GOMOS Daily Report 26-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.

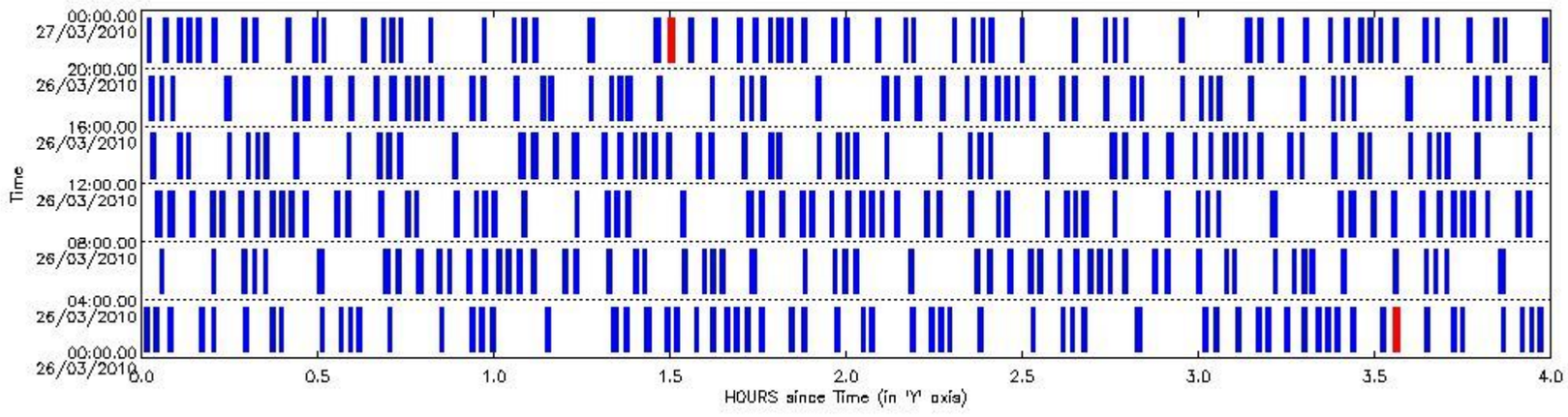
Item	Value
Time of report generation	31MAR2010 05:04:28
Data source version	GOMOS/5.00L04
Start time of products	26MAR2010 00:00:18
Stop time of products	26MAR2010 23:58:40
Store outputs in DB	Yes
Nb of level 1b prods	143
Nb of prods with errors	1

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

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

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

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



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

UTC start time	Star name	Star ID	Orbit
26-MAR-2010 03:33:07	4GamCrv	100	42185
26-MAR-2010 21:29:33	34SigSgr	57	42195

2.4 Summary of processed GOM_TRA_1P products

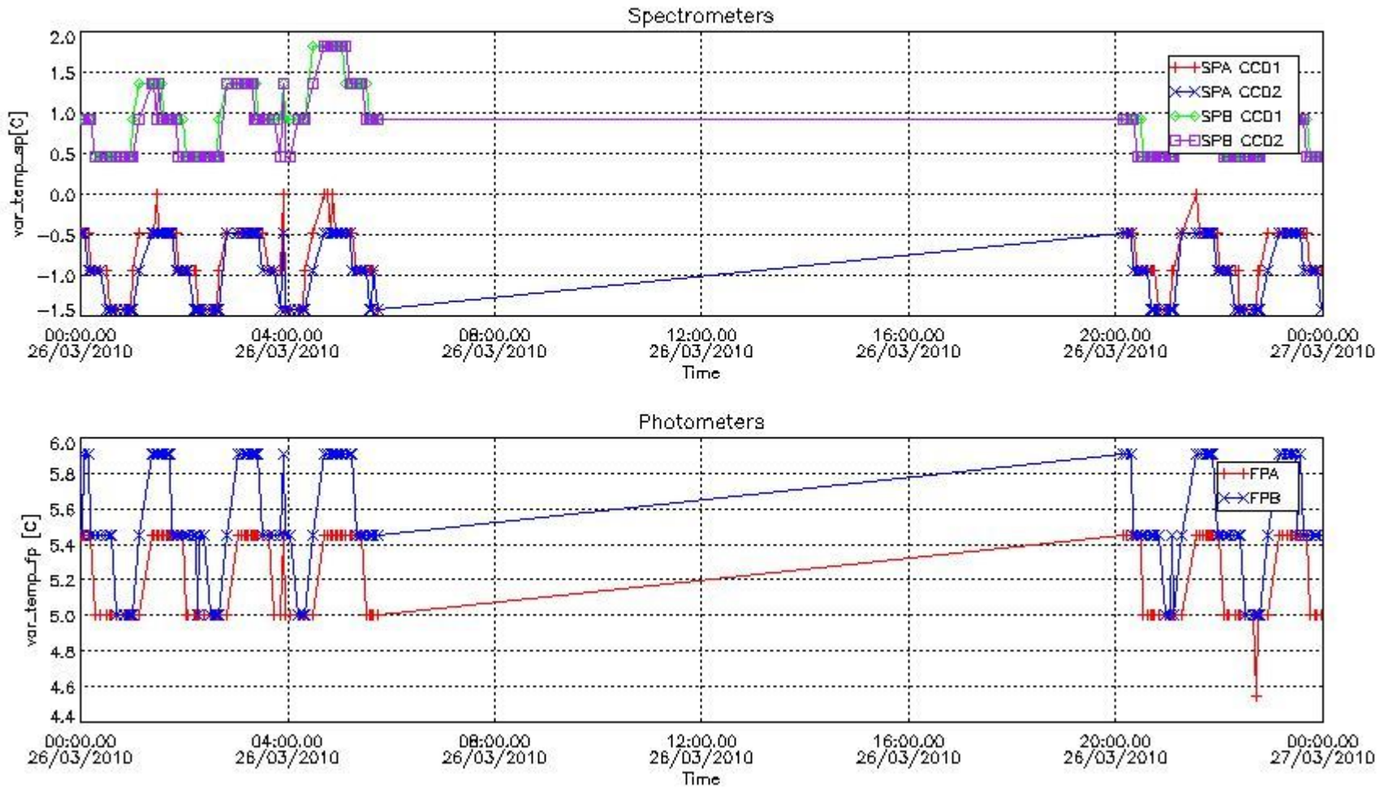
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100326_000018_000000522088_00045_42183_9235.N1	26-MAR-2010 00:00:18	Straylight	51.500	81	Eta Cen	2.3560	28000.	103	42183	No
2	GOM_TRA_1PNPDE20100326_000207_000000422088_00045_42183_9236.N1	26-MAR-2010 00:02:07	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42183	No
3	GOM_TRA_1PNPDE20100326_000434_000000472088_00045_42183_9237.N1	26-MAR-2010 00:04:34	Straylight	47.000	123	Iot Cen	2.7500	10200.	94	42183	No
4	GOM_TRA_1PNPDE20100326_000945_000000492088_00045_42183_9238.N1	26-MAR-2010 00:09:45	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42183	No
5	GOM_TRA_1PNPDE20100326_001149_000000472088_00045_42183_9239.N1	26-MAR-2010 00:11:49	Twi_and_stray	46.500	100	4Gam Crv	2.5800	13100.	93	42183	No
6	GOM_TRA_1PNPDE20100326_001720_000000512088_00045_42183_9240.N1	26-MAR-2010 00:17:20	Bright	51.000	121	29Gam Vir	2.7400	7200.0	102	42183	No
7	GOM_TRA_1PNPDE20100326_002158_000000442088_00045_42183_9241.N1	26-MAR-2010 00:21:58	Bright	43.500	62	94Bet Leo	2.1360	9700.0	87	42183	No
8	GOM_TRA_1PNPDE20100326_002325_000000372088_00045_42183_9242.N1	26-MAR-2010 00:23:25	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42183	No
9	GOM_TRA_1PNPDE20100326_003020_000000372088_00045_42183_9243.N1	26-MAR-2010 00:30:20	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	42183	No

10	GOM_TRA_1PNPDE20100326_003338_000000382088_00045_42183_9244.N1	26-MAR-2010 00:33:38	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	42183	No
11	GOM_TRA_1PNPDE20100326_003509_000000342088_00045_42183_9245.N1	26-MAR-2010 00:35:09	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	42183	No
12	GOM_TRA_1PNPDE20100326_003638_000000452088_00045_42183_9246.N1	26-MAR-2010 00:36:38	Bright	44.500	55	79Zet UMa	2.0600	10200.	89	42183	No
13	GOM_TRA_1PNPDE20100326_004150_000000382088_00045_42183_9247.N1	26-MAR-2010 00:41:50	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	42183	No
14	GOM_TRA_1PNPDE20100326_005048_000000362088_00045_42183_9248.N1	26-MAR-2010 00:50:48	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	42183	No
15	GOM_TRA_1PNPDE20100326_005557_000000372088_00045_42183_9249.N1	26-MAR-2010 00:55:57	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	42183	No
16	GOM_TRA_1PNPDE20100326_005734_000000442088_00045_42183_9250.N1	26-MAR-2010 00:57:34	Bright	43.500	66	37Gam Cyg	2.2080	5900.0	87	42183	No
17	GOM_TRA_1PNPDE20100326_005927_000000412088_00045_42183_9251.N1	26-MAR-2010 00:59:27	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	42183	No
18	GOM_TRA_1PNPDE20100326_010841_000000592088_00045_42183_9252.N1	26-MAR-2010 01:08:41	Straylight	58.500	11	53Alp Aql	0.76500	8000.0	117	42183	No
19	GOM_TRA_1PNPDE20100326_012202_000000512088_00045_42183_9263.N1	26-MAR-2010 01:22:02	Dark	51.000	57	34Sig Sgr	2.0660	26000.	102	42183	No
20	GOM_TRA_1PNPDE20100326_012538_000000572088_00045_42183_9264.N1	26-MAR-2010 01:25:38	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	42183	No
21	GOM_TRA_1PNPDE20100326_012905_000000522088_00046_42184_9265.N1	26-MAR-2010 01:29:05	Dark	51.500	85	Kap Sco	2.4070	28000.	103	42184	No
22	GOM_TRA_1PNPDE20100326_013048_000000472088_00046_42184_9266.N1	26-MAR-2010 01:30:48	Dark	46.500	141	Bet Ara	2.8400	4600.0	93	42184	No
23	GOM_TRA_1PNPDE20100326_013409_000000402088_00046_42184_9267.N1	26-MAR-2010 01:34:09	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42184	No
24	GOM_TRA_1PNPDE20100326_013651_000000532088_00046_42184_9268.N1	26-MAR-2010 01:36:51	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	42184	No
25	GOM_TRA_1PNPDE20100326_013920_000000492088_00046_42184_9269.N1	26-MAR-2010 01:39:20	Straylight	48.500	78	Alp Lup	2.3040	28000.	97	42184	No
26	GOM_TRA_1PNPDE20100326_014054_000000512088_00046_42184_9270.N1	26-MAR-2010 01:40:54	Straylight	50.500	81	Eta Cen	2.3560	28000.	101	42184	No
27	GOM_TRA_1PNPDE20100326_014244_000000442088_00046_42184_9271.N1	26-MAR-2010 01:42:44	Straylight	44.000	64	Gam Cen	2.2000	10600.	88	42184	No
28	GOM_TRA_1PNPDE20100326_014511_000000462088_00046_42184_9272.N1	26-MAR-2010 01:45:11	Straylight	46.000	123	Iot Cen	2.7500	10200.	92	42184	No
29	GOM_TRA_1PNPDE20100326_015021_000000472088_00046_42184_9273.N1	26-MAR-2010 01:50:21	Straylight	47.000	106	9Bet Crv	2.6480	5600.0	94	42184	No
30	GOM_TRA_1PNPDE20100326_015225_000000452088_00046_42184_9274.N1	26-MAR-2010 01:52:25	Twi_and_stray	44.500	100	4Gam Crv	2.5800	13100.	89	42184	No
31	GOM_TRA_1PNPDE20100326_015756_000000492088_00046_42184_9275.N1	26-MAR-2010 01:57:56	Bright	49.000	121	29Gam Vir	2.7400	7200.0	98	42184	No
32	GOM_TRA_1PNPDE20100326_020233_000000422088_00046_42184_9276.N1	26-MAR-2010 02:02:33	Bright	42.000	62	94Bet Leo	2.1360	9700.0	84	42184	No
33	GOM_TRA_1PNPDE20100326_020400_000000392088_00046_42184_9277.N1	26-MAR-2010 02:04:00	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	42184	No
34	GOM_TRA_1PNPDE20100326_021055_000000392088_00046_42184_9278.N1	26-MAR-2010 02:10:55	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42184	No
35	GOM_TRA_1PNPDE20100326_021413_000000382088_00046_42184_9279.N1	26-MAR-2010 02:14:13	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	42184	No
36	GOM_TRA_1PNPDE20100326_021545_000000392088_00046_42184_9280.N1	26-MAR-2010 02:15:45	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	42184	No
37	GOM_TRA_1PNPDE20100326_021713_000000452088_00046_42184_9281.N1	26-MAR-2010 02:17:13	Bright	45.000	55	79Zet UMa	2.0600	10200.	90	42184	No
38	GOM_TRA_1PNPDE20100326_022226_000000402088_00046_42184_9282.N1	26-MAR-2010 02:22:26	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42184	No
39	GOM_TRA_1PNPDE20100326_023124_000000372088_00046_42184_9283.N1	26-MAR-2010 02:31:24	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	42184	No
40	GOM_TRA_1PNPDE20100326_023633_000000412088_00046_42184_9284.N1	26-MAR-2010 02:36:33	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	42184	No
41	GOM_TRA_1PNPDE20100326_023810_000000392088_00046_42184_9285.N1	26-MAR-2010 02:38:10	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	42184	No
42	GOM_TRA_1PNPDE20100326_024003_000000572088_00046_42184_9286.N1	26-MAR-2010 02:40:03	Bright	57.000	92	53Eps Cyg	2.5000	4500.0	114	42184	No
43	GOM_TRA_1PNPDE20100326_024918_000000602088_00046_42184_9287.N1	26-MAR-2010 02:49:18	Straylight	59.500	11	53Alp Aql	0.76500	8000.0	119	42184	No
44	GOM_TRA_1PNPDE20100326_030239_000000512088_00046_42184_9288.N1	26-MAR-2010 03:02:39	Dark	51.000	57	34Sig Sgr	2.0660	26000.	102	42184	No
45	GOM_TRA_1PNPDE20100326_030615_000000542088_00046_42184_9289.N1	26-MAR-2010 03:06:15	Dark	53.500	38	20Eps Sgr	1.8360	11000.	107	42184	No
46	GOM_TRA_1PNPDE20100326_030942_000000512088_00047_42185_9290.N1	26-MAR-2010 03:09:42	Dark	50.500	85	Kap Sco	2.4070	28000.	101	42185	No
47	GOM_TRA_1PNPDE20100326_031125_000000442088_00047_42185_9291.N1	26-MAR-2010 03:11:25	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	42185	No
48	GOM_TRA_1PNPDE20100326_031445_000000402088_00047_42185_9292.N1	26-MAR-2010 03:14:45	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	42185	No
49	GOM_TRA_1PNPDE20100326_031727_000000562088_00047_42185_9293.N1	26-MAR-2010 03:17:27	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	42185	No
50	GOM_TRA_1PNPDE20100326_031956_000000452088_00047_42185_9294.N1	26-MAR-2010 03:19:56	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	42185	No
51	GOM_TRA_1PNPDE20100326_032131_000000492088_00047_42185_9295.N1	26-MAR-2010 03:21:31	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42185	No
52	GOM_TRA_1PNPDE20100326_032320_000000412088_00047_42185_9296.N1	26-MAR-2010 03:23:20	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	42185	No
53	GOM_TRA_1PNPDE20100326_032547_000000472088_00047_42185_9297.N1	26-MAR-2010 03:25:47	Straylight	47.000	123	Iot Cen	2.7500	10200.	94	42185	No
54	GOM_TRA_1PNPDE20100326_033057_000000492088_00047_42185_9298.N1	26-MAR-2010 03:30:57	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42185	No
55	GOM_TRA_1PNPDE20100326_033832_000000502088_00047_42185_9299.N1	26-MAR-2010 03:38:32	Bright	50.000	121	29Gam Vir	2.7400	7200.0	100	42185	No
56	GOM_TRA_1PNPDE20100326_034309_000000402088_00047_42185_9300.N1	26-MAR-2010 03:43:09	Bright	40.000	62	94Bet Leo	2.1360	9700.0	80	42185	No
57	GOM_TRA_1PNPDE20100326_034436_000000392088_00047_42185_9301.N1	26-MAR-2010 03:44:36	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	42185	No
58	GOM_TRA_1PNPDE20100326_035131_000000402088_00047_42185_9302.N1	26-MAR-2010 03:51:31	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	42185	No
59	GOM_TRA_1PNPDE20100326_035449_000000372088_00047_42185_9297.N1	26-MAR-2010 03:54:49	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	42185	Yes
60	GOM_TRA_1PNPDE20100326_035621_000000392088_00047_42185_9298.N1	26-MAR-2010 03:56:21	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	42185	No
61	GOM_TRA_1PNPDE20100326_035749_000000472088_00047_42185_9299.N1	26-MAR-2010 03:57:49	Bright	46.500	55	79Zet UMa	2.0600	10200.	93	42185	No
62	GOM_TRA_1PNPDE20100326_040301_000000412088_00047_42185_9300.N1	26-MAR-2010 04:03:01	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	42185	No
63	GOM_TRA_1PNPDE20100326_041200_000000372088_00047_42185_9301.N1	26-MAR-2010 04:12:00	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	42185	No
64	GOM_TRA_1PNPDE20100326_041709_000000372088_00047_42185_9302.N1	26-MAR-2010 04:17:09	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	42185	No
65	GOM_TRA_1PNPDE20100326_041846_000000422088_00047_42185_9303.N1	26-MAR-2010 04:18:46	Bright	41.500	66	37Gam Cyg	2.2080	5900.0	83	42185	No
66	GOM_TRA_1PNPDE20100326_042039_000000402088_00047_42185_9304.N1	26-MAR-2010 04:20:39	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	42185	No
67	GOM_TRA_1PNPDE20100326_042954_000000592088_00047_42185_9305.N1	26-MAR-2010 04:29:54	Straylight	58.500	11	53Alp Aql	0.76500	8000.0	117	42185	No
68	GOM_TRA_1PNPDE20100326_044316_000000502088_00047_42185_9306.N1	26-MAR-2010 04:43:16	Dark	50.000	57	34Sig Sgr	2.0660	26000.	100	42185	No

