

GOMOS Daily Report 22-APR-2008

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	24APR2008 05:32:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22APR2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23APR2008 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)

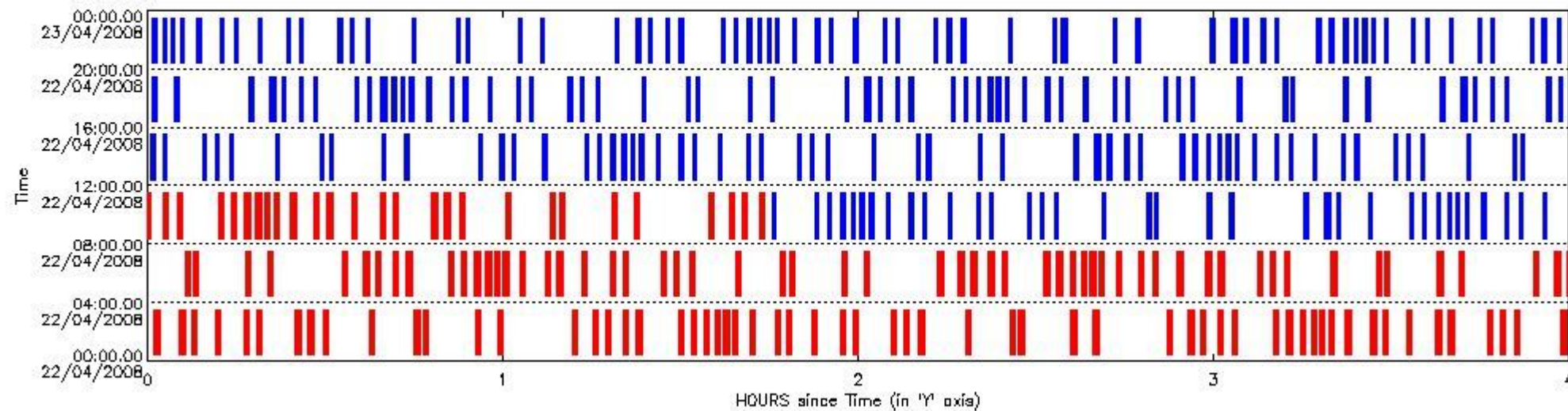
2.1 Level 0 products arrived in PCF (see template [here](#))

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
22-APR-2008 00:01:04	lotCen	123	32120
22-APR-2008 00:05:19	9BetCrv	106	32120
22-APR-2008 00:07:17	7DelCrv	163	32120
22-APR-2008 00:11:25	29GamVir	121	32120
22-APR-2008 00:16:17	94BetLeo	62	32120
22-APR-2008 00:18:24	68DelLeo	96	32120
22-APR-2008 00:24:55	52PsiUMa	174	32120
22-APR-2008 00:27:04	64GamUMa	87	32120
22-APR-2008 00:29:36	50AlpUMa	36	32120
22-APR-2008 00:37:27	1AlpUMi	49	32120
22-APR-2008 00:44:59	37DelCas	110	32120
22-APR-2008 00:46:29	18AlpCas	68	32120
22-APR-2008 00:55:19	53BetPeg	93	32120
22-APR-2008 00:59:03	54AlpPeg	90	32120
22-APR-2008 01:11:35	24AlpPsA	18	32120

22-APR-2008 01:15:04	DSA1035	0	32120
22-APR-2008 01:17:11	AlpGru	31	32120
22-APR-2008 01:20:10	AlpTuc	148	32120
22-APR-2008 01:22:25	AlpPav	45	32121
22-APR-2008 01:29:31	AlpTrA	43	32121
22-APR-2008 01:31:40	BetTrA	134	32121
22-APR-2008 01:33:56	Alp1Cen	4	32121
22-APR-2008 01:35:50	BetCru	20	32121
22-APR-2008 01:37:13	AlpLup	78	32121
22-APR-2008 01:38:48	GamCen	64	32121
22-APR-2008 01:41:40	lotCen	123	32121
22-APR-2008 01:45:55	9BetCrv	106	32121
22-APR-2008 01:47:53	7DelCrv	163	32121
22-APR-2008 01:52:01	29GamVir	121	32121
22-APR-2008 01:56:53	94BetLeo	62	32121
22-APR-2008 01:59:01	68DelLeo	96	32121
22-APR-2008 02:05:31	52PsiUMa	174	32121
22-APR-2008 02:07:40	64GamUMa	87	32121
22-APR-2008 02:10:12	50AlpUMa	36	32121
22-APR-2008 02:18:03	1AlpUMi	49	32121
22-APR-2008 02:25:35	37DelCas	110	32121
22-APR-2008 02:27:05	18AlpCas	68	32121
22-APR-2008 02:35:55	53BetPeg	93	32121
22-APR-2008 02:39:39	54AlpPeg	90	32121
22-APR-2008 02:52:11	24AlpPsA	18	32121
22-APR-2008 02:55:40	DSA1035	0	32121
22-APR-2008 02:57:47	AlpGru	31	32121
22-APR-2008 03:00:47	AlpTuc	148	32121
22-APR-2008 03:03:01	AlpPav	45	32122
22-APR-2008 03:10:07	AlpTrA	43	32122
22-APR-2008 03:12:16	BetTrA	134	32122
22-APR-2008 03:14:32	Alp1Cen	4	32122
22-APR-2008 03:16:26	BetCru	20	32122
22-APR-2008 03:17:50	AlpLup	78	32122
22-APR-2008 03:19:24	GamCen	64	32122
22-APR-2008 03:22:16	lotCen	123	32122
22-APR-2008 03:26:31	9BetCrv	106	32122
22-APR-2008 03:28:29	7DelCrv	163	32122
22-APR-2008 03:32:37	29GamVir	121	32122
22-APR-2008 03:37:29	94BetLeo	62	32122
22-APR-2008 03:39:37	68DelLeo	96	32122
22-APR-2008 03:46:07	52PsiUMa	174	32122
22-APR-2008 03:48:16	64GamUMa	87	32122
22-APR-2008 03:50:48	50AlpUMa	36	32122
22-APR-2008 03:58:39	1AlpUMi	49	32122
22-APR-2008 04:06:11	37DelCas	110	32122
22-APR-2008 04:07:41	18AlpCas	68	32122
22-APR-2008 04:16:31	53BetPeg	93	32122
22-APR-2008 04:20:15	54AlpPeg	90	32122
22-APR-2008 04:32:47	24AlpPsA	18	32122
22-APR-2008 04:36:16	DSA1035	0	32122
22-APR-2008 04:38:24	AlpGru	31	32122
22-APR-2008 04:41:23	AlpTuc	148	32122
22-APR-2008 04:43:38	AlpPav	45	32123
22-APR-2008 04:50:44	AlpTrA	43	32123
22-APR-2008 04:52:53	BetTrA	134	32123
22-APR-2008 04:55:08	Alp1Cen	4	32123
22-APR-2008 04:57:02	BetCru	20	32123
22-APR-2008 04:58:26	AlpLup	78	32123

22-APR-2008 05:00:00	GamCen	64	32123
22-APR-2008 05:02:52	lotCen	123	32123
22-APR-2008 05:07:07	9BetCrv	106	32123
22-APR-2008 05:09:05	7DelCrv	163	32123
22-APR-2008 05:13:13	29GamVir	121	32123
22-APR-2008 05:18:05	94BetLeo	62	32123
22-APR-2008 05:20:13	68DelLeo	96	32123
22-APR-2008 05:26:44	52PsiUMa	174	32123
22-APR-2008 05:28:52	64GamUMa	87	32123
22-APR-2008 05:31:24	50AlpUMa	36	32123
22-APR-2008 05:39:15	1AlpUMi	49	32123
22-APR-2008 05:46:48	37DelCas	110	32123
22-APR-2008 05:48:17	18AlpCas	68	32123
22-APR-2008 05:57:08	53BetPeg	93	32123
22-APR-2008 06:00:52	54AlpPeg	90	32123
22-APR-2008 06:13:24	24AlpPsA	18	32123
22-APR-2008 06:16:52	DSA1035	0	32123
22-APR-2008 06:19:00	AlpGru	31	32123
22-APR-2008 06:21:59	AlpTuc	148	32123
22-APR-2008 06:24:14	AlpPav	45	32124
22-APR-2008 06:31:20	AlpTrA	43	32124
22-APR-2008 06:33:29	BetTrA	134	32124
22-APR-2008 06:35:44	Alp1Cen	4	32124
22-APR-2008 06:37:38	BetCru	20	32124
22-APR-2008 06:39:02	AlpLup	78	32124
22-APR-2008 06:40:36	GamCen	64	32124
22-APR-2008 06:43:29	lotCen	123	32124
22-APR-2008 06:47:19	46GamHya	169	32124
22-APR-2008 06:49:41	7DelCrv	163	32124
22-APR-2008 06:53:49	29GamVir	121	32124
22-APR-2008 06:58:41	94BetLeo	62	32124
22-APR-2008 07:00:49	68DelLeo	96	32124
22-APR-2008 07:07:20	52PsiUMa	174	32124
22-APR-2008 07:09:28	64GamUMa	87	32124
22-APR-2008 07:12:00	50AlpUMa	36	32124
22-APR-2008 07:19:51	1AlpUMi	49	32124
22-APR-2008 07:27:24	37DelCas	110	32124
22-APR-2008 07:28:53	18AlpCas	68	32124
22-APR-2008 07:37:44	53BetPeg	93	32124
22-APR-2008 07:41:28	54AlpPeg	90	32124
22-APR-2008 07:54:00	24AlpPsA	18	32124
22-APR-2008 07:57:28	DSA1035	0	32124
22-APR-2008 07:59:36	AlpGru	31	32124
22-APR-2008 08:02:35	AlpTuc	148	32124
22-APR-2008 08:04:51	AlpPav	45	32125
22-APR-2008 08:11:56	AlpTrA	43	32125
22-APR-2008 08:14:06	BetTrA	134	32125
22-APR-2008 08:16:21	Alp1Cen	4	32125
22-APR-2008 08:18:14	BetCru	20	32125
22-APR-2008 08:19:39	AlpLup	78	32125
22-APR-2008 08:21:13	GamCen	64	32125
22-APR-2008 08:24:05	lotCen	123	32125
22-APR-2008 08:27:55	46GamHya	169	32125
22-APR-2008 08:30:17	7DelCrv	163	32125
22-APR-2008 08:34:25	29GamVir	121	32125
22-APR-2008 08:39:17	94BetLeo	62	32125
22-APR-2008 08:41:25	68DelLeo	96	32125
22-APR-2008 08:47:56	52PsiUMa	174	32125
22-APR-2008 08:50:04	64GamUMa	87	32125

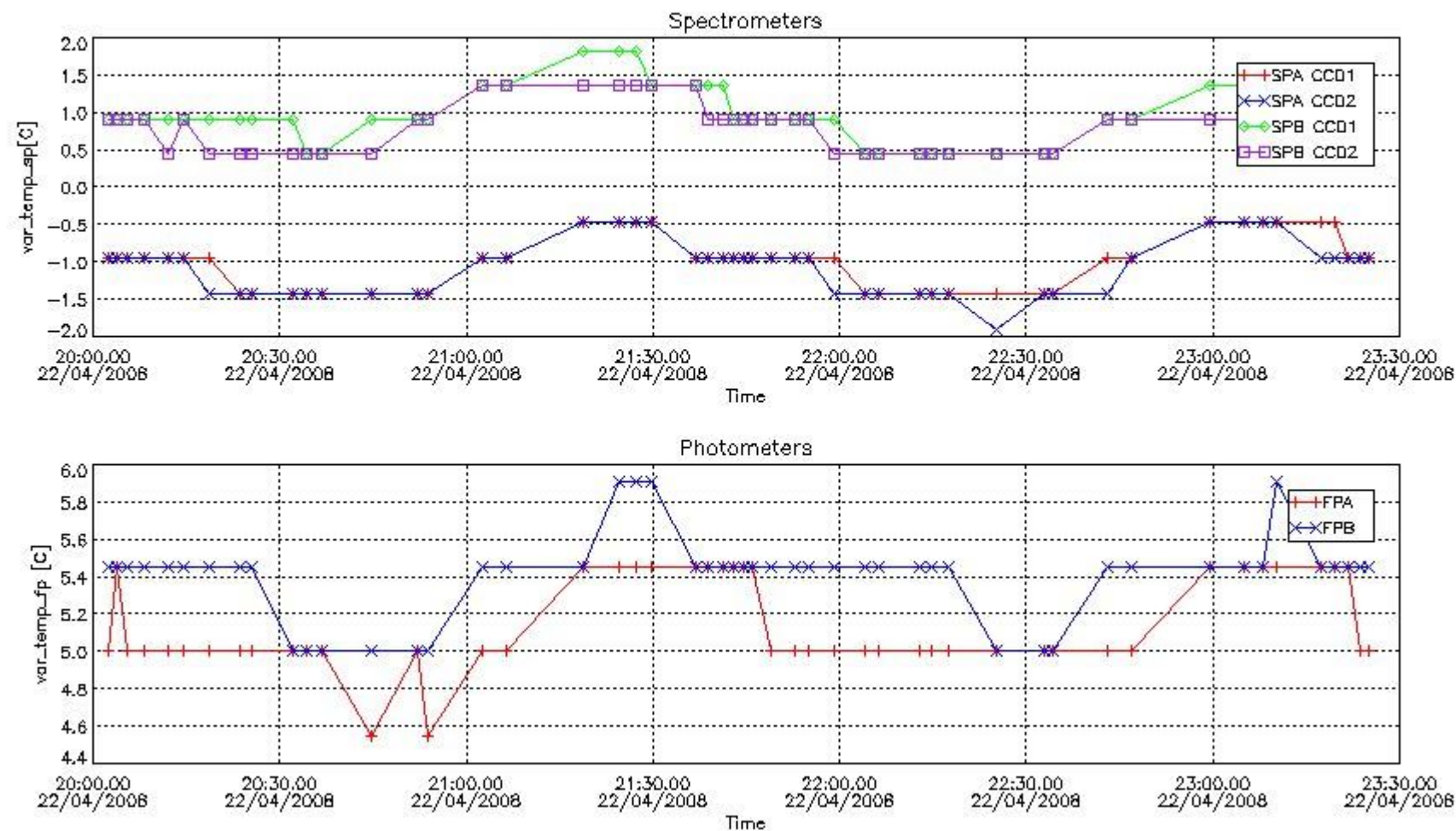
22-APR-2008 08:52:36	50AlpUMa	36	32125
22-APR-2008 09:00:27	1AlpUMi	49	32125
22-APR-2008 09:08:00	37DelCas	110	32125
22-APR-2008 09:09:29	18AlpCas	68	32125
22-APR-2008 09:18:20	53BetPeg	93	32125
22-APR-2008 09:22:04	54AlpPeg	90	32125
22-APR-2008 09:34:36	24AlpPsA	18	32125
22-APR-2008 09:38:04	DSA1035	0	32125
22-APR-2008 09:40:13	AlpGru	31	32125
22-APR-2008 09:43:11	AlpTuc	148	32125

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_1PNPDE20080422_200227_000000422068_00014_32132_3211.N1	22-APR-2008 20:02:27	Straylight	42.000	20	Bet Cru	1.2530	30000.	84	32132	Yes
2	GOM_TRA_1PNPDE20080422_200353_000000402068_00014_32132_3212.N1	22-APR-2008 20:03:53	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	32132	No
3	GOM_TRA_1PNPDE20080422_200526_000000362068_00014_32132_3213.N1	22-APR-2008 20:05:26	Straylight	36.000	64	Gam Cen	2.2000	10600.	72	32132	No
4	GOM_TRA_1PNPDE20080422_200818_000000382068_00014_32132_3214.N1	22-APR-2008 20:08:18	Straylight	38.000	123	lot Cen	2.7500	10200.	76	32132	No
5	GOM_TRA_1PNPDE20080422_201209_000000412068_00014_32132_3215.N1	22-APR-2008 20:12:09	Tw_i_and_stray	40.500	169	46Gam Hya	2.9910	4700.0	81	32132	No
6	GOM_TRA_1PNPDE20080422_201430_000000372068_00014_32132_3216.N1	22-APR-2008 20:14:30	Bright	37.000	163	7Del Crv	2.9450	11000.	74	32132	No
7	GOM_TRA_1PNPDE20080422_201838_000000372068_00014_32132_3217.N1	22-APR-2008 20:18:38	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	32132	No
8	GOM_TRA_1PNPDE20080422_202331_000000352068_00014_32132_3218.N1	22-APR-2008 20:23:31	Bright	35.000	62	94Bet Leo	2.1360	9700.0	70	32132	No
9	GOM_TRA_1PNPDE20080422_202539_000000362068_00014_32132_3219.N1	22-APR-2008 20:25:39	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	32132	No
10	GOM_TRA_1PNPDE20080422_203210_000000362068_00014_32132_3220.N1	22-APR-2008 20:32:10	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	32132	No
11	GOM_TRA_1PNPDE20080422_203417_000000352068_00014_32132_3221.N1	22-APR-2008 20:34:17	Bright	34.500	87	64Gam UMa	2.4330	11000.	69	32132	No
12	GOM_TRA_1PNPDE20080422_203649_000000382068_00014_32132_3222.N1	22-APR-2008 20:36:49	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	32132	No
13	GOM_TRA_1PNPDE20080422_204439_000000362068_00014_32132_3223.N1	22-APR-2008 20:44:39	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32132	No
14	GOM_TRA_1PNPDE20080422_205213_000000332068_00014_32132_3224.N1	22-APR-2008 20:52:13	Bright	32.500	110	37Del Cas	2.6780	8900.0	65	32132	No
15	GOM_TRA_1PNPDE20080422_205342_000000352068_00014_32132_3225.N1	22-APR-2008 20:53:42	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	32132	No
16	GOM_TRA_1PNPDE20080422_210233_000000302068_00014_32132_3226.N1	22-APR-2008 21:02:33	Bright	30.000	93	53Bet Peg	2.5200	3100.0	60	32132	No
17	GOM_TRA_1PNPDE20080422_210618_000000422068_00014_32132_3227.N1	22-APR-2008 21:06:18	Tw_i_and_stray	41.500	90	54Alp Peg	2.4870	11000.	83	32132	No
18	GOM_TRA_1PNPDE20080422_211850_000000422068_00014_32132_3350.N1	22-APR-2008 21:18:50	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	32132	No
19	GOM_TRA_1PNPDE20080422_212428_000000422068_00014_32132_3351.N1	22-APR-2008 21:24:28	Dark	41.500	31	Alp Gru	1.7340	15200.	83	32132	No
20	GOM_TRA_1PNPDE20080422_212725_000000382068_00014_32132_3352.N1	22-APR-2008 21:27:25	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32132	No
21	GOM_TRA_1PNPDE20080422_212943_000000392068_00015_32133_3353.N1	22-APR-2008 21:29:43	Dark	38.500	45	Alp Pav	1.9400	26000.	77	32133	No
22	GOM_TRA_1PNPDE20080422_213647_000000402068_00015_32133_3354.N1	22-APR-2008 21:36:47	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	32133	No
23	GOM_TRA_1PNPDE20080422_213857_000000382068_00015_32133_3355.N1	22-APR-2008 21:38:57	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	32133	No
24	GOM_TRA_1PNPDE20080422_214111_000000502068_00015_32133_3356.N1	22-APR-2008 21:41:11	Straylight	49.500	4	Alp1Cen	-0.010000	5800.0	99	32133	No
25	GOM_TRA_1PNPDE20080422_214303_000000372068_00015_32133_3357.N1	22-APR-2008 21:43:03	Straylight	36.500	20	Bet Cru	1.2530	30000.	73	32133	No
26	GOM_TRA_1PNPDE20080422_214430_000000402068_00015_32133_3358.N1	22-APR-2008 21:44:30	Straylight	39.500	78	Alp Lup	2.3040	28000.	79	32133	No
27	GOM_TRA_1PNPDE20080422_214602_000000372068_00015_32133_3359.N1	22-APR-2008 21:46:02	Straylight	36.500	64	Gam Cen	2.2000	10600.	73	32133	No
28	GOM_TRA_1PNPDE20080422_214854_000000412068_00015_32133_3360.N1	22-APR-2008 21:48:54	Straylight	40.500	123	lot Cen	2.7500	10200.	81	32133	No
29	GOM_TRA_1PNPDE20080422_215245_000000412068_00015_32133_3361.N1	22-APR-2008 21:52:45	Tw_i_and_stray	40.500	169	46Gam Hya	2.9910	4700.0	81	32133	No
30	GOM_TRA_1PNPDE20080422_215506_000000372068_00015_32133_3362.N1	22-APR-2008 21:55:06	Bright	37.000	163	7Del Crv	2.9450	11000.	74	32133	No
31	GOM_TRA_1PNPDE20080422_215914_000000362068_00015_32133_3363.N1	22-APR-2008 21:59:14	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	32133	No
32	GOM_TRA_1PNPDE20080422_220407_000000362068_00015_32133_3364.N1	22-APR-2008 22:04:07	Bright	35.500	62	94Bet Leo	2.1360	9700.0	71	32133	No
33	GOM_TRA_1PNPDE20080422_220616_000000362068_00015_32133_3365.N1	22-APR-2008 22:06:16	Bright	35.500	96	68Del Leo	2.5600	9300.0	71	32133	No
34	GOM_TRA_1PNPDE20080422_221246_000000362068_00015_32133_3366.N1	22-APR-2008 22:12:46	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	32133	No
35	GOM_TRA_1PNPDE20080422_221452_000000522068_00015_32133_3367.N1	22-APR-2008 22:14:52	Bright	52.000	87	64Gam UMa	2.4330	11000.	104	32133	No
36	GOM_TRA_1PNPDE20080422_221725_000000382068_00015_32133_3368.N1	22-APR-2008 22:17:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	32133	No
37	GOM_TRA_1PNPDE20080422_222515_000000362068_00015_32133_3369.N1	22-APR-2008 22:25:15	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	32133	No
38	GOM_TRA_1PNPDE20080422_223249_000000342068_00015_32133_3370.N1	22-APR-2008 22:32:49	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	32133	No
39	GOM_TRA_1PNPDE20080422_223418_000000522068_00015_32133_3371.N1	22-APR-2008 22:34:18	Bright	52.000	68	18Alp Cas	2.2250	4500.0	104	32133	No
40	GOM_TRA_1PNPDE20080422_224309_000000302068_00015_32133_3372.N1	22-APR-2008 22:43:09	Bright	30.000	93	53Bet Peg	2.5200	3100.0	60	32133	No
41	GOM_TRA_1PNPDE20080422_224654_000000422068_00015_32133_3373.N1	22-APR-2008 22:46:54	Tw_i_and_stray	41.500	90	54Alp Peg	2.4870	11000.	83	32133	No
42	GOM_TRA_1PNPDE20080422_225927_000000412068_00015_32133_3501.N1	22-APR-2008 22:59:27	Dark	40.500	18	24Alp PsA	1.1660	9700.0	81	32133	No
43	GOM_TRA_1PNPDE20080422_230504_000000392068_00015_32133_3502.N1	22-APR-2008 23:05:04	Dark	38.500	31	Alp Gru	1.7340	15200.	77	32133	No
44	GOM_TRA_1PNPDE20080422_230801_000000382068_00015_32133_3503.N1	22-APR-2008 23:08:01	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32133	No

