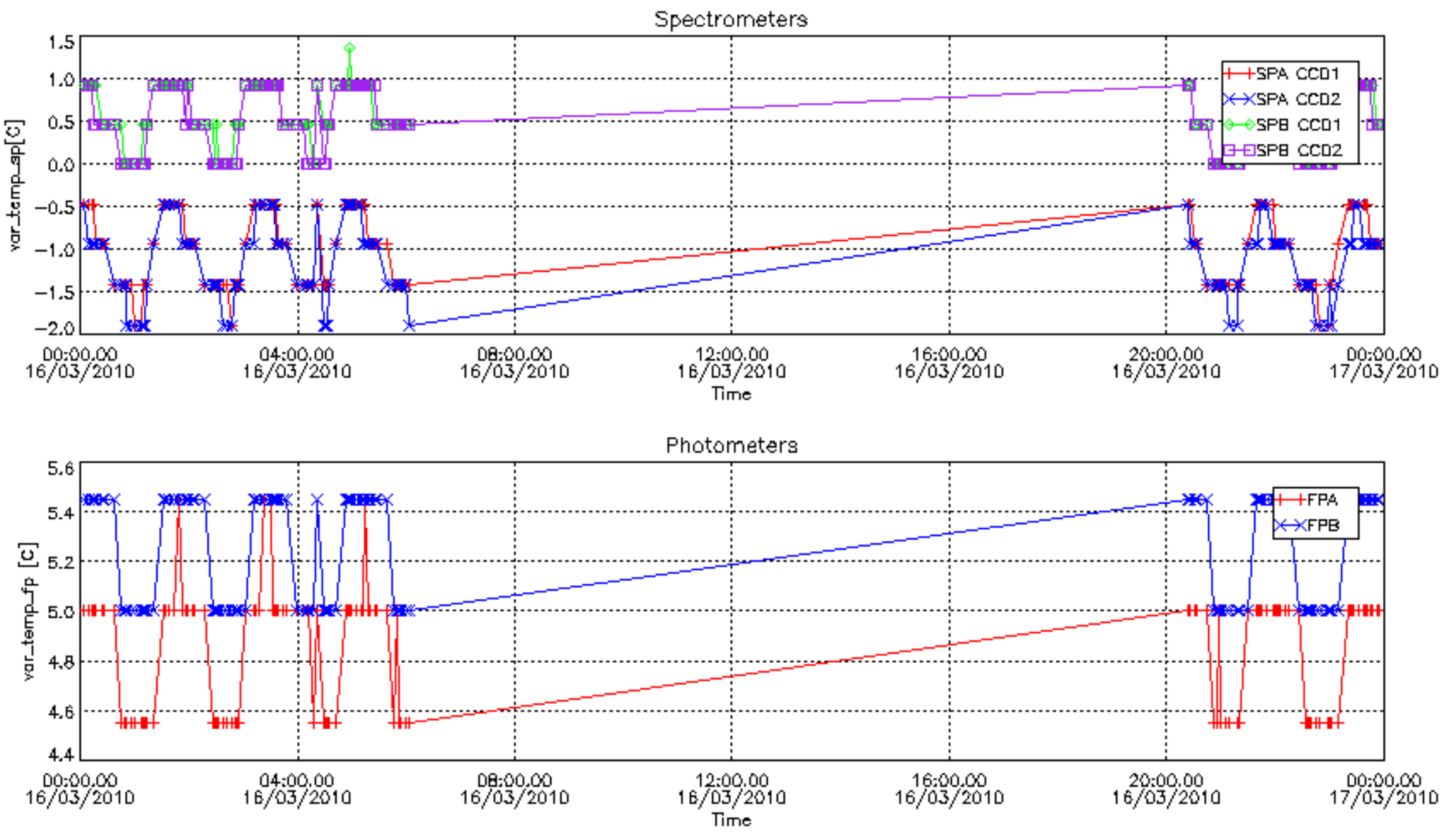


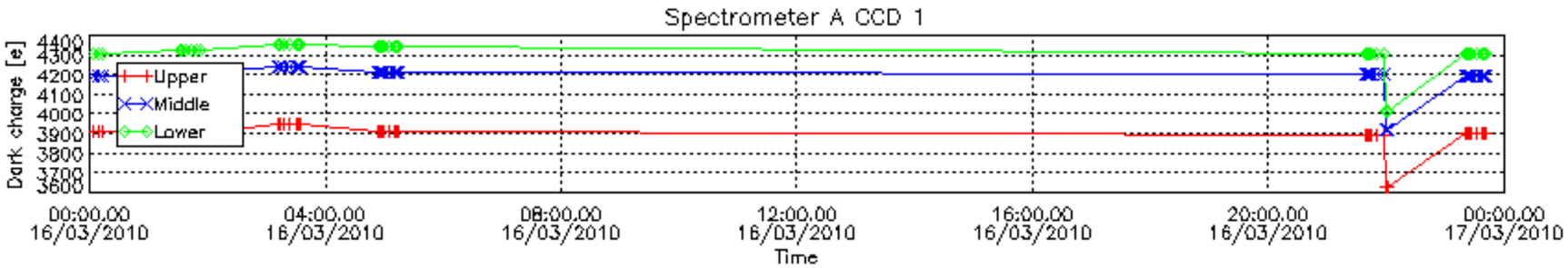
8. Auxiliary Data Files used for the production reported in section 2.4

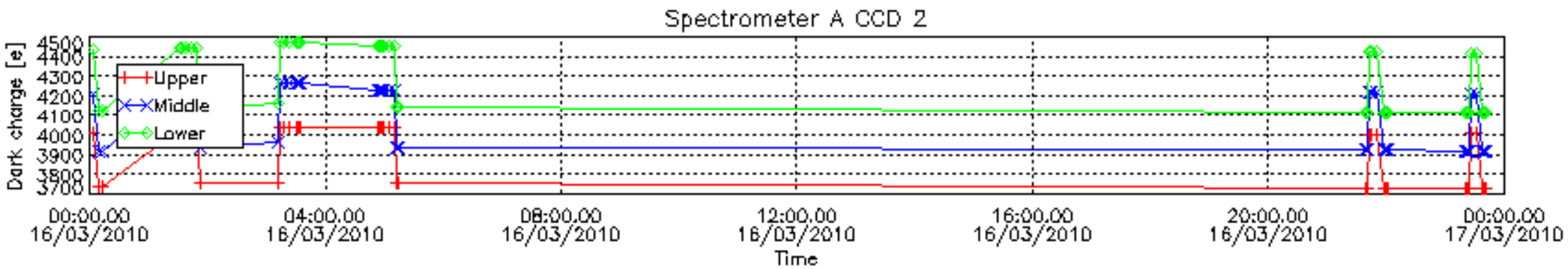
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