69	GOM_TRA_1PNPDE20100326_044652_000000602088_00047_42185_9307.N1	26-MAR-2010 04:46:52	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	42185	No
70	GOM_TRA_1PNPDE20100326_045019_000000492088_00048_42186_9308.N1	26-MAR-2010 04:50:19	Dark	49.000	85	Kap Sco	2.4070	28000.	98	42186	No
71	GOM_TRA_1PNPDE20100326_045202_000000432088_00048_42186_9309.N1	26-MAR-2010 04:52:02	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	42186	No
72	GOM_TRA_1PNPDE20100326_045522_000000402088_00048_42186_9310.N1	26-MAR-2010 04:55:22	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	42186	No
73	GOM_TRA_1PNPDE20100326_045804_000000442088_00048_42186_9311.N1	26-MAR-2010 04:58:04	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	42186	No
74	GOM_TRA_1PNPDE20100326_050033_000000462088_00048_42186_9312.N1	26-MAR-2010 05:00:33	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	42186	No
75	GOM_TRA_1PNPDE20100326_050208_000000502088_00048_42186_9313.N1	26-MAR-2010 05:02:08	Straylight	50.000	81	Eta Cen	2.3560	28000.	100	42186	No
76	GOM_TRA_1PNPDE20100326_050356_000000432088_00048_42186_9314.N1	26-MAR-2010 05:03:56	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	42186	No
77	GOM_TRA_1PNPDE20100326_050624_000000472088_00048_42186_9315.N1	26-MAR-2010 05:06:24	Straylight	46.500	123	Iot Cen	2.7500	10200.	93	42186	No
78	GOM_TRA_1PNPDE20100326_051133_000000492088_00048_42186_9316.N1	26-MAR-2010 05:11:33	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42186	No
79	GOM_TRA_1PNPDE20100326_051337_000000472088_00048_42186_9317.N1	26-MAR-2010 05:13:37	Twi_and_stray	47.000	100	4Gam Crv	2.5800	13100.	94	42186	No
80	GOM_TRA_1PNPDE20100326_051907_000000502088_00048_42186_9318.N1	26-MAR-2010 05:19:07	Bright	50.000	121	29Gam Vir	2.7400	7200.0	100	42186	No
81	GOM_TRA_1PNPDE20100326_052345_000000422088_00048_42186_9319.N1	26-MAR-2010 05:23:45	Bright	42.000	62	94Bet Leo	2.1360	9700.0	84	42186	No
82	GOM_TRA_1PNPDE20100326_052512_000000382088_00048_42186_9320.N1	26-MAR-2010 05:25:12	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	42186	No
83	GOM_TRA_1PNPDE20100326_053207_000000392088_00048_42186_9321.N1	26-MAR-2010 05:32:07	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42186	No
84	GOM_TRA_1PNPDE20100326_053525_000000372088_00048_42186_9322.N1	26-MAR-2010 05:35:25	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	42186	No
85	GOM_TRA_1PNPDE20100326_053657_000000372088_00048_42186_9323.N1	26-MAR-2010 05:36:57	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	42186	No
86	GOM_TRA_1PNPDE20100326_053824_000000462088_00048_42186_9324.N1	26-MAR-2010 05:38:24	Bright	45.500	55	79Zet UMa	2.0600	10200.	91	42186	No
87	GOM_TRA_1PNPDE20100326_054337_000000582088_00048_42186_9325.N1	26-MAR-2010 05:43:37	Bright	57.500	60	7Bet UMi	2.0810	3950.0	115	42186	No
88	GOM_TRA_1PNPDE20100326_200737_000000522088_00057_42195_9437.N1	26-MAR-2010 20:07:37	Straylight	52.000	81	Eta Cen	2.3560	28000.	104	42195	No
89	GOM_TRA_1PNPDE20100326_200923_000000402088_00057_42195_9438.N1	26-MAR-2010 20:09:23	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	42195	No
90	GOM_TRA_1PNPDE20100326_201151_000000482088_00057_42195_9439.N1	26-MAR-2010 20:11:51	Straylight	47.500	123	Iot Cen	2.7500	10200.	95	42195	No
91	GOM_TRA_1PNPDE20100326_201658_000000492088_00057_42195_9440.N1	26-MAR-2010 20:16:58	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42195	No
92	GOM_TRA_1PNPDE20100326_201902_000000462088_00057_42195_9441.N1	26-MAR-2010 20:19:02	Twi_and_stray	46.000	100	4Gam Crv	2.5800	13100.	92	42195	No
93	GOM_TRA_1PNPDE20100326_202429_000000492088_00057_42195_9442.N1	26-MAR-2010 20:24:29	Bright	49.000	121	29Gam Vir	2.7400	7200.0	98	42195	No
94	GOM_TRA_1PNPDE20100326_202906_000000412088_00057_42195_9443.N1	26-MAR-2010 20:29:06	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	42195	No
95	GOM_TRA_1PNPDE20100326_203035_000000382088_00057_42195_9444.N1	26-MAR-2010 20:30:35	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	42195	No
96	GOM_TRA_1PNPDE20100326_203729_000000412088_00057_42195_9445.N1	26-MAR-2010 20:37:29	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	42195	No
97	GOM_TRA_1PNPDE20100326_204047_000000372088_00057_42195_9446.N1	26-MAR-2010 20:40:47	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	42195	No
98	GOM_TRA_1PNPDE20100326_204219_000000402088_00057_42195_9447.N1	26-MAR-2010 20:42:19	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	42195	No
99	GOM_TRA_1PNPDE20100326_204342_000000432088_00057_42195_9448.N1	26-MAR-2010 20:43:42	Bright	43.000	55	79Zet UMa	2.0600	10200.	86	42195	No
100	GOM_TRA_1PNPDE20100326_204857_000000372088_00057_42195_9449.N1	26-MAR-2010 20:48:57	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	42195	No
101	GOM_TRA_1PNPDE20100326_205759_000000372088_00057_42195_9450.N1	26-MAR-2010 20:57:59	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	42195	No
102	GOM_TRA_1PNPDE20100326_210309_000000382088_00057_42195_9451.N1	26-MAR-2010 21:03:09	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	42195	No
103	GOM_TRA_1PNPDE20100326_210446_000000432088_00057_42195_9452.N1	26-MAR-2010 21:04:46	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	42195	No
104	GOM_TRA_1PNPDE20100326_210640_000000422088_00057_42195_9453.N1	26-MAR-2010 21:06:40	Bright	41.500	92	53Eps Cyg	2.5000	4500.0	83	42195	No
105	GOM_TRA_1PNPDE20100326_211600_000000602088_00057_42195_9454.N1	26-MAR-2010 21:16:00	Straylight	59.500	11	53Alp Aql	0.76500	8000.0	119	42195	No
106	GOM_TRA_1PNPDE20100326_213303_000000512088_00057_42195_9455.N1	26-MAR-2010 21:33:03	Dark	51.000	38	20Eps Sgr	1.8360	11000.	102	42195	No
107	GOM_TRA_1PNPDE20100326_213708_000000562088_00058_42196_9456.N1	26-MAR-2010 21:37:08	Dark	56.000	25	35Lam Sco	1.6200	28000.	112	42196	No
108	GOM_TRA_1PNPDE20100326_214127_000000392088_00058_42196_9457.N1	26-MAR-2010 21:41:27	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	42196	No
109	GOM_TRA_1PNPDE20100326_214408_000000442088_00058_42196_9458.N1	26-MAR-2010 21:44:08	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	42196	No
110	GOM_TRA_1PNPDE20100326_214639_000000462088_00058_42196_9459.N1	26-MAR-2010 21:46:39	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	42196	No
111	GOM_TRA_1PNPDE20100326_214814_000000512088_00058_42196_9460.N1	26-MAR-2010 21:48:14	Straylight	51.000	81	Eta Cen	2.3560	28000.	102	42196	No
112	GOM_TRA_1PNPDE20100326_214959_000000422088_00058_42196_9461.N1	26-MAR-2010 21:49:59	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42196	No
113	GOM_TRA_1PNPDE20100326_215227_000000442088_00058_42196_9462.N1	26-MAR-2010 21:52:27	Straylight	44.000	123	Iot Cen	2.7500	10200.	88	42196	No
114	GOM_TRA_1PNPDE20100326_215734_000000492088_00058_42196_9463.N1	26-MAR-2010 21:57:34	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42196	No
115	GOM_TRA_1PNPDE20100326_215938_000000442088_00058_42196_9464.N1	26-MAR-2010 21:59:38	Twi_and_stray	43.500	100	4Gam Crv	2.5800	13100.	87	42196	No
116	GOM_TRA_1PNPDE20100326_220505_000000482088_00058_42196_9465.N1	26-MAR-2010 22:05:05	Bright	48.000	121	29Gam Vir	2.7400	7200.0	96	42196	No
117	GOM_TRA_1PNPDE20100326_220942_000000412088_00058_42196_9466.N1	26-MAR-2010 22:09:42	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	42196	No
118	GOM_TRA_1PNPDE20100326_221111_000000382088_00058_42196_9467.N1	26-MAR-2010 22:11:11	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	42196	No
119	GOM_TRA_1PNPDE20100326_221805_000000362088_00058_42196_9468.N1	26-MAR-2010 22:18:05	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	42196	No
120	GOM_TRA_1PNPDE20100326_222123_000000372088_00058_42196_9469.N1	26-MAR-2010 22:21:23	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	42196	No
121	GOM_TRA_1PNPDE20100326_222255_000000392088_00058_42196_9470.N1	26-MAR-2010 22:22:55	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	42196	No
122	GOM_TRA_1PNPDE20100326_222417_000000452088_00058_42196_9471.N1	26-MAR-2010 22:24:17	Bright	44.500	55	79Zet UMa	2.0600	10200.	89	42196	No
123	GOM_TRA_1PNPDE20100326_222933_000000422088_00058_42196_9472.N1	26-MAR-2010 22:29:33	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	42196	No
124	GOM_TRA_1PNPDE20100326_223835_000000382088_00058_42196_9473.N1	26-MAR-2010 22:38:35	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	42196	No
125	GOM_TRA_1PNPDE20100326_224345_000000412088_00058_42196_9474.N1	26-MAR-2010 22:43:45	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	42196	No
126	GOM_TRA_1PNPDE20100326_224522_000000402088_00058_42196_9475.N1	26-MAR-2010 22:45:22	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	42196	No
127	GOM_TRA_1PNPDE20100326_224716_000000392088_00058_42196_9476.N1	26-MAR-2010 22:47:16	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	42196	No