45	GOM_TRA_1PNPDE20080422_231020_000000402068_00016_32134_3504.N1	22-APR-2008 23:10:20	Dark	39.500	45	Alp Pav	1.9400	26000.	79	32134	No
46	GOM_TRA_1PNPDE20080422_231723_000000382068_00016_32134_3505.N1	22-APR-2008 23:17:23	Dark	38.000	43	Alp TrA	1.9100	4250.0	76	32134	No
47	GOM_TRA_1PNPDE20080422_231933_000000382068_00016_32134_3506.N1	22-APR-2008 23:19:33	Straylight	37.500	134	Bet TrA	2.8100	6600.0	75	32134	No
48	GOM_TRA_1PNPDE20080422_232147_000000532068_00016_32134_3507.N1	22-APR-2008 23:21:47	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	32134	No
49	GOM_TRA_1PNPDE20080422_232339_000000442068_00016_32134_3508.N1	22-APR-2008 23:23:39	Straylight	44.000	20	Bet Cru	1.2530	30000.	88	32134	No
50	GOM_TRA_1PNPDE20080422_232506_000000432068_00016_32134_3509.N1	22-APR-2008 23:25:06	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	32134	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).

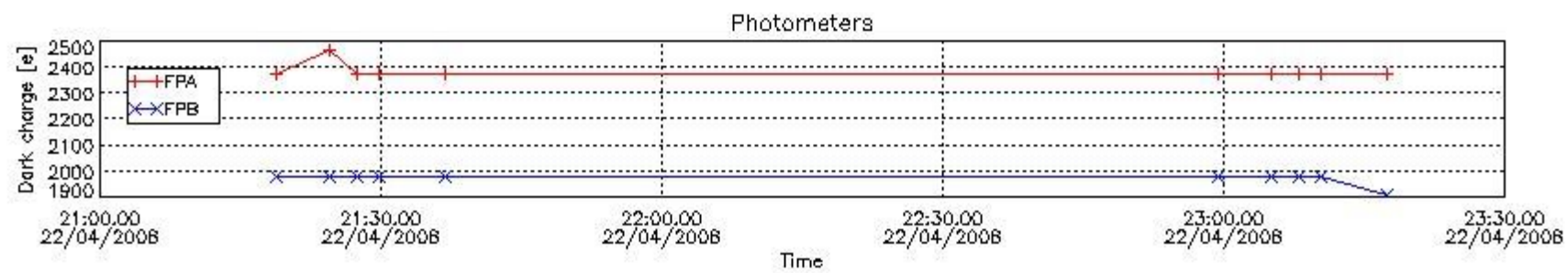
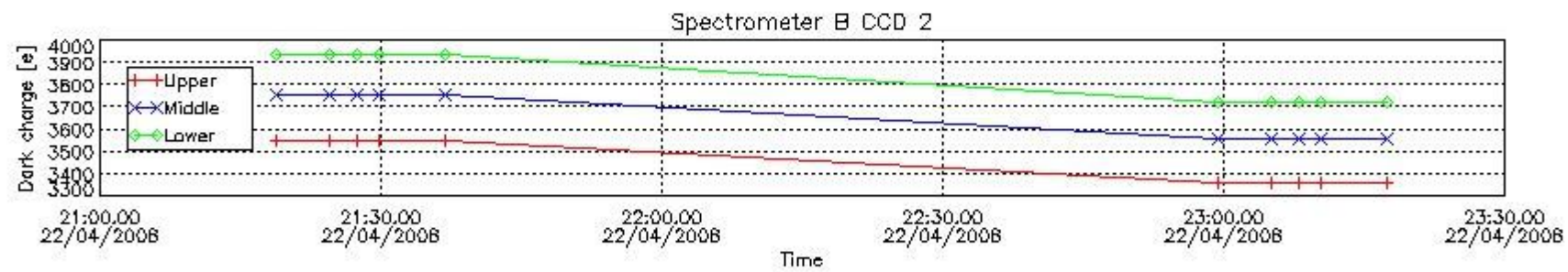
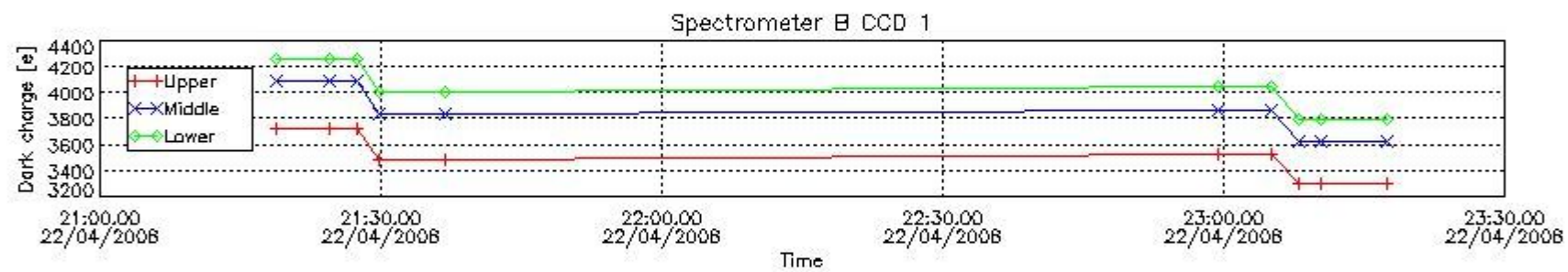
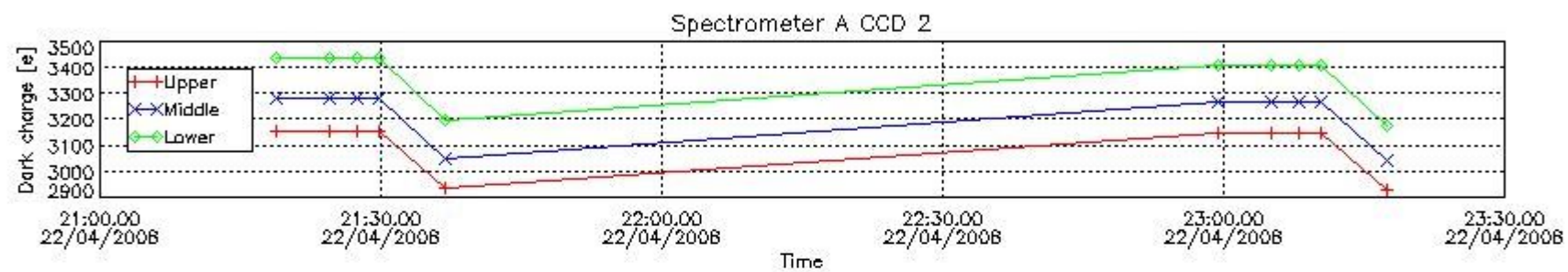
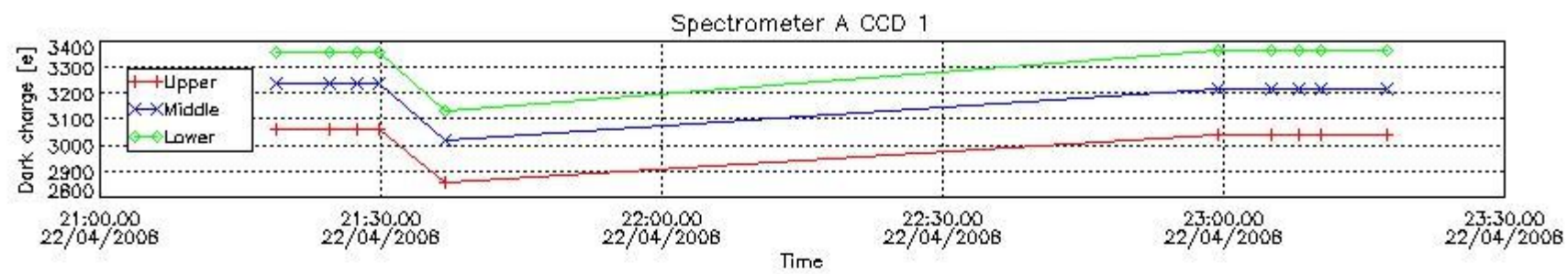
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20080422_200227_000000422068_00014_32132_3211.N1	DC map with no T dep.
GOM_TRA_1PNPDE20080422_200353_000000402068_00014_32132_3212.N1	DC map used
GOM_TRA_1PNPDE20080422_200526_000000362068_00014_32132_3213.N1	DC map used
GOM_TRA_1PNPDE20080422_200818_000000382068_00014_32132_3214.N1	DC map used

GOM_TRA_1PNPDE20080422_201209_000000412068_00014_32132_3215.N1	DC map used
GOM_TRA_1PNPDE20080422_201430_000000372068_00014_32132_3216.N1	DC map used
GOM_TRA_1PNPDE20080422_201838_000000372068_00014_32132_3217.N1	DC map used
GOM_TRA_1PNPDE20080422_202331_000000352068_00014_32132_3218.N1	DC map used
GOM_TRA_1PNPDE20080422_202539_000000362068_00014_32132_3219.N1	DC map used
GOM_TRA_1PNPDE20080422_203210_000000362068_00014_32132_3220.N1	DC map used
GOM_TRA_1PNPDE20080422_203417_000000352068_00014_32132_3221.N1	DC map used
GOM_TRA_1PNPDE20080422_203649_000000382068_00014_32132_3222.N1	DC map used
GOM_TRA_1PNPDE20080422_204439_000000362068_00014_32132_3223.N1	DC map used
GOM_TRA_1PNPDE20080422_205213_000000332068_00014_32132_3224.N1	DC map used
GOM_TRA_1PNPDE20080422_205342_000000352068_00014_32132_3225.N1	DC map used
GOM_TRA_1PNPDE20080422_210233_000000302068_00014_32132_3226.N1	DC map used
GOM_TRA_1PNPDE20080422_210618_000000422068_00014_32132_3227.N1	DC map used

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



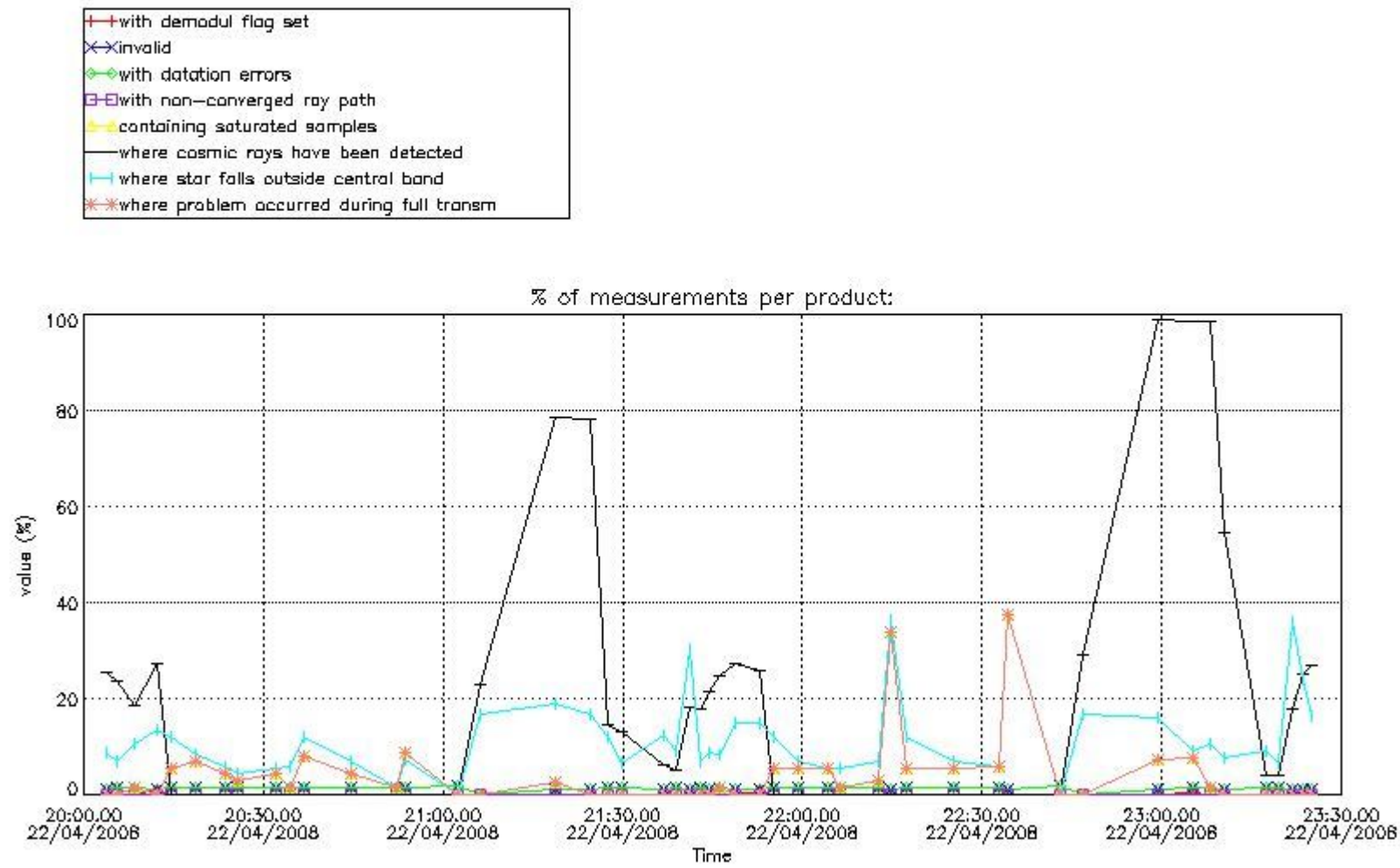
5. Demodulation flag and quality information monitoring

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.

