

GOMOS Daily Report 23-JAN-2007

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	25JAN2007 05:32:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (23JAN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

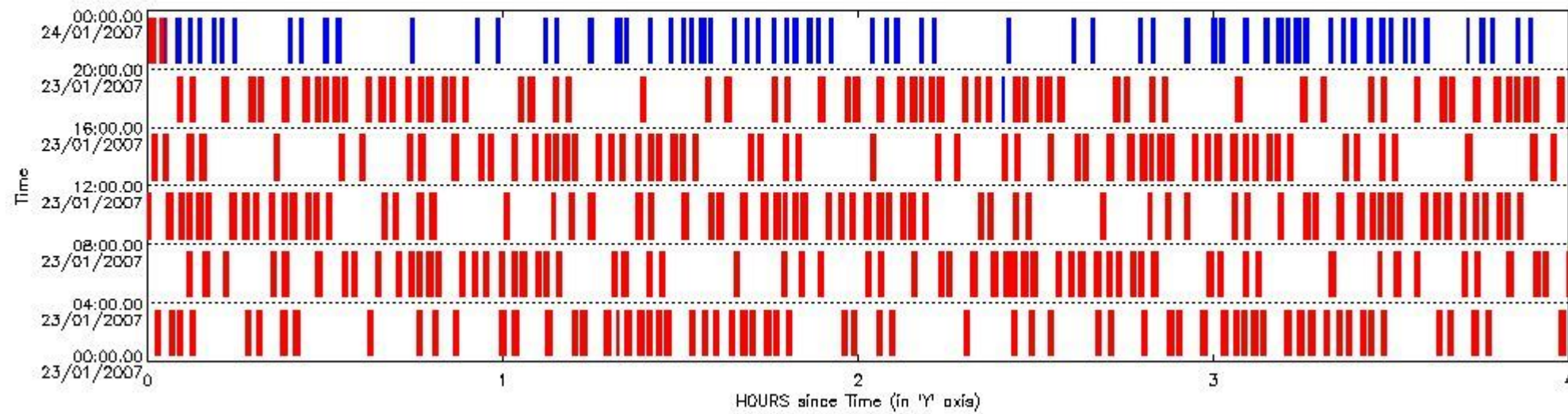
2.1 Level 0 products arrived in PCF (see template [here](#))

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
23-JAN-2007 00:01:06	PiPup	117	25607
23-JAN-2007 00:03:35	21EpsCMa	23	25607
23-JAN-2007 00:04:58	24Omi2CMa	179	25607
23-JAN-2007 00:07:09	9AlpCMa	1	25607
23-JAN-2007 00:16:32	24GamGem	44	25607
23-JAN-2007 00:18:17	13MuGem	151	25607
23-JAN-2007 00:22:30	37TheAur	107	25607
23-JAN-2007 00:24:39	34BetAur	42	25607
23-JAN-2007 00:37:11	1AlpUMi	49	25607
23-JAN-2007 00:45:19	14EtaDra	119	25607
23-JAN-2007 00:48:09	23BetDra	130	25607
23-JAN-2007 00:51:29	3AlpLyr	5	25607
23-JAN-2007 00:59:28	55AlpOph	59	25607
23-JAN-2007 01:01:35	60BetOph	126	25607
23-JAN-2007 01:07:08	13ZetOph	98	25607

23-JAN-2007 01:11:38	21AlpSco	16	25607
23-JAN-2007 01:13:07	26EpsSco	75	25607
23-JAN-2007 01:17:09	GamLup	131	25607
23-JAN-2007 01:19:07	BetLup	109	25607
23-JAN-2007 01:20:36	AlpLup	78	25607
23-JAN-2007 01:22:47	Alp1Cen	4	25608
23-JAN-2007 01:24:10	EpsCen	77	25608
23-JAN-2007 01:25:48	DSA1028	0	25608
23-JAN-2007 01:27:19	Alp1Cru	12	25608
23-JAN-2007 01:31:29	BetCar	29	25608
23-JAN-2007 01:33:37	lotCar	71	25608
23-JAN-2007 01:35:26	DeIVel	46	25608
23-JAN-2007 01:38:04	Gam2Vel	34	25608
23-JAN-2007 01:40:11	ZetPup	70	25608
23-JAN-2007 01:41:42	PiPup	117	25608
23-JAN-2007 01:44:11	21EpsCMa	23	25608
23-JAN-2007 01:45:35	24Omi2CMa	179	25608
23-JAN-2007 01:47:45	9AlpCMa	1	25608
23-JAN-2007 01:57:08	24GamGem	44	25608
23-JAN-2007 01:58:53	13MuGem	151	25608
23-JAN-2007 02:03:06	37TheAur	107	25608
23-JAN-2007 02:05:15	34BetAur	42	25608
23-JAN-2007 02:17:47	1AlpUMi	49	25608
23-JAN-2007 02:25:55	14EtaDra	119	25608
23-JAN-2007 02:28:45	23BetDra	130	25608
23-JAN-2007 02:32:05	3AlpLyr	5	25608
23-JAN-2007 02:40:04	55AlpOph	59	25608
23-JAN-2007 02:42:11	60BetOph	126	25608
23-JAN-2007 02:47:45	13ZetOph	98	25608
23-JAN-2007 02:52:14	21AlpSco	16	25608
23-JAN-2007 02:53:44	26EpsSco	75	25608
23-JAN-2007 02:57:45	GamLup	131	25608
23-JAN-2007 03:01:13	AlpLup	78	25608
23-JAN-2007 03:03:23	Alp1Cen	4	25609
23-JAN-2007 03:04:47	EpsCen	77	25609
23-JAN-2007 03:06:24	DSA1028	0	25609
23-JAN-2007 03:07:55	Alp1Cru	12	25609
23-JAN-2007 03:12:05	BetCar	29	25609
23-JAN-2007 03:14:13	lotCar	71	25609
23-JAN-2007 03:16:03	DeIVel	46	25609
23-JAN-2007 03:18:40	Gam2Vel	34	25609
23-JAN-2007 03:20:47	ZetPup	70	25609
23-JAN-2007 03:22:18	PiPup	117	25609
23-JAN-2007 03:24:47	21EpsCMa	23	25609
23-JAN-2007 03:26:11	24Omi2CMa	179	25609
23-JAN-2007 03:28:21	9AlpCMa	1	25609
23-JAN-2007 03:37:44	24GamGem	44	25609
23-JAN-2007 03:39:29	13MuGem	151	25609
23-JAN-2007 03:43:42	37TheAur	107	25609
23-JAN-2007 03:45:51	34BetAur	42	25609
23-JAN-2007 03:58:23	1AlpUMi	49	25609
23-JAN-2007 04:06:31	14EtaDra	119	25609
23-JAN-2007 04:09:21	23BetDra	130	25609
23-JAN-2007 04:12:41	3AlpLyr	5	25609
23-JAN-2007 04:20:40	55AlpOph	59	25609
23-JAN-2007 04:22:47	60BetOph	126	25609
23-JAN-2007 04:28:21	13ZetOph	98	25609
23-JAN-2007 04:32:51	21AlpSco	16	25609
23-JAN-2007 04:34:20	26EpsSco	75	25609

23-JAN-2007 04:38:22	GamLup	131	25609
23-JAN-2007 04:41:50	AlpLup	78	25609
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23-JAN-2007 04:45:23	EpsCen	77	25610
23-JAN-2007 04:47:00	DSA1028	0	25610
23-JAN-2007 04:48:32	Alp1Cru	12	25610
23-JAN-2007 04:52:41	BetCar	29	25610
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23-JAN-2007 04:59:17	Gam2Vel	34	25610
23-JAN-2007 05:01:23	ZetPup	70	25610
23-JAN-2007 05:02:55	PiPup	117	25610
23-JAN-2007 05:05:23	21EpsCMa	23	25610
23-JAN-2007 05:06:47	24Omi2CMa	179	25610
23-JAN-2007 05:08:57	9AlpCMa	1	25610
23-JAN-2007 05:18:20	24GamGem	44	25610
23-JAN-2007 05:20:05	13MuGem	151	25610
23-JAN-2007 05:24:18	37TheAur	107	25610
23-JAN-2007 05:26:27	34BetAur	42	25610
23-JAN-2007 05:38:59	1AlpUMi	49	25610
23-JAN-2007 05:47:07	14EtaDra	119	25610
23-JAN-2007 05:49:57	23BetDra	130	25610
23-JAN-2007 05:53:17	3AlpLyr	5	25610
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23-JAN-2007 10:26:06	37TheAur	107	25613
23-JAN-2007 10:28:15	34BetAur	42	25613
23-JAN-2007 10:40:46	1AlpUMi	49	25613
23-JAN-2007 10:48:54	14EtaDra	119	25613
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23-JAN-2007 11:49:11	24Omi2CMa	179	25614
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23-JAN-2007 12:43:41	55AlpOph	59	25614
23-JAN-2007 12:45:48	60BetOph	126	25614
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23-JAN-2007 13:43:05	13MuGem	151	25615
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23-JAN-2007 14:16:18	3AlpLyr	5	25615
23-JAN-2007 14:24:17	55AlpOph	59	25615
23-JAN-2007 14:26:24	60BetOph	126	25615
23-JAN-2007 14:31:59	13ZetOph	98	25615
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23-JAN-2007 14:37:58	26EpsSco	75	25615
23-JAN-2007 14:42:01	GamLup	131	25615
23-JAN-2007 14:45:30	AlpLup	78	25616
23-JAN-2007 14:47:38	Alp1Cen	4	25616
23-JAN-2007 14:49:03	EpsCen	77	25616
23-JAN-2007 14:50:38	DSA1028	0	25616
23-JAN-2007 14:52:11	Alp1Cru	12	25616
23-JAN-2007 14:56:18	BetCar	29	25616
23-JAN-2007 14:58:28	lotCar	71	25616
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23-JAN-2007 15:53:33	23BetDra	130	25616
23-JAN-2007 15:56:54	3AlpLyr	5	25616
23-JAN-2007 16:04:54	55AlpOph	59	25616
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23-JAN-2007 18:26:13	ZetPup	70	25618
23-JAN-2007 18:27:44	PiPup	117	25618
23-JAN-2007 18:30:12	21EpsCMa	23	25618
23-JAN-2007 18:31:36	24Omi2CMa	179	25618
23-JAN-2007 18:33:46	9AlpCMa	1	25618
23-JAN-2007 18:43:07	24GamGem	44	25618
23-JAN-2007 18:44:53	13MuGem	151	25618

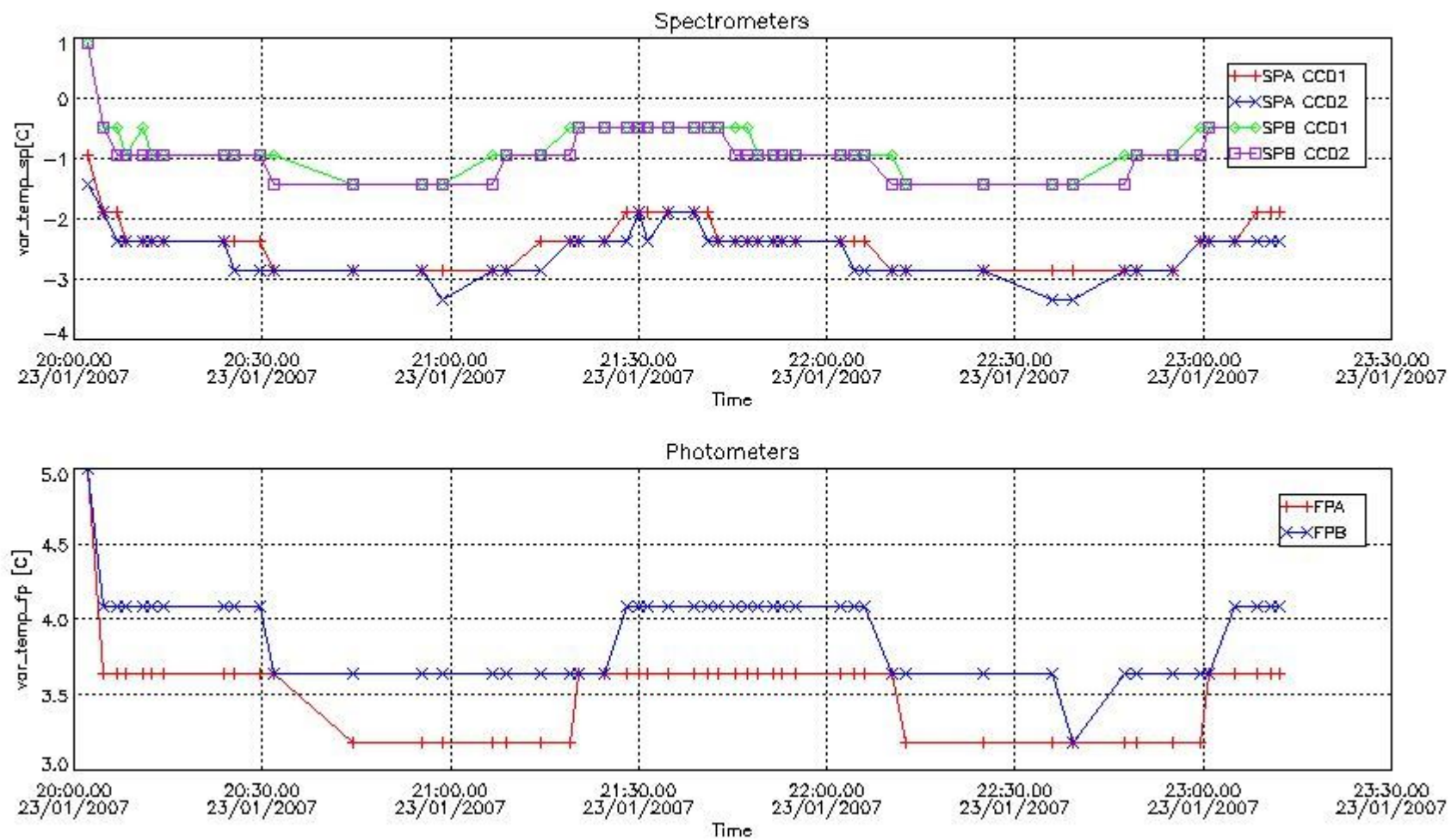
23-JAN-2007 18:49:06	37TheAur	107	25618
23-JAN-2007 18:51:15	34BetAur	42	25618
23-JAN-2007 19:03:46	1AlpUMi	49	25618
23-JAN-2007 19:14:45	23BetDra	130	25618
23-JAN-2007 19:18:06	3AlpLyr	5	25618
23-JAN-2007 19:26:06	55AlpOph	59	25618
23-JAN-2007 19:28:12	60BetOph	126	25618
23-JAN-2007 19:33:49	13ZetOph	98	25618
23-JAN-2007 19:38:19	21AlpSco	16	25618
23-JAN-2007 19:39:47	26EpsSco	75	25618
23-JAN-2007 19:43:51	GamLup	131	25618
23-JAN-2007 19:47:20	AlpLup	78	25619
23-JAN-2007 19:49:27	Alp1Cen	4	25619
23-JAN-2007 19:50:54	EpsCen	77	25619
23-JAN-2007 19:52:26	DSA1028	0	25619
23-JAN-2007 19:54:00	Alp1Cru	12	25619
23-JAN-2007 19:58:07	BetCar	29	25619
23-JAN-2007 20:00:17	lotCar	71	25619
23-JAN-2007 20:02:05	DelVel	46	25619

