

GOMOS Daily Report 02-JUL-2004

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	03JUL2004 03:43:27
Data source version	GOMOS/4.02
Start time of products	02-JUL-2004 (02JUL2004 00:00:00)
Stop time of products	03-JUL-2004 (03JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

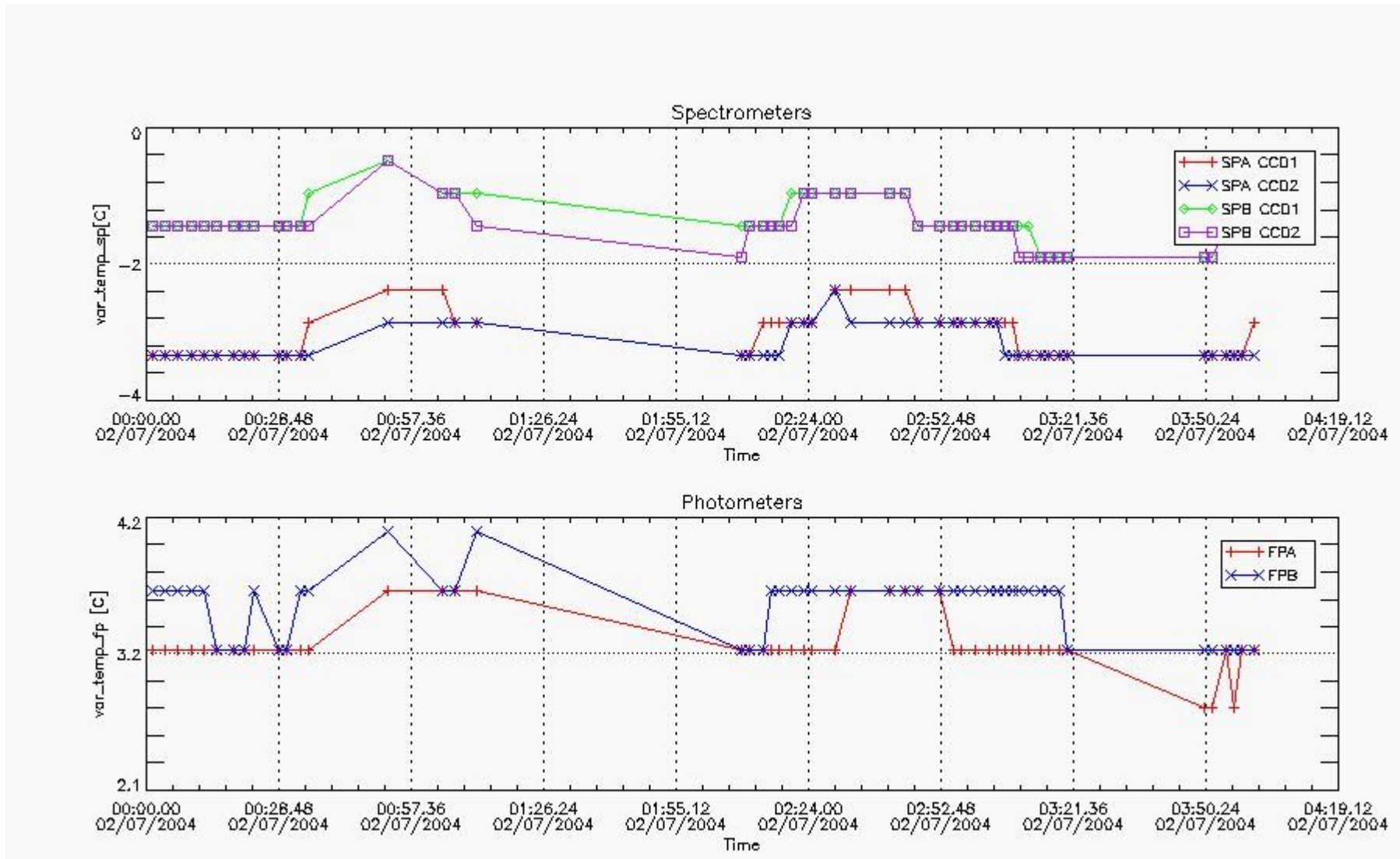
2. Summary of products arrived in PCF

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

2.2 Summary of processed GOM_TRA_1P products.

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040702_000111_000000422028_00145_12223_0018.N1	02-JUL-2004 00:01:11	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	12223	No
GOM_TRA_1PNPDE20040702_000358_000000372028_00145_12223_0019.N1	02-JUL-2004 00:03:58	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	12223	No
GOM_TRA_1PNPDE20040702_000641_000000382028_00145_12223_0020.N1	02-JUL-2004 00:06:41	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	12223	No
GOM_TRA_1PNPDE20040702_000956_000000422028_00145_12223_0021.N1	02-JUL-2004 00:09:56	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	12223	No
GOM_TRA_1PNPDE20040702_001239_000000372028_00145_12223_0022.N1	02-JUL-2004 00:12:39	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	12223	No
GOM_TRA_1PNPDE20040702_001506_000000362028_00145_12223_0023.N1	02-JUL-2004 00:15:06	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	12223	No
GOM_TRA_1PNPDE20040702_001906_000000412028_00145_12223_0024.N1	02-JUL-2004 00:19:06	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	12223	No
GOM_TRA_1PNPDE20040702_002125_000000452028_00145_12223_0025.N1	02-JUL-2004 00:21:25	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	12223	No
GOM_TRA_1PNPDE20040702_002315_000000402028_00145_12223_0026.N1	02-JUL-2004 00:23:15	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	12223	No
GOM_TRA_1PNPDE20040702_002848_000000682028_00145_12223_0027.N1	02-JUL-2004 00:28:48	Bright	67.500	74	11Bet Cas	2.2680	6600.0	135	12223	No
GOM_TRA_1PNPDE20040702_003025_000000552028_00145_12223_0028.N1	02-JUL-2004 00:30:25	Bright	55.000	110	37Del Cas	2.6780	8900.0	110	12223	No
GOM_TRA_1PNPDE20040702_003332_000000432028_00145_12223_0029.N1	02-JUL-2004 00:33:32	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	12223	No
GOM_TRA_1PNPDE20040702_003520_000000372028_00145_12223_0030.N1	02-JUL-2004 00:35:20	Twilight	36.500	175	39Del Per	3.0100	19400.	73	12223	No
GOM_TRA_1PNPDE20040702_005239_000000442028_00145_12223_0000.N1	02-JUL-2004 00:52:39	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	12223	No
GOM_TRA_1PNPDE20040702_010412_000000772028_00145_12223_0001.N1	02-JUL-2004 01:04:12	Dark	77.000	52	16Bet Cet	2.0370	4500.0	154	12223	No
GOM_TRA_1PNPDE20040702_010714_000000512028_00146_12224_0002.N1	02-JUL-2004 01:07:14	Dark	50.500	9	Alp Eri	0.45300	24000.	101	12224	No
GOM_TRA_1PNPDE20040702_011148_000000402028_00146_12224_0003.N1	02-JUL-2004 01:11:48	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12224	No
GOM_TRA_1PNPDE20040702_020924_000000512028_00146_12224_0000.N1	02-JUL-2004 02:09:24	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	12224	No
GOM_TRA_1PNPDE20040702_021100_000000442028_00146_12224_0001.N1	02-JUL-2004 02:11:00	Bright	44.000	110	37Del Cas	2.6780	8900.0	88	12224	No
GOM_TRA_1PNPDE20040702_021408_000000412028_00146_12224_0002.N1	02-JUL-2004 02:14:08	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	12224	No
GOM_TRA_1PNPDE20040702_021556_000000442028_00146_12224_0003.N1	02-JUL-2004 02:15:56	Twilight	44.000	175	39Del Per	3.0100	19400.	88	12224	No
GOM_TRA_1PNPDE20040702_021732_000000542028_00146_12224_0004.N1	02-JUL-2004 02:17:32	Twilight	54.000	73	57Gam1And	2.2600	13100.	108	12224	No
GOM_TRA_1PNPDE20040702_022009_000000762028_00146_12224_0005.N1	02-JUL-2004 02:20:09	Twilight	76.000	53	43Bet And	2.0480	3300.0	152	12224	No
GOM_TRA_1PNPDE20040702_022251_000000422028_00146_12224_0006.N1	02-JUL-2004 02:22:51	Twilight	42.000	146	25Eta Tau	2.8730	15200.	84	12224	No
GOM_TRA_1PNPDE20040702_022436_000000662028_00146_12224_0007.N1	02-JUL-2004 02:24:36	Twilight	65.500	50	13Alp Ari	2.0070	4250.0	131	12224	No
GOM_TRA_1PNPDE20040702_022935_000000502028_00146_12224_0008.N1	02-JUL-2004 02:29:35	Dark	50.000	94	92Alp Cet	2.5260	3100.0	100	12224	No
GOM_TRA_1PNPDE20040702_023315_000000422028_00146_12224_0009.N1	02-JUL-2004 02:33:15	Dark	42.000	165	34Gam Eri	2.9500	3200.0	84	12224	No
GOM_TRA_1PNPDE20040702_024143_000000402028_00146_12224_0010.N1	02-JUL-2004 02:41:43	Dark	40.000	157	The1Eri	2.9060	9300.0	80	12224	No
GOM_TRA_1PNPDE20040702_024450_000000972028_00146_12224_0011.N1	02-JUL-2004 02:44:50	Dark	97.000	52	16Bet Cet	2.0370	4500.0	194	12224	No
GOM_TRA_1PNPDE20040702_024751_000000452028_00147_12225_0012.N1	02-JUL-2004 02:47:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	12225	No
GOM_TRA_1PNPDE20040702_025225_000000392028_00147_12225_0013.N1	02-JUL-2004 02:52:25	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12225	No
GOM_TRA_1PNPDE20040702_025530_000000572028_00147_12225_0014.N1	02-JUL-2004 02:55:30	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12225	No
GOM_TRA_1PNPDE20040702_025719_000001032028_00147_12225_0015.N1	02-JUL-2004 02:57:19	Twilight	102.50	18	24Alp PsA	1.1660	9700.0	205	12225	No
GOM_TRA_1PNPDE20040702_030022_000000602028_00147_12225_0016.N1	02-JUL-2004 03:00:22	Twilight	60.000	172	Gam Gru	3.0030	13100.	120	12225	No
GOM_TRA_1PNPDE20040702_030324_000000422028_00147_12225_0017.N1	02-JUL-2004 03:03:24	Bright	41.500	141	Bet Ara	2.8400	4600.0	83	12225	No
GOM_TRA_1PNPDE20040702_030451_000000402028_00147_12225_0018.N1	02-JUL-2004 03:04:51	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12225	No
GOM_TRA_1PNPDE20040702_030639_000000452028_00147_12225_0019.N1	02-JUL-2004 03:06:39	Bright	44.500	40	The Sco	1.8590	7100.0	89	12225	No
GOM_TRA_1PNPDE20040702_030819_000000442028_00147_12225_0020.N1	02-JUL-2004 03:08:19	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	12225	No
GOM_TRA_1PNPDE20040702_030946_000000482028_00147_12225_0021.N1	02-JUL-2004 03:09:46	Bright	48.000	167	10Gam2Sgr	2.9840	4500.0	96	12225	No
GOM_TRA_1PNPDE20040702_031148_000000482028_00147_12225_0022.N1	02-JUL-2004 03:11:48	Bright	47.500	155	41Pi Sgr	2.9000	6600.0	95	12225	No
GOM_TRA_1PNPDE20040702_031430_000000412028_00147_12225_0023.N1	02-JUL-2004 03:14:30	Bright	40.500	86	35Eta Oph	2.4300	10200.	81	12225	No
GOM_TRA_1PNPDE20040702_031616_000000392028_00147_12225_0024.N1	02-JUL-2004 03:16:16	Bright	39.000	98	13Zet Oph	2.5710	30000.	78	12225	No
GOM_TRA_1PNPDE20040702_031828_000000382028_00147_12225_0025.N1	02-JUL-2004 03:18:28	Bright	37.500	120	1Del Oph	2.7340	3200.0	75	12225	No
GOM_TRA_1PNPDE20040702_032006_000000392028_00147_12225_0026.N1	02-JUL-2004 03:20:06	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12225	No
GOM_TRA_1PNPDE20040702_034958_000000512028_00147_12225_0000.N1	02-JUL-2004 03:49:58	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	12225	No
GOM_TRA_1PNPDE20040702_035137_000000412028_00147_12225_0001.N1	02-JUL-2004 03:51:37	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	12225	No
GOM_TRA_1PNPDE20040702_035444_000000422028_00147_12225_0002.N1	02-JUL-2004 03:54:44	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	12225	No
GOM_TRA_1PNPDE20040702_035631_000000362028_00147_12225_0003.N1	02-JUL-2004 03:56:31	Twilight	35.500	175	39Del Per	3.0100	19400.	71	12225	No
GOM_TRA_1PNPDE20040702_035810_000000542028_00147_12225_0004.N1	02-JUL-2004 03:58:10	Twilight	53.500	73	57Gam1And	2.2600	13100.	107	12225	No