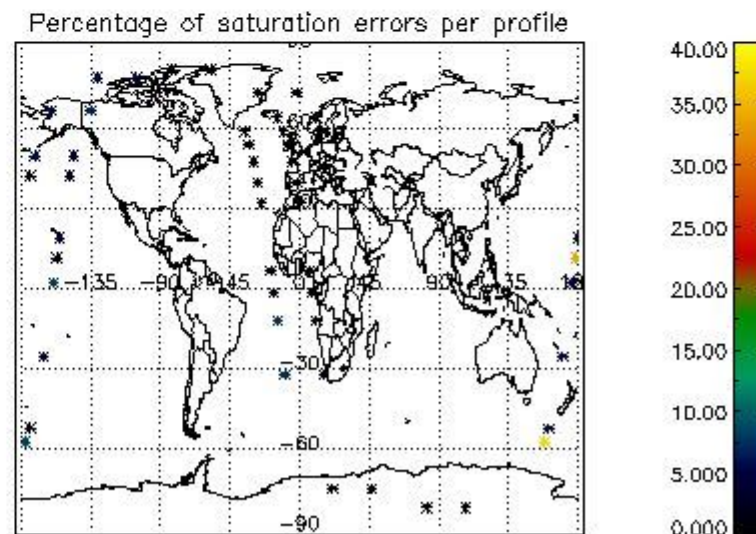
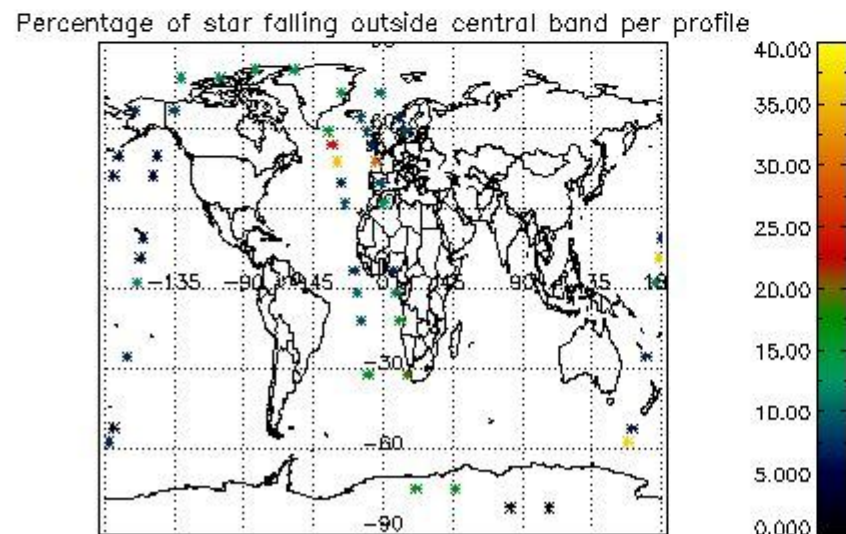
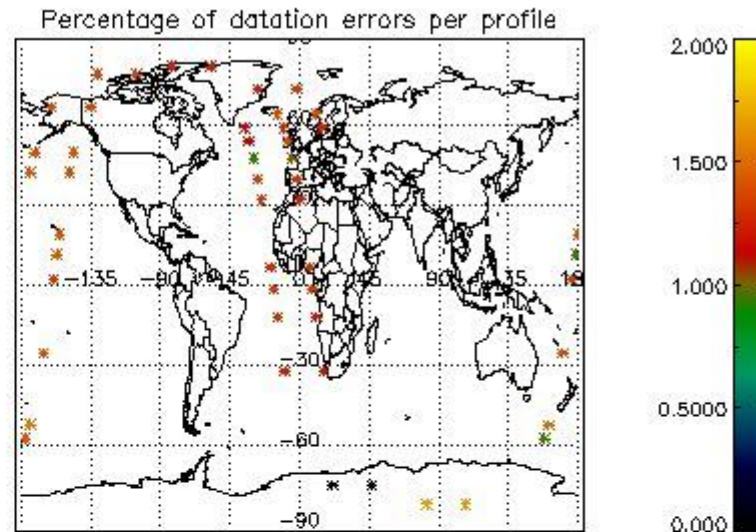
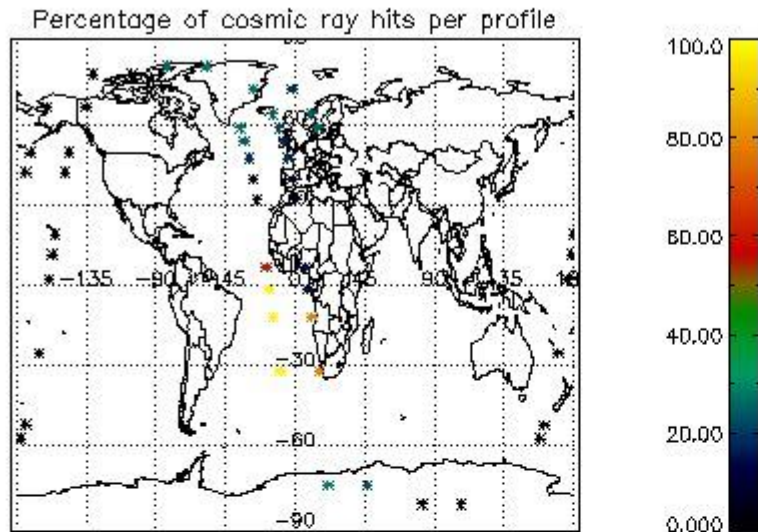
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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)



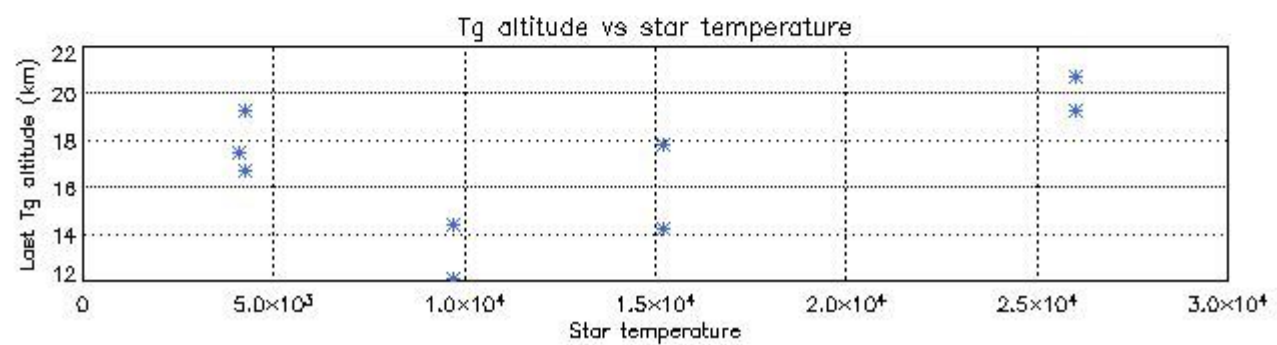
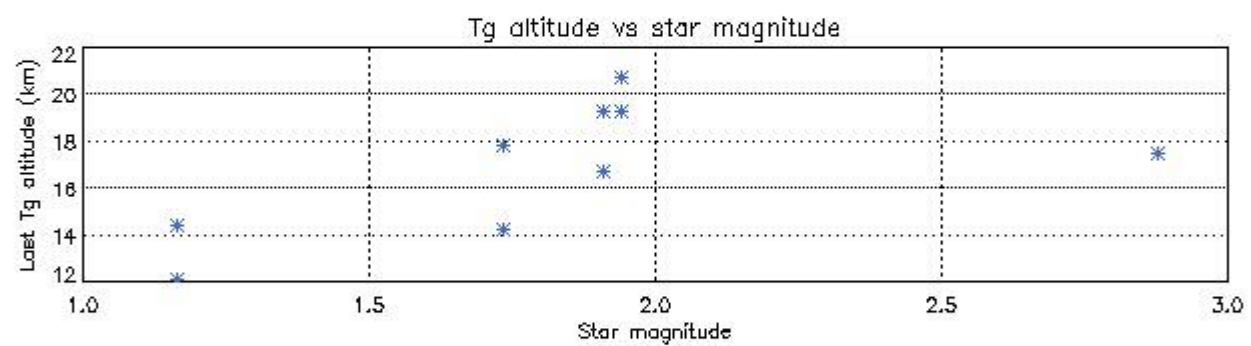
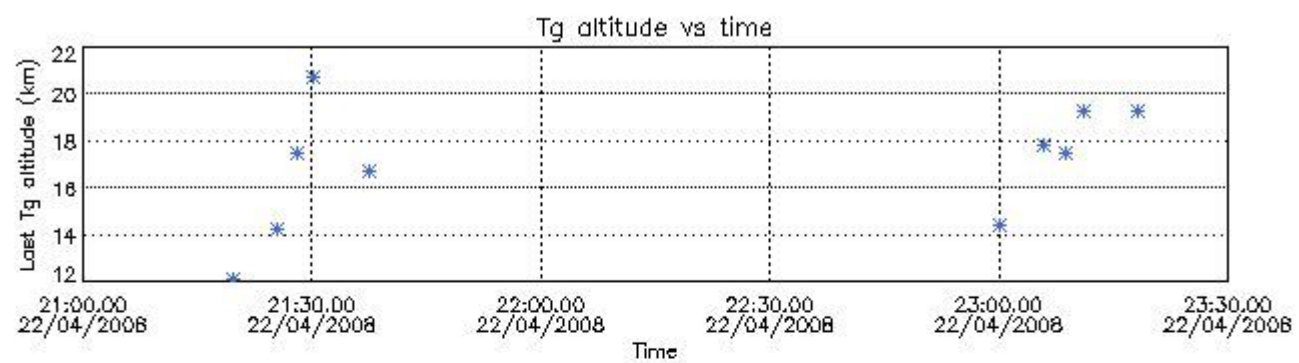
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.938	20.824	NaN
St. deviation:	2.6658	8.1820	NaN
Maximum:	20.709	39.403	NaN
Minimum:	12.085	3.3545	NaN
Number of data:	10.000	22.000	NaN

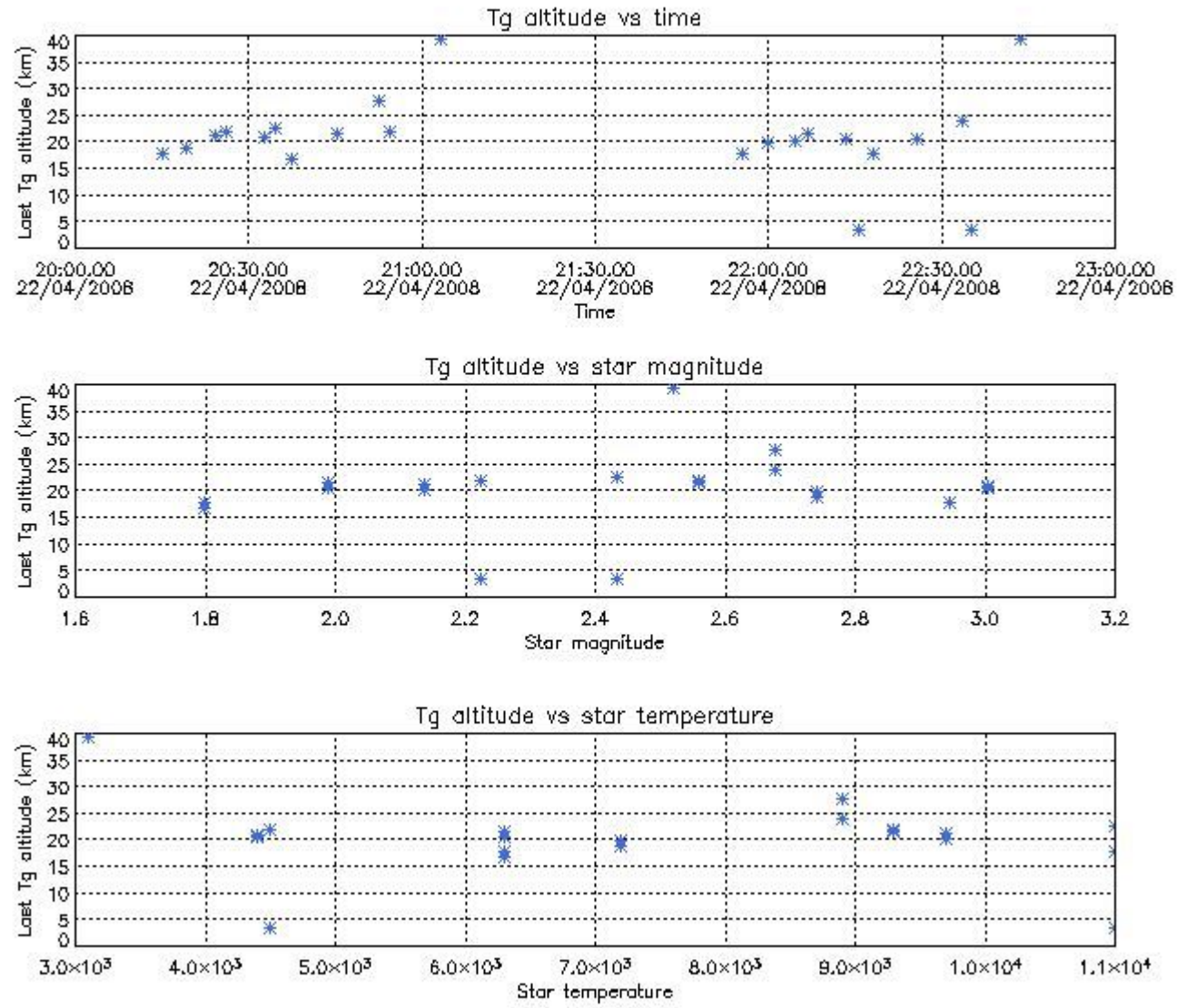
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

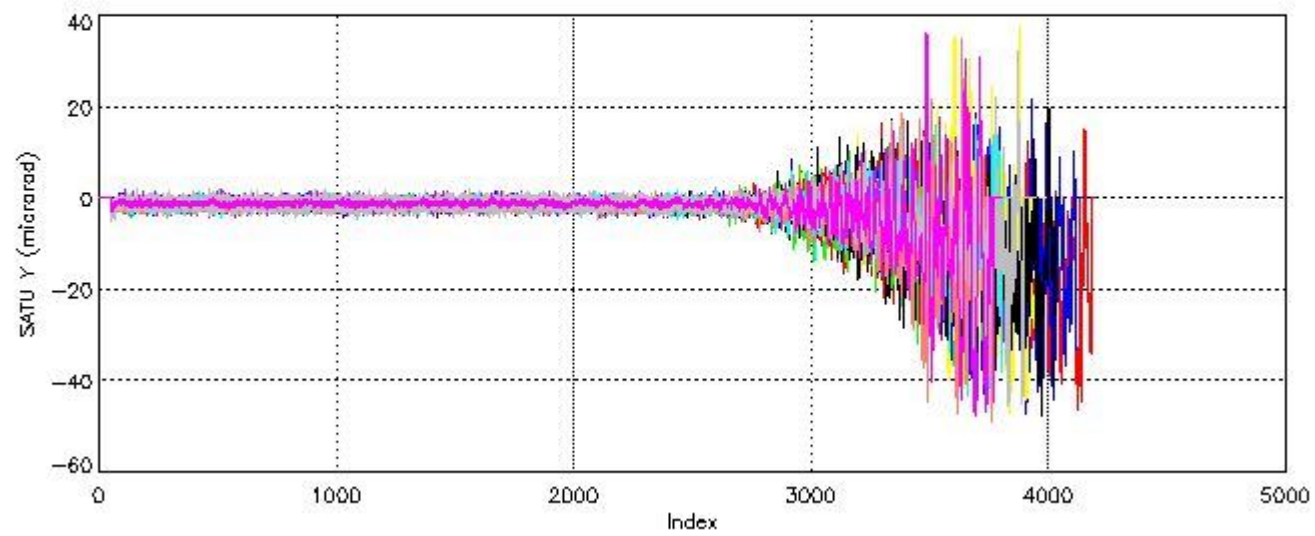
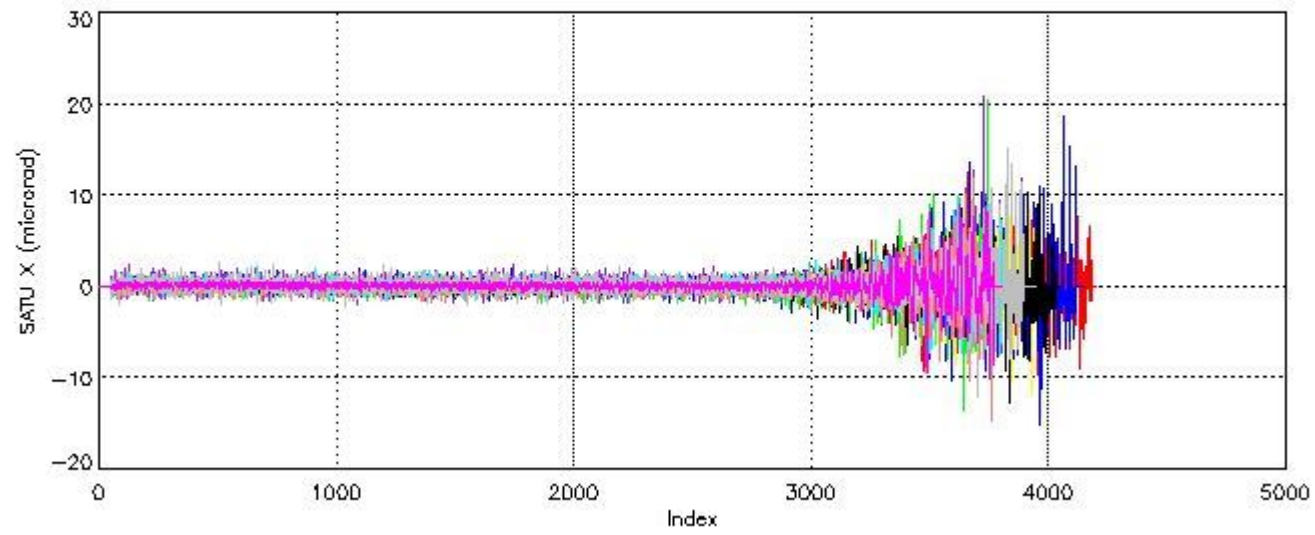


7. Star Acquisition and Tracking Unit (SATU)

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 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:	0.034899	-1.3828	-0.053914	-1.4218
St. deviation:	0.43122	0.90301	0.83551	1.3180
Maximum:	2.5000	1.9000	5.5000	5.4000
Minimum:	-2.1000	-5.2000	-5.8000	-8.5000

Number of data:	8600.0	8600.0	17750.	17750.
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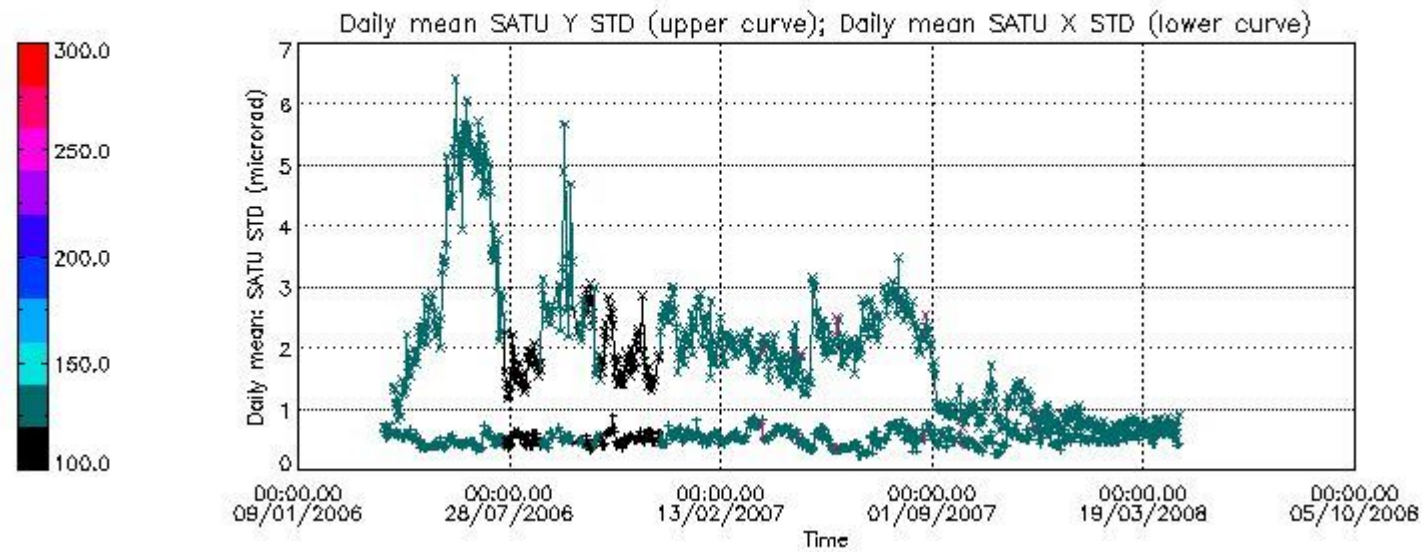
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

