

# GOMOS Daily Report 25-MAY-2011

## Level 0 and Level 1 products

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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	29MAY2011 07:05:20
Data source version	GOMOS/5.01
Start time of products	25MAY2011 00:15:13
Stop time of products	25MAY2011 23:58:52
Store outputs in DB	Yes
Nb of level 1b prods	260
Nb of prods with errors	1

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

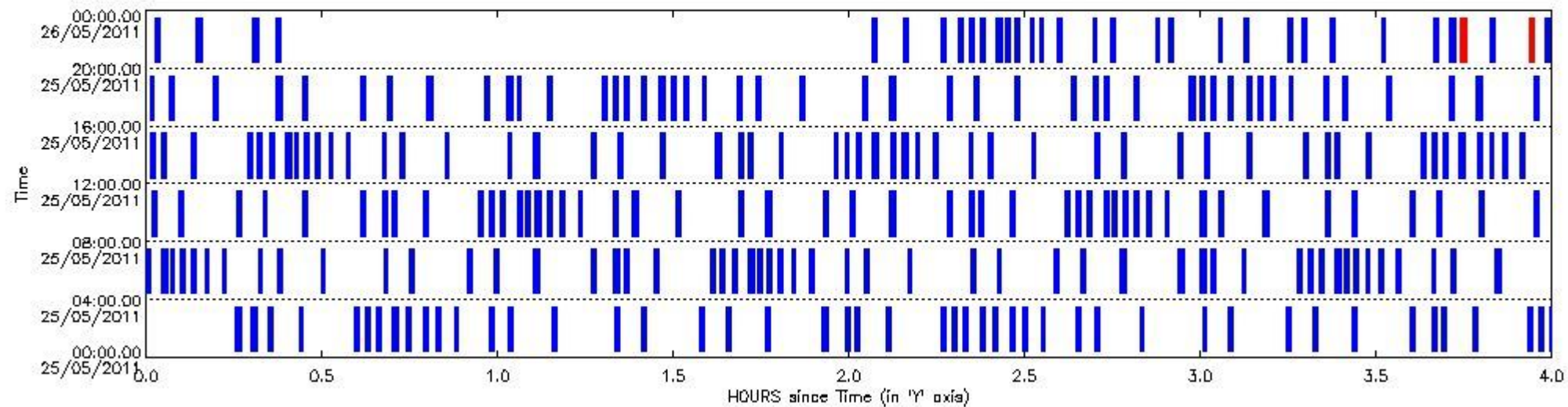
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-MAY-2011 23:44:21	AlpGru	31	48292
25-MAY-2011 23:56:09	BetAra	141	48292

### 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_1PNPDE20110525_001513_000000563102_00418_48277_8491.N1	25-MAY-2011 00:15:13	Dark	56.000	18	24Alp PsA	1.1660	9700.0	112	48277	No
2	GOM_TRA_1PNPDE20110525_002046_000000543102_00419_48278_8492.N1	25-MAY-2011 00:20:46	Dark	53.500	31	Alp Gru	1.7340	15200.	107	48278	No
3	GOM_TRA_1PNPDE20110525_002603_000000443102_00419_48278_8493.N1	25-MAY-2011 00:26:03	Dark	43.500	45	Alp Pav	1.9400	26000.	87	48278	No
4	GOM_TRA_1PNPDE20110525_003529_000000503102_00419_48278_8494.N1	25-MAY-2011 00:35:29	Straylight	49.500	40	The Sco	1.8590	7100.0	99	48278	No
5	GOM_TRA_1PNPDE20110525_003719_000000503102_00419_48278_8495.N1	25-MAY-2011 00:37:19	Straylight	50.000	25	35Lam Sco	1.6200	28000.	100	48278	No
6	GOM_TRA_1PNPDE20110525_003916_000000513102_00419_48278_8496.N1	25-MAY-2011 00:39:16	Twilight_stray	50.500	75	26Eps Sco	2.2910	4250.0	101	48278	No
7	GOM_TRA_1PNPDE20110525_004204_000000593102_00419_48278_8497.N1	25-MAY-2011 00:42:04	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48278	No
8	GOM_TRA_1PNPDE20110525_004424_000000413102_00419_48278_8498.N1	25-MAY-2011 00:44:24	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	48278	No
9	GOM_TRA_1PNPDE20110525_004714_000000463102_00419_48278_8499.N1	25-MAY-2011 00:47:14	Bright	46.000	98	13Zet Oph	2.5710	30000.	92	48278	No

10	GOM_TRA_1PNPDE20110525_004931_000000443102_00419_48278_8500.N1	25-MAY-2011 00:49:31	Bright	43.500	120	1Del Oph	2.7340	3200.0	87	48278	No
11	GOM_TRA_1PNPDE20110525_005234_000000393102_00419_48278_8501.N1	25-MAY-2011 00:52:34	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	48278	No
12	GOM_TRA_1PNPDE20110525_005836_000000403102_00419_48278_8502.N1	25-MAY-2011 00:58:36	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	48278	No
13	GOM_TRA_1PNPDE20110525_010151_000000483102_00419_48278_8503.N1	25-MAY-2011 01:01:51	Bright	47.500	133	40Zet Her	2.8070	6000.0	95	48278	No
14	GOM_TRA_1PNPDE20110525_010923_000000413102_00419_48278_8504.N1	25-MAY-2011 01:09:23	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	48278	No
15	GOM_TRA_1PNPDE20110525_012005_000000473102_00419_48278_8505.N1	25-MAY-2011 01:20:05	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	48278	No
16	GOM_TRA_1PNPDE20110525_012433_000000483102_00419_48278_8506.N1	25-MAY-2011 01:24:33	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	48278	No
17	GOM_TRA_1PNPDE20110525_013421_000000493102_00419_48278_8507.N1	25-MAY-2011 01:34:21	Tw_i_and_stray	49.000	58	21Alp And	2.0730	11000.	98	48278	No
18	GOM_TRA_1PNPDE20110525_013853_000000483102_00419_48278_8508.N1	25-MAY-2011 01:38:53	Dark	47.500	140	88Gam Peg	2.8340	26000.	95	48278	No
19	GOM_TRA_1PNPDE20110525_015528_000000653102_00419_48278_8506.N1	25-MAY-2011 01:55:28	Dark	64.500	18	24Alp PsA	1.1660	9700.0	129	48278	No
20	GOM_TRA_1PNPDE20110525_015917_000000593102_00419_48278_8507.N1	25-MAY-2011 01:59:17	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	48278	No
21	GOM_TRA_1PNPDE20110525_020101_000000473102_00420_48279_8508.N1	25-MAY-2011 02:01:01	Dark	47.000	31	Alp Gru	1.7340	15200.	94	48279	No
22	GOM_TRA_1PNPDE20110525_020618_000000443102_00420_48279_8509.N1	25-MAY-2011 02:06:18	Dark	43.500	45	Alp Pav	1.9400	26000.	87	48279	No
23	GOM_TRA_1PNPDE20110525_021543_000000473102_00420_48279_8510.N1	25-MAY-2011 02:15:43	Straylight	47.000	40	The Sco	1.8590	7100.0	94	48279	No
24	GOM_TRA_1PNPDE20110525_021733_000000503102_00420_48279_8511.N1	25-MAY-2011 02:17:33	Straylight	50.000	25	35Lam Sco	1.6200	28000.	100	48279	No
25	GOM_TRA_1PNPDE20110525_021931_000000493102_00420_48279_8512.N1	25-MAY-2011 02:19:31	Tw_i_and_stray	48.500	75	26Eps Sco	2.2910	4250.0	97	48279	No
26	GOM_TRA_1PNPDE20110525_022218_000000593102_00420_48279_8513.N1	25-MAY-2011 02:22:18	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48279	No
27	GOM_TRA_1PNPDE20110525_022438_000000413102_00420_48279_8514.N1	25-MAY-2011 02:24:38	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	48279	No
28	GOM_TRA_1PNPDE20110525_022728_000000463102_00420_48279_8515.N1	25-MAY-2011 02:27:28	Bright	46.000	98	13Zet Oph	2.5710	30000.	92	48279	No
29	GOM_TRA_1PNPDE20110525_022945_000000433102_00420_48279_8516.N1	25-MAY-2011 02:29:45	Bright	43.000	120	1Del Oph	2.7340	3200.0	86	48279	No
30	GOM_TRA_1PNPDE20110525_023247_000000403102_00420_48279_8517.N1	25-MAY-2011 02:32:47	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	48279	No
31	GOM_TRA_1PNPDE20110525_023850_000000413102_00420_48279_8518.N1	25-MAY-2011 02:38:50	Bright	40.500	67	5Alp CrB	2.2210	11000.	81	48279	No
32	GOM_TRA_1PNPDE20110525_024205_000000483102_00420_48279_8519.N1	25-MAY-2011 02:42:05	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	48279	No
33	GOM_TRA_1PNPDE20110525_024936_000000403102_00420_48279_8520.N1	25-MAY-2011 02:49:36	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	48279	No
34	GOM_TRA_1PNPDE20110525_030019_000000483102_00420_48279_8531.N1	25-MAY-2011 03:00:19	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	48279	No
35	GOM_TRA_1PNPDE20110525_030447_000000383102_00420_48279_8532.N1	25-MAY-2011 03:04:47	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	48279	No
36	GOM_TRA_1PNPDE20110525_031435_000000503102_00420_48279_8533.N1	25-MAY-2011 03:14:35	Tw_i_and_stray	50.000	58	21Alp And	2.0730	11000.	100	48279	No
37	GOM_TRA_1PNPDE20110525_031907_000000493102_00420_48279_8534.N1	25-MAY-2011 03:19:07	Dark	49.000	140	88Gam Peg	2.8340	26000.	98	48279	No
38	GOM_TRA_1PNPDE20110525_033543_000000483102_00420_48279_8535.N1	25-MAY-2011 03:35:43	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	48279	No
39	GOM_TRA_1PNPDE20110525_033932_000000483102_00420_48279_8536.N1	25-MAY-2011 03:39:32	Dark	47.500	63	Bet Gru	2.1500	2800.0	95	48279	No
40	GOM_TRA_1PNPDE20110525_034116_000000453102_00421_48280_8537.N1	25-MAY-2011 03:41:16	Dark	44.500	31	Alp Gru	1.7340	15200.	89	48280	No
41	GOM_TRA_1PNPDE20110525_034633_000000433102_00421_48280_8538.N1	25-MAY-2011 03:46:33	Dark	43.000	45	Alp Pav	1.9400	26000.	86	48280	No
42	GOM_TRA_1PNPDE20110525_035558_000000513102_00421_48280_8539.N1	25-MAY-2011 03:55:58	Straylight	51.000	40	The Sco	1.8590	7100.0	102	48280	No
43	GOM_TRA_1PNPDE20110525_035748_000000463102_00421_48280_8540.N1	25-MAY-2011 03:57:48	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	48280	No
44	GOM_TRA_1PNPDE20110525_035945_000000523102_00421_48280_8541.N1	25-MAY-2011 03:59:45	Tw_i_and_stray	52.000	75	26Eps Sco	2.2910	4250.0	104	48280	No
45	GOM_TRA_1PNPDE20110525_040232_000000593102_00421_48280_8542.N1	25-MAY-2011 04:02:32	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48280	No
46	GOM_TRA_1PNPDE20110525_040405_000000433102_00421_48280_8543.N1	25-MAY-2011 04:04:05	Bright	42.500	80	7Del Sco	2.3160	30000.	85	48280	No
47	GOM_TRA_1PNPDE20110525_040544_000000513102_00421_48280_8544.N1	25-MAY-2011 04:05:44	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	48280	No
48	GOM_TRA_1PNPDE20110525_040742_000000453102_00421_48280_8545.N1	25-MAY-2011 04:07:42	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	48280	No
49	GOM_TRA_1PNPDE20110525_040959_000000433102_00421_48280_8546.N1	25-MAY-2011 04:09:59	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	48280	No
50	GOM_TRA_1PNPDE20110525_041302_000000393102_00421_48280_8547.N1	25-MAY-2011 04:13:02	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	48280	No
51	GOM_TRA_1PNPDE20110525_041904_000000393102_00421_48280_8548.N1	25-MAY-2011 04:19:04	Bright	39.000	67	5Alp CrB	2.2210	11000.	78	48280	No
52	GOM_TRA_1PNPDE20110525_042218_000000483102_00421_48280_8549.N1	25-MAY-2011 04:22:18	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	48280	No
53	GOM_TRA_1PNPDE20110525_042950_000000383102_00421_48280_8550.N1	25-MAY-2011 04:29:50	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	48280	No
54	GOM_TRA_1PNPDE20110525_044032_000000453102_00421_48280_8554.N1	25-MAY-2011 04:40:32	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48280	No
55	GOM_TRA_1PNPDE20110525_044501_000000393102_00421_48280_8555.N1	25-MAY-2011 04:45:01	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	48280	No
56	GOM_TRA_1PNPDE20110525_045449_000000503102_00421_48280_8556.N1	25-MAY-2011 04:54:49	Tw_i_and_stray	49.500	58	21Alp And	2.0730	11000.	99	48280	No
57	GOM_TRA_1PNPDE20110525_045922_000000473102_00421_48280_8557.N1	25-MAY-2011 04:59:22	Dark	46.500	140	88Gam Peg	2.8340	26000.	93	48280	No
58	GOM_TRA_1PNPDE20110525_051558_000000543102_00421_48280_8558.N1	25-MAY-2011 05:15:58	Dark	54.000	18	24Alp PsA	1.1660	9700.0	108	48280	No
59	GOM_TRA_1PNPDE20110525_051947_000000603102_00421_48280_8559.N1	25-MAY-2011 05:19:47	Dark	59.500	63	Bet Gru	2.1500	2800.0	119	48280	No
60	GOM_TRA_1PNPDE20110525_052131_000000463102_00422_48281_8560.N1	25-MAY-2011 05:21:31	Dark	46.000	31	Alp Gru	1.7340	15200.	92	48281	No
61	GOM_TRA_1PNPDE20110525_052647_000000433102_00422_48281_8561.N1	25-MAY-2011 05:26:47	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48281	No
62	GOM_TRA_1PNPDE20110525_053613_000000503102_00422_48281_8562.N1	25-MAY-2011 05:36:13	Straylight	49.500	40	The Sco	1.8590	7100.0	99	48281	No
63	GOM_TRA_1PNPDE20110525_053802_000000493102_00422_48281_8563.N1	25-MAY-2011 05:38:02	Straylight	48.500	25	35Lam Sco	1.6200	28000.	97	48281	No
64	GOM_TRA_1PNPDE20110525_054000_000000483102_00422_48281_8564.N1	25-MAY-2011 05:40:00	Tw_i_and_stray	47.500	75	26Eps Sco	2.2910	4250.0	95	48281	No
65	GOM_TRA_1PNPDE20110525_054247_000000593102_00422_48281_8565.N1	25-MAY-2011 05:42:47	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48281	No
66	GOM_TRA_1PNPDE20110525_054419_000000443102_00422_48281_8566.N1	25-MAY-2011 05:44:19	Bright	44.000	80	7Del Sco	2.3160	30000.	88	48281	No
67	GOM_TRA_1PNPDE20110525_054558_000000513102_00422_48281_8567.N1	25-MAY-2011 05:45:58	Bright	50.500	86	35Eta Oph	2.4300	10200.	101	48281	No
68	GOM_TRA_1PNPDE20110525_054757_000000453102_00422_48281_8568.N1	25-MAY-2011 05:47:57	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	48281	No