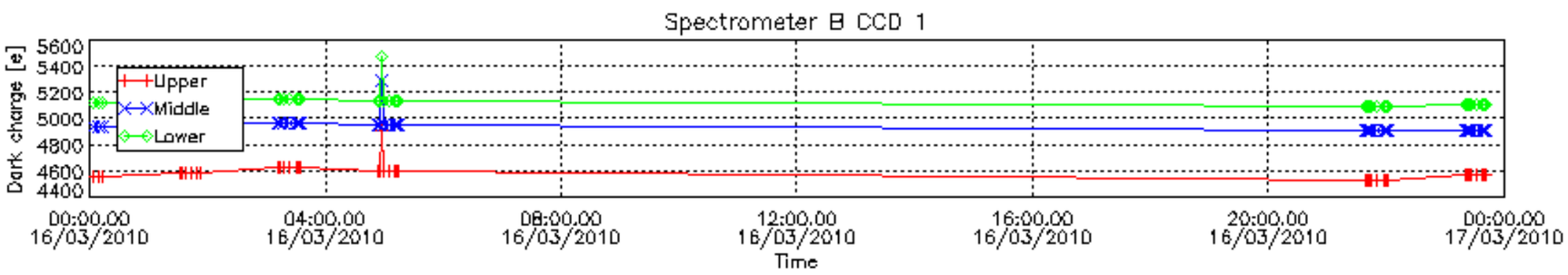
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-MAR-2010 00:02:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100309_114519_20100307_000000_20500101_000000	1	16-MAR-2010 00:02:54
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-MAR-2010 00:02:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-MAR-2010 00:02:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-MAR-2010 00:02:54
ECMWF_FILE	AUX_ECF_AXNECM20100315_052119_20100315_210000_20100316_090000	1	16-MAR-2010 00:02:54
ECMWF_FILE	AUX_ECF_AXNECM20100316_052117_20100316_150000_20100317_030000	84	16-MAR-2010 20:23:12
ECMWF_FILE	AUX_ECF_AXNECM20100316_054117_20100316_210000_20100317_090000	99	16-MAR-2010 21:39:21
OPTIONAL_ECMWF_FILE	MISSING	1	16-MAR-2010 00:02:54
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100315_234629_000057382087_00402_42039_9959.N1	1	16-MAR-2010 00:02:54
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_012726_000038252087_00403_42040_9960.N1	20	16-MAR-2010 01:32:00
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_023631_000060572087_00404_42041_9961.N1	36	16-MAR-2010 02:41:44
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_042247_000054192087_00405_42042_9962.N1	59	16-MAR-2010 04:22:20
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_201909_000041442087_00415_42052_9963.N1	84	16-MAR-2010 20:23:12
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_213332_000057382087_00415_42052_9964.N1	99	16-MAR-2010 21:39:21
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100316_231429_000057382087_00416_42053_9965.N1	122	16-MAR-2010 23:19:57

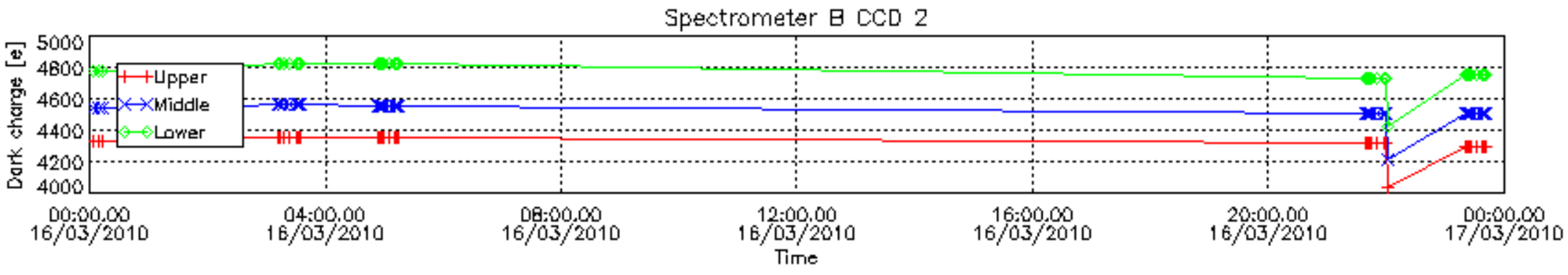

00:00.00
17/03/2010
20:00.00
16/03/2010
16:00.00
16/03/2010
12:00.00
16/03/2010
08:00.00
16/03/2010
04:00.00
16/03/2010
00:00.00
16/03/2010
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

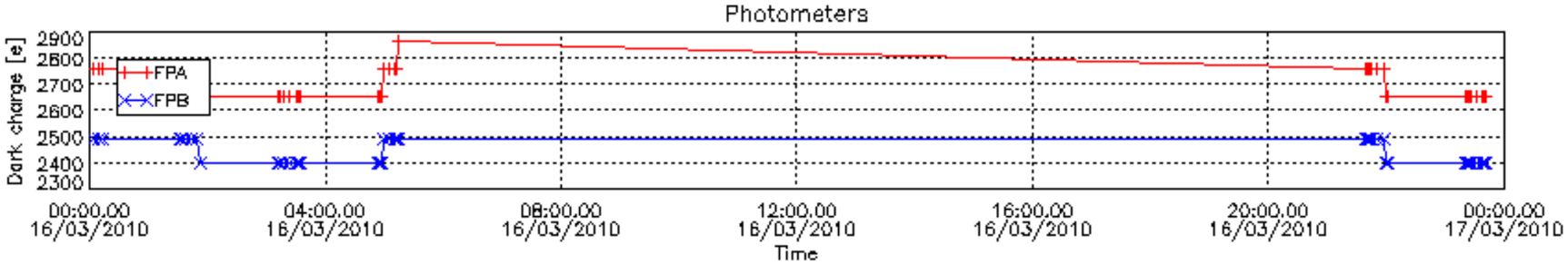

Spectrometers
var_temp_sp[C]
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
16/03/2010
04:00.00
16/03/2010
08:00.00
16/03/2010
12:00.00
16/03/2010
16:00.00
16/03/2010
20:00.00
16/03/2010
00:00.00
17/03/2010
Time
Photometers
var_temp_fp [C]
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
16/03/2010
04:00.00
16/03/2010
08:00.00
16/03/2010
12:00.00
16/03/2010
16:00.00
16/03/2010
20:00.00
16/03/2010
00:00.00
17/03/2010
Time