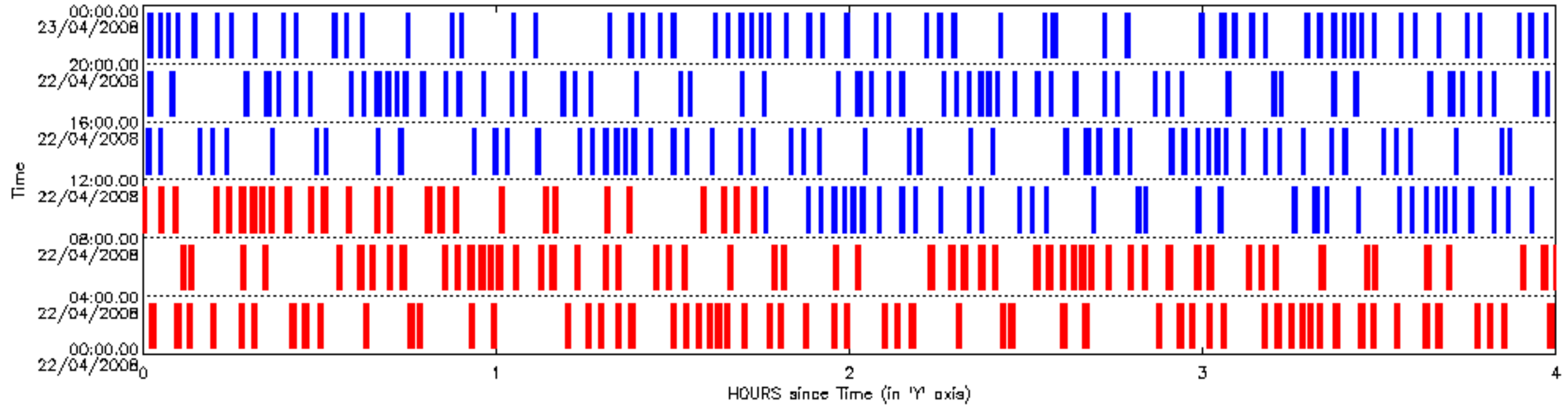
Lower curve: STD of SATU X axis

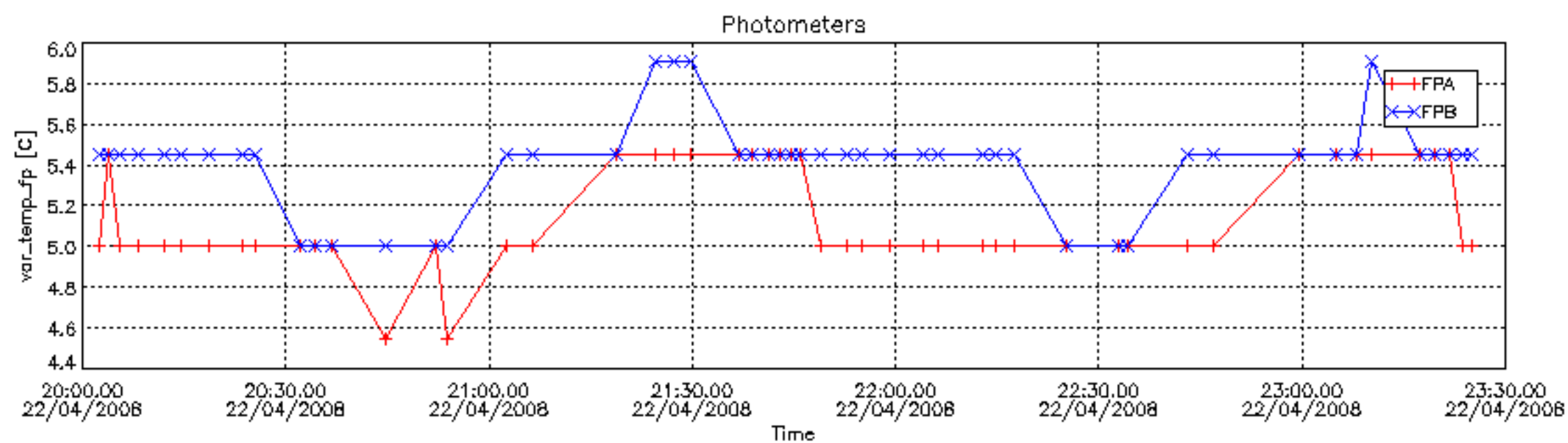
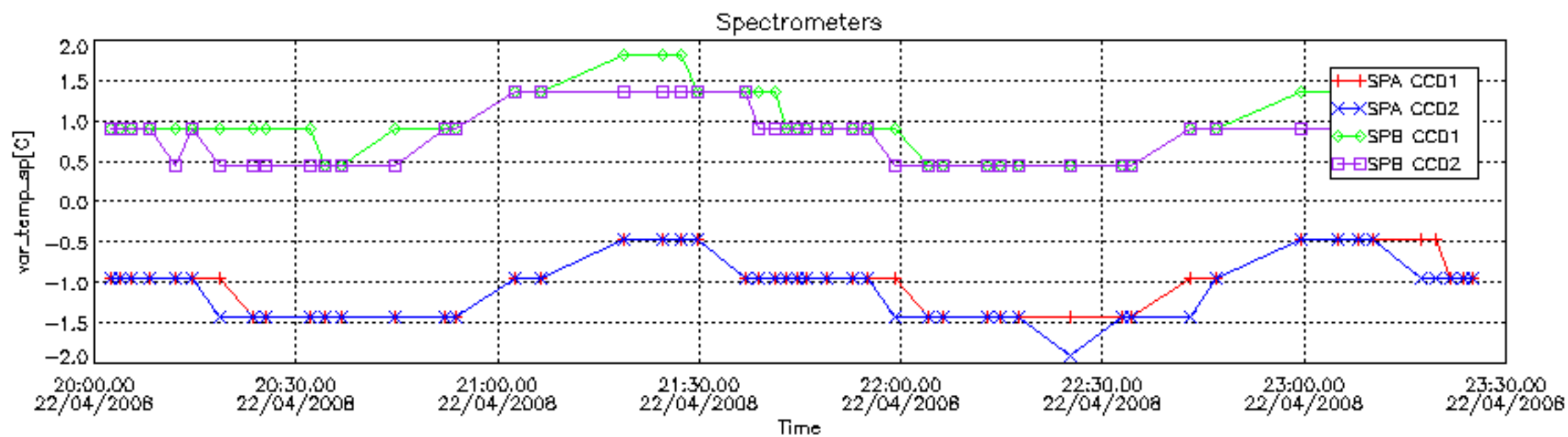


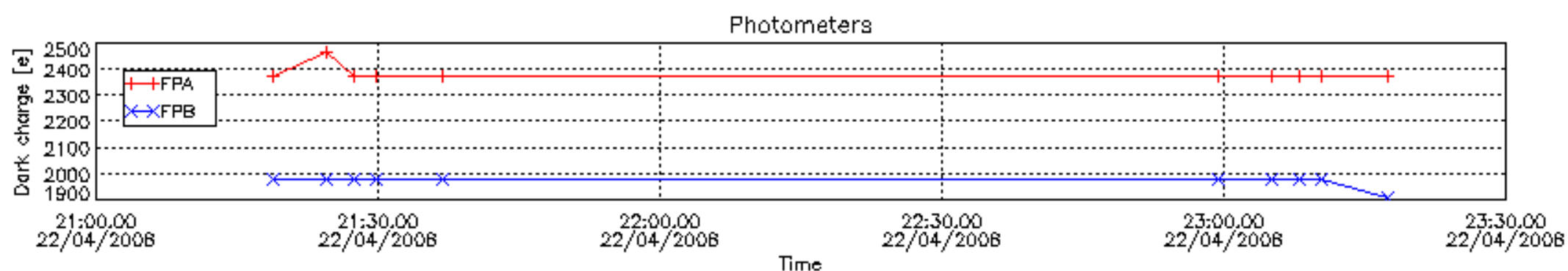
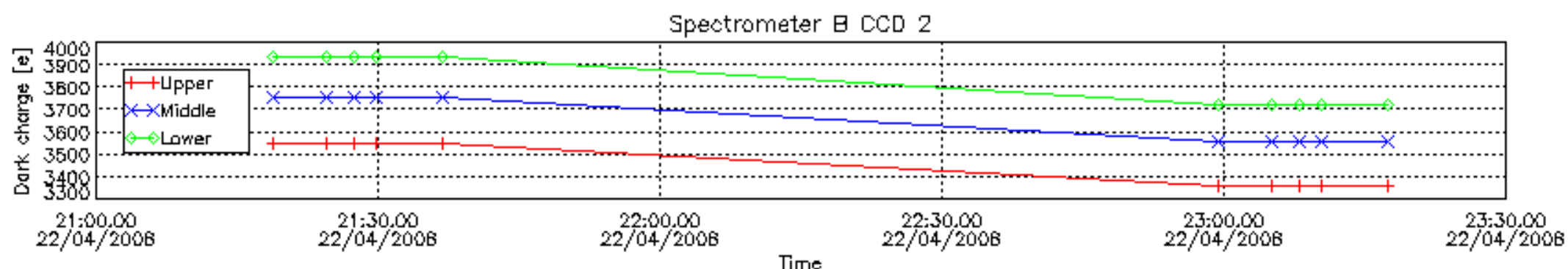
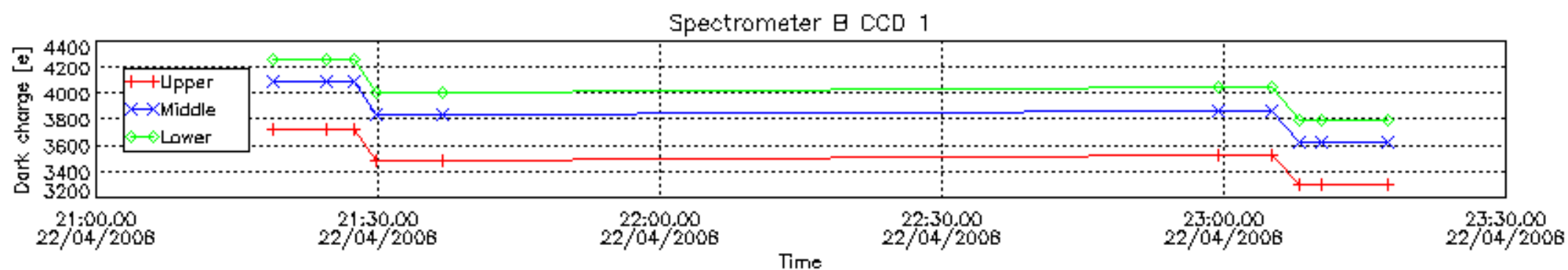
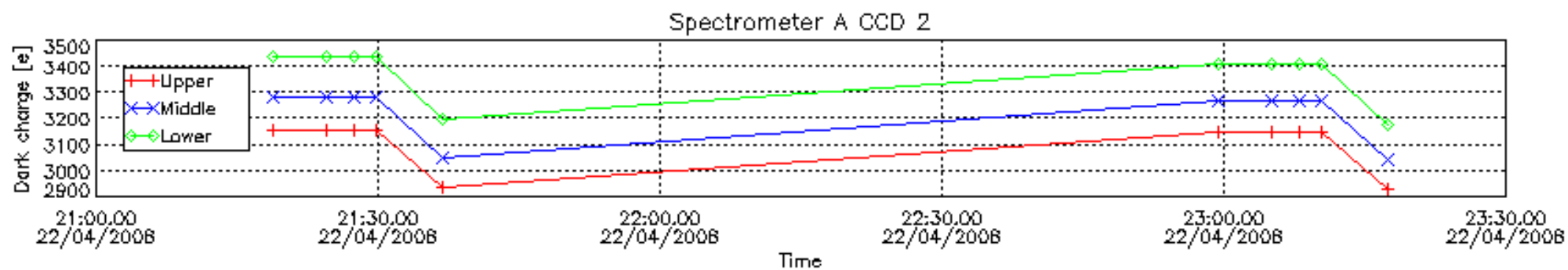
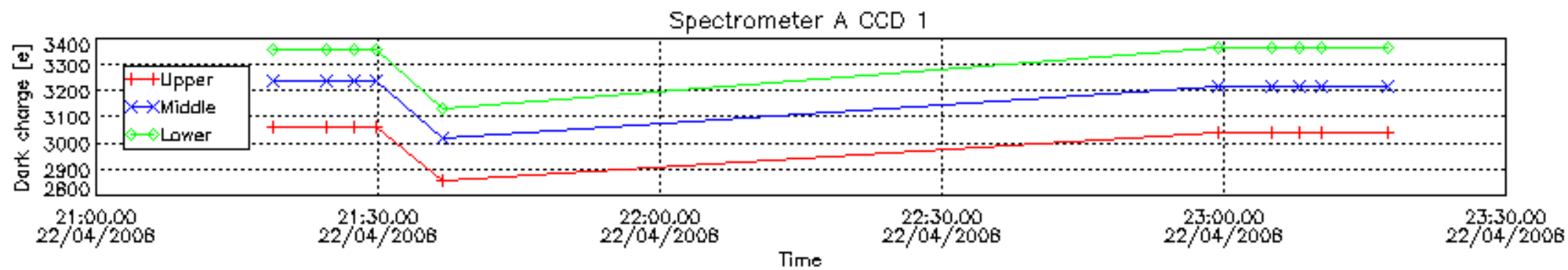
8. Auxiliary Data Files used for the production reported in section 2.4

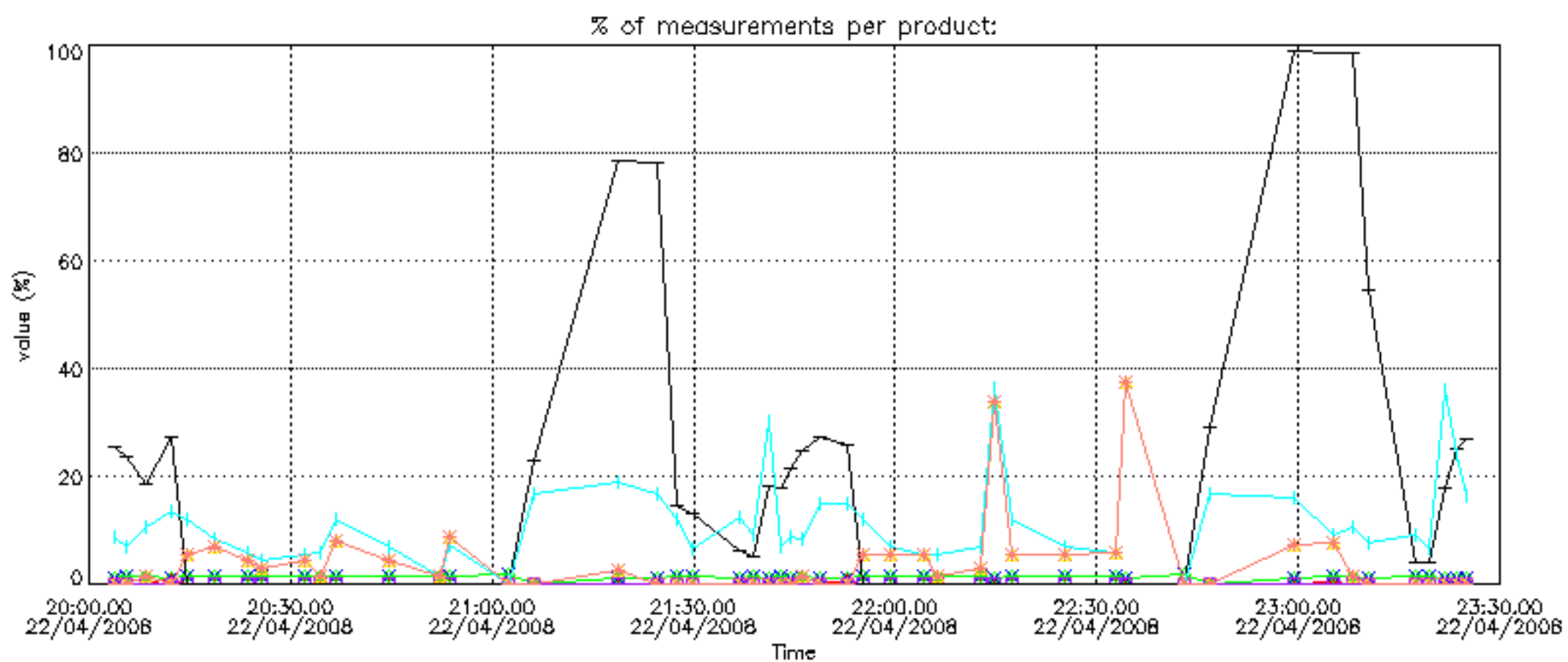
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-APR-2008 20:02:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080408_074258_20080406_000000_20100101_000000	1	22-APR-2008 20:02:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-APR-2008 20:02:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-APR-2008 20:02:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-APR-2008 20:02:27
ECMWF_FILE	AUX_ECF_AXNECM20080422_072113_20080422_150000_20080423_030000	1	22-APR-2008 20:02:27
ECMWF_FILE	AUX_ECF_AXNECM20080422_072113_20080422_210000_20080423_090000	18	22-APR-2008 21:18:50
OPTIONAL_ECMWF_FILE	MISSING	1	22-APR-2008 20:02:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080422_200011_000038262068_00014_32132_5385.N1	1	22-APR-2008 20:02:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080422_210915_000060572068_00014_32132_5386.N1	42	22-APR-2008 22:59:27