69	GOM_TRA_1PNPDE20110525_055013_000000423102_00422_48281_8569.N1	25-MAY-2011 05:50:13	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	48281	No
70	GOM_TRA_1PNPDE20110525_055316_000000403102_00422_48281_8570.N1	25-MAY-2011 05:53:16	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	48281	No
71	GOM_TRA_1PNPDE20110525_055918_000000403102_00422_48281_8571.N1	25-MAY-2011 05:59:18	Bright	39.500	67	5Alp CrB	2.2210	11000.	79	48281	No
72	GOM_TRA_1PNPDE20110525_060232_000000483102_00422_48281_8572.N1	25-MAY-2011 06:02:32	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	48281	No
73	GOM_TRA_1PNPDE20110525_061004_000000403102_00422_48281_8573.N1	25-MAY-2011 06:10:04	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	48281	No
74	GOM_TRA_1PNPDK20110525_062046_000000463102_00422_48281_2084.N1	25-MAY-2011 06:20:46	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48281	No
75	GOM_TRA_1PNPDK20110525_062515_000000383102_00422_48281_2085.N1	25-MAY-2011 06:25:15	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	48281	No
76	GOM_TRA_1PNPDK20110525_063504_000000513102_00422_48281_2086.N1	25-MAY-2011 06:35:04	Twilight	51.000	58	21Alp And	2.0730	11000.	102	48281	No
77	GOM_TRA_1PNPDK20110525_063937_000000483102_00422_48281_2087.N1	25-MAY-2011 06:39:37	Dark	48.000	140	88Gam Peg	2.8340	26000.	96	48281	No
78	GOM_TRA_1PNPDK20110525_065613_000000553102_00422_48281_2088.N1	25-MAY-2011 06:56:13	Dark	55.000	18	24Alp PsA	1.1660	9700.0	110	48281	No
79	GOM_TRA_1PNPDK20110525_070002_000000513102_00422_48281_2089.N1	25-MAY-2011 07:00:02	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	48281	No
80	GOM_TRA_1PNPDK20110525_070146_000000463102_00423_48282_2090.N1	25-MAY-2011 07:01:46	Dark	46.000	31	Alp Gru	1.7340	15200.	92	48282	No
81	GOM_TRA_1PNPDK20110525_070702_000000443102_00423_48282_2091.N1	25-MAY-2011 07:07:02	Dark	44.000	45	Alp Pav	1.9400	26000.	88	48282	No
82	GOM_TRA_1PNPDK20110525_071627_000000503102_00423_48282_2092.N1	25-MAY-2011 07:16:27	Straylight	49.500	40	The Sco	1.8590	7100.0	99	48282	No
83	GOM_TRA_1PNPDK20110525_071817_000000523102_00423_48282_2093.N1	25-MAY-2011 07:18:17	Straylight	51.500	25	35Lam Sco	1.6200	28000.	103	48282	No
84	GOM_TRA_1PNPDK20110525_072014_000000473102_00423_48282_2094.N1	25-MAY-2011 07:20:14	Twilight	47.000	75	26Eps Sco	2.2910	4250.0	94	48282	No
85	GOM_TRA_1PNPDK20110525_072301_000000593102_00423_48282_2095.N1	25-MAY-2011 07:23:01	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48282	No
86	GOM_TRA_1PNPDK20110525_072433_000000423102_00423_48282_2096.N1	25-MAY-2011 07:24:33	Bright	42.000	80	7Del Sco	2.3160	30000.	84	48282	No
87	GOM_TRA_1PNPDK20110525_072612_000000503102_00423_48282_2097.N1	25-MAY-2011 07:26:12	Bright	49.500	86	35Eta Oph	2.4300	10200.	99	48282	No
88	GOM_TRA_1PNPDK20110525_072810_000000463102_00423_48282_2117.N1	25-MAY-2011 07:28:10	Bright	45.500	98	13Zet Oph	2.5710	30000.	91	48282	No
89	GOM_TRA_1PNPDK20110525_073027_000000433102_00423_48282_2118.N1	25-MAY-2011 07:30:27	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	48282	No
90	GOM_TRA_1PNPDK20110525_073329_000000393102_00423_48282_2119.N1	25-MAY-2011 07:33:29	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	48282	No
91	GOM_TRA_1PNPDK20110525_073932_000000393102_00423_48282_2120.N1	25-MAY-2011 07:39:32	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	48282	No
92	GOM_TRA_1PNPDK20110525_074245_000000473102_00423_48282_2121.N1	25-MAY-2011 07:42:45	Bright	46.500	133	40Zet Her	2.8070	6000.0	93	48282	No
93	GOM_TRA_1PNPDK20110525_075018_000000583102_00423_48282_2122.N1	25-MAY-2011 07:50:18	Bright	58.000	119	14Eta Dra	2.7270	4700.0	116	48282	No
94	GOM_TRA_1PNPDK20110525_080059_000000463102_00423_48282_2123.N1	25-MAY-2011 08:00:59	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48282	No
95	GOM_TRA_1PNPDK20110525_080529_000000543102_00423_48282_2124.N1	25-MAY-2011 08:05:29	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	48282	No
96	GOM_TRA_1PNPDK20110525_081518_000000523102_00423_48282_2125.N1	25-MAY-2011 08:15:18	Twilight	51.500	58	21Alp And	2.0730	11000.	103	48282	No
97	GOM_TRA_1PNPDK20110525_081951_000000473102_00423_48282_2126.N1	25-MAY-2011 08:19:51	Dark	46.500	140	88Gam Peg	2.8340	26000.	93	48282	No
98	GOM_TRA_1PNPDK20110525_083628_000000603102_00423_48282_2127.N1	25-MAY-2011 08:36:28	Dark	60.000	18	24Alp PsA	1.1660	9700.0	120	48282	No
99	GOM_TRA_1PNPDK20110525_084017_000000593102_00423_48282_2128.N1	25-MAY-2011 08:40:17	Dark	59.000	63	Bet Gru	2.1500	2800.0	118	48282	No
100	GOM_TRA_1PNPDK20110525_084201_000000493102_00424_48283_2129.N1	25-MAY-2011 08:42:01	Dark	49.000	31	Alp Gru	1.7340	15200.	98	48283	No
101	GOM_TRA_1PNPDK20110525_084717_000000453102_00424_48283_2130.N1	25-MAY-2011 08:47:17	Dark	44.500	45	Alp Pav	1.9400	26000.	89	48283	No
102	GOM_TRA_1PNPDK20110525_085642_000000473102_00424_48283_2131.N1	25-MAY-2011 08:56:42	Straylight	47.000	40	The Sco	1.8590	7100.0	94	48283	No
103	GOM_TRA_1PNPDK20110525_085831_000000473102_00424_48283_2132.N1	25-MAY-2011 08:58:31	Straylight	46.500	25	35Lam Sco	1.6200	28000.	93	48283	No
104	GOM_TRA_1PNPDK20110525_090028_000000523102_00424_48283_2133.N1	25-MAY-2011 09:00:28	Twilight	51.500	75	26Eps Sco	2.2910	4250.0	103	48283	No
105	GOM_TRA_1PNPDK20110525_090315_000000543102_00424_48283_2134.N1	25-MAY-2011 09:03:15	Bright	54.000	16	21Alp Sco	1.0200	3000.0	108	48283	No
106	GOM_TRA_1PNPDK20110525_090447_000000433102_00424_48283_2135.N1	25-MAY-2011 09:04:47	Bright	43.000	80	7Del Sco	2.3160	30000.	86	48283	No
107	GOM_TRA_1PNPDK20110525_090627_000000503102_00424_48283_2136.N1	25-MAY-2011 09:06:27	Bright	50.000	86	35Eta Oph	2.4300	10200.	100	48283	No
108	GOM_TRA_1PNPDK20110525_090825_000000453102_00424_48283_2203.N1	25-MAY-2011 09:08:25	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	48283	Yes
109	GOM_TRA_1PNPDK20110525_091041_000000433102_00424_48283_2204.N1	25-MAY-2011 09:10:41	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	48283	No
110	GOM_TRA_1PNPDK20110525_091343_000000393102_00424_48283_2205.N1	25-MAY-2011 09:13:43	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	48283	No
111	GOM_TRA_1PNPDK20110525_091945_000000403102_00424_48283_2206.N1	25-MAY-2011 09:19:45	Bright	40.000	67	5Alp CrB	2.2210	11000.	80	48283	No
112	GOM_TRA_1PNPDK20110525_092258_000000693102_00424_48283_2207.N1	25-MAY-2011 09:22:58	Bright	69.000	133	40Zet Her	2.8070	6000.0	138	48283	No
113	GOM_TRA_1PNPDK20110525_093031_000000403102_00424_48283_2208.N1	25-MAY-2011 09:30:31	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	48283	No
114	GOM_TRA_1PNPDK20110525_094113_000000463102_00424_48283_2209.N1	25-MAY-2011 09:41:13	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48283	No
115	GOM_TRA_1PNPDK20110525_094543_000000583102_00424_48283_2210.N1	25-MAY-2011 09:45:43	Bright	58.000	74	11Bet Cas	2.2680	6600.0	116	48283	No
116	GOM_TRA_1PNPDK20110525_095532_000000503102_00424_48283_2211.N1	25-MAY-2011 09:55:32	Twilight	49.500	58	21Alp And	2.0730	11000.	99	48283	No
117	GOM_TRA_1PNPDK20110525_100005_000000483102_00424_48283_2212.N1	25-MAY-2011 10:00:05	Dark	48.000	140	88Gam Peg	2.8340	26000.	96	48283	No
118	GOM_TRA_1PNPDK20110525_101643_000000523102_00424_48283_2213.N1	25-MAY-2011 10:16:43	Dark	51.500	18	24Alp PsA	1.1660	9700.0	103	48283	No
119	GOM_TRA_1PNPDK20110525_102032_000000503102_00424_48283_2214.N1	25-MAY-2011 10:20:32	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	48283	No
120	GOM_TRA_1PNPDK20110525_102216_000000453102_00425_48284_2215.N1	25-MAY-2011 10:22:16	Dark	44.500	31	Alp Gru	1.7340	15200.	89	48284	No
121	GOM_TRA_1PNPDK20110525_102732_000000433102_00425_48284_2216.N1	25-MAY-2011 10:27:32	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48284	No
122	GOM_TRA_1PNPDK20110525_103656_000000493102_00425_48284_2217.N1	25-MAY-2011 10:36:56	Straylight	49.000	40	The Sco	1.8590	7100.0	98	48284	No
123	GOM_TRA_1PNPDK20110525_103846_000000493102_00425_48284_2218.N1	25-MAY-2011 10:38:46	Straylight	49.000	25	35Lam Sco	1.6200	28000.	98	48284	No
124	GOM_TRA_1PNPDK20110525_104043_000000473102_00425_48284_2219.N1	25-MAY-2011 10:40:43	Twilight	47.000	75	26Eps Sco	2.2910	4250.0	94	48284	No
125	GOM_TRA_1PNPDK20110525_104329_000000593102_00425_48284_2220.N1	25-MAY-2011 10:43:29	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48284	No
126	GOM_TRA_1PNPDK20110525_104501_000000413102_00425_48284_2221.N1	25-MAY-2011 10:45:01	Bright	41.000	80	7Del Sco	2.3160	30000.	82	48284	No
127	GOM_TRA_1PNPDK20110525_104640_000000513102_00425_48284_2222.N1	25-MAY-2011 10:46:40	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	48284	No

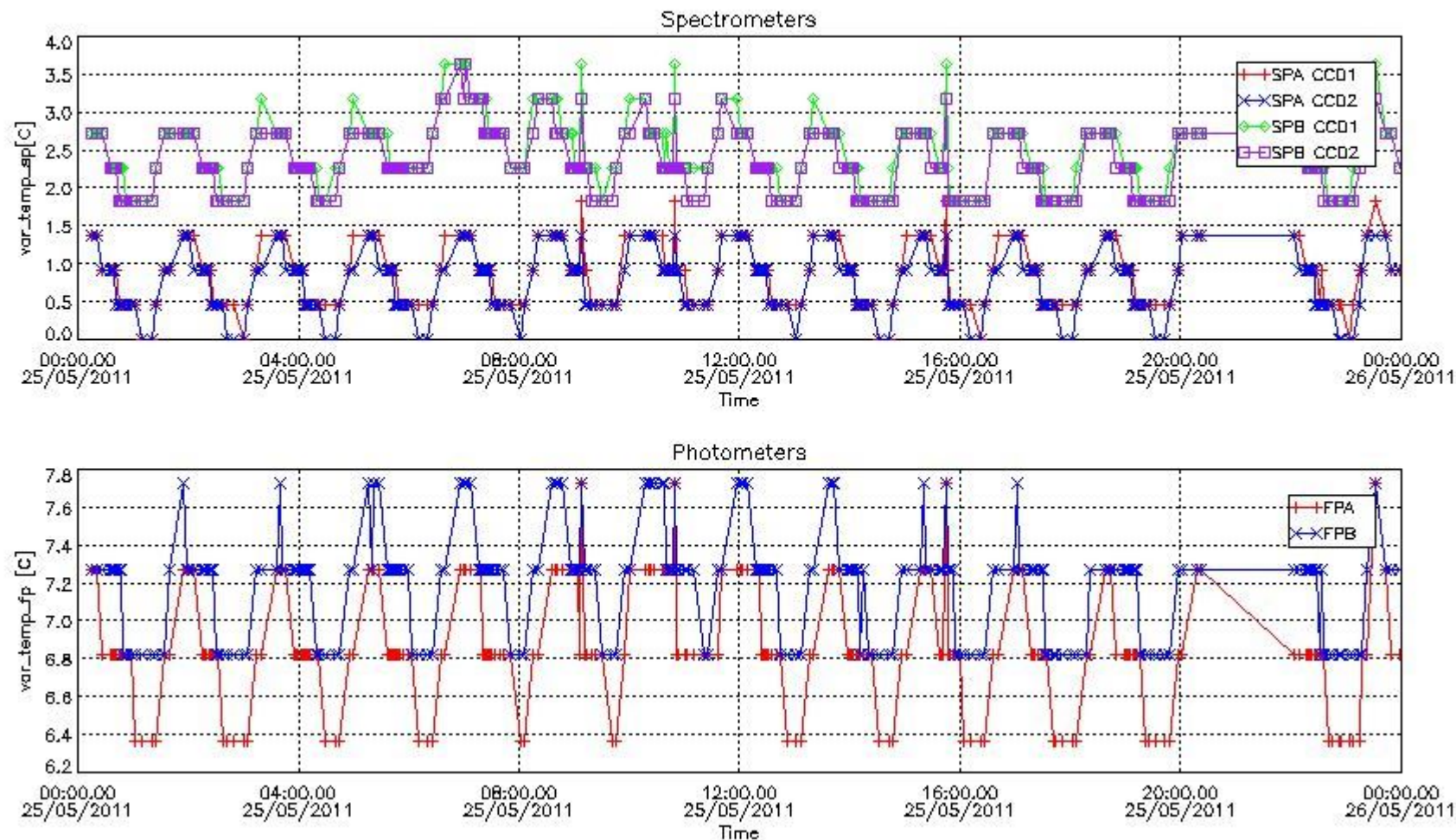
128	GOM_TRA_1PNPDK20110525_104838_000000453102_00425_48284_2242.N1	25-MAY-2011 10:48:38	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	48284	No
129	GOM_TRA_1PNPDK20110525_105055_000000433102_00425_48284_2243.N1	25-MAY-2011 10:50:55	Bright	42.500	120	1Del Oph	2.7340	3200.0	85	48284	No
130	GOM_TRA_1PNPDK20110525_105357_000000393102_00425_48284_2244.N1	25-MAY-2011 10:53:57	Bright	39.000	102	24Alp Ser	2.6000	4250.0	78	48284	No
131	GOM_TRA_1PNPDK20110525_105959_000000573102_00425_48284_2245.N1	25-MAY-2011 10:59:59	Bright	57.000	67	5Alp CrB	2.2210	11000.	114	48284	No
132	GOM_TRA_1PNPDK20110525_110311_000000473102_00425_48284_2246.N1	25-MAY-2011 11:03:11	Bright	47.000	133	40Zet Her	2.8070	6000.0	94	48284	No
133	GOM_TRA_1PNPDK20110525_111045_000000583102_00425_48284_2247.N1	25-MAY-2011 11:10:45	Bright	58.000	119	14Eta Dra	2.7270	4700.0	116	48284	No
134	GOM_TRA_1PNPDK20110525_112126_000000463102_00425_48284_2248.N1	25-MAY-2011 11:21:26	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48284	No
135	GOM_TRA_1PNPDK20110525_112557_000000413102_00425_48284_2249.N1	25-MAY-2011 11:25:57	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	48284	No
136	GOM_TRA_1PNPDK20110525_113546_000000493102_00425_48284_2250.N1	25-MAY-2011 11:35:46	Twilight	48.500	58	21Alp And	2.0730	11000.	97	48284	No
137	GOM_TRA_1PNPDK20110525_114020_000000473102_00425_48284_2251.N1	25-MAY-2011 11:40:20	Dark	47.000	140	88Gam Peg	2.8340	26000.	94	48284	No
138	GOM_TRA_1PNPDK20110525_115658_000000553102_00425_48284_2252.N1	25-MAY-2011 11:56:58	Dark	54.500	18	24Alp PsA	1.1660	9700.0	109	48284	No
139	GOM_TRA_1PNPDK20110525_120046_000000473102_00425_48284_2253.N1	25-MAY-2011 12:00:46	Dark	46.500	63	Bet Gru	2.1500	2800.0	93	48284	No
140	GOM_TRA_1PNPDK20110525_120231_000000453102_00426_48285_2254.N1	25-MAY-2011 12:02:31	Dark	45.000	31	Alp Gru	1.7340	15200.	90	48285	No
141	GOM_TRA_1PNPDK20110525_120746_000000423102_00426_48285_2255.N1	25-MAY-2011 12:07:46	Dark	41.500	45	Alp Pav	1.9400	26000.	83	48285	No
142	GOM_TRA_1PNPDK20110525_121711_000000493102_00426_48285_2256.N1	25-MAY-2011 12:17:11	Straylight	49.000	40	The Sco	1.8590	7100.0	98	48285	No
143	GOM_TRA_1PNPDK20110525_121900_000000513102_00426_48285_2257.N1	25-MAY-2011 12:19:00	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	48285	No
144	GOM_TRA_1PNPDK20110525_122057_000000493102_00426_48285_2258.N1	25-MAY-2011 12:20:57	Twilight	48.500	75	26Eps Sco	2.2910	4250.0	97	48285	No
145	GOM_TRA_1PNPDK20110525_122343_000000593102_00426_48285_2259.N1	25-MAY-2011 12:23:43	Bright	58.500	16	21Alp Sco	1.0200	3000.0	117	48285	No
146	GOM_TRA_1PNPDK20110525_122516_000000443102_00426_48285_2260.N1	25-MAY-2011 12:25:16	Bright	44.000	80	7Del Sco	2.3160	30000.	88	48285	No
147	GOM_TRA_1PNPDK20110525_122655_000000503102_00426_48285_2261.N1	25-MAY-2011 12:26:55	Bright	50.000	86	35Eta Oph	2.4300	10200.	100	48285	No
148	GOM_TRA_1PNPDK20110525_122852_000000453102_00426_48285_2276.N1	25-MAY-2011 12:28:52	Bright	44.500	98	13Zet Oph	2.5710	30000.	89	48285	No
149	GOM_TRA_1PNPDK20110525_123108_000000423102_00426_48285_2277.N1	25-MAY-2011 12:31:08	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	48285	No
150	GOM_TRA_1PNPDK20110525_123411_000000393102_00426_48285_2278.N1	25-MAY-2011 12:34:11	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	48285	No
151	GOM_TRA_1PNPDK20110525_124013_000000383102_00426_48285_2279.N1	25-MAY-2011 12:40:13	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	48285	No
152	GOM_TRA_1PNPDK20110525_124325_000000483102_00426_48285_2280.N1	25-MAY-2011 12:43:25	Bright	48.000	133	40Zet Her	2.8070	6000.0	96	48285	No
153	GOM_TRA_1PNPDK20110525_125058_000000423102_00426_48285_2281.N1	25-MAY-2011 12:50:58	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	48285	No
154	GOM_TRA_1PNPDK20110525_130139_000000453102_00426_48285_2282.N1	25-MAY-2011 13:01:39	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48285	No
155	GOM_TRA_1PNPDK20110525_130611_000000583102_00426_48285_2283.N1	25-MAY-2011 13:06:11	Bright	58.000	74	11Bet Cas	2.2680	6600.0	116	48285	No
156	GOM_TRA_1PNPDK20110525_131600_000000513102_00426_48285_2284.N1	25-MAY-2011 13:16:00	Twilight	50.500	58	21Alp And	2.0730	11000.	101	48285	No
157	GOM_TRA_1PNPDK20110525_132034_000000483102_00426_48285_2285.N1	25-MAY-2011 13:20:34	Dark	48.000	140	88Gam Peg	2.8340	26000.	96	48285	No
158	GOM_TRA_1PNPDK20110525_133713_000000593102_00426_48285_2286.N1	25-MAY-2011 13:37:13	Dark	59.000	18	24Alp PsA	1.1660	9700.0	118	48285	No
159	GOM_TRA_1PNPDK20110525_134101_000000573102_00426_48285_2287.N1	25-MAY-2011 13:41:01	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	48285	No
160	GOM_TRA_1PNPDK20110525_134245_000000443102_00427_48286_2288.N1	25-MAY-2011 13:42:45	Dark	43.500	31	Alp Gru	1.7340	15200.	87	48286	No
161	GOM_TRA_1PNPDK20110525_134801_000000443102_00427_48286_2289.N1	25-MAY-2011 13:48:01	Dark	43.500	45	Alp Pav	1.9400	26000.	87	48286	No
162	GOM_TRA_1PNPDK20110525_135725_000000433102_00427_48286_2290.N1	25-MAY-2011 13:57:25	Straylight	42.500	40	The Sco	1.8590	7100.0	85	48286	No
163	GOM_TRA_1PNPDK20110525_135914_000000483102_00427_48286_2291.N1	25-MAY-2011 13:59:14	Straylight	47.500	25	35Lam Sco	1.6200	28000.	95	48286	No
164	GOM_TRA_1PNPDK20110525_140111_000000463102_00427_48286_2292.N1	25-MAY-2011 14:01:11	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	48286	No
165	GOM_TRA_1PNPDK20110525_140358_000000593102_00427_48286_2293.N1	25-MAY-2011 14:03:58	Bright	59.000	16	21Alp Sco	1.0200	3000.0	118	48286	No
166	GOM_TRA_1PNPDK20110525_140709_000000503102_00427_48286_2309.N1	25-MAY-2011 14:07:09	Bright	49.500	86	35Eta Oph	2.4300	10200.	99	48286	No
167	GOM_TRA_1PNPDK20110525_140906_000000623102_00427_48286_2310.N1	25-MAY-2011 14:09:06	Bright	62.000	98	13Zet Oph	2.5710	30000.	124	48286	No
168	GOM_TRA_1PNPDK20110525_141122_000000423102_00427_48286_2311.N1	25-MAY-2011 14:11:22	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	48286	No
169	GOM_TRA_1PNPDK20110525_141425_000000393102_00427_48286_2312.N1	25-MAY-2011 14:14:25	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	48286	No
170	GOM_TRA_1PNPDK20110525_142026_000000393102_00427_48286_2313.N1	25-MAY-2011 14:20:26	Bright	38.500	67	5Alp CrB	2.2210	11000.	77	48286	No
171	GOM_TRA_1PNPDK20110525_142338_000000493102_00427_48286_2314.N1	25-MAY-2011 14:23:38	Bright	48.500	133	40Zet Her	2.8070	6000.0	97	48286	No
172	GOM_TRA_1PNPDK20110525_143112_000000413102_00427_48286_2315.N1	25-MAY-2011 14:31:12	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	48286	No
173	GOM_TRA_1PNPDK20110525_144153_000000463102_00427_48286_2316.N1	25-MAY-2011 14:41:53	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	48286	No
174	GOM_TRA_1PNPDK20110525_144624_000000573102_00427_48286_2317.N1	25-MAY-2011 14:46:24	Bright	57.000	74	11Bet Cas	2.2680	6600.0	114	48286	No
175	GOM_TRA_1PNPDK20110525_145614_000000493102_00427_48286_2318.N1	25-MAY-2011 14:56:14	Twilight	49.000	58	21Alp And	2.0730	11000.	98	48286	No
176	GOM_TRA_1PNPDK20110525_150049_000000463102_00427_48286_2319.N1	25-MAY-2011 15:00:49	Dark	46.000	140	88Gam Peg	2.8340	26000.	92	48286	No
177	GOM_TRA_1PNPDK20110525_151728_000000573102_00427_48286_2320.N1	25-MAY-2011 15:17:28	Dark	57.000	18	24Alp PsA	1.1660	9700.0	114	48286	No
178	GOM_TRA_1PNPDK20110525_152116_000000603102_00427_48286_2321.N1	25-MAY-2011 15:21:16	Dark	59.500	63	Bet Gru	2.1500	2800.0	119	48286	No
179	GOM_TRA_1PNPDK20110525_152300_000000453102_00428_48287_2322.N1	25-MAY-2011 15:23:00	Dark	44.500	31	Alp Gru	1.7340	15200.	89	48287	No
180	GOM_TRA_1PNPDK20110525_152815_000000453102_00428_48287_2323.N1	25-MAY-2011 15:28:15	Dark	44.500	45	Alp Pav	1.9400	26000.	89	48287	No
181	GOM_TRA_1PNPDK20110525_153740_000000513102_00428_48287_2324.N1	25-MAY-2011 15:37:40	Straylight	51.000	40	The Sco	1.8590	7100.0	102	48287	No
182	GOM_TRA_1PNPDK20110525_153929_000000503102_00428_48287_2325.N1	25-MAY-2011 15:39:29	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	48287	No
183	GOM_TRA_1PNPDK20110525_154126_000000513102_00428_48287_2326.N1	25-MAY-2011 15:41:26	Twilight	50.500	75	26Eps Sco	2.2910	4250.0	101	48287	No
184	GOM_TRA_1PNPDK20110525_154412_000000583102_00428_48287_2346.N1	25-MAY-2011 15:44:12	Bright	58.000	16	21Alp Sco	1.0200	3000.0	116	48287	No
185	GOM_TRA_1PNPDK20110525_154723_000000513102_00428_48287_2347.N1	25-MAY-2011 15:47:23	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	48287	No
186	GOM_TRA_1PNPDK20110525_154920_000000443102_00428_48287_2348.N1	25-MAY-2011 15:49:20	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	48287	No





