GOMOS Daily Report 06-AUG-2007

Level 0 and Level 1 products

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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.

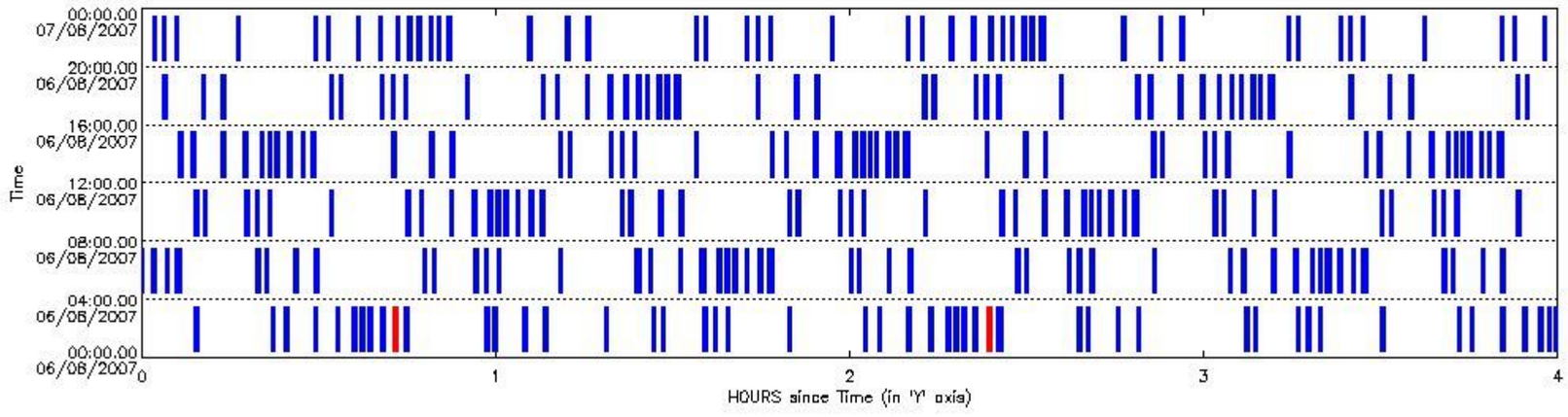
Item	Value
Time of report generation	08AUG2007 06:09:16
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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
06-AUG-2007 00:42:29	1ZetCMa	177	28398
06-AUG-2007 02:23:05	1ZetCMa	177	28399
06-AUG-2007 07:04:01	34BetAur	42	28402
06-AUG-2007 07:06:18	37TheAur	107	28402
06-AUG-2007 07:11:19	23ZetTau	176	28402
06-AUG-2007 07:15:02	58AlpOri	14	28402
06-AUG-2007 07:17:54	46EpsOri	30	28402
06-AUG-2007 07:19:15	44IotOri	125	28402
06-AUG-2007 07:20:30	19BetOri	7	28402
06-AUG-2007 07:22:36	11AlpLep	101	28402
06-AUG-2007 07:24:54	1ZetCMa	177	28402
06-AUG-2007 07:26:32	DSA1059	0	28402
06-AUG-2007 07:40:14	AlpEri	9	28403
06-AUG-2007 07:41:43	BetHyi	135	28403
06-AUG-2007 07:46:47	AlpTuc	148	28403

06-AUG-2007 07:50:13	AlpGru	31	28403
06-AUG-2007 13:10:25	53AlpAql	11	28406
06-AUG-2007 13:11:59	17ZetAql	168	28406
06-AUG-2007 13:19:05	3AlpLyr	5	28406
06-AUG-2007 13:20:50	18DelCyg	144	28406
06-AUG-2007 13:22:59	33GamDra	69	28406
06-AUG-2007 13:33:28	1AlpUMi	49	28406
06-AUG-2007 13:46:25	34BetAur	42	28406
06-AUG-2007 13:48:42	37TheAur	107	28406
06-AUG-2007 13:53:43	23ZetTau	176	28406
06-AUG-2007 13:57:27	58AlpOri	14	28406
06-AUG-2007 14:00:19	46EpsOri	30	28406
06-AUG-2007 14:01:41	44IotOri	125	28406
06-AUG-2007 14:02:56	19BetOri	7	28406
06-AUG-2007 14:03:59	2BetCMa	47	28406
06-AUG-2007 14:05:57	9BetLep	139	28406
06-AUG-2007 14:07:19	1ZetCMa	177	28406
06-AUG-2007 14:08:57	DSA1059	0	28406
06-AUG-2007 14:22:41	AlpEri	9	28407
06-AUG-2007 14:29:12	AlpTuc	148	28407
06-AUG-2007 14:32:39	AlpGru	31	28407
06-AUG-2007 14:51:00	53AlpAql	11	28407
06-AUG-2007 14:52:35	17ZetAql	168	28407
06-AUG-2007 14:59:41	3AlpLyr	5	28407
06-AUG-2007 15:01:26	18DelCyg	144	28407
06-AUG-2007 15:03:35	33GamDra	69	28407
06-AUG-2007 15:14:04	1AlpUMi	49	28407
06-AUG-2007 15:27:01	34BetAur	42	28407
06-AUG-2007 15:29:18	37TheAur	107	28407
06-AUG-2007 15:34:20	23ZetTau	176	28407
06-AUG-2007 15:38:04	58AlpOri	14	28407
06-AUG-2007 15:40:56	46EpsOri	30	28407
06-AUG-2007 15:42:17	44IotOri	125	28407
06-AUG-2007 15:43:33	19BetOri	7	28407
06-AUG-2007 15:44:36	2BetCMa	47	28407
06-AUG-2007 15:46:33	9BetLep	139	28407
06-AUG-2007 15:47:55	1ZetCMa	177	28407
06-AUG-2007 15:49:33	DSA1059	0	28407
06-AUG-2007 16:03:17	AlpEri	9	28408
06-AUG-2007 16:09:49	AlpTuc	148	28408
06-AUG-2007 16:13:15	AlpGru	31	28408
06-AUG-2007 16:31:36	53AlpAql	11	28408
06-AUG-2007 16:33:11	17ZetAql	168	28408
06-AUG-2007 16:40:17	3AlpLyr	5	28408
06-AUG-2007 16:42:02	18DelCyg	144	28408
06-AUG-2007 16:44:11	33GamDra	69	28408
06-AUG-2007 16:54:39	1AlpUMi	49	28408
06-AUG-2007 17:07:37	34BetAur	42	28408
06-AUG-2007 17:09:54	37TheAur	107	28408
06-AUG-2007 17:14:56	23ZetTau	176	28408
06-AUG-2007 17:18:40	58AlpOri	14	28408
06-AUG-2007 17:21:32	46EpsOri	30	28408
06-AUG-2007 17:23:37	53KapOri	56	28408
06-AUG-2007 17:25:12	2BetCMa	47	28408
06-AUG-2007 17:27:10	9BetLep	139	28408
06-AUG-2007 17:28:31	1ZetCMa	177	28408
06-AUG-2007 17:30:09	DSA1059	0	28408
06-AUG-2007 17:43:54	AlpEri	9	28409
06-AUG-2007 17:50:25	AlpTuc	148	28409

06-AUG-2007 17:53:52	AlpGru	31	28409
06-AUG-2007 18:12:12	53AlpAql	11	28409
06-AUG-2007 18:13:47	17ZetAql	168	28409
06-AUG-2007 18:20:53	3AlpLyr	5	28409
06-AUG-2007 18:22:38	18DelCyg	144	28409
06-AUG-2007 18:24:47	33GamDra	69	28409
06-AUG-2007 18:35:15	1AlpUMi	49	28409
06-AUG-2007 18:48:13	34BetAur	42	28409
06-AUG-2007 18:50:30	37TheAur	107	28409
06-AUG-2007 18:55:32	23ZetTau	176	28409
06-AUG-2007 18:59:16	58AlpOri	14	28409
06-AUG-2007 19:02:08	46EpsOri	30	28409
06-AUG-2007 19:04:14	53KapOri	56	28409
06-AUG-2007 19:05:48	2BetCMa	47	28409
06-AUG-2007 19:07:46	9BetLep	139	28409
06-AUG-2007 19:09:07	1ZetCMa	177	28409
06-AUG-2007 19:10:46	DSA1059	0	28409
06-AUG-2007 19:24:31	AlpEri	9	28410
06-AUG-2007 19:31:01	AlpTuc	148	28410
06-AUG-2007 19:34:28	AlpGru	31	28410
06-AUG-2007 19:52:48	53AlpAql	11	28410
06-AUG-2007 19:54:23	17ZetAql	168	28410
06-AUG-2007 20:01:29	3AlpLyr	5	28410
06-AUG-2007 20:03:13	18DelCyg	144	28410
06-AUG-2007 20:05:23	33GamDra	69	28410
06-AUG-2007 20:15:51	1AlpUMi	49	28410
06-AUG-2007 20:28:49	34BetAur	42	28410
06-AUG-2007 20:31:06	37TheAur	107	28410
06-AUG-2007 20:36:08	23ZetTau	176	28410
06-AUG-2007 20:39:52	58AlpOri	14	28410
06-AUG-2007 20:42:45	46EpsOri	30	28410
06-AUG-2007 20:44:50	53KapOri	56	28410
06-AUG-2007 20:46:24	2BetCMa	47	28410
06-AUG-2007 20:48:22	9BetLep	139	28410
06-AUG-2007 20:49:43	1ZetCMa	177	28410
06-AUG-2007 20:51:22	DSA1059	0	28410
06-AUG-2007 21:05:07	AlpEri	9	28411
06-AUG-2007 21:11:38	AlpTuc	148	28411
06-AUG-2007 21:15:04	AlpGru	31	28411
06-AUG-2007 21:33:24	53AlpAql	11	28411
06-AUG-2007 21:34:59	17ZetAql	168	28411
06-AUG-2007 21:42:06	3AlpLyr	5	28411
06-AUG-2007 21:43:49	18DelCyg	144	28411
06-AUG-2007 21:46:00	33GamDra	69	28411
06-AUG-2007 21:56:27	1AlpUMi	49	28411
06-AUG-2007 22:09:25	34BetAur	42	28411
06-AUG-2007 22:11:42	37TheAur	107	28411
06-AUG-2007 22:16:44	23ZetTau	176	28411
06-AUG-2007 22:20:29	58AlpOri	14	28411
06-AUG-2007 22:23:21	46EpsOri	30	28411
06-AUG-2007 22:25:26	53KapOri	56	28411
06-AUG-2007 22:27:00	2BetCMa	47	28411
06-AUG-2007 22:28:59	9BetLep	139	28411
06-AUG-2007 22:30:19	1ZetCMa	177	28411
06-AUG-2007 22:31:58	DSA1059	0	28411
06-AUG-2007 22:45:44	AlpEri	9	28412
06-AUG-2007 22:52:14	AlpTuc	148	28412
06-AUG-2007 22:55:41	AlpGru	31	28412
06-AUG-2007 23:14:00	53AlpAql	11	28412

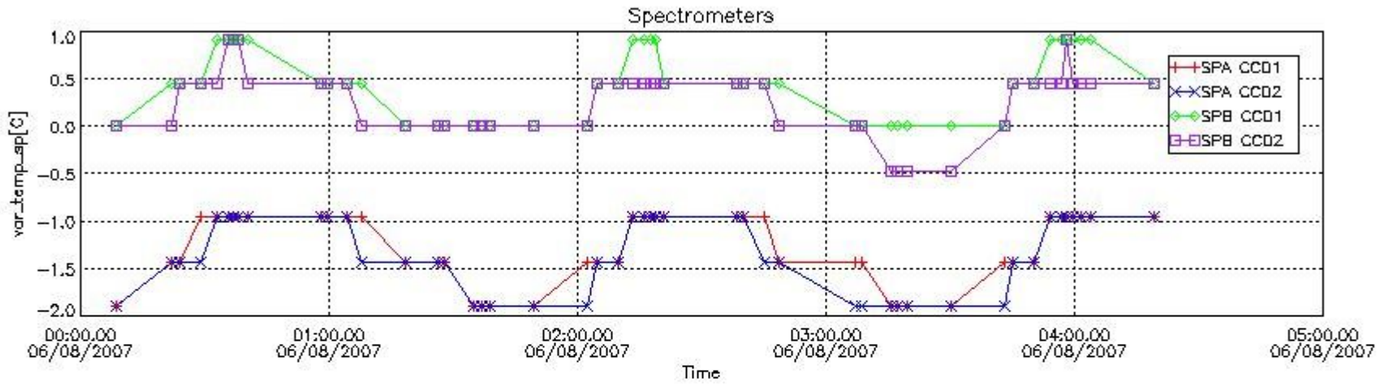
06-AUG-2007 23:15:35	17ZetAql	168	28412
06-AUG-2007 23:22:42	3AlpLyr	5	28412
06-AUG-2007 23:24:25	18DelCyg	144	28412
06-AUG-2007 23:26:36	33GamDra	69	28412
06-AUG-2007 23:37:03	1AlpUMi	49	28412
06-AUG-2007 23:50:01	34BetAur	42	28412
06-AUG-2007 23:52:18	37TheAur	107	28412
06-AUG-2007 23:57:21	23ZetTau	176	28412