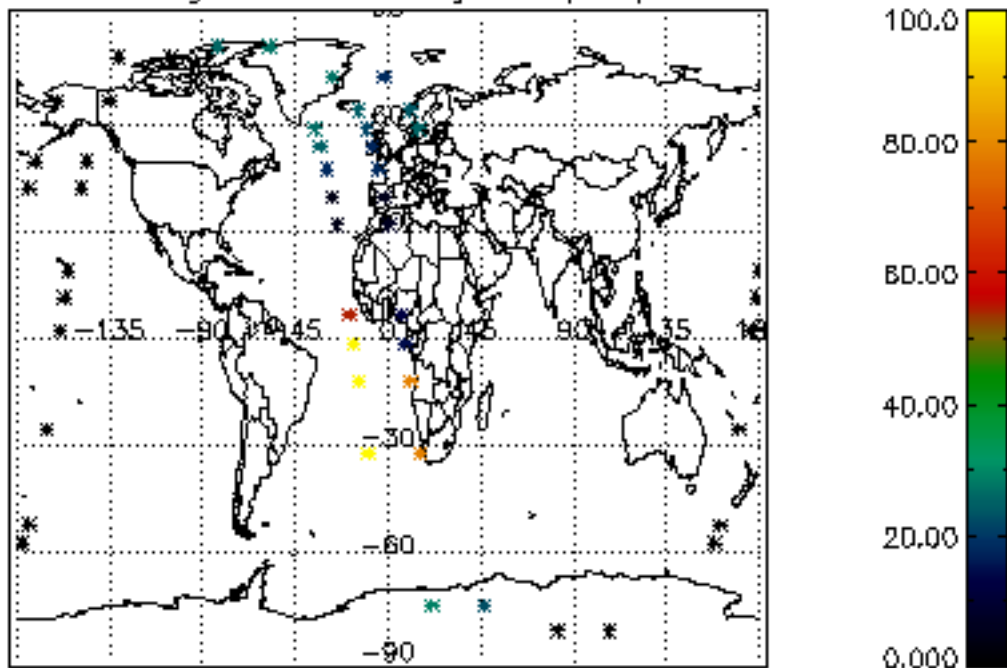




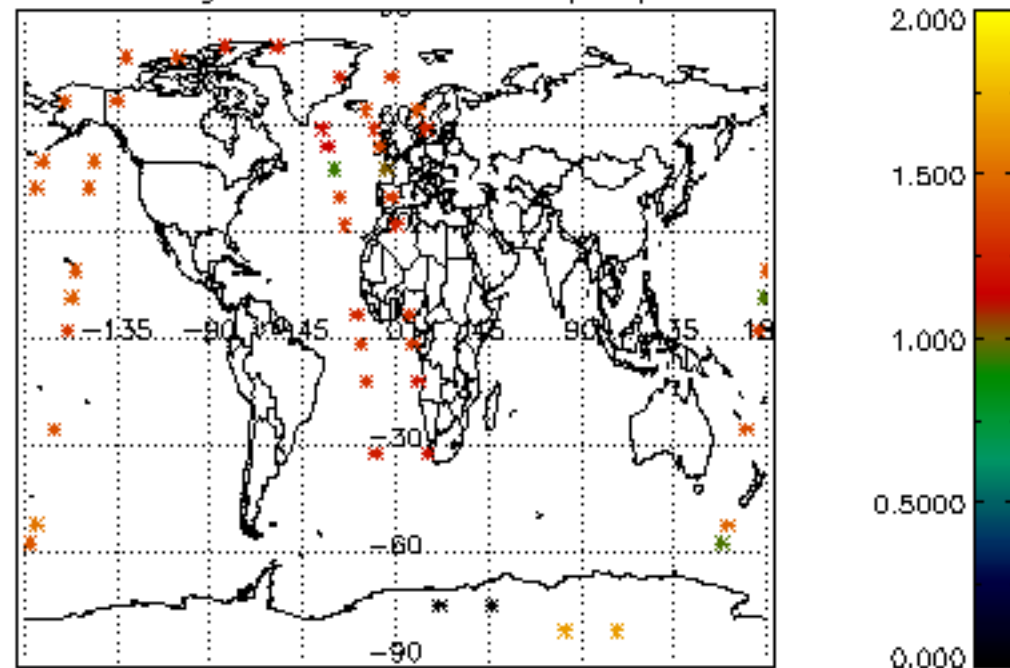




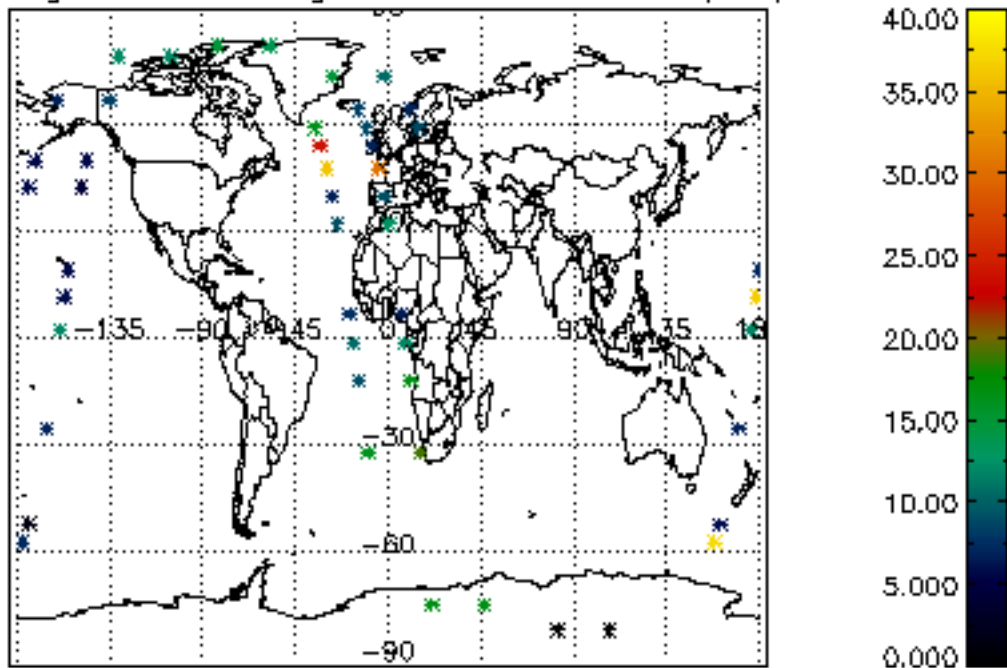
Percentage of cosmic ray hits per profile



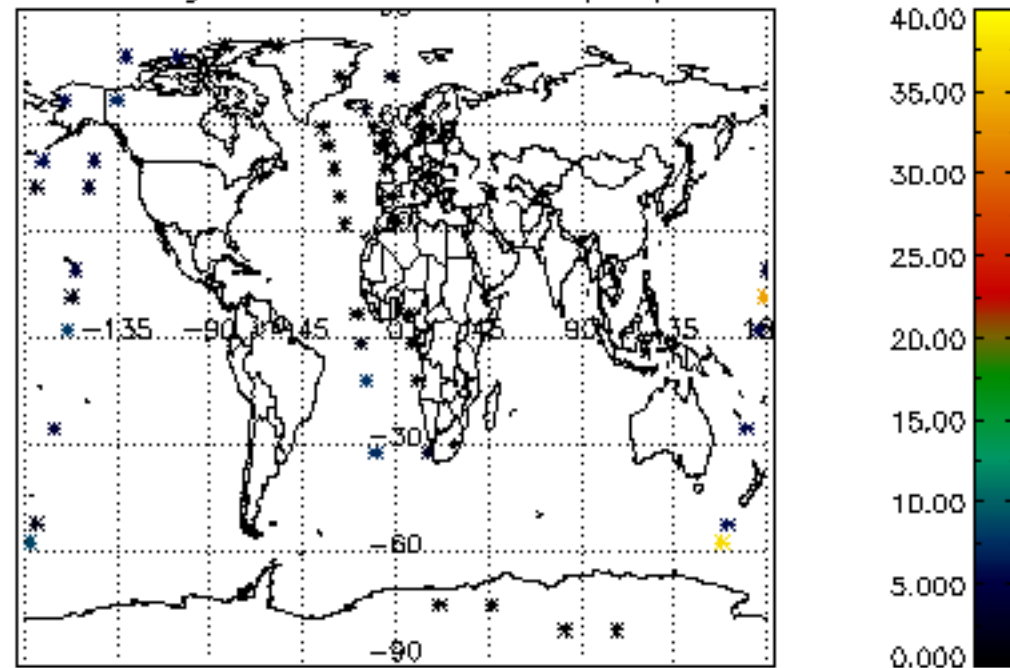
Percentage of datation errors per profile



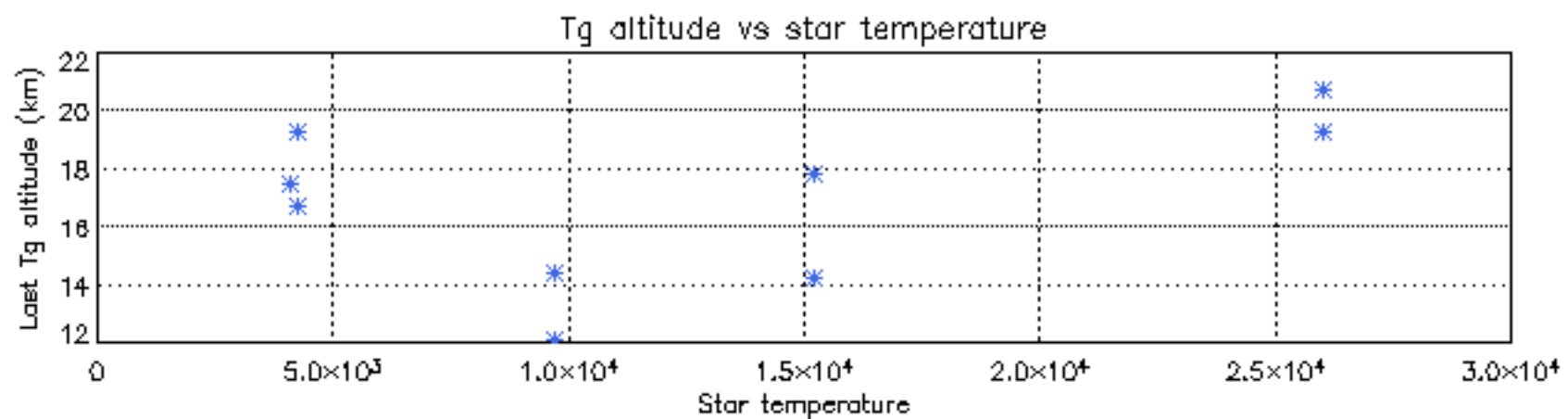
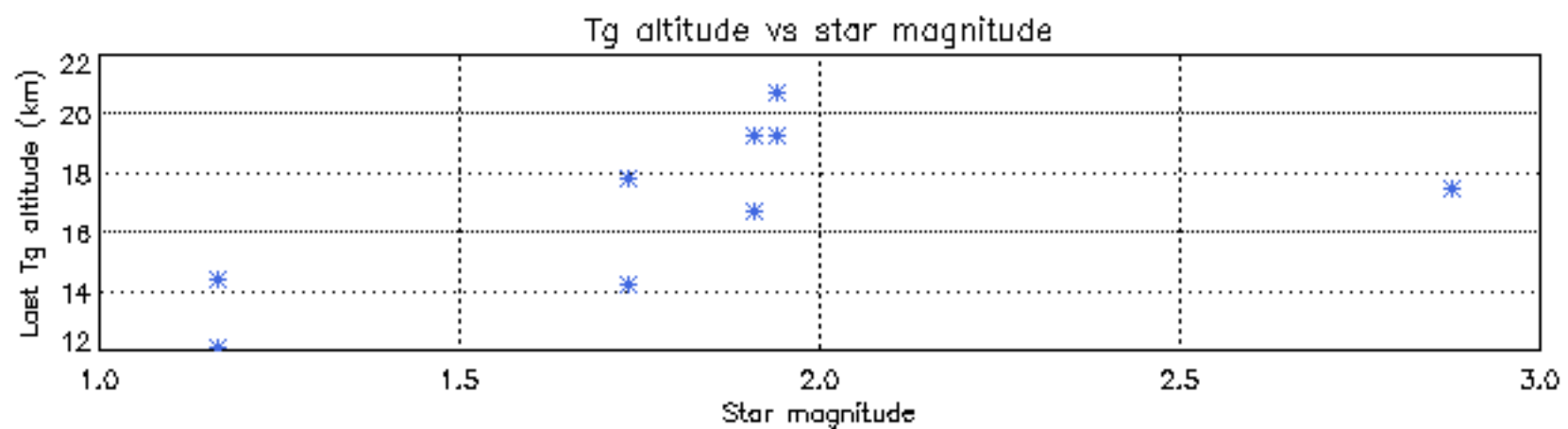
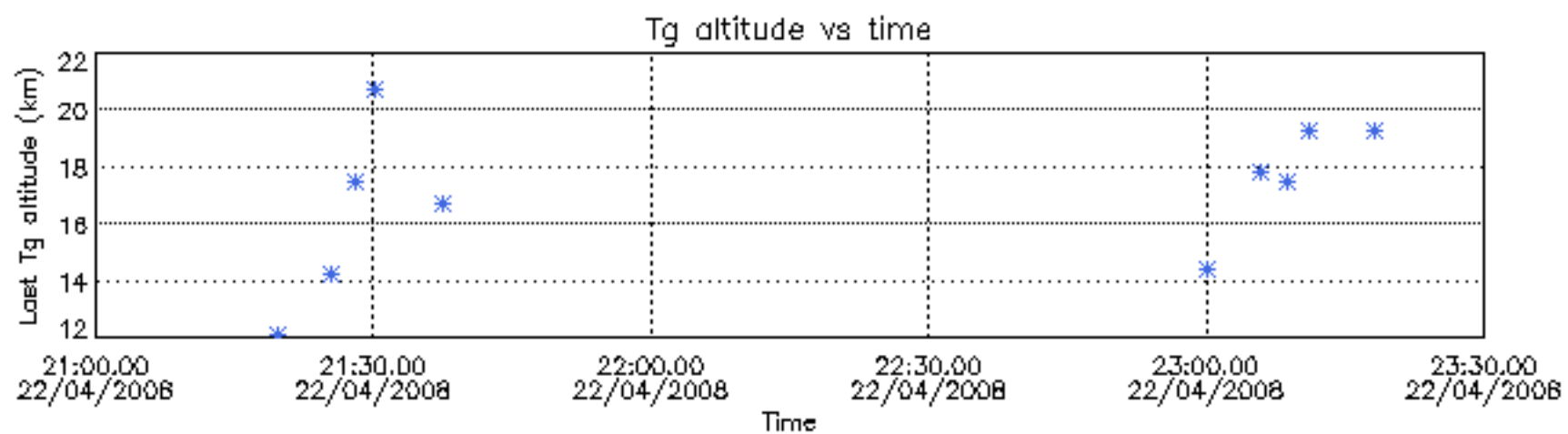
Percentage of star falling outside central band per profile



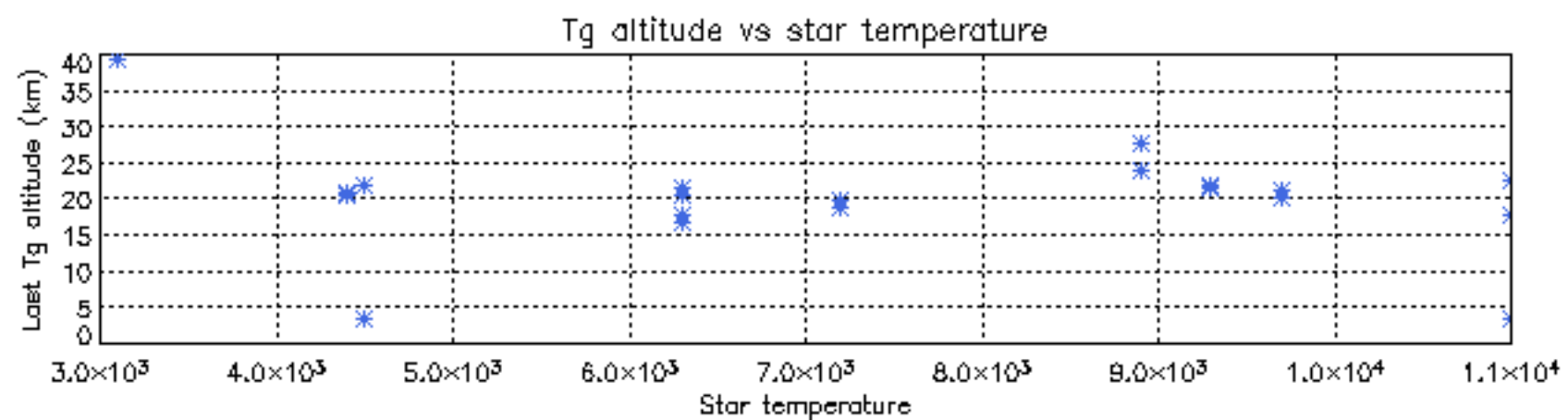
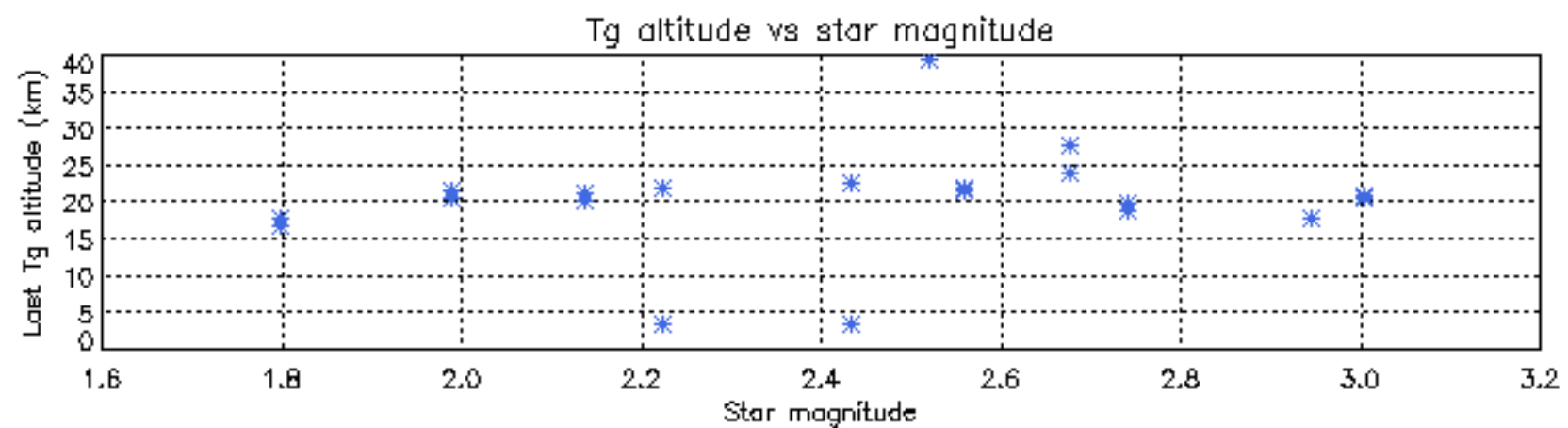
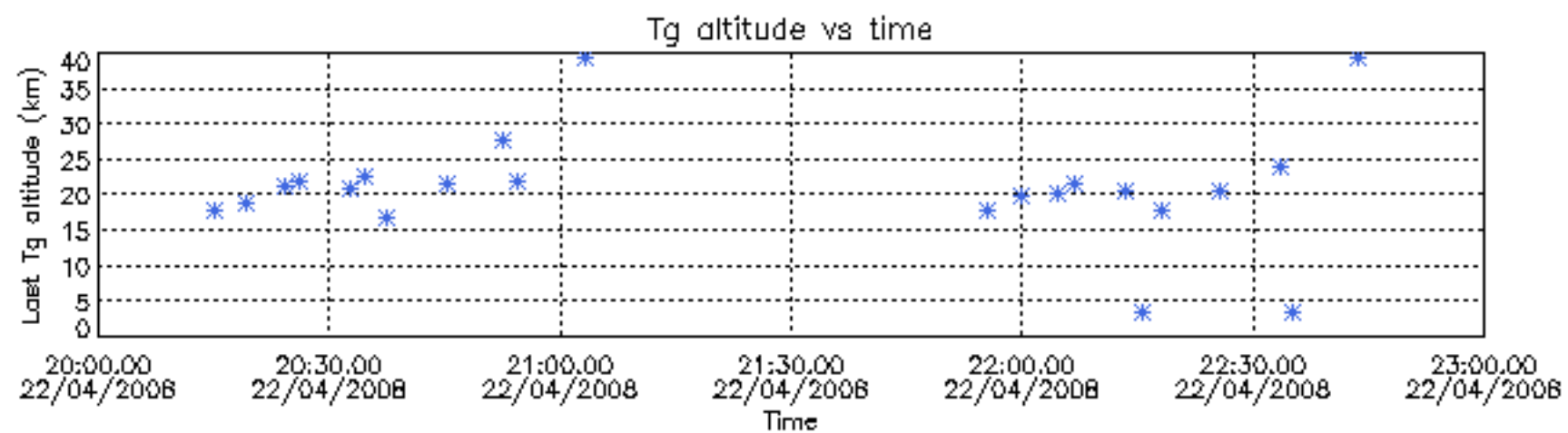
Percentage of saturation errors per profile