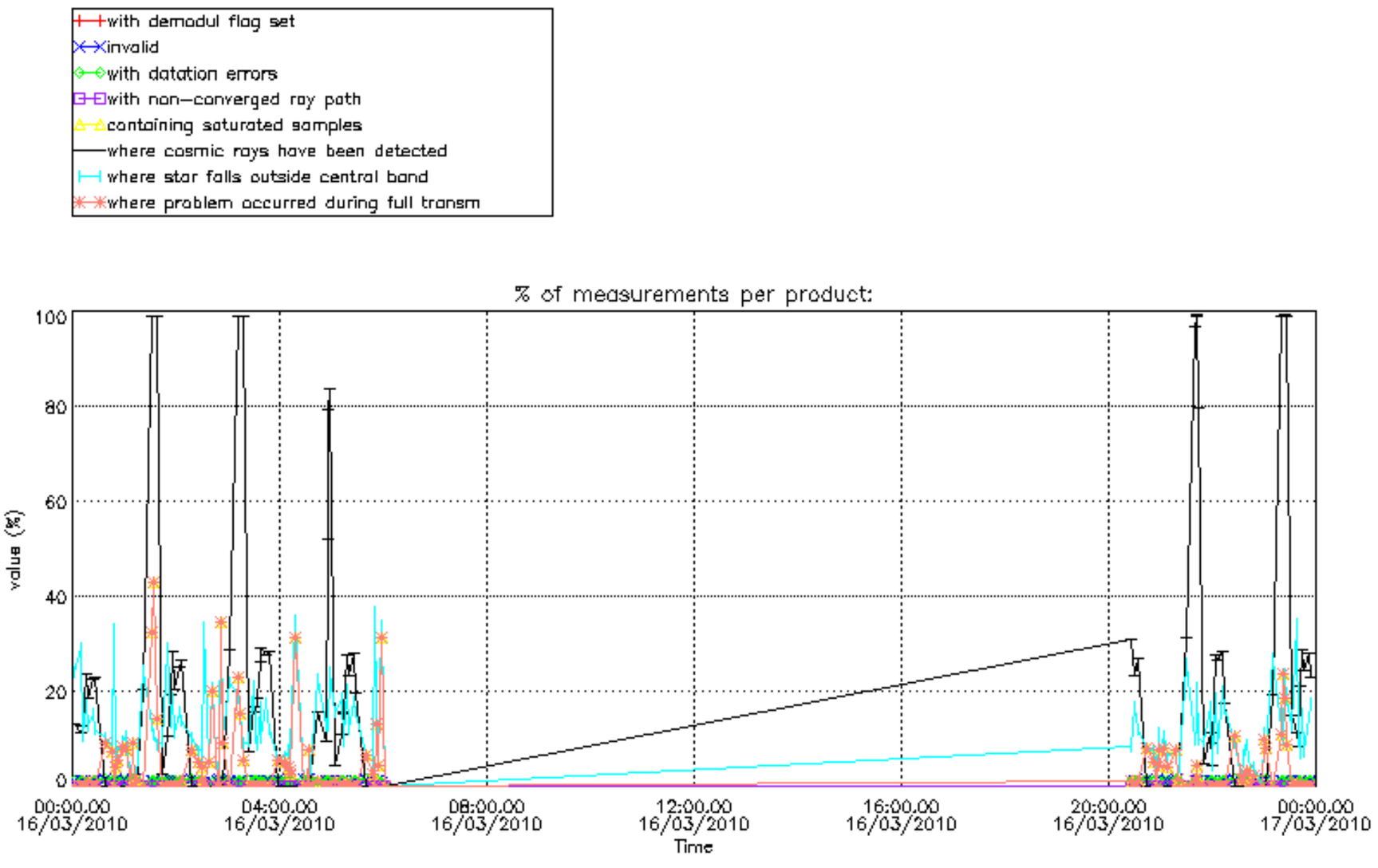

Spectrometer A CCD 1
Dark charge [e]
4400
4300
4200
4100
4000
3900
3800
3700
3600
Upper
Middle
Lower
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time

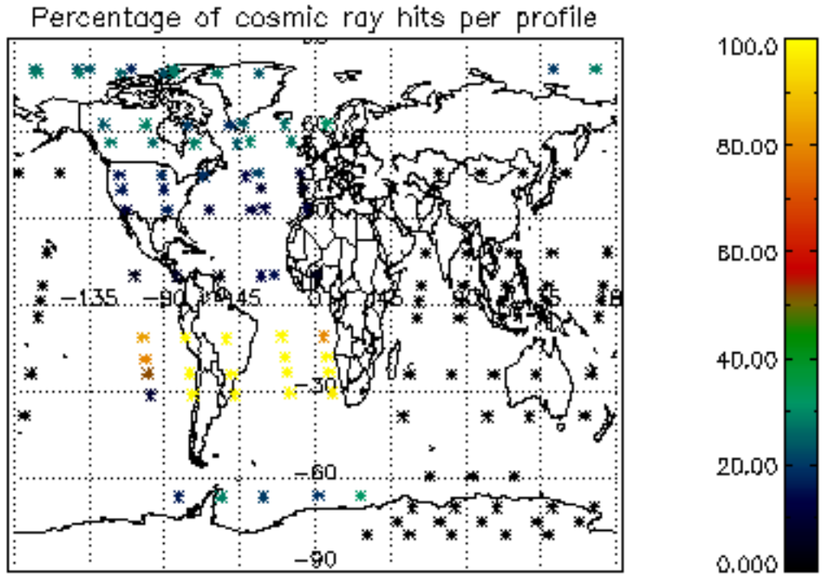

Spectrometer A CCD 2
Dark charge [e]
4500
4400
4300
4200
4100
4000
3900
3800
3700
Upper
Middle
Lower
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time

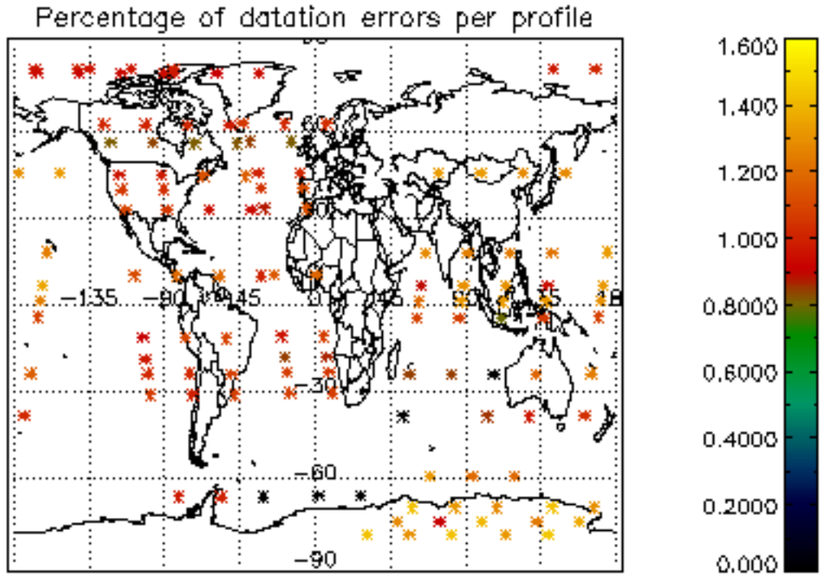

Spectrometer B CCD 1
Dark charge [e]
5600
5400
5200
5000
4800
4600
4400
Upper
Middle
Lower
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time

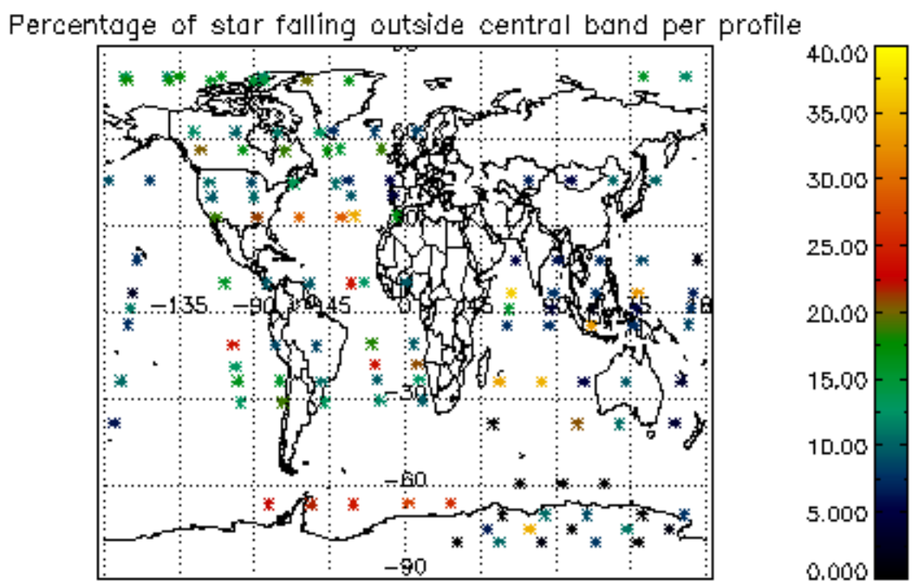

Spectrometer B CCD 2
Dark charge [e]
5000
4800
4600
4400
4200
4000
Upper
Middle
Lower
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time