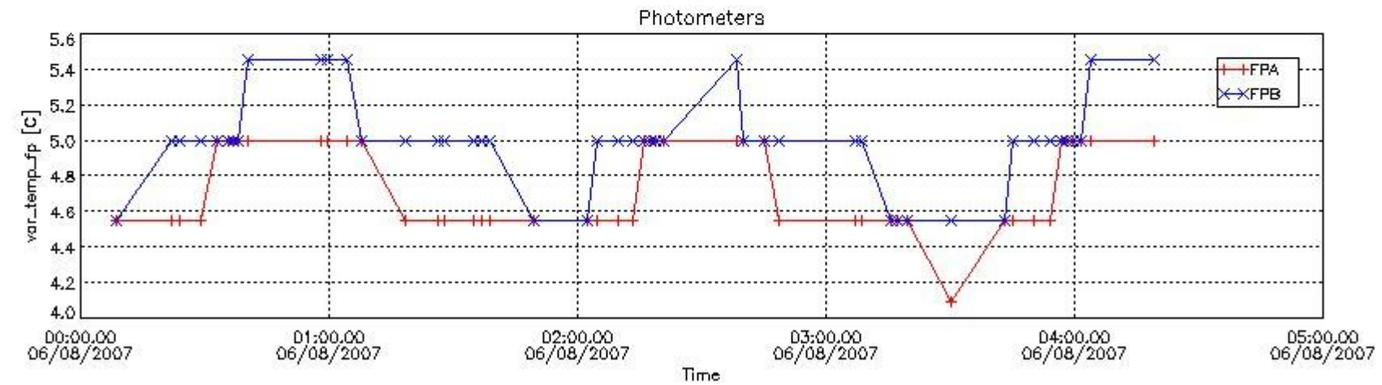
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070806_000849_000000352060_00288_28398_5606.N1	06-AUG-2007 00:08:49	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28398	No
2	GOM_TRA_1PNPDE20070806_002145_000000352060_00288_28398_5607.N1	06-AUG-2007 00:21:45	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28398	No
3	GOM_TRA_1PNPDE20070806_002402_000000492060_00288_28398_5608.N1	06-AUG-2007 00:24:02	Bright	48.500	107	37The Aur	2.6490	11000.	97	28398	No
4	GOM_TRA_1PNPDE20070806_002903_000000392060_00288_28398_5609.N1	06-AUG-2007 00:29:03	Twi_and_stray	38.500	176	23Zet Tau	3.0200	22000.	77	28398	No
5	GOM_TRA_1PNPDE20070806_003246_000000402060_00288_28398_5610.N1	06-AUG-2007 00:32:46	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	28398	No
6	GOM_TRA_1PNPDE20070806_003537_000000462060_00288_28398_5611.N1	06-AUG-2007 00:35:37	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	28398	No
7	GOM_TRA_1PNPDE20070806_003658_000000412060_00288_28398_5612.N1	06-AUG-2007 00:36:58	Dark	41.000	125	44Iot Ori	2.7700	30000.	82	28398	No
8	GOM_TRA_1PNPDE20070806_003813_000000472060_00288_28398_5613.N1	06-AUG-2007 00:38:13	Dark	47.000	7	19Bet Ori	0.10000	14000.	94	28398	No
9	GOM_TRA_1PNPDE20070806_004019_000000432060_00288_28398_5754.N1	06-AUG-2007 00:40:19	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	28398	No
10	GOM_TRA_1PNPDE20070806_005756_000000532060_00289_28399_5755.N1	06-AUG-2007 00:57:56	Dark	53.000	9	Alp Eri	0.45300	24000.	106	28399	No
11	GOM_TRA_1PNPDE20070806_005927_000000372060_00289_28399_5756.N1	06-AUG-2007 00:59:27	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28399	No
12	GOM_TRA_1PNPDE20070806_010430_000000492060_00289_28399_5757.N1	06-AUG-2007 01:04:30	Straylight	48.500	148	Alp Tuc	2.8780	4100.0	97	28399	No
13	GOM_TRA_1PNPDE20070806_010756_000000492060_00289_28399_5758.N1	06-AUG-2007 01:07:56	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	28399	No
14	GOM_TRA_1PNPDE20070806_011828_000000202060_00289_28399_5759.N1	06-AUG-2007 01:18:28	Bright	20.000	155	41Pi Sgr	2.9000	6600.0	40	28399	Yes
15	GOM_TRA_1PNPDE20070806_012621_000000372060_00289_28399_5760.N1	06-AUG-2007 01:26:21	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28399	No
16	GOM_TRA_1PNPDE20070806_012755_000000342060_00289_28399_5761.N1	06-AUG-2007 01:27:55	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	28399	No
17	GOM_TRA_1PNPDE20070806_013501_000000382060_00289_28399_5762.N1	06-AUG-2007 01:35:01	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28399	No
18	GOM_TRA_1PNPDE20070806_013648_000000372060_00289_28399_5763.N1	06-AUG-2007 01:36:48	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	28399	No
19	GOM_TRA_1PNPDE20070806_013854_000000352060_00289_28399_5764.N1	06-AUG-2007 01:38:54	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	28399	No
20	GOM_TRA_1PNPDE20070806_014925_000000372060_00289_28399_5765.N1	06-AUG-2007 01:49:25	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28399	No
21	GOM_TRA_1PNPDE20070806_020221_000000352060_00289_28399_5766.N1	06-AUG-2007 02:02:21	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28399	No
22	GOM_TRA_1PNPDE20070806_020439_000000392060_00289_28399_5767.N1	06-AUG-2007 02:04:39	Bright	39.000	107	37The Aur	2.6490	11000.	78	28399	No
23	GOM_TRA_1PNPDE20070806_020939_000000412060_00289_28399_5768.N1	06-AUG-2007 02:09:39	Twi_and_stray	40.500	176	23Zet Tau	3.0200	22000.	81	28399	No
24	GOM_TRA_1PNPDE20070806_021322_000000492060_00289_28399_5769.N1	06-AUG-2007 02:13:22	Dark	48.500	14	58Alp Ori	0.87000	3000.0	97	28399	No
25	GOM_TRA_1PNPDE20070806_021613_000000452060_00289_28399_5897.N1	06-AUG-2007 02:16:13	Dark	45.000	30	46Eps Ori	1.6940	30000.	90	28399	No
26	GOM_TRA_1PNPDE20070806_021734_000000402060_00289_28399_5898.N1	06-AUG-2007 02:17:34	Dark	40.000	125	44Iot Ori	2.7700	30000.	80	28399	No
27	GOM_TRA_1PNPDE20070806_021849_000000582060_00289_28399_5899.N1	06-AUG-2007 02:18:49	Dark	58.000	7	19Bet Ori	0.10000	14000.	116	28399	No
28	GOM_TRA_1PNPDE20070806_022055_000000422060_00289_28399_5900.N1	06-AUG-2007 02:20:55	Dark	42.000	101	11Alp Lep	2.5820	7000.0	84	28399	No
29	GOM_TRA_1PNPDE20070806_023833_000000512060_00290_28400_5901.N1	06-AUG-2007 02:38:33	Dark	51.000	9	Alp Eri	0.45300	24000.	102	28400	No
30	GOM_TRA_1PNPDE20070806_024003_000000372060_00290_28400_5902.N1	06-AUG-2007 02:40:03	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28400	No
31	GOM_TRA_1PNPDE20070806_024506_000000432060_00290_28400_5903.N1	06-AUG-2007 02:45:06	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28400	No
32	GOM_TRA_1PNPDE20070806_024832_000000442060_00290_28400_5904.N1	06-AUG-2007 02:48:32	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	28400	No
33	GOM_TRA_1PNPDE20070806_030657_000000382060_00290_28400_5905.N1	06-AUG-2007 03:06:57	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	28400	No
34	GOM_TRA_1PNPDE20070806_030831_000000352060_00290_28400_5906.N1	06-AUG-2007 03:08:31	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28400	No
35	GOM_TRA_1PNPDE20070806_031537_000000332060_00290_28400_5907.N1	06-AUG-2007 03:15:37	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	28400	No
36	GOM_TRA_1PNPDE20070806_031724_000000362060_00290_28400_5908.N1	06-AUG-2007 03:17:24	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	28400	No
37	GOM_TRA_1PNPDE20070806_031930_000000342060_00290_28400_5909.N1	06-AUG-2007 03:19:30	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28400	No
38	GOM_TRA_1PNPDE20070806_033000_000000352060_00290_28400_5910.N1	06-AUG-2007 03:30:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28400	No
39	GOM_TRA_1PNPDE20070806_034257_000000362060_00290_28400_6032.N1	06-AUG-2007 03:42:57	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28400	No
40	GOM_TRA_1PNPDE20070806_034514_000000352060_00290_28400_6033.N1	06-AUG-2007 03:45:14	Bright	34.500	107	37The Aur	2.6490	11000.	69	28400	No
41	GOM_TRA_1PNPDE20070806_035015_000000422060_00290_28400_6034.N1	06-AUG-2007 03:50:15	Twi_and_stray	41.500	176	23Zet Tau	3.0200	22000.	83	28400	No
42	GOM_TRA_1PNPDE20070806_035358_000000522060_00290_28400_6035.N1	06-AUG-2007 03:53:58	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	28400	No
43	GOM_TRA_1PNPDE20070806_035650_000000422060_00290_28400_6036.N1	06-AUG-2007 03:56:50	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	28400	No
44	GOM_TRA_1PNPDE20070806_035811_000000422060_00290_28400_6037.N1	06-AUG-2007 03:58:11	Dark	41.500	125	44Iot Ori	2.7700	30000.	83	28400	No
45	GOM_TRA_1PNPDE20070806_035925_000000512060_00290_28400_6038.N1	06-AUG-2007 03:59:25	Dark	50.500	7	19Bet Ori	0.10000	14000.	101	28400	No
46	GOM_TRA_1PNPDE20070806_040132_000000432060_00290_28400_6039.N1	06-AUG-2007 04:01:32	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	28400	No

47	GOM_TRA_1PNPDE20070806_040350_000000372060_00290_28400_6040.N1	06-AUG-2007 04:03:50	Dark	37.000	177	1Zet CMa	3.0220	26000.	74	28400	No
48	GOM_TRA_1PNPDE20070806_041910_000000492060_00291_28401_6041.N1	06-AUG-2007 04:19:10	Dark	49.000	9	Alp Eri	0.45300	24000.	98	28401	No