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



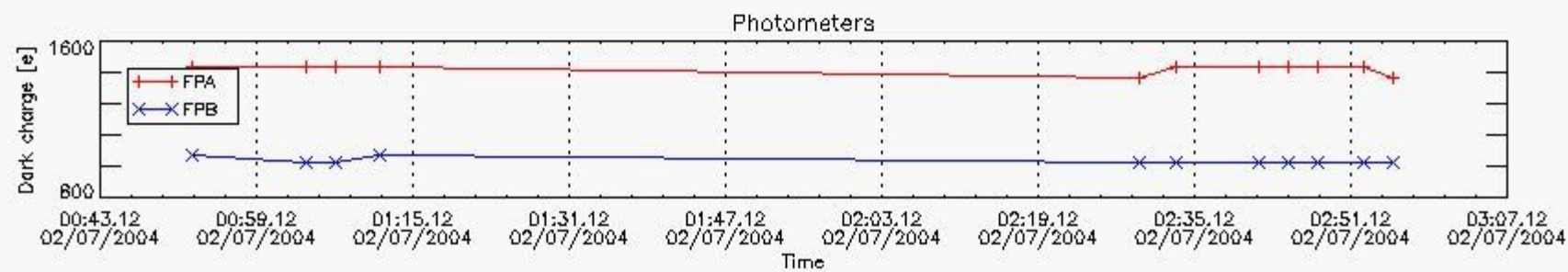
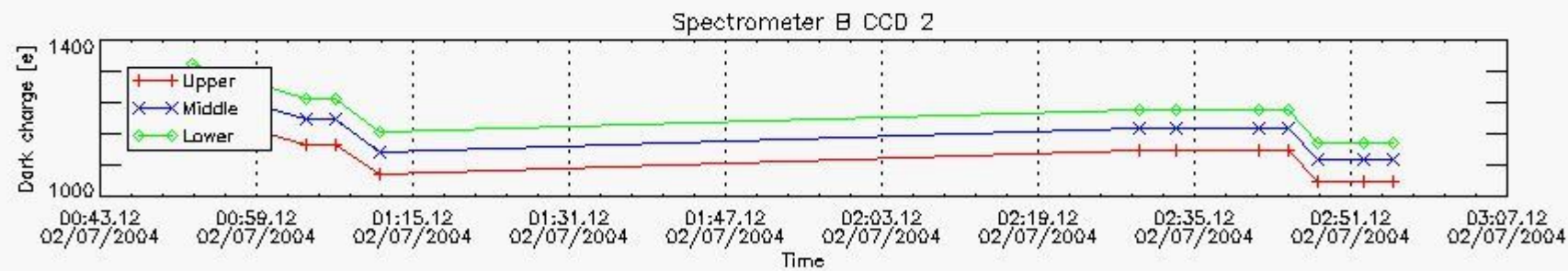
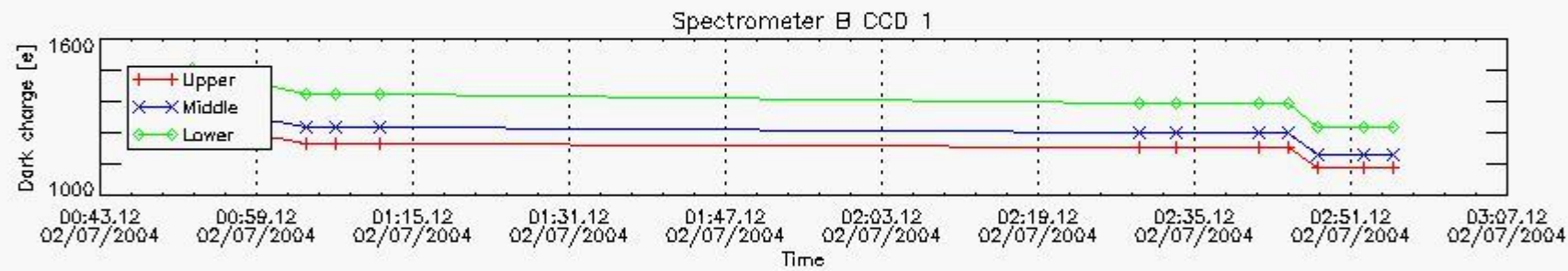
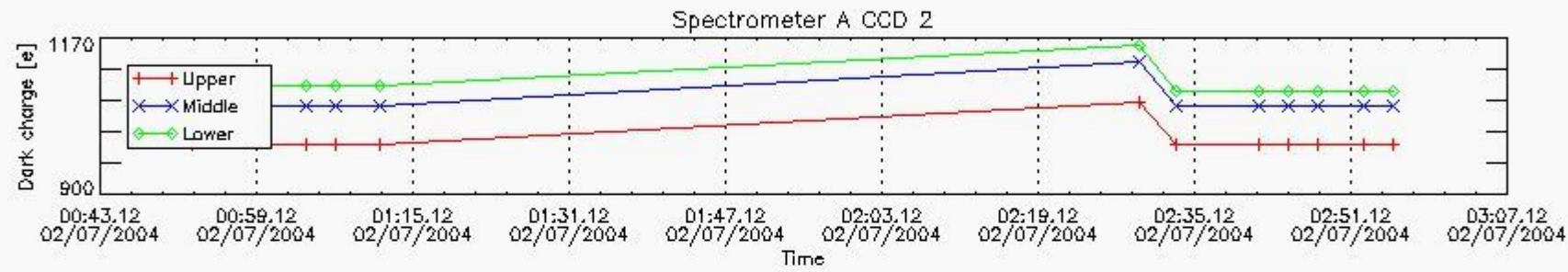
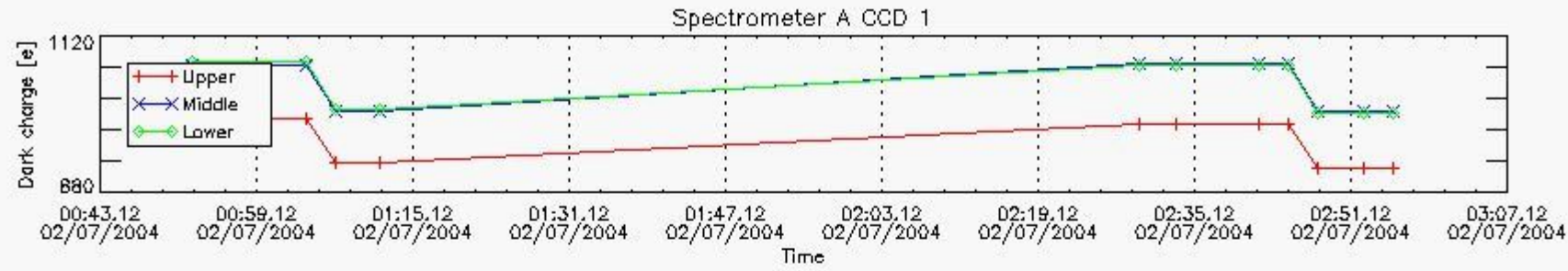
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