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_1PNPDE20070123_200208_000000402055_00014_25619_1135.N1	23-JAN-2007 20:02:08	Dark	39.500	46	Del Vel	1.9540	10600.	79	25619	Yes
2	GOM_TRA_1PNPDE20070123_200445_000000412055_00014_25619_1136.N1	23-JAN-2007 20:04:45	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	25619	No
3	GOM_TRA_1PNPDE20070123_200651_000000392055_00014_25619_1137.N1	23-JAN-2007 20:06:51	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25619	No
4	GOM_TRA_1PNPDE20070123_200822_000000412055_00014_25619_1138.N1	23-JAN-2007 20:08:22	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25619	No
5	GOM_TRA_1PNPDE20070123_201050_000000422055_00014_25619_1139.N1	23-JAN-2007 20:10:50	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	25619	No
6	GOM_TRA_1PNPDE20070123_201214_000000382055_00014_25619_1140.N1	23-JAN-2007 20:12:14	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25619	No
7	GOM_TRA_1PNPDE20070123_201424_000000362055_00014_25619_1141.N1	23-JAN-2007 20:14:24	Straylight	36.000	1	9Alp CMa	-1.4400	11000.	72	25619	No
8	GOM_TRA_1PNPDE20070123_202345_000000392055_00014_25619_1142.N1	23-JAN-2007 20:23:45	Bright	38.500	44	24Gam Gem	1.9280	11000.	77	25619	No
9	GOM_TRA_1PNPDE20070123_202532_000000402055_00014_25619_1143.N1	23-JAN-2007 20:25:32	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	25619	No
10	GOM_TRA_1PNPDE20070123_202945_000000352055_00014_25619_1144.N1	23-JAN-2007 20:29:45	Bright	34.500	107	37The Aur	2.6490	11000.	69	25619	No
11	GOM_TRA_1PNPDE20070123_203153_000000352055_00014_25619_1145.N1	23-JAN-2007 20:31:53	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25619	No
12	GOM_TRA_1PNPDE20070123_204424_000000342055_00014_25619_1146.N1	23-JAN-2007 20:44:24	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25619	No
13	GOM_TRA_1PNPDE20070123_205523_000000362055_00014_25619_1147.N1	23-JAN-2007 20:55:23	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	25619	No
14	GOM_TRA_1PNPDE20070123_205844_000000362055_00014_25619_1148.N1	23-JAN-2007 20:58:44	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	25619	No
15	GOM_TRA_1PNPDE20070123_210644_000000342055_00014_25619_1149.N1	23-JAN-2007 21:06:44	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25619	No
16	GOM_TRA_1PNPDE20070123_210851_000000332055_00014_25619_1150.N1	23-JAN-2007 21:08:51	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	25619	No
17	GOM_TRA_1PNPDE20070123_211427_000000442055_00014_25619_1151.N1	23-JAN-2007 21:14:27	Bright	43.500	98	13Zet Oph	2.5710	30000.	87	25619	No
18	GOM_TRA_1PNPDE20070123_211857_000000562055_00014_25619_1281.N1	23-JAN-2007 21:18:57	Twilight	56.000	16	21Alp Sco	1.0200	3000.0	112	25619	No
19	GOM_TRA_1PNPDE20070123_212025_000000402055_00014_25619_1282.N1	23-JAN-2007 21:20:25	Dark	39.500	75	26Eps Sco	2.2910	4250.0	79	25619	No
20	GOM_TRA_1PNPDE20070123_212430_000000392055_00014_25619_1283.N1	23-JAN-2007 21:24:30	Dark	39.000	131	Gam Lup	2.8000	26000.	78	25619	No
21	GOM_TRA_1PNPDE20070123_212758_000000412055_00015_25620_1284.N1	23-JAN-2007 21:27:58	Dark	41.000	78	Alp Lup	2.3040	28000.	82	25620	No
22	GOM_TRA_1PNPDE20070123_213006_000000442055_00015_25620_1285.N1	23-JAN-2007 21:30:06	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	25620	No
23	GOM_TRA_1PNPDE20070123_213132_000000352055_00015_25620_1286.N1	23-JAN-2007 21:31:32	Dark	35.000	77	Eps Cen	2.3030	28000.	70	25620	No
24	GOM_TRA_1PNPDE20070123_213439_000000402055_00015_25620_1287.N1	23-JAN-2007 21:34:39	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	25620	No
25	GOM_TRA_1PNPDE20070123_213845_000000362055_00015_25620_1288.N1	23-JAN-2007 21:38:45	Dark	36.000	29	Bet Car	1.6720	10200.	72	25620	No
26	GOM_TRA_1PNPDE20070123_214055_000000392055_00015_25620_1289.N1	23-JAN-2007 21:40:55	Dark	38.500	71	lot Car	2.2460	7700.0	77	25620	No
27	GOM_TRA_1PNPDE20070123_214244_000000422055_00015_25620_1290.N1	23-JAN-2007 21:42:44	Dark	41.500	46	Del Vel	1.9540	10600.	83	25620	No
28	GOM_TRA_1PNPDE20070123_214521_000000422055_00015_25620_1291.N1	23-JAN-2007 21:45:21	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	25620	No
29	GOM_TRA_1PNPDE20070123_214727_000000402055_00015_25620_1292.N1	23-JAN-2007 21:47:27	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	25620	No
30	GOM_TRA_1PNPDE20070123_214858_000000432055_00015_25620_1293.N1	23-JAN-2007 21:48:58	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	25620	No
31	GOM_TRA_1PNPDE20070123_215126_000000412055_00015_25620_1294.N1	23-JAN-2007 21:51:26	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	25620	No
32	GOM_TRA_1PNPDE20070123_215250_000000352055_00015_25620_1295.N1	23-JAN-2007 21:52:50	Straylight	35.000	179	24Omi2CMa	3.0320	24000.	70	25620	No
33	GOM_TRA_1PNPDE20070123_215500_000000412055_00015_25620_1296.N1	23-JAN-2007 21:55:00	Straylight	40.500	1	9Alp CMa	-1.4400	11000.	81	25620	No
34	GOM_TRA_1PNPDE20070123_220203_000000282055_00015_25620_1297.N1	23-JAN-2007 22:02:03	Twilight	28.000	153	3Bet CMI	2.8940	13100.	56	25620	No
35	GOM_TRA_1PNPDE20070123_220421_000000382055_00015_25620_1298.N1	23-JAN-2007 22:04:21	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	25620	No

36	GOM_TRA_1PNPDE20070123_220607_00000382055_00015_25620_1299.N1	23-JAN-2007 22:06:07	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25620	No
37	GOM_TRA_1PNPDE20070123_221021_00000352055_00015_25620_1300.N1	23-JAN-2007 22:10:21	Bright	35.000	107	37The Aur	2.6490	11000.	70	25620	No
38	GOM_TRA_1PNPDE20070123_221229_00000352055_00015_25620_1301.N1	23-JAN-2007 22:12:29	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	25620	No
39	GOM_TRA_1PNPDE20070123_222500_00000362055_00015_25620_1302.N1	23-JAN-2007 22:25:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25620	No
40	GOM_TRA_1PNPDE20070123_223559_00000352055_00015_25620_1303.N1	23-JAN-2007 22:35:59	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	25620	No
41	GOM_TRA_1PNPDE20070123_223920_00000332055_00015_25620_1304.N1	23-JAN-2007 22:39:20	Bright	33.000	5	3Alp Lyr	0.033000	11000.	66	25620	No
42	GOM_TRA_1PNPDE20070123_224720_00000342055_00015_25620_1305.N1	23-JAN-2007 22:47:20	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	25620	No
43	GOM_TRA_1PNPDE20070123_224927_00000342055_00015_25620_1306.N1	23-JAN-2007 22:49:27	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	25620	No
44	GOM_TRA_1PNPDE20070123_225504_00000432055_00015_25620_1307.N1	23-JAN-2007 22:55:04	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	25620	No
45	GOM_TRA_1PNPDE20070123_225934_00000512055_00015_25620_1429.N1	23-JAN-2007 22:59:34	Twilight	51.000	16	21Alp Sco	1.0200	3000.0	102	25620	No
46	GOM_TRA_1PNPDE20070123_230101_00000422055_00015_25620_1430.N1	23-JAN-2007 23:01:01	Dark	42.000	75	26Eps Sco	2.2910	4250.0	84	25620	No
47	GOM_TRA_1PNPDE20070123_230506_00000402055_00015_25620_1431.N1	23-JAN-2007 23:05:06	Dark	40.000	131	Gam Lup	2.8000	26000.	80	25620	No
48	GOM_TRA_1PNPDE20070123_230835_00000422055_00016_25621_1432.N1	23-JAN-2007 23:08:35	Dark	41.500	78	Alp Lup	2.3040	28000.	83	25621	No
49	GOM_TRA_1PNPDE20070123_231042_00000522055_00016_25621_1433.N1	23-JAN-2007 23:10:42	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	25621	No
50	GOM_TRA_1PNPDE20070123_231209_00000352055_00016_25621_1434.N1	23-JAN-2007 23:12:09	Dark	35.000	77	Eps Cen	2.3030	28000.	70	25621	No

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



4. Overview of dark signal processing per product

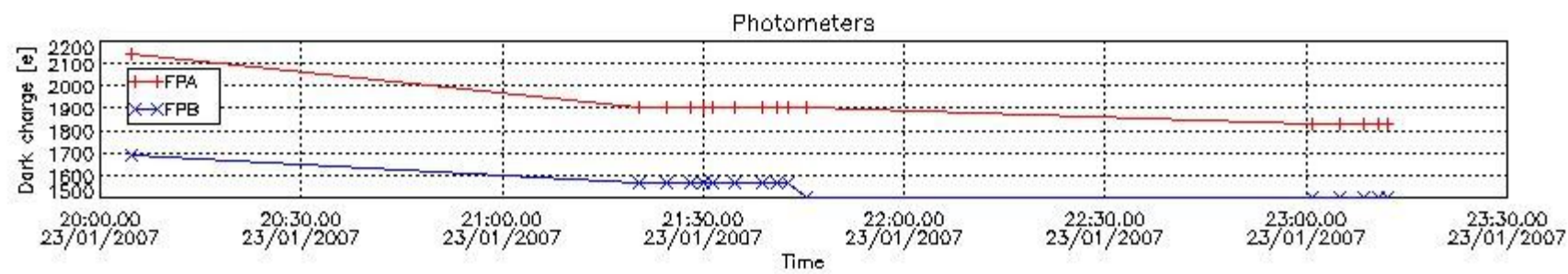
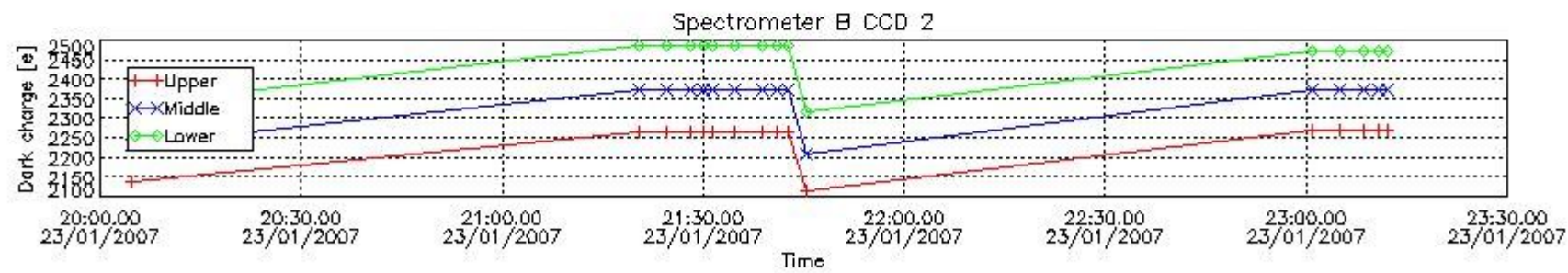
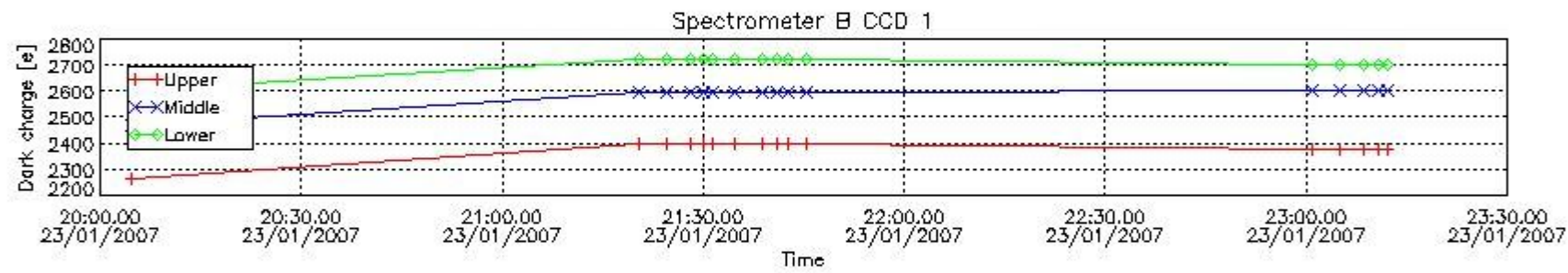
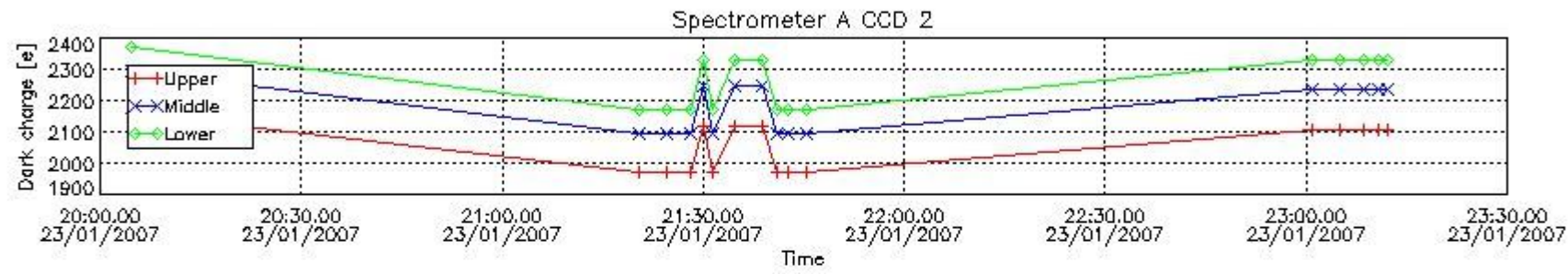
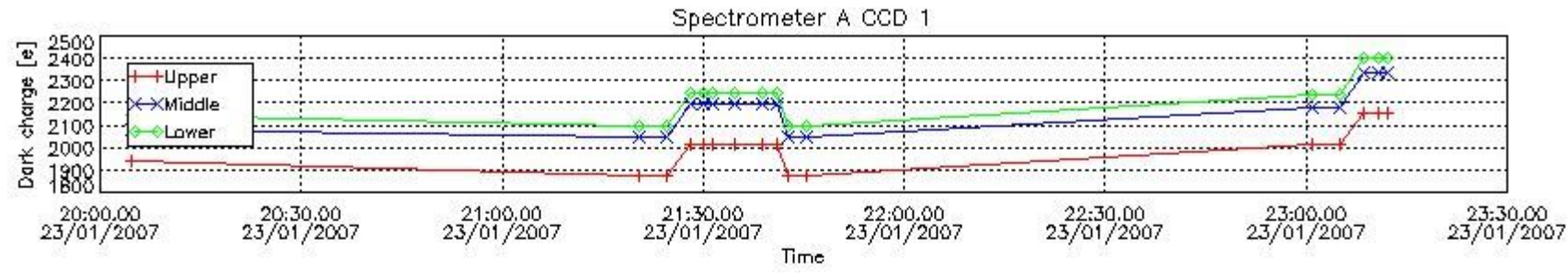
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20070123_200208_000000402055_00014_25619_1135.N1	DC map with no T dep.
GOM_TRA_1PNPDE20070123_200445_000000412055_00014_25619_1136.N1	DC map used
GOM_TRA_1PNPDE20070123_200651_000000392055_00014_25619_1137.N1	DC map used
GOM_TRA_1PNPDE20070123_200822_000000412055_00014_25619_1138.N1	DC map used
GOM_TRA_1PNPDE20070123_201050_000000422055_00014_25619_1139.N1	DC map used
GOM_TRA_1PNPDE20070123_201214_000000382055_00014_25619_1140.N1	DC map used
GOM_TRA_1PNPDE20070123_201424_000000362055_00014_25619_1141.N1	DC map used
GOM_TRA_1PNPDE20070123_202345_000000392055_00014_25619_1142.N1	DC map used
GOM_TRA_1PNPDE20070123_202532_000000402055_00014_25619_1143.N1	DC map used
GOM_TRA_1PNPDE20070123_202945_000000352055_00014_25619_1144.N1	DC map used
GOM_TRA_1PNPDE20070123_203153_000000352055_00014_25619_1145.N1	DC map used
GOM_TRA_1PNPDE20070123_204424_000000342055_00014_25619_1146.N1	DC map used
GOM_TRA_1PNPDE20070123_205523_000000362055_00014_25619_1147.N1	DC map used
GOM_TRA_1PNPDE20070123_205844_000000362055_00014_25619_1148.N1	DC map used
GOM_TRA_1PNPDE20070123_210644_000000342055_00014_25619_1149.N1	DC map used
GOM_TRA_1PNPDE20070123_210851_000000332055_00014_25619_1150.N1	DC map used
GOM_TRA_1PNPDE20070123_211427_000000442055_00014_25619_1151.N1	DC map used