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



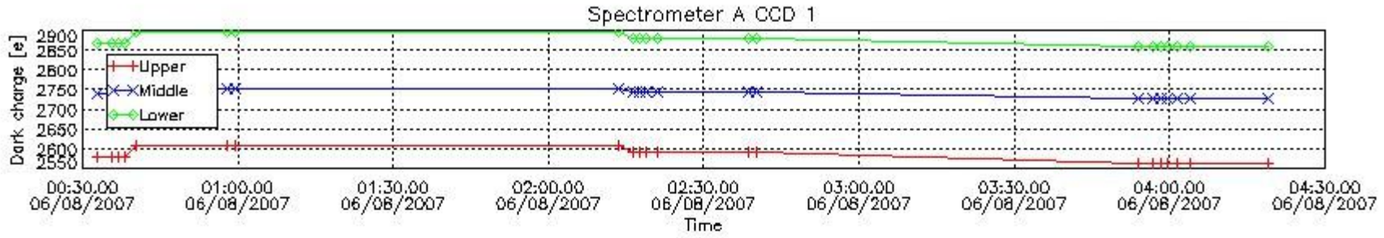


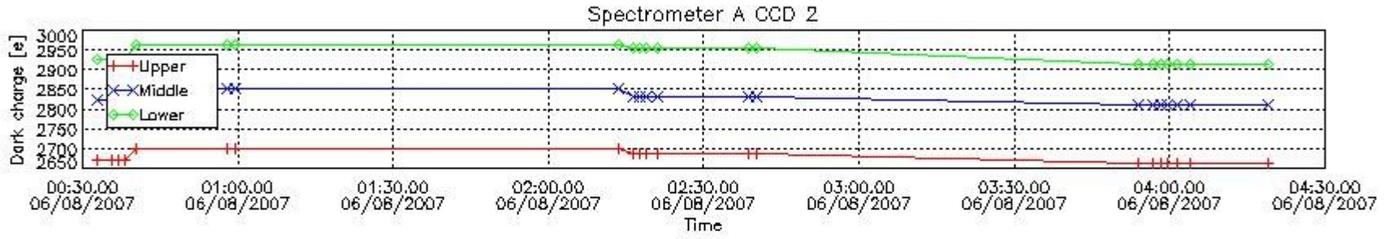
4. Overview of dark signal processing per product

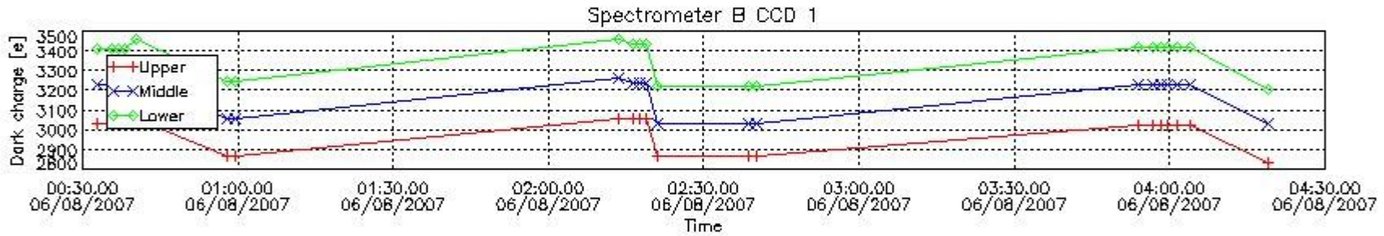
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

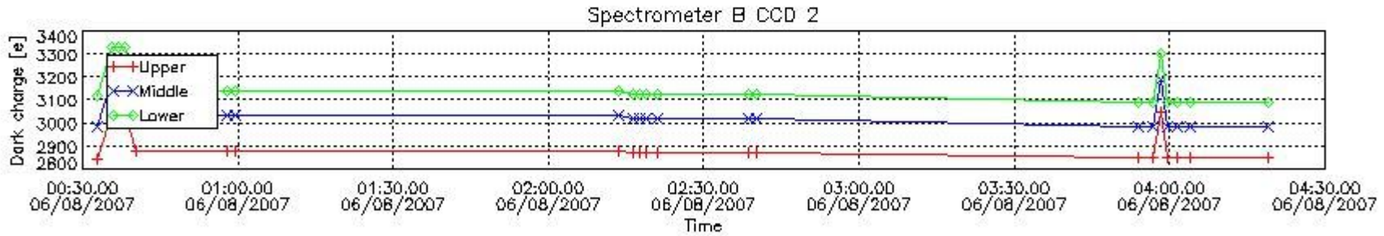
4.1 All products used the DSA observation for the DC computation

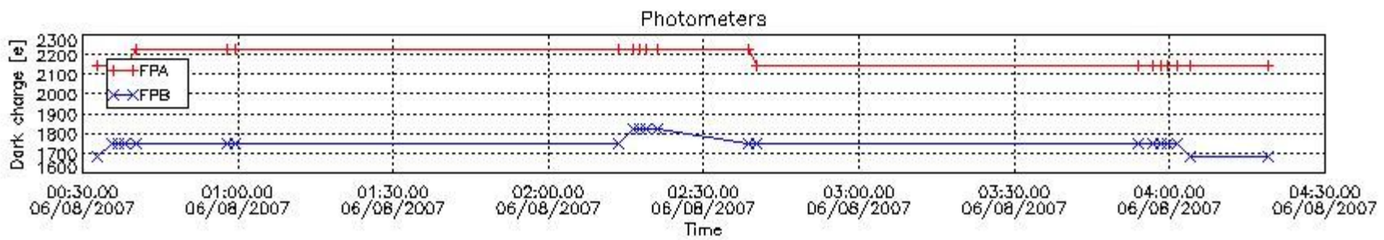
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











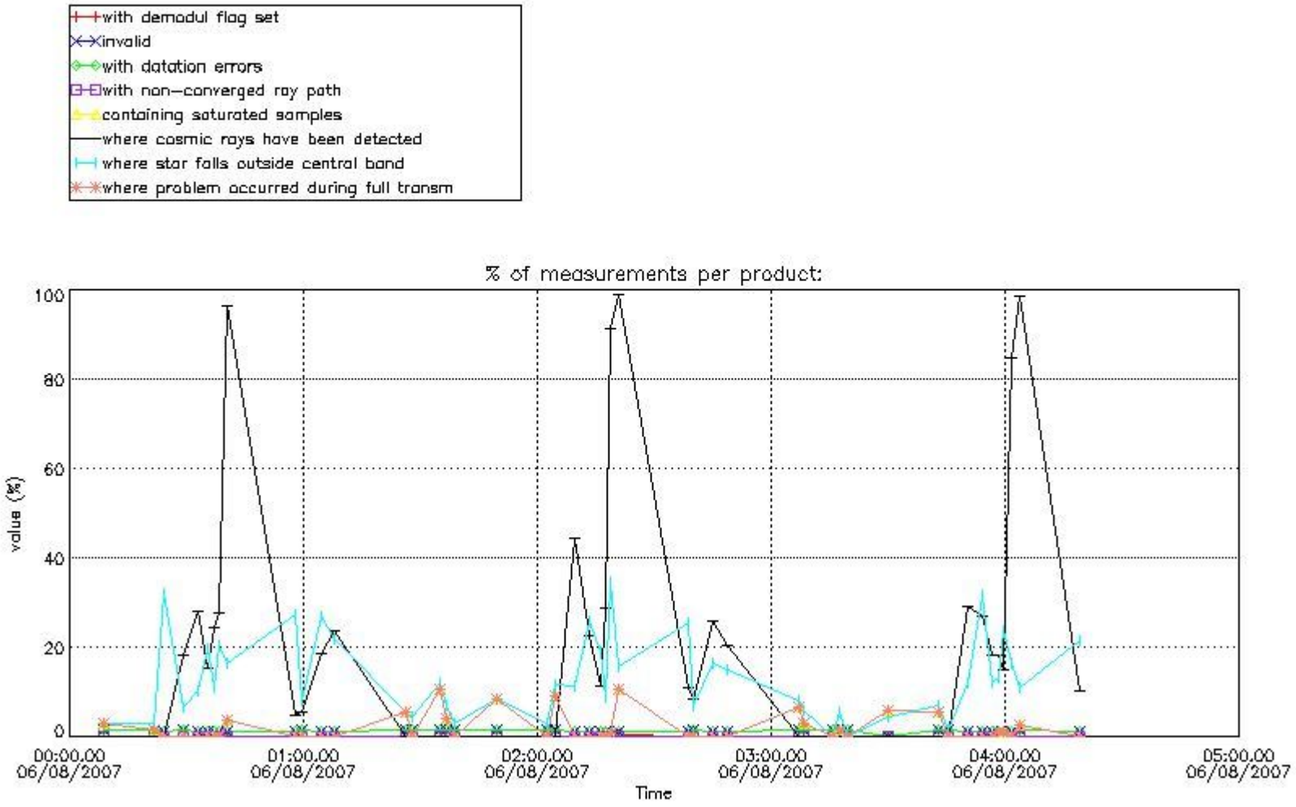
5. Demodulation flag and quality information monitoring

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.

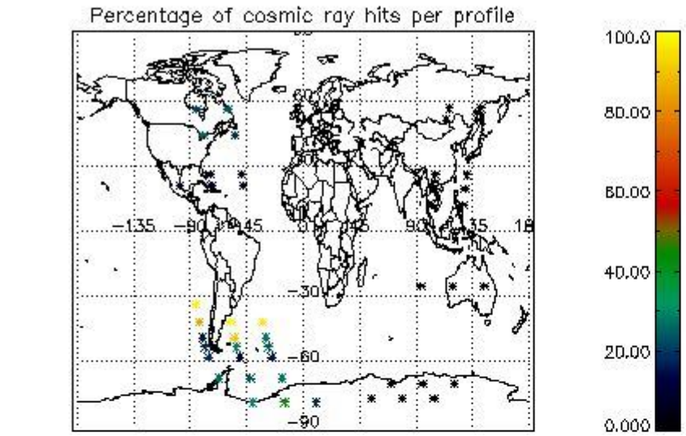
5.1 Percentage of products during reporting period with:

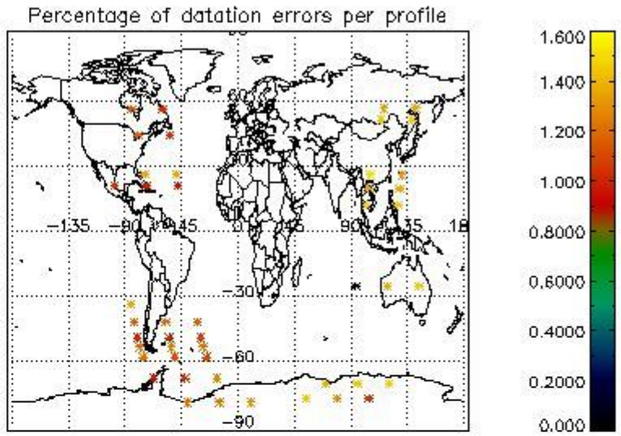
At least one measurement with demodulation flag set:	21.2766 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

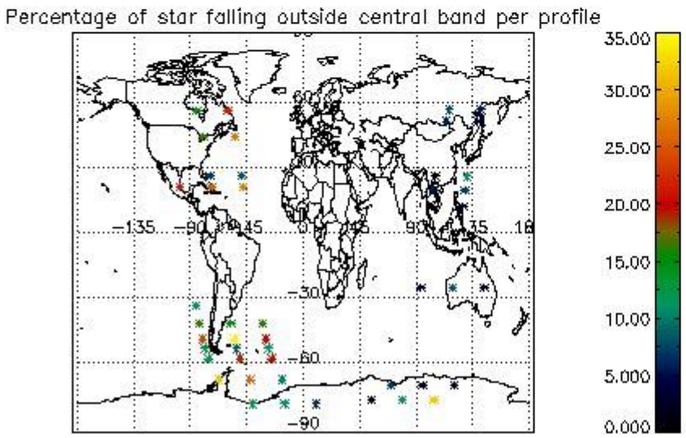
5.2 Plot quality information per product (time dependant)