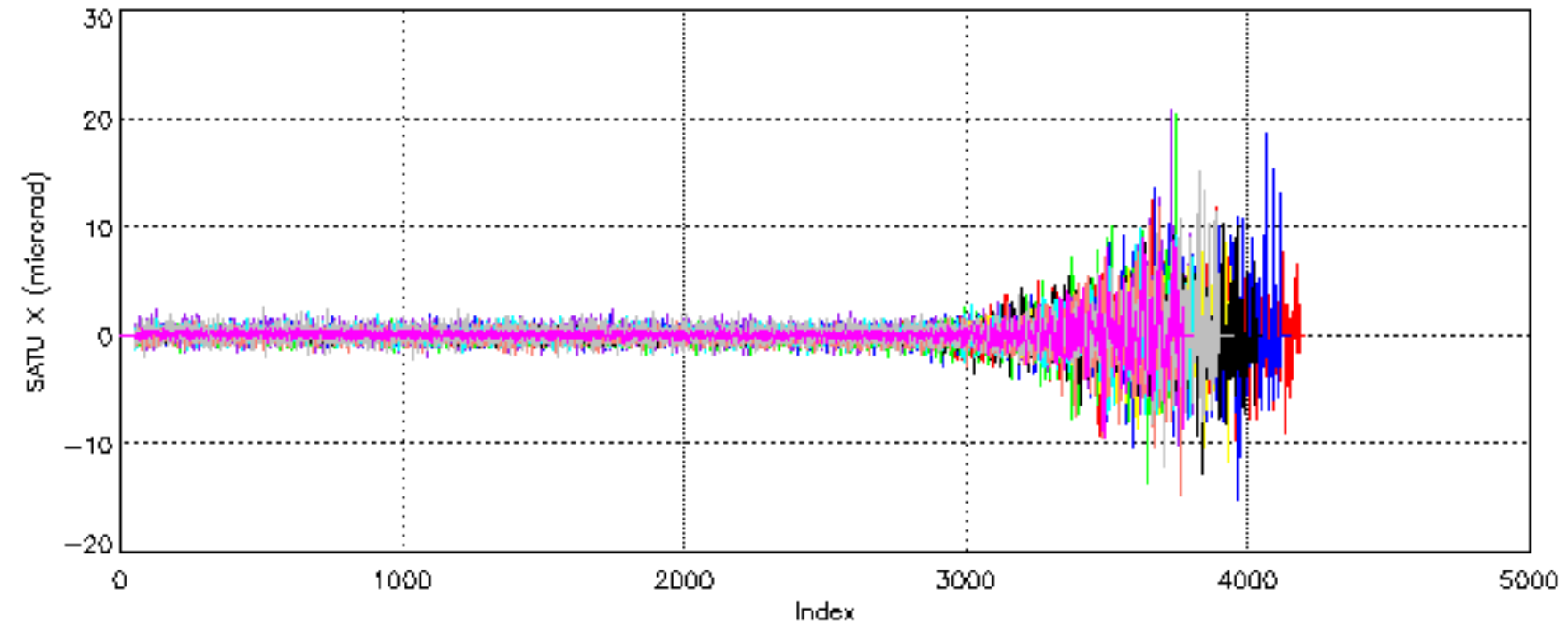


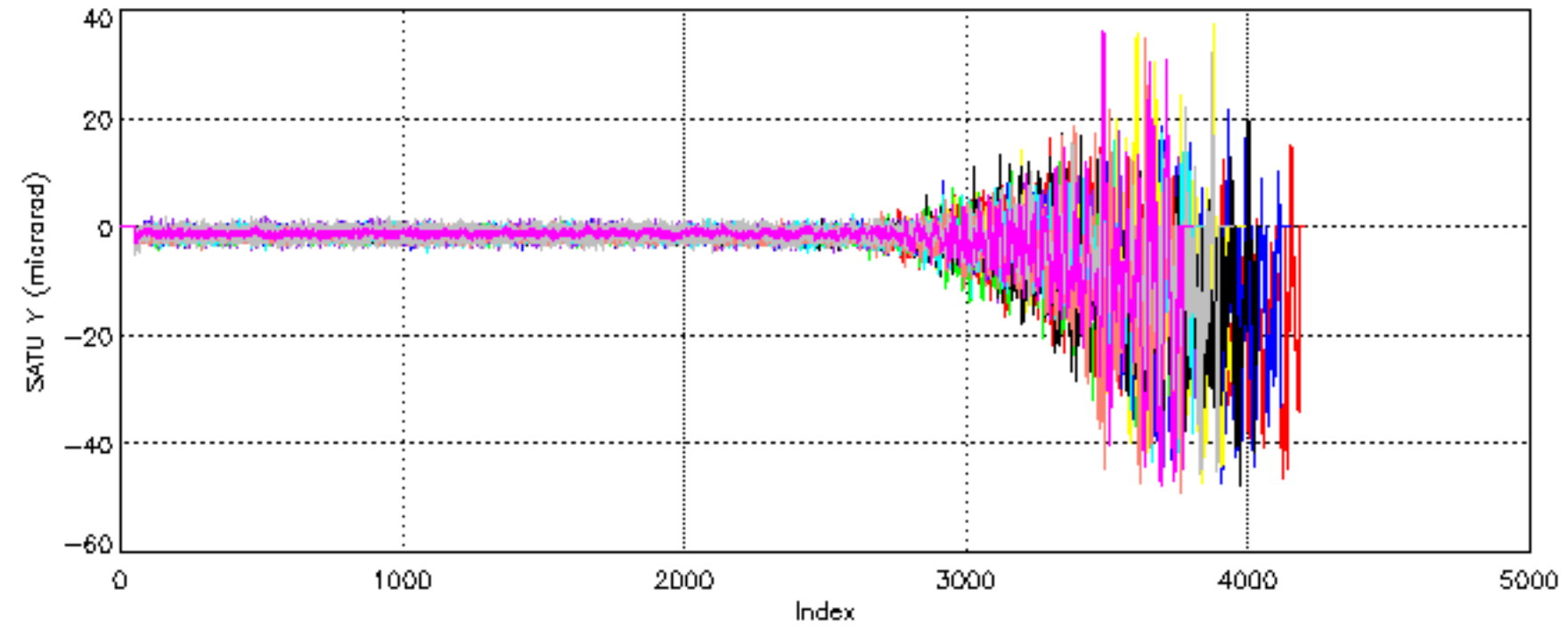
Tangent altitude at which the star is lost

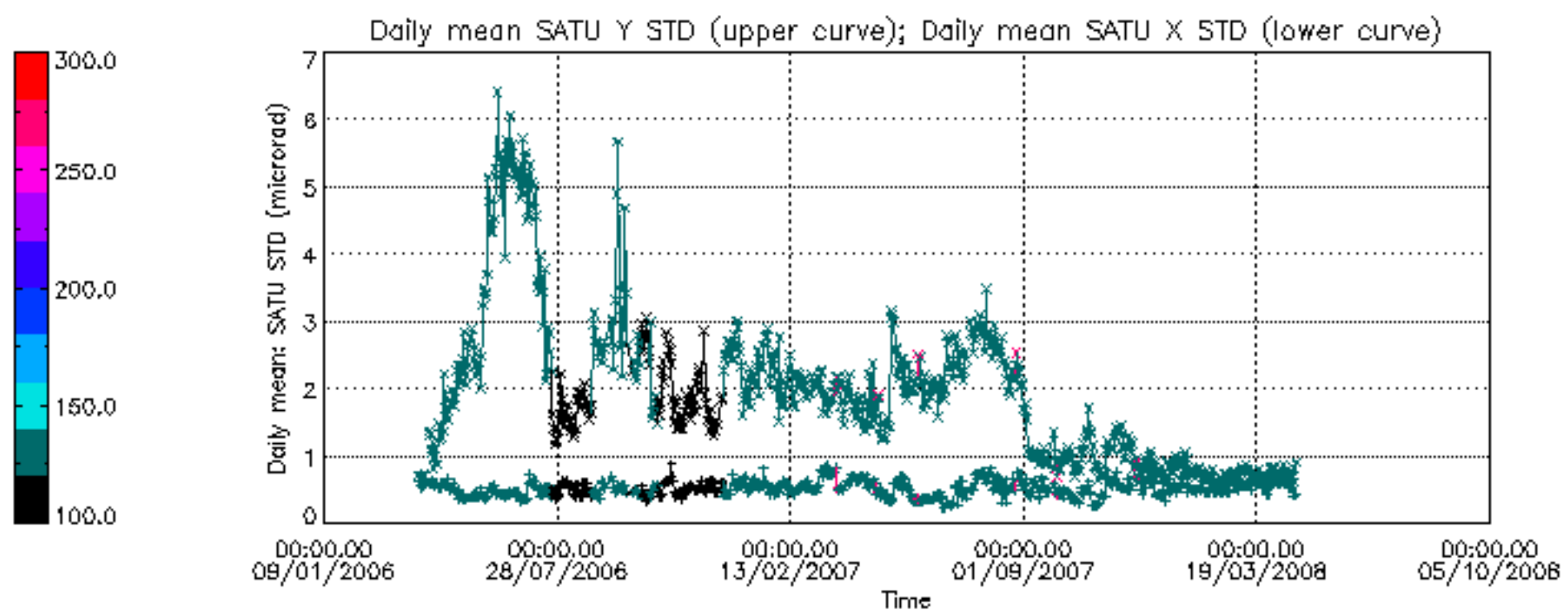


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL_0P/GOM_NL_0PNPDK20080401_061816_000054942067_00206_31823_0571.N1

1;	2160.3;	01-APR-2008	06:18:16;	Bright;	38.0;	62;	94Bet Leo	;	2.14;	9700;occ;	76;	0;	31823	
2;	2257.5;	01-APR-2008	06:19:53;	Bright;	35.5;	96;	68Del Leo	;	2.56;	9300;occ;	71;	0;	31823	
3;	2666.1;	01-APR-2008	06:26:42;	Bright;	35.5;	174;	52Psi UMa	;	3.00;	4400;occ;	71;	0;	31823	
4;	2846.9;	01-APR-2008	06:29:43;	Bright;	36.0;	87;	64Gam UMa	;	2.43;	11000;occ;	72;	0;	31823	
5;	2957.8;	01-APR-2008	06:31:33;	Bright;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	31823	
6;	3440.4;	01-APR-2008	06:39:36;	Bright;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	31823	
7;	3901.8;	01-APR-2008	06:47:17;	Bright;	37.0;	89;	5Alp Cep	;	2.45;	8000;occ;	74;	0;	31823	
8;	4829.7;	01-APR-2008	07:02:45;	Dark	;	61;	8Eps Peg	;	2.10;	3900;occ;	88;	0;	31823	
9;	5105.8;	01-APR-2008	07:07:21;	Dark	;	154;	22Bet Aqr	;	2.90;	5700;occ;	78;	0;	31823	
10;	5259.9;	01-APR-2008	07:09:56;	Dark	;	40.0;	142;	49Del Cap	;	2.85;	8900;occ;	80;	0;	31823
11;	5595.9;	01-APR-2008	07:15:32;	Dark	;	37.0;	172;	Gam Gru	;	3.00;	13100;occ;	74;	0;	31823
12;	5868.5;	01-APR-2008	07:20:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	31823
13;	5994.8;	01-APR-2008	07:22:10;	Dark	;	38.5;	45;	Alp Pav	;	1.94;	26000;occ;	77;	0;	31823
14;	6445.8;	01-APR-2008	07:29:41;	Dark	;	38.5;	43;	Alp TrA	;	1.91;	4250;occ;	77;	0;	31823
15;	6557.4;	01-APR-2008	07:31:33;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;occ;	80;	0;	31823
16;	6715.3;	01-APR-2008	07:34:11;	Dark	;	44.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	89;	0;	31823
17;	6850.2;	01-APR-2008	07:36:26;	Dark	;	40.5;	12;	Alp1Cru	;	0.77;	30000;occ;	81;	0;	31823
18;	6937.4;	01-APR-2008	07:37:53;	Dark	;	41.5;	26;	Gam Cru	;	1.62;	2900;occ;	83;	0;	31823
19;	7054.0;	01-APR-2008	07:39:50;	Dark	;	39.0;	64;	Gam Cen	;	2.20;	10600;occ;	78;	0;	31823
20;	7208.5;	01-APR-2008	07:42:24;	Dark	;	43.5;	123;	Iot Cen	;	2.75;	10200;occ;	87;	0;	31823
21;	7498.5;	01-APR-2008	07:47:14;	Dark	;	45.5;	106;	9Bet Crv	;	2.65;	5600;occ;	91;	0;	31823
22;	7615.9;	01-APR-2008	07:49:12;	Dark	;	39.0;	100;	4Gam Crv	;	2.58;	13100;occ;	78;	0;	31823

/nas3/ENVISAT/GOMOS/GOM_NL_0P/GOM_NL_0PNPDK20080401_075852_000054972067_00207_31824_0572.N1

1;	2160.2;	01-APR-2008	07:58:52;	Bright;	37.5;	62;	94Bet Leo	;	2.14;	9700;occ;	75;	0;	31824	
2;	2257.4;	01-APR-2008	08:00:29;	Bright;	35.0;	96;	68Del Leo	;	2.56;	9300;occ;	70;	0;	31824	
3;	2666.0;	01-APR-2008	08:07:18;	Bright;	35.0;	174;	52Psi UMa	;	3.00;	4400;occ;	70;	0;	31824	
4;	2846.6;	01-APR-2008	08:10:18;	Bright;	37.0;	87;	64Gam UMa	;	2.43;	11000;occ;	74;	0;	31824	
5;	2957.7;	01-APR-2008	08:12:09;	Bright;	35.0;	36;	50Alp UMa	;	1.80;	6300;occ;	70;	0;	31824	
6;	3440.4;	01-APR-2008	08:20:12;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	31824	
7;	3901.9;	01-APR-2008	08:27:53;	Bright;	37.5;	89;	5Alp Cep	;	2.45;	8000;occ;	75;	0;	31824	
8;	4829.9;	01-APR-2008	08:43:22;	Dark	;	45.5;	61;	8Eps Peg	;	2.10;	3900;occ;	91;	0;	31824
9;	5106.2;	01-APR-2008	08:47:58;	Dark	;	42.5;	154;	22Bet Aqr	;	2.90;	5700;occ;	85;	0;	31824
10;	5260.2;	01-APR-2008	08:50:32;	Dark	;	38.5;	142;	49Del Cap	;	2.85;	8900;occ;	77;	0;	31824
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 9; 3440.8; 04-APR-2008 01:43:33; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;31863
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 12; 4990.4; 04-APR-2008 02:09:23; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;31863
 13; 5121.5; 04-APR-2008 02:11:34; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;31863
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 17; 6462.4; 04-APR-2008 02:33:55; Dark ; 49.0; 43; Alp TrA ; 1.91; 4250;occ; 98; 0;31863
 18; 6577.5; 04-APR-2008 02:35:50; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31863
 19; 6733.2; 04-APR-2008 02:38:26; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;31863
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 24; 7505.9; 04-APR-2008 02:51:18; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;31863

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 13; 5274.1; 04-APR-2008 03:54:42; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;31864
 14; 5606.5; 04-APR-2008 04:00:15; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;31864
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 16; 6011.4; 04-APR-2008 04:07:00; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;31864
 17; 6463.1; 04-APR-2008 04:14:31; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;31864

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 22; 7223.6; 04-APR-2008 04:27:12; Dark ; 44.0; 123; Tot Cen ; 2.75; 10200;occ; 88; 0;31864
 23; 7506.4; 04-APR-2008 04:31:55; Dark ; 40.5; 106; 9Bet Crv ; 2.65; 5600;occ; 81; 0;31864
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 3; 2258.3; 04-APR-2008 04:45:03; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31865
 4; 2664.4; 04-APR-2008 04:51:49; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31865
 5; 2838.0; 04-APR-2008 04:54:42; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31865
 6; 2956.1; 04-APR-2008 04:56:40; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;31865
 7; 3321.9; 04-APR-2008 05:02:46; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;31865
 8; 3441.0; 04-APR-2008 05:04:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31865
 9; 3899.0; 04-APR-2008 05:12:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;31865
 10; 4842.0; 04-APR-2008 05:28:06; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;31865
 11; 4991.1; 04-APR-2008 05:30:35; Dark ; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;31865
 12; 5122.5; 04-APR-2008 05:32:47; Dark ; 46.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 92; 0;31865
 13; 5274.5; 04-APR-2008 05:35:19; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31865
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 19; 6734.3; 04-APR-2008 05:59:39; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;31865
 20; 6859.5; 04-APR-2008 06:01:44; Dark ; 37.0; 12; Alp1Cru ; 0.77; 30000;occ; 74; 0;31865
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 22; 7066.5; 04-APR-2008 06:05:11; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31865
 23; 7224.0; 04-APR-2008 06:07:48; Dark ; 41.5; 123; Tot Cen ; 2.75; 10200;occ; 83; 0;31865
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 6; 3321.6; 04-APR-2008 06:43:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;31866
 7; 3441.0; 04-APR-2008 06:45:21; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31866
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 9; 4842.3; 04-APR-2008 07:08:43; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;31866
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 12; 5274.9; 04-APR-2008 07:15:55; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31866
 13; 5607.4; 04-APR-2008 07:21:28; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31866
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 16; 6463.9; 04-APR-2008 07:35:44; Dark ; 43.0; 43; Alp TrA ; 1.91; 4250;occ; 86; 0;31866
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 18; 6734.7; 04-APR-2008 07:40:15; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;31866
 19; 6859.7; 04-APR-2008 07:42:20; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;31866
 20; 6948.4; 04-APR-2008 07:43:49; Dark ; 51.0; 26; Gam Cru ; 1.62; 2900;occ; 102; 0;31866
 21; 7066.7; 04-APR-2008 07:45:47; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;31866
 22; 7224.3; 04-APR-2008 07:48:25; Dark ; 42.0; 123; Tot Cen ; 2.75; 10200;occ; 84; 0;31866
 23; 7506.8; 04-APR-2008 07:53:07; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31866
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 3; 2664.5; 04-APR-2008 08:13:01; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;31867
 4; 2837.7; 04-APR-2008 08:15:54; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31867
 5; 2956.1; 04-APR-2008 08:17:52; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;31867
 6; 3321.3; 04-APR-2008 08:23:58; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;31867
 7; 3440.9; 04-APR-2008 08:25:57; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;31867
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22; 7224.5; 04-APR-2008 09:29:01; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;31867
23; 7506.9; 04-APR-2008 09:33:43; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;31867
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13; 5607.8; 04-APR-2008 10:42:40; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31868
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23; 7507.0; 04-APR-2008 11:14:19; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;31868
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3; 1587.0; 04-APR-2008 23:00:27; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;31876
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6; 2664.1; 04-APR-2008 23:18:24; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31876
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8; 2955.7; 04-APR-2008 23:23:15; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31876
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22; 6950.6; 05-APR-2008 00:29:50; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;31876
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2; 2258.5; 04-APR-2008 11:27:27; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;31869