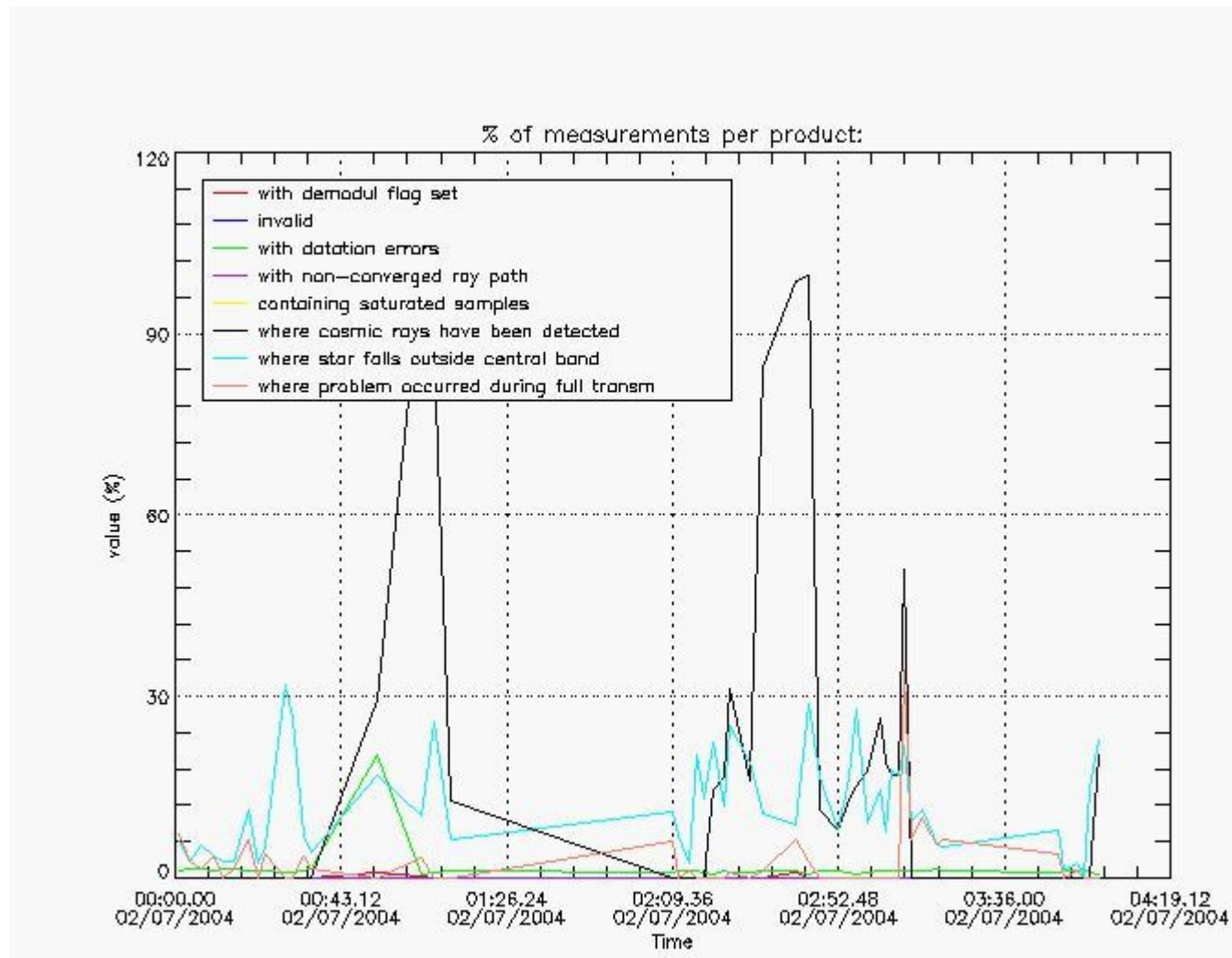
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

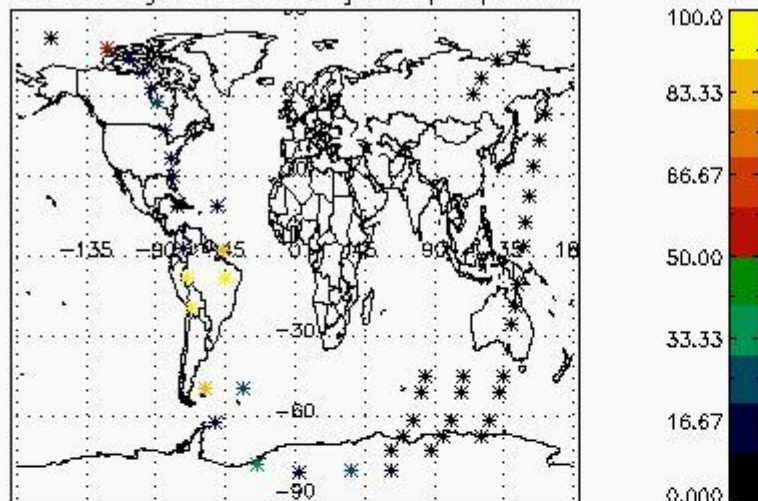
At least one measurement with demodulation flag set:	10.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

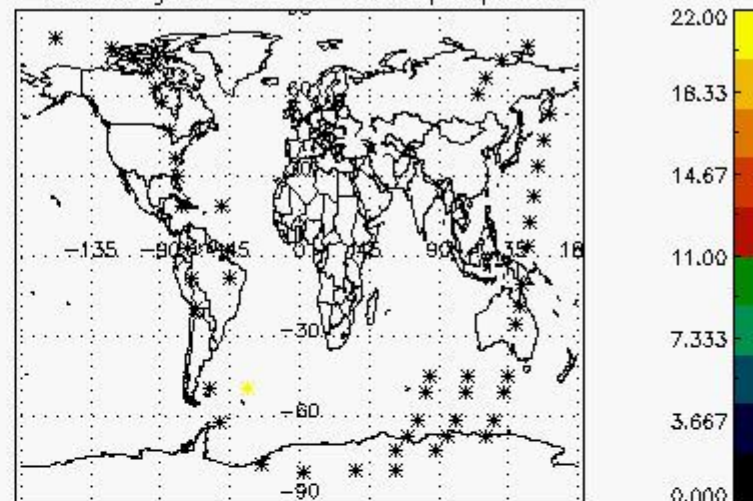


5.3 Plot quality information per product (world map)

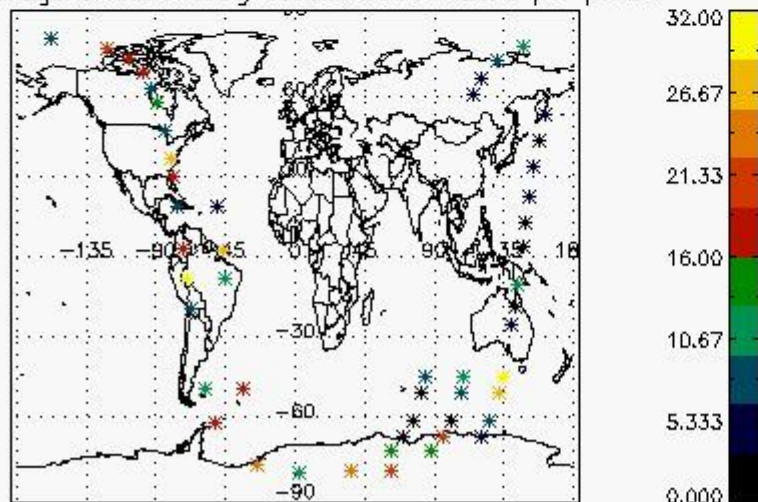
Percentage of cosmic ray hits per profile



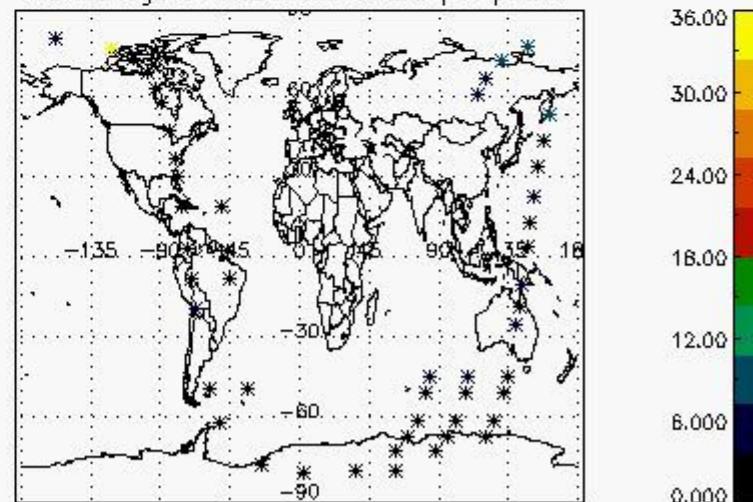
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



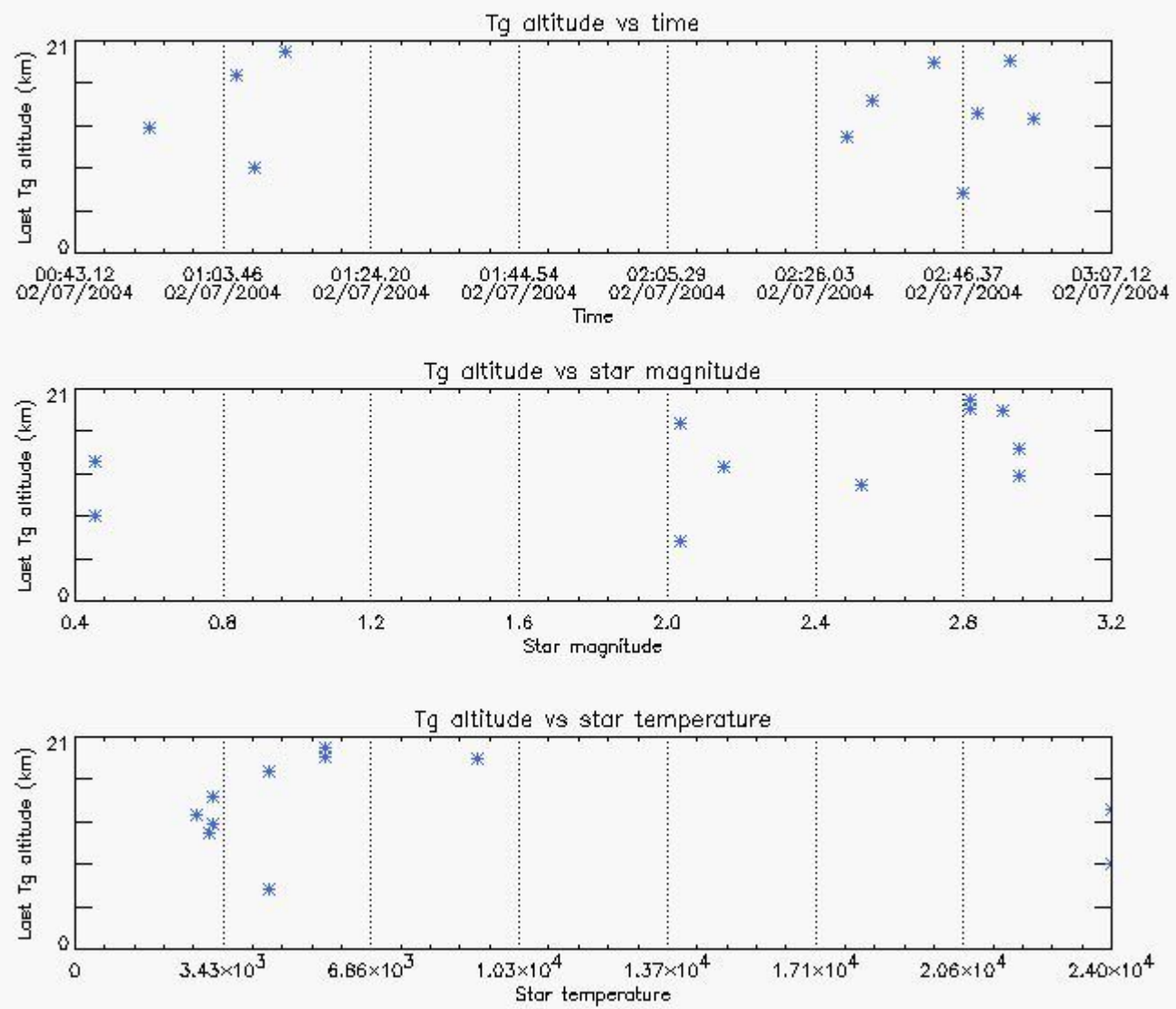
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.180	19.348	15.257
St. deviation:	4.5309	5.0543	6.8246
Maximum:	20.010	26.140	29.476
Minimum:	5.8910	5.6016	6.6100
Number of data:	11.000	28.000	11.000