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



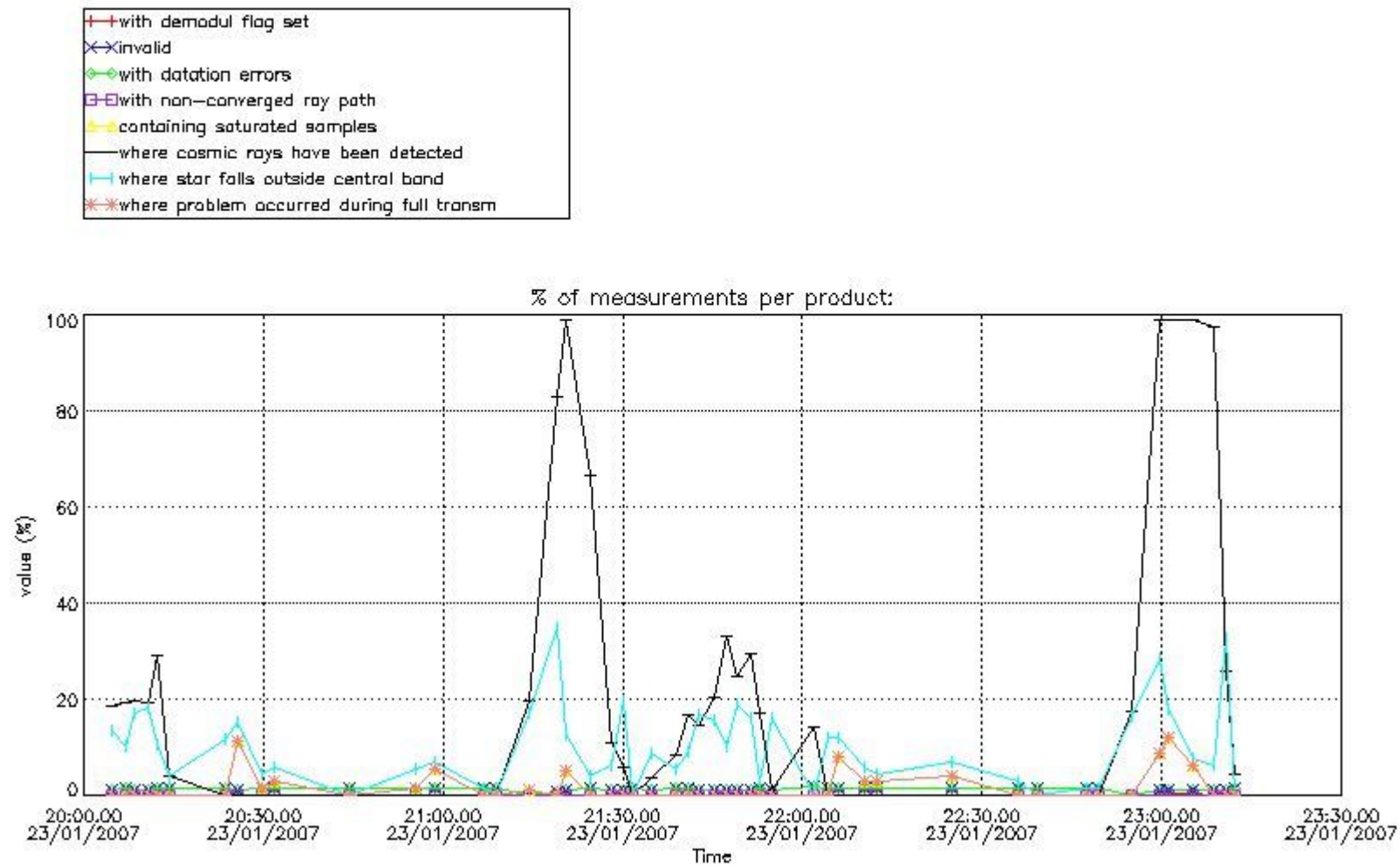
5. Demodulation flag and quality information monitoring

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.

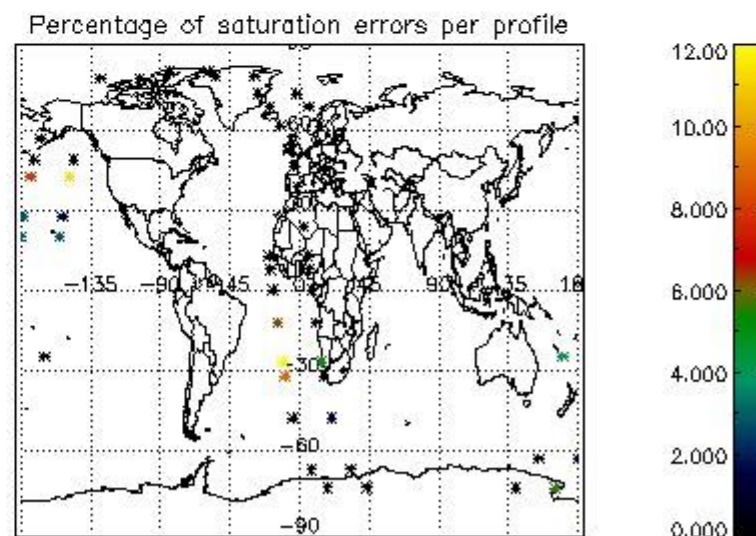
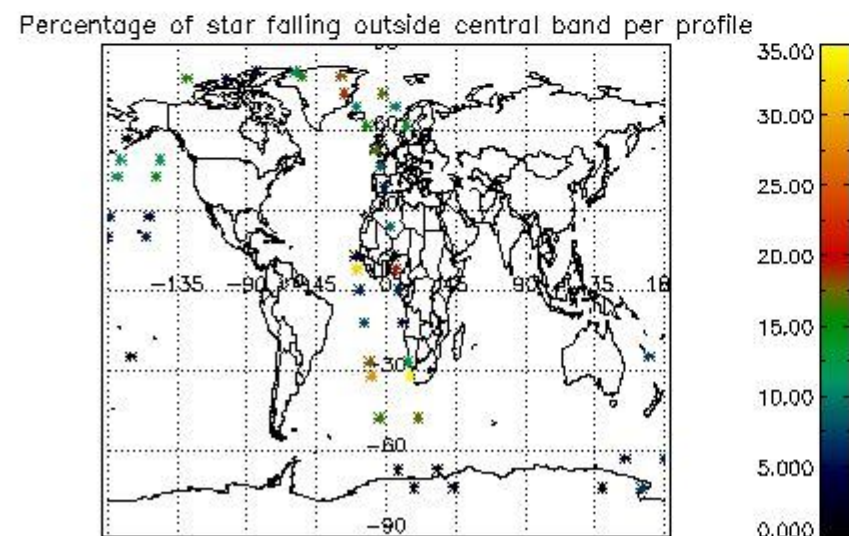
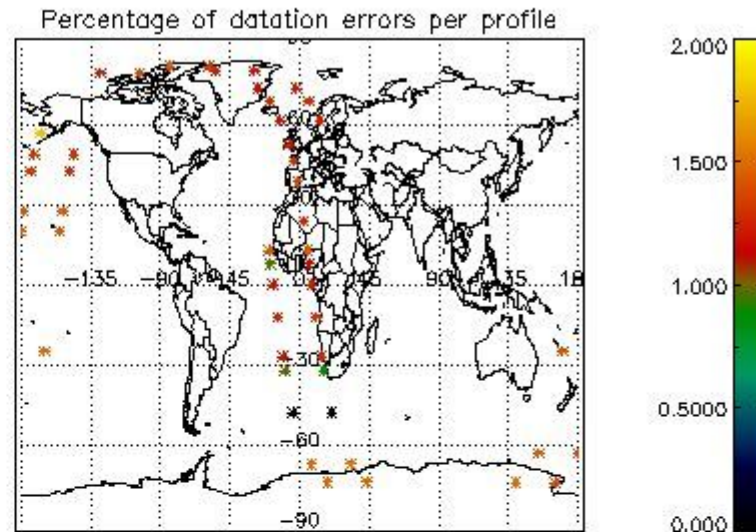
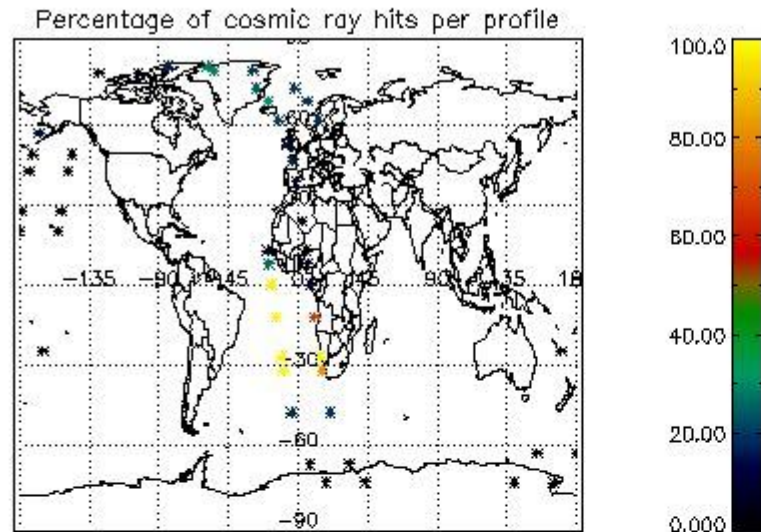
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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)



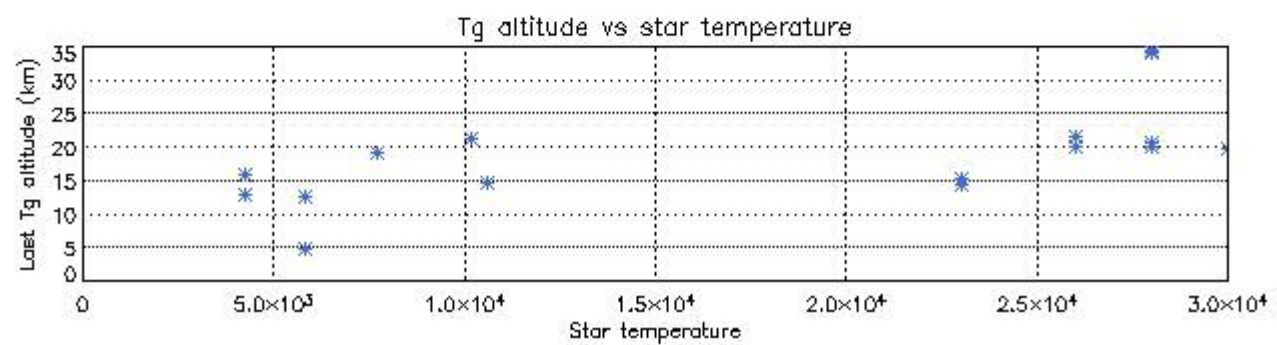
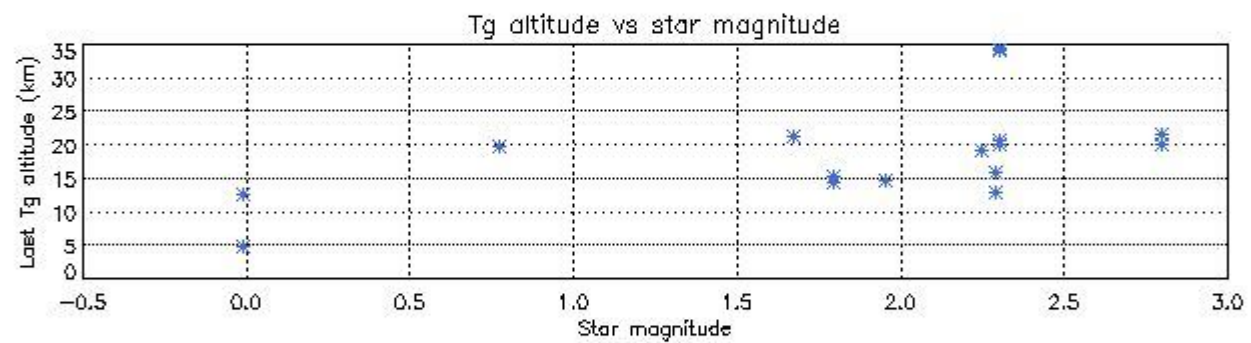
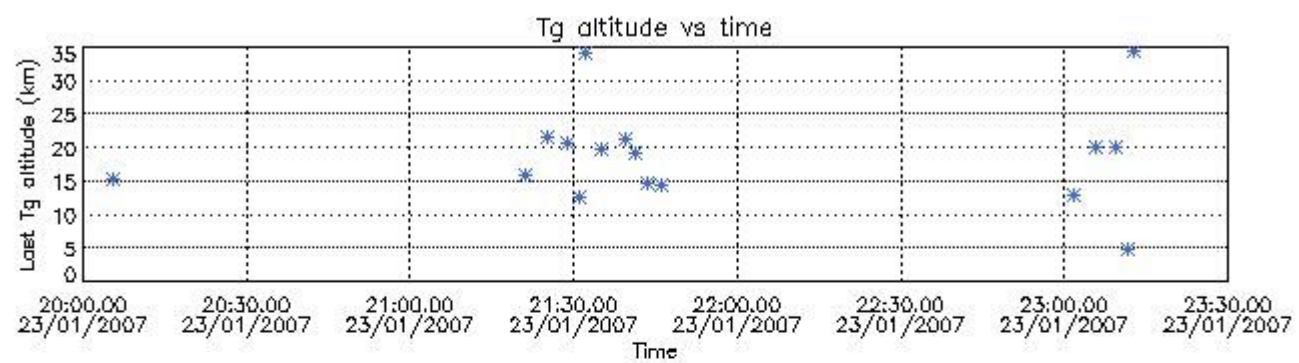
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.838	20.772	5.1703
St. deviation:	7.4291	4.3310	2.3199
Maximum:	34.427	26.471	6.8107
Minimum:	4.8844	13.594	3.5299
Number of data:	16.000	20.000	2.0000