128	GOM_TRA_1PNPDE20100326_225636_000000602088_00058_42196_9477.N1	26-MAR-2010 22:56:36	Straylight	60.000	11	53Alp Aql	0.76500	8000.0	120	42196	No
129	GOM_TRA_1PNPDE20100326_231004_000000532088_00058_42196_9476.N1	26-MAR-2010 23:10:04	Dark	52.500	57	34Sig Sgr	2.0660	26000.	105	42196	No
130	GOM_TRA_1PNPDE20100326_231340_000000502088_00058_42196_9477.N1	26-MAR-2010 23:13:40	Dark	50.000	38	20Eps Sgr	1.8360	11000.	100	42196	No
131	GOM_TRA_1PNPDE20100326_231746_000000542088_00059_42197_9478.N1	26-MAR-2010 23:17:46	Dark	53.500	25	35Lam Sco	1.6200	28000.	107	42197	No
132	GOM_TRA_1PNPDE20100326_232203_000000402088_00059_42197_9479.N1	26-MAR-2010 23:22:03	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42197	No
133	GOM_TRA_1PNPDE20100326_232445_000000542088_00059_42197_9480.N1	26-MAR-2010 23:24:45	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	42197	No
134	GOM_TRA_1PNPDE20100326_232716_000000462088_00059_42197_9481.N1	26-MAR-2010 23:27:16	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	42197	No
135	GOM_TRA_1PNPDE20100326_232850_000000492088_00059_42197_9482.N1	26-MAR-2010 23:28:50	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42197	No
136	GOM_TRA_1PNPDE20100326_233035_000000422088_00059_42197_9483.N1	26-MAR-2010 23:30:35	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42197	No
137	GOM_TRA_1PNPDE20100326_233304_000000452088_00059_42197_9484.N1	26-MAR-2010 23:33:04	Straylight	45.000	123	Iot Cen	2.7500	10200.	90	42197	No
138	GOM_TRA_1PNPDE20100326_233810_000000502088_00059_42197_9485.N1	26-MAR-2010 23:38:10	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42197	No
139	GOM_TRA_1PNPDE20100326_234014_000000442088_00059_42197_9486.N1	26-MAR-2010 23:40:14	Twi_and_stray	43.500	100	4Gam Crv	2.5800	13100.	87	42197	No
140	GOM_TRA_1PNPDE20100326_234541_000000482088_00059_42197_9487.N1	26-MAR-2010 23:45:41	Bright	47.500	121	29Gam Vir	2.7400	7200.0	95	42197	No
141	GOM_TRA_1PNPDE20100326_235018_000000412088_00059_42197_9488.N1	26-MAR-2010 23:50:18	Bright	41.000	62	94Bet Leo	2.1360	9700.0	82	42197	No
142	GOM_TRA_1PNPDE20100326_235147_000000372088_00059_42197_9489.N1	26-MAR-2010 23:51:47	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42197	No
143	GOM_TRA_1PNPDE20100326_235840_000000392088_00059_42197_9490.N1	26-MAR-2010 23:58:40	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42197	No

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



4. Overview of dark signal processing per product

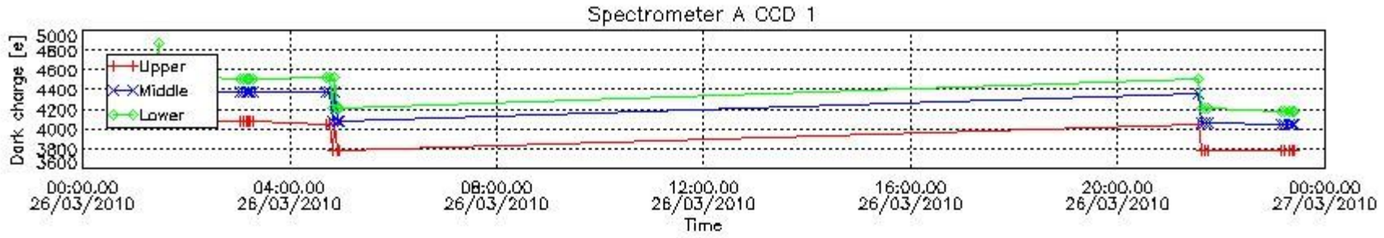
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

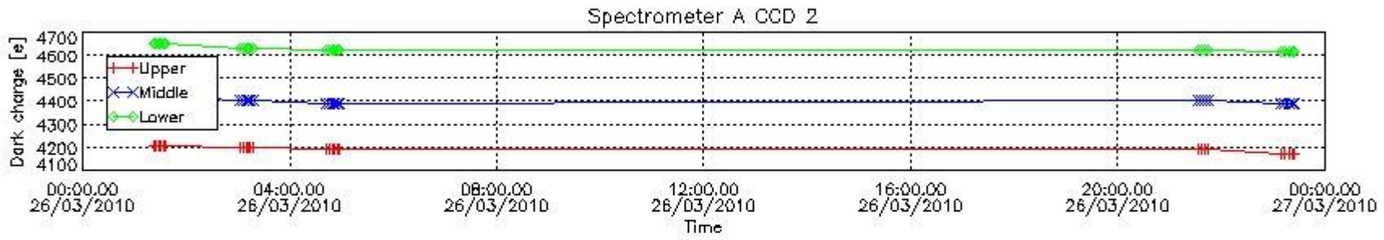
only the DC part of the signal and not the photon generated signal).
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given.
It is also provided the mean DC plot per product for dark limb products with no error flag set.

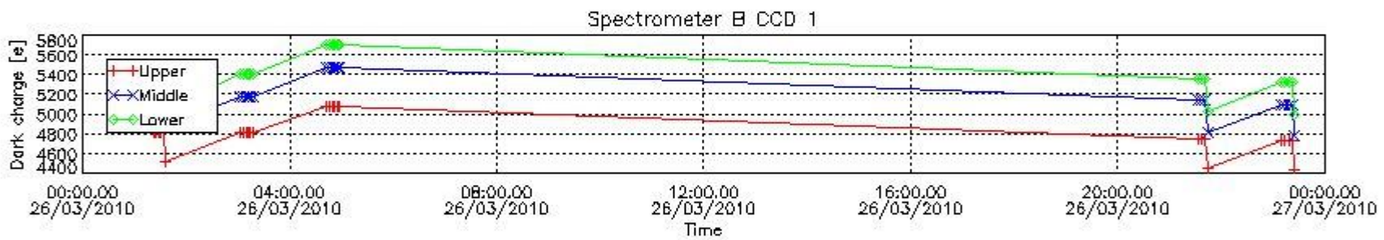
4.1 These products did not use the DSA observation for DC computation:

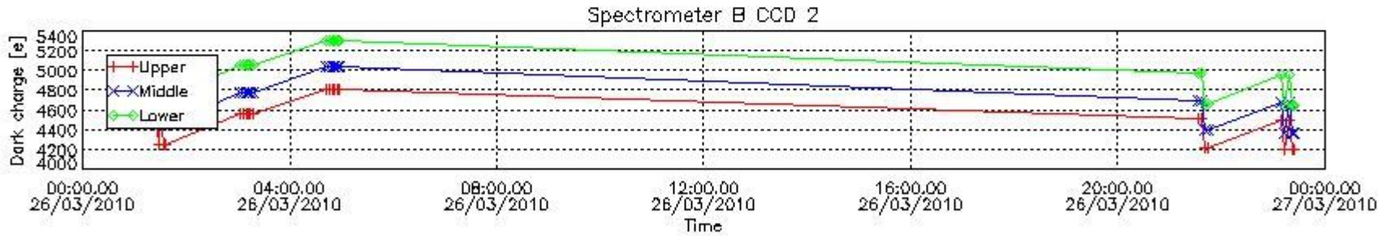
Product name	DC information
GOM_TRA_1PNPDE20100326_200737_000000522088_00057_42195_9437.N1	DC map used
GOM_TRA_1PNPDE20100326_200923_000000402088_00057_42195_9438.N1	DC map used
GOM_TRA_1PNPDE20100326_201151_000000482088_00057_42195_9439.N1	DC map used
GOM_TRA_1PNPDE20100326_201658_000000492088_00057_42195_9440.N1	DC map used
GOM_TRA_1PNPDE20100326_201902_000000462088_00057_42195_9441.N1	DC map used
GOM_TRA_1PNPDE20100326_202429_000000492088_00057_42195_9442.N1	DC map used
GOM_TRA_1PNPDE20100326_202906_000000412088_00057_42195_9443.N1	DC map used
GOM_TRA_1PNPDE20100326_203035_000000382088_00057_42195_9444.N1	DC map used
GOM_TRA_1PNPDE20100326_203729_000000412088_00057_42195_9445.N1	DC map used
GOM_TRA_1PNPDE20100326_204047_000000372088_00057_42195_9446.N1	DC map used
GOM_TRA_1PNPDE20100326_204219_000000402088_00057_42195_9447.N1	DC map used
GOM_TRA_1PNPDE20100326_204342_000000432088_00057_42195_9448.N1	DC map used
GOM_TRA_1PNPDE20100326_204857_000000372088_00057_42195_9449.N1	DC map used
GOM_TRA_1PNPDE20100326_205759_000000372088_00057_42195_9450.N1	DC map used
GOM_TRA_1PNPDE20100326_210309_000000382088_00057_42195_9451.N1	DC map used
GOM_TRA_1PNPDE20100326_210446_000000432088_00057_42195_9452.N1	DC map used
GOM_TRA_1PNPDE20100326_210640_000000422088_00057_42195_9453.N1	DC map used
GOM_TRA_1PNPDE20100326_211600_000000602088_00057_42195_9454.N1	DC map used

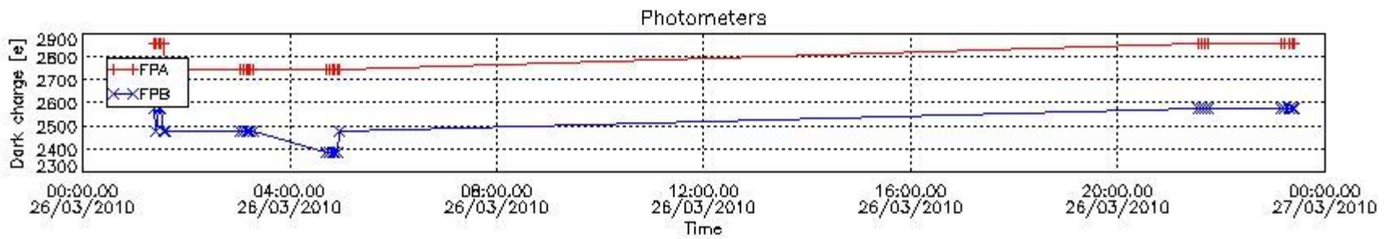
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











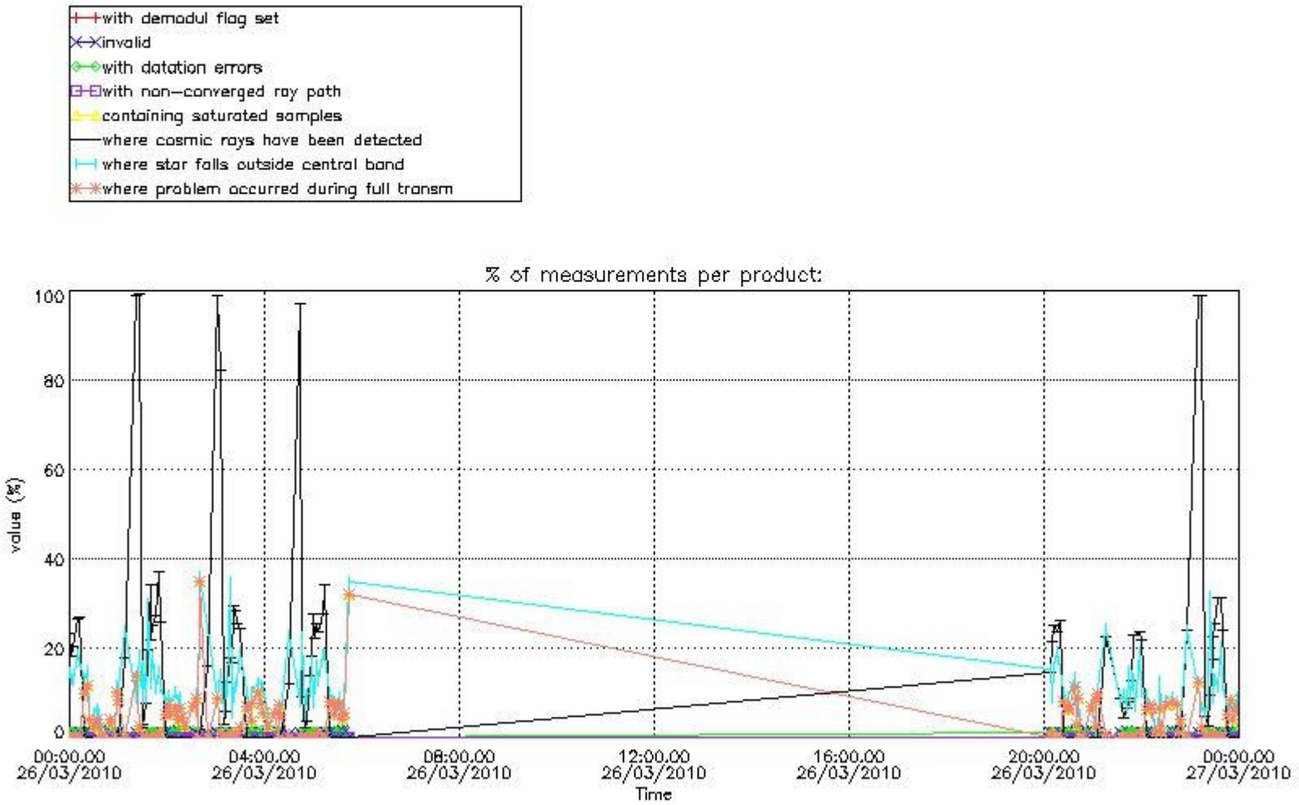
5. Demodulation flag and quality information monitoring