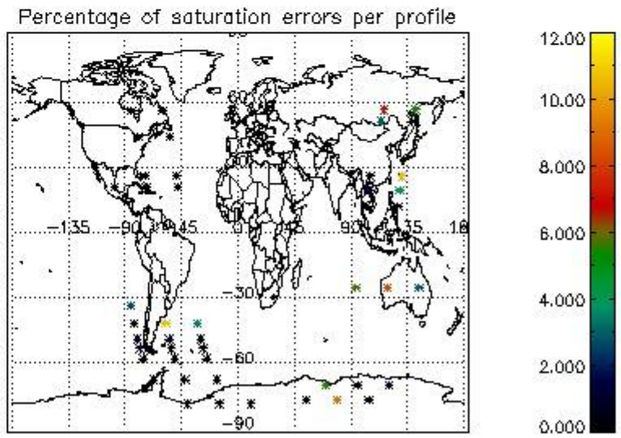


5.3 Plot quality information per product (world map)









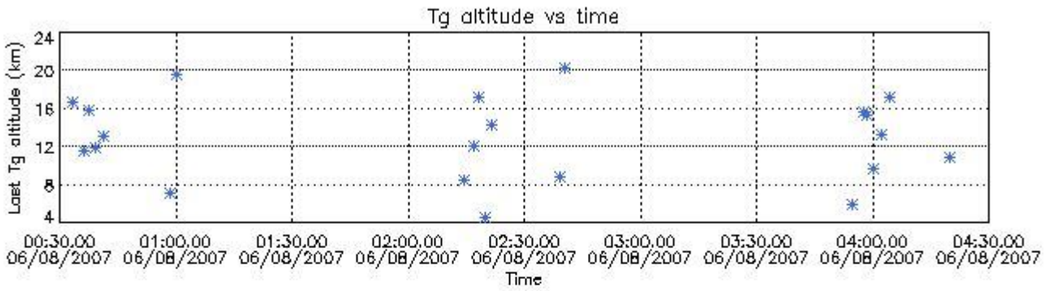
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

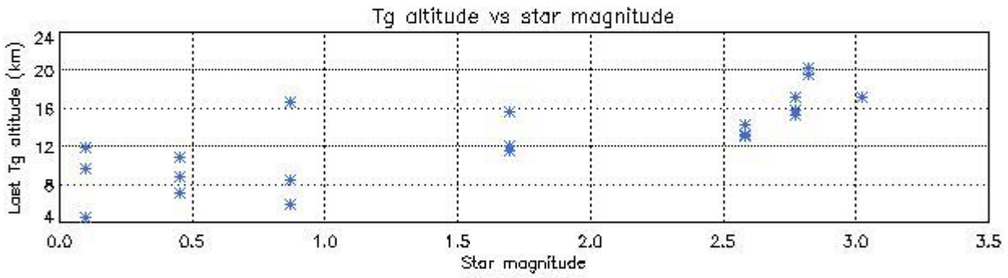
6.1 Statistics on tangent altitude lost:

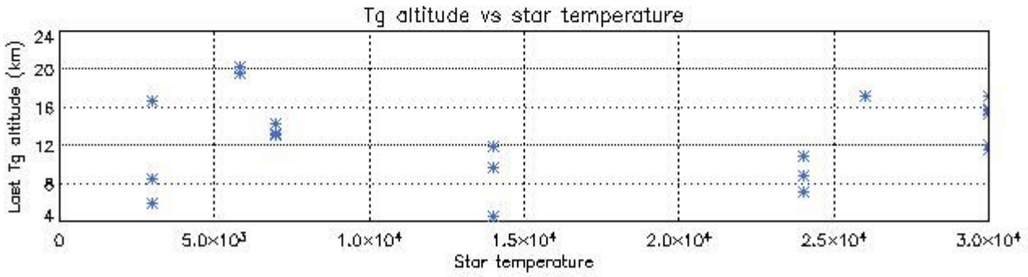
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.781	21.700	NaN
St. deviation:	4.3591	4.3655	NaN
Maximum:	20.252	26.769	NaN
Minimum:	4.5276	8.0926	NaN
Number of data:	21.000	19.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

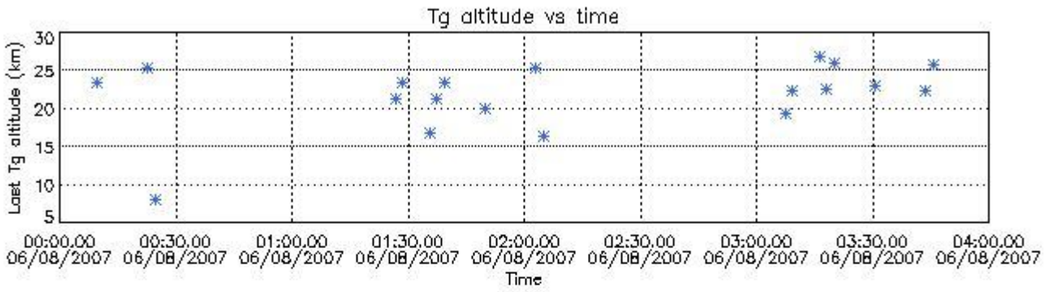


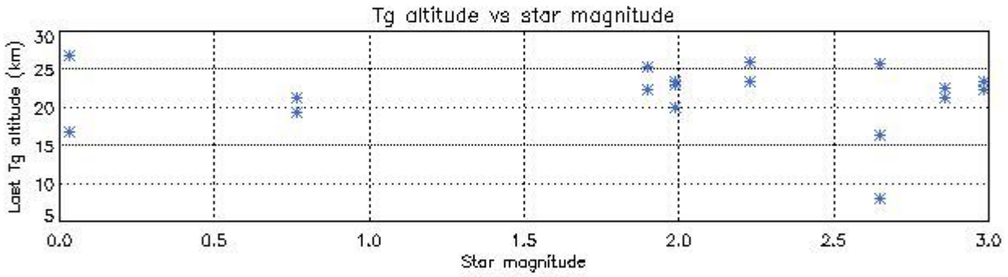


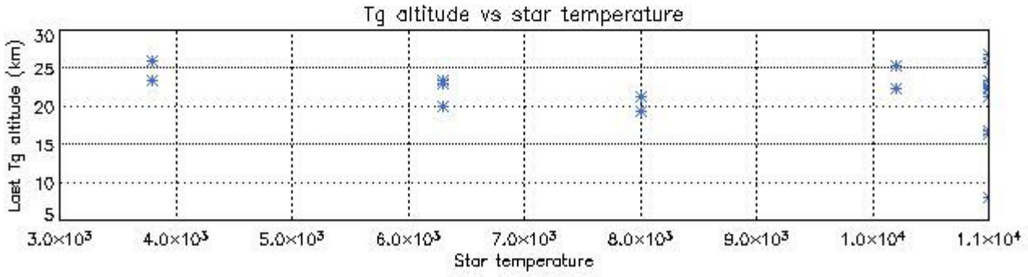


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





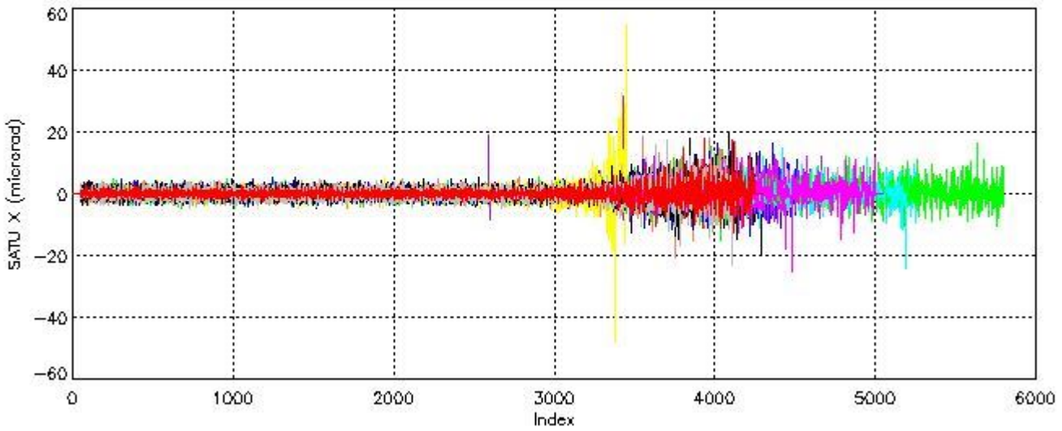


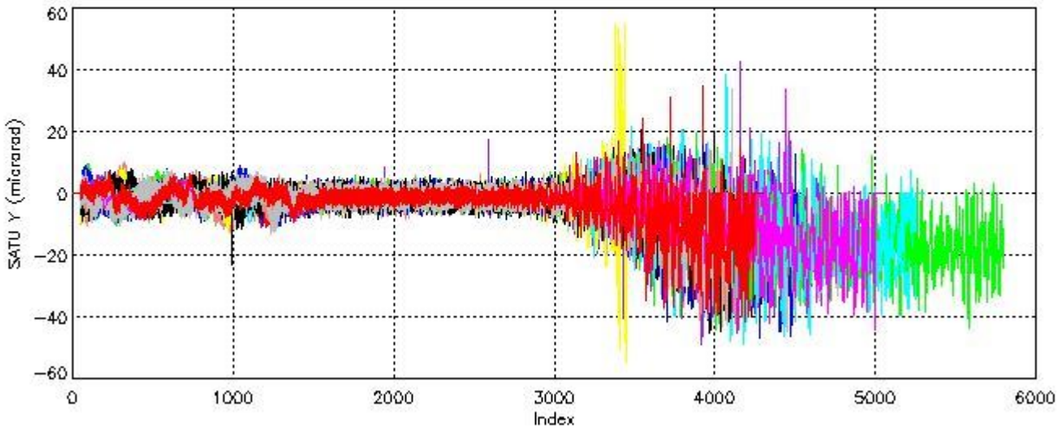
7. Star Acquisition and Tracking Unit (SATU)

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:	0.048227	-1.3064	0.013215	-1.0323
St. deviation:	0.63244	2.6494	0.79458	2.5477
Maximum:	6.1000	9.6000	5.6000	8.7000
Minimum:	-5.2000	-12.100	-5.7000	-11.800

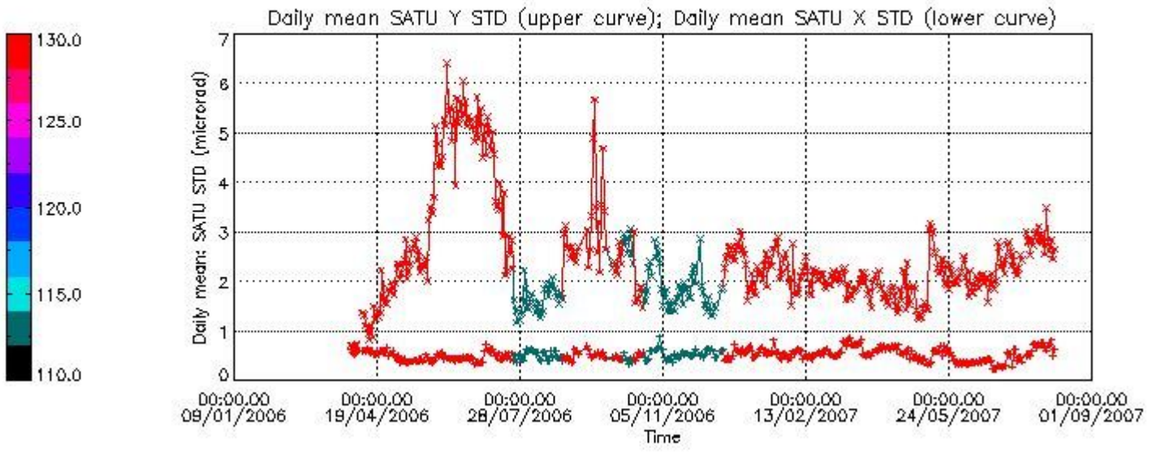
Number of data:	19250.	19250.	15550.	15550.