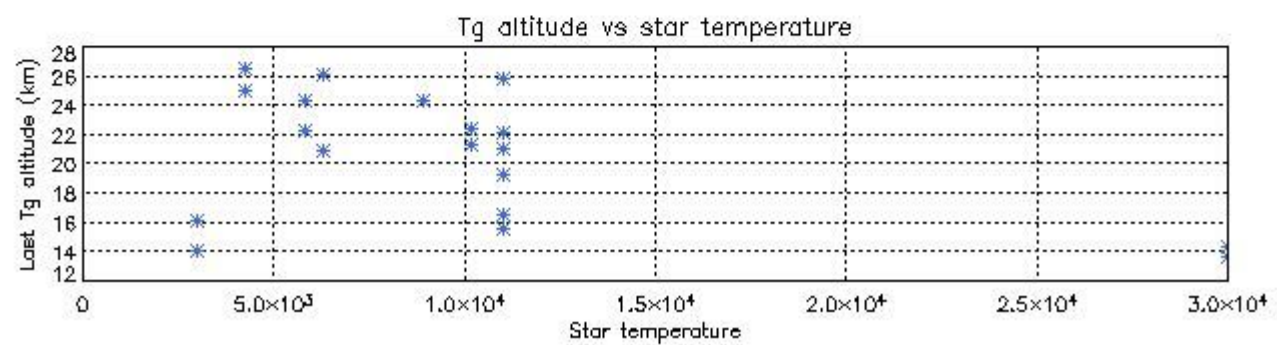
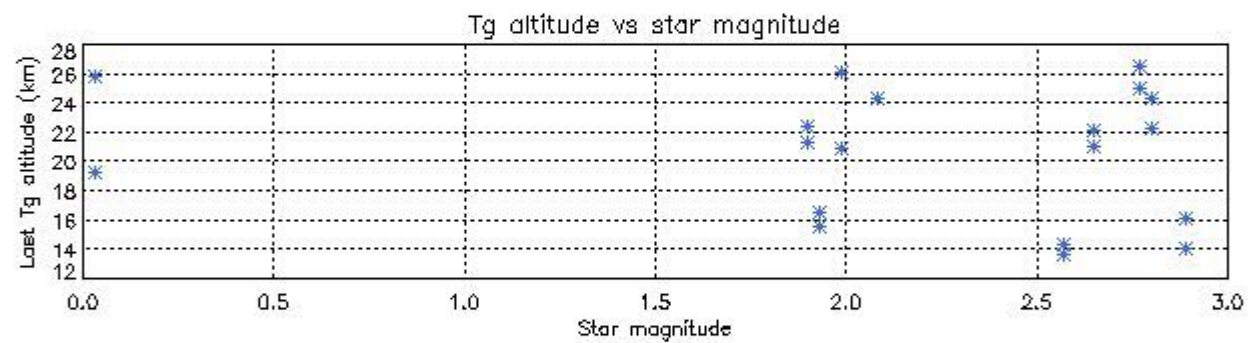
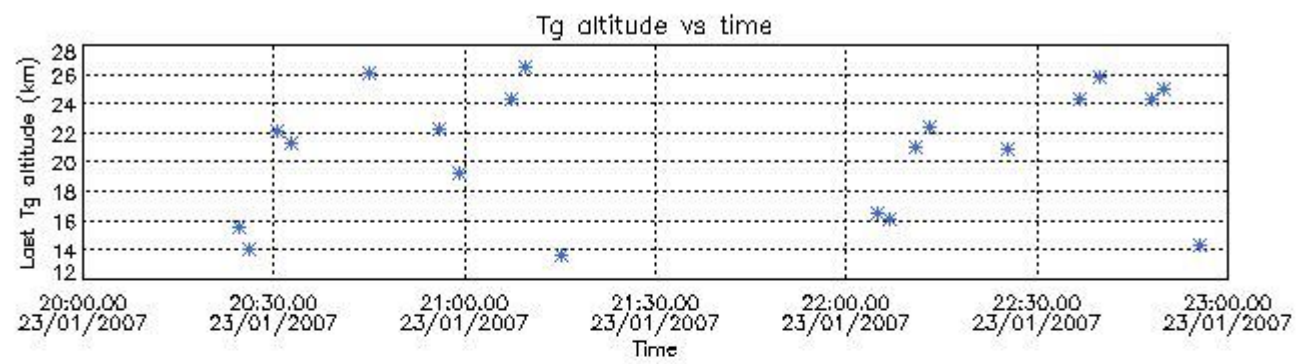
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



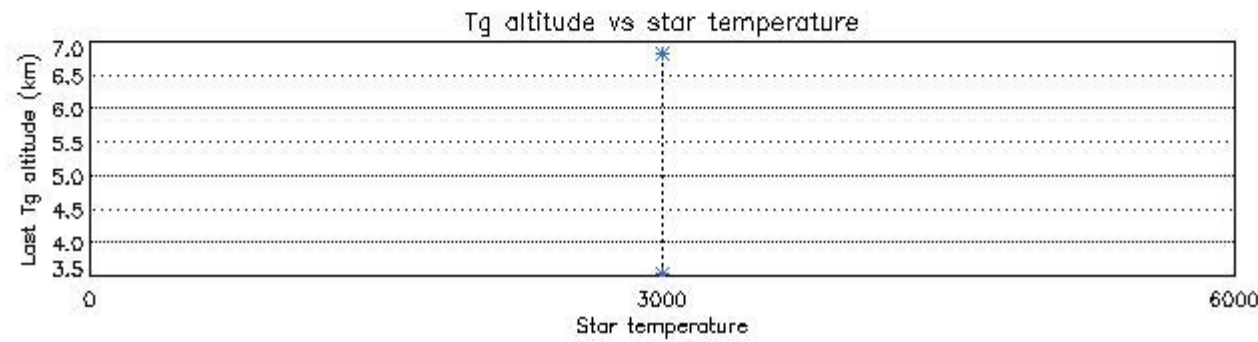
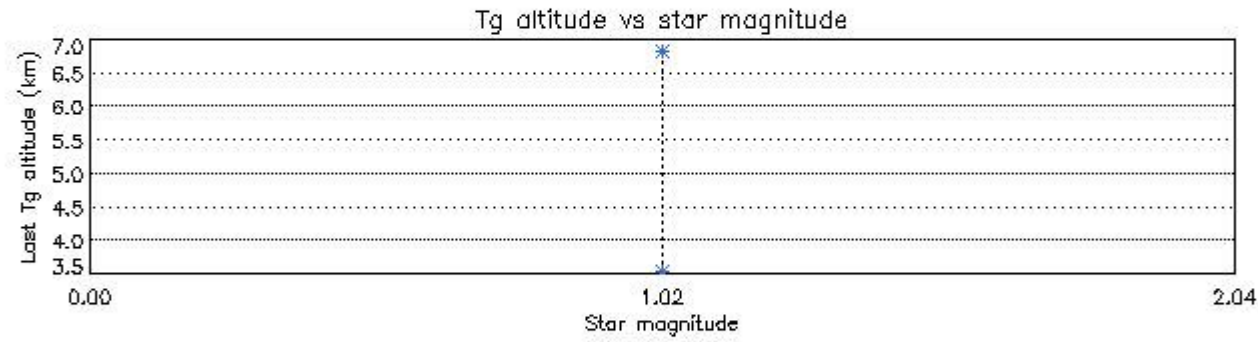
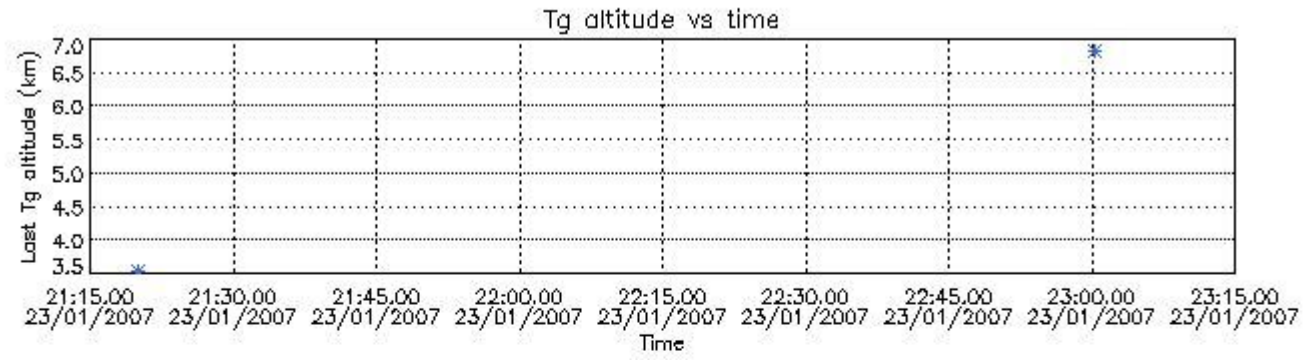
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

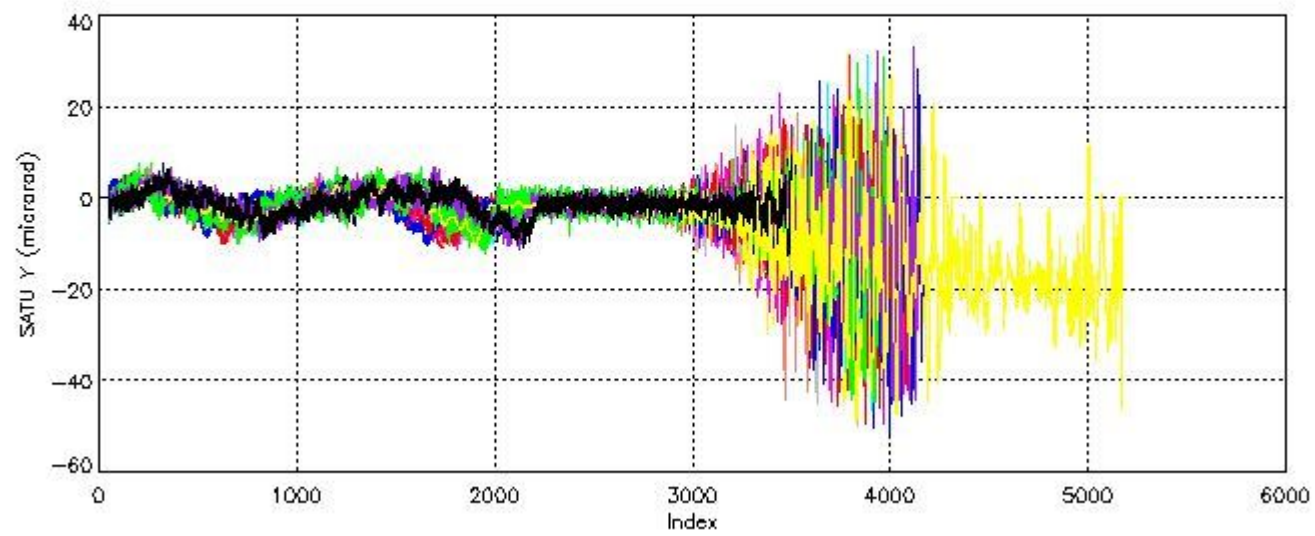
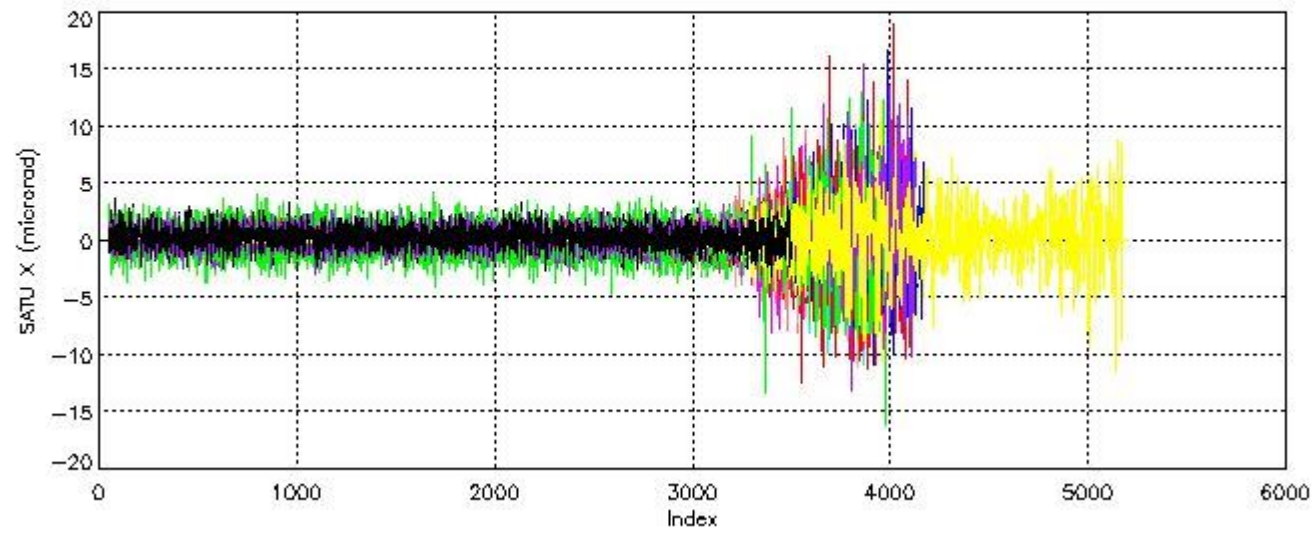


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13493	-1.2743	-0.012414	-1.4502
St. deviation:	0.58120	2.7534	0.64716	2.7015
Maximum:	4.1000	7.6000	3.5000	7.6000
Minimum:	-3.7000	-10.200	-3.8000	-10.800

Number of data:	14800.	14800.	16250.	16250.
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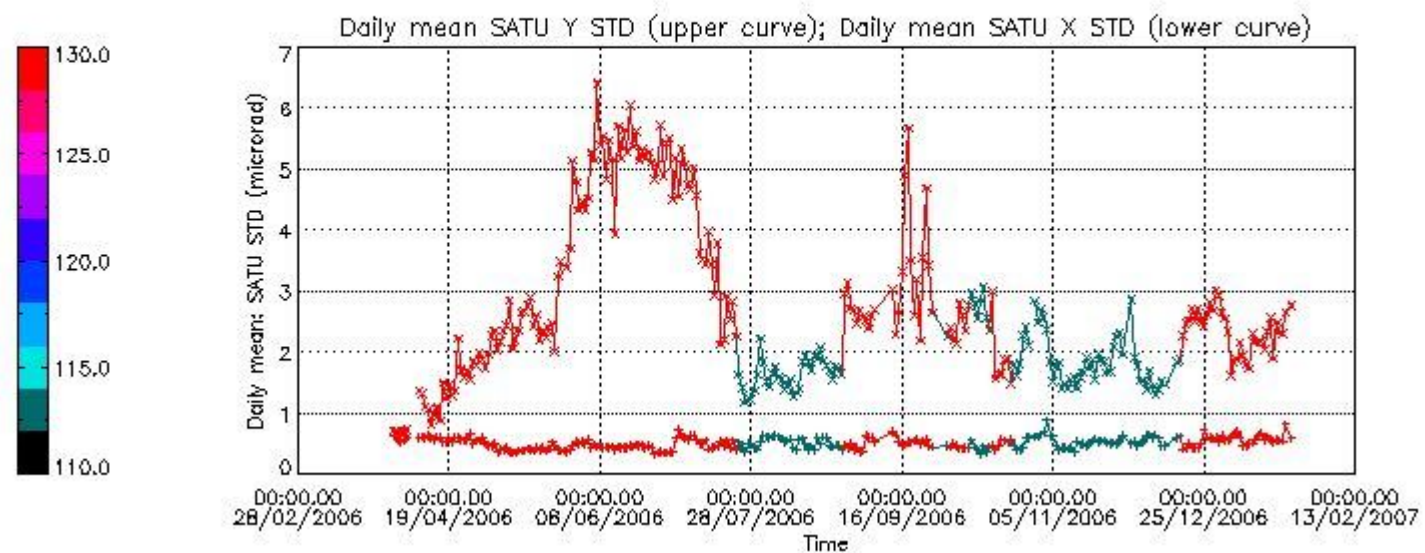
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