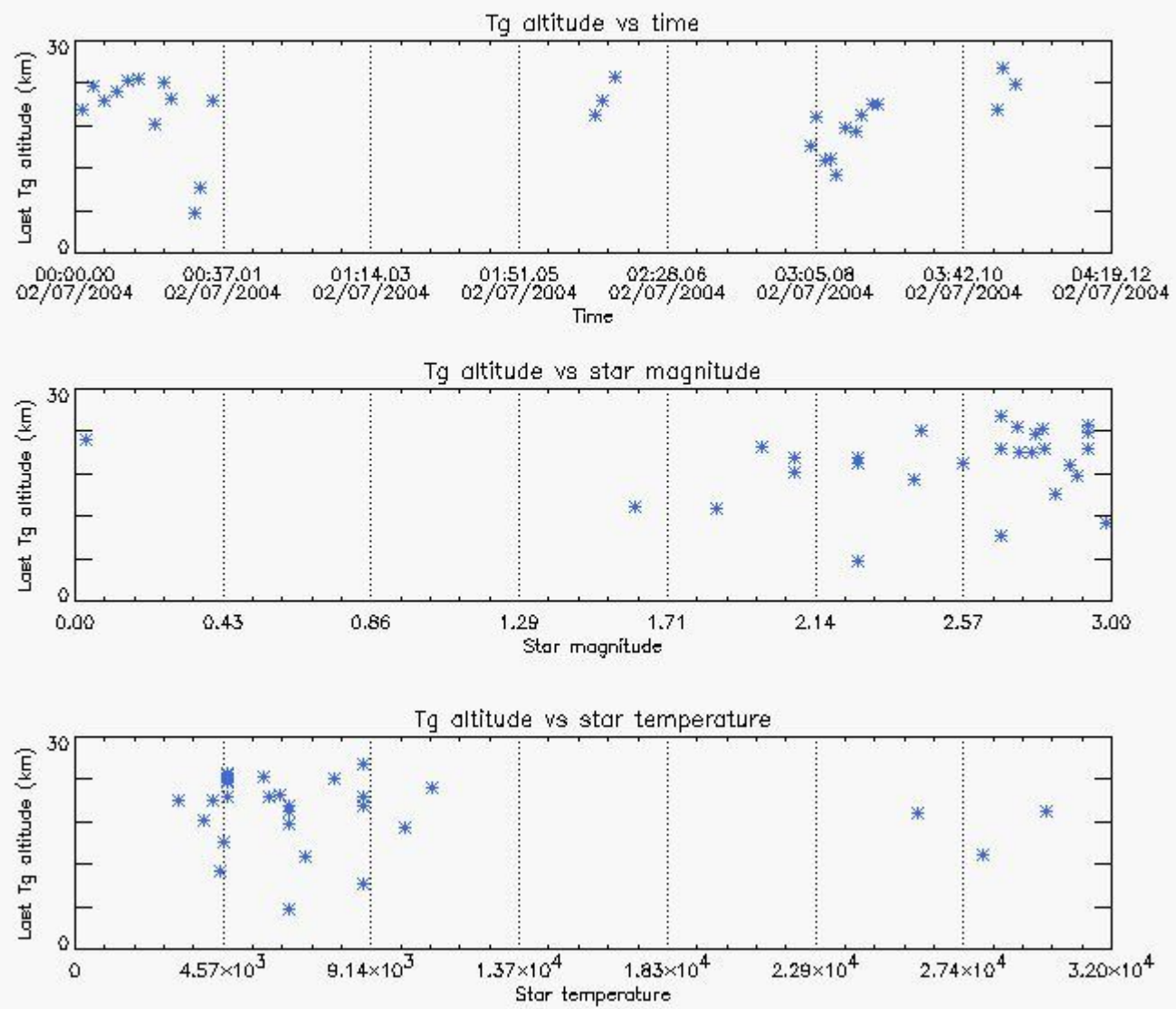
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



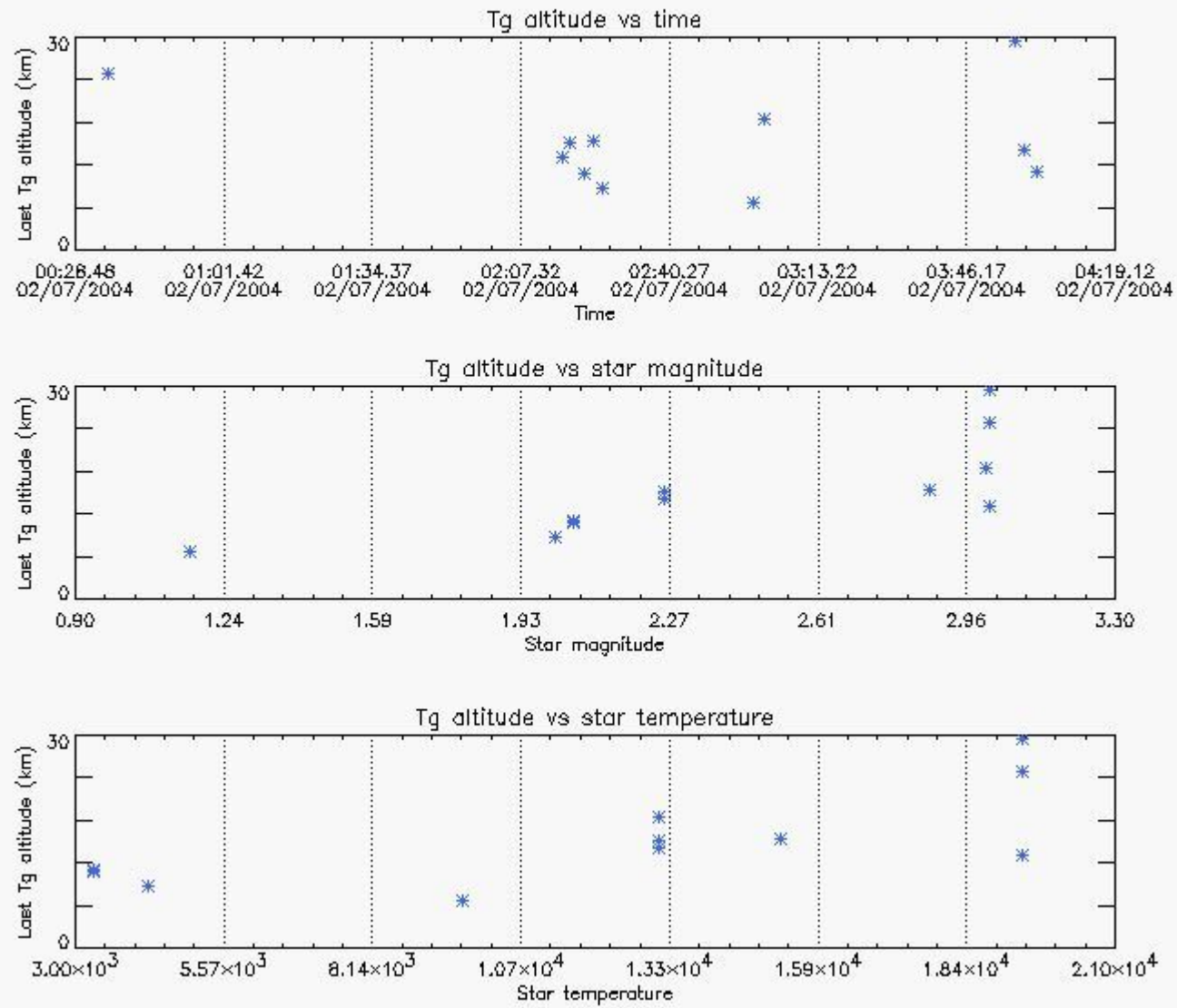
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