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

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

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

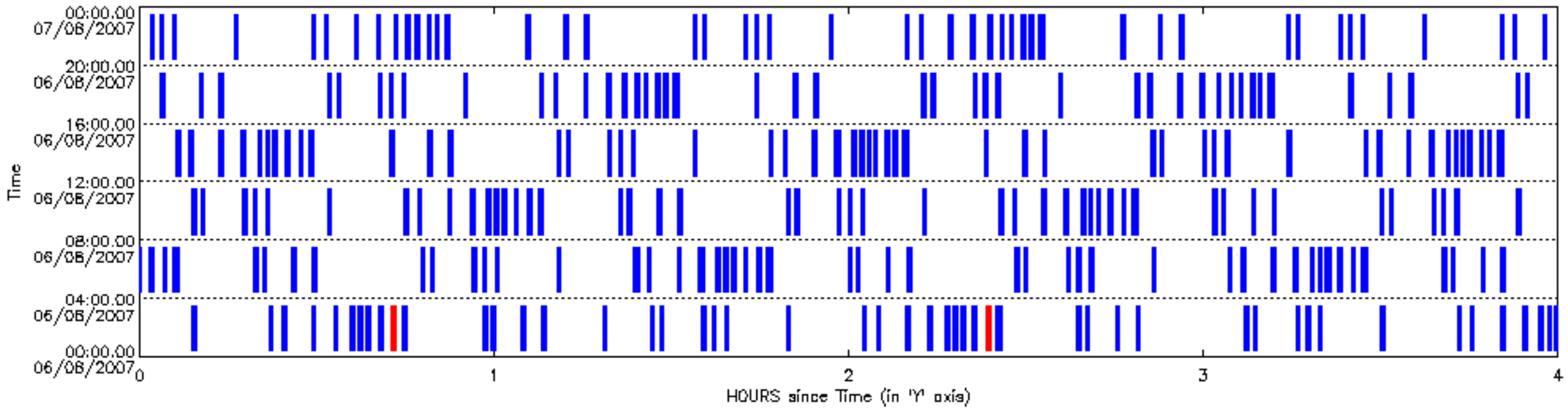
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

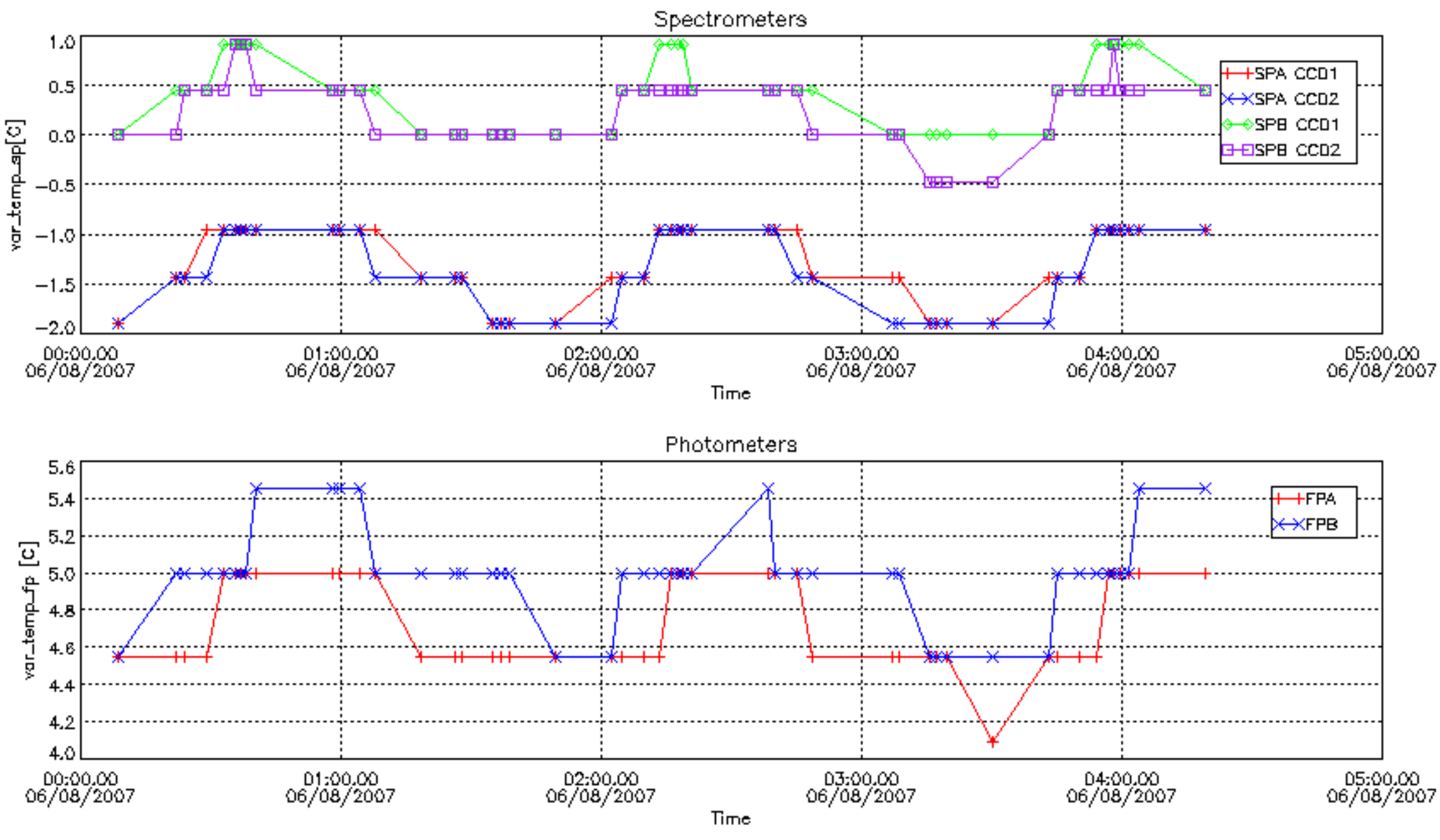


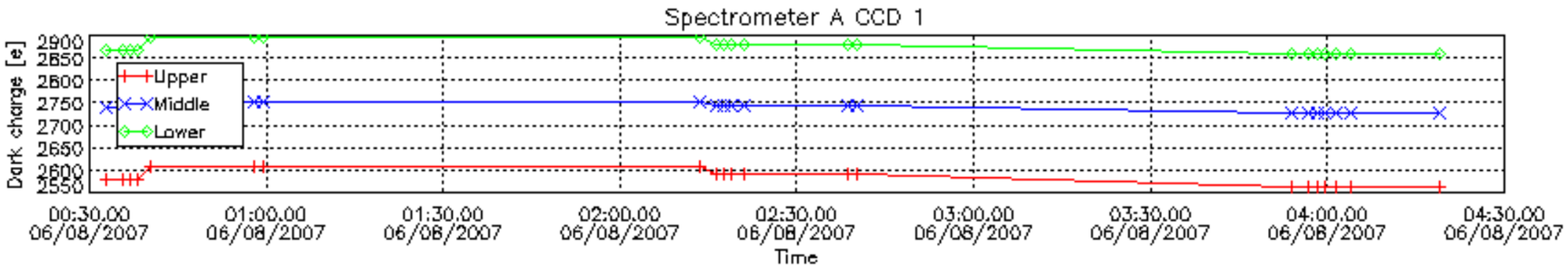
8. Auxiliary Data Files used for the production reported in section 2.4

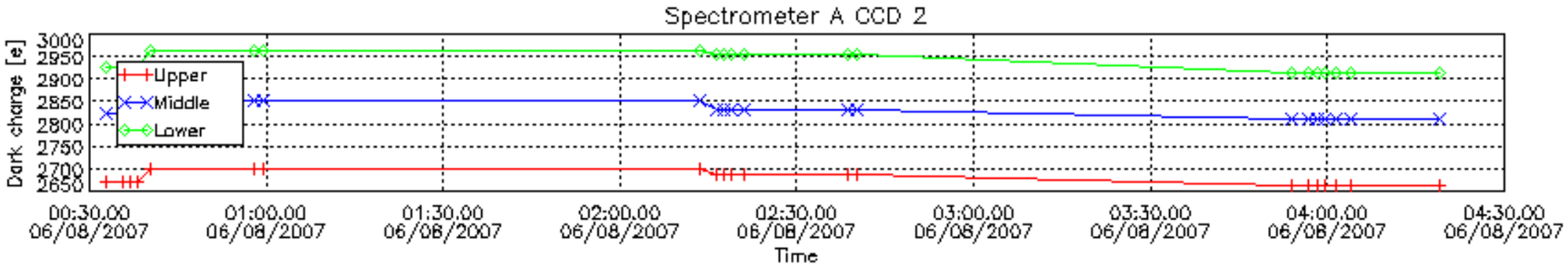
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

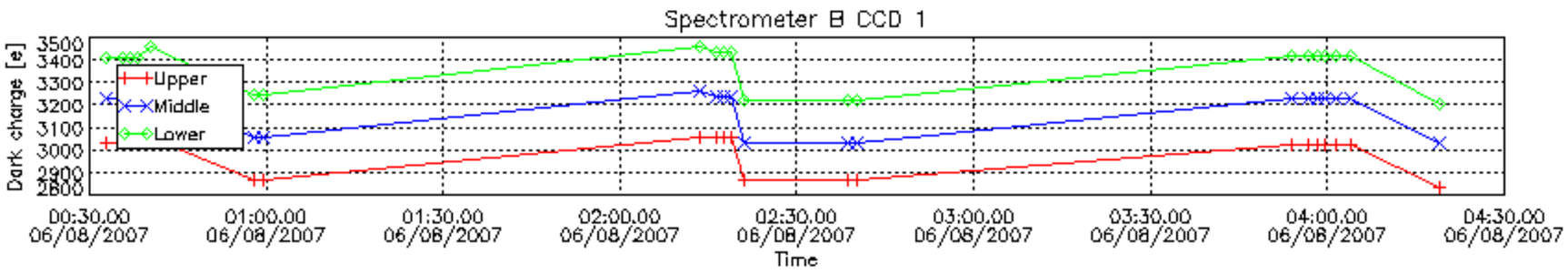
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-AUG-2007 00:08:49
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	06-AUG-2007 00:08:49
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-AUG-2007 00:08:49
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-AUG-2007 00:08:49
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-AUG-2007 00:08:49
ECMWF_FILE	AUX_ECF_AXNECM20070805_062113_20070805_210000_20070806_090000	1	06-AUG-2007 00:08:49
ECMWF_FILE	AUX_ECF_AXNECM20070805_182116_20070806_030000_20070806_150000	39	06-AUG-2007 03:42:57
OPTIONAL_ECMWF_FILE	MISSING	1	06-AUG-2007 00:08:49
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070805_211420_000057382060_00286_28396_3909.N1	1	06-AUG-2007 00:08:49
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070805_225517_000057382060_00287_28397_3910.N1	9	06-AUG-2007 00:40:19
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070806_003614_000054192060_00288_28398_3911.N1	25	06-AUG-2007 02:16:13
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20070806_021153_000044632060_00289_28399_3912.N1	39	06-AUG-2007 03:42:57

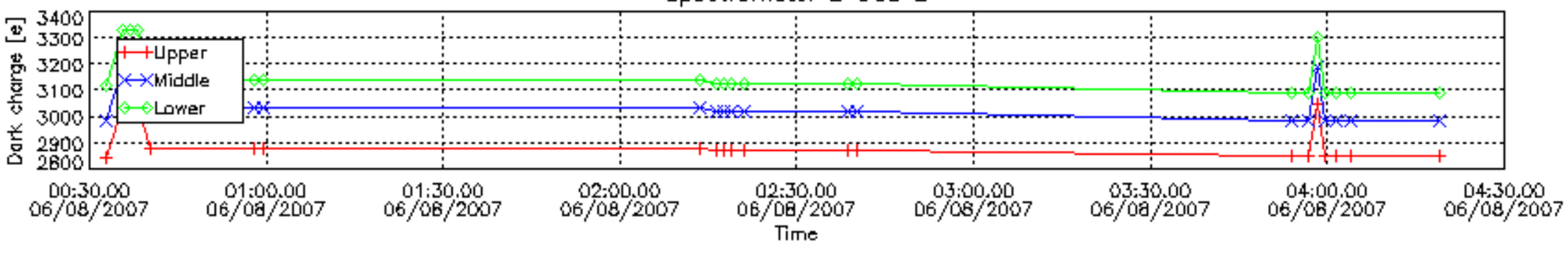

00:00.00
07/08/2007
20:00.00
06/08/2007
16:00.00
06/08/2007
12:00.00
06/08/2007
08:00.00
06/08/2007
04:00.00
06/08/2007
00:00.00
06/08/2007
Time
0
1
2
3
4
HOURS since Time (in 'Y' axis)