246	GOM_TRA_1PNPDE20110525_223232_000000423103_00001_48291_8921.N1	25-MAY-2011 22:32:32	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	48291	No
247	GOM_TRA_1PNPDE20110525_223534_000000393103_00001_48291_8922.N1	25-MAY-2011 22:35:34	Bright	38.500	102	24Alp Ser	2.6000	4250.0	77	48291	No
248	GOM_TRA_1PNPDE20110525_224135_000000413103_00001_48291_8923.N1	25-MAY-2011 22:41:35	Bright	41.000	67	5Alp CrB	2.2210	11000.	82	48291	No
249	GOM_TRA_1PNPDE20110525_224445_000000473103_00001_48291_8924.N1	25-MAY-2011 22:44:45	Bright	47.000	133	40Zet Her	2.8070	6000.0	94	48291	No
250	GOM_TRA_1PNPDE20110525_225221_000000383103_00001_48291_8925.N1	25-MAY-2011 22:52:21	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	48291	No
251	GOM_TRA_1PNPDE20110525_225440_000000353103_00001_48291_8926.N1	25-MAY-2011 22:54:40	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	48291	No
252	GOM_TRA_1PNPDE20110525_230300_000000463103_00001_48291_8927.N1	25-MAY-2011 23:03:00	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	48291	No
253	GOM_TRA_1PNPDE20110525_230722_000000513103_00001_48291_8928.N1	25-MAY-2011 23:07:22	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	48291	No
254	GOM_TRA_1PNPDE20110525_231452_000000483103_00001_48291_8929.N1	25-MAY-2011 23:14:52	Bright	48.000	53	43Bet And	2.0480	3300.0	96	48291	No
255	GOM_TRA_1PNPDE20110525_231725_000000513103_00001_48291_8930.N1	25-MAY-2011 23:17:25	Twilight	50.500	58	21Alp And	2.0730	11000.	101	48291	No
256	GOM_TRA_1PNPDE20110525_232200_000000493103_00001_48291_8931.N1	25-MAY-2011 23:22:00	Dark	49.000	140	88Gam Peg	2.8340	26000.	98	48291	No
257	GOM_TRA_1PNPDE20110525_233052_000000483103_00001_48291_8768.N1	25-MAY-2011 23:30:52	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	48291	No
258	GOM_TRA_1PNPDE20110525_234230_000000613103_00002_48292_8769.N1	25-MAY-2011 23:42:30	Dark	61.000	63	Bet Gru	2.1500	2800.0	122	48292	No
259	GOM_TRA_1PNPDE20110525_234929_000000443103_00002_48292_8770.N1	25-MAY-2011 23:49:29	Dark	44.000	45	Alp Pav	1.9400	26000.	88	48292	No
260	GOM_TRA_1PNPDE20110525_235852_000000483103_00002_48292_8771.N1	25-MAY-2011 23:58:52	Straylight	48.000	40	The Sco	1.8590	7100.0	96	48292	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 subtracted 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).

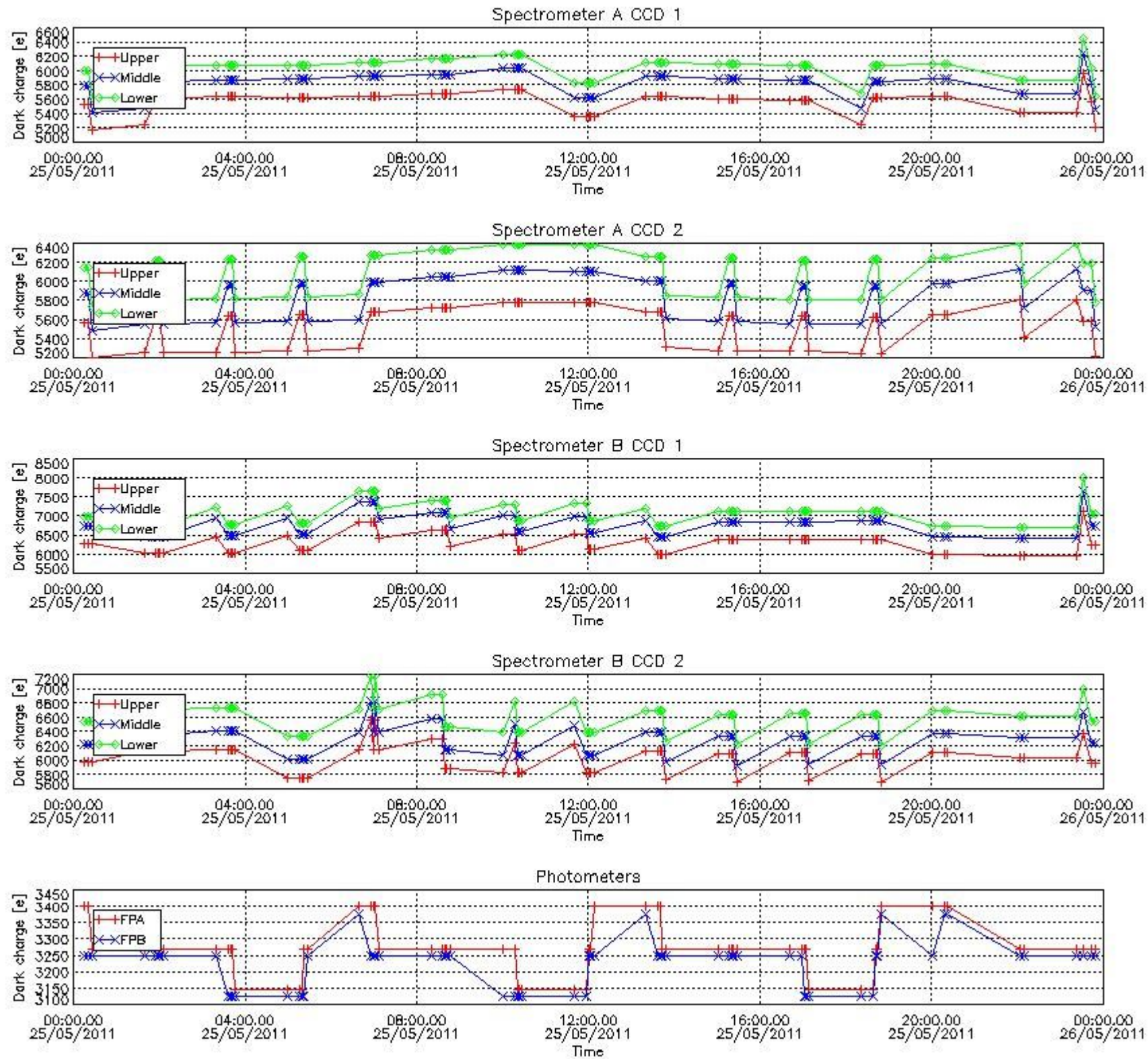
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20110525_220400_000000483103_00001_48291_8911.N1	DC map used
GOM_TRA_1PNPDE20110525_220914_000000443103_00001_48291_8912.N1	DC map used
GOM_TRA_1PNPDE20110525_221548_000000453103_00001_48291_8913.N1	DC map used
GOM_TRA_1PNPDE20110525_221838_000000493103_00001_48291_8914.N1	DC map used
GOM_TRA_1PNPDE20110525_222027_000000513103_00001_48291_8915.N1	DC map used
GOM_TRA_1PNPDE20110525_222223_000000513103_00001_48291_8916.N1	DC map used
GOM_TRA_1PNPDE20110525_222509_000000593103_00001_48291_8917.N1	DC map used
GOM_TRA_1PNPDE20110525_222641_000000433103_00001_48291_8918.N1	DC map used
GOM_TRA_1PNPDE20110525_222819_000000513103_00001_48291_8919.N1	DC map used
GOM_TRA_1PNPDE20110525_223054_000000373103_00001_48291_8920.N1	DC map used
GOM_TRA_1PNPDE20110525_223232_000000423103_00001_48291_8921.N1	DC map used
GOM_TRA_1PNPDE20110525_223534_000000393103_00001_48291_8922.N1	DC map used
GOM_TRA_1PNPDE20110525_224135_000000413103_00001_48291_8923.N1	DC map used
GOM_TRA_1PNPDE20110525_224445_000000473103_00001_48291_8924.N1	DC map used
GOM_TRA_1PNPDE20110525_225221_000000383103_00001_48291_8925.N1	DC map used
GOM_TRA_1PNPDE20110525_225440_000000353103_00001_48291_8926.N1	DC map used
GOM_TRA_1PNPDE20110525_230300_000000463103_00001_48291_8927.N1	DC map used
GOM_TRA_1PNPDE20110525_230722_000000513103_00001_48291_8928.N1	DC map used
GOM_TRA_1PNPDE20110525_231452_000000483103_00001_48291_8929.N1	DC map used
GOM_TRA_1PNPDE20110525_231725_000000513103_00001_48291_8930.N1	DC map used
GOM_TRA_1PNPDE20110525_232200_000000493103_00001_48291_8931.N1	DC map used

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





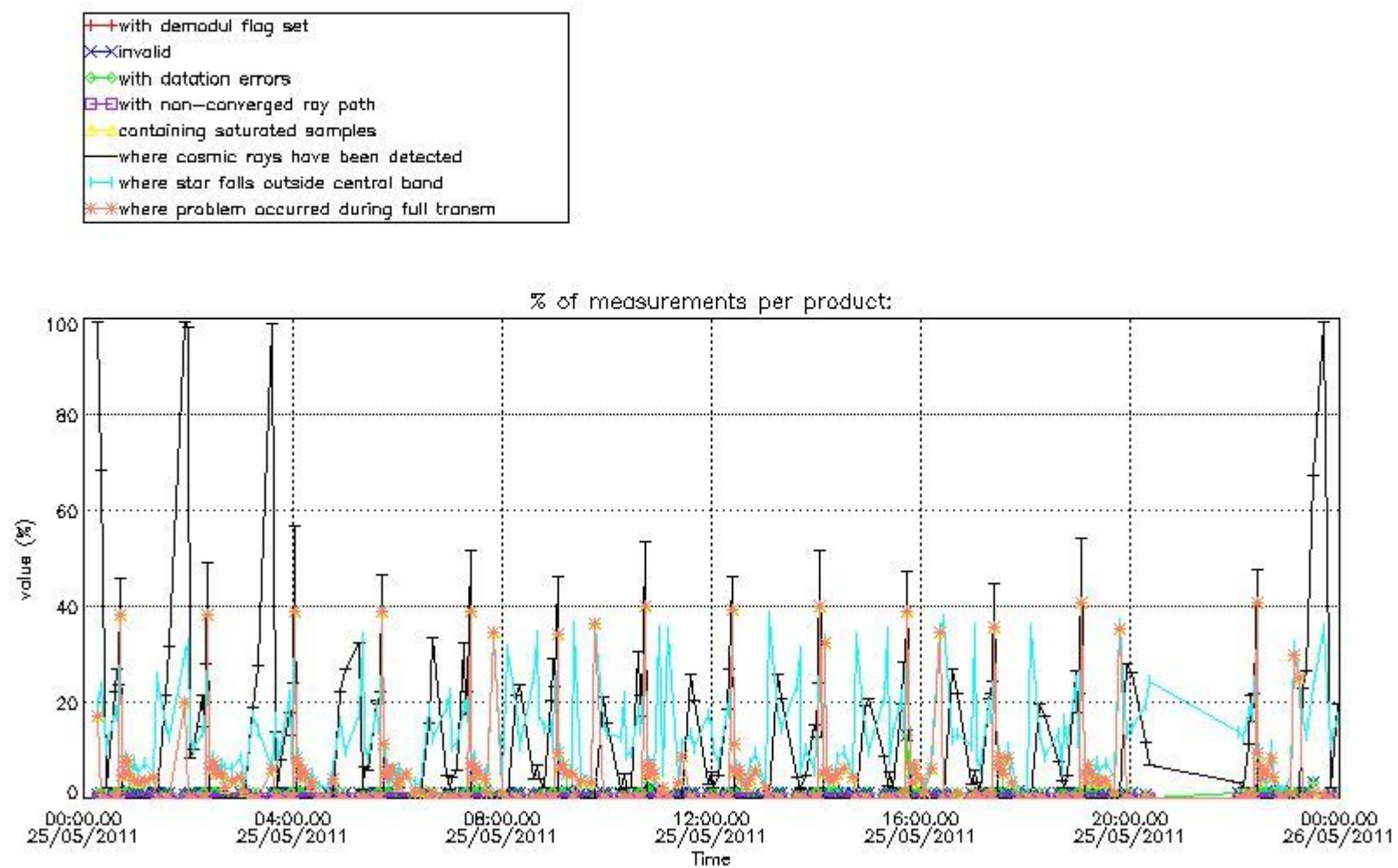
## 5. Demodulation flag and quality information monitoring

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:

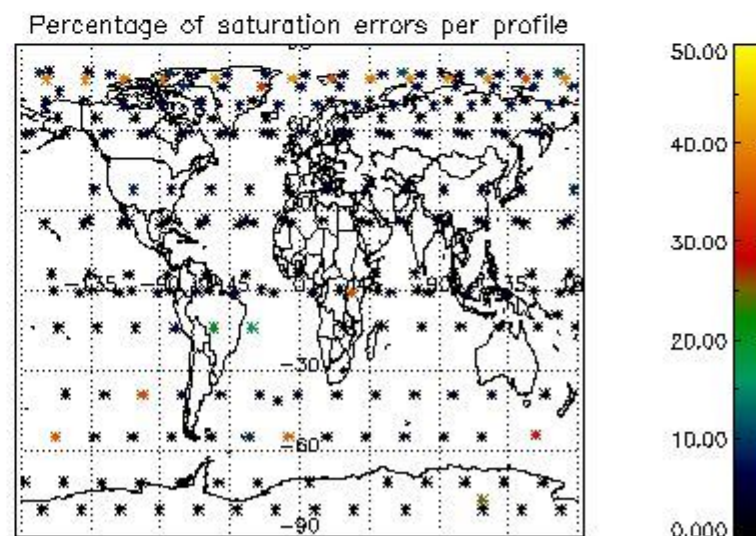
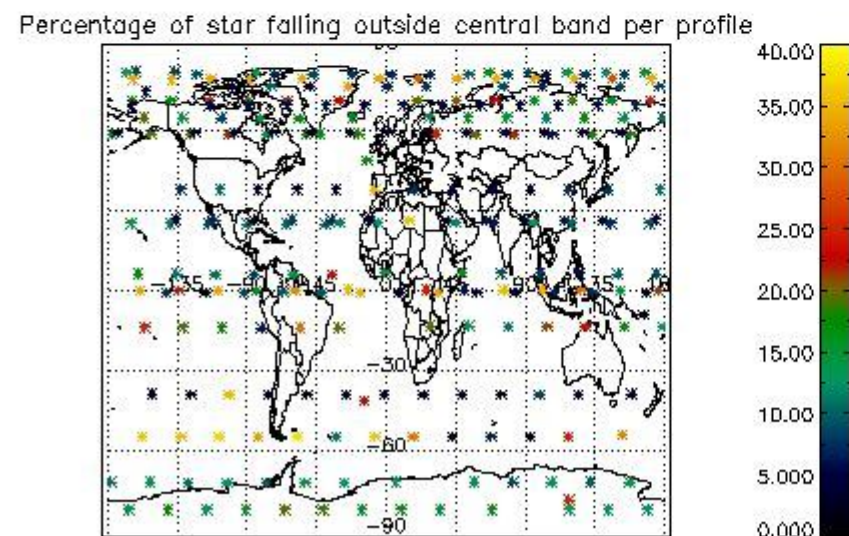
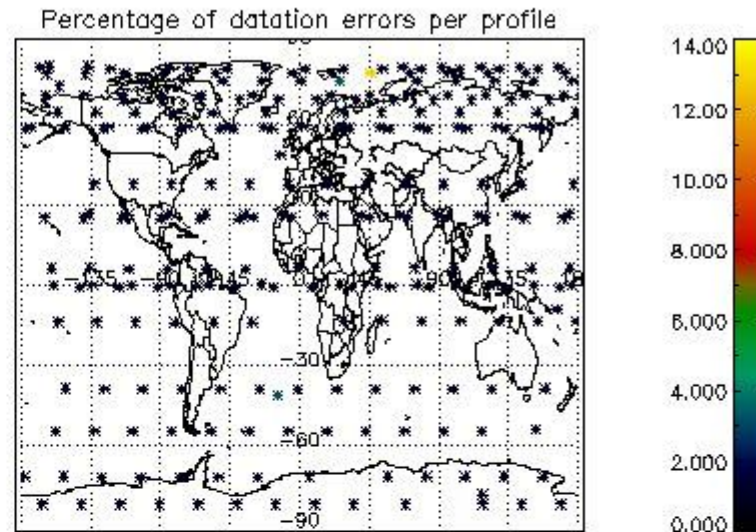
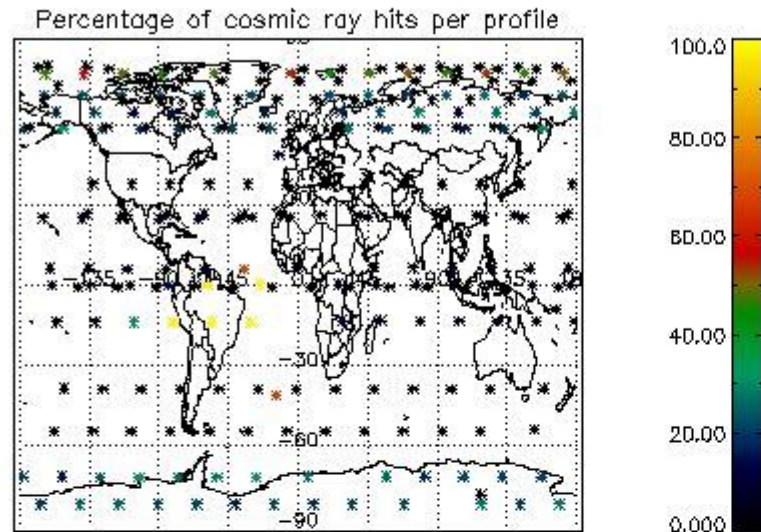
At least one measurement with demodulation flag set:	45.9459 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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)

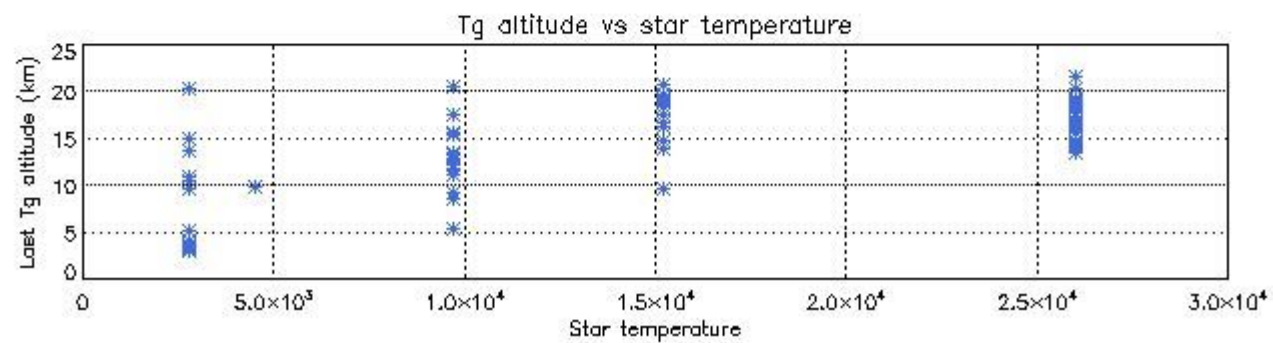
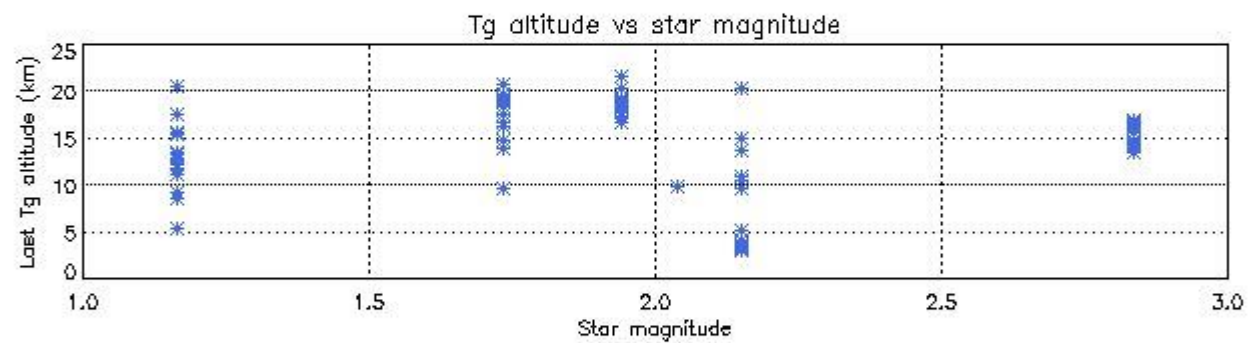
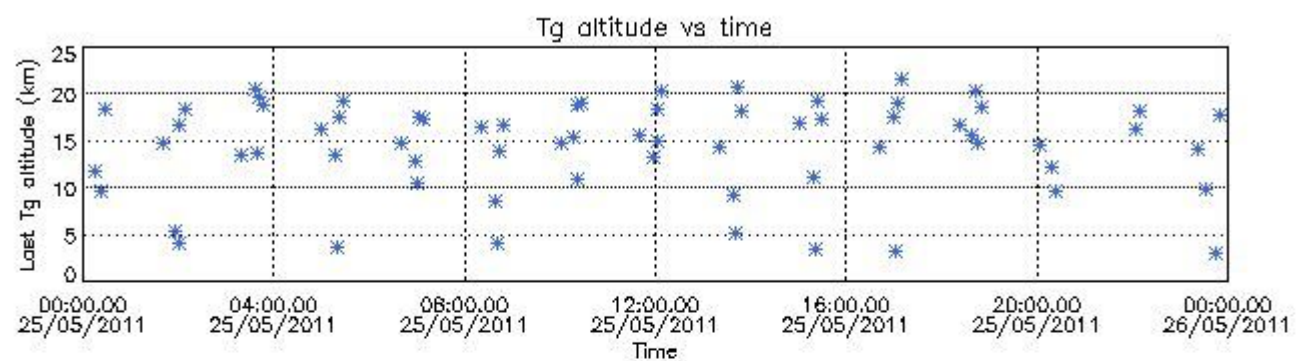
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.351	17.504	NaN
St. deviation:	4.9264	6.9320	NaN
Maximum:	21.540	26.271	NaN
Minimum:	3.0588	2.8589	NaN
Number of data:	67.000	138.00	NaN

### 6.2 Plot for DARK limb products

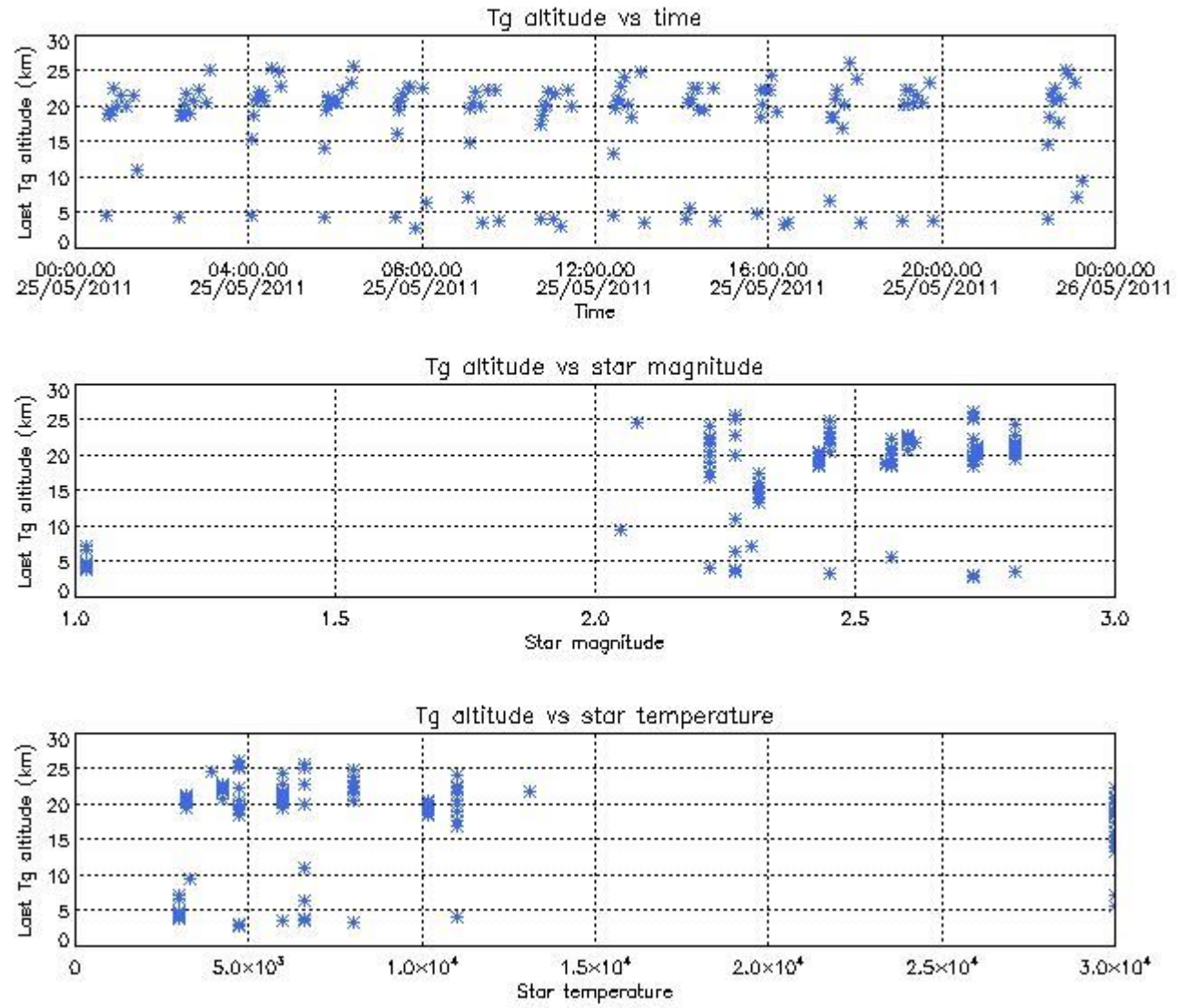


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

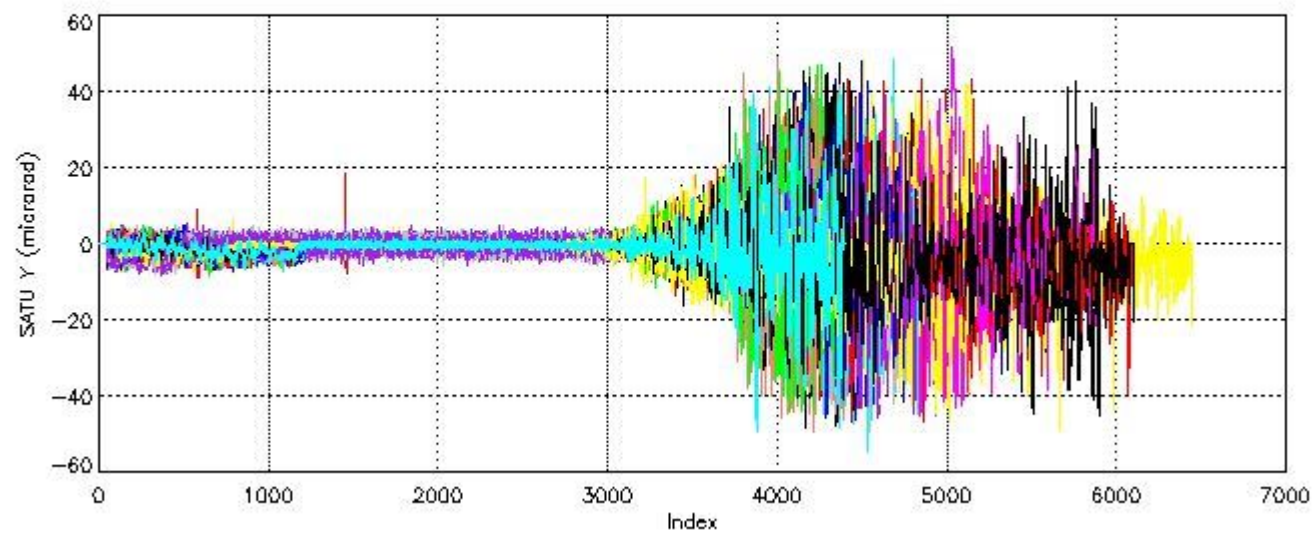
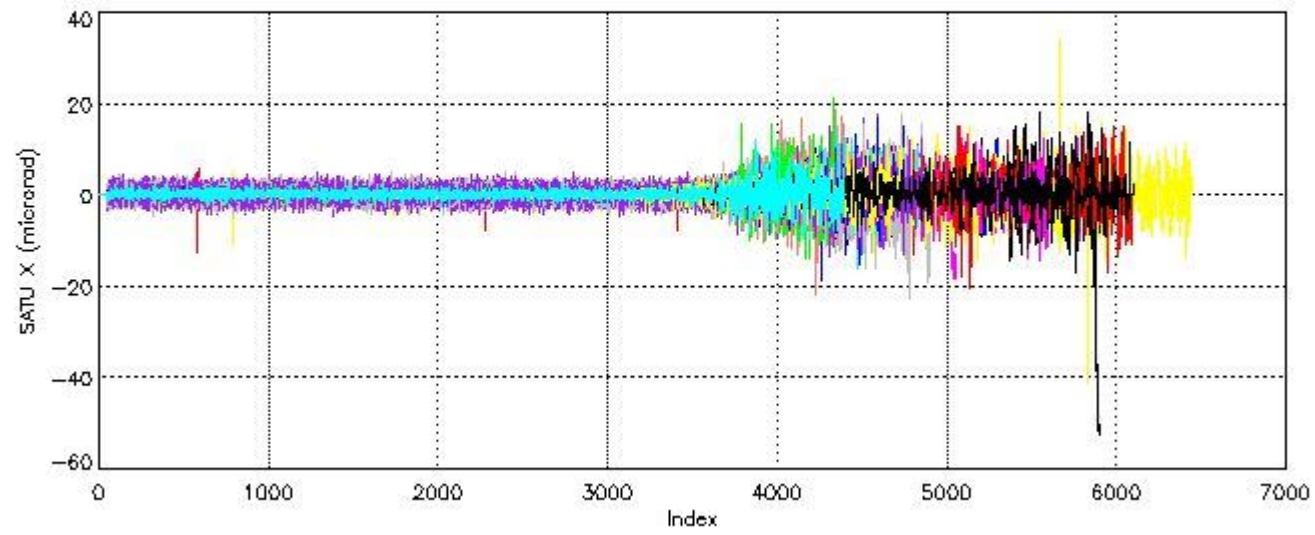