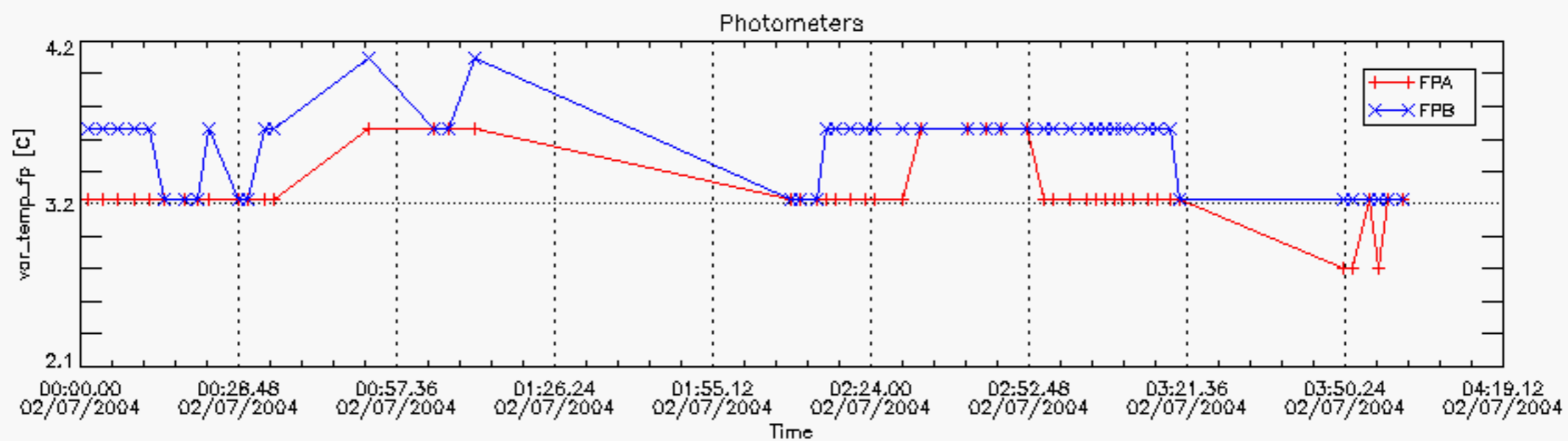
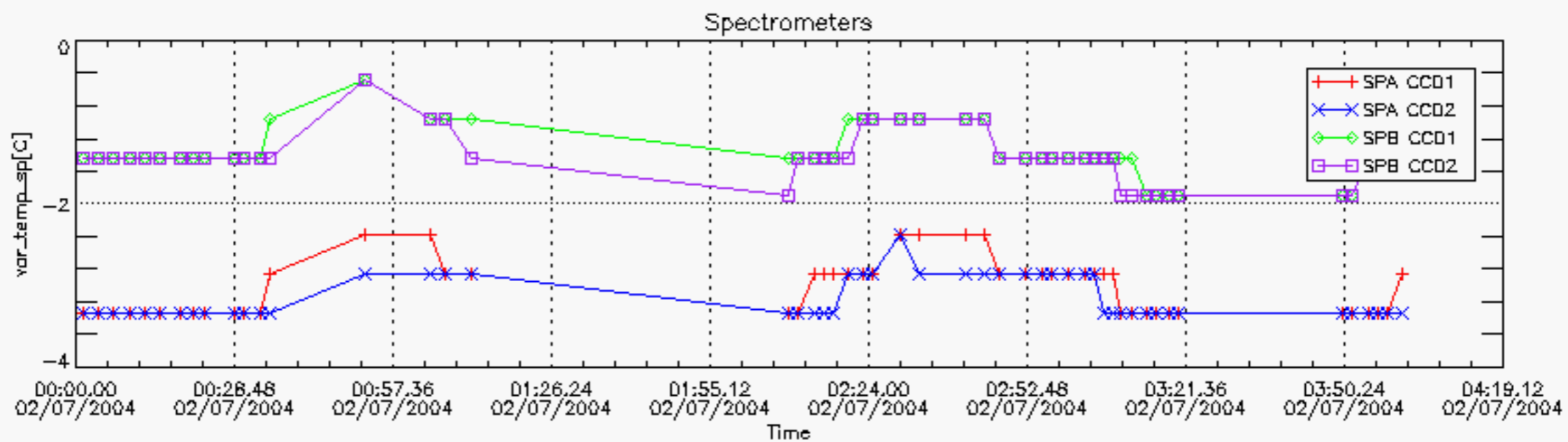
Tangent altitude at which the star is lost

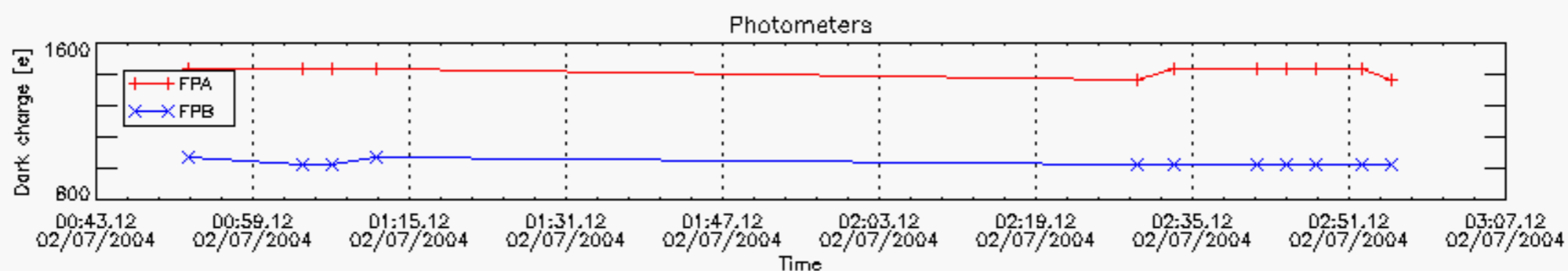
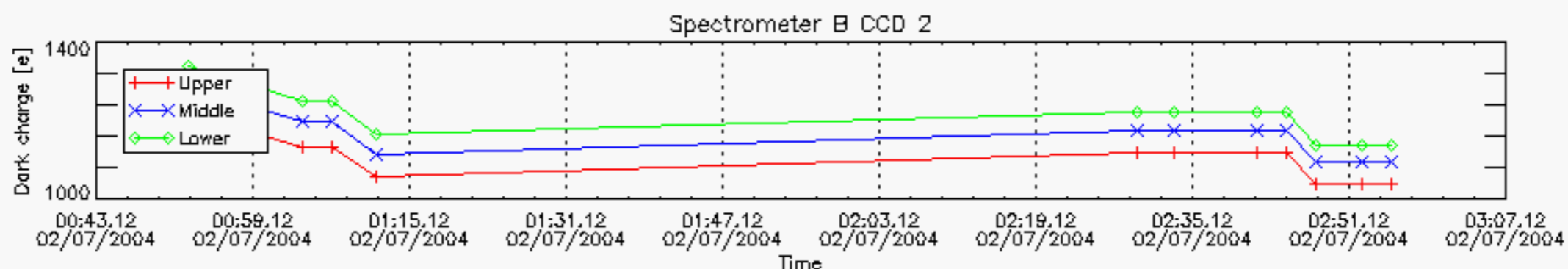
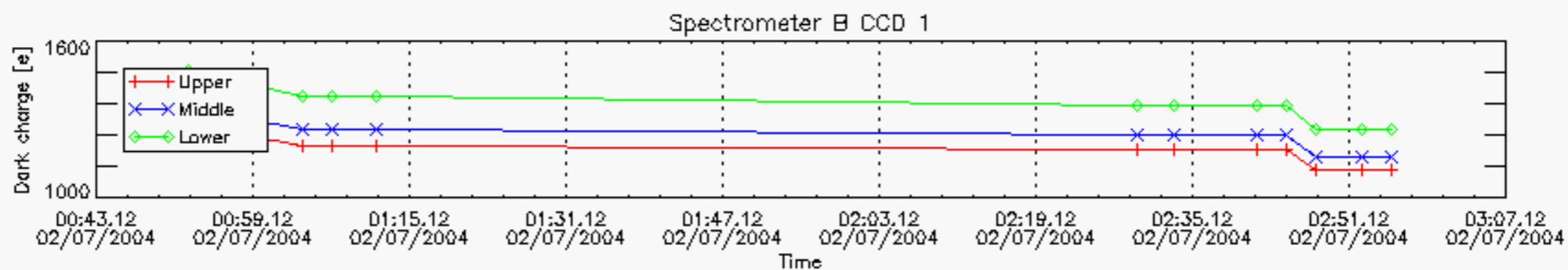
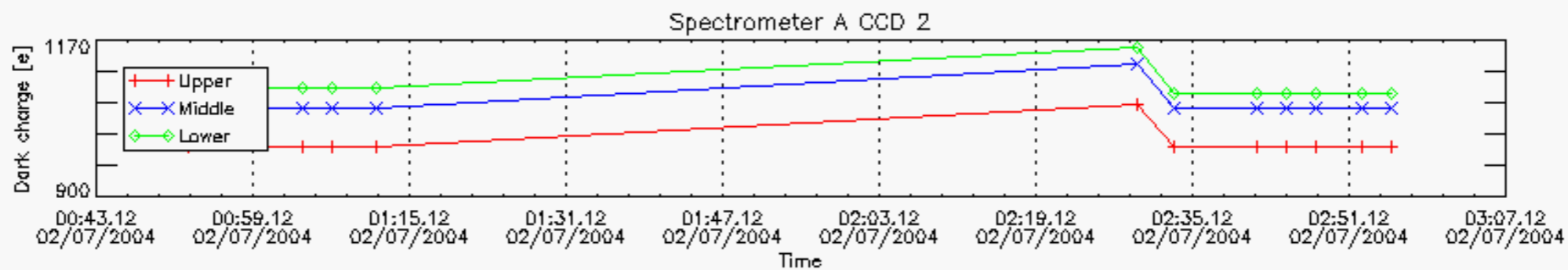
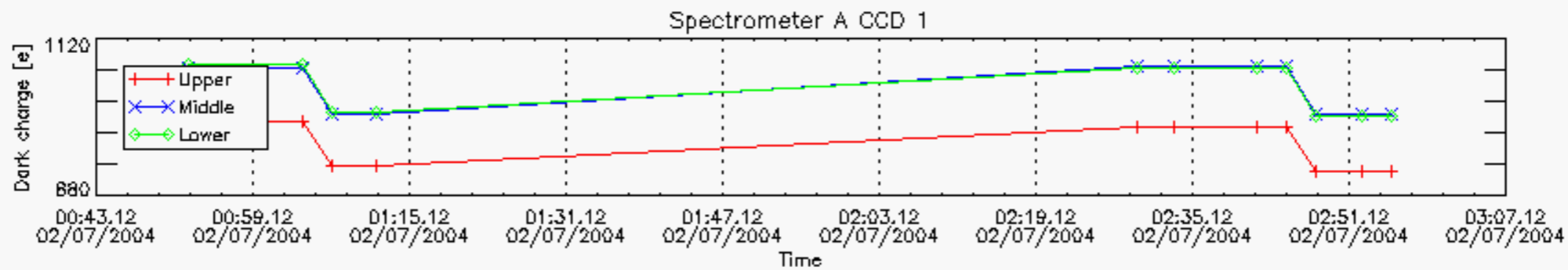