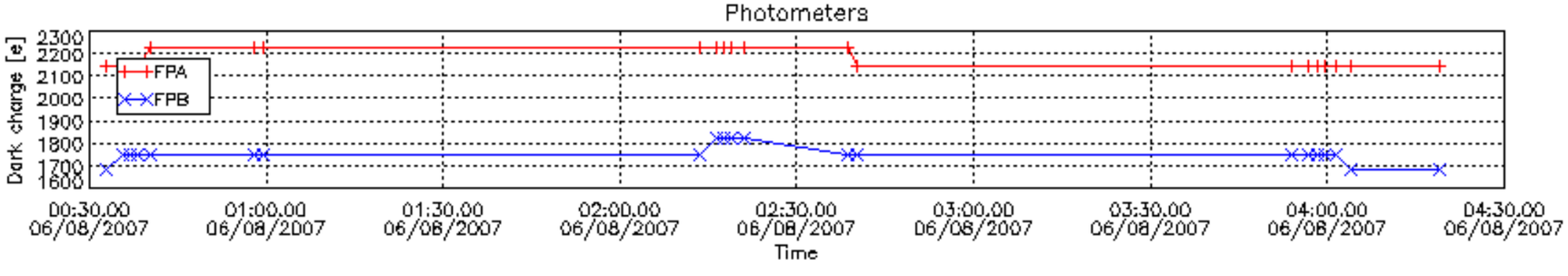

Spectrometers
var_temp_sp[C]
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
06/08/2007
01:00.00
06/08/2007
02:00.00
06/08/2007
03:00.00
06/08/2007
04:00.00
06/08/2007
05:00.00
06/08/2007
Time
Photometers
var_temp_fp [C]
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
FPA
FPB
00:00.00
06/08/2007
01:00.00
06/08/2007
02:00.00
06/08/2007
03:00.00
06/08/2007
04:00.00
06/08/2007
05:00.00
06/08/2007
Time

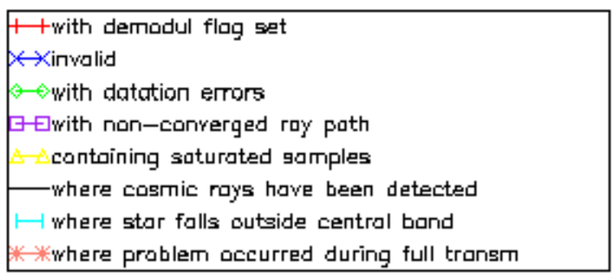

Spectrometer A CCD 1
Dark charge [e]
2900
2850
2800
2750
2700
2650
2600
2550
Upper
Middle
Lower
00:30.00 06/08/2007
01:00.00 06/08/2007
01:30.00 06/08/2007
02:00.00 06/08/2007
02:30.00 06/08/2007
03:00.00 06/08/2007
03:30.00 06/08/2007
04:00.00 06/08/2007
04:30.00 06/08/2007
Time


Spectrometer A CCD 2
Dark charge [e]
3000
2950
2900
2850
2800
2750
2700
2650
Upper
Middle
Lower
00:30.00 06/08/2007
01:00.00 06/08/2007
01:30.00 06/08/2007
02:00.00 06/08/2007
02:30.00 06/08/2007
03:00.00 06/08/2007
03:30.00 06/08/2007
04:00.00 06/08/2007
04:30.00 06/08/2007
Time

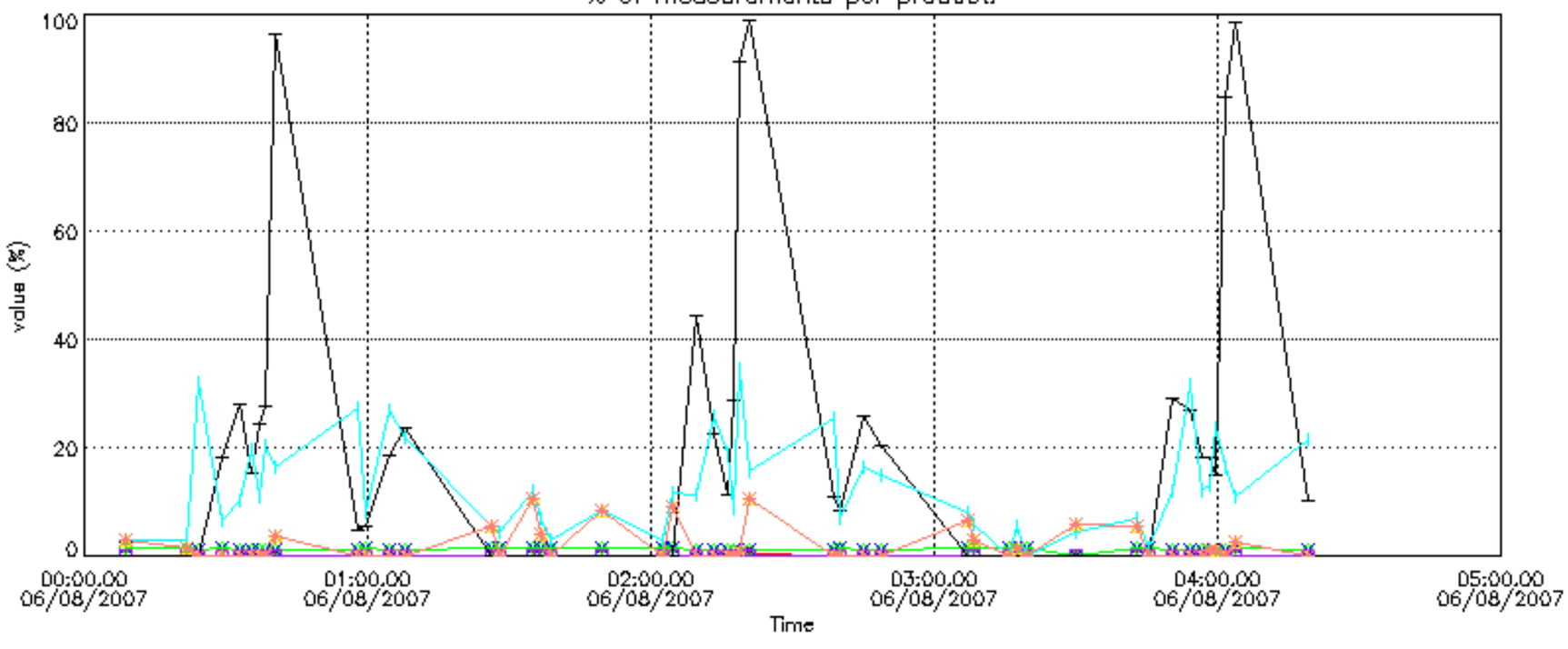

Spectrometer B CCD 1
Dark charge [e]
3500
3400
3300
3200
3100
3000
2900
2800
Upper
Middle
Lower
00:30.00 06/08/2007
01:00.00 06/08/2007
01:30.00 06/08/2007
02:00.00 06/08/2007
02:30.00 06/08/2007
03:00.00 06/08/2007
03:30.00 06/08/2007
04:00.00 06/08/2007
04:30.00 06/08/2007
Time

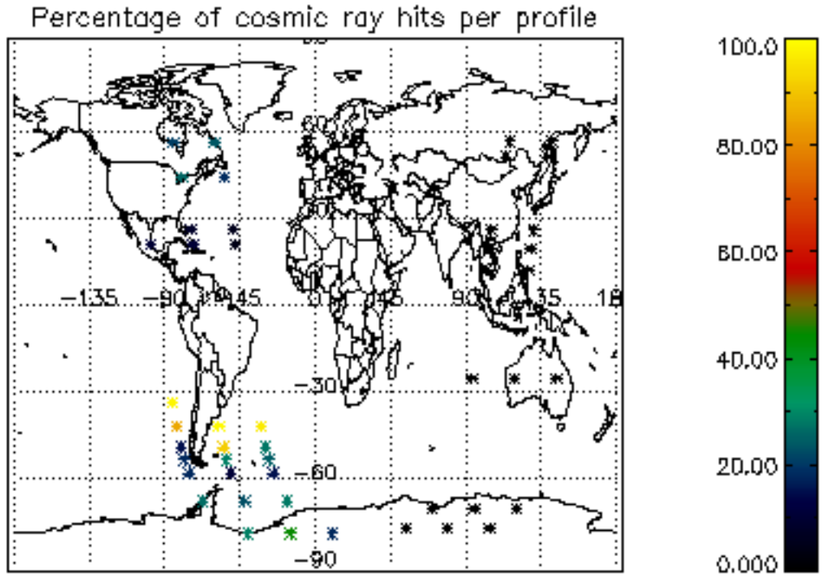

Spectrometer B CCD 2
Dark charge [e]
3400
3300
3200
3100
3000
2900
2800
Upper
Middle
Lower
00:30.00 06/08/2007
01:00.00 06/08/2007
01:30.00 06/08/2007
02:00.00 06/08/2007
02:30.00 06/08/2007
03:00.00 06/08/2007
03:30.00 06/08/2007
04:00.00 06/08/2007
04:30.00 06/08/2007
Time

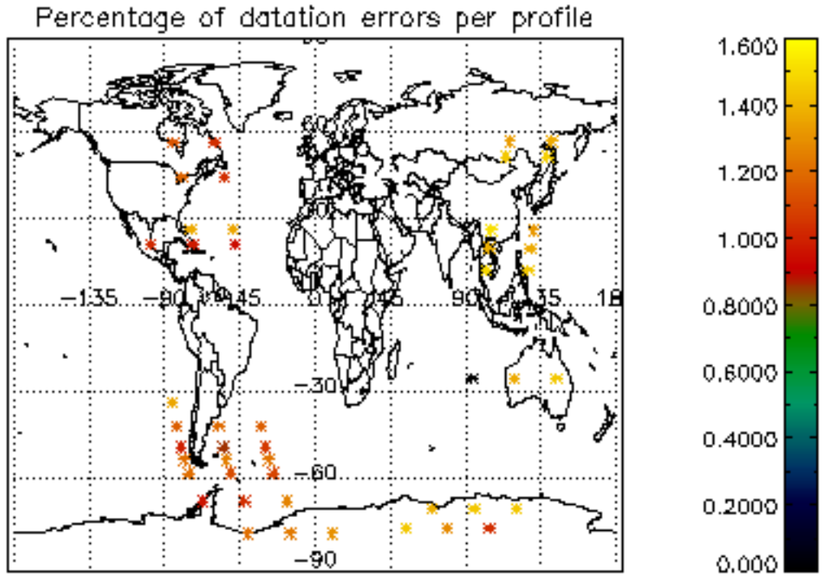

Photometers
Dark charge [e]
2300
2200
2100
2000
1900
1800
1700
1600
FPA
FPB
00:30.00 06/08/2007
01:00.00 06/08/2007
01:30.00 06/08/2007
02:00.00 06/08/2007
02:30.00 06/08/2007
03:00.00 06/08/2007
03:30.00 06/08/2007
04:00.00 06/08/2007
04:30.00 06/08/2007
Time

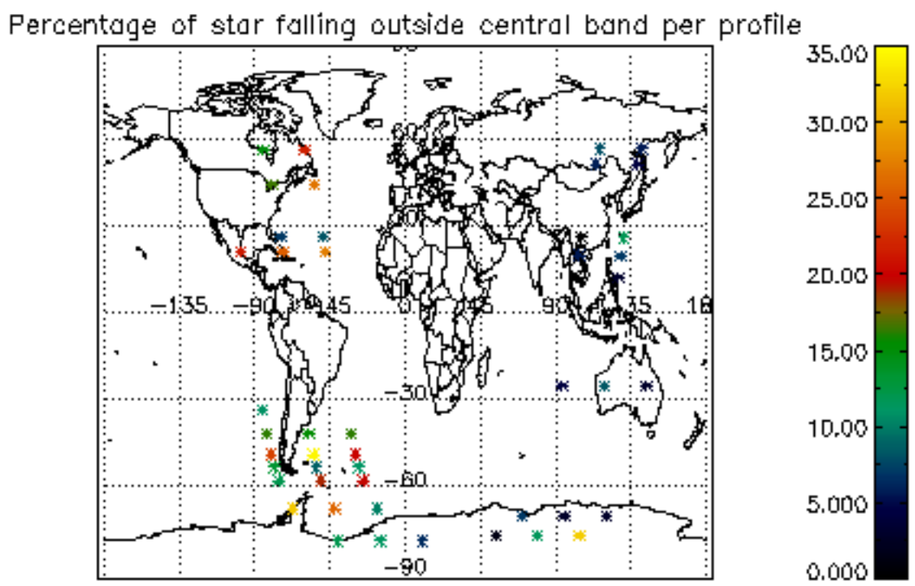


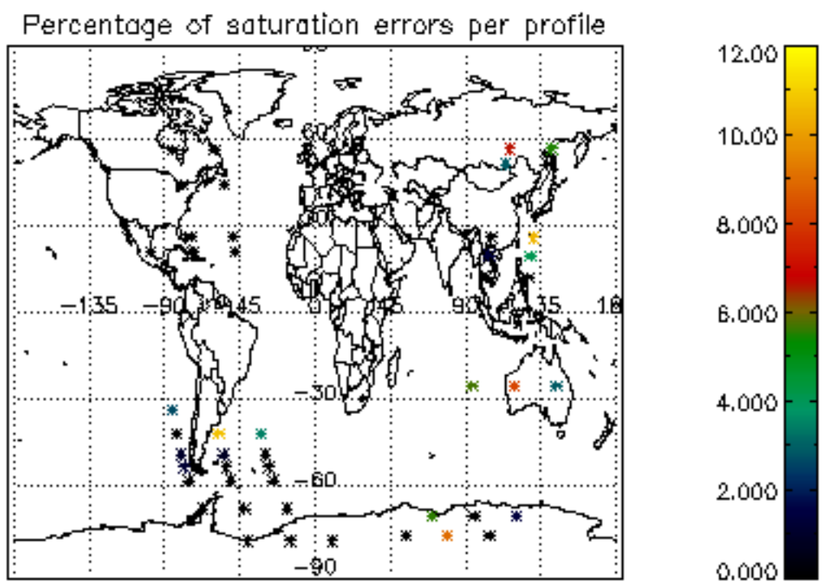
% of measurements per product:




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


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


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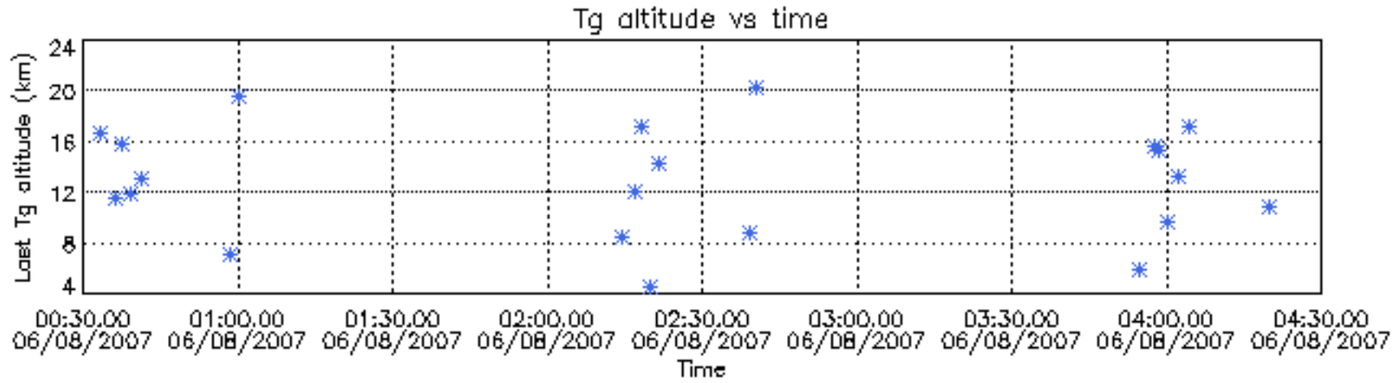
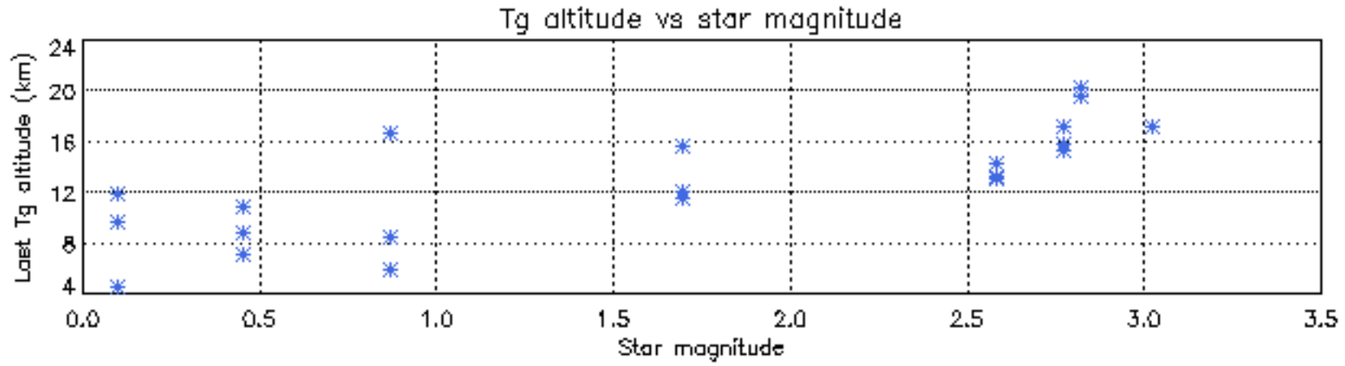
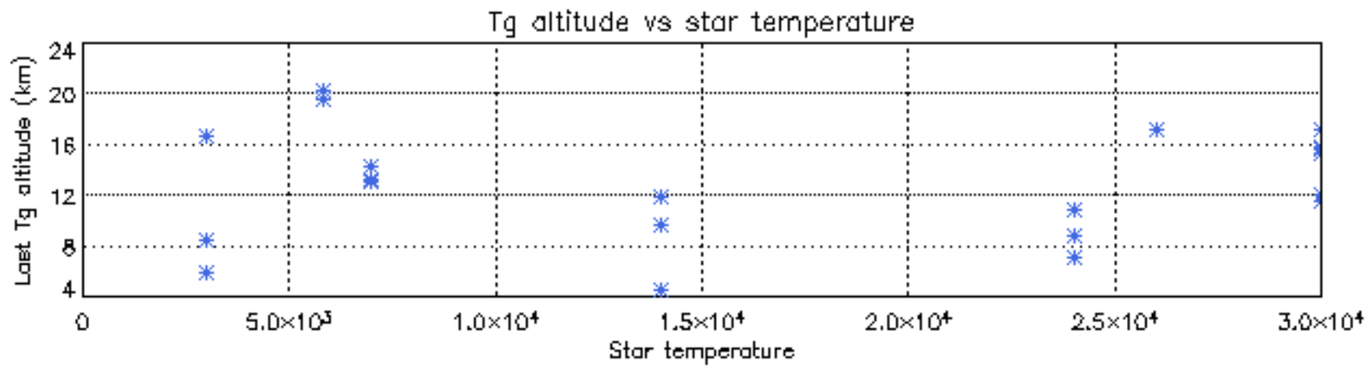
−60
−90

Tangent altitude at which the star is lost







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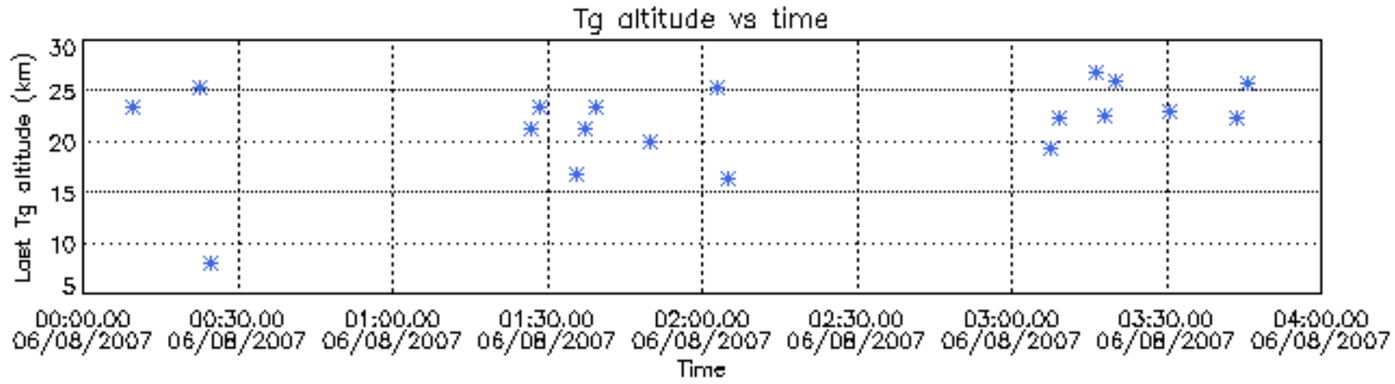