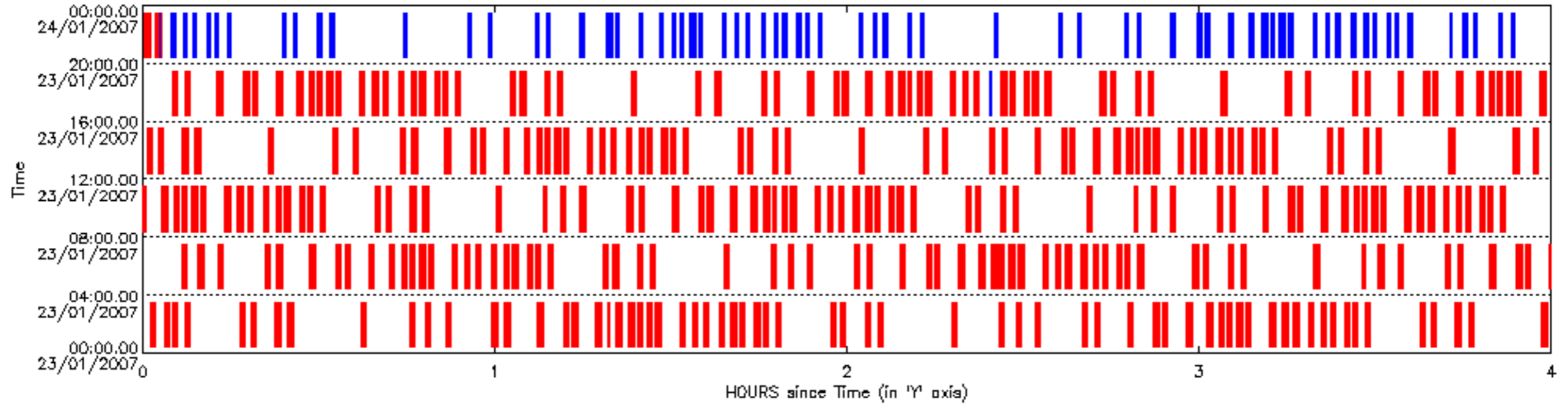
Lower curve: STD of SATU X axis

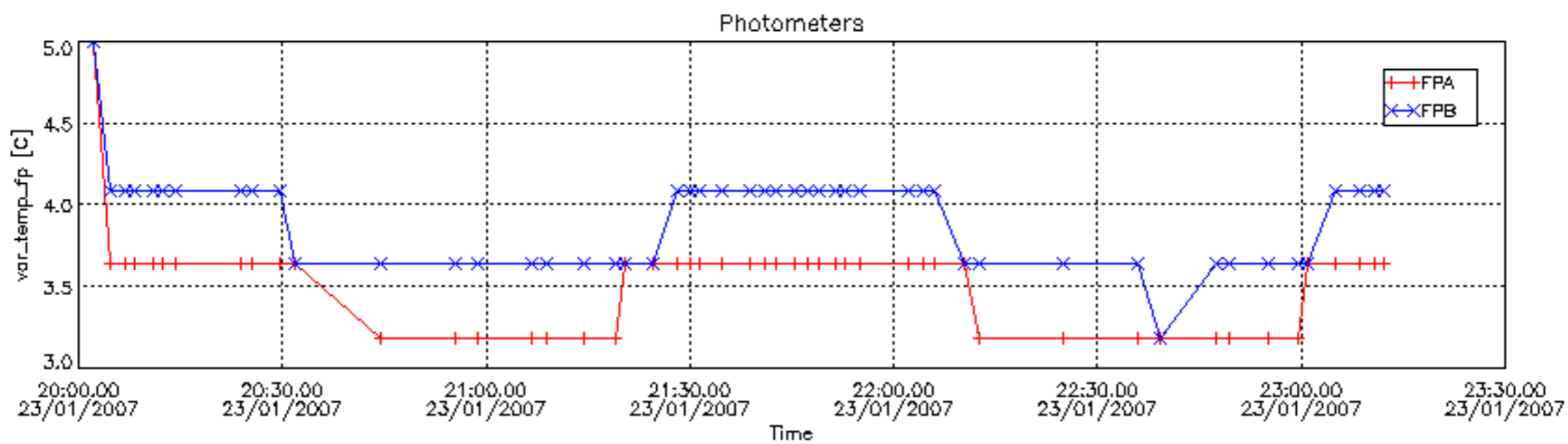
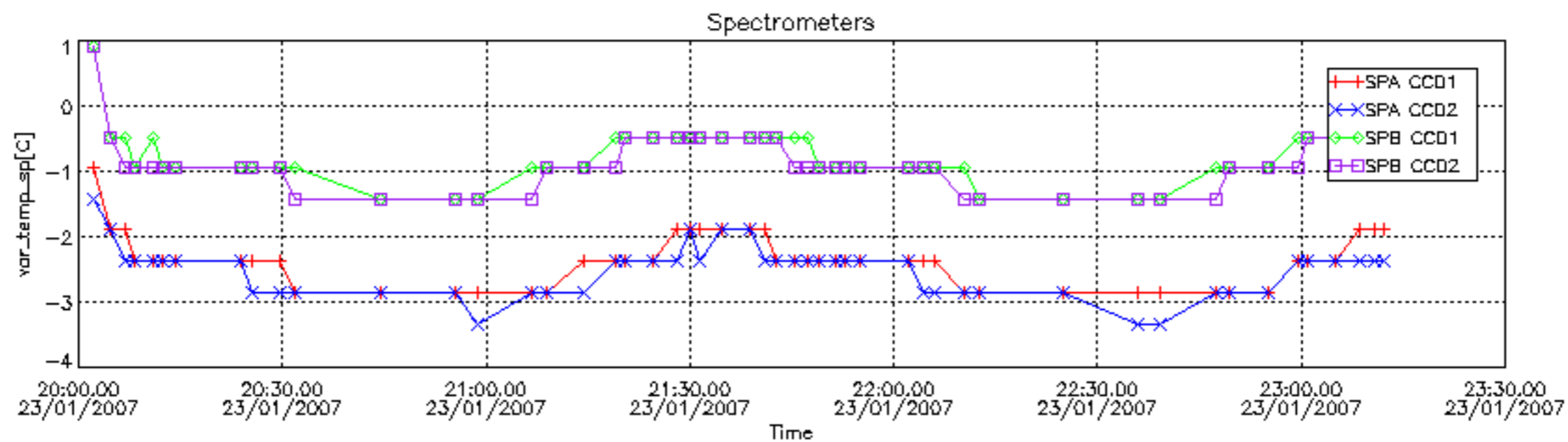


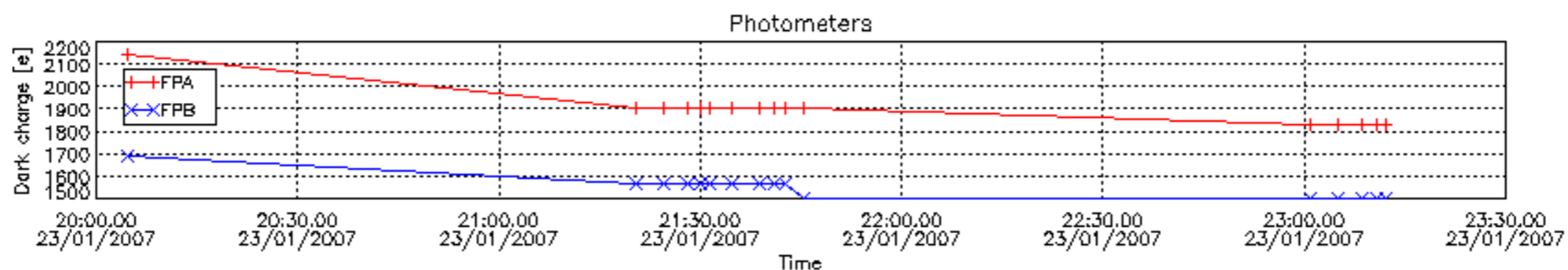
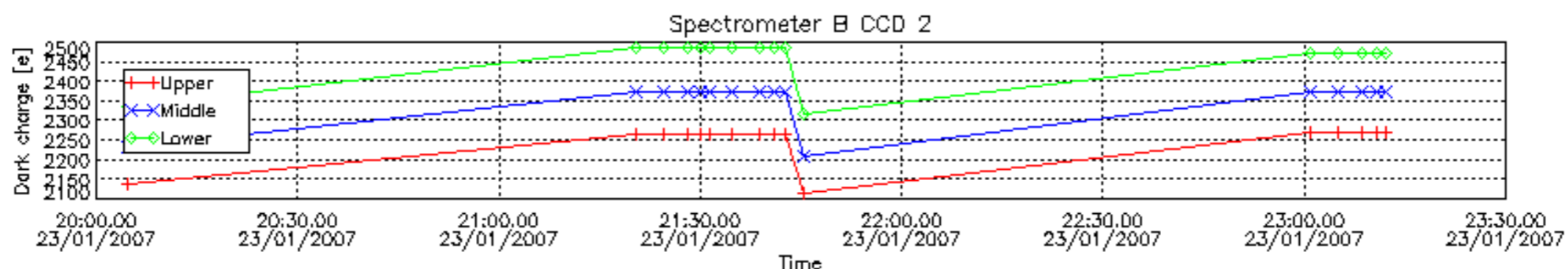
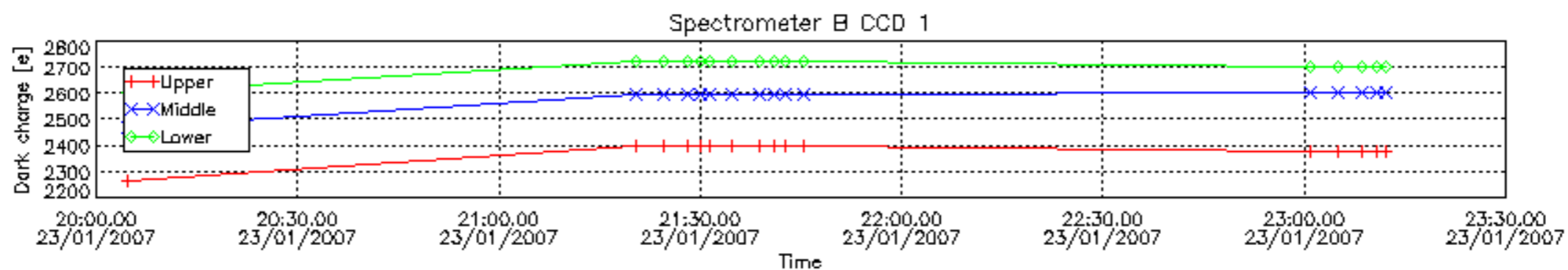
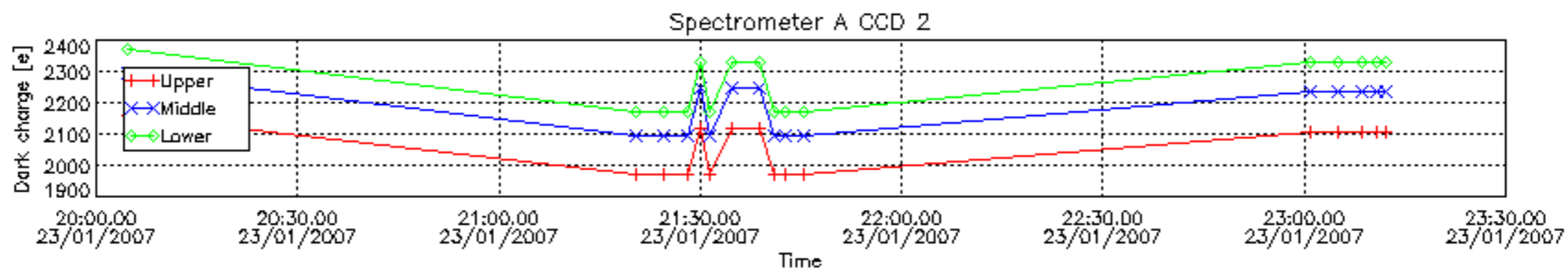
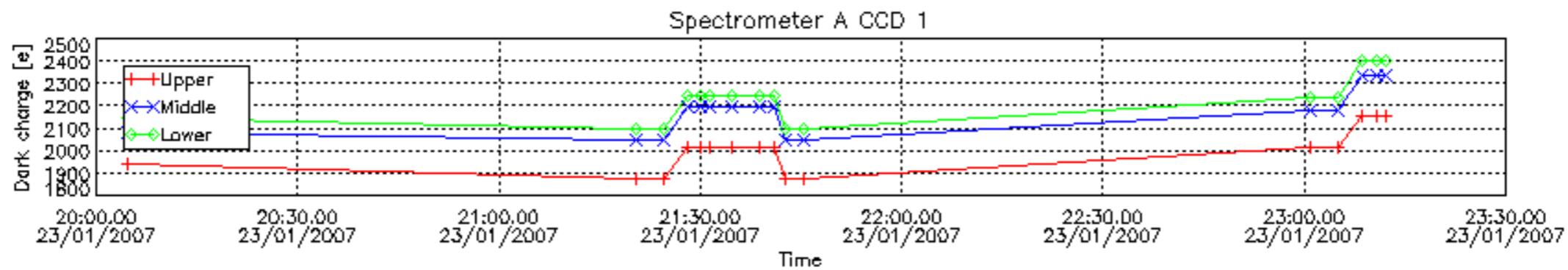
8. Auxiliary Data Files used for the production reported in section 2.4