7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

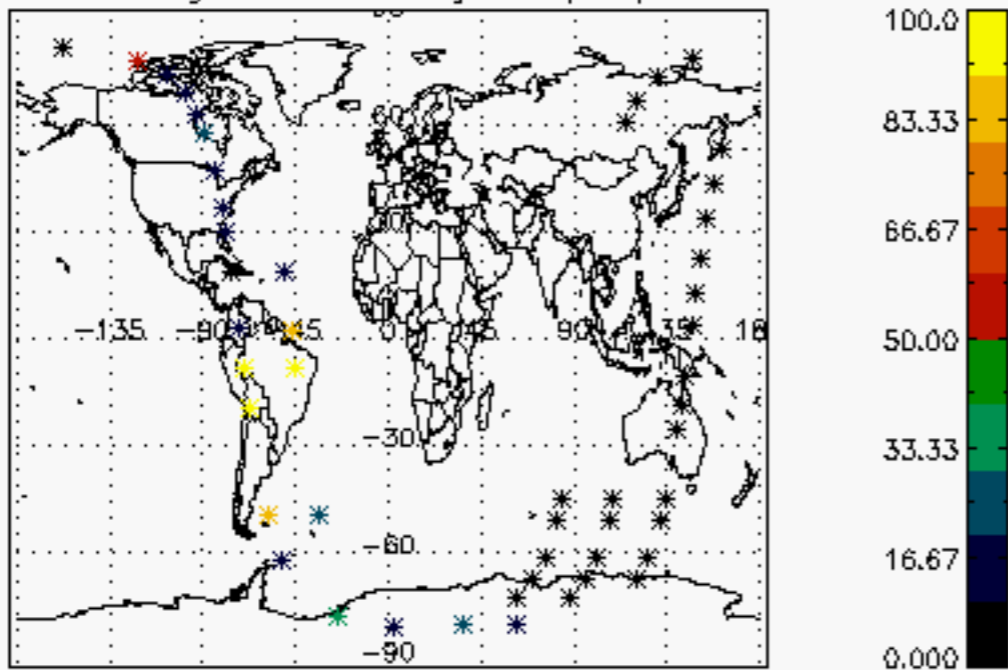
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.2	1448.7	1461.2	1446.7
St. deviation:	4.0817	5.0743	7.2499	7.8067
Maximum:	1560.0	1483.0	1502.0	1495.0
Minimum:	1447.0	1439.0	1433.0	1422.0
Number of data:	14550.	14550.	32500.	32500.

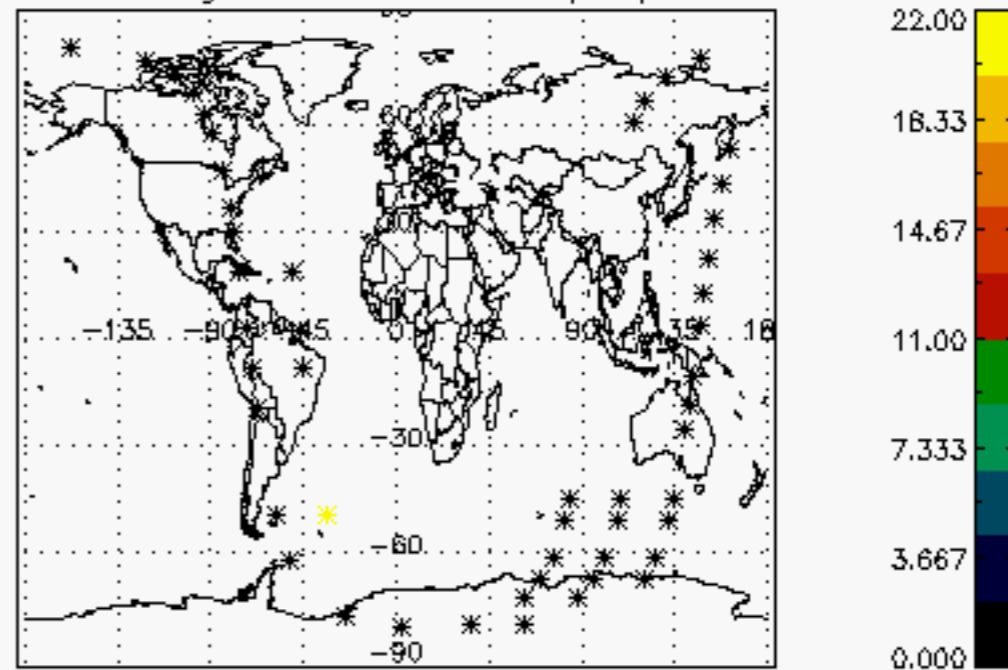




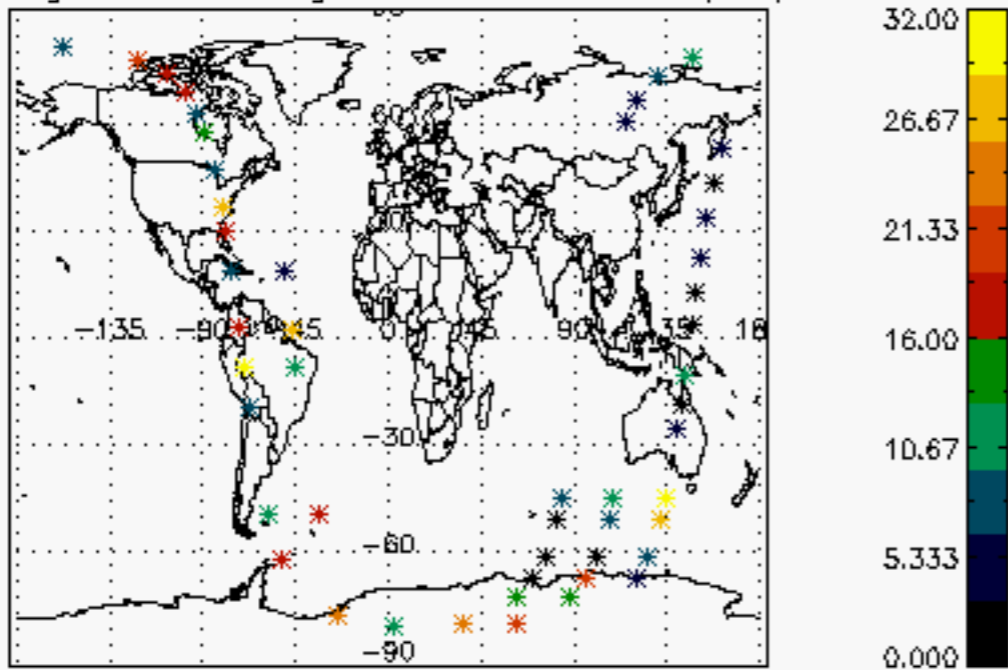
Percentage of cosmic ray hits per profile



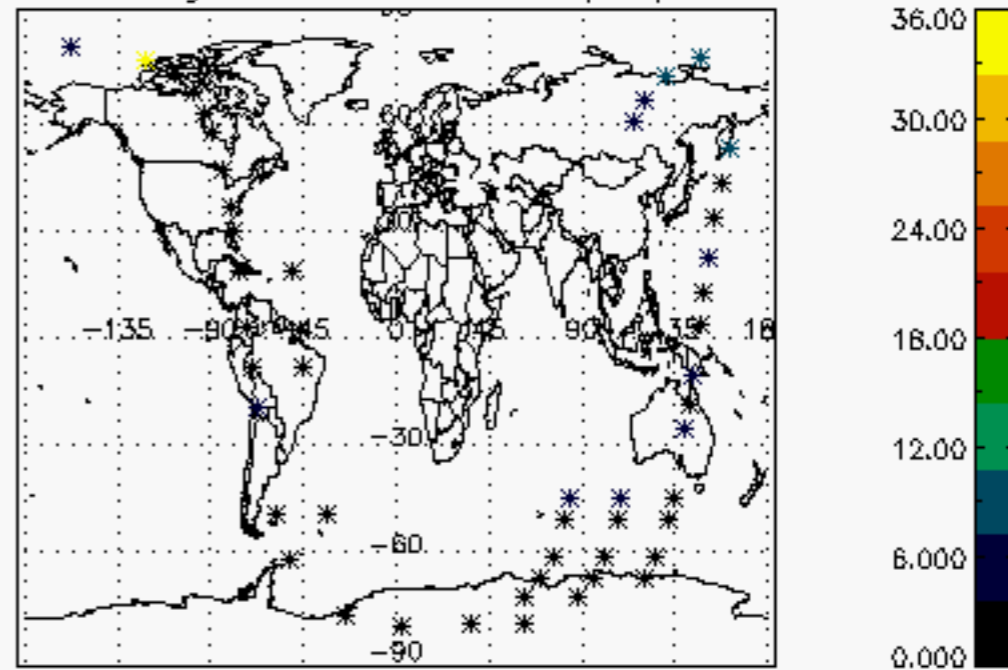
Percentage of datation errors per profile