## 7. Star Acquisition and Tracking Unit (SATU)

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 function 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 frequency 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:	0.24884	-1.3812	0.28096	-1.6194
St. deviation:	0.57316	1.6798	0.72943	1.7254
Maximum:	5.8000	8.7000	5.1000	7.7000
Minimum:	-12.700	-8.9000	-3.8000	-9.3000



Number of data:	70300.	70300.	1.3995E+05	1.3995E+05
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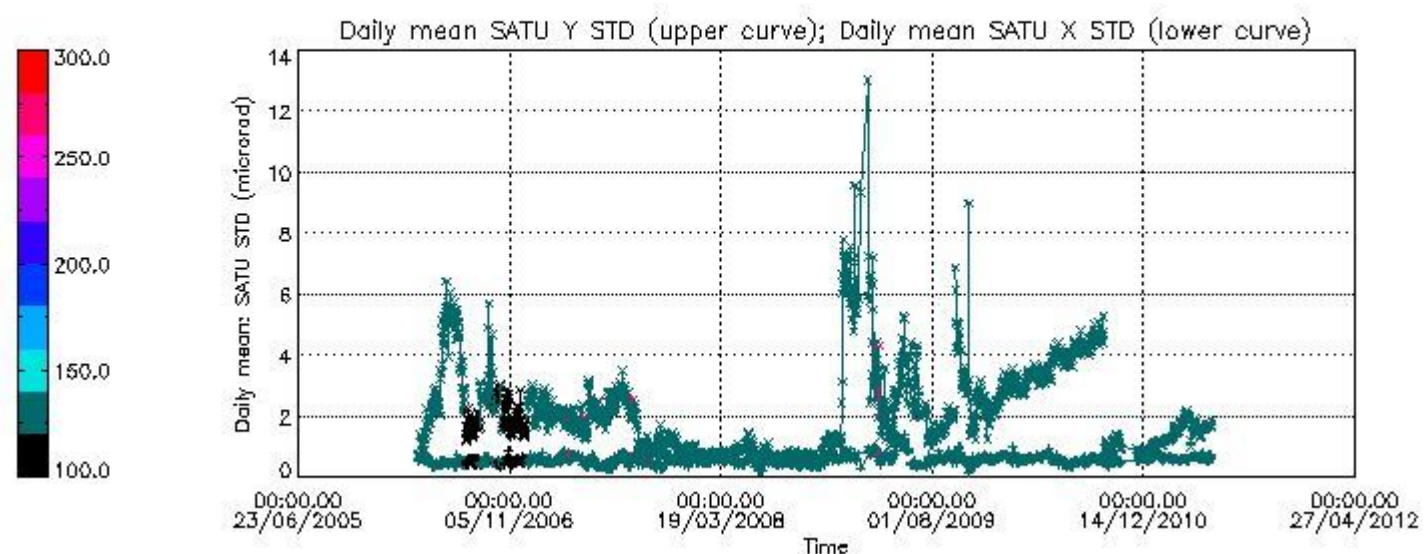
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

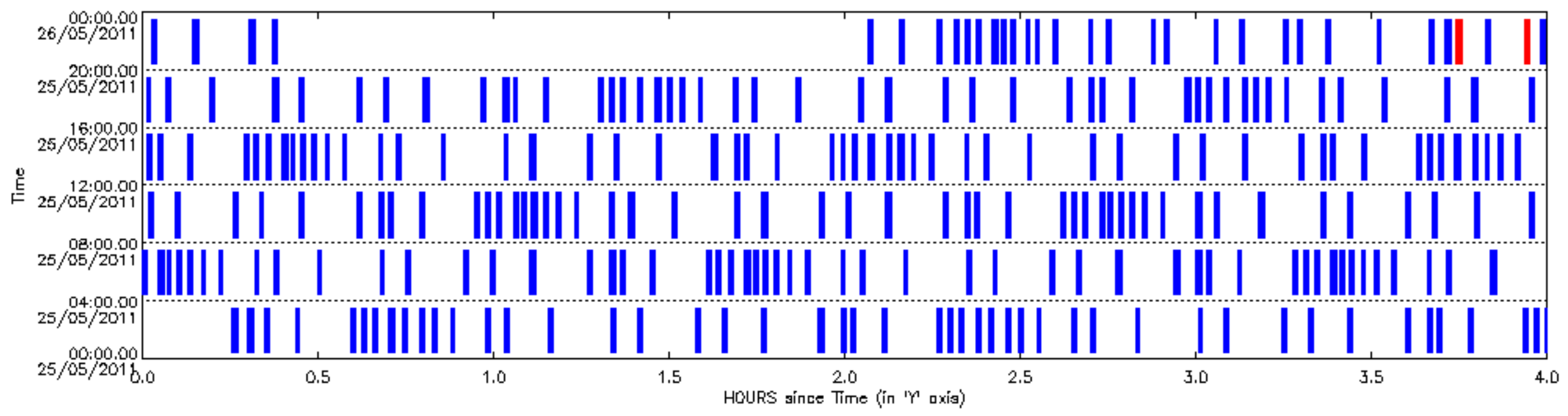


### 8. Auxiliary Data Files used for the production reported in section 2.4

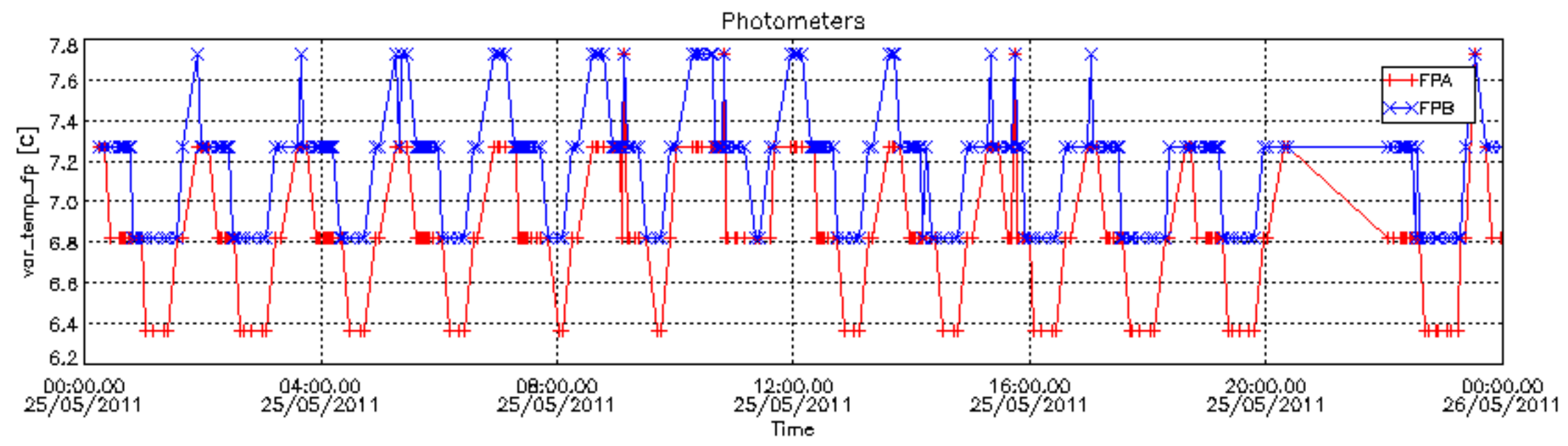
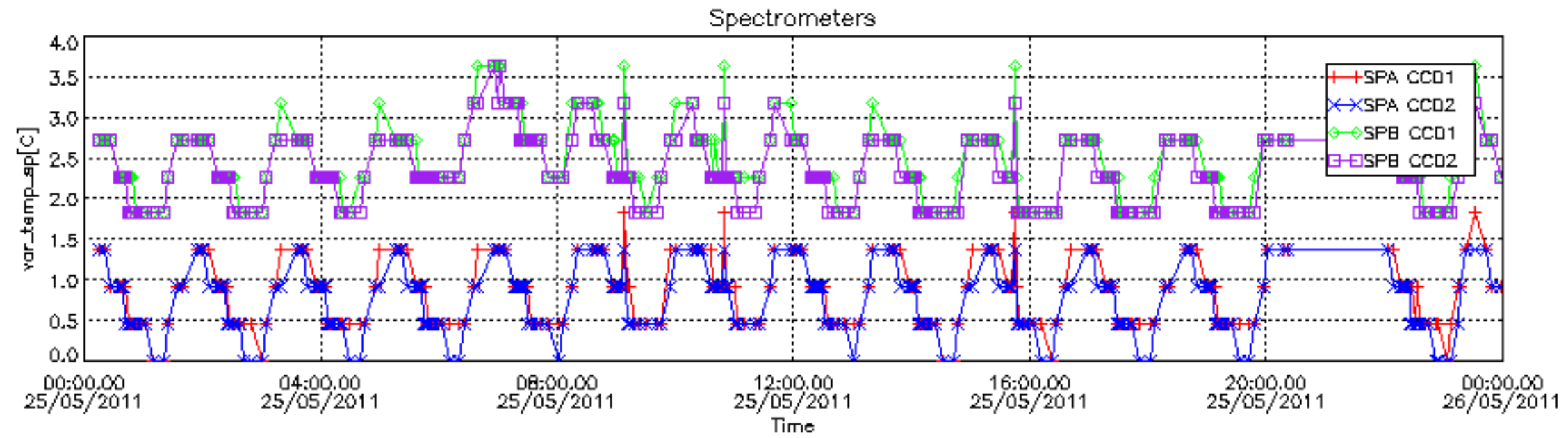
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

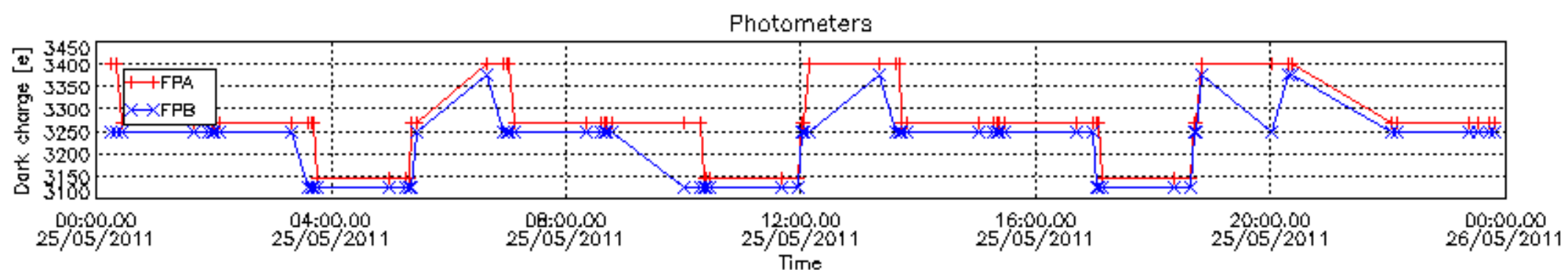
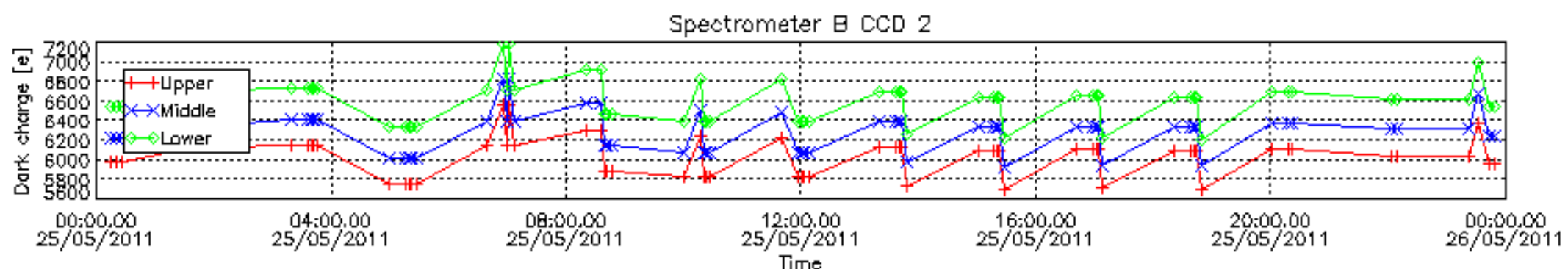
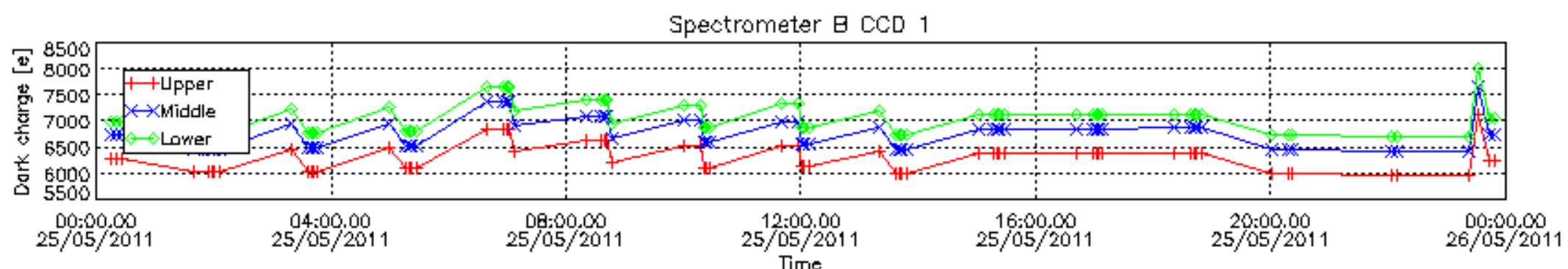
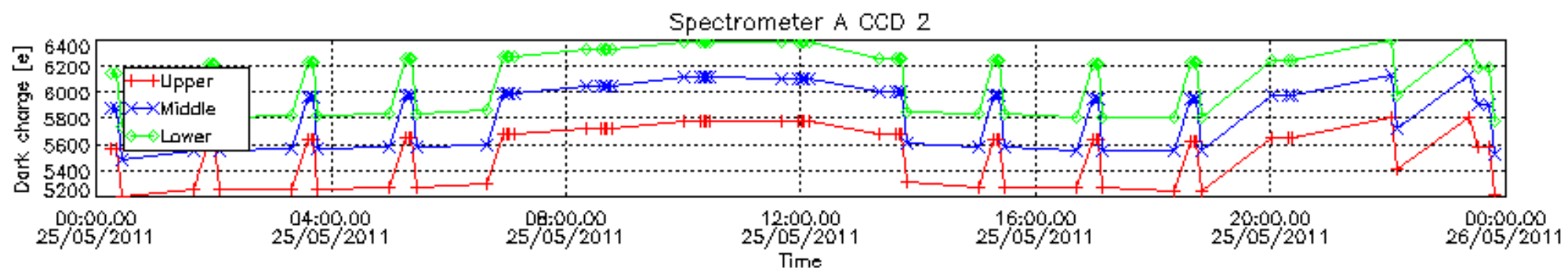
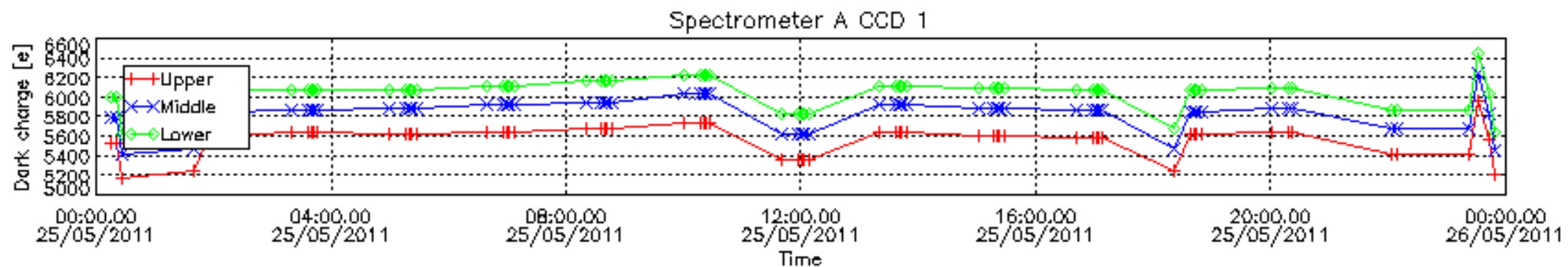
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-MAY-2011 00:15:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110519_083035_20110518_000000_20500101_000000	1	25-MAY-2011 00:15:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	25-MAY-2011 00:15:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-MAY-2011 00:15:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	25-MAY-2011 00:15:13
ECMWF_FILE	AUX_ECF_AXNECM20110524_062115_20110524_210000_20110525_090000	1	25-MAY-2011 00:15:13
ECMWF_FILE	AUX_ECA_AXNECM20110525_062115_20110524_210000_20110525_090000	34	25-MAY-2011 03:00:19
ECMWF_FILE	AUX_ECF_AXNECM20110524_182957_20110525_030000_20110525_150000	74	25-MAY-2011 06:20:46
ECMWF_FILE	AUX_ECF_AXNECM20110525_062116_20110525_090000_20110525_210000	108	25-MAY-2011 09:08:25
ECMWF_FILE	AUX_ECF_AXNECM20110525_062116_20110525_150000_20110526_030000	184	25-MAY-2011 15:44:12
ECMWF_FILE	AUX_ECA_AXNECM20110525_181054_20110525_090000_20110525_210000	201	25-MAY-2011 17:19:43
ECMWF_FILE	AUX_ECF_AXNECM20110525_062117_20110525_210000_20110526_090000	236	25-MAY-2011 22:04:00
OPTIONAL_ECMWF_FILE	MISSING	1	25-MAY-2011 00:15:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110525_000237_000057383102_00418_48277_6069.N1	1	25-MAY-2011 00:15:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110525_014334_000041443102_00419_48278_6070.N1	19	25-MAY-2011 01:55:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110525_025757_000057383102_00420_48279_6071.N1	34	25-MAY-2011 03:00:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110525_043854_000057383102_00421_48280_6072.N1	54	25-MAY-2011 04:40:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110525_061951_000035073102_00422_48281_4651.N1	74	25-MAY-2011 06:20:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110525_072336_000057383102_00423_48282_4652.N1	88	25-MAY-2011 07:28:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110525_090433_000057383102_00424_48283_4653.N1	108	25-MAY-2011 09:08:25