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5; 2956.0; 04-APR-2008 11:39:04; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31869
6; 3320.6; 04-APR-2008 11:45:09; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;31869
7; 3440.9; 04-APR-2008 11:47:09; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31869
8; 3898.6; 04-APR-2008 11:54:47; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;31869
9; 4843.1; 04-APR-2008 12:10:31; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;31869
10; 4992.3; 04-APR-2008 12:13:00; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;31869
11; 5124.1; 04-APR-2008 12:15:12; Dark ; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;31869
12; 5275.9; 04-APR-2008 12:17:44; Dark ; 40.5; 142; 49Del Cap ; 2.85; 8900;occ; 81; 0;31869
13; 5608.1; 04-APR-2008 12:23:16; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;31869
14; 5887.4; 04-APR-2008 12:27:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31869
15; 6013.5; 04-APR-2008 12:30:02; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31869
16; 6465.0; 04-APR-2008 12:37:33; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;31869
17; 6580.6; 04-APR-2008 12:39:29; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31869
18; 6735.9; 04-APR-2008 12:42:04; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;31869
19; 6860.2; 04-APR-2008 12:44:08; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;31869
20; 7067.5; 04-APR-2008 12:47:36; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;31869
21; 7225.3; 04-APR-2008 12:50:13; Dark ; 41.0; 123; Iot Cen ; 2.75; 10200;occ; 82; 0;31869
22; 7507.2; 04-APR-2008 12:54:55; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;31869
23; 7622.1; 04-APR-2008 12:56:50; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;31869

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3; 2258.5; 04-APR-2008 13:08:02; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31870
4; 2664.3; 04-APR-2008 13:14:48; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31870
5; 2837.2; 04-APR-2008 13:17:41; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;31870
6; 2956.0; 04-APR-2008 13:19:40; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;31870
7; 3320.3; 04-APR-2008 13:25:44; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;31870
8; 3441.0; 04-APR-2008 13:27:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;31870
9; 3898.5; 04-APR-2008 13:35:22; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;31870
10; 4843.4; 04-APR-2008 13:51:07; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;31870
11; 4992.7; 04-APR-2008 13:53:37; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;31870
12; 5124.5; 04-APR-2008 13:55:48; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;31870
13; 5276.4; 04-APR-2008 13:58:20; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31870
14; 5608.3; 04-APR-2008 14:03:52; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31870
15; 5887.8; 04-APR-2008 14:08:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31870
16; 6014.0; 04-APR-2008 14:10:38; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;31870
17; 6465.5; 04-APR-2008 14:18:09; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;31870
18; 6581.2; 04-APR-2008 14:20:05; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;31870
19; 6736.4; 04-APR-2008 14:22:40; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;31870
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21; 6949.4; 04-APR-2008 14:26:13; Dark ; 44.5; 26; Gam Cru ; 1.62; 2900;occ; 89; 0;31870
22; 7067.8; 04-APR-2008 14:28:12; Dark ; 36.5; 64; Gam Cen ; 2.20; 10600;occ; 73; 0;31870
23; 7225.7; 04-APR-2008 14:30:50; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;31870
24; 7507.4; 04-APR-2008 14:35:31; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;31870

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2; 1586.4; 04-APR-2008 14:37:26; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;31871
3; 2156.8; 04-APR-2008 14:46:57; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;31871
4; 2258.7; 04-APR-2008 14:48:38; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;31871
5; 2664.4; 04-APR-2008 14:55:24; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;31871
6; 2837.2; 04-APR-2008 14:58:17; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31871
7; 2956.0; 04-APR-2008 15:00:16; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31871
8; 3320.0; 04-APR-2008 15:06:20; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;31871
9; 3441.1; 04-APR-2008 15:08:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31871
10; 3898.5; 04-APR-2008 15:15:58; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;31871
11; 4843.8; 04-APR-2008 15:31:44; Dark ; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;31871
12; 4993.1; 04-APR-2008 15:34:13; Dark ; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;31871
13; 5125.0; 04-APR-2008 15:36:25; Dark ; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;31871
14; 5276.8; 04-APR-2008 15:38:57; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;31871
15; 5608.7; 04-APR-2008 15:44:28; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;31871
16; 5888.3; 04-APR-2008 15:49:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31871
17; 6014.3; 04-APR-2008 15:51:14; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;31871
18; 6466.0; 04-APR-2008 15:58:46; Dark ; 37.5; 43; Alp TrA ; 1.91; 4250;occ; 75; 0;31871
19; 6581.8; 04-APR-2008 16:00:42; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;31871
20; 6736.9; 04-APR-2008 16:03:17; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;31871
21; 6860.7; 04-APR-2008 16:05:20; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;31871

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23; 7068.1; 04-APR-2008 16:08:48; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;31871
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2; 1471.6; 04-APR-2008 16:16:07; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;31872
3; 1586.5; 04-APR-2008 16:18:02; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;31872
4; 2156.7; 04-APR-2008 16:27:32; Bright; 36.0; 62; 94Bet Leo ; 2.14; 9700;occ; 72; 0;31872
5; 2258.6; 04-APR-2008 16:29:14; Bright; 34.0; 96; 68Del Leo ; 2.56; 9300;occ; 68; 0;31872
6; 2664.2; 04-APR-2008 16:36:00; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;31872
7; 2836.8; 04-APR-2008 16:38:53; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;31872
8; 2955.9; 04-APR-2008 16:40:52; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;31872
9; 3319.7; 04-APR-2008 16:46:55; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;31872
10; 3441.0; 04-APR-2008 16:48:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31872
11; 3898.3; 04-APR-2008 16:56:34; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;31872
12; 4844.1; 04-APR-2008 17:12:20; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;31872
13; 4993.3; 04-APR-2008 17:14:49; Dark ; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;31872
14; 5125.5; 04-APR-2008 17:17:01; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;31872
15; 5277.1; 04-APR-2008 17:19:33; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;31872
16; 5608.9; 04-APR-2008 17:25:05; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;31872
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19; 6466.4; 04-APR-2008 17:39:22; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;31872
20; 6582.3; 04-APR-2008 17:41:18; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;31872
21; 6737.3; 04-APR-2008 17:43:53; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;31872
22; 6860.9; 04-APR-2008 17:45:57; Dark ; 37.5; 12; Alp1Cru ; 0.77; 30000;occ; 75; 0;31872
23; 6949.9; 04-APR-2008 17:47:26; Dark ; 48.0; 26; Gam Cru ; 1.62; 2900;occ; 96; 0;31872
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3; 1471.7; 04-APR-2008 17:56:44; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;31873
4; 1586.7; 04-APR-2008 17:58:38; Dark ; 37.5; 100; 4Gam Crv ; 2.58; 13100;occ; 75; 0;31873
5; 2156.6; 04-APR-2008 18:08:08; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;31873
6; 2258.7; 04-APR-2008 18:09:51; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31873
7; 2664.3; 04-APR-2008 18:16:36; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;31873
8; 2836.7; 04-APR-2008 18:19:28; Bright; 54.0; 87; 64Gam UMa ; 2.43; 11000;occ; 108; 0;31873
9; 2955.9; 04-APR-2008 18:21:28; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31873
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19; 6015.1; 04-APR-2008 19:12:27; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;31873
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21; 6582.7; 04-APR-2008 19:21:54; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;31873
22; 6737.7; 04-APR-2008 19:24:30; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;31873
23; 6861.0; 04-APR-2008 19:26:33; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;31873
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3; 1472.0; 04-APR-2008 19:37:20; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;31874
4; 1586.8; 04-APR-2008 19:39:15; Dark ; 42.0; 100; 4Gam Crv ; 2.58; 13100;occ; 84; 0;31874
5; 2156.5; 04-APR-2008 19:48:44; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;31874
6; 2258.6; 04-APR-2008 19:50:26; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31874
7; 2664.3; 04-APR-2008 19:57:12; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31874
8; 2836.4; 04-APR-2008 20:00:04; Bright; 54.0; 87; 64Gam UMa ; 2.43; 11000;occ; 108; 0;31874
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10; 3318.8; 04-APR-2008 20:08:07; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;31874
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12; 3898.1; 04-APR-2008 20:17:46; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;31874
13; 4844.5; 04-APR-2008 20:33:32; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;31874

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 16; 5277.7; 04-APR-2008 20:40:46; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31874
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 19; 6015.5; 04-APR-2008 20:53:03; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31874
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 21; 6583.0; 04-APR-2008 21:02:31; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31874
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 4; 1472.1; 04-APR-2008 21:17:56; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;31875
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 7; 2258.7; 04-APR-2008 21:31:02; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31875
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 3; 2259.2; 05-APR-2008 12:36:26; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31884
 4; 2664.2; 05-APR-2008 12:43:11; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31884
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 8; 3856.9; 05-APR-2008 13:03:04; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;31884
 9; 3936.6; 05-APR-2008 13:04:23; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;31884
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 8; 3441.2; 05-APR-2008 22:59:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;31890
 9; 3858.4; 05-APR-2008 23:06:41; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;31890
 10; 3938.1; 05-APR-2008 23:08:01; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;31890
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 12; 4998.5; 05-APR-2008 23:25:41; Dark ; 42.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 85; 0;31890
 13; 5133.2; 05-APR-2008 23:27:56; Dark ; 40.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 80; 0;31890
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 22; 6863.5; 05-APR-2008 15:33:46; Dark ; 37.0; 12; Alp1Cru ; 0.77; 30000;occ; 74; 0;31885
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 4; 2259.4; 05-APR-2008 15:57:38; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31886
 5; 2664.3; 05-APR-2008 16:04:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31886

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8; 3441.1; 05-APR-2008 16:17:20; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;31886
9; 3857.6; 05-APR-2008 16:24:16; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;31886
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 20; 2664.9; 08-APR-2008 04:25:57; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31922
 21; 2829.0; 08-APR-2008 04:28:41; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;31922
 22; 2955.7; 08-APR-2008 04:30:47; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31922
 23; 3441.6; 08-APR-2008 04:38:53; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;31922

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 2;-2107.6; 08-APR-2008 04:47:00; Bright; 35.5; 74; 11Bet Cas ; 2.27; 6600;occ; 71; 0;31922
 3;-1576.9; 08-APR-2008 04:55:51; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31922
 4;-1027.1; 08-APR-2008 05:05:01; Dark ; 42.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 84; 0;31922
 5; -738.5; 08-APR-2008 05:09:49; Dark ; 44.0; 142; 49Del Cap ; 2.85; 8900;occ; 88; 0;31922
 6; -591.4; 08-APR-2008 05:12:16; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;31922
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 8; -275.6; 08-APR-2008 05:17:32; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;31922
 9; -124.6; 08-APR-2008 05:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31922
 10; 0.9; 08-APR-2008 05:22:09; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;31923
 11; 451.3; 08-APR-2008 05:29:39; Dark ; 49.0; 43; Alp TrA ; 1.91; 4250;occ; 98; 0;31923
 12; 570.8; 08-APR-2008 05:31:39; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;31923
 13; 722.7; 08-APR-2008 05:34:11; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;31923
 14; 834.8; 08-APR-2008 05:36:03; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;31923
 15; 925.5; 08-APR-2008 05:37:33; Dark ; 51.5; 26; Gam Cru ; 1.62; 2900;occ; 103; 0;31923
 16; 1046.1; 08-APR-2008 05:39:34; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;31923
 17; 1481.2; 08-APR-2008 05:46:49; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;31923
 18; 1593.6; 08-APR-2008 05:48:41; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;31923
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 20; 2262.2; 08-APR-2008 05:59:50; Bright; 34.5; 96; 68Del Leo ; 2.56; 9300;occ; 69; 0;31923
 21; 2665.0; 08-APR-2008 06:06:33; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31923
 22; 2829.0; 08-APR-2008 06:09:17; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;31923
 23; 2955.6; 08-APR-2008 06:11:23; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;31923
 24; 3441.6; 08-APR-2008 06:19:29; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;31923

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 3;-1576.7; 08-APR-2008 06:36:27; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31923
 4;-1026.8; 08-APR-2008 06:45:37; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;31923
 5; -738.1; 08-APR-2008 06:50:26; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31923
 6; -591.3; 08-APR-2008 06:52:53; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;31923
 7; -410.7; 08-APR-2008 06:55:53; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;31923
 8; -275.3; 08-APR-2008 06:58:09; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;31923
 9; -124.1; 08-APR-2008 07:00:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31923
 10; 1.5; 08-APR-2008 07:02:45; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31924
 11; 451.7; 08-APR-2008 07:10:16; Dark ; 42.5; 43; Alp TrA ; 1.91; 4250;occ; 85; 0;31924
 12; 571.3; 08-APR-2008 07:12:15; Dark ; 41.0; 134; Bet TrA ; 2.81; 6600;occ; 82; 0;31924
 13; 723.1; 08-APR-2008 07:14:47; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;31924
 14; 835.0; 08-APR-2008 07:16:39; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;31924
 15; 925.8; 08-APR-2008 07:18:10; Dark ; 44.5; 26; Gam Cru ; 1.62; 2900;occ; 89; 0;31924
 16; 1046.4; 08-APR-2008 07:20:10; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;31924
 17; 1481.3; 08-APR-2008 07:27:25; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;31924
 18; 1593.8; 08-APR-2008 07:29:18; Dark ; 39.0; 100; 4Gam Crv ; 2.58; 13100;occ; 78; 0;31924

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 2; 2262.4; 08-APR-2008 07:40:26; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;31924
 3; 2664.9; 08-APR-2008 07:47:09; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;31924
 4; 2828.6; 08-APR-2008 07:49:52; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;31924
 5; 2955.7; 08-APR-2008 07:51:59; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31924
 6; 3441.6; 08-APR-2008 08:00:05; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;31924
 7; 3845.5; 08-APR-2008 08:06:49; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;31924
 8; 3928.7; 08-APR-2008 08:08:12; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;31924
 9; 4459.4; 08-APR-2008 08:17:03; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;31924
 10; 5009.5; 08-APR-2008 08:26:13; Dark ; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;31924
 11; 5298.3; 08-APR-2008 08:31:02; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31924
 12; 5444.8; 08-APR-2008 08:33:29; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31924
 13; 5625.5; 08-APR-2008 08:36:29; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31924
 14; 5760.9; 08-APR-2008 08:38:45; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;31924
 15; 5912.3; 08-APR-2008 08:41:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31924
 16; 6037.8; 08-APR-2008 08:43:22; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;31924
 17; 6488.1; 08-APR-2008 08:50:52; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31924
 18; 6607.7; 08-APR-2008 08:52:52; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;31924
 19; 6759.4; 08-APR-2008 08:55:23; Dark ; 53.5; 4; Alp1Cen ; -0.01; 5800;occ; 107; 0;31924
 20; 6871.2; 08-APR-2008 08:57:15; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;31924
 21; 6961.9; 08-APR-2008 08:58:46; Dark ; 48.0; 26; Gam Cru ; 1.62; 2900;occ; 96; 0;31924
 22; 7082.5; 08-APR-2008 09:00:46; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31924
 23; 7517.4; 08-APR-2008 09:08:01; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;31924
 24; 7629.9; 08-APR-2008 09:09:54; Dark ; 39.5; 100; 4Gam Crv ; 2.58; 13100;occ; 79; 0;31924

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 3; 2665.0; 08-APR-2008 09:27:45; Bright; 34.0; 174; 52Psi UMa ; 3.00; 4400;occ; 68; 0;31925
 4; 2828.6; 08-APR-2008 09:30:28; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;31925
 5; 2955.7; 08-APR-2008 09:32:35; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;31925
 6; 3845.8; 08-APR-2008 09:47:25; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;31925
 7; 3928.8; 08-APR-2008 09:48:49; Bright; 34.0; 74; 11Bet Cas ; 2.27; 6600;occ; 68; 0;31925
 8; 4459.4; 08-APR-2008 09:57:39; Bright; 33.5; 164; 44Eta Peg ; 2.95; 5400;occ; 67; 0;31925
 9; 5009.8; 08-APR-2008 10:06:49; Dark ; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;31925
 10; 5298.7; 08-APR-2008 10:11:38; Dark ; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;31925
 11; 5444.9; 08-APR-2008 10:14:05; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;31925
 12; 5626.0; 08-APR-2008 10:17:06; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;31925
 13; 5761.1; 08-APR-2008 10:19:21; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;31925
 14; 5912.7; 08-APR-2008 10:21:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31925
 15; 6038.3; 08-APR-2008 10:23:58; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;31925
 16; 6488.4; 08-APR-2008 10:31:28; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;31925
 17; 6608.2; 08-APR-2008 10:33:28; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;31925
 18; 6759.7; 08-APR-2008 10:35:59; Dark ; 54.0; 4; Alp1Cen ; -0.01; 5800;occ; 108; 0;31925
 19; 6871.3; 08-APR-2008 10:37:51; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;31925
 20; 6962.0; 08-APR-2008 10:39:22; Dark ; 41.0; 26; Gam Cru ; 1.62; 2900;occ; 82; 0;31925
 21; 7082.7; 08-APR-2008 10:41:22; Dark ; 37.0; 64; Gam Cen ; 2.20; 10600;occ; 74; 0;31925
 22; 7243.8; 08-APR-2008 10:44:03; Dark ; 28.0; 123; Iot Cen ; 2.75; 10200;occ; 56; 0;31925
 23; 7517.5; 08-APR-2008 10:48:37; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;31925
 24; 7630.0; 08-APR-2008 10:50:30; Dark ; 37.5; 100; 4Gam Crv ; 2.58; 13100;occ; 75; 0;31925

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 3; 2665.0; 08-APR-2008 11:08:21; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;31926
 4; 2828.5; 08-APR-2008 11:11:04; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;31926
 5; 2955.7; 08-APR-2008 11:13:11; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;31926
 6; 3441.5; 08-APR-2008 11:21:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;31926
 7; 3846.0; 08-APR-2008 11:28:02; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;31926
 8; 3928.9; 08-APR-2008 11:29:24; Bright; 32.5; 74; 11Bet Cas ; 2.27; 6600;occ; 65; 0;31926
 9; 4459.5; 08-APR-2008 11:38:15; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31926
 10; 5010.2; 08-APR-2008 11:47:26; Dark ; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;31926
 11; 5299.1; 08-APR-2008 11:52:15; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31926
 12; 5445.0; 08-APR-2008 11:54:41; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;31926
 13; 5626.2; 08-APR-2008 11:57:42; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31926
 14; 5761.3; 08-APR-2008 11:59:57; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;31926
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 16; 6488.9; 08-APR-2008 12:12:04; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;31926
 17; 6608.7; 08-APR-2008 12:14:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;31926