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:

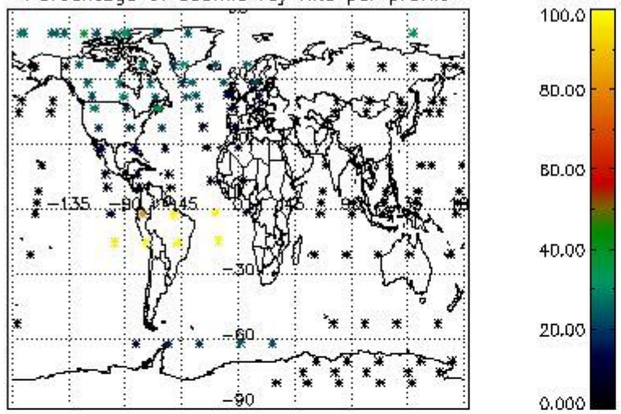
At least one measurement with demodulation flag set:	33.8028 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

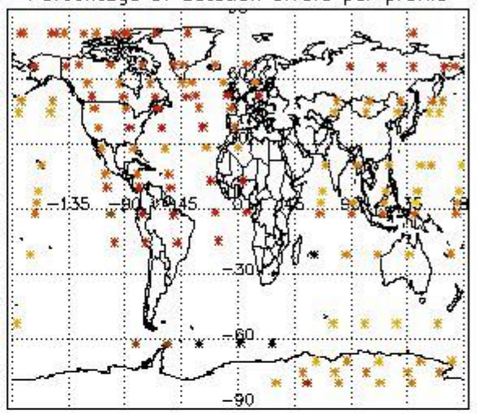


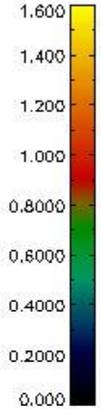
5.3 Plot quality information per product (world map)

Percentage of cosmic ray hits per profile

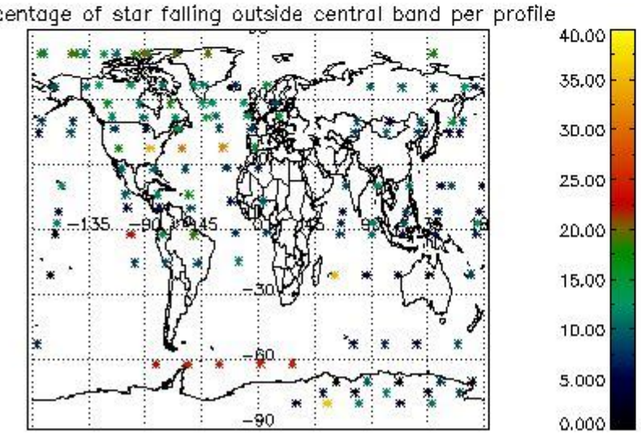


Percentage of datation errors per profile

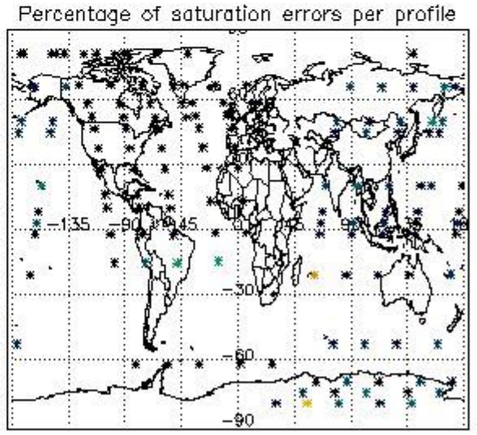


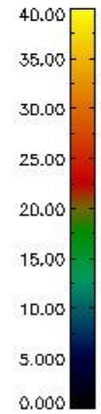


Percentage of star falling outside central band per profile



Percentage of saturation errors per profile





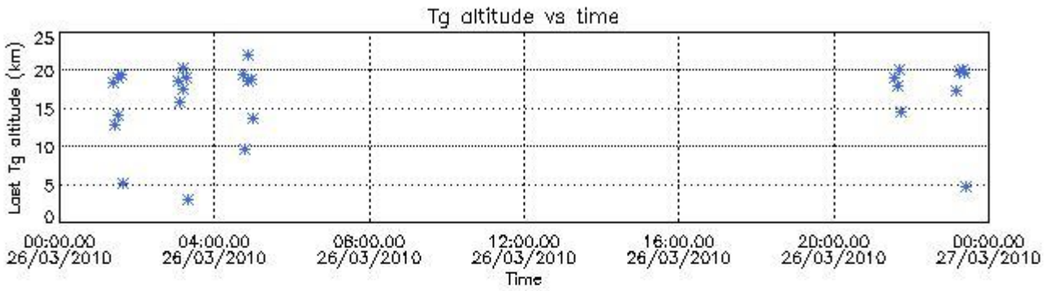
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

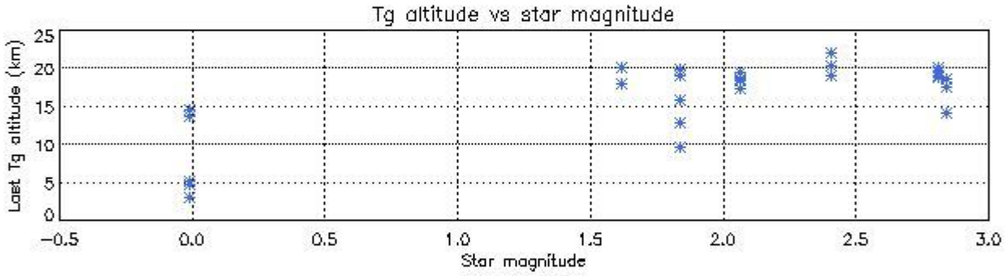
6.1 Statistics on tangent altitude lost:

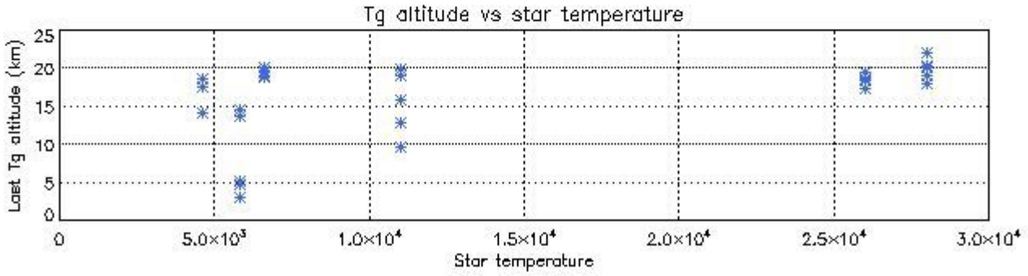
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.250	19.736	NaN
St. deviation:	5.0873	3.7842	NaN
Maximum:	21.963	27.885	NaN
Minimum:	3.0238	3.7382	NaN
Number of data:	27.000	71.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

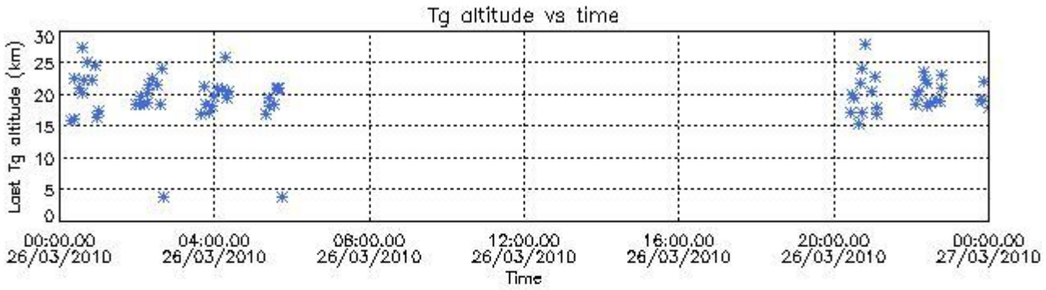


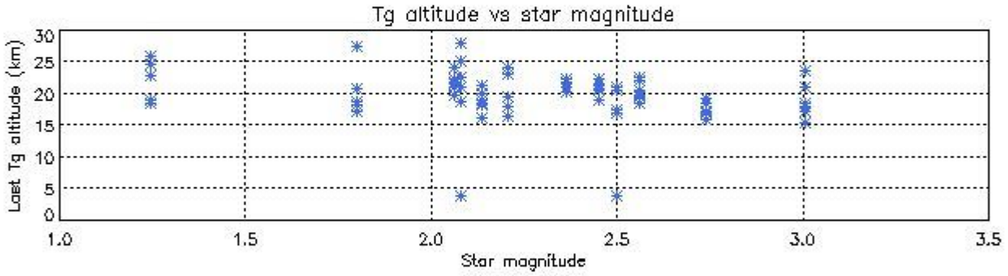


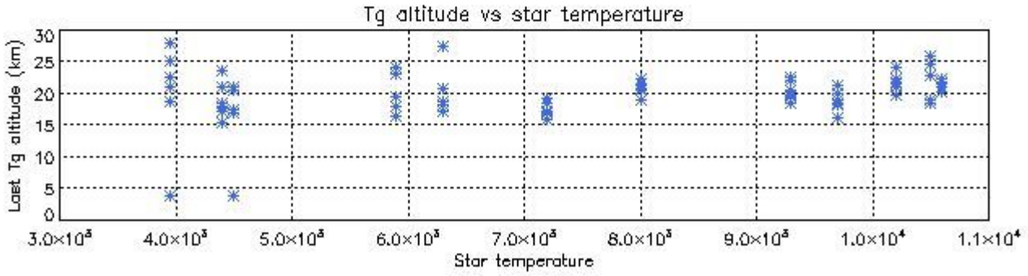


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





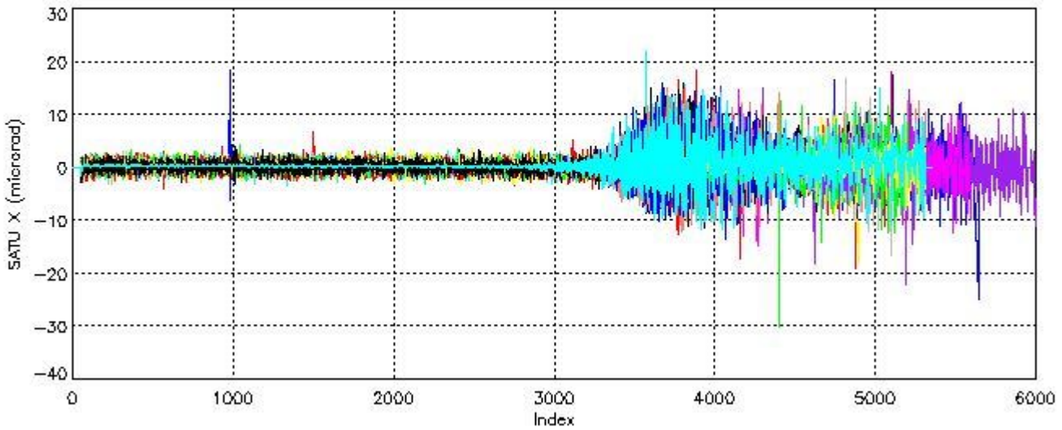


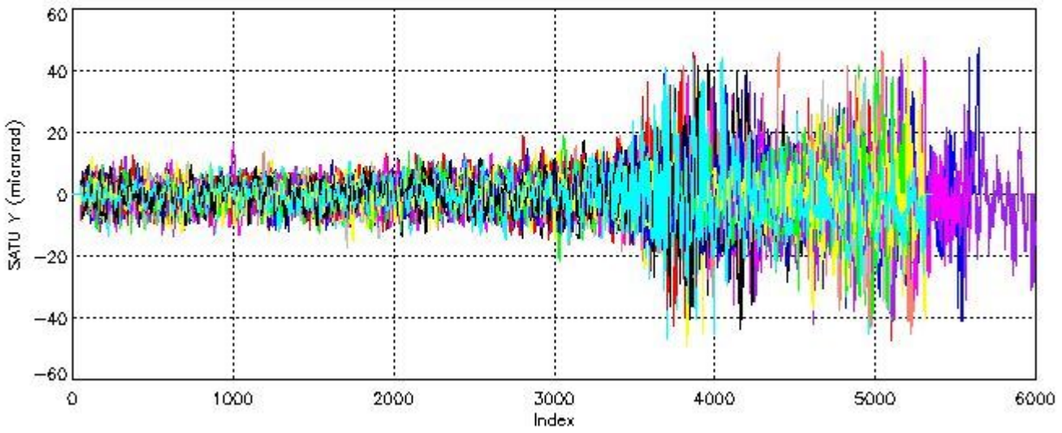
7. Star Acquisition and Tracking Unit (SATU)

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:	0.19325	-0.45065	0.15939	-0.45785
St. deviation:	0.61092	3.4427	0.73844	3.1548
Maximum:	18.300	16.500	4.9000	14.400
Minimum:	-6.3000	-13.900	-4.8000	-13.700

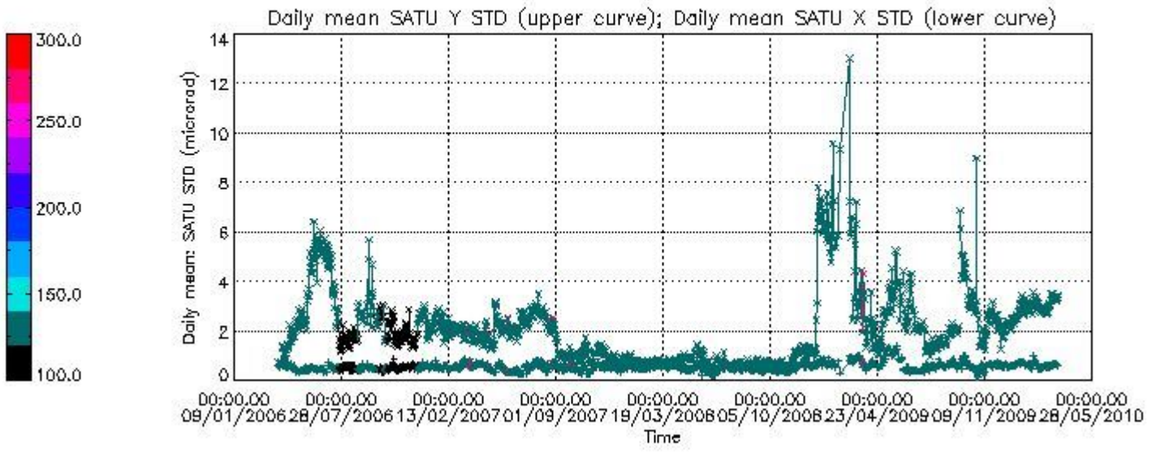
Number of data:	29500.	29500.	66950.	66950.