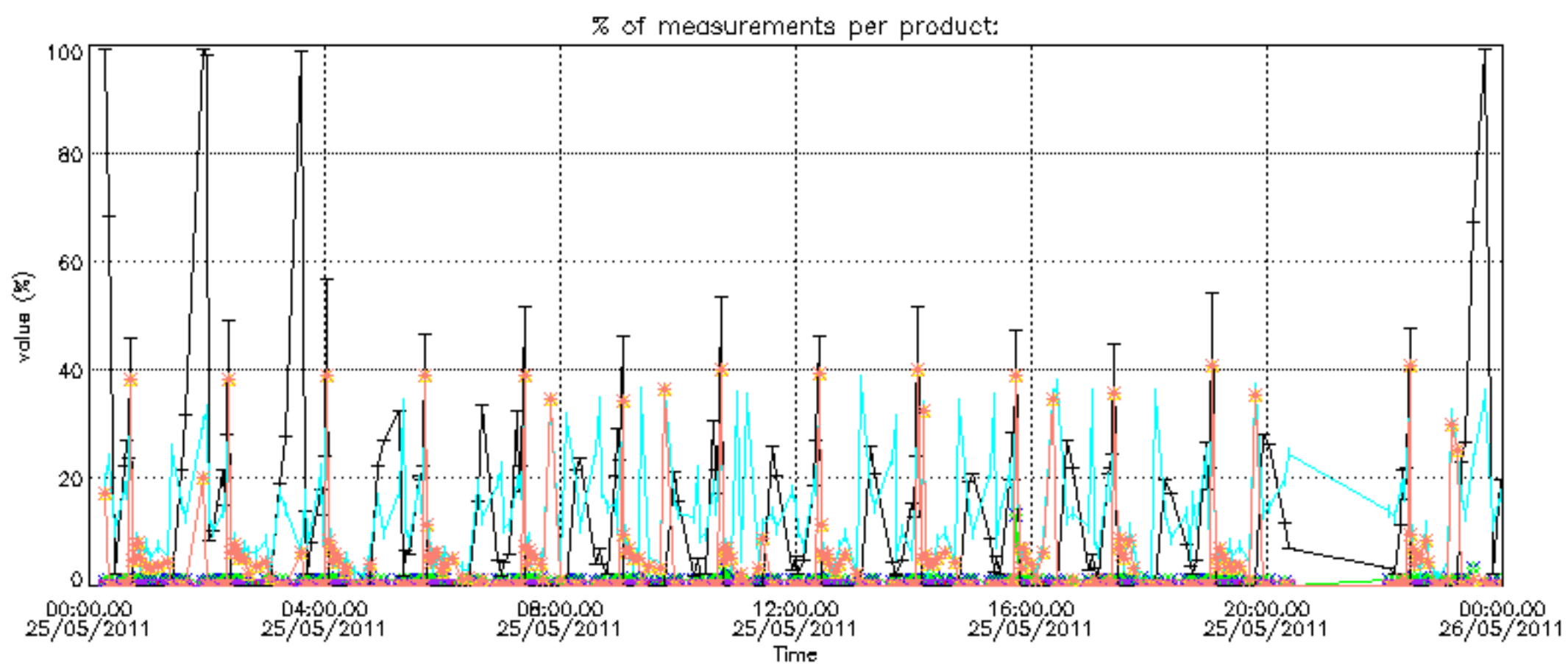
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110525_104530_000057383102_00425_48284_4654.N1	128	25-MAY-2011 10:48:38
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110525_122627_000054193102_00426_48285_4655.N1	148	25-MAY-2011 12:28:52
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110525_140206_000057383102_00427_48286_4656.N1	166	25-MAY-2011 14:07:09
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110525_154303_000054193102_00428_48287_4657.N1	184	25-MAY-2011 15:44:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110525_102114_20110524_191824_20110603_213211	201	25-MAY-2011 17:19:43
ORBIT_DATA_FILE	DOR_NAV_OPNPK20110525_185419_000057383102_00430_48289_4659.N1	219	25-MAY-2011 18:58:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110525_214939_000057383102_00431_48290_6074.N1	236	25-MAY-2011 22:04:00
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20110525_102114_20110524_191824_20110603_213211	257	25-MAY-2011 23:30:52





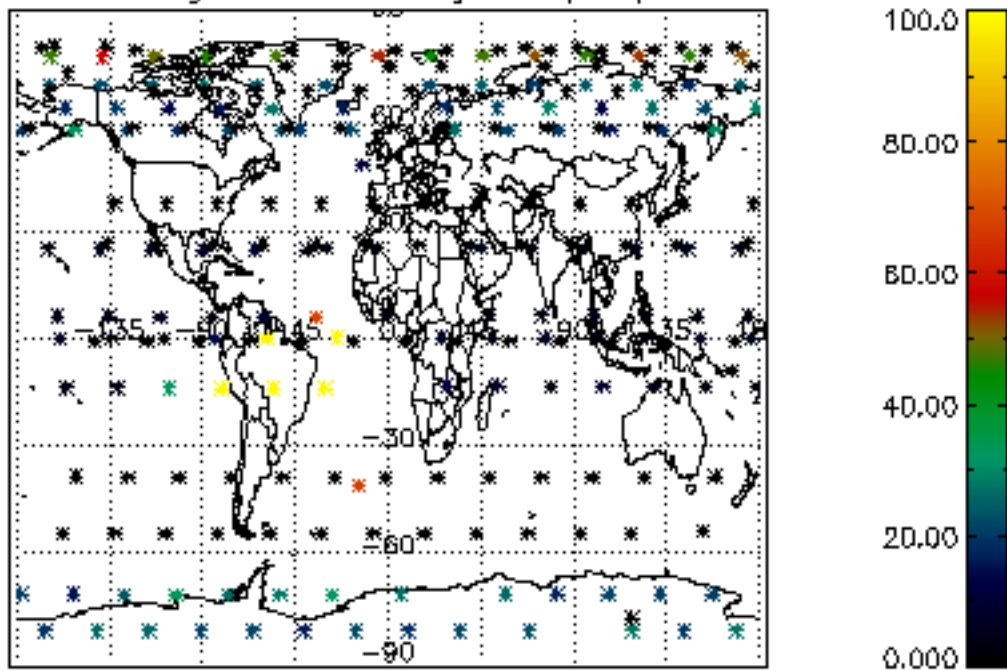




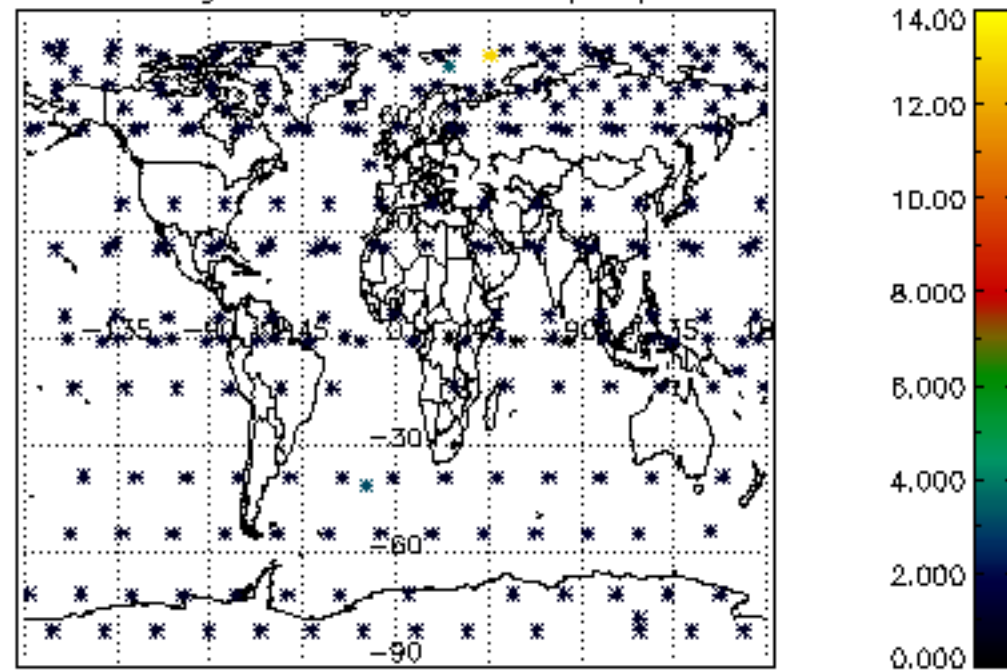




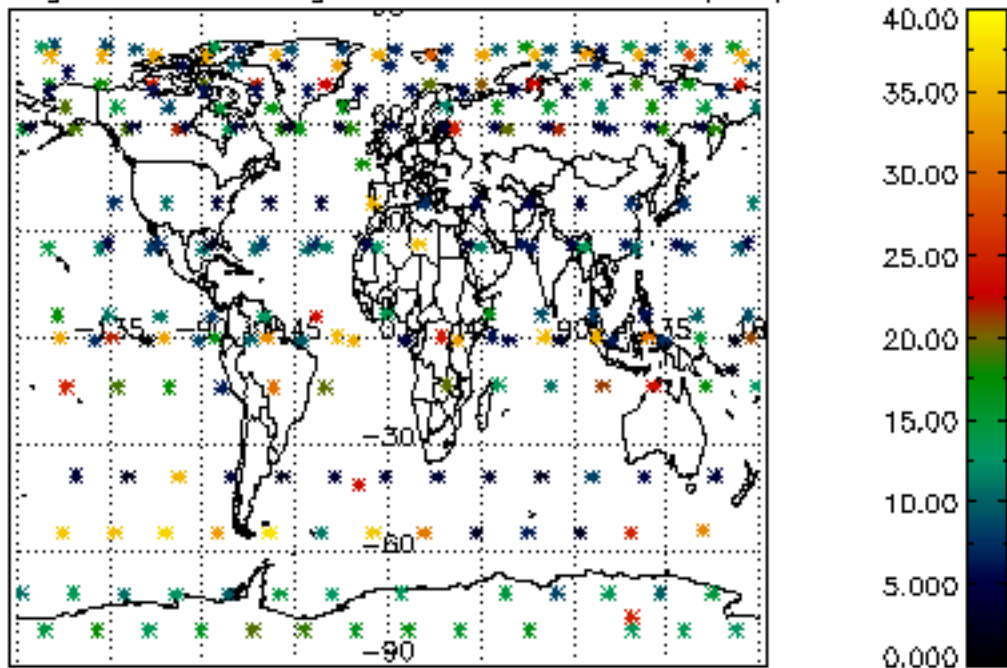
Percentage of cosmic ray hits per profile



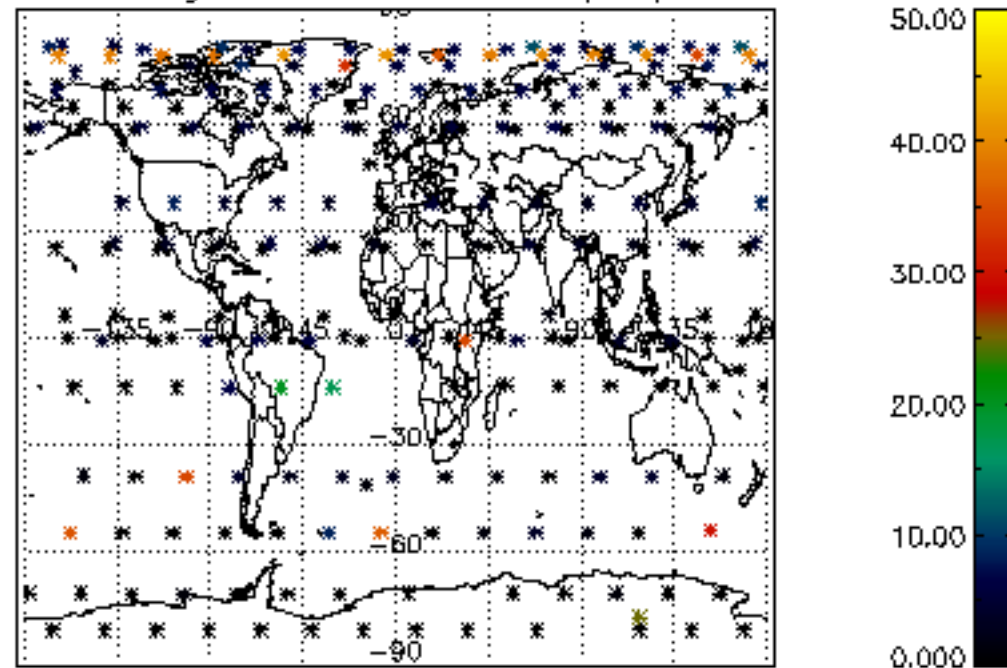
Percentage of datation errors per profile



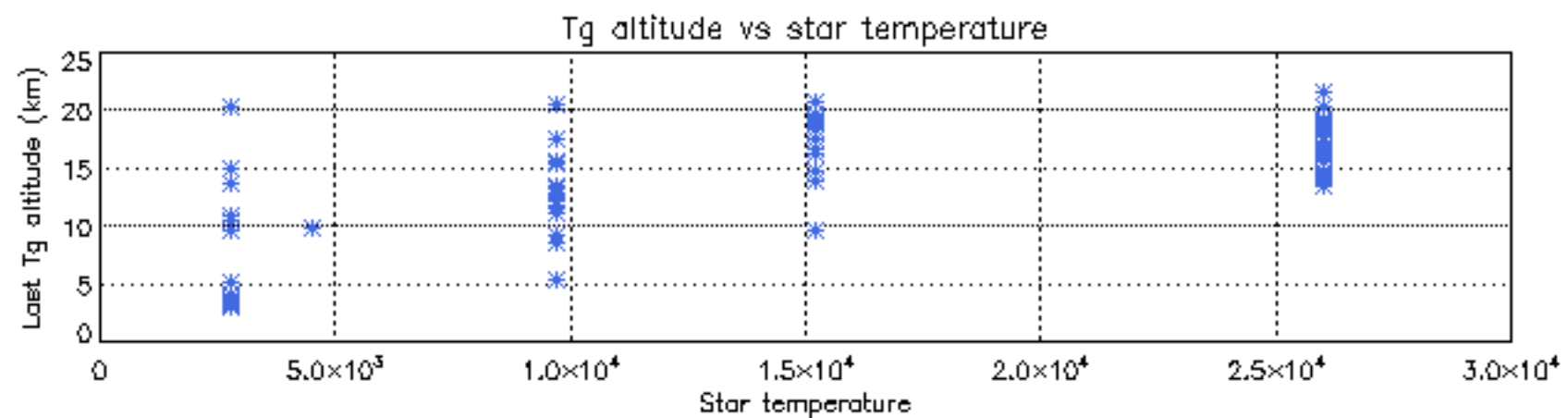
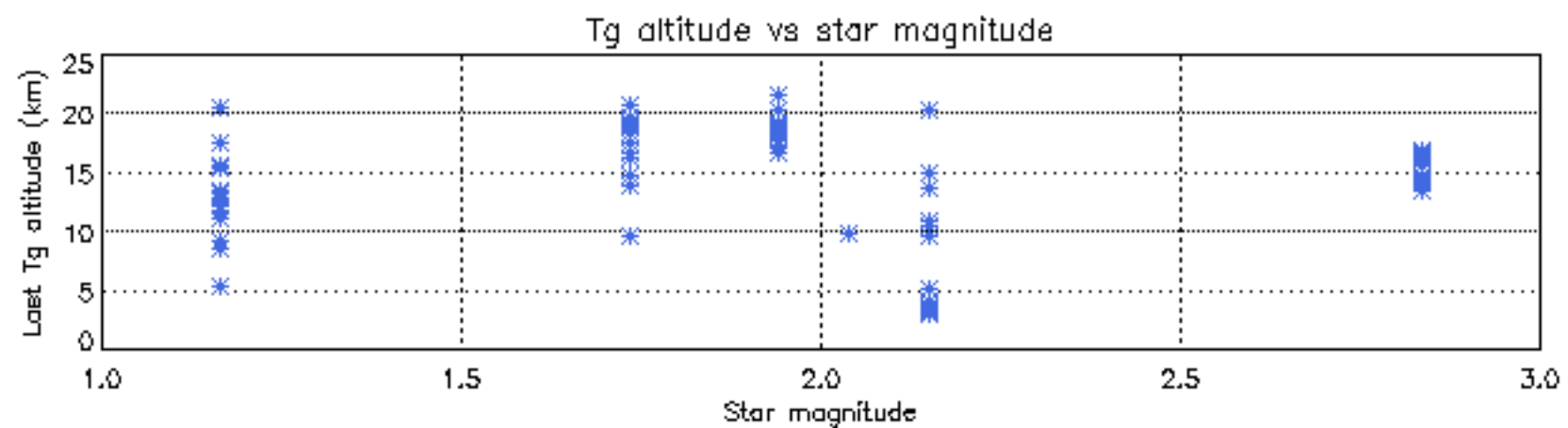
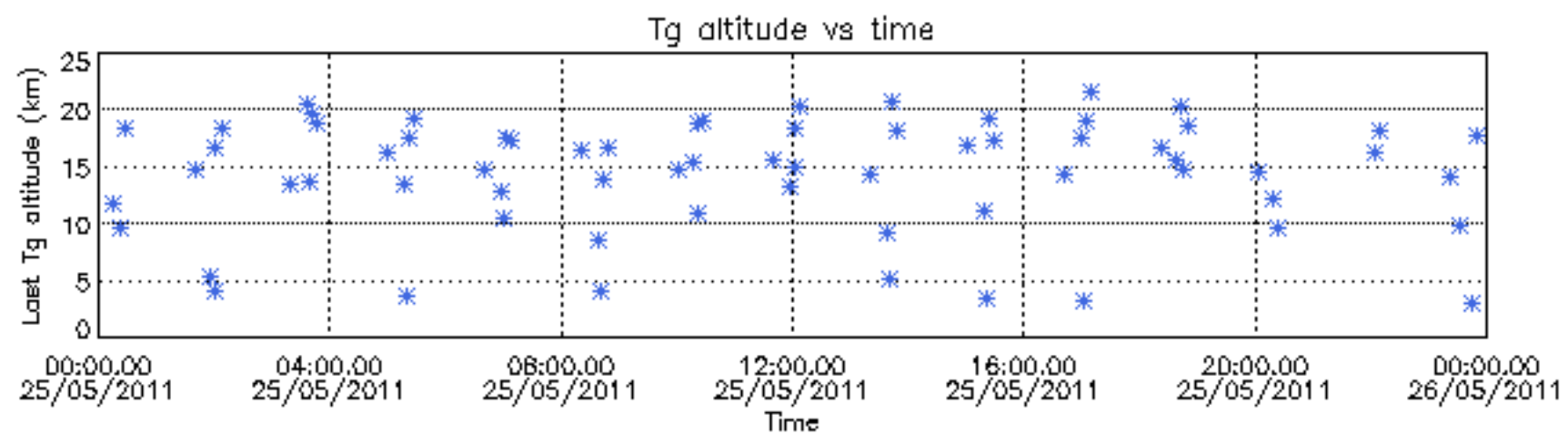
Percentage of star falling outside central band per profile