18; 6760.2; 08-APR-2008 12:16:36; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;31926
 19; 6871.4; 08-APR-2008 12:18:27; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;31926
 20; 6962.3; 08-APR-2008 12:19:58; Dark ; 50.0; 26; Gam Cru ; 1.62; 2900;occ; 100; 0;31926
 21; 7083.0; 08-APR-2008 12:21:59; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;31926
 22; 7244.2; 08-APR-2008 12:24:40; Dark ; 28.0; 123; Iot Cen ; 2.75; 10200;occ; 56; 0;31926
 23; 7517.7; 08-APR-2008 12:29:13; Dark ; 40.0; 106; 9Bet Crv ; 2.65; 5600;occ; 80; 0;31926
 24; 7630.2; 08-APR-2008 12:31:06; Dark ; 31.0; 100; 4Gam Crv ; 2.58; 13100;occ; 62; 0;31926

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 3; 2262.6; 08-APR-2008 12:42:14; Bright; 35.0; 96; 68Del Leo ; 2.56; 9300;occ; 70; 0;31927
 4; 2665.1; 08-APR-2008 12:48:57; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;31927
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 8; 3846.5; 08-APR-2008 13:08:38; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;31927
 9; 3929.3; 08-APR-2008 13:10:01; Bright; 35.5; 74; 11Bet Cas ; 2.27; 6600;occ; 71; 0;31927
 10; 4459.7; 08-APR-2008 13:18:51; Bright; 34.5; 164; 44Eta Peg ; 2.95; 5400;occ; 69; 0;31927
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 12; 5299.5; 08-APR-2008 13:32:51; Dark ; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;31927
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 14; 5626.8; 08-APR-2008 13:38:18; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;31927
 15; 5761.6; 08-APR-2008 13:40:33; Dark ; 37.5; 31; Alp Gru ; 1.73; 15200;occ; 75; 0;31927
 16; 5913.7; 08-APR-2008 13:43:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;31927
 17; 6489.4; 08-APR-2008 13:52:41; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;31927
 18; 6609.2; 08-APR-2008 13:54:41; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;31927
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 20; 6871.7; 08-APR-2008 13:59:03; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;31927
 21; 6962.5; 08-APR-2008 14:00:34; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;31927
 22; 7083.4; 08-APR-2008 14:02:35; Dark ; 37.5; 64; Gam Cen ; 2.20; 10600;occ; 75; 0;31927
 23; 7244.4; 08-APR-2008 14:05:16; Dark ; 35.0; 123; Iot Cen ; 2.75; 10200;occ; 70; 0;31927
 24; 7517.9; 08-APR-2008 14:09:49; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;31927

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 4; 2262.9; 08-APR-2008 14:22:50; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;31928
 5; 2665.2; 08-APR-2008 14:29:32; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;31928
 6; 2828.2; 08-APR-2008 14:32:15; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31928
 7; 2955.8; 08-APR-2008 14:34:23; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;31928
 8; 3441.7; 08-APR-2008 14:42:29; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;31928
 9; 3846.8; 08-APR-2008 14:49:14; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;31928
 10; 3929.4; 08-APR-2008 14:50:37; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;31928
 11; 4460.0; 08-APR-2008 14:59:27; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;31928
 12; 5010.9; 08-APR-2008 15:08:38; Dark ; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;31928
 13; 5300.1; 08-APR-2008 15:13:27; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;31928
 14; 5445.4; 08-APR-2008 15:15:53; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;31928
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 16; 5627.1; 08-APR-2008 15:18:54; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;31928
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23; 7252.7; 10-APR-2008 11:21:34; Dark ; 39.0; 123; Tot Cen ; 2.75; 10200;occ; 78; 0;31954
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13; 5768.9; 10-APR-2008 12:37:26; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;31955
14; 5927.3; 10-APR-2008 12:40:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;31955
15; 6052.4; 10-APR-2008 12:42:10; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;31955

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 17; 6622.4; 10-APR-2008 12:51:40; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;31955
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 13; 5449.5; 10-APR-2008 14:12:43; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;31956
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 5; 2266.2; 10-APR-2008 16:40:51; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;31958
 6; 2666.7; 10-APR-2008 16:47:32; Bright; 33.5; 174; 52Psi UMa ; 3.00; 4400;occ; 67; 0;31958
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12; 4464.6; 10-APR-2008 17:17:30; Bright; 34.0; 164; 44Eta Peg ; 2.95; 5400;occ; 68; 0;31958
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23; 6877.3; 10-APR-2008 17:57:42; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;31958
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8; 2824.7; 10-APR-2008 18:30:46; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;31959
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13; 4464.7; 10-APR-2008 18:58:06; Bright; 35.0; 164; 44Eta Peg ; 2.95; 5400;occ; 70; 0;31959
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9;	2676.7;	16-APR-2008	18:39:47;	Bright;		52.0;	174;	52Psi UMa	;	3.00;	4400;occ;	104;	0;	32045
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26;	7540.3;	17-APR-2008	12:46:49;	Dark	;	41.5;	106;	9Bet Crv	;	2.65;	5600;occ;	83;	0;	32055
27;	7658.9;	17-APR-2008	12:48:48;	Bright;	38.0;	163;	7Del Crv	;	2.94;	11000;occ;	76;	0;	32055	

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2;	1876.9;	17-APR-2008	12:53:02;	Bright;	38.0;	121;	29Gam Vir	;	2.74;	7200;occ;	76;	0;	32056	
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4;	2284.0;	17-APR-2008	12:59:49;	Bright;	35.5;	96;	68Del Leo	;	2.56;	9300;occ;	71;	0;	32056	
5;	2581.9;	17-APR-2008	13:04:47;	Bright;	36.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	72;	0;	32056	
6;	2678.6;	17-APR-2008	13:06:23;	Bright;	37.0;	174;	52Psi UMa	;	3.00;	4400;occ;	74;	0;	32056	
7;	2819.5;	17-APR-2008	13:08:44;	Bright;	35.5;	87;	64Gam UMa	;	2.43;	11000;occ;	71;	0;	32056	
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9;	3443.0;	17-APR-2008	13:19:08;	Bright;	33.0;	49;	1Alp UMi	;	1.99;	6300;occ;	66;	0;	32056	
10;	3881.1;	17-APR-2008	13:26:26;	Bright;	32.5;	110;	37Del Cas	;	2.68;	8900;occ;	65;	0;	32056	
11;	3974.3;	17-APR-2008	13:27:59;	Bright;	34.5;	68;	18Alp Cas	;	2.22;	4500;occ;	69;	0;	32056	
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21;	6542.1;	17-APR-2008	14:10:47;	Dark	;	40.5;	43;	Alp TrA	;	1.91;	4250;occ;	81;	0;	32056
22;	6669.0;	17-APR-2008	14:12:54;	Dark	;	38.0;	134;	Bet TrA	;	2.81;	6600;occ;	76;	0;	32056
23;	6810.3;	17-APR-2008	14:15:15;	Dark	;	42.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	84;	0;	32056
24;	6935.4;	17-APR-2008	14:17:20;	Dark	;	36.0;	20;	Bet Cru	;	1.25;	30000;occ;	72;	0;	32056
25;	7112.7;	17-APR-2008	14:20:18;	Dark	;	39.5;	64;	Gam Cen	;	2.20;	10600;occ;	79;	0;	32056
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3;	1877.0;	17-APR-2008	14:33:38;	Bright;	37.5;	121;	29Gam Vir	;	2.74;	7200;occ;	75;	0;	32057	
4;	2163.7;	17-APR-2008	14:38:24;	Bright;	34.0;	62;	94Bet Leo	;	2.14;	9700;occ;	68;	0;	32057	
5;	2284.2;	17-APR-2008	14:40:25;	Bright;	33.5;	96;	68Del Leo	;	2.56;	9300;occ;	67;	0;	32057	
6;	2581.6;	17-APR-2008	14:45:22;	Bright;	37.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	74;	0;	32057	
7;	2678.9;	17-APR-2008	14:47:00;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	32057	
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9;	2963.9;	17-APR-2008	14:51:45;	Bright;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	32057	
10;	3443.2;	17-APR-2008	14:59:44;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	32057	
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12;	3974.6;	17-APR-2008	15:08:35;	Bright;	34.0;	68;	18Alp Cas	;	2.22;	4500;occ;	68;	0;	32057	


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17; 5576.8; 17-APR-2008 15:35:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32057
18; 5682.1; 17-APR-2008 15:37:03; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;32057
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23; 6669.4; 17-APR-2008 15:53:30; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;32057
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23; 5991.2; 17-APR-2008 19:03:24; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;32059

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19; 5998.0; 19-APR-2008 18:00:16; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;32087
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11; 3443.3; 19-APR-2008 18:58:18; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;32088
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2;	-339.8;	20-APR-2008	00:37:38;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	32091
3;	-220.9;	20-APR-2008	00:39:37;	Dark	;	42.0;	31;	Alp	Gru	;	1.73;	15200;occ;	84;	0;	32091
4;	-37.1;	20-APR-2008	00:42:41;	Dark	;	41.0;	148;	Alp	Tuc	;	2.88;	4100;occ;	82;	0;	32091
5;	88.1;	20-APR-2008	00:44:46;	Dark	;	39.0;	45;	Alp	Pav	;	1.94;	26000;occ;	78;	0;	32092
6;	519.9;	20-APR-2008	00:51:58;	Dark	;	41.5;	43;	Alp	TrA	;	1.91;	4250;occ;	83;	0;	32092
7;	648.1;	20-APR-2008	00:54:06;	Dark	;	39.5;	134;	Bet	TrA	;	2.81;	6600;occ;	79;	0;	32092
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9;	905.2;	20-APR-2008	00:58:23;	Dark	;	41.5;	20;	Bet	Cru	;	1.25;	30000;occ;	83;	0;	32092
10;	1083.2;	20-APR-2008	01:01:21;	Dark	;	39.5;	64;	Gam	Cen	;	2.20;	10600;occ;	79;	0;	32092
11;	1253.7;	20-APR-2008	01:04:12;	Dark	;	38.0;	123;	Iot	Cen	;	2.75;	10200;occ;	76;	0;	32092
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13;	1628.5;	20-APR-2008	01:10:27;	Bright;	;	37.5;	163;	7Del	Crv	;	2.94;	11000;occ;	75;	0;	32092
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15;	2168.4;	20-APR-2008	01:19:26;	Bright;	;	35.0;	62;	94Bet	Leo	;	2.14;	9700;occ;	70;	0;	32092
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18;	2819.4;	20-APR-2008	01:30:17;	Bright;	;	35.5;	87;	64Gam	UMa	;	2.43;	11000;occ;	71;	0;	32092
19;	2967.9;	20-APR-2008	01:32:46;	Bright;	;	36.0;	36;	50Alp	UMa	;	1.80;	6300;occ;	72;	0;	32092
20;	3443.3;	20-APR-2008	01:40:41;	Bright;	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	70;	0;	32092
21;	3889.3;	20-APR-2008	01:48:07;	Bright;	;	45.5;	110;	37Del	Cas	;	2.68;	8900;occ;	91;	0;	32092
22;	3980.3;	20-APR-2008	01:49:38;	Bright;	;	35.0;	68;	18Alp	Cas	;	2.22;	4500;occ;	70;	0;	32092
23;	4510.7;	20-APR-2008	01:58:29;	Bright;	;	37.5;	93;	53Bet	Peg	;	2.52;	3100;occ;	75;	0;	32092
24;	4732.4;	20-APR-2008	02:02:11;	Dark	;	42.0;	90;	54Alp	Peg	;	2.49;	11000;occ;	84;	0;	32092
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2;	-339.7;	20-APR-2008	02:18:14;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	32092
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5;	88.7;	20-APR-2008	02:25:23;	Dark	;	40.5;	45;	Alp	Pav	;	1.94;	26000;occ;	81;	0;	32093
6;	520.2;	20-APR-2008	02:32:34;	Dark	;	38.0;	43;	Alp	TrA	;	1.91;	4250;occ;	76;	0;	32093
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11;	1254.0;	20-APR-2008	02:44:48;	Dark	;	38.5;	123;	Iot	Cen	;	2.75;	10200;occ;	77;	0;	32093
12;	1510.7;	20-APR-2008	02:49:05;	Dark	;	41.5;	106;	9Bet	Crv	;	2.65;	5600;occ;	83;	0;	32093
13;	1628.6;	20-APR-2008	02:51:03;	Bright;	;	35.0;	163;	7Del	Crv	;	2.94;	11000;occ;	70;	0;	32093
14;	1879.0;	20-APR-2008	02:55:13;	Bright;	;	37.0;	121;	29Gam	Vir	;	2.74;	7200;occ;	74;	0;	32093
15;	2168.5;	20-APR-2008	03:00:02;	Bright;	;	39.0;	62;	94Bet	Leo	;	2.14;	9700;occ;	78;	0;	32093
16;	2292.9;	20-APR-2008	03:02:07;	Bright;	;	35.0;	96;	68Del	Leo	;	2.56;	9300;occ;	70;	0;	32093
17;	2685.5;	20-APR-2008	03:08:39;	Bright;	;	35.5;	174;	52Psi	UMa	;	3.00;	4400;occ;	71;	0;	32093
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19;	2968.2;	20-APR-2008	03:13:22;	Bright;	;	36.5;	36;	50Alp	UMa	;	1.80;	6300;occ;	73;	0;	32093
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6;	-339.6;	20-APR-2008	03:58:50;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	32093
7;	-219.9;	20-APR-2008	04:00:50;	Dark	;	39.5;	31;	Alp	Gru	;	1.73;	15200;occ;	79;	0;	32093
8;	-36.4;	20-APR-2008	04:03:53;	Dark	;	44.0;	148;	Alp	Tuc	;	2.88;	4100;occ;	88;	0;	32093
9;	89.5;	20-APR-2008	04:05:59;	Dark	;	39.5;	45;	Alp	Pav	;	1.94;	26000;occ;	79;	0;	32094
10;	520.8;	20-APR-2008	04:13:11;	Dark	;	40.5;	43;	Alp	TrA	;	1.91;	4250;occ;	81;	0;	32094
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14;	1083.9;	20-APR-2008	04:22:34;	Dark	;	38.5;	64;	Gam	Cen	;	2.20;	10600;occ;	77;	0;	32094
15;	1254.3;	20-APR-2008	04:25:24;	Dark	;	39.0;	123;	Iot	Cen	;	2.75;	10200;occ;	78;	0;	32094
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 6; 2727.0; 30-APR-2008 12:58:35; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32242
 7; 2832.6; 30-APR-2008 13:00:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;32242
 8; 2916.5; 30-APR-2008 13:01:44; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;32242
 9; 2995.6; 30-APR-2008 13:03:03; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;32242
 10; 3444.8; 30-APR-2008 13:10:32; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32242
 11; 3917.9; 30-APR-2008 13:18:25; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;32242
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 13; 5243.7; 30-APR-2008 13:40:31; Dark ; 39.0; 52; 16Bet Cet ; 2.04; 4500;occ; 78; 0;32242
 14; 5541.7; 30-APR-2008 13:45:29; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;32242
 15; 5667.9; 30-APR-2008 13:47:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32242
 16; 5887.5; 30-APR-2008 13:51:15; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;32242
 17; 6045.1; 30-APR-2008 13:53:53; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;32242
 18; 6216.2; 30-APR-2008 13:56:44; Dark ; 29.0; 45; Alp Pav ; 1.94; 26000;occ; 58; 0;32242
 19; 6612.8; 30-APR-2008 14:03:20; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;32242
 20; 6744.7; 30-APR-2008 14:05:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32242
 21; 6868.2; 30-APR-2008 14:07:36; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;32242
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 23; 7073.3; 30-APR-2008 14:11:01; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;32242
 24; 7166.0; 30-APR-2008 14:12:34; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;32242
 25; 7291.4; 30-APR-2008 14:14:39; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;32242
 26; 7548.6; 30-APR-2008 14:18:56; Dark ; 19.0; 169; 46Gam Hya ; 2.99; 4700;occ; 38; 0;32242

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 7; 2727.4; 30-APR-2008 14:39:11; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32243
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 9; 2916.9; 30-APR-2008 14:42:20; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;32243
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 11; 3444.9; 30-APR-2008 14:51:08; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32243
 12; 3918.2; 30-APR-2008 14:59:02; Bright; 48.5; 110; 37Del Cas ; 2.68; 8900;occ; 97; 0;32243
 13; 4000.5; 30-APR-2008 15:00:24; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;32243
 14; 5243.9; 30-APR-2008 15:21:07; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;32243
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 16; 5668.5; 30-APR-2008 15:28:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32243
 17; 5888.1; 30-APR-2008 15:31:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;32243
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 19; 6216.9; 30-APR-2008 15:37:20; Dark ; 25.0; 45; Alp Pav ; 1.94; 26000;occ; 50; 0;32243
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 23; 6961.1; 30-APR-2008 15:49:45; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0;32243
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 25; 7166.4; 30-APR-2008 15:53:10; Dark ; 38.0; 81; Eta Cen ; 2.36; 28000;occ; 76; 0;32243
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6; 2202.7; 30-APR-2008 16:11:02; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32244
7; 2559.8; 30-APR-2008 16:16:59; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;32244
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13; 3918.1; 30-APR-2008 16:39:38; Bright; 32.0; 110; 37Del Cas ; 2.68; 8900;occ; 64; 0;32244
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17; 5669.2; 30-APR-2008 17:08:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32244
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19; 6045.8; 30-APR-2008 17:15:05; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;32244
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21; 6613.6; 30-APR-2008 17:24:33; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;32244
22; 6745.3; 30-APR-2008 17:26:45; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;32244
23; 6868.8; 30-APR-2008 17:28:48; Dark ; 47.0; 4; Alp1Cen ; -0.01; 5800;occ; 94; 0;32244
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3; 1256.0; 30-APR-2008 17:35:52; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;32245
4; 1513.0; 30-APR-2008 17:40:09; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;32245
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7; 2095.7; 30-APR-2008 17:49:51; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;32245
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10; 2728.1; 30-APR-2008 18:00:24; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;32245
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12; 2917.4; 30-APR-2008 18:03:33; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;32245
13; 2996.2; 30-APR-2008 18:04:52; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;32245
14; 3444.8; 30-APR-2008 18:12:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32245
15; 3918.2; 30-APR-2008 18:20:14; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;32245
16; 4000.6; 30-APR-2008 18:21:36; Bright; 32.5; 68; 18Alp Cas ; 2.22; 4500;occ; 65; 0;32245
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18; 5543.1; 30-APR-2008 18:47:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;32245
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23; 6745.7; 30-APR-2008 19:07:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;32245
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4; 1256.2; 30-APR-2008 19:16:28; Dark ; 40.5; 54; 5The Cen ; 2.06; 4500;occ; 81; 0;32246
5; 1513.1; 30-APR-2008 19:20:45; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;32246
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7; 1896.8; 30-APR-2008 19:27:08; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;32246
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9; 2203.2; 30-APR-2008 19:32:15; Bright; 35.5; 62; 94Bet Leo ; 2.14; 9700;occ; 71; 0;32246
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20;	5670.3;	30-APR-2008	20:30:02;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32246
21;	5889.6;	30-APR-2008	20:33:41;	Dark	;	41.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	83;	0;	32246
22;	6046.4;	30-APR-2008	20:36:18;	Dark	;	37.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	74;	0;	32246
23;	6614.1;	30-APR-2008	20:45:46;	Dark	;	38.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	76;	0;	32246
24;	6746.0;	30-APR-2008	20:47:58;	Dark	;	36.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	73;	0;	32246
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26;	6961.2;	30-APR-2008	20:51:33;	Dark	;	38.5;	20;	Bet	Cru	;	1.25;	30000;	occ;	77;	0;	32246