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

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

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

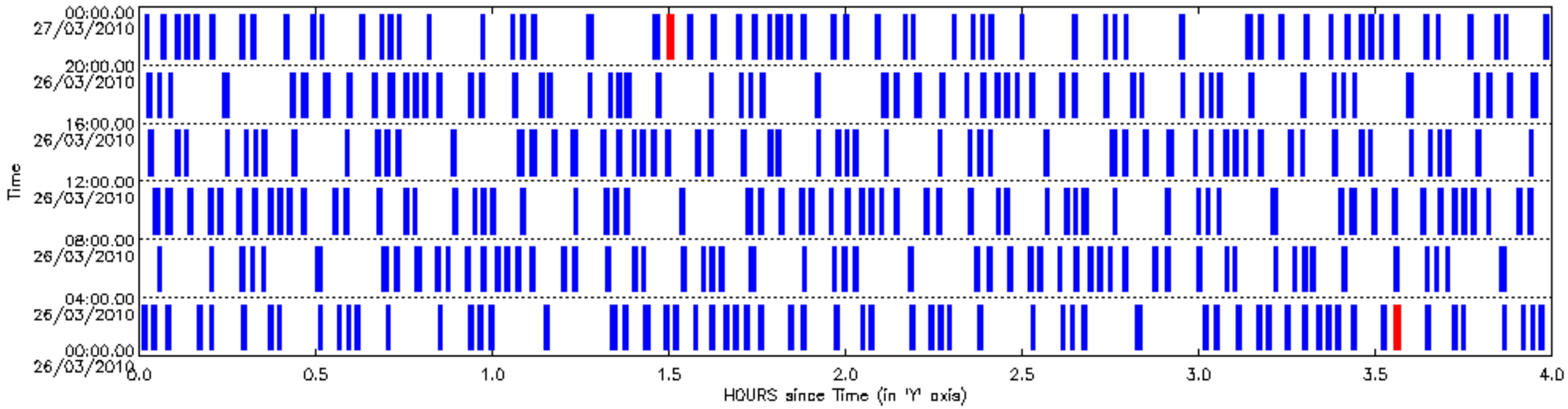
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

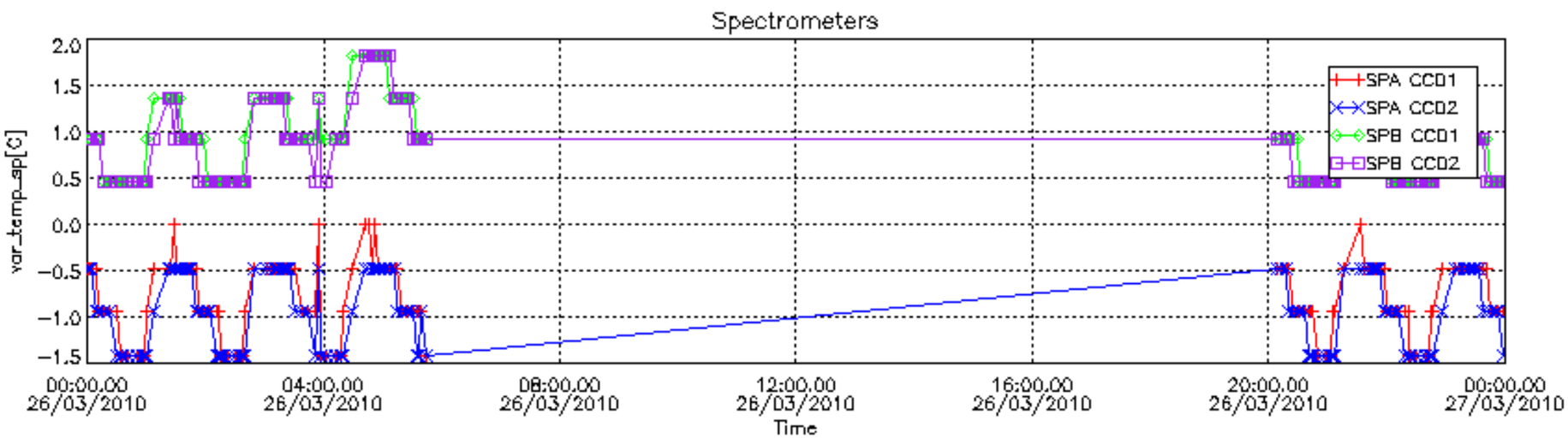


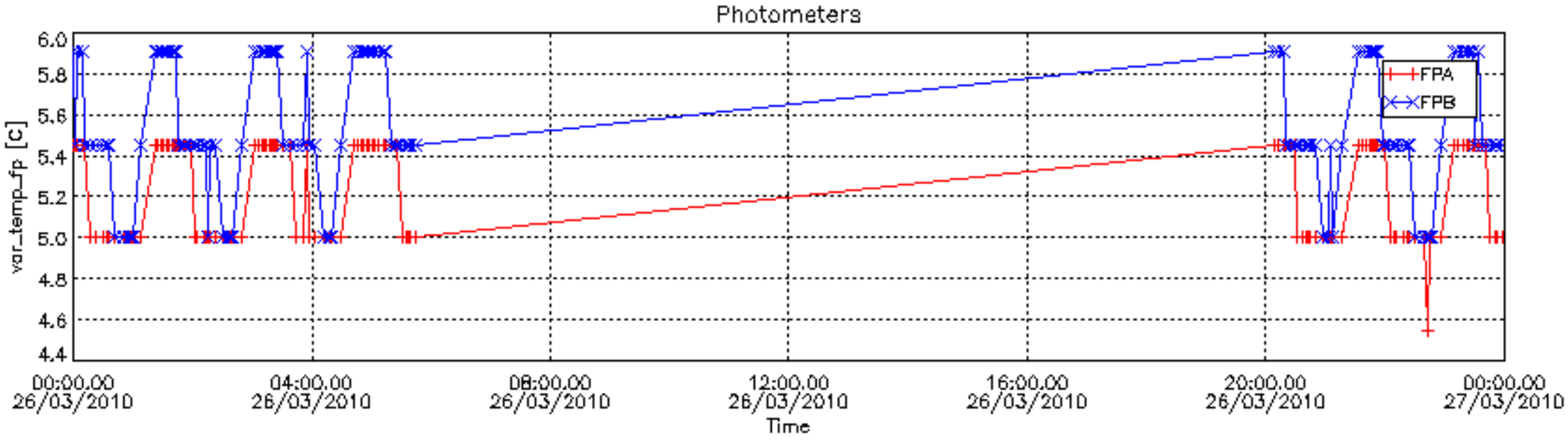
8. Auxiliary Data Files used for the production reported in section 2.4

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

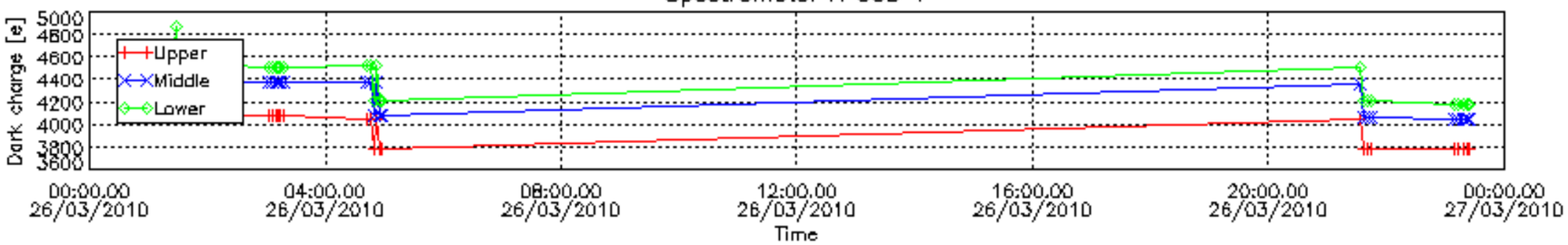
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-MAR-2010 00:00:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100324_131115_20100322_000000_20500101_000000	1	26-MAR-2010 00:00:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	26-MAR-2010 00:00:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-MAR-2010 00:00:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	26-MAR-2010 00:00:18
ECMWF_FILE	AUX_ECF_AXNECM20100325_052118_20100325_210000_20100326_090000	1	26-MAR-2010 00:00:18
ECMWF_FILE	AUX_ECF_AXNECM20100325_172116_20100326_030000_20100326_150000	59	26-MAR-2010 03:54:49
ECMWF_FILE	AUX_ECF_AXNECM20100326_054116_20100326_150000_20100327_030000	88	26-MAR-2010 20:07:37
ECMWF_FILE	AUX_ECF_AXNECM20100326_054117_20100326_210000_20100327_090000	106	26-MAR-2010 21:33:03
OPTIONAL_ECMWF_FILE	MISSING	1	26-MAR-2010 00:00:18
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100325_233431_000054192088_00044_42182_0033.N1	1	26-MAR-2010 00:00:18
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100326_011009_000095642088_00045_42183_0034.N1	19	26-MAR-2010 01:22:02
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100326_035452_000063762088_00047_42185_0035.N1	59	26-MAR-2010 03:54:49
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100326_200710_000038252088_00057_42195_0038.N1	88	26-MAR-2010 20:07:37
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20100326_211614_000057382088_00057_42195_0039.N1	106	26-MAR-2010 21:33:03
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100326_121309_20100325_184355_20100404_201008	129	26-MAR-2010 23:10:04


00:00.00
27/03/2010
20:00.00
26/03/2010
16:00.00
26/03/2010
12:00.00
26/03/2010
08:00.00
26/03/2010
04:00.00
26/03/2010
00:00.00
26/03/2010
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)

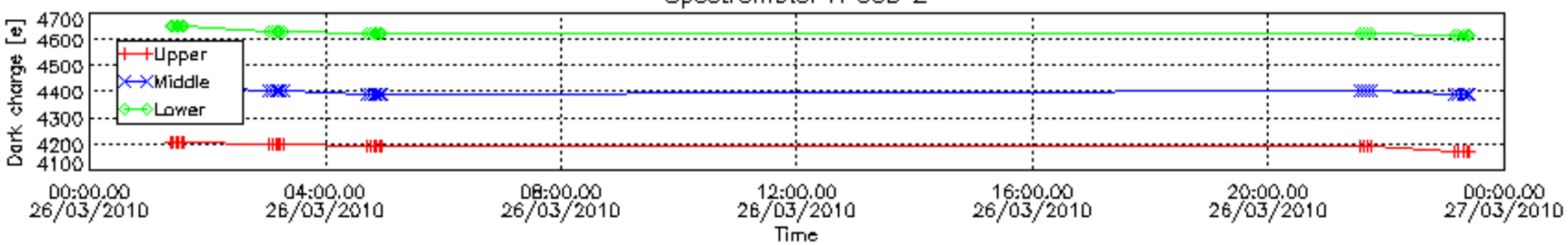

Spectrometers
var_temp_sp[C]
2.0
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
26/03/2010
04:00.00
26/03/2010
08:00.00
26/03/2010
12:00.00
26/03/2010
16:00.00
26/03/2010
20:00.00
26/03/2010
00:00.00
27/03/2010
Time


Photometers
var_temp_fp [C]
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
FPA
FPB
00:00.00
26/03/2010
04:00.00
26/03/2010
08:00.00
26/03/2010
12:00.00
26/03/2010
16:00.00
26/03/2010
20:00.00
26/03/2010
00:00.00
27/03/2010
Time