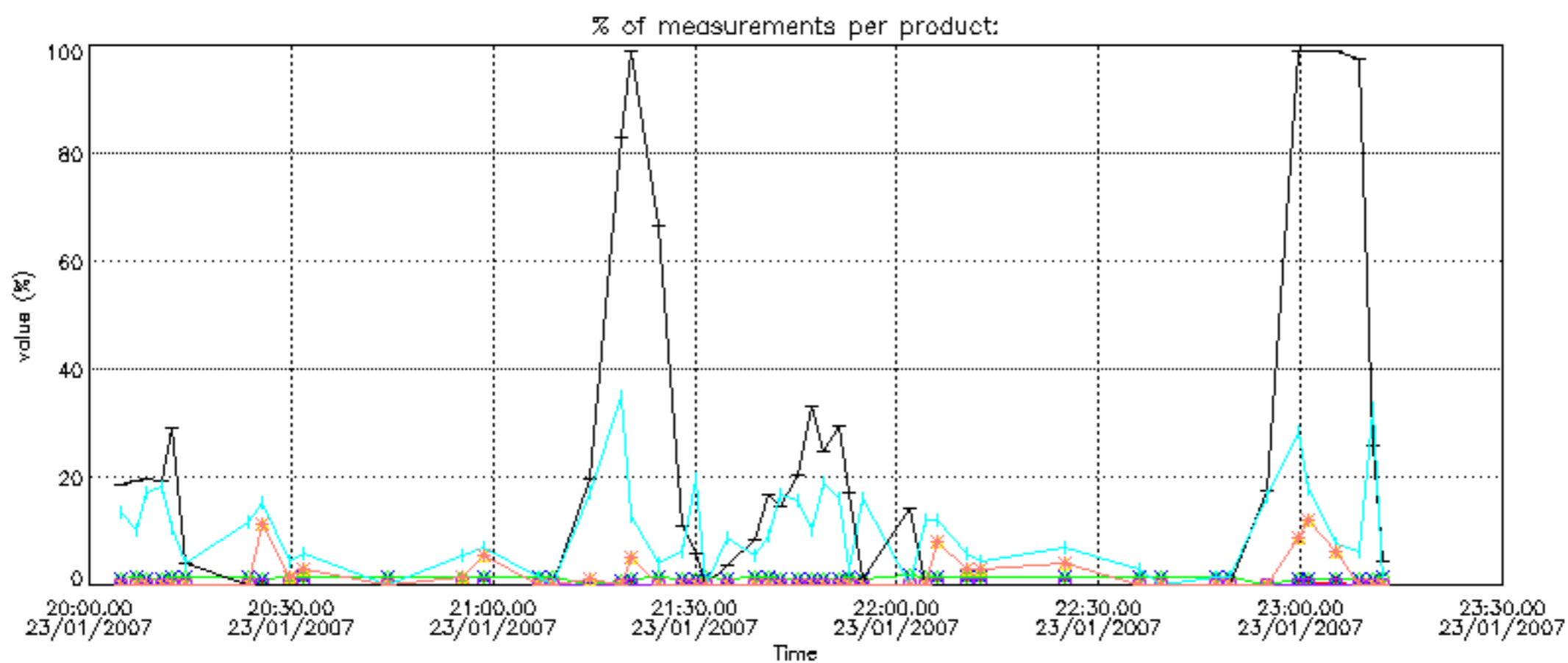
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-JAN-2007 20:02:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070117_105731_20070116_000000_20100101_000000	1	23-JAN-2007 20:02:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-JAN-2007 20:02:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JAN-2007 20:02:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-JAN-2007 20:02:08
ECMWF_FILE	AUX_ECF_AXNECM20070123_062244_20070123_150000_20070124_030000	1	23-JAN-2007 20:02:08
ECMWF_FILE	AUX_ECF_AXNECM20070123_062303_20070123_210000_20070124_090000	18	23-JAN-2007 21:18:57
OPTIONAL_ECMWF_FILE	MISSING	1	23-JAN-2007 20:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070123_195804_000041442055_00014_25619_2638.N1	1	23-JAN-2007 20:02:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070123_211227_000057382055_00014_25619_2639.N1	45	23-JAN-2007 22:59:34

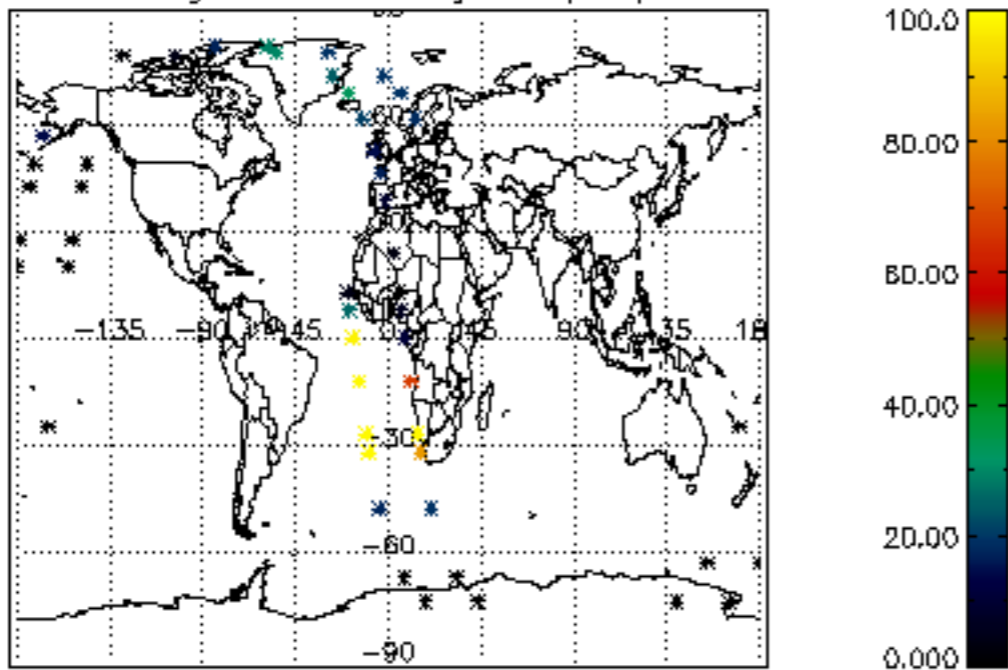




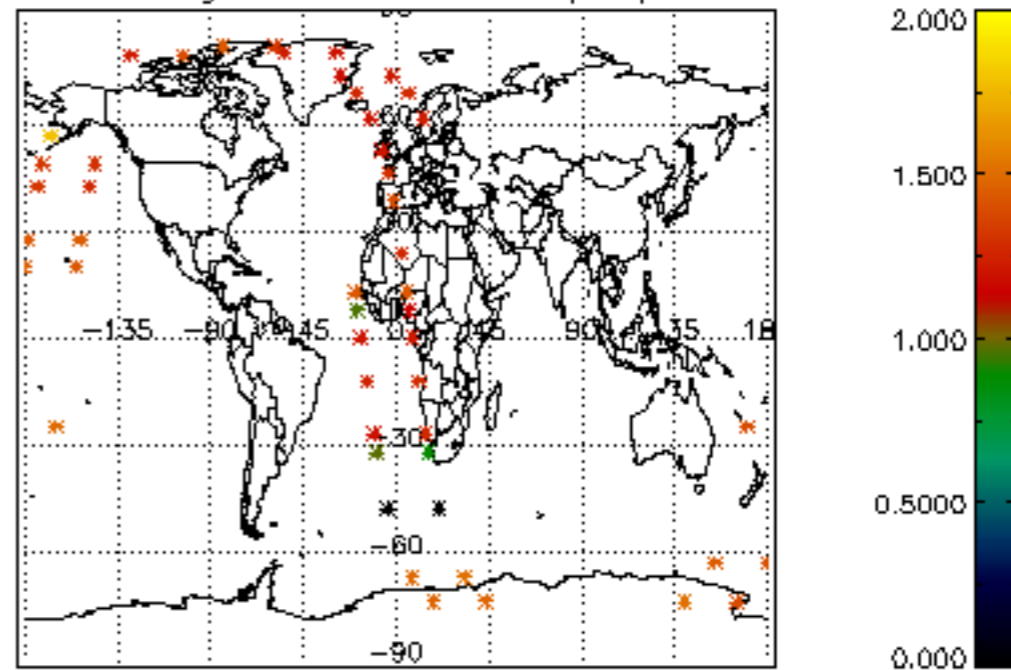




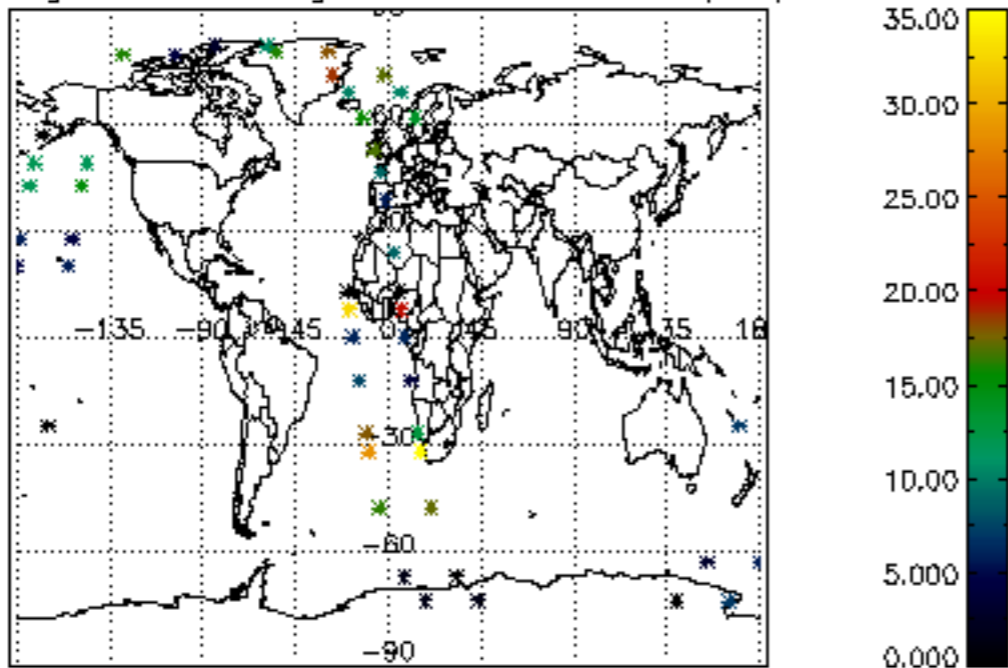
Percentage of cosmic ray hits per profile



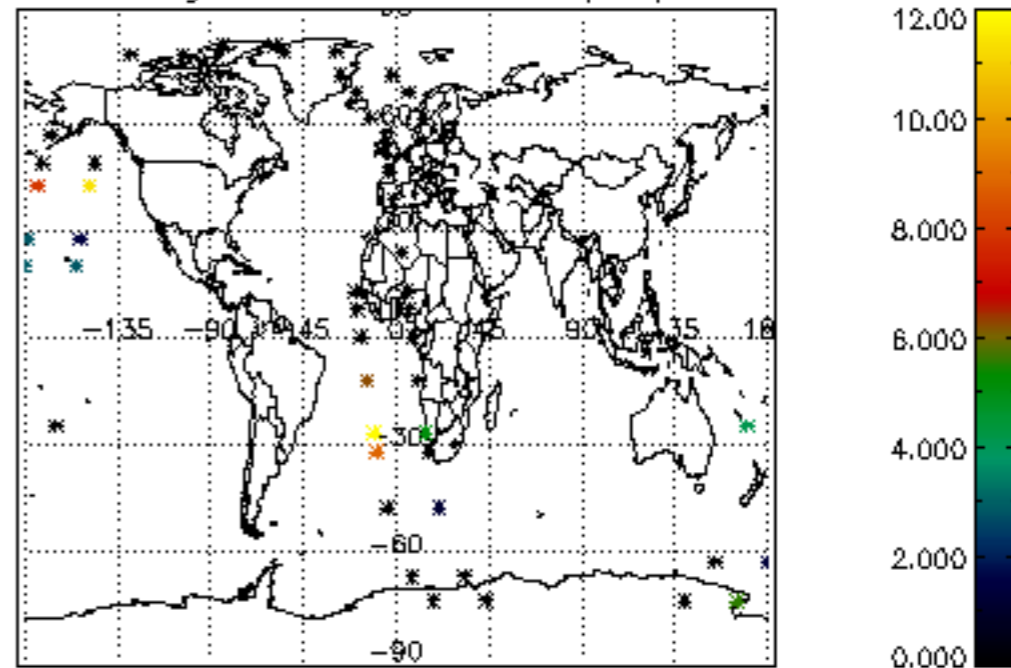
Percentage of datation errors per profile



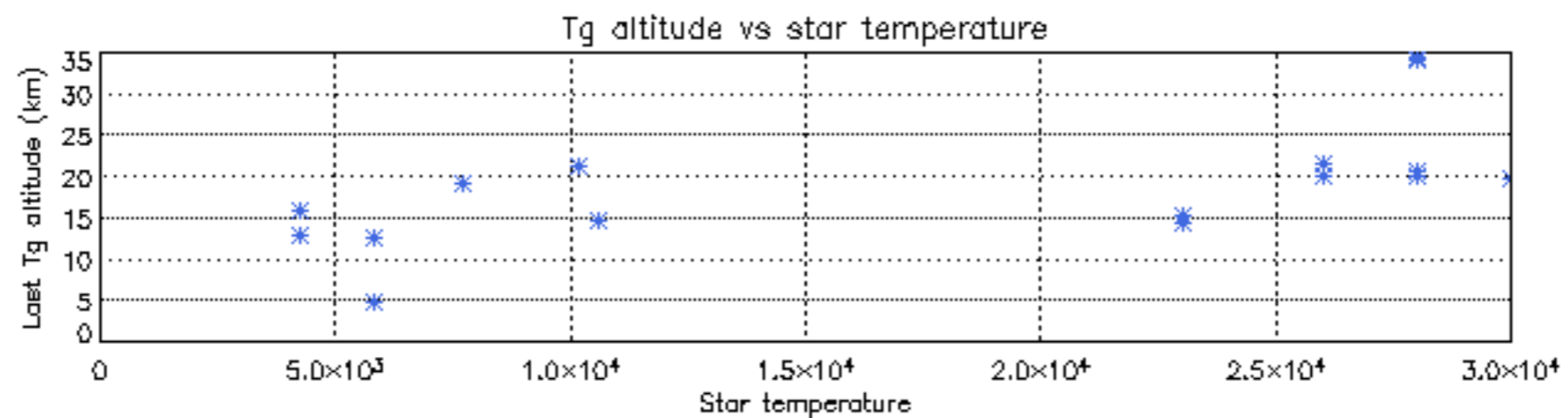
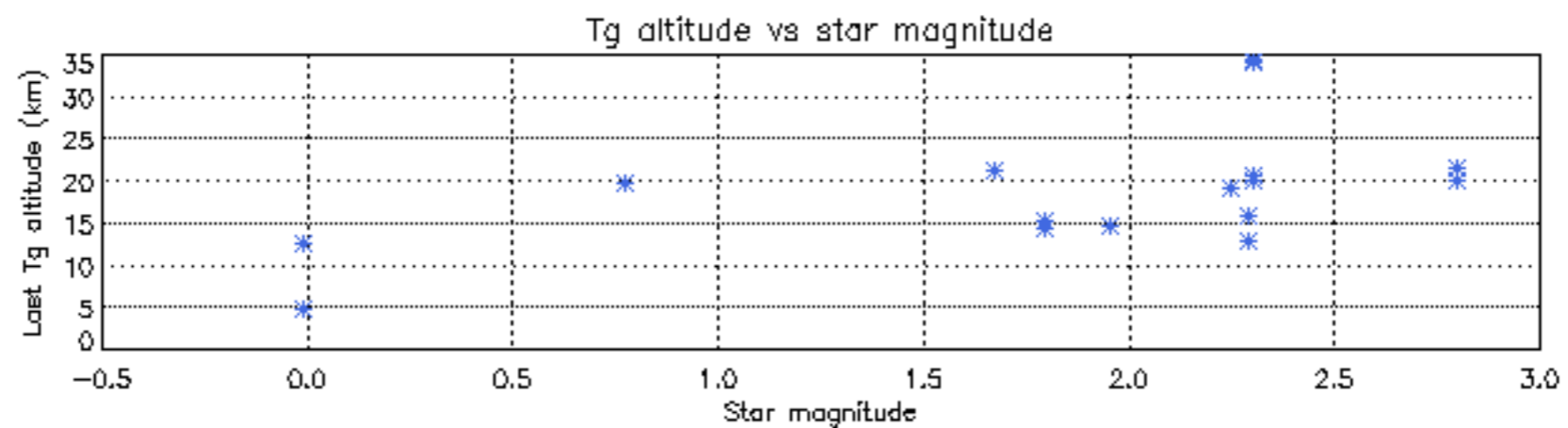
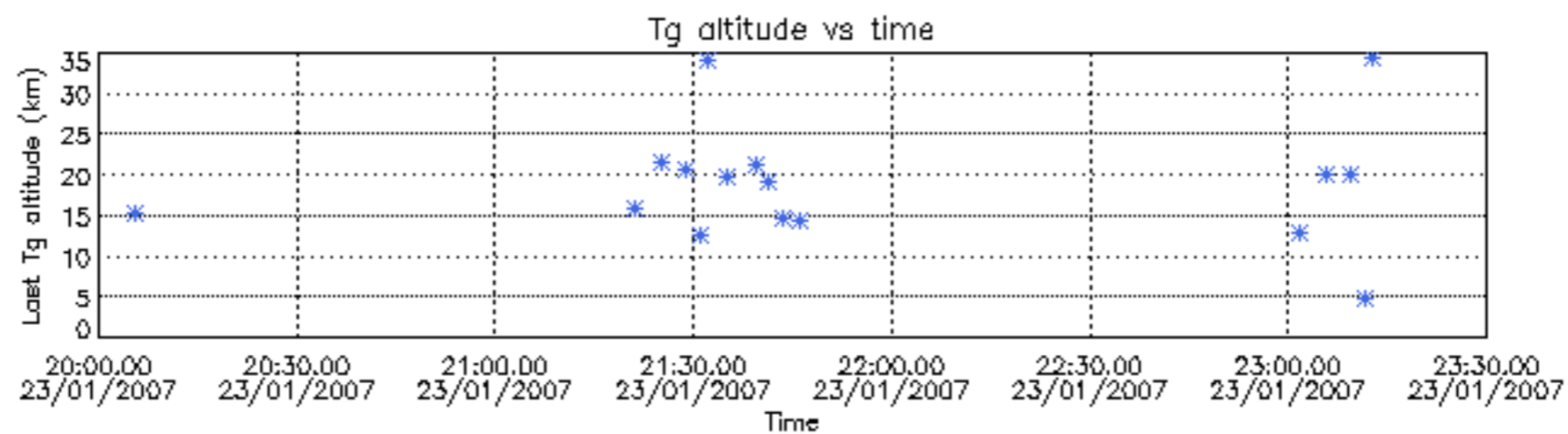
Percentage of star falling outside central band per profile