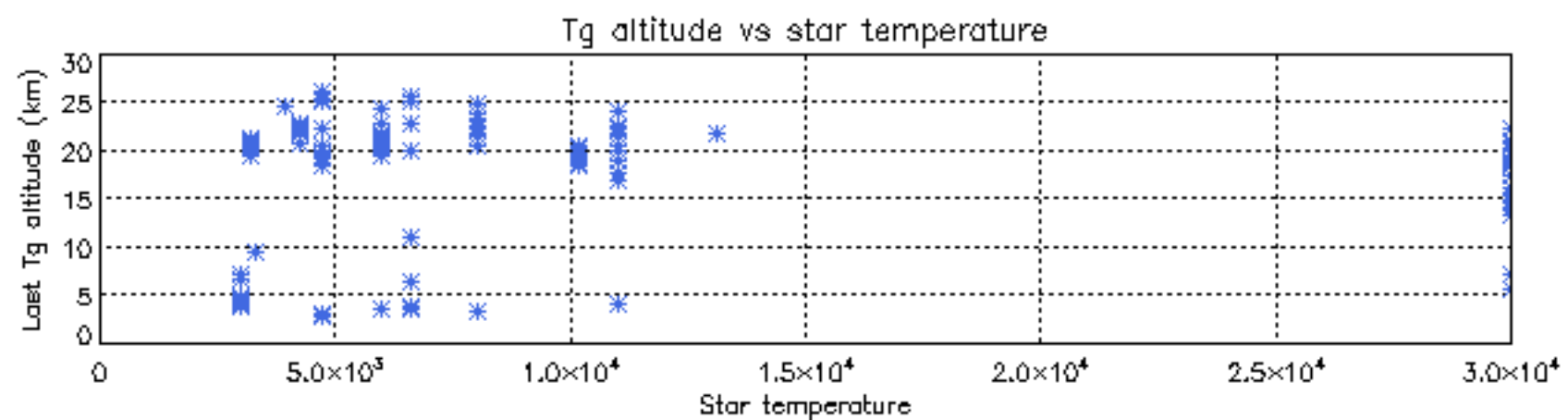
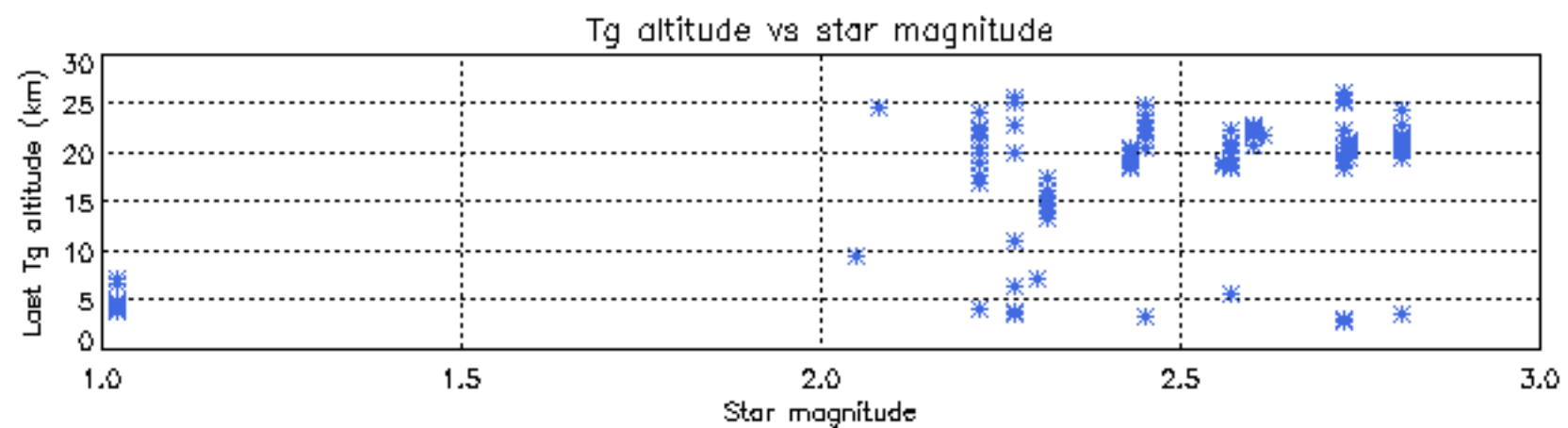
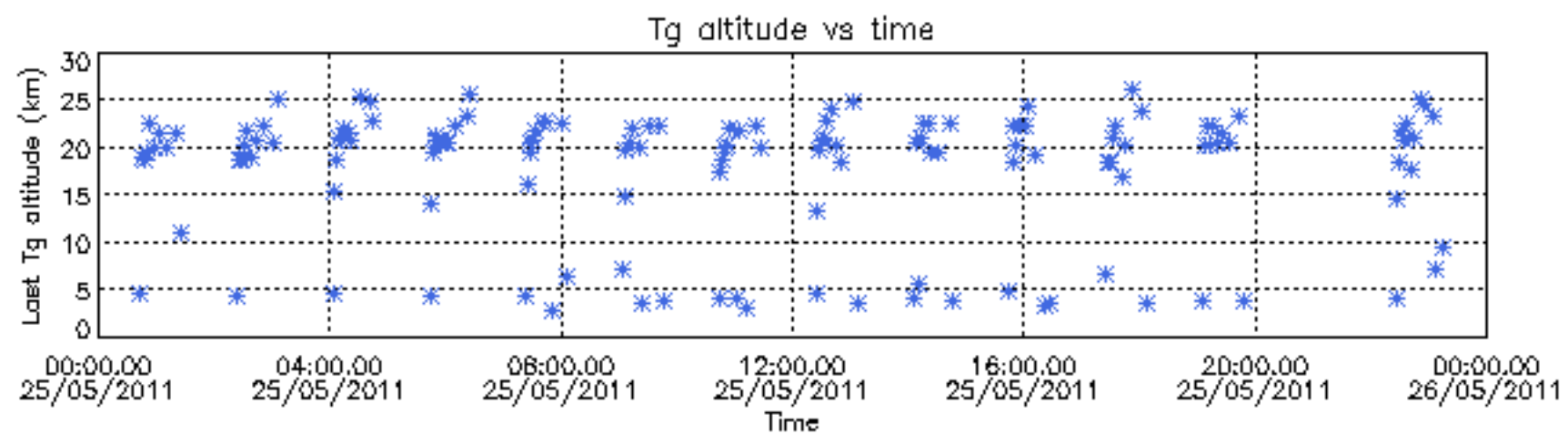
Percentage of saturation errors per profile