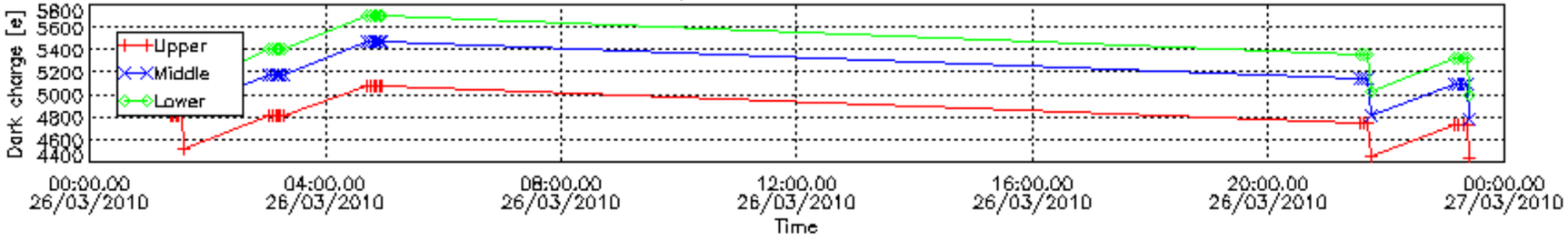
Spectrometer A CCD 1



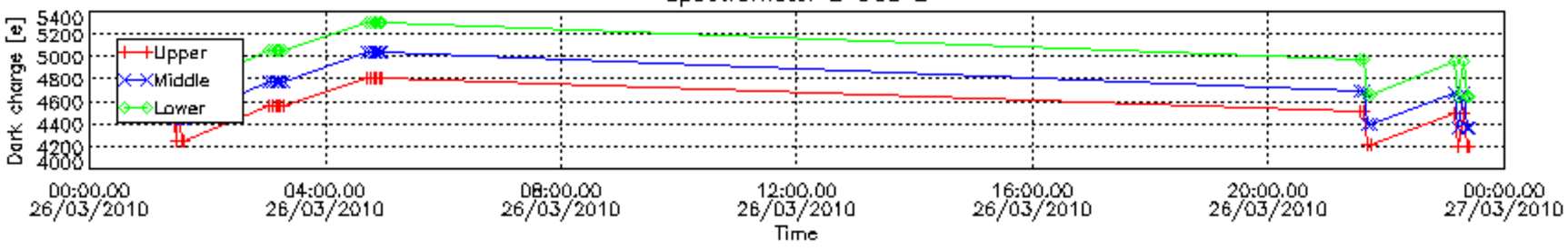
Spectrometer A CCD 2



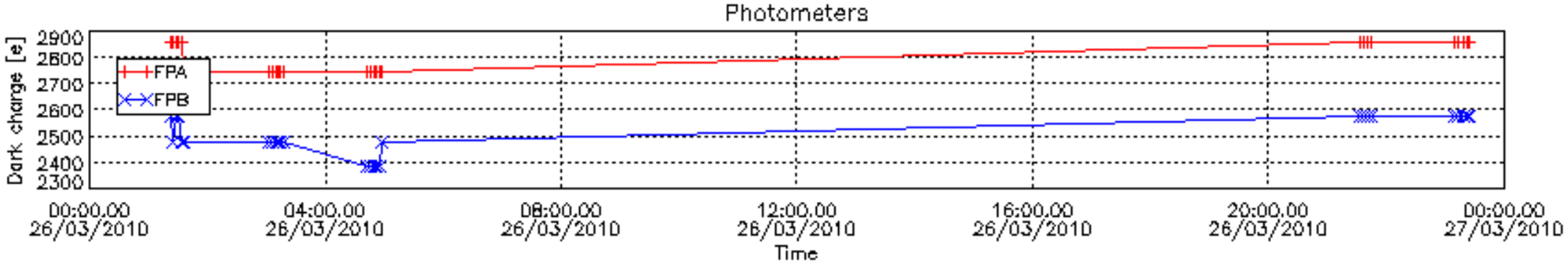
Spectrometer B CCD 1

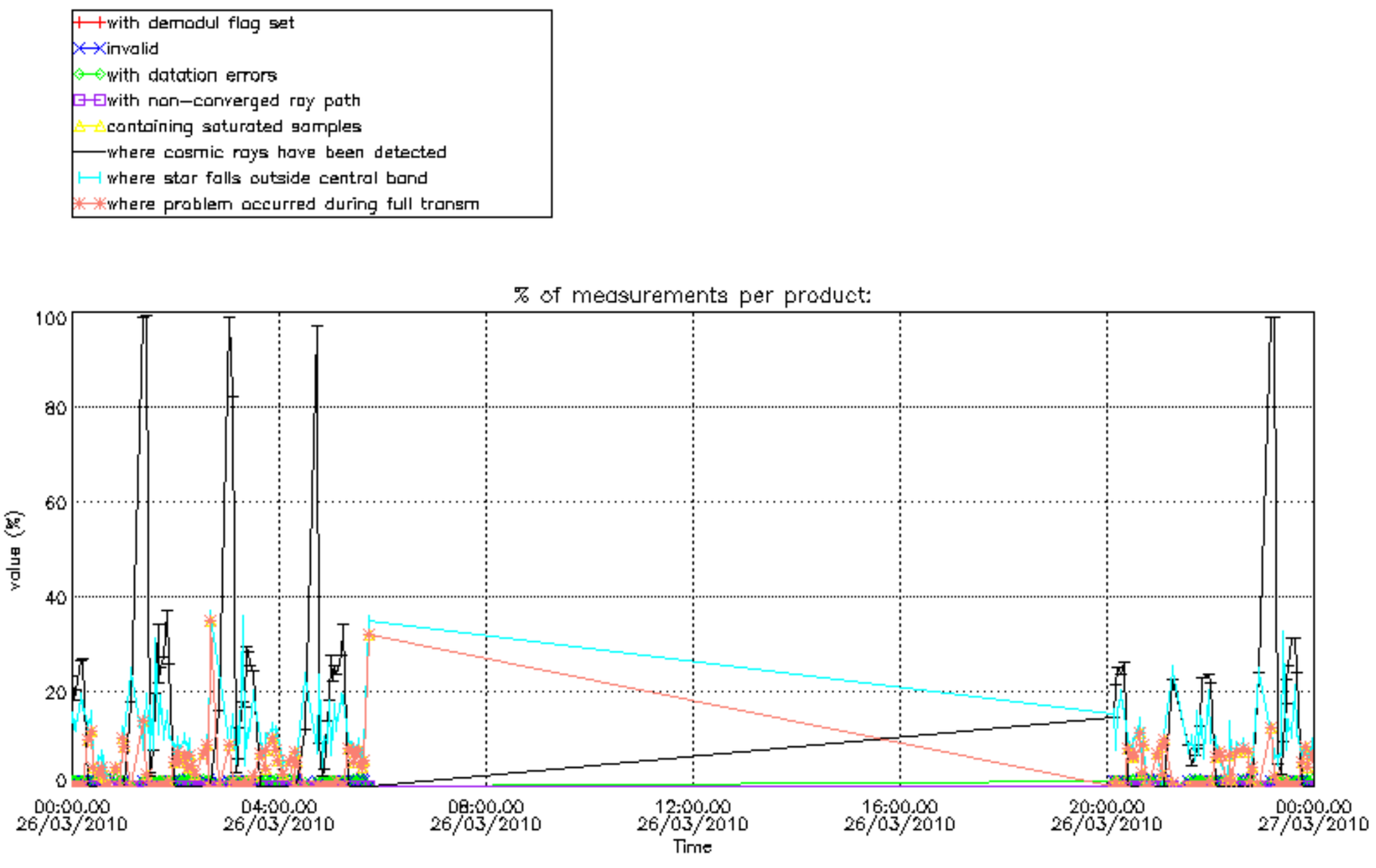


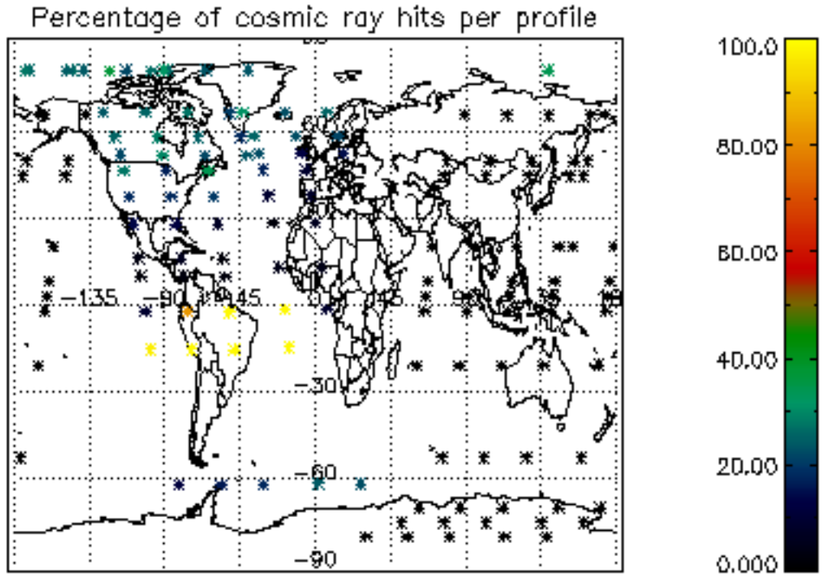
Spectrometer B CCD 2

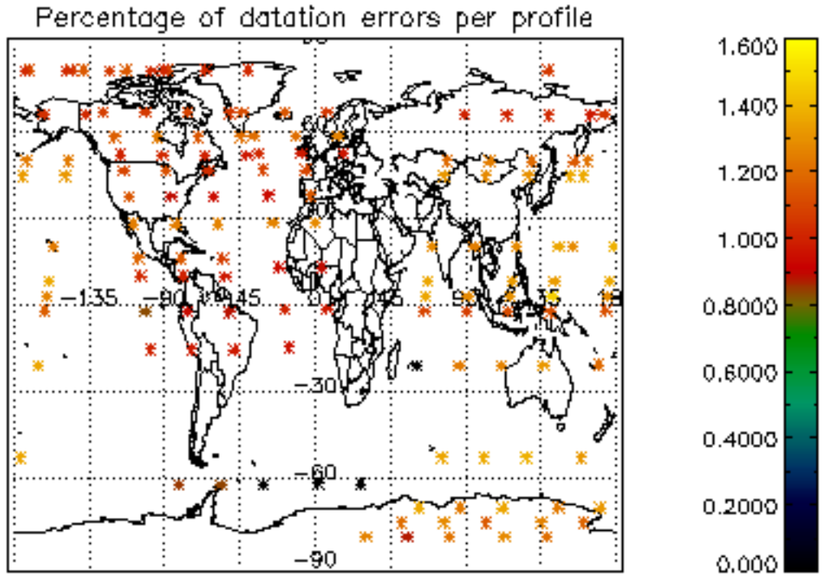


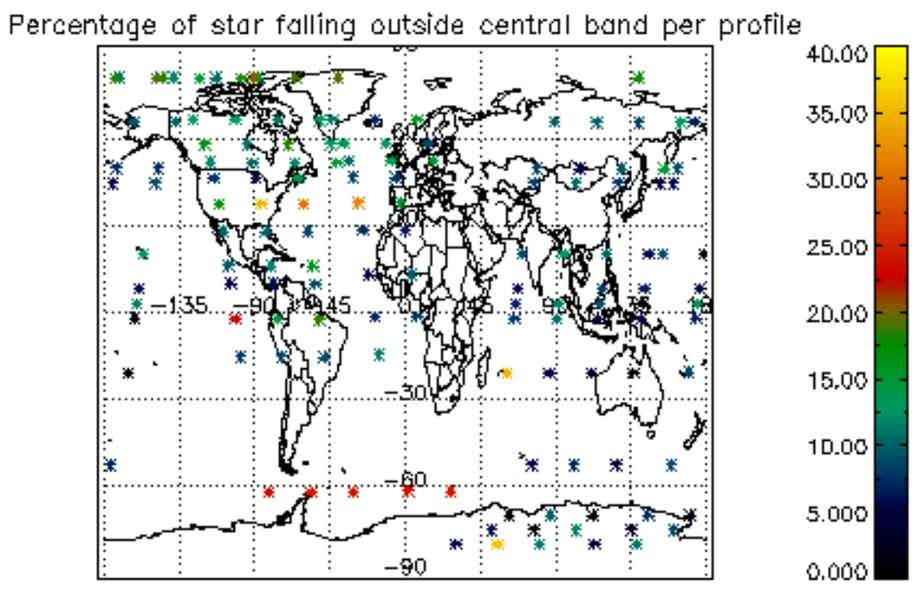
Photometers

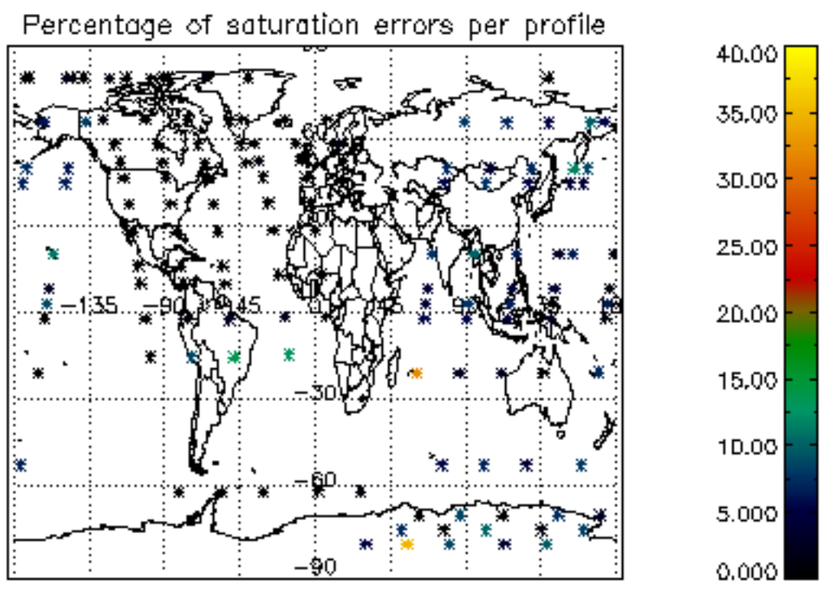



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 26/03/2010
04:00.00 26/03/2010
08:00.00 26/03/2010
12:00.00 26/03/2010
16:00.00 26/03/2010
20:00.00 26/03/2010
00:00.00 27/03/2010
Time