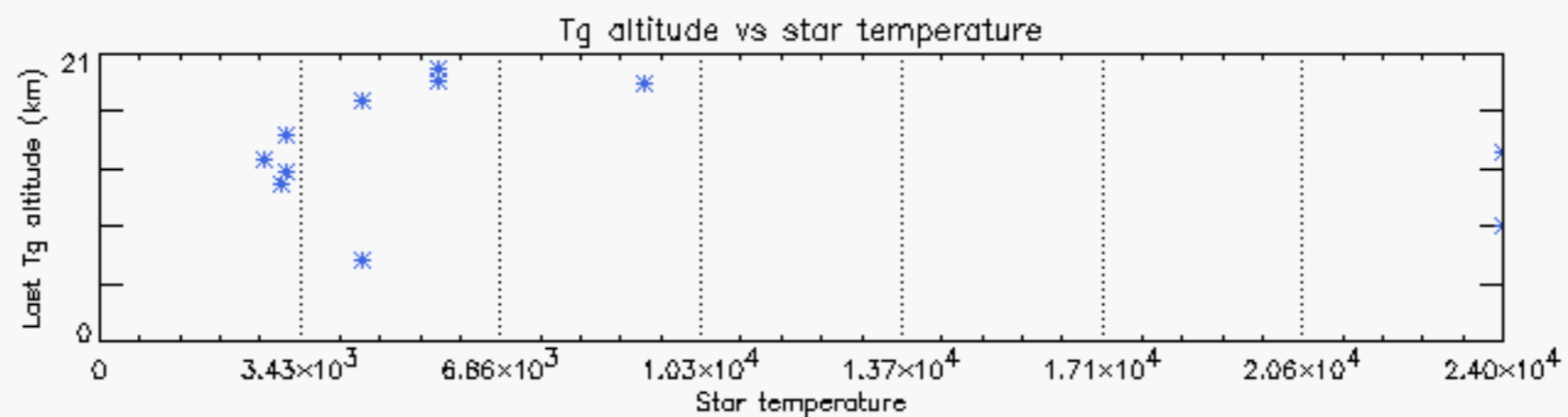
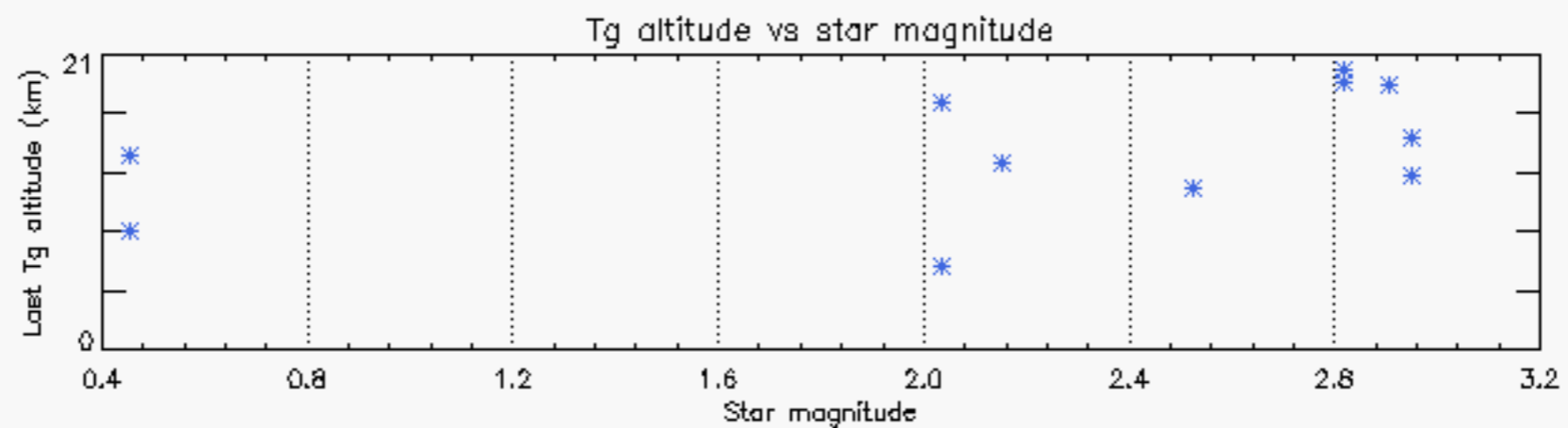
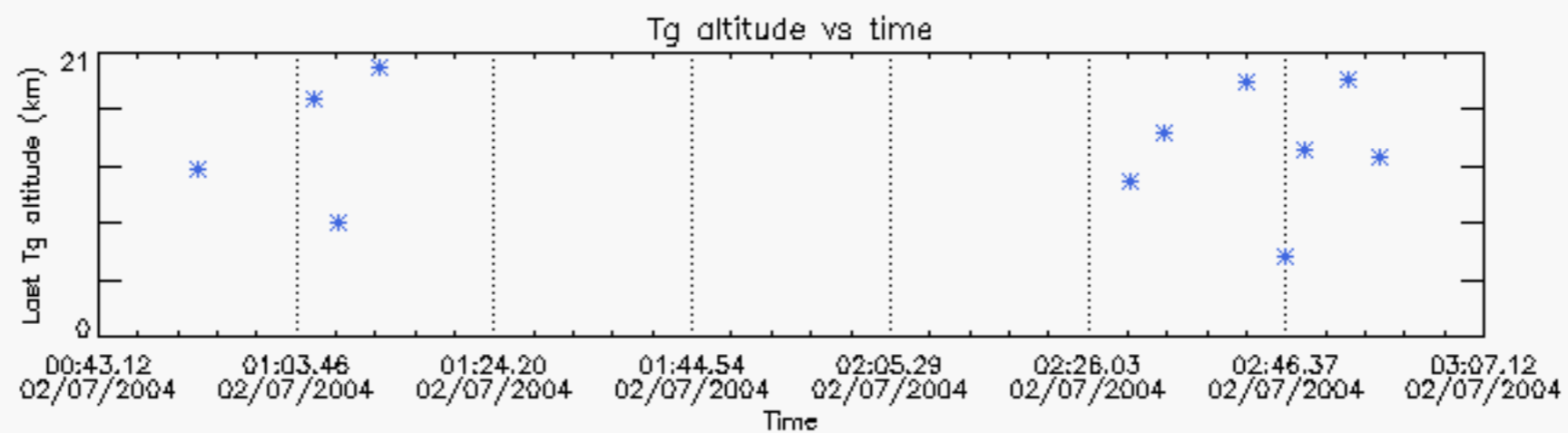
Percentage of star falling outside central band per profile



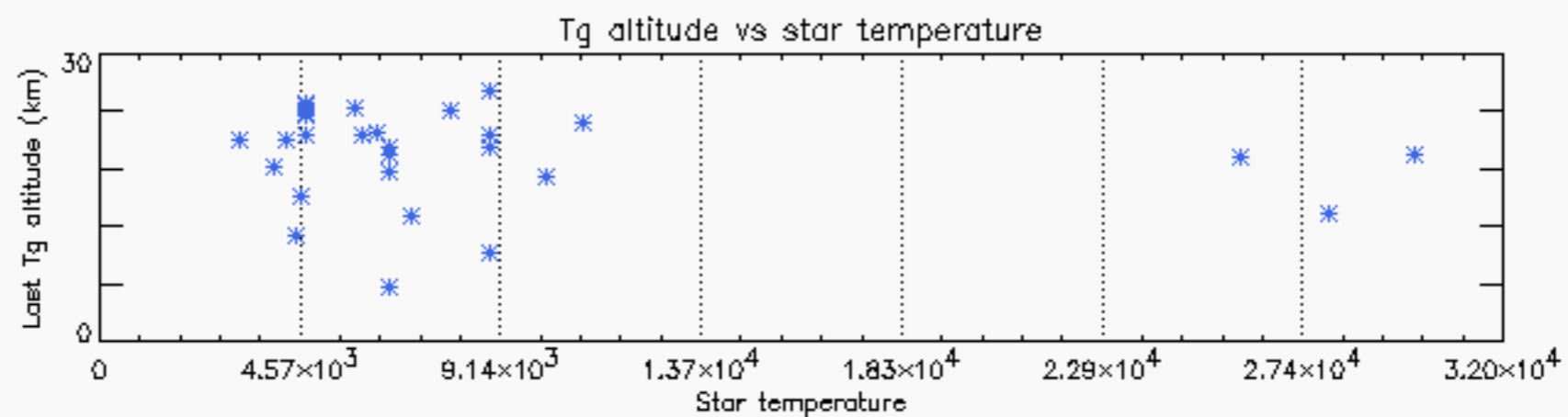
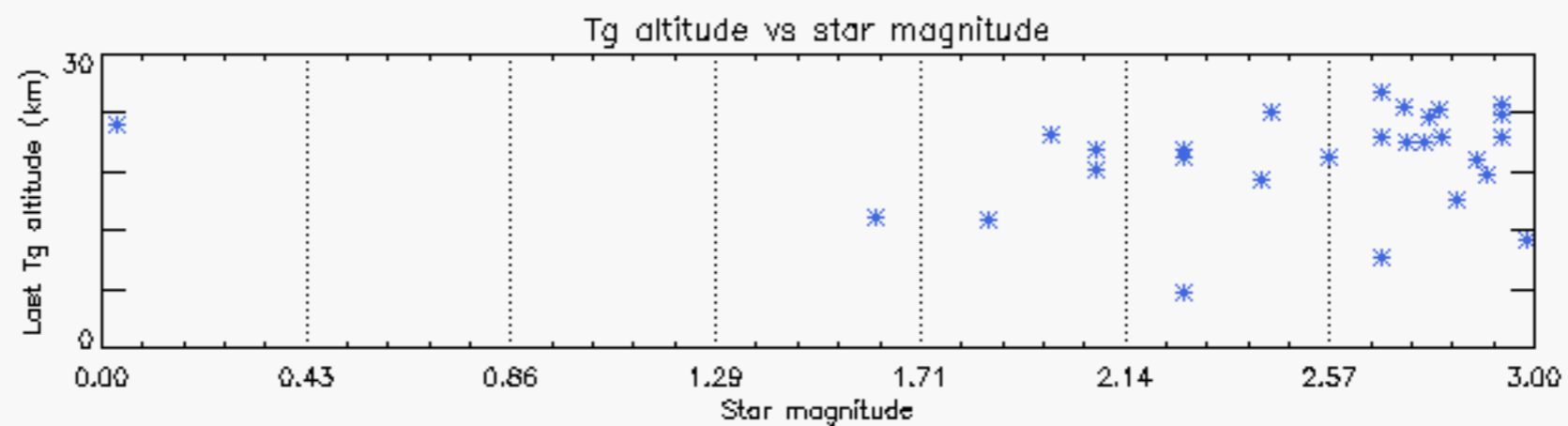
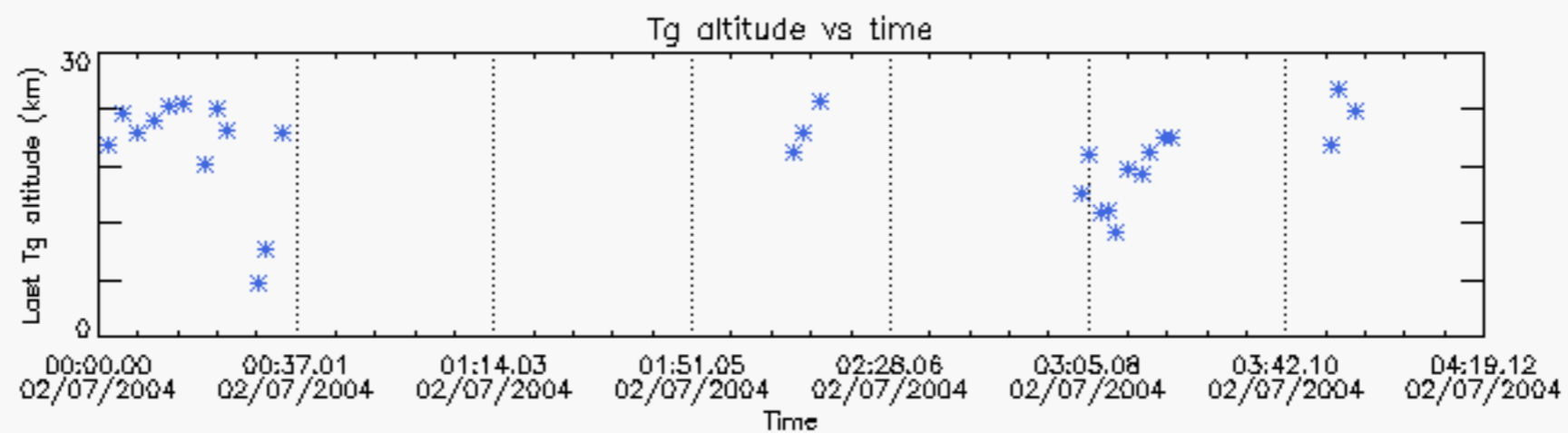
Percentage of saturation errors per profile