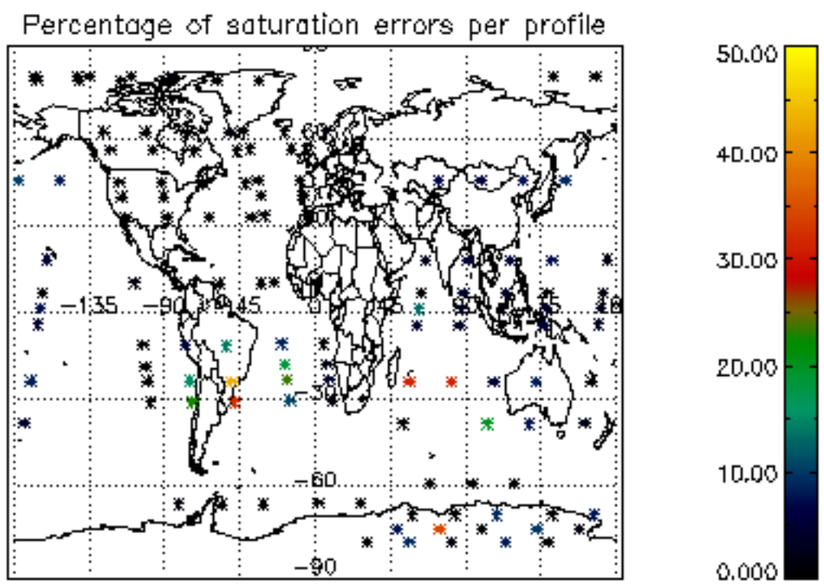

Photometers
Dark charge [e]
2900
2800
2700
2600
2500
2400
2300
FPA
FPB
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 16/03/2010
04:00.00 16/03/2010
08:00.00 16/03/2010
12:00.00 16/03/2010
16:00.00 16/03/2010
20:00.00 16/03/2010
00:00.00 17/03/2010
Time

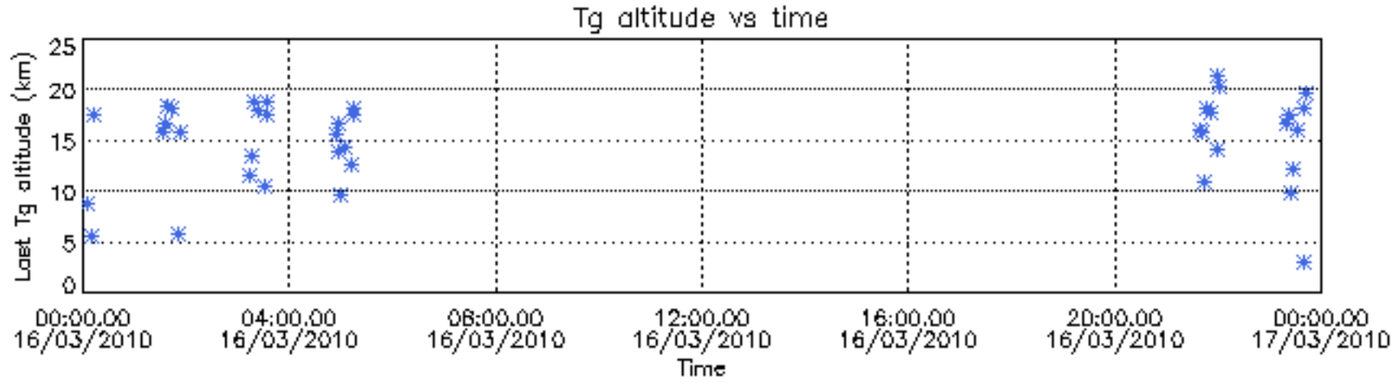

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
30
60
90

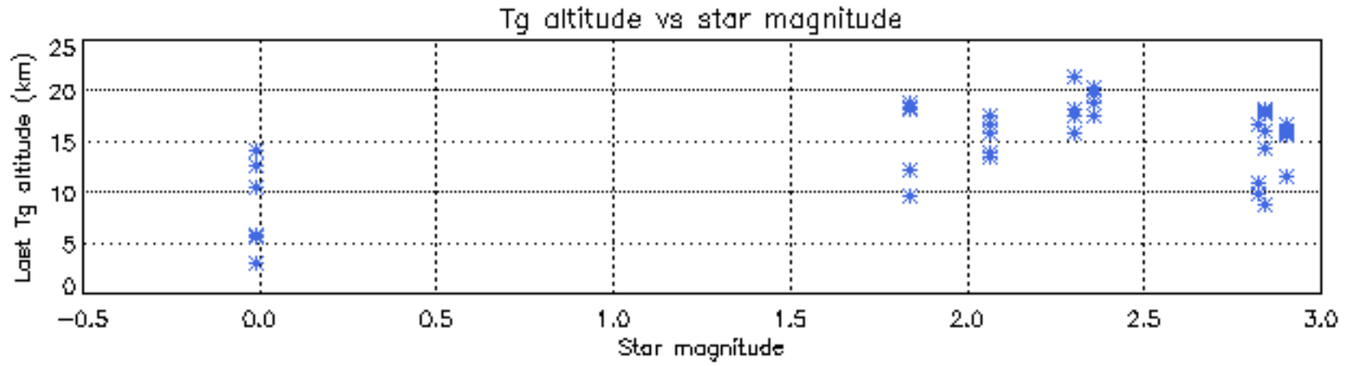

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−45
0
45
90
135
180
30
60
90

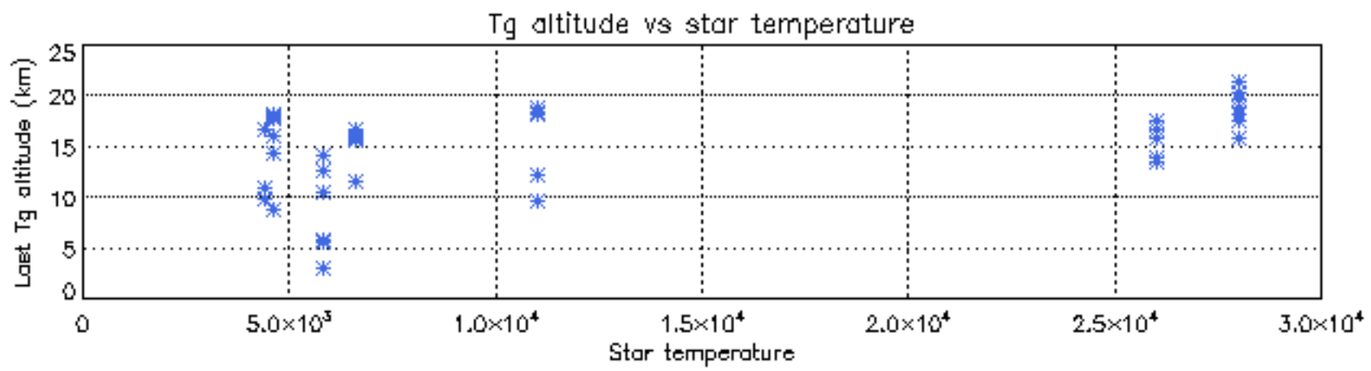

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
30
60
90


Percentage of saturation errors per profile
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−45
0
45
90
135
180
30
60
90