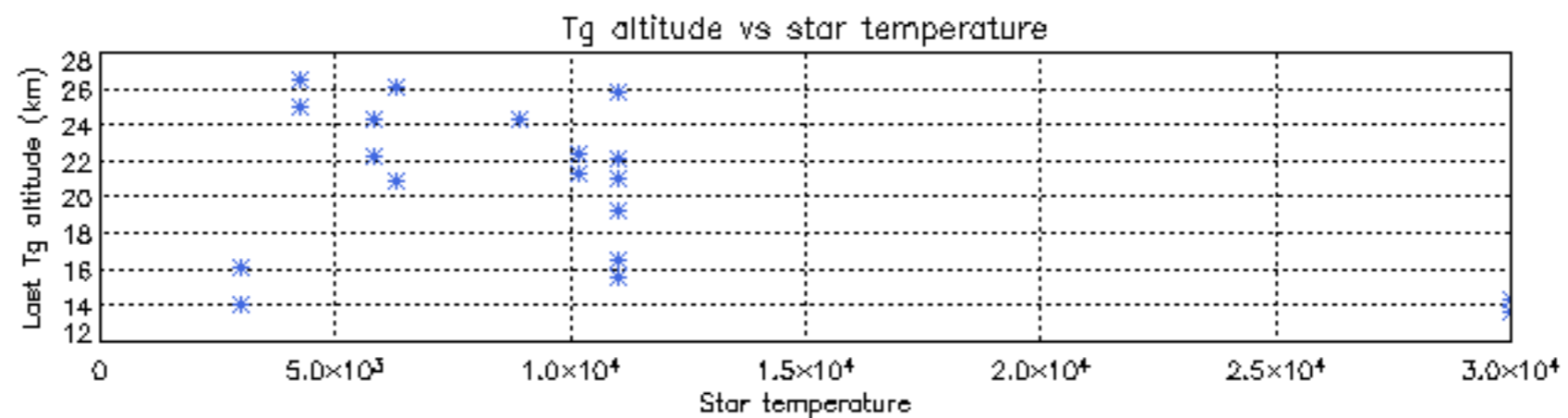
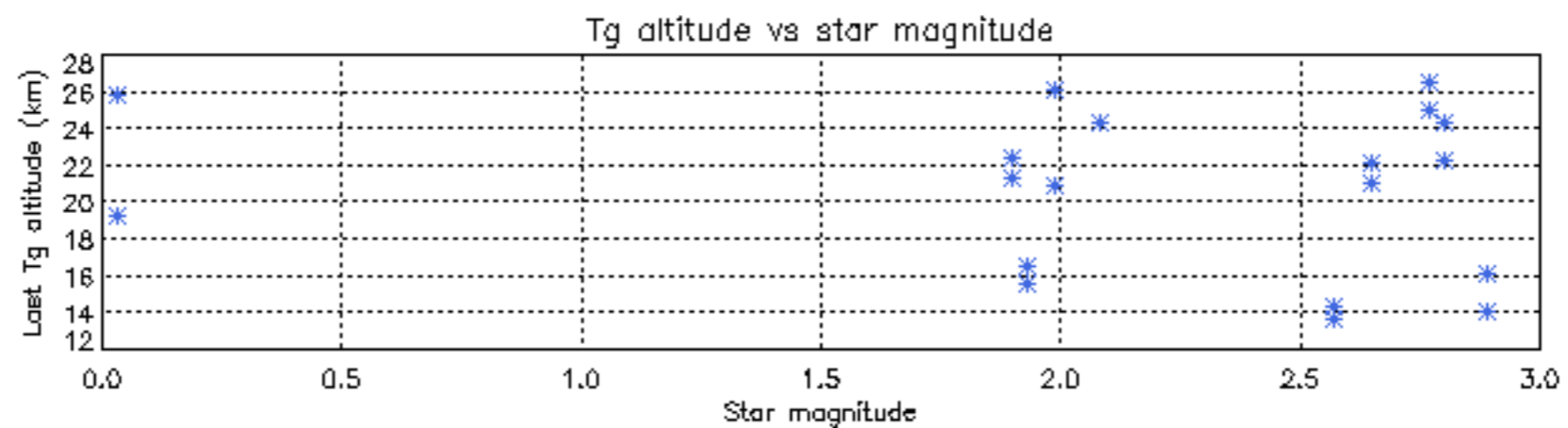
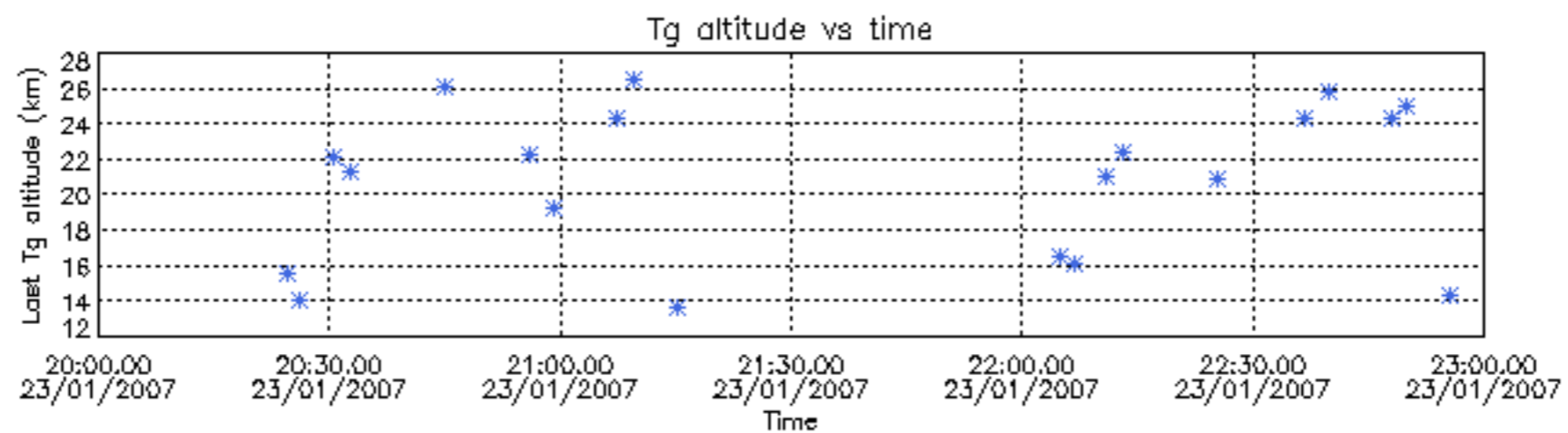
Percentage of saturation errors per profile



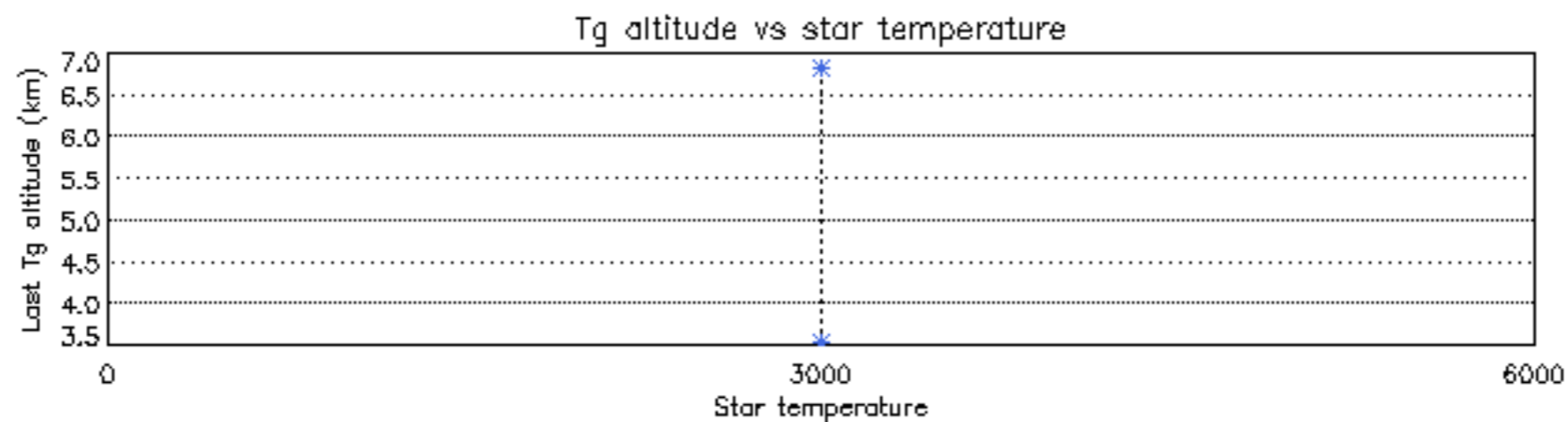
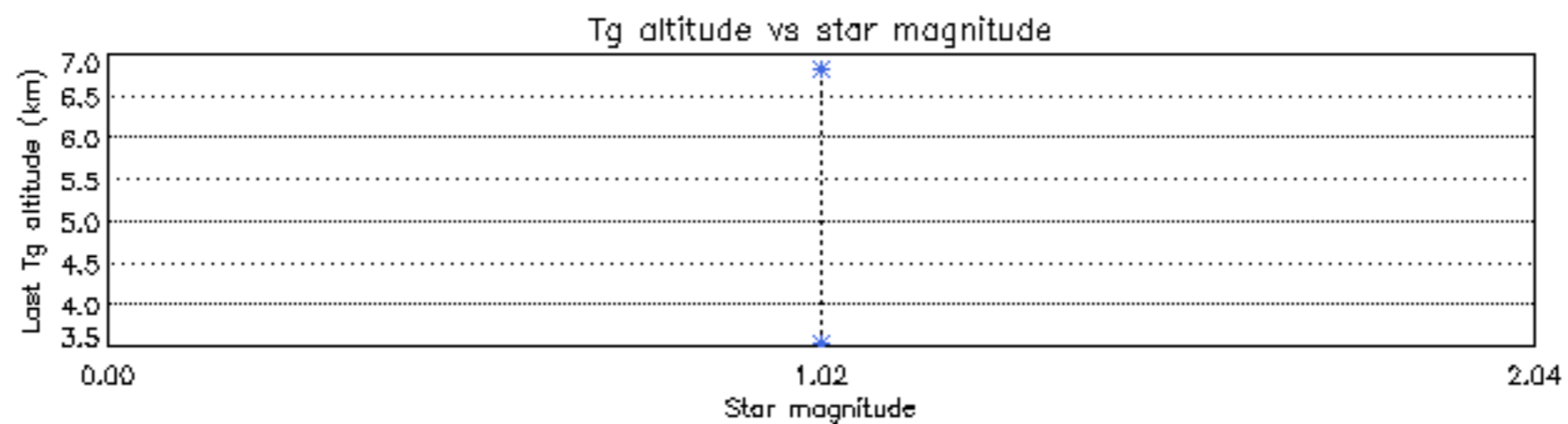
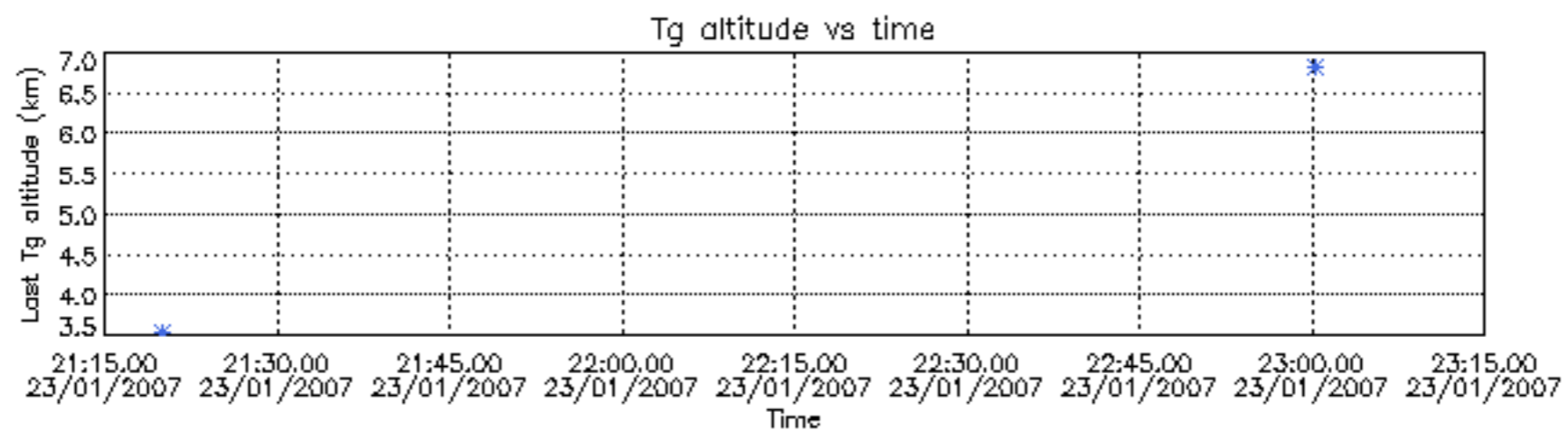
Tangent altitude at which the star is lost