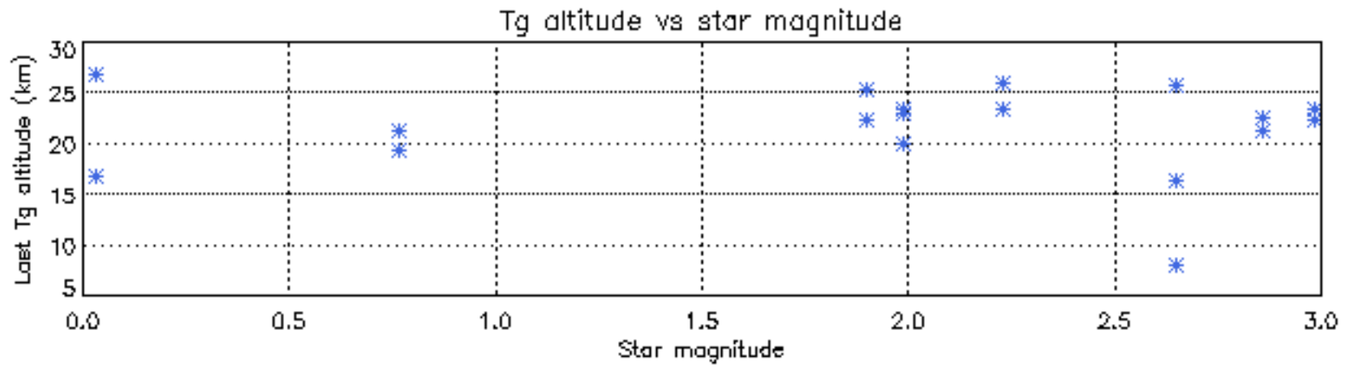

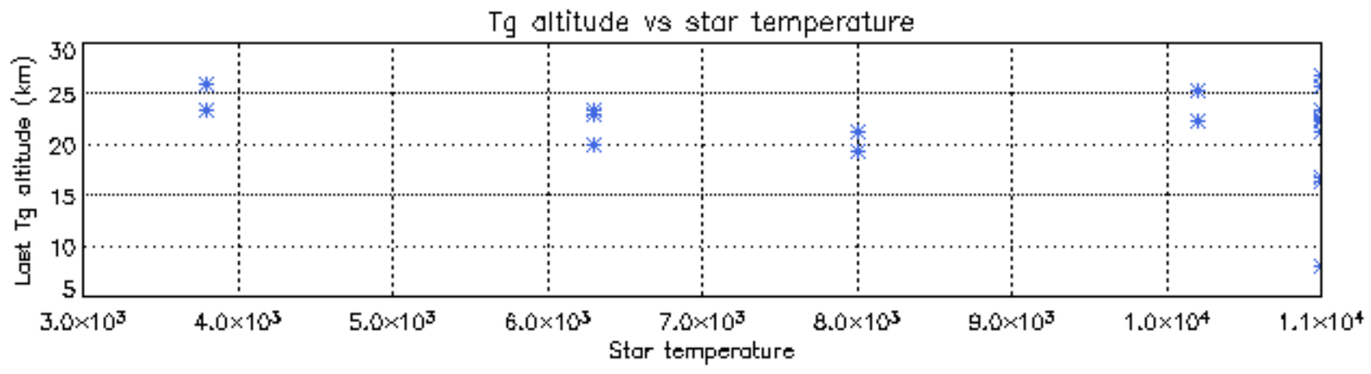

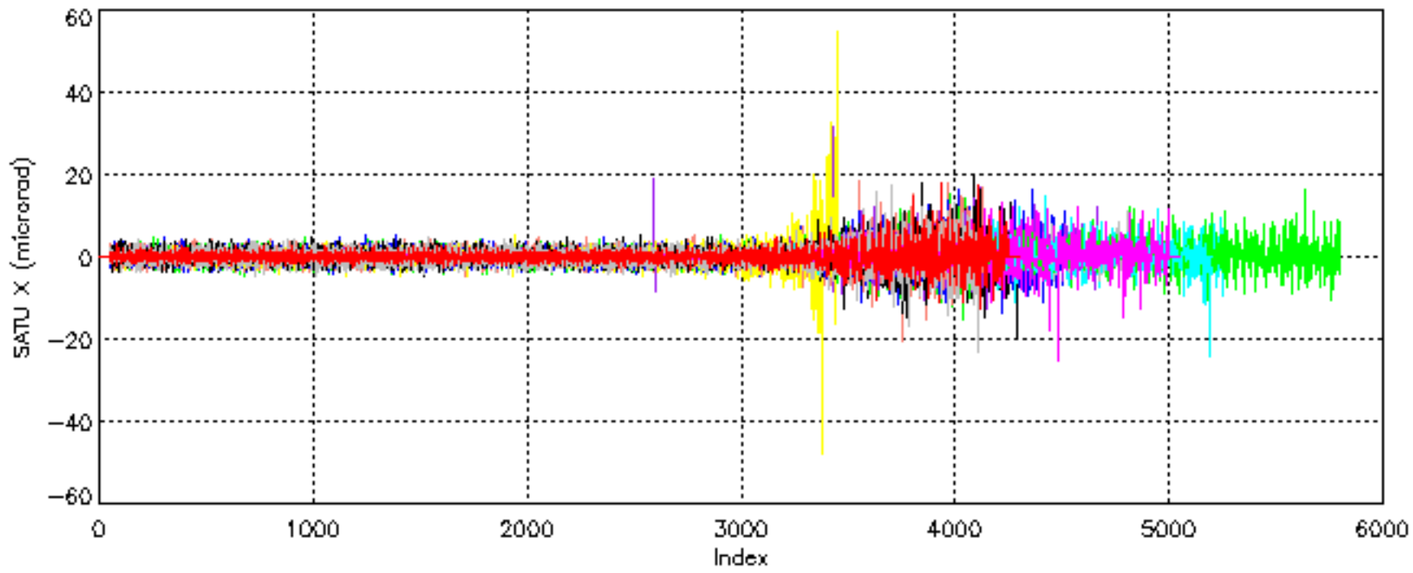
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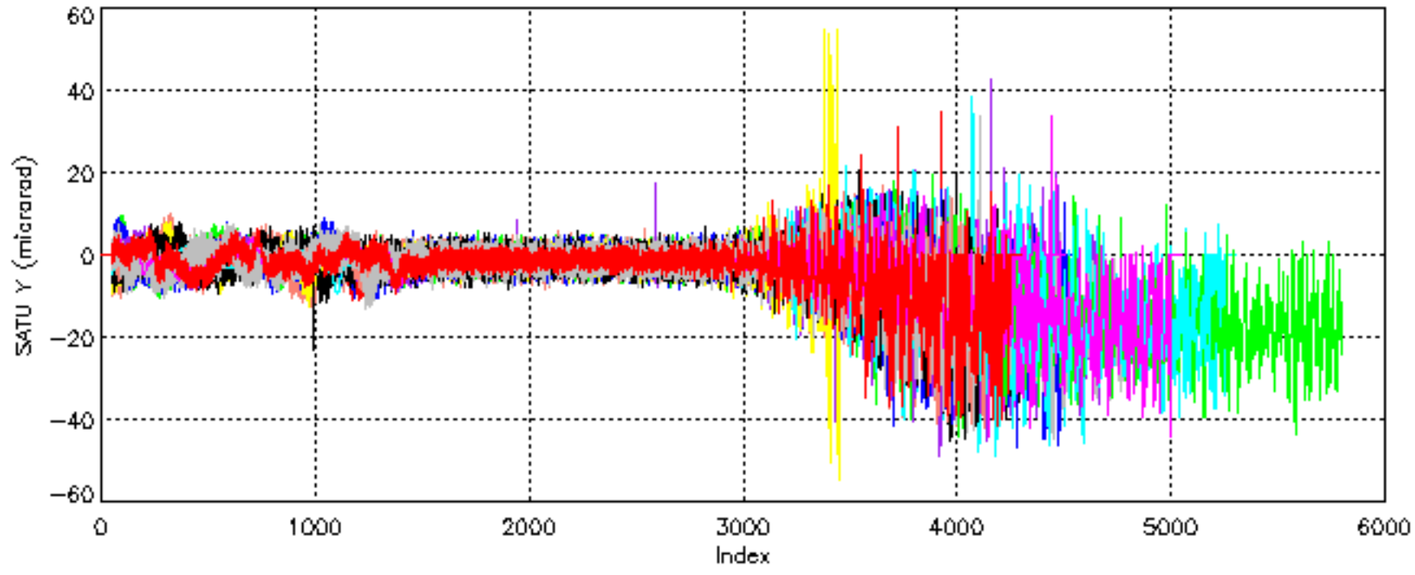
1000
2000
3000
4000
5000
6000
Index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1000
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3000
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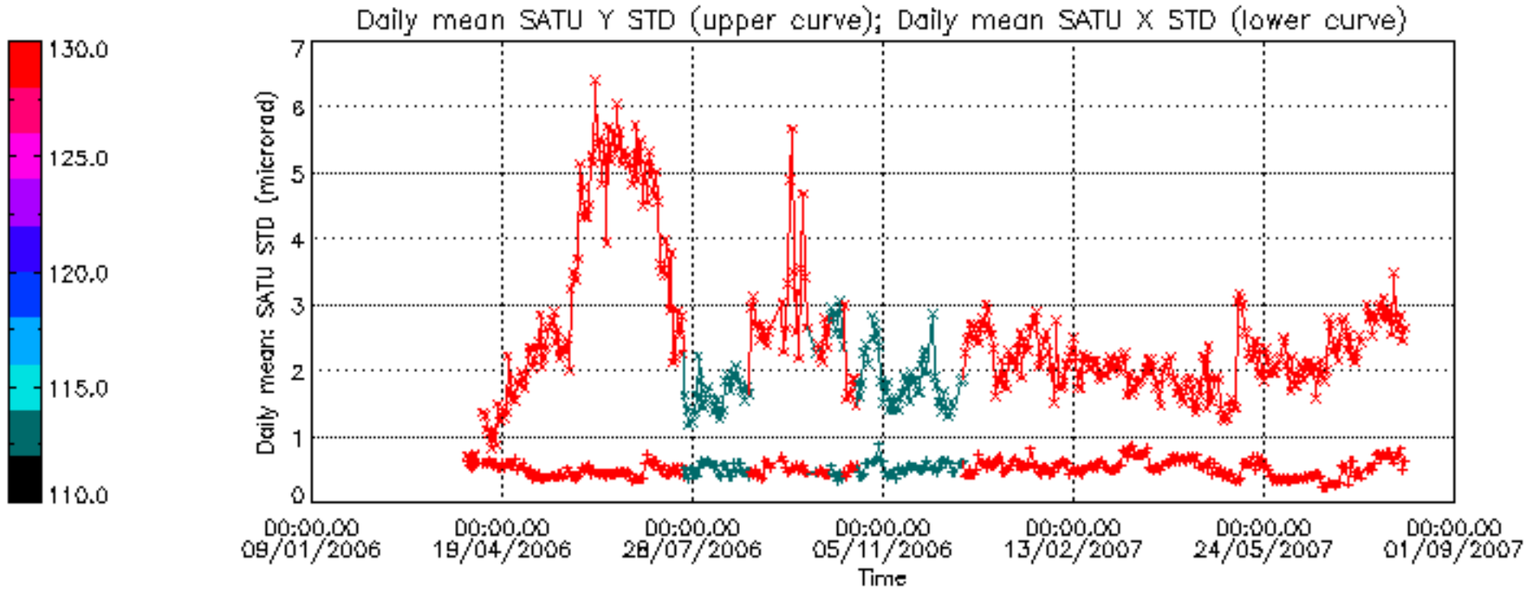
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125.0
120.0
115.0
110.0
Daily mean: SATU STD [microrad]
0
1
2
3
4
5
6
7
00:00.00 09/01/2006
00:00.00 19/04/2006
00:00.00 28/07/2006
00:00.00 05/11/2006
00:00.00 13/02/2007
00:00.00 24/05/2007
00:00.00 01/09/2007
Time

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  18; 6633.4; 31-AUG-2007 16:21:46; Dark  ;  44.0;    9;   Alp Eri  ; 0.45; 24000;occ;  88;   0;28765
  19; 6991.2; 31-AUG-2007 16:27:44; Dark  ;  54.5;   84;   Alp Phe  ; 2.40;  4500;occ; 109;   0;28765
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   2; 1618.1; 31-AUG-2007 16:38:47; Dark  ;  53.0;  142; 49Del Cap  ; 2.85;  8900;occ; 106;   0;28766
   3; 1806.7; 31-AUG-2007 16:41:55; Bright;  37.5;  154; 22Bet Aqr  ; 2.90;  5700;occ;  75;   0;28766
   4; 1896.0; 31-AUG-2007 16:43:25; Bright;  40.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  80;   0;28766
   5; 2076.2; 31-AUG-2007 16:46:25; Bright;  38.0;   61;  8Eps Peg  ; 2.10;  3900;occ;  76;   0;28766
   6; 2487.1; 31-AUG-2007 16:53:16; Bright;  37.5;   92; 53Eps Cyg  ; 2.50;  4500;occ;  75;   0;28766
   7; 2677.9; 31-AUG-2007 16:56:27; Bright;  37.0;   19; 50Alp Cyg  ; 1.25; 10500;occ;  74;   0;28766
   8; 2976.9; 31-AUG-2007 17:01:26; Bright;  37.5;   89;  5Alp Cep  ; 2.45;  8000;occ;  75;   0;28766
   9; 3434.9; 31-AUG-2007 17:09:04; Bright;  37.0;   49;  1Alp UMi  ; 1.99;  6300;occ;  74;   0;28766
  10; 4451.1; 31-AUG-2007 17:26:00; Bright;  38.0;   24; 66Alp Gem  ; 1.58; 10200;occ;  76;   0;28766
  11; 4609.6; 31-AUG-2007 17:28:38; Dark  ;  48.5;  170; 27Eps Gem  ; 3.00;  9700;occ;  97;   0;28766
  12; 4788.3; 31-AUG-2007 17:31:37; Dark  ;  52.5;   44; 24Gam Gem  ; 1.93; 11000;occ; 105;   0;28766
  13; 4911.4; 31-AUG-2007 17:33:40; Dark  ;  48.5;    8; 10Alp CMi  ; 0.40;  6500;occ;  97;   0;28766
  14; 5367.8; 31-AUG-2007 17:41:16; Dark  ;  58.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 116;   0;28766
  15; 5534.5; 31-AUG-2007 17:44:03; Dark  ;  44.0;   23; 21Eps CMa  ; 1.50; 26000;occ;  88;   0;28766
  16; 5633.3; 31-AUG-2007 17:45:42; Dark  ;  41.5;  177;  1Zet CMa  ; 3.02; 26000;occ;  83;   0;28766
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  20; 6991.8; 31-AUG-2007 18:08:20; Dark  ;  46.0;   84;   Alp Phe  ; 2.40;  4500;occ;  92;   0;28766
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   4; 1618.2; 31-AUG-2007 18:19:23; Dark  ;  52.5;  142; 49Del Cap  ; 2.85;  8900;occ; 105;   0;28767
   5; 1806.7; 31-AUG-2007 18:22:31; Bright;  38.0;  154; 22Bet Aqr  ; 2.90;  5700;occ;  76;   0;28767
   6; 1896.0; 31-AUG-2007 18:24:01; Bright;  40.0;  162; 34Alp Aqr  ; 2.94;  5350;occ;  80;   0;28767
   7; 2076.0; 31-AUG-2007 18:27:01; Bright;  38.5;   61;  8Eps Peg  ; 2.10;  3900;occ;  77;   0;28767
   8; 2487.1; 31-AUG-2007 18:33:52; Bright;  36.5;   92; 53Eps Cyg  ; 2.50;  4500;occ;  73;   0;28767
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