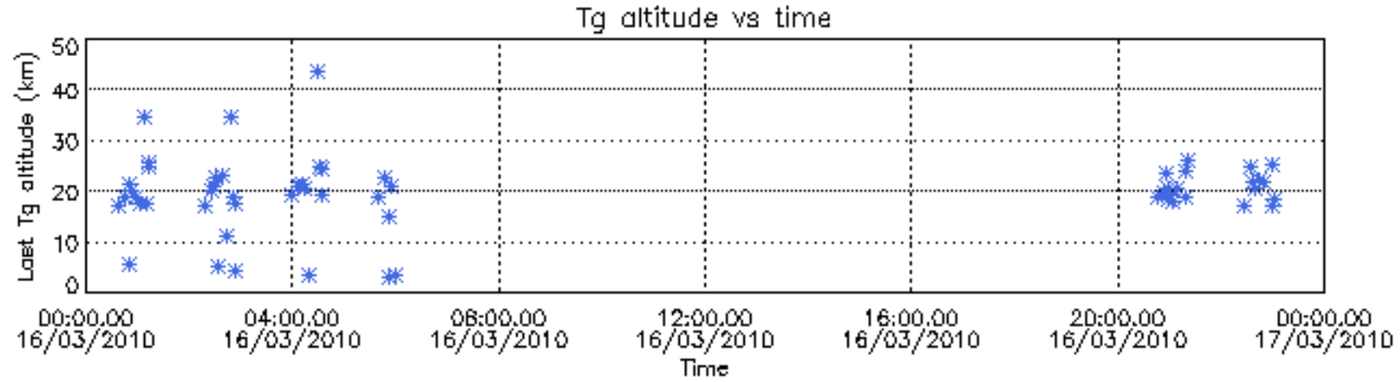
Tangent altitude at which the star is lost