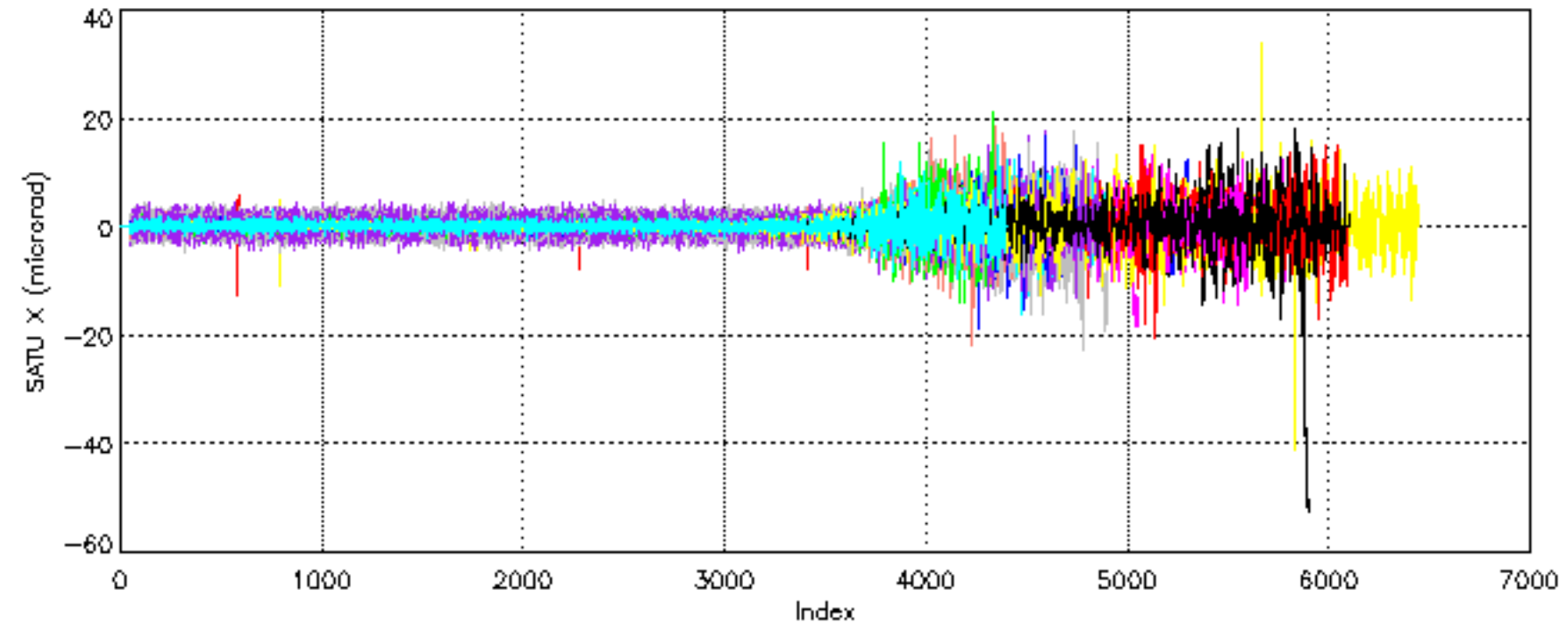


Tangent altitude at which the star is lost

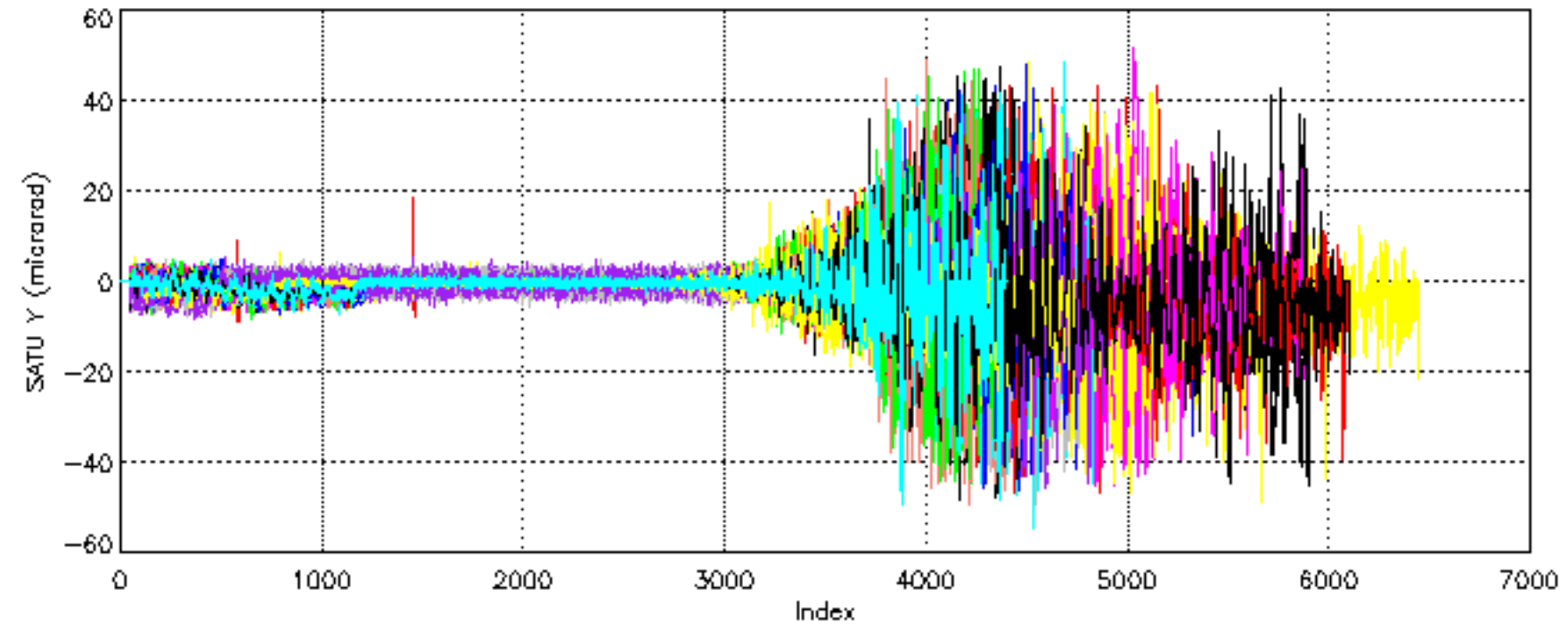


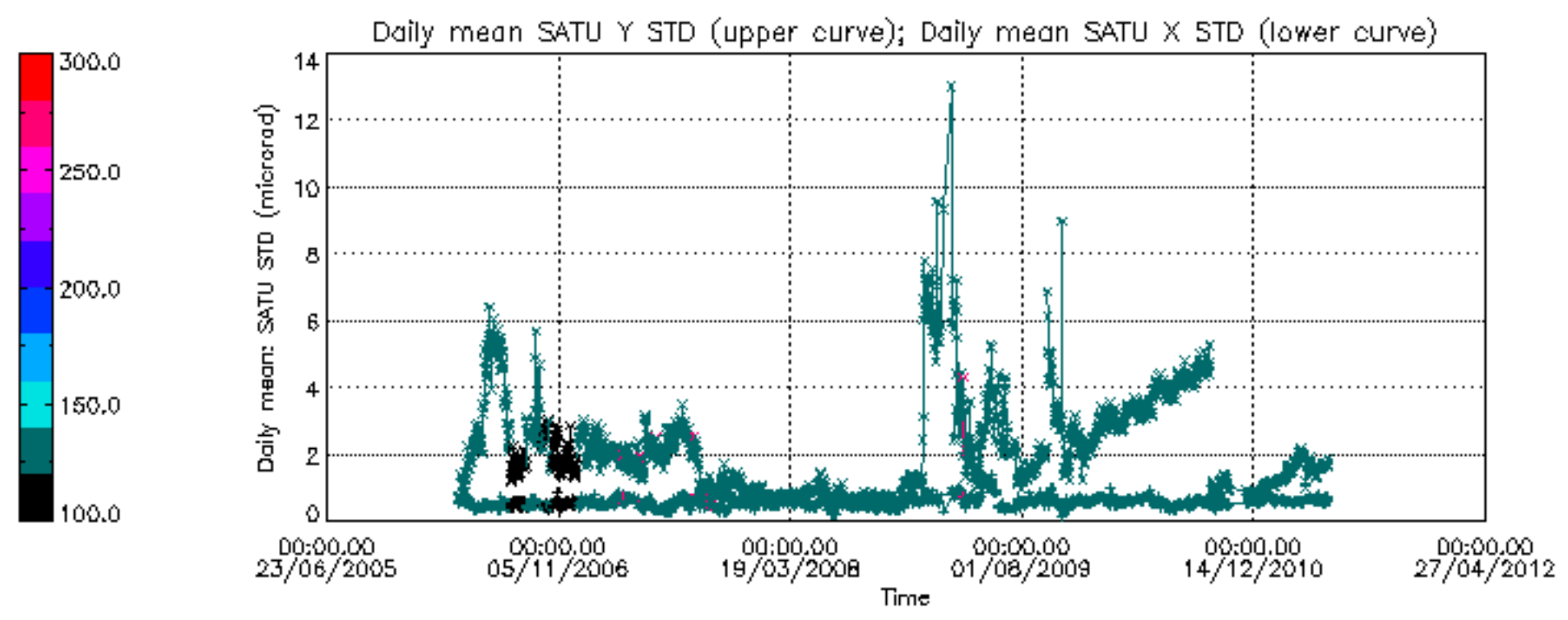
Tangent altitude at which the star is lost











```

/data4_2/GOMOS/data_tmp/GOM_NL__0PNPDE20110511_002754_000051163102_00217_48076_5711.N1
 1; -259.5; 11-MAY-2011 00:27:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48076
 2; -138.6; 11-MAY-2011 00:29:55; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;48076
 3; -57.9; 11-MAY-2011 00:31:16; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;48076
 4; 276.6; 11-MAY-2011 00:36:50; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48077
 5; 717.5; 11-MAY-2011 00:44:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;48077
 6; 860.3; 11-MAY-2011 00:46:34; Dark ; 55.0; 40; The Sco ; 1.86; 7100;occ; 110; 0;48077
 7; 970.8; 11-MAY-2011 00:48:24; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;48077
 8; 1123.8; 11-MAY-2011 00:50:57; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;48077
 9; 1318.6; 11-MAY-2011 00:54:12; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;48077
10; 1429.3; 11-MAY-2011 00:56:03; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;48077
11; 1597.0; 11-MAY-2011 00:58:51; Bright; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;48077
12; 1713.5; 11-MAY-2011 01:00:47; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;48077
13; 2053.5; 11-MAY-2011 01:06:27; Bright; 48.5; 102; 24Alp Ser ; 2.60; 4250;occ; 97; 0;48077
14; 2224.0; 11-MAY-2011 01:09:18; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;48077
15; 2382.3; 11-MAY-2011 01:11:56; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;48077
16; 2568.3; 11-MAY-2011 01:15:02; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;48077
17; 3105.1; 11-MAY-2011 01:23:59; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;48077
18; 3754.5; 11-MAY-2011 01:34:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;48077
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17; 6397.3; 21-MAY-2011 14:34:04; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;48229
18; 6875.3; 21-MAY-2011 14:42:01; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;48229
19; 6971.0; 21-MAY-2011 14:43:37; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;48229
20; 7081.5; 21-MAY-2011 14:45:28; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;48229
21; 7206.5; 21-MAY-2011 14:47:33; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;48229
22; 7379.8; 21-MAY-2011 14:50:26; Dark ; 38.0; 16; 21Alp Sco ; 1.02; 3000;occ; 76; 0;48229
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 2; 1461.7; 21-MAY-2011 14:52:02; Bright; 45.0; 80; 7Del Sco ; 2.32; 30000;occ; 90; 0;48229
 3; 1566.1; 21-MAY-2011 14:53:46; Bright; 54.0; 86; 35Eta Oph ; 2.43; 10200;occ; 108; 0;48229
 4; 1689.2; 21-MAY-2011 14:55:49; Bright; 48.0; 98; 13Zet Oph ; 2.57; 30000;occ; 96; 0;48229

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6; 2014.6; 21-MAY-2011 15:01:15; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;48229  
7; 2384.0; 21-MAY-2011 15:07:24; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;48229  
8; 2602.0; 21-MAY-2011 15:11:02; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;48229  
9; 3035.9; 21-MAY-2011 15:18:16; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;48229  
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11; 3685.5; 21-MAY-2011 15:29:06; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;48229  
12; 3934.0; 21-MAY-2011 15:33:14; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;48229  
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17; 5893.2; 21-MAY-2011 16:05:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;48229  
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22; 7082.2; 21-MAY-2011 16:25:42; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;48230  
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3; 1069.1; 21-MAY-2011 19:46:11; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;48232  
4; 1193.8; 21-MAY-2011 19:48:16; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;48232  
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6; 1462.1; 21-MAY-2011 19:52:44; Bright; 44.0; 80; 7Del Sco ; 2.32; 30000;occ; 88; 0;48232  
7; 1566.3; 21-MAY-2011 19:54:29; Bright; 53.5; 86; 35Eta Oph ; 2.43; 10200;occ; 107; 0;48232  
8; 1689.0; 21-MAY-2011 19:56:31; Bright; 47.0; 98; 13Zet Oph ; 2.57; 30000;occ; 94; 0;48232  
9; 1829.3; 21-MAY-2011 19:58:52; Bright; 44.5; 120; 1Del Oph ; 2.73; 3200;occ; 89; 0;48232  
10; 2014.3; 21-MAY-2011 20:01:57; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;48232  
11; 2383.0; 21-MAY-2011 20:08:05; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;48232  
12; 2599.6; 21-MAY-2011 20:11:42; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;48232  
13; 3034.6; 21-MAY-2011 20:18:57; Bright; 59.0; 119; 14Eta Dra ; 2.73; 4700;occ; 118; 0;48232  
14; 3135.1; 21-MAY-2011 20:20:37; Bright; 54.5; 69; 33Gam Dra ; 2.23; 3800;occ; 109; 0;48232  
15; 3683.8; 21-MAY-2011 20:29:46; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;48232  
16; 3933.5; 21-MAY-2011 20:33:56; Bright; 57.0; 74; 11Bet Cas ; 2.27; 6600;occ; 114; 0;48232  
17; 4507.5; 21-MAY-2011 20:43:30; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;48232  
18; 4770.7; 21-MAY-2011 20:47:53; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;48232  
19; 4893.6; 21-MAY-2011 20:49:56; Dark ; 58.0; 90; 54Alp Peg ; 2.49; 11000;occ; 116; 0;48232

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3; 62.3; 21-MAY-2011 21:09:39; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;48233  
4; 385.9; 21-MAY-2011 21:15:02; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;48233  
5; 863.2; 21-MAY-2011 21:23:00; Dark ; 44.0; 147; Alp Ara ; 2.88; 26000;occ; 88; 0;48233  
6; 959.4; 21-MAY-2011 21:24:36; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;48233  
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8; 1194.2; 21-MAY-2011 21:28:30; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;48233  
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10; 1462.2; 21-MAY-2011 21:32:59; Bright; 51.0; 80; 7Del Sco ; 2.32; 30000;occ; 102; 0;48233  
11; 1566.3; 21-MAY-2011 21:34:43; Bright; 54.0; 86; 35Eta Oph ; 2.43; 10200;occ; 108; 0;48233  
12; 1689.0; 21-MAY-2011 21:36:45; Bright; 47.0; 98; 13Zet Oph ; 2.57; 30000;occ; 94; 0;48233  
13; 1829.2; 21-MAY-2011 21:39:06; Bright; 44.5; 120; 1Del Oph ; 2.73; 3200;occ; 89; 0;48233  
14; 2013.9; 21-MAY-2011 21:42:10; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;48233  
15; 2382.6; 21-MAY-2011 21:48:19; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;48233  
16; 2598.9; 21-MAY-2011 21:51:55; Bright; 47.5; 133; 40Zet Her ; 2.81; 6000;occ; 95; 0;48233  
17; 3034.2; 21-MAY-2011 21:59:10; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;48233  
18; 3134.2; 21-MAY-2011 22:00:51; Bright; 55.0; 69; 33Gam Dra ; 2.23; 3800;occ; 110; 0;48233  
19; 3683.1; 21-MAY-2011 22:09:59; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;48233  
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21; 4507.7; 21-MAY-2011 22:23:44; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;48233  
22; 4771.0; 21-MAY-2011 22:28:07; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;48233  
23; 4894.1; 21-MAY-2011 22:30:10; Dark ; 60.0; 90; 54Alp Peg ; 2.49; 11000;occ; 120; 0;48233

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3; 63.2; 21-MAY-2011 22:49:53; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;48234  
4; 386.7; 21-MAY-2011 22:55:17; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48234

5; 863.7; 21-MAY-2011 23:03:14; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;48234  
6; 959.7; 21-MAY-2011 23:04:50; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;48234  
7; 1070.4; 21-MAY-2011 23:06:41; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;48234  
8; 1194.5; 21-MAY-2011 23:08:45; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;48234  
9; 1366.9; 21-MAY-2011 23:11:37; Dark ; 54.5; 16; 21Alp Sco ; 1.02; 3000;occ; 109; 0;48234  
10; 1462.4; 21-MAY-2011 23:13:13; Bright; 44.0; 80; 7Del Sco ; 2.32; 30000;occ; 88; 0;48234  
11; 1566.3; 21-MAY-2011 23:14:57; Bright; 53.0; 86; 35Eta Oph ; 2.43; 10200;occ; 106; 0;48234  
12; 1688.8; 21-MAY-2011 23:16:59; Bright; 48.5; 98; 13Zet Oph ; 2.57; 30000;occ; 97; 0;48234  
13; 1829.1; 21-MAY-2011 23:19:19; Bright; 44.5; 120; 1Del Oph ; 2.73; 3200;occ; 89; 0;48234  
14; 2013.7; 21-MAY-2011 23:22:24; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;48234  
15; 2382.2; 21-MAY-2011 23:28:32; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;48234  
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18; 3133.1; 21-MAY-2011 23:41:03; Bright; 47.0; 69; 33Gam Dra ; 2.23; 3800;occ; 94; 0;48234  
19; 3682.8; 21-MAY-2011 23:50:13; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;48234  
20; 3933.3; 21-MAY-2011 23:54:23; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;48234  
21; 4507.8; 22-MAY-2011 00:03:58; Dark ; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;48234  
22; 4771.3; 22-MAY-2011 00:08:22; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;48234  
23; 4895.0; 22-MAY-2011 00:10:25; Dark ; 61.0; 90; 54Alp Peg ; 2.49; 11000;occ; 122; 0;48234

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5; 1566.3; 21-MAY-2011 18:14:15; Bright; 54.5; 86; 35Eta Oph ; 2.43; 10200;occ; 109; 0;48231  
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7; 1829.6; 21-MAY-2011 18:18:38; Bright; 44.5; 120; 1Del Oph ; 2.73; 3200;occ; 89; 0;48231  
8; 2014.4; 21-MAY-2011 18:21:43; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;48231  
9; 2383.3; 21-MAY-2011 18:27:52; Bright; 39.5; 67; 5Alp CrB ; 2.22; 11000;occ; 79; 0;48231  
10; 2600.5; 21-MAY-2011 18:31:29; Bright; 51.5; 133; 40Zet Her ; 2.81; 6000;occ; 103; 0;48231  
11; 3035.2; 21-MAY-2011 18:38:44; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;48231  
12; 3136.2; 21-MAY-2011 18:40:24; Bright; 55.0; 69; 33Gam Dra ; 2.23; 3800;occ; 110; 0;48231  
13; 3684.4; 21-MAY-2011 18:49:33; Bright; 53.5; 89; 5Alp Cep ; 2.45; 8000;occ; 107; 0;48231  
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17; 4892.9; 21-MAY-2011 19:09:41; Dark ; 63.5; 90; 54Alp Peg ; 2.49; 11000;occ; 127; 0;48231  
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4; 387.3; 22-MAY-2011 00:35:31; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48235  
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7; 1070.8; 22-MAY-2011 00:46:55; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;48235  
8; 1194.7; 22-MAY-2011 00:48:59; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;48235  
9; 1367.2; 22-MAY-2011 00:51:51; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;48235  
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16; 2597.2; 22-MAY-2011 01:12:21; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;48235  
17; 3033.4; 22-MAY-2011 01:19:38; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;48235  
18; 3132.4; 22-MAY-2011 01:21:17; Bright; 54.5; 69; 33Gam Dra ; 2.23; 3800;occ; 109; 0;48235  
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 9; 389.0; 22-MAY-2011 03:56:01; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;48237  
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 22; 3032.8; 22-MAY-2011 04:40:05; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;48237  
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 8; 66.7; 22-MAY-2011 05:30:53; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;48238  
 9; 389.6; 22-MAY-2011 05:36:16; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;48238  
 10; 866.1; 22-MAY-2011 05:44:12; Dark ; 43.5; 147; Alp Ara ; 2.88; 26000;occ; 87; 0;48238  
 11; 962.1; 22-MAY-2011 05:45:48; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;48238  
 12; 1072.6; 22-MAY-2011 05:47:39; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;48238  
 13; 1196.1; 22-MAY-2011 05:49:42; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;48238  
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 22; 3032.4; 22-MAY-2011 06:20:19; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;48238  
 23; 3129.6; 22-MAY-2011 06:21:56; Bright; 53.0; 69; 33Gam Dra ; 2.23; 3800;occ; 106; 0;48238  
 24; 3680.9; 22-MAY-2011 06:31:07; Bright; 3.0; 89; 5Alp Cep ; 2.45; 8000;occ; 6; 0;48238

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 7; -111.7; 22-MAY-2011 07:08:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48238  
 8; 67.6; 22-MAY-2011 07:11:08; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;48239  
 9; 390.4; 22-MAY-2011 07:16:31; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;48239  
 10; 866.6; 22-MAY-2011 07:24:27; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;48239  
 11; 962.6; 22-MAY-2011 07:26:03; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;48239  
 12; 1073.1; 22-MAY-2011 07:27:53; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;48239  
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 4; 2380.9; 22-MAY-2011 09:29:55; Bright; 39.0; 67; 5Alp CrB ; 2.22; 11000;occ; 78; 0;48240  
 5; 2593.4; 22-MAY-2011 09:33:28; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;48240  
 6; 3031.5; 22-MAY-2011 09:40:46; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;48240  
 7; 3127.6; 22-MAY-2011 09:42:22; Bright; 54.0; 69; 33Gam Dra ; 2.23; 3800;occ; 108; 0;48240  
 8; 3679.6; 22-MAY-2011 09:51:34; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;48240  
 9; 3932.7; 22-MAY-2011 09:55:47; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;48240  
 10; 4508.9; 22-MAY-2011 10:05:23; Dark ; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;48240  
 11; 4773.6; 22-MAY-2011 10:09:48; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;48240  
 12; 4899.3; 22-MAY-2011 10:11:53; Dark ; 63.0; 90; 54Alp Peg ; 2.49; 11000;occ; 126; 0;48240  
 13; 5743.3; 22-MAY-2011 10:25:57; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;48240  
 14; 5904.4; 22-MAY-2011 10:28:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48240  
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 11; 4773.9; 22-MAY-2011 11:50:02; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;48241  
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 8; 104.5; 25-MAY-2011 07:01:46; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;48282  
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 13; 1379.4; 25-MAY-2011 07:23:01; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;48282  
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 16; 1688.8; 25-MAY-2011 07:28:10; Bright; 2.5; 98; 13Zet Oph ; 2.57; 30000;occ; 5; 0;48282

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 5; 2563.4; 25-MAY-2011 07:42:45; Bright; 46.5; 133; 40Zet Her ; 2.81; 6000;occ; 93; 0;48282  
 6; 3016.1; 25-MAY-2011 07:50:18; Bright; 58.0; 119; 14Eta Dra ; 2.73; 4700;occ; 116; 0;48282



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 9; 4516.3; 25-MAY-2011 08:15:18; Dark ; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;48282  
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 14; 6119.3; 25-MAY-2011 08:42:01; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;48283  
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 16; 7000.2; 25-MAY-2011 08:56:42; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;48283  
 17; 7109.5; 25-MAY-2011 08:58:31; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;48283  
 18; 7226.8; 25-MAY-2011 09:00:28; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;48283  
 19; 7393.8; 25-MAY-2011 09:03:15; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;48283  
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 21; 7585.1; 25-MAY-2011 09:06:27; Bright; 50.0; 86; 35Eta Oph ; 2.43; 10200;occ; 100; 0;48283  
 22; 7703.0; 25-MAY-2011 09:08:25; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;48283

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 3; 2007.7; 25-MAY-2011 09:13:43; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;48283  
 4; 2369.6; 25-MAY-2011 09:19:45; Bright; 40.0; 67; 5Alp CrB ; 2.22; 11000;occ; 80; 0;48283  
 5; 2562.7; 25-MAY-2011 09:22:58; Bright; 69.0; 133; 40Zet Her ; 2.81; 6000;occ; 138; 0;48283  
 6; 3015.7; 25-MAY-2011 09:30:31; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;48283  
 7; 3657.3; 25-MAY-2011 09:41:13; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;48283  
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 9; 4516.5; 25-MAY-2011 09:55:32; Dark ; 49.5; 58; 21Alp And ; 2.07; 11000;occ; 99; 0;48283  
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 14; 6120.4; 25-MAY-2011 10:22:16; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;48284  
 15; 6436.0; 25-MAY-2011 10:27:32; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48284  
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 17; 7110.1; 25-MAY-2011 10:38:46; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;48284  
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 19; 7393.9; 25-MAY-2011 10:43:29; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;48284  
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 21; 7584.9; 25-MAY-2011 10:46:40; Bright; 51.0; 86; 35Eta Oph ; 2.43; 10200;occ; 102; 0;48284  
 22; 7702.8; 25-MAY-2011 10:48:38; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;48284

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 3; 2007.5; 25-MAY-2011 10:53:57; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;48284  
 4; 2369.7; 25-MAY-2011 10:59:59; Bright; 57.0; 67; 5Alp CrB ; 2.22; 11000;occ; 114; 0;48284  
 5; 2561.9; 25-MAY-2011 11:03:11; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;48284  
 6; 3015.3; 25-MAY-2011 11:10:45; Bright; 58.0; 119; 14Eta Dra ; 2.73; 4700;occ; 116; 0;48284  
 7; 3656.7; 25-MAY-2011 11:21:26; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;48284  
 8; 3927.1; 25-MAY-2011 11:25:57; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;48284  
 9; 4516.6; 25-MAY-2011 11:35:46; Dark ; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;48284  
 10; 4790.3; 25-MAY-2011 11:40:20; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;48284  
 11; 5229.8; 25-MAY-2011 11:47:39; Dark ; 49.5; 0; ; 0.00; 0;occ; 99; 0;48284  
 12; 5788.5; 25-MAY-2011 11:56:58; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;48284  
 13; 6016.8; 25-MAY-2011 12:00:46; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;48284  
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 17; 7110.7; 25-MAY-2011 12:19:00; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;48285  
 18; 7227.4; 25-MAY-2011 12:20:57; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;48285  
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 3; 2007.6; 25-MAY-2011 12:34:11; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;48285  
 4; 2369.5; 25-MAY-2011 12:40:13; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;48285  
 5; 2561.3; 25-MAY-2011 12:43:25; Bright; 48.0; 133; 40Zet Her ; 2.81; 6000;occ; 96; 0;48285

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19; 7394.4; 25-MAY-2011 14:03:58; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;48286
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5; 2369.1; 25-MAY-2011 14:20:26; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;48286
6; 2560.8; 25-MAY-2011 14:23:38; Bright; 48.5; 133; 40Zet Her ; 2.81; 6000;occ; 97; 0;48286
7; 3014.8; 25-MAY-2011 14:31:12; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;48286
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11; 4791.2; 25-MAY-2011 15:00:49; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;48286
12; 5211.6; 25-MAY-2011 15:07:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48286
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14; 6018.5; 25-MAY-2011 15:21:16; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;48286
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16; 6438.1; 25-MAY-2011 15:28:15; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;48287
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4; 1825.0; 25-MAY-2011 15:51:36; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 0;48287
5; 2007.2; 25-MAY-2011 15:54:38; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;48287
6; 2369.0; 25-MAY-2011 16:00:40; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;48287
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9; 3655.1; 25-MAY-2011 16:22:06; Bright; 68.0; 89; 5Alp Cep ; 2.45; 8000;occ; 136; 0;48287
10; 3926.8; 25-MAY-2011 16:26:38; Bright; 58.0; 74; 11Bet Cas ; 2.27; 6600;occ; 116; 0;48287
11; 4517.2; 25-MAY-2011 16:36:28; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;48287
12; 4791.3; 25-MAY-2011 16:41:03; Dark ; 48.5; 140; 88Gam Peg ; 2.83; 26000;occ; 97; 0;48287
13; 5206.2; 25-MAY-2011 16:47:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48287
14; 5791.8; 25-MAY-2011 16:57:43; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;48287
15; 6019.1; 25-MAY-2011 17:01:30; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;48287
16; 6123.7; 25-MAY-2011 17:03:15; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;48288
17; 6438.8; 25-MAY-2011 17:08:30; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;48288
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3; 1380.8; 25-MAY-2011 17:24:26; Dark ; 55.0; 16; 21Alp Sco ; 1.02; 3000;occ; 110; 0;48288
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8; 2368.6; 25-MAY-2011 17:40:54; Bright; 42.0; 67; 5Alp CrB ; 2.22; 11000;occ; 84; 0;48288
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10; 3013.9; 25-MAY-2011 17:51:39; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;48288
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