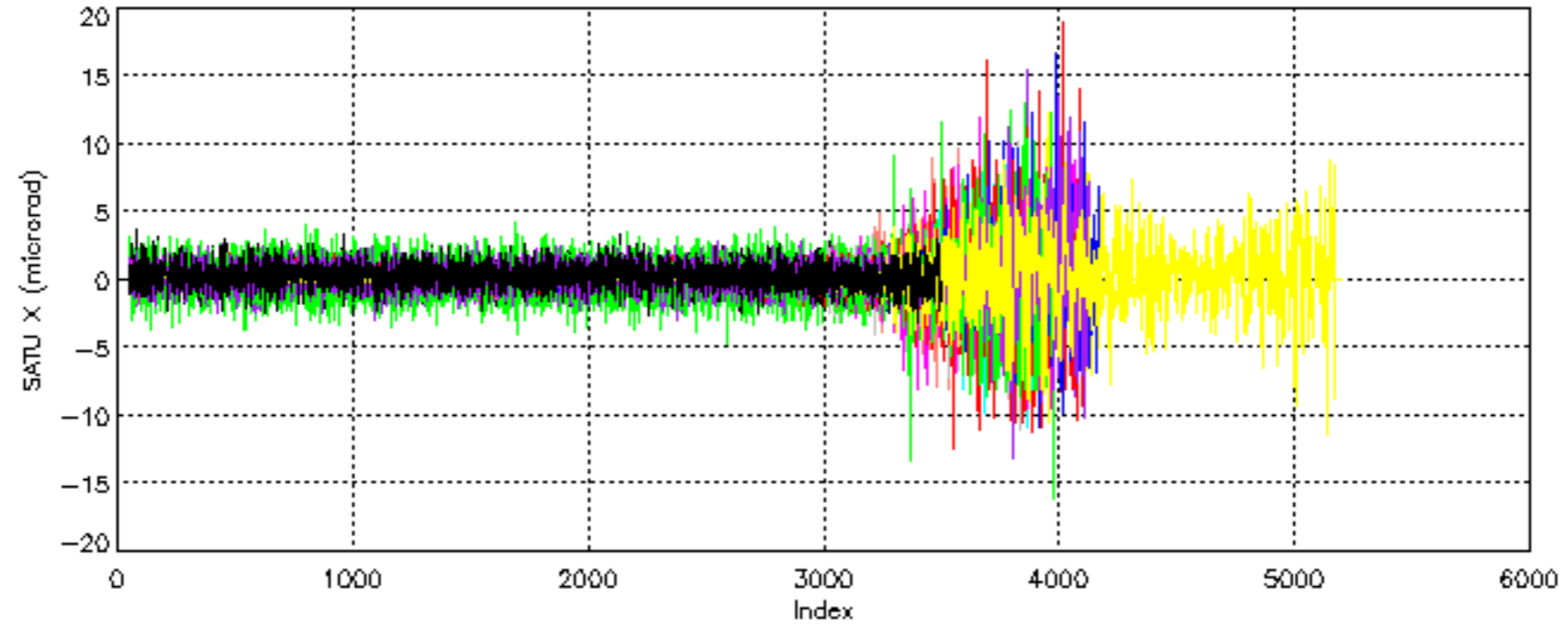


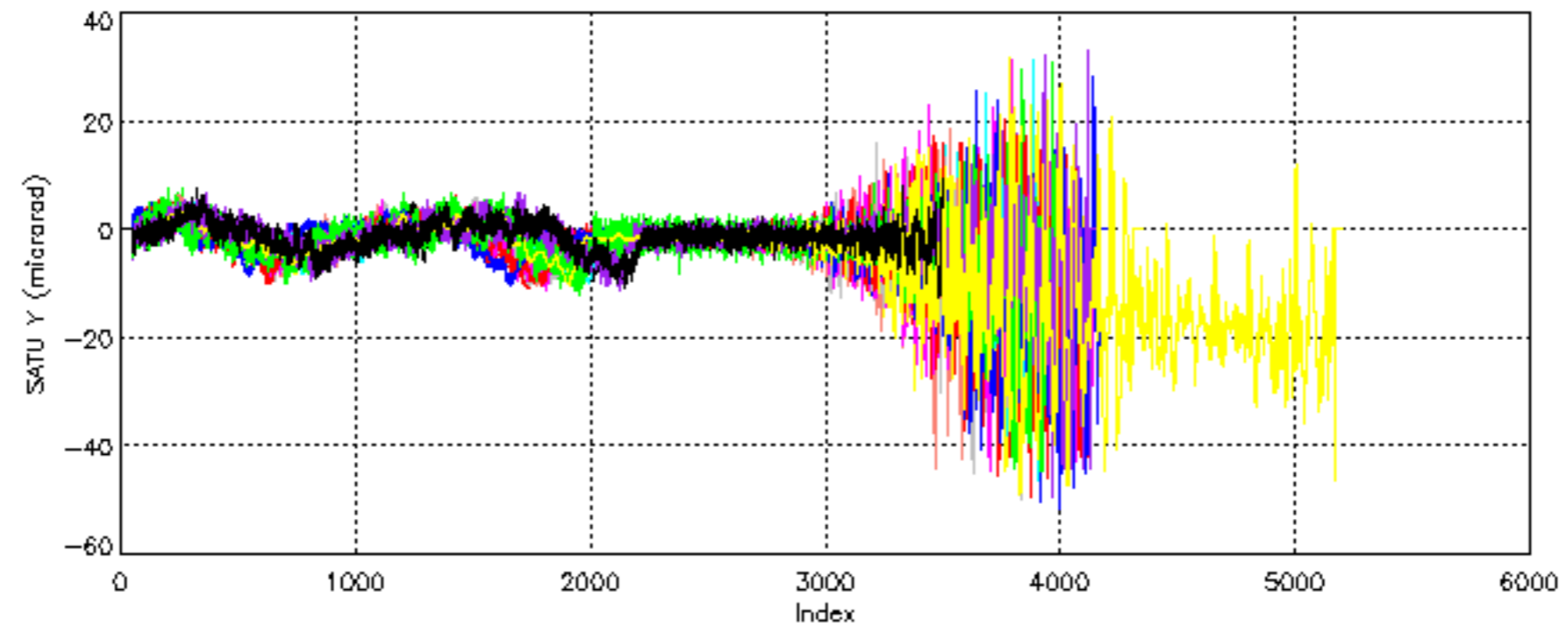
Tangent altitude at which the star is lost

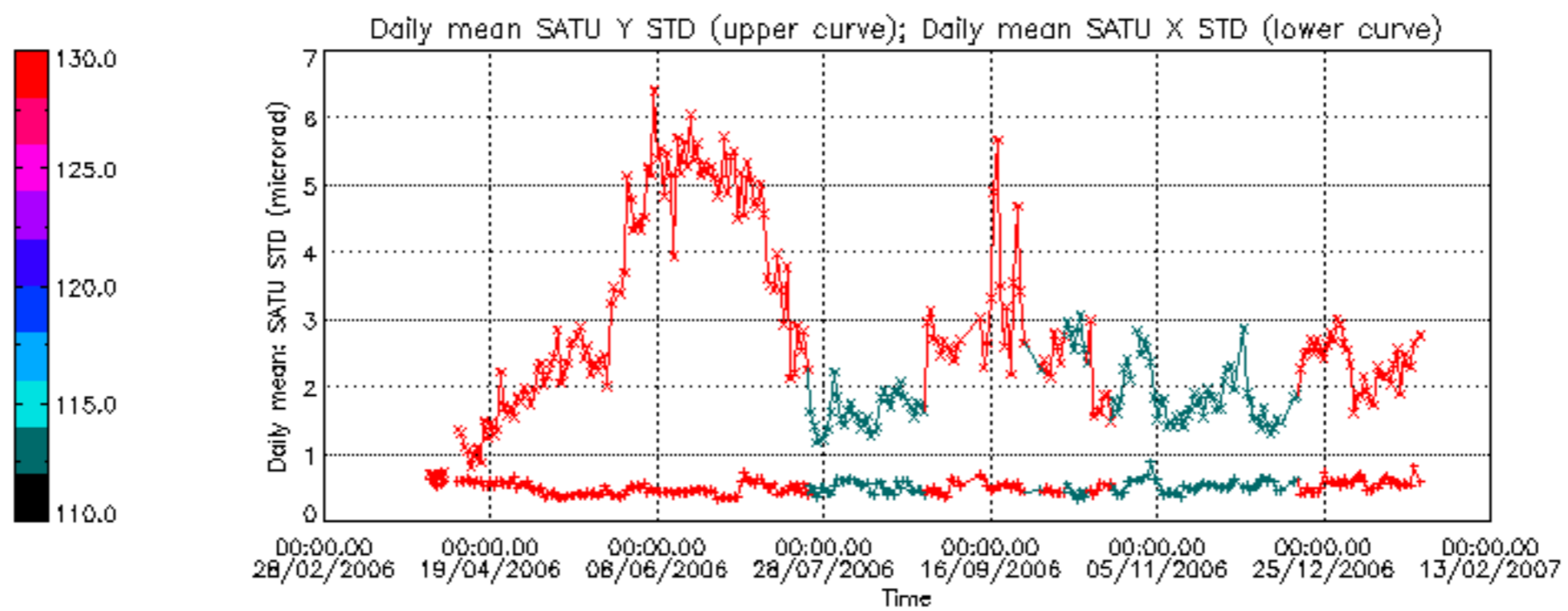


Tangent altitude at which the star is lost









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1; -684.5; 01-JAN-2007 01:00:46; Dark ; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;25292
 2; -193.3; 01-JAN-2007 01:08:57; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;25292
 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293
 20; 2568.2; 01-JAN-2007 01:54:58; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25293
 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293
 23; 3691.3; 01-JAN-2007 02:13:42; Bright; 5.5; 60; 7Bet UMi ; 2.08; 3950;occ; 11; 0;25293

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1; -2344.6; 01-JAN-2007 02:13:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25293
 2; -2114.0; 01-JAN-2007 02:17:32; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25293
 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293
 8; -104.3; 01-JAN-2007 02:51:02; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;25293
 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294
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 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294
 20; 1881.5; 01-JAN-2007 03:24:08; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25294
 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294
 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294
 25; 2567.8; 01-JAN-2007 03:35:34; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25294
 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294
 27; 3423.2; 01-JAN-2007 03:49:49; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25294

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 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294
 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294
 6; -842.4; 01-JAN-2007 04:19:20; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;25294
 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294
 8; -280.8; 01-JAN-2007 04:28:41; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25294
 9; -192.3; 01-JAN-2007 04:30:10; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;25294
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 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
17; 978.8; 01-JAN-2007 04:49:41; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;25295
18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
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1; -2344.9; 01-JAN-2007 05:34:53; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;25295
2; -2114.0; 01-JAN-2007 05:38:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25295
3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
7; -682.8; 01-JAN-2007 06:02:35; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;25295
8; -280.4; 01-JAN-2007 06:09:18; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;25295
9; -191.9; 01-JAN-2007 06:10:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;25295
10; -103.2; 01-JAN-2007 06:12:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25295
11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
12; 229.8; 01-JAN-2007 06:17:48; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;25296
13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
16; 733.1; 01-JAN-2007 06:26:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25296
17; 979.1; 01-JAN-2007 06:30:17; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;25296
18; 1172.8; 01-JAN-2007 06:33:31; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;25296
19; 1341.0; 01-JAN-2007 06:36:19; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;25296
20; 1569.6; 01-JAN-2007 06:40:08; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;25296
21; 1769.9; 01-JAN-2007 06:43:28; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;25296
22; 1881.6; 01-JAN-2007 06:45:20; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25296
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11; 3670.9; 12-JAN-2007 11:30:55; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25456
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32; 5087.5; 13-JAN-2007 23:07:06; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25477
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7;	2414.4;	19-JAN-2007	10:49:50;	Bright;		36.0;	28;	12Bet Tau	;	1.65;	15200;occ;	72;	0;	25556
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9; -169.1; 27-JAN-2007 09:15:01; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;25669
10; 66.9; 27-JAN-2007 09:18:57; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;25670
11; 157.9; 27-JAN-2007 09:20:28; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;25670
12; 324.5; 27-JAN-2007 09:23:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25670
13; 432.8; 27-JAN-2007 09:25:03; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;25670
14; 665.3; 27-JAN-2007 09:28:56; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25670

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 16; 907.4; 27-JAN-2007 09:32:58; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;25670
 17; 1062.3; 27-JAN-2007 09:35:33; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;25670
 18; 1188.1; 27-JAN-2007 09:37:39; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25670
 19; 1275.0; 27-JAN-2007 09:39:05; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25670
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 21; 1505.0; 27-JAN-2007 09:42:56; Dark ; 37.0; 179; 240mi2CMA ; 3.03; 24000;occ; 74; 0;25670
 22; 1634.3; 27-JAN-2007 09:45:05; Dark ; 42.5; 1; 9Alp CMA ; -1.44; 11000;occ; 85; 0;25670

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 8; 4294.6; 27-JAN-2007 10:29:25; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;25670
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 11; 5282.6; 27-JAN-2007 10:45:53; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;25670
 12; 5528.1; 27-JAN-2007 10:49:59; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;25670
 13; 5609.1; 27-JAN-2007 10:51:20; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;25670
 14; 5867.4; 27-JAN-2007 10:55:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;25670
 15; 6103.1; 27-JAN-2007 10:59:34; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;25670
 16; 6194.3; 27-JAN-2007 11:01:05; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;25670
 17; 6360.6; 27-JAN-2007 11:03:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25670
 18; 6469.2; 27-JAN-2007 11:05:40; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25670
 19; 6701.4; 27-JAN-2007 11:09:32; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25670
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 21; 6943.5; 27-JAN-2007 11:13:34; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;25670
 22; 7098.4; 27-JAN-2007 11:16:09; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;25670
 23; 7224.1; 27-JAN-2007 11:18:15; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;25670
 24; 7311.1; 27-JAN-2007 11:19:42; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;25670
 25; 7458.3; 27-JAN-2007 11:22:09; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;25670
 26; 7541.1; 27-JAN-2007 11:23:32; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25670
 27; 7670.3; 27-JAN-2007 11:25:41; Dark ; 5.5; 1; 9Alp CMA ; -1.44; 11000;occ; 11; 0;25670

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 5; 2554.1; 27-JAN-2007 11:41:01; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;25671
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 7; 3427.0; 27-JAN-2007 11:55:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25671
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 13; 5528.7; 27-JAN-2007 12:30:35; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25671
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 18; 6360.9; 27-JAN-2007 12:44:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25671
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 24; 7224.4; 27-JAN-2007 12:58:51; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;25671
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 26; 7458.5; 27-JAN-2007 13:02:45; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;25671
 27; 7541.2; 27-JAN-2007 13:04:08; Dark ; 35.5; 179; 240mi2CMA ; 3.03; 24000;occ; 71; 0;25671

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11; 4906.2; 27-JAN-2007 14:00:48; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;25672
12; 5283.7; 27-JAN-2007 14:07:06; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;25672
13; 5529.4; 27-JAN-2007 14:11:12; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;25672
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22; 6944.2; 27-JAN-2007 14:34:46; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;25672
23; 7098.7; 27-JAN-2007 14:37:21; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;25672
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25; 7311.5; 27-JAN-2007 14:40:54; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;25672
26; 7458.7; 27-JAN-2007 14:43:21; Dark ; 3.0; 23; 21Eps CMA ; 1.50; 26000;occ; 6; 0;25672

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 23; 6702.7; 27-JAN-2007 17:51:57; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25674
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 22; 5900.9; 28-JAN-2007 18:47:34; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;25689
 23; 6109.7; 28-JAN-2007 18:51:03; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;25689
 24; 6204.4; 28-JAN-2007 18:52:38; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;25689
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 27; 6843.5; 28-JAN-2007 20:43:53; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;25690

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