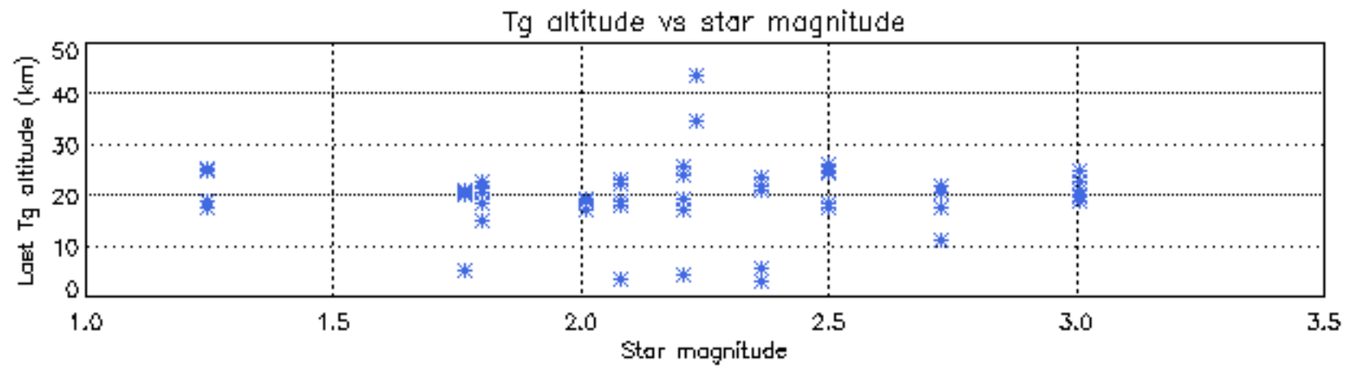


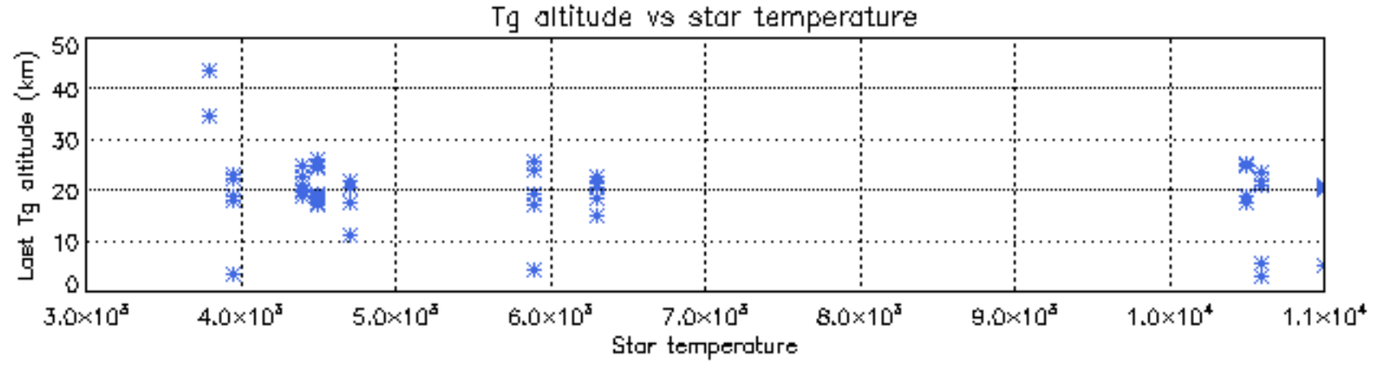


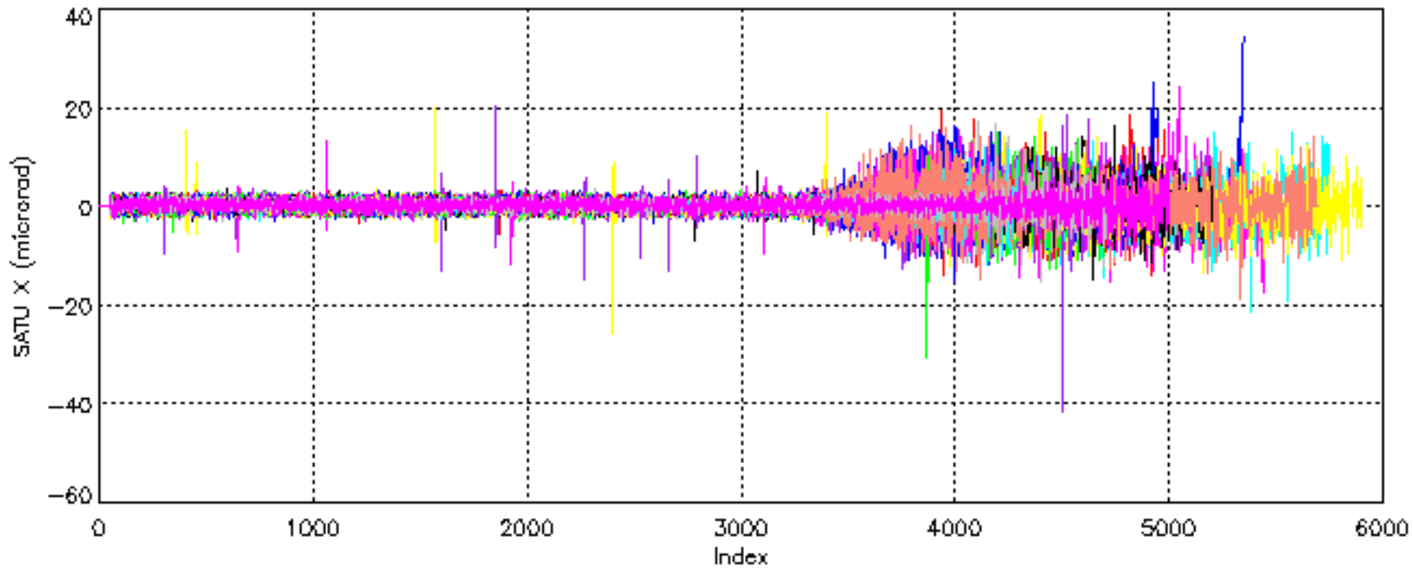


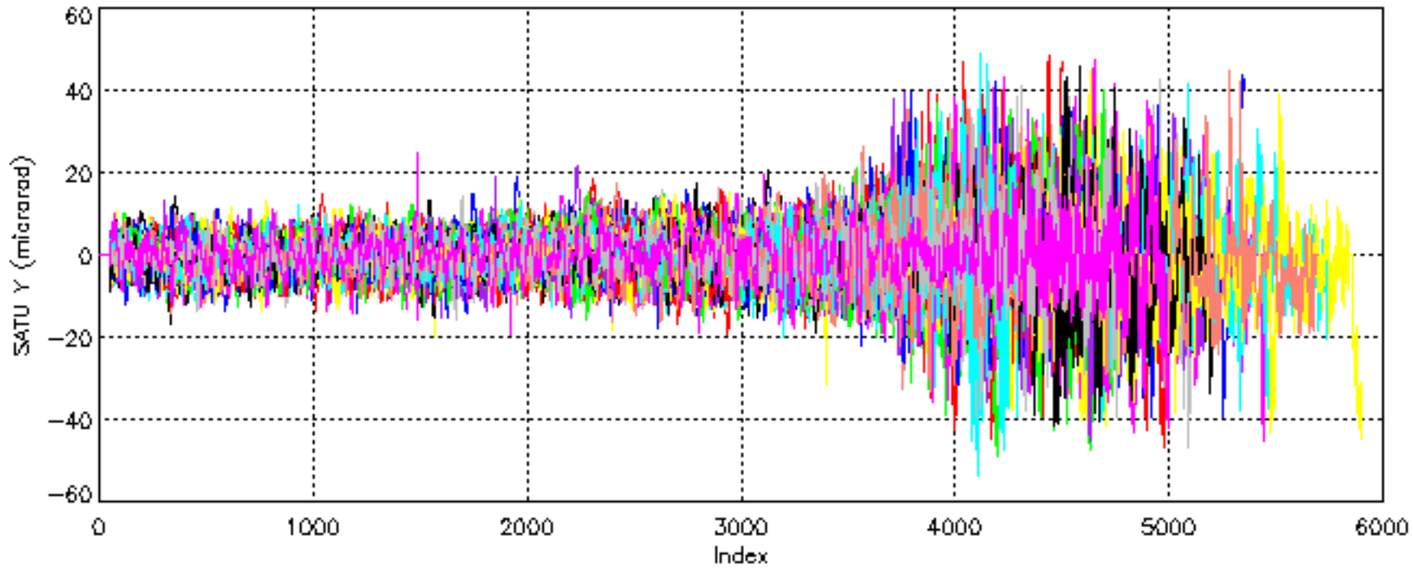
Tangent altitude at which the star is lost