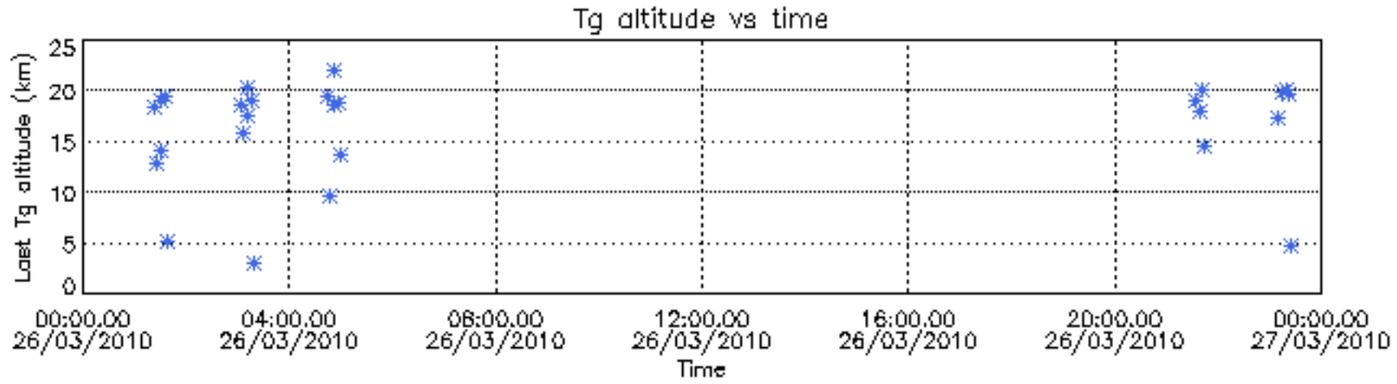

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
−30
−60
−90

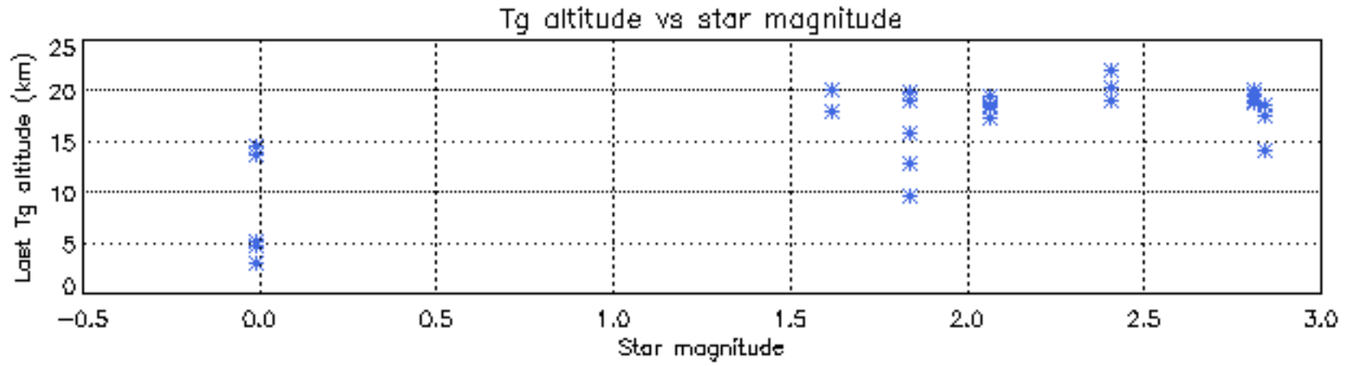

Percentage of datation errors per profile
1.600
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−45
−30
−60
−90

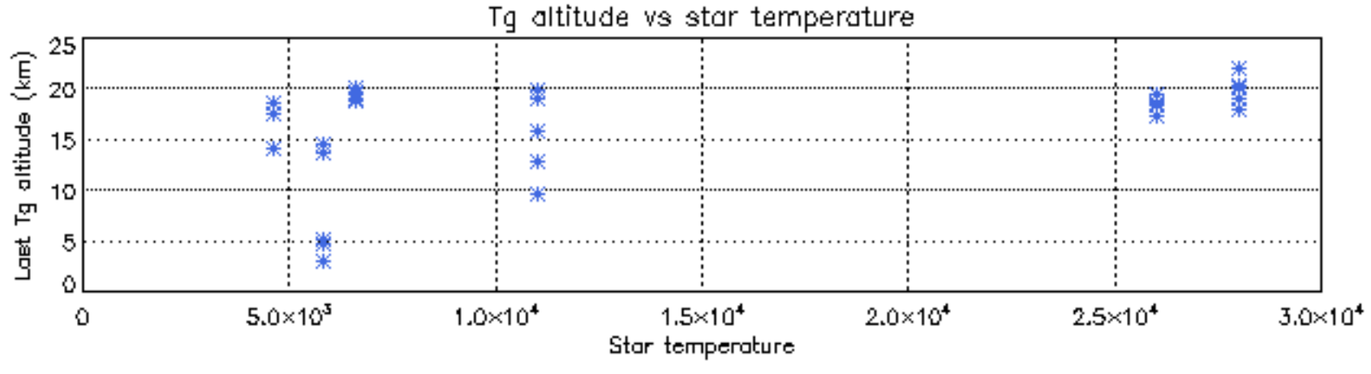

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
−30
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
−30
−60
−90

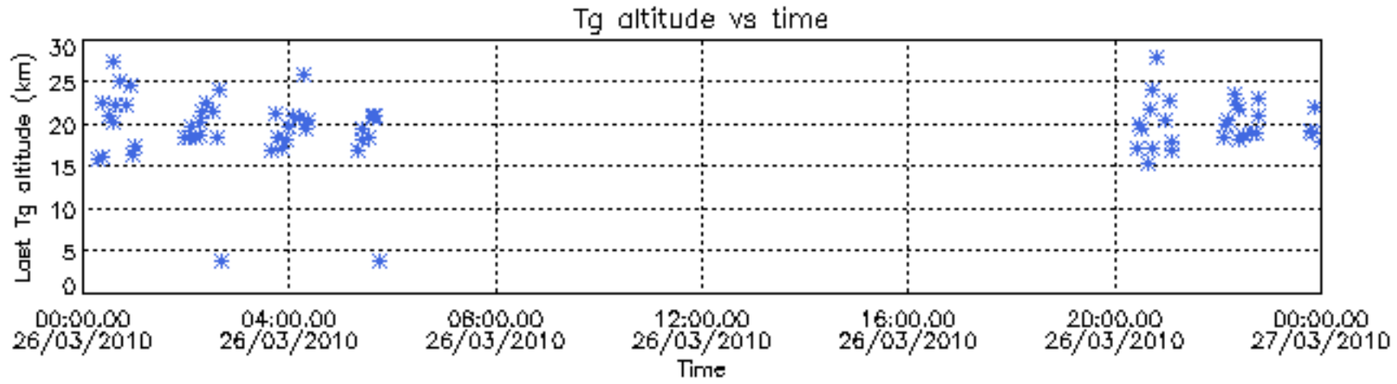
Tangent altitude at which the star is lost

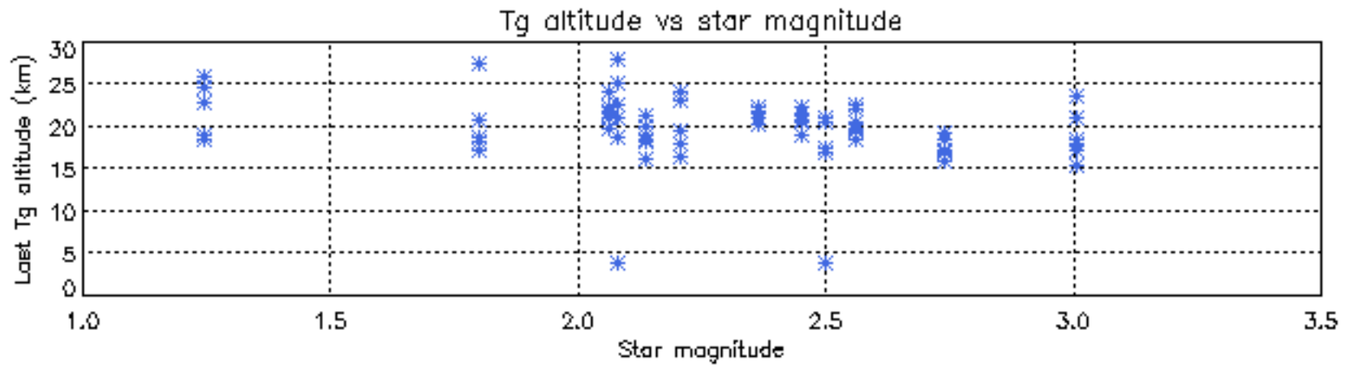


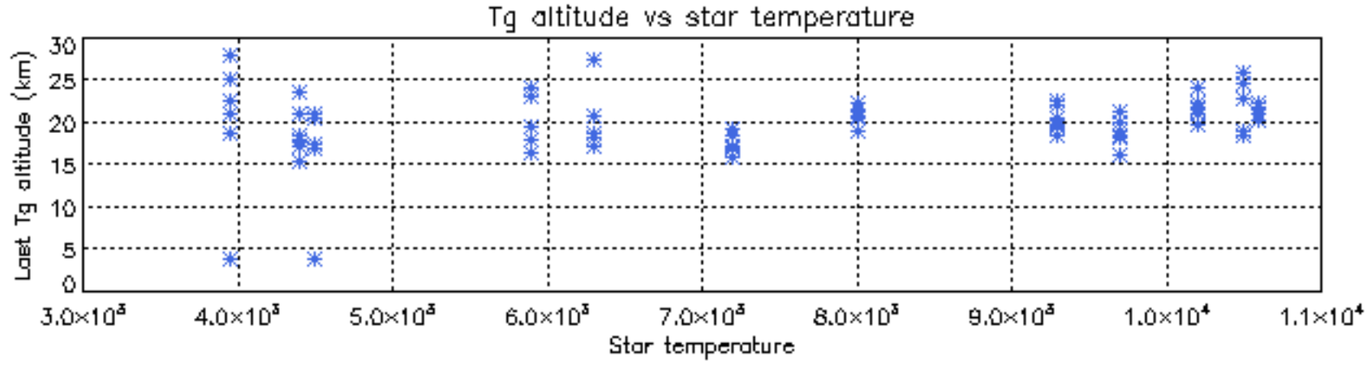


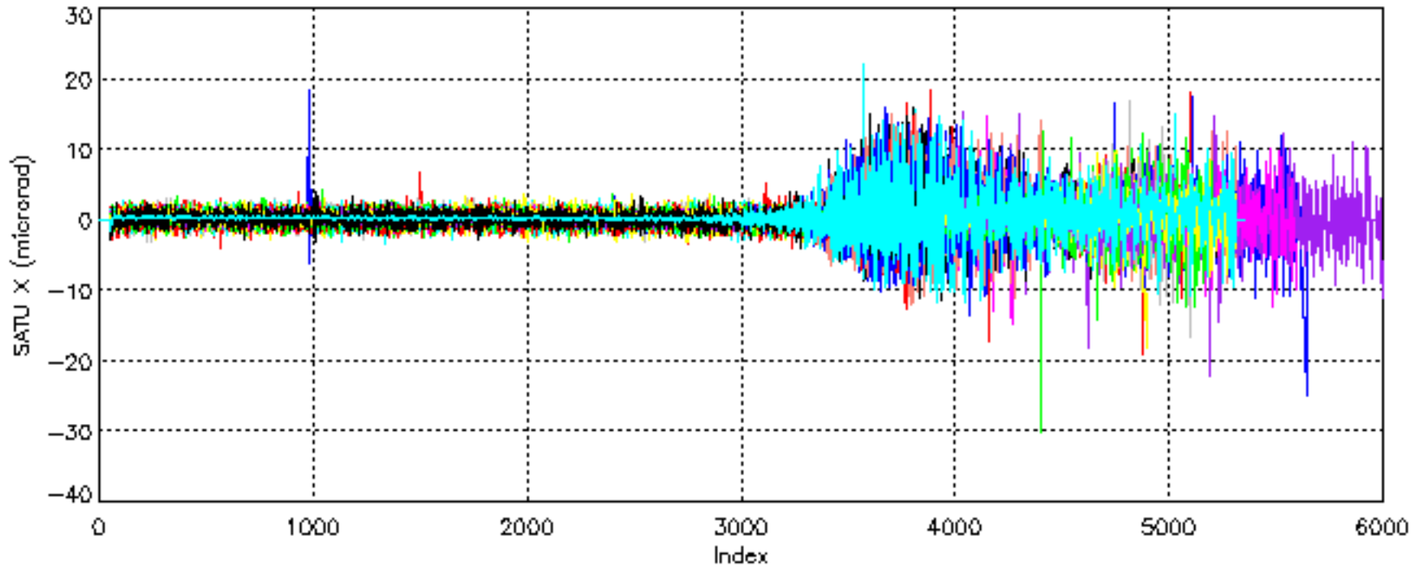


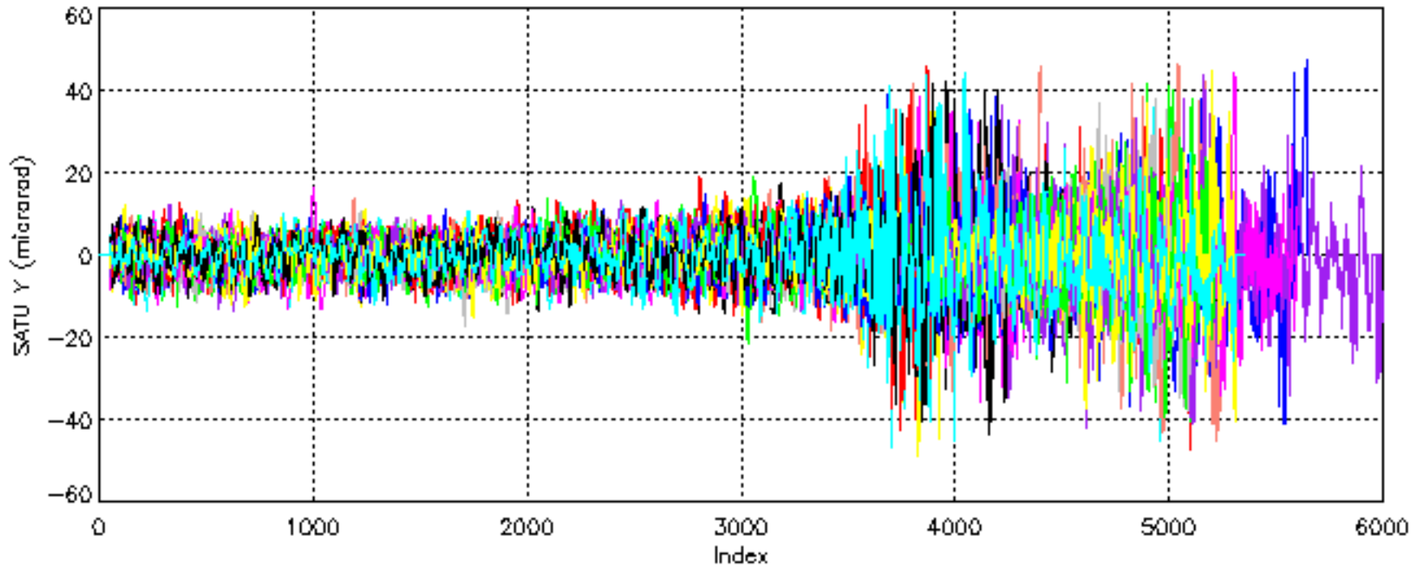
Tangent altitude at which the star is lost