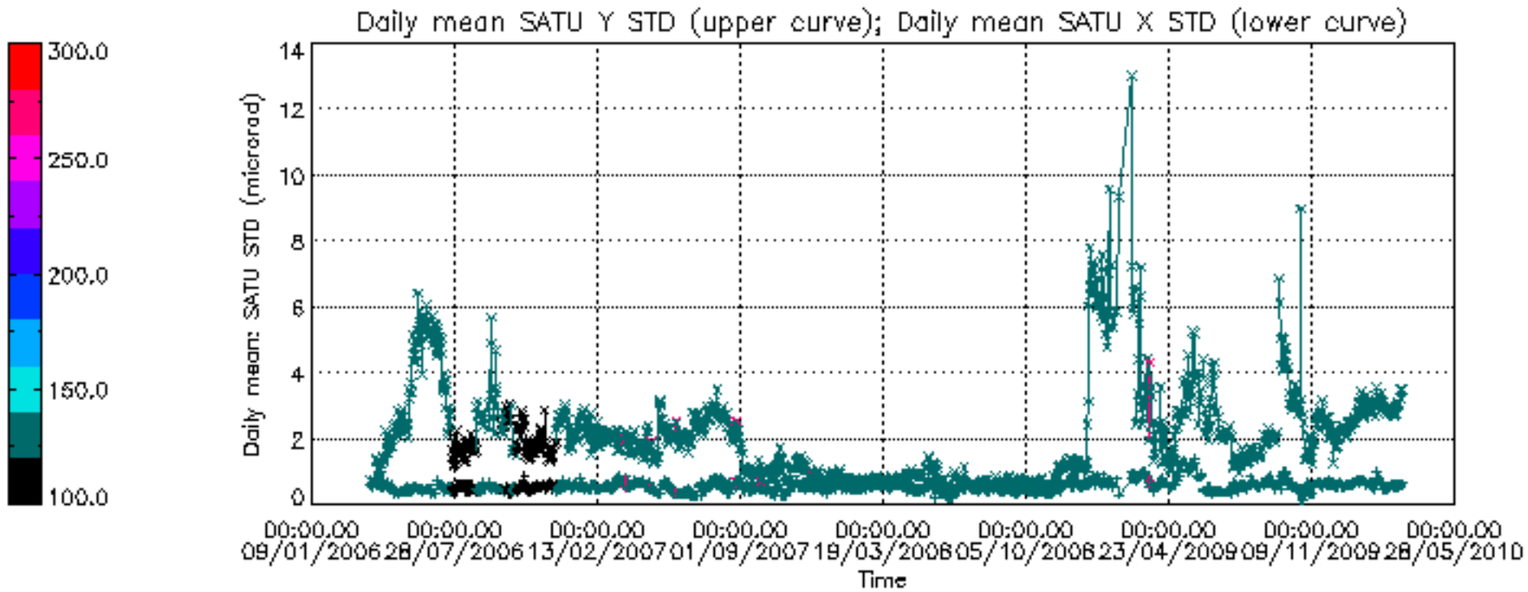







40
20
0
−20
−40
−60
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00 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
00:00.00 28/05/2010
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100301_010253_000094412087_00188_41825_9584.N1
1; -542.9; 01-MAR-2010 01:02:53; Dark ; 40.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 81; 0;41825
2; -357.0; 01-MAR-2010 01:05:59; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;41825
3; -187.3; 01-MAR-2010 01:08:48; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;41825
4; -1.4; 01-MAR-2010 01:11:54; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;41825
5; 156.2; 01-MAR-2010 01:14:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41826
6; 293.9; 01-MAR-2010 01:16:49; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;41826
7; 431.5; 01-MAR-2010 01:19:07; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41826
8; 510.7; 01-MAR-2010 01:20:26; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;41826
9; 617.8; 01-MAR-2010 01:22:13; Dark ; 46.0; 77; Eps Cen ; 2.30; 28000;occ; 92; 0;41826
10; 727.4; 01-MAR-2010 01:24:03; Dark ; 48.0; 26; Gam Cru ; 1.62; 2900;occ; 96; 0;41826
11; 811.4; 01-MAR-2010 01:25:27; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41826
12; 2124.3; 01-MAR-2010 01:47:20; Bright; 45.5; 22; 32Alp Leo ; 1.36; 15200;occ; 91; 0;41826
13; 2282.2; 01-MAR-2010 01:49:58; Bright; 46.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 93; 0;41826
14; 2819.5; 01-MAR-2010 01:58:55; Bright; 43.5; 174; 52Psi UMa ; 3.00; 4400;occ; 87; 0;41826
15; 2983.4; 01-MAR-2010 02:01:39; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;41826
16; 3062.9; 01-MAR-2010 02:02:58; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;41826
17; 3493.1; 01-MAR-2010 02:10:09; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;41826
18; 3775.4; 01-MAR-2010 02:14:51; Bright; 50.0; 119; 14Eta Dra ; 2.73; 4700;occ; 100; 0;41826
19; 4038.4; 01-MAR-2010 02:19:14; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;41826
20; 4211.9; 01-MAR-2010 02:22:08; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;41826
21; 4341.7; 01-MAR-2010 02:24:17; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;41826
22; 4797.1; 01-MAR-2010 02:31:53; Bright; 40.0; 168; 17Zet Aql ; 2.99; 11000;occ; 80; 0;41826
23; 5493.4; 01-MAR-2010 02:43:29; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;41826
24; 5679.6; 01-MAR-2010 02:46:35; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;41826
25; 5849.8; 01-MAR-2010 02:49:25; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;41826
26; 6192.6; 01-MAR-2010 02:55:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41826
27; 6331.1; 01-MAR-2010 02:57:27; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;41826
28; 6468.1; 01-MAR-2010 02:59:44; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41826
29; 6547.4; 01-MAR-2010 03:01:03; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41826
30; 6654.4; 01-MAR-2010 03:02:50; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41826
31; 6763.8; 01-MAR-2010 03:04:39; Dark ; 48.0; 26; Gam Cru ; 1.62; 2900;occ; 96; 0;41826
32; 6848.4; 01-MAR-2010 03:06:04; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41826
33; 8160.5; 01-MAR-2010 03:27:56; Bright; 44.5; 22; 32Alp Leo ; 1.36; 15200;occ; 89; 0;41826
34; 8317.8; 01-MAR-2010 03:30:33; Bright; 46.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 92; 0;41826
35; 8854.4; 01-MAR-2010 03:39:30; Bright; 44.0; 174; 52Psi UMa ; 3.00; 4400;occ; 88; 0;41826
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2; 2983.3; 01-MAR-2010 03:42:15; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;41827
3; 3062.7; 01-MAR-2010 03:43:34; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;41827
4; 3492.8; 01-MAR-2010 03:50:44; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41827
5; 3774.7; 01-MAR-2010 03:55:26; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41827
6; 4038.1; 01-MAR-2010 03:59:50; Bright; 47.0; 130; 23Bet Dra ; 2.80; 5800;occ; 94; 0;41827
7; 4212.4; 01-MAR-2010 04:02:44; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;41827
8; 4341.4; 01-MAR-2010 04:04:53; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;41827
9; 4797.4; 01-MAR-2010 04:12:29; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;41827
10; 5493.9; 01-MAR-2010 04:24:05; Dark ; 39.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 79; 0;41827
11; 5680.4; 01-MAR-2010 04:27:12; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;41827
12; 5850.6; 01-MAR-2010 04:30:02; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;41827
13; 6193.3; 01-MAR-2010 04:35:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41827
14; 6332.1; 01-MAR-2010 04:38:04; Dark ; 50.0; 131; Gam Lup ; 2.80; 26000;occ; 100; 0;41827
15; 6469.0; 01-MAR-2010 04:40:21; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;41827
16; 6547.8; 01-MAR-2010 04:41:39; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;41827
17; 6655.6; 01-MAR-2010 04:43:27; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41827
18; 6764.4; 01-MAR-2010 04:45:16; Dark ; 45.0; 26; Gam Cru ; 1.62; 2900;occ; 90; 0;41827
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  28; 6382.0; 04-MAR-2010 03:04:03; Dark  ;  49.0;  131;   Gam Lup  ; 2.80; 26000;occ;  98;   0;41869
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   9; 4812.3; 04-MAR-2010 04:18:29; Bright;  43.0;  168; 17Zet Aql  ; 2.99; 11000;occ;  86;   0;41870
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  21; 3443.6; 11-MAR-2010 00:14:22; Bright;  37.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  75;   0;41968
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  14; 5824.3; 14-MAR-2010 12:43:59; Dark  ;  51.5;   38; 20Eps Sgr  ; 1.84; 11000;occ; 103;   0;42018
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  22; 4305.2; 17-MAR-2010 00:40:13; Bright; 37.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 75;   0;42054
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  17; 6218.6; 17-MAR-2010 09:35:06; Dark  ;  44.5;  141;   Bet Ara  ; 2.84;  4600;occ;  89;   0;42059
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   5;  126.5; 22-MAR-2010 00:13:41; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42126
   6;  228.3; 22-MAR-2010 00:15:23; Dark  ;  42.5;  141;   Bet Ara  ; 2.84;  4600;occ;  85;   0;42126
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  14; 1462.9; 22-MAR-2010 00:35:58; Dark  ;  48.5;  171;  2Eps Crv  ; 3.00;  4250;occ;  97;   0;42126
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   7;  603.1; 22-MAR-2010 02:02:14; Dark  ;  56.0;    4;   Alp1Cen  ;-0.01;  5800;occ; 112;   0;42127
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  10;  963.3; 22-MAR-2010 02:08:14; Dark  ;  42.0;   64;   Gam Cen  ; 2.20; 10600;occ;  84;   0;42127
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  16; 2688.0; 22-MAR-2010 02:36:59; Bright;  37.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  75;   0;42127
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  13;  741.0; 22-MAR-2010 03:45:08; Dark  ;  45.5;   78;   Alp Lup  ; 2.30; 28000;occ;  91;   0;42128
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  15;  963.6; 22-MAR-2010 03:48:50; Dark  ;  39.5;   64;   Gam Cen  ; 2.20; 10600;occ;  79;   0;42128
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  14;  741.5; 22-MAR-2010 05:25:44; Dark  ;  45.5;   78;   Alp Lup  ; 2.30; 28000;occ;  91;   0;42129
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  21; 3377.5; 24-MAR-2010 01:45:14; Bright;  37.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  75;   0;42155
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  23; 3905.7; 24-MAR-2010 01:54:02; Bright;  53.0;   89;  5Alp Cep  ; 2.45;  8000;occ; 106;   0;42155
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   9; 2679.8; 24-MAR-2010 20:00:12; Bright;  53.5;  174; 52Psi UMa  ; 3.00;  4400;occ; 107;   0;42166
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  12; 3067.1; 24-MAR-2010 20:06:39; Bright;  45.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  91;   0;42166
  13; 3373.5; 24-MAR-2010 20:11:46; Bright;  42.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  85;   0;42166
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  17; 4310.6; 24-MAR-2010 20:27:23; Bright;  43.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  86;   0;42166
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  24; 6182.2; 24-MAR-2010 20:58:34; Dark  ;  48.5;   85;   Kap Sco  ; 2.41; 28000;occ;  97;   0;42167
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  23; 6810.1; 25-MAR-2010 08:53:14; Dark  ;  45.5;   78;   Alp Lup  ; 2.30; 28000;occ;  91;   0;42174
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   8; 2677.4; 25-MAR-2010 19:28:32; Bright;  37.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  74;   0;42180
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   6; 2964.0; 27-MAR-2010 10:07:05; Bright;  53.0;   36; 50Alp UMa  ; 1.80;  6300;occ; 106;   0;42203
   7; 3360.9; 27-MAR-2010 10:13:42; Bright;  40.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  81;   0;42203
   8; 3905.0; 27-MAR-2010 10:22:46; Bright;  38.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  76;   0;42203
   9; 4207.9; 27-MAR-2010 10:27:49; Bright;  44.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  89;   0;42203
  10; 4311.8; 27-MAR-2010 10:29:33; Bright;  40.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  80;   0;42203
  11; 4426.7; 27-MAR-2010 10:31:28; Bright;  41.5;   92; 53Eps Cyg  ; 2.50;  4500;occ;  83;   0;42203
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  13; 5670.0; 27-MAR-2010 10:52:11; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42203
  14; 5802.3; 27-MAR-2010 10:54:24; Dark  ;  55.5;   57; 34Sig Sgr  ; 2.07; 26000;occ; 111;   0;42203
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   6; 2963.8; 27-MAR-2010 11:47:41; Bright;  38.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  77;   0;42204
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   8; 3904.6; 27-MAR-2010 12:03:22; Bright;  34.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  69;   0;42204
   9; 4208.0; 27-MAR-2010 12:08:25; Bright;  42.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  84;   0;42204
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  12; 4991.4; 27-MAR-2010 12:21:29; Dark  ;  59.0;   11; 53Alp Aql  ; 0.76;  8000;occ; 118;   0;42204
  13; 5670.7; 27-MAR-2010 12:32:48; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42204
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   5; 2673.4; 27-MAR-2010 13:23:26; Bright;  38.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  77;   0;42205
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  20; 6832.3; 27-MAR-2010 14:32:45; Dark  ;  45.0;   78;   Alp Lup  ; 2.30; 28000;occ;  90;   0;42206
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  22; 7098.9; 27-MAR-2010 14:37:12; Dark  ;  52.0;   54;  5The Cen  ; 2.06;  4500;occ; 104;   0;42206
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   3; 1893.0; 27-MAR-2010 14:51:02; Bright;  47.0;  121; 29Gam Vir  ; 2.74;  7200;occ;  94;   0;42206
   4; 2170.3; 27-MAR-2010 14:55:39; Bright;  42.5;   62; 94Bet Leo  ; 2.14;  9700;occ;  85;   0;42206
   5; 2260.0; 27-MAR-2010 14:57:09; Bright;  38.0;   96; 68Del Leo  ; 2.56;  9300;occ;  76;   0;42206
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  12; 4312.3; 27-MAR-2010 15:31:21; Bright;  43.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  86;   0;42206
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  14; 4993.2; 27-MAR-2010 15:42:42; Dark  ;  59.0;   11; 53Alp Aql  ; 0.76;  8000;occ; 118;   0;42206
  15; 5672.2; 27-MAR-2010 15:54:01; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42206
  16; 5805.9; 27-MAR-2010 15:56:15; Dark  ;  57.5;   57; 34Sig Sgr  ; 2.07; 26000;occ; 115;   0;42206
  17; 6022.1; 27-MAR-2010 15:59:51; Dark  ;  52.5;   38; 20Eps Sgr  ; 1.84; 11000;occ; 105;   0;42206
  18; 6269.1; 27-MAR-2010 16:03:58; Dark  ;  55.0;   25; 35Lam Sco  ; 1.62; 28000;occ; 110;   0;42207
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   3;  239.5; 28-MAR-2010 00:27:04; Dark  ;  53.5;   25; 35Lam Sco  ; 1.62; 28000;occ; 107;   0;42212
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   5;  646.1; 28-MAR-2010 00:33:51; Dark  ;  50.0;    4;   Alp1Cen  ;-0.01;  5800;occ; 100;   0;42212
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   9; 1447.9; 28-MAR-2010 00:47:12; Dark  ;  46.0;  106;  9Bet Crv  ; 2.65;  5600;occ;  92;   0;42212
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  13; 2259.3; 28-MAR-2010 01:00:44; Bright;  40.5;   96; 68Del Leo  ; 2.56;  9300;occ;  81;   0;42212
  14; 2672.4; 28-MAR-2010 01:07:37; Bright;  37.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  75;   0;42212
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   7; -182.5; 30-MAR-2010 07:39:48; Dark  ;  53.5;   57; 34Sig Sgr  ; 2.07; 26000;occ; 107;   0;42244
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   9;  283.8; 30-MAR-2010 07:47:34; Dark  ;  43.0;   25; 35Lam Sco  ; 1.62; 28000;occ;  86;   0;42245
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   9; 3345.5; 30-MAR-2010 15:20:59; Bright;  37.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  75;   0;42249
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  13; 4312.8; 31-MAR-2010 20:07:17; Bright;  41.5;   66; 37Gam Cyg  ; 2.21;  5900;occ;  83;   0;42266
  14; 4433.6; 31-MAR-2010 20:09:18; Bright;  55.0;   92; 53Eps Cyg  ; 2.50;  4500;occ; 110;   0;42266
  15; 5718.1; 31-MAR-2010 20:30:43; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42266
  16; 5882.5; 31-MAR-2010 20:33:27; Dark  ;  58.0;   57; 34Sig Sgr  ; 2.07; 26000;occ; 116;   0;42266
  17; 6097.3; 31-MAR-2010 20:37:02; Dark  ;  52.0;   38; 20Eps Sgr  ; 1.84; 11000;occ; 104;   0;42267
  18; 6325.7; 31-MAR-2010 20:40:50; Dark  ;  50.5;   40;   The Sco  ; 1.86;  7100;occ; 101;   0;42267
  19; 6549.6; 31-MAR-2010 20:44:34; Dark  ;  38.5;  134;   Bet TrA  ; 2.81;  6600;occ;  77;   0;42267
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20; 6708.4; 31-MAR-2010 20:47:13; Dark  ;  54.5;    4;   Alp1Cen  ;-0.01;  5800;occ; 109;   0;42267
21; 6872.1; 31-MAR-2010 20:49:57; Dark  ;  45.5;   78;   Alp Lup  ; 2.30; 28000;occ;  91;   0;42267
22; 6968.3; 31-MAR-2010 20:51:33; Dark  ;  47.0;   81;   Eta Cen  ; 2.36; 28000;occ;  94;   0;42267
23; 7133.0; 31-MAR-2010 20:54:18; Dark  ;   4.5;   54;  5The Cen  ; 2.06;  4500;occ;   9;   0;42267
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