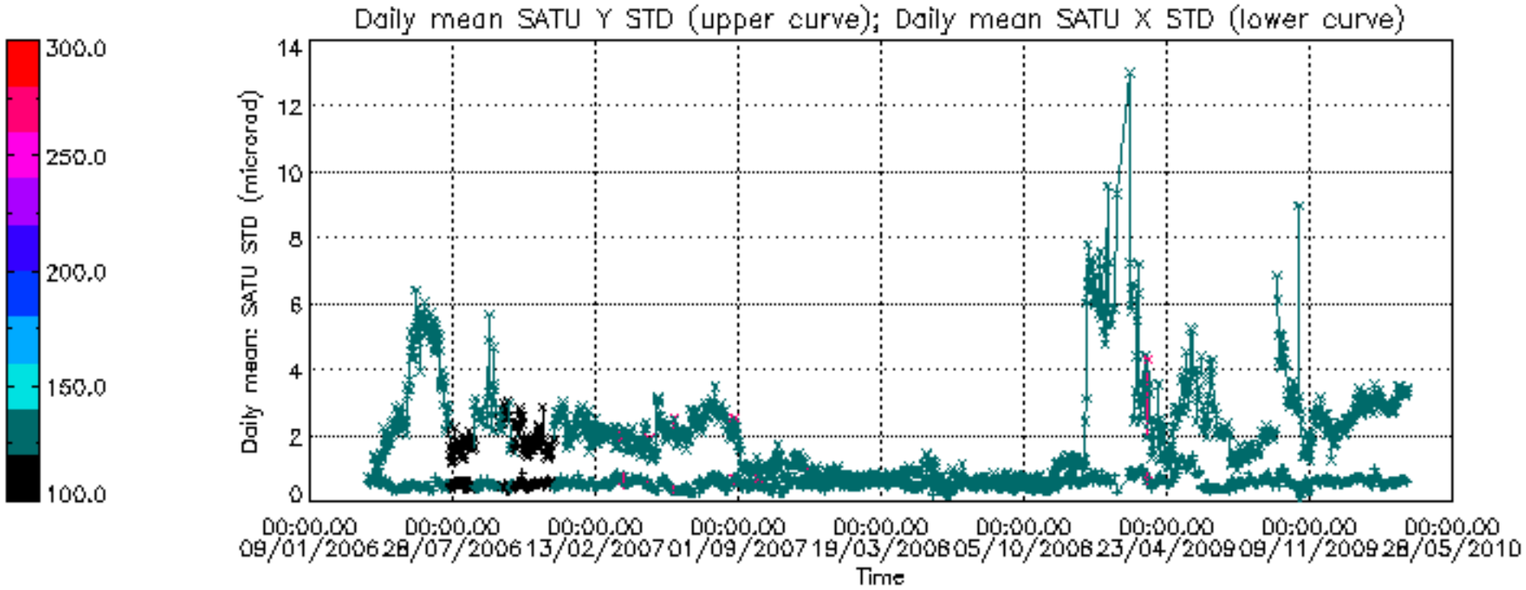







30
20
10
0
−10
−20
−30
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
Index


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


300.0
250.0
200.0
150.0
100.0
Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
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
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   5;  345.0; 04-MAR-2010 01:23:26; Dark  ;  50.5;  131;   Gam Lup  ; 2.80; 26000;occ; 101;   0;41869
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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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  13; 5888.1; 04-MAR-2010 04:36:25; Dark  ;  53.0;   25; 35Lam Sco  ; 1.62; 28000;occ; 106;   0;41870
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  25; 8999.2; 04-MAR-2010 05:28:16; Bright;  40.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  81;   0;41870
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  22; 6624.5; 10-MAR-2010 15:03:47; Dark  ;  50.0;   10;   Bet Cen  ; 0.61; 28000;occ; 100;   0;41962
  23; 6743.8; 10-MAR-2010 15:05:46; Dark  ;  42.5;   77;   Eps Cen  ; 2.30; 28000;occ;  85;   0;41962
  24; 6827.1; 10-MAR-2010 15:07:10; Dark  ;  52.0;   26;   Gam Cru  ; 1.62;  2900;occ; 104;   0;41962
  25; 6925.0; 10-MAR-2010 15:08:47; Dark  ;  43.5;   64;   Gam Cen  ; 2.20; 10600;occ;  87;   0;41962
  26; 7043.4; 10-MAR-2010 15:10:46; Dark  ;  54.5;  123;   Iot Cen  ; 2.75; 10200;occ; 109;   0;41962
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  17; 5978.2; 10-MAR-2010 16:33:37; Dark  ;  47.5;   25; 35Lam Sco  ; 1.62; 28000;occ;  95;   0;41963
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  12; 4217.6; 10-MAR-2010 19:25:28; Bright;  36.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  73;   0;41965
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  23; 3011.6; 11-MAR-2010 05:08:57; Bright;  44.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  88;   0;41971
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  27; 6216.0; 14-MAR-2010 02:46:55; Dark  ;  51.0;   75; 26Eps Sco  ; 2.29;  4250;occ; 102;   0;42012
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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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   5; 2245.7; 16-MAR-2010 20:44:42; Bright; 37.5;   51; 41Gam1Leo ; 2.01; 4500;occ; 75;   0;42052
   6; 2709.4; 16-MAR-2010 20:52:26; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80;   0;42052
   7; 2900.8; 16-MAR-2010 20:55:37; Bright; 37.0;   82; 48Bet UMa ; 2.37; 10600;occ; 74;   0;42052
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   4; -180.0; 16-MAR-2010 21:44:52; Dark ; 46.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 93;   0;42052
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   6; 177.8; 16-MAR-2010 21:50:50; Dark ; 42.5; 141;   Bet Ara ; 2.84; 4600;occ; 85;   0;42053
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  18; 3081.9; 16-MAR-2010 22:39:14; Bright; 46.0;   32; 77Eps UMa ; 1.76; 11000;occ; 92;   0;42053
  19; 3413.3; 16-MAR-2010 22:44:45; Bright; 40.0;   60; 7Bet UMi ; 2.08; 3950;occ; 80;   0;42053
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  23; 4408.6; 16-MAR-2010 23:01:21; Bright; 38.0;   92; 53Eps Cyg ; 2.50; 4500;occ; 76;   0;42053
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   6; 2901.5; 16-MAR-2010 17:34:26; Bright; 37.5;   82; 48Bet UMa ; 2.37; 10600;occ; 75;   0;42050
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   8; 3083.9; 16-MAR-2010 17:37:28; Bright; 45.5;   32; 77Eps UMa ; 1.76; 11000;occ; 91;   0;42050
   9; 3414.5; 16-MAR-2010 17:42:59; Bright; 42.5;   60; 7Bet UMi ; 2.08; 3950;occ; 85;   0;42050
  10; 3657.4; 16-MAR-2010 17:47:02; Bright; 50.5; 119; 14Eta Dra ; 2.73; 4700;occ; 101;   0;42050
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  11; 3639.4; 18-MAR-2010 20:04:42; Bright;  49.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  99;   0;42080
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   9;  796.5; 19-MAR-2010 01:59:42; Dark  ;  50.0;   81;   Eta Cen  ; 2.36; 28000;occ; 100;   0;42084
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   5;  125.8; 21-MAR-2010 22:33:05; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42125
   6;  227.5; 21-MAR-2010 22:34:46; Dark  ;  47.0;  141;   Bet Ara  ; 2.84;  4600;occ;  94;   0;42125
   7;  438.6; 21-MAR-2010 22:38:18; Dark  ;  39.5;  134;   Bet TrA  ; 2.81;  6600;occ;  79;   0;42125
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  16; 2189.9; 21-MAR-2010 23:07:29; Bright;  43.0;   62; 94Bet Leo  ; 2.14;  9700;occ;  86;   0;42125
  17; 2688.5; 21-MAR-2010 23:15:47; Bright;  39.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  79;   0;42125
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  19; 2975.3; 21-MAR-2010 23:20:34; Bright;  42.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  85;   0;42125
  20; 3096.4; 21-MAR-2010 23:22:35; Bright;  46.5;   55; 79Zet UMa  ; 2.06; 10200;occ;  93;   0;42125
  21; 3387.9; 21-MAR-2010 23:27:27; Bright;  42.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  84;   0;42125
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   6;  439.7; 22-MAR-2010 01:59:30; Dark  ;  39.0;  134;   Bet TrA  ; 2.81;  6600;occ;  78;   0;42127
   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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  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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   6;  248.1; 23-MAR-2010 23:12:29; Dark  ;  48.0;  141;   Bet Ara  ; 2.84;  4600;occ;  96;   0;42154
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   9;  759.9; 23-MAR-2010 23:21:01; Dark  ;  45.5;   78;   Alp Lup  ; 2.30; 28000;occ;  91;   0;42154
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  22; 3377.9; 24-MAR-2010 00:04:39; Bright;  39.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  79;   0;42154
  23; 3591.3; 24-MAR-2010 00:08:12; Bright;  45.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  91;   0;42154
  24; 3905.6; 24-MAR-2010 00:13:26; Bright;  37.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  75;   0;42154
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   7; 2971.4; 23-MAR-2010 17:15:29; Bright;  40.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  80;   0;42150
   8; 3078.2; 23-MAR-2010 17:17:15; Bright;  46.0;   55; 79Zet UMa  ; 2.06; 10200;occ;  92;   0;42150
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  12; 4214.6; 23-MAR-2010 17:36:12; Bright;  36.0;   19; 50Alp Cyg  ; 1.25; 10500;occ;  72;   0;42150
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  13;  972.8; 23-MAR-2010 18:22:46; Dark  ;  42.5;   64;   Gam Cen  ; 2.20; 10600;occ;  85;   0;42151
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  12; 3905.5; 23-MAR-2010 19:11:39; Bright;  34.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  68;   0;42151
  13; 4214.7; 23-MAR-2010 19:16:48; Bright;  36.5;   19; 50Alp Cyg  ; 1.25; 10500;occ;  73;   0;42151
  14; 4310.5; 23-MAR-2010 19:18:24; Bright;  41.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  82;   0;42151
  15; 4420.6; 23-MAR-2010 19:20:14; Bright;  40.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  80;   0;42151
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  22; 6489.0; 23-MAR-2010 19:54:42; Dark  ;  38.5;  134;   Bet TrA  ; 2.81;  6600;occ;  77;   0;42152
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  24; 6794.4; 23-MAR-2010 19:59:47; Dark  ;  46.0;   78;   Alp Lup  ; 2.30; 28000;occ;  92;   0;42152
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   3;  -41.0; 26-MAR-2010 01:25:38; Dark  ;  56.5;   38; 20Eps Sgr  ; 1.84; 11000;occ; 113;   0;42183
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  14; 1897.4; 26-MAR-2010 01:57:56; Bright;  49.0;  121; 29Gam Vir  ; 2.74;  7200;occ;  98;   0;42184
  15; 2174.6; 26-MAR-2010 02:02:33; Bright;  42.0;   62; 94Bet Leo  ; 2.14;  9700;occ;  84;   0;42184
  16; 2261.7; 26-MAR-2010 02:04:00; Bright;  38.5;   96; 68Del Leo  ; 2.56;  9300;occ;  77;   0;42184
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  24; 4311.4; 26-MAR-2010 02:38:10; Bright;  39.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  78;   0;42184
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  42; 8712.4; 26-MAR-2010 03:51:31; Bright;  40.0;  174; 52Psi UMa  ; 3.00;  4400;occ;  80;   0;42185
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   7; 4311.8; 26-MAR-2010 04:18:46; Bright;  41.5;   66; 37Gam Cyg  ; 2.21;  5900;occ;  83;   0;42185
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   9; 2675.1; 26-MAR-2010 20:37:29; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81;   0;42195
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  22; 4312.0; 26-MAR-2010 22:45:22; Bright; 39.5;   66; 37Gam Cyg ; 2.21; 5900;occ; 79;   0;42196
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  19; 6849.2; 29-MAR-2010 08:28:01; Dark  ;  46.0;   78;   Alp Lup  ; 2.30; 28000;occ;  92;   0;42231
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  21; 7113.7; 29-MAR-2010 10:13:01; Dark  ;  56.0;   54;  5The Cen  ; 2.06;  4500;occ; 112;   0;42232
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   6; 2668.1; 30-MAR-2010 15:09:42; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76;   0;42249

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  10; 3339.7; 31-MAR-2010 18:10:28; Bright;  36.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  73;   0;42265
  11; 3902.2; 31-MAR-2010 18:19:51; Bright;  36.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  73;   0;42265
  12; 4200.3; 31-MAR-2010 18:24:49; Bright;  45.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  90;   0;42265
  13; 4312.9; 31-MAR-2010 18:26:41; Bright;  43.5;   66; 37Gam Cyg  ; 2.21;  5900;occ;  87;   0;42265
  14; 4433.6; 31-MAR-2010 18:28:42; Bright;  60.0;   92; 53Eps Cyg  ; 2.50;  4500;occ; 120;   0;42265
  15; 5717.4; 31-MAR-2010 18:50:06; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;42265
  16; 5881.4; 31-MAR-2010 18:52:50; Dark  ;  57.0;   57; 34Sig Sgr  ; 2.07; 26000;occ; 114;   0;42265
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   2; 1459.0; 31-MAR-2010 19:19:44; Dark  ;  47.5;  106;  9Bet Crv  ; 2.65;  5600;occ;  95;   0;42266
   3; 1577.3; 31-MAR-2010 19:21:42; Dark  ;  44.5;  100;  4Gam Crv  ; 2.58; 13100;occ;  89;   0;42266
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