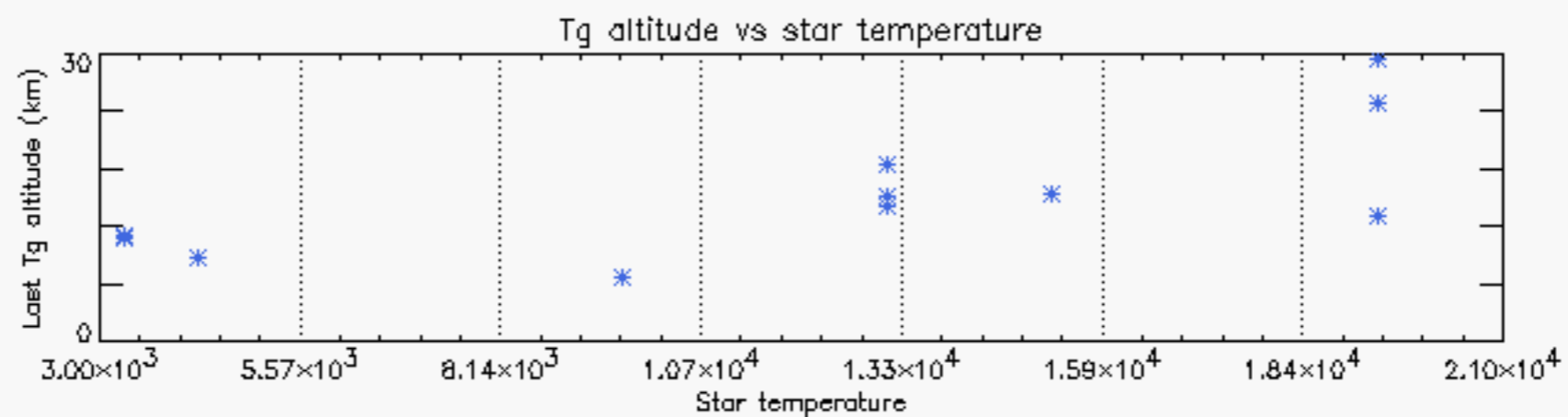
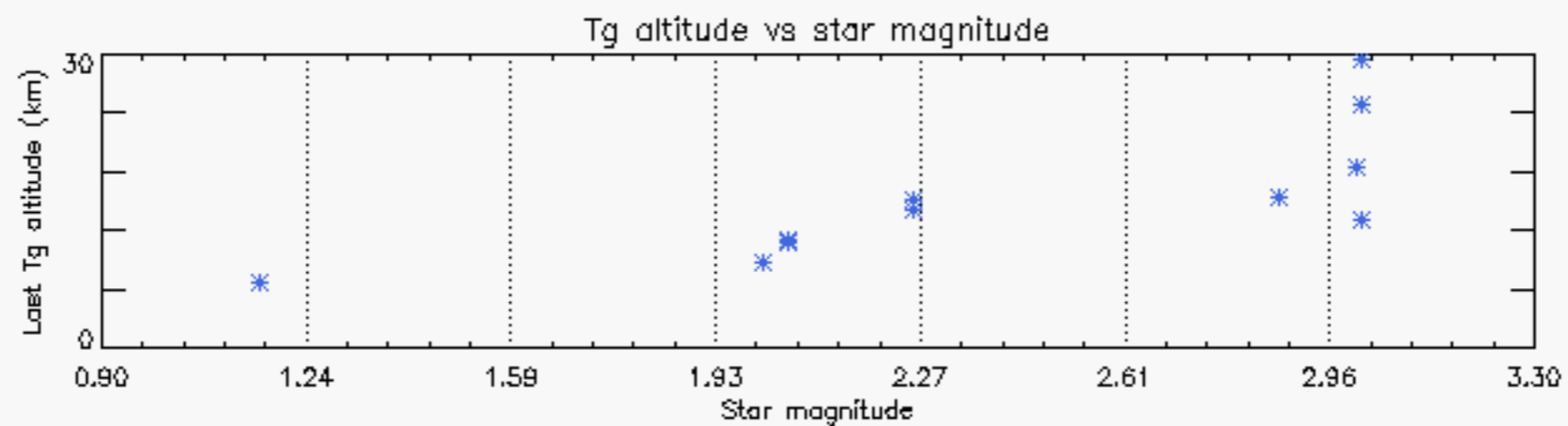
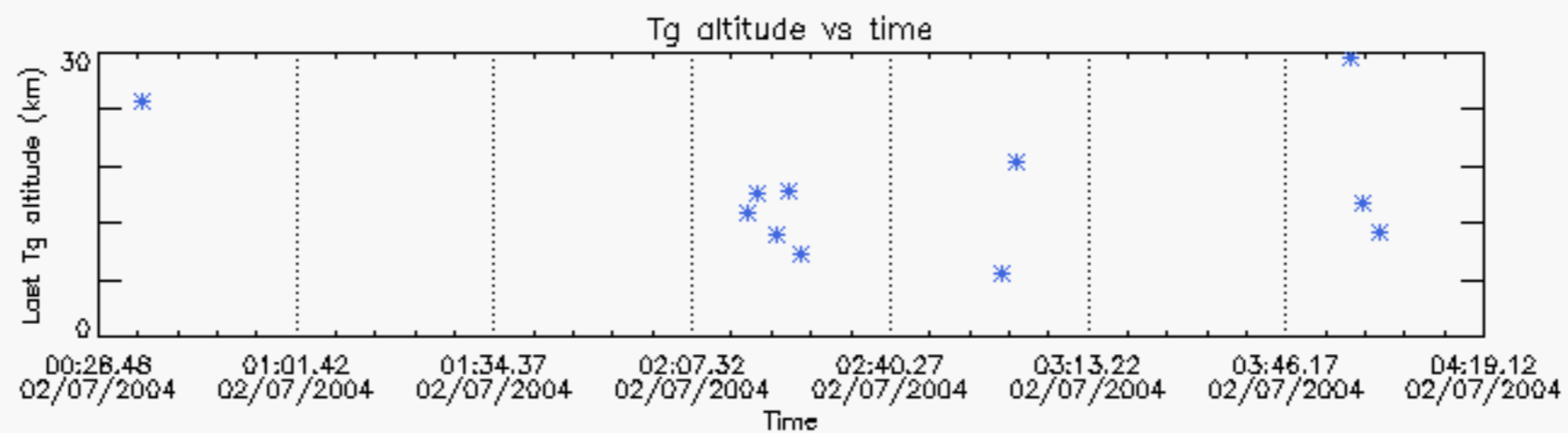
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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2; -494.6; 01-JUL-2004 01:29:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12209
3; -163.9; 01-JUL-2004 01:35:23; Dark ; 77.5; 52; 16Bet Cet ; 2.04; 4500;occ; 155; 0;12209
4; 36.9; 01-JUL-2004 01:38:44; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;12210
5; 314.6; 01-JUL-2004 01:43:22; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12210
6; 489.7; 01-JUL-2004 01:46:17; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;12210
7; 585.8; 01-JUL-2004 01:47:53; Dark ; 86.5; 18; 24Alp PsA ; 1.17; 9700;occ; 173; 0;12210
8; 746.2; 01-JUL-2004 01:50:33; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12210
9; 975.1; 01-JUL-2004 01:54:22; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;12210
10; 1061.4; 01-JUL-2004 01:55:49; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12210
11; 1169.8; 01-JUL-2004 01:57:37; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;12210
12; 1269.3; 01-JUL-2004 01:59:17; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;12210
13; 1354.2; 01-JUL-2004 02:00:41; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;12210
14; 1480.2; 01-JUL-2004 02:02:47; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;12210
15; 1641.2; 01-JUL-2004 02:05:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;12210
16; 1744.8; 01-JUL-2004 02:07:12; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;12210
17; 1877.5; 01-JUL-2004 02:09:25; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;12210
18; 1979.7; 01-JUL-2004 02:11:07; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;12210
19; 2119.5; 01-JUL-2004 02:13:27; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12210
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21; 2445.7; 01-JUL-2004 02:18:53; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;12210
22; 2647.9; 01-JUL-2004 02:22:15; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12210
23; 2806.6; 01-JUL-2004 02:24:54; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12210
24; 2948.0; 01-JUL-2004 02:27:15; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;12210
25; 3190.4; 01-JUL-2004 02:31:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;12210
26; 3339.1; 01-JUL-2004 02:33:46; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;12210
27; 3442.7; 01-JUL-2004 02:35:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;12210

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2;-2161.2; 01-JUL-2004 02:42:42; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;12210
3;-1976.0; 01-JUL-2004 02:45:47; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;12210
4;-1871.6; 01-JUL-2004 02:47:31; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12210
5;-1770.5; 01-JUL-2004 02:49:13; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12210
6;-1616.9; 01-JUL-2004 02:51:46; Dark ; 68.5; 53; 43Bet And ; 2.05; 3300;occ; 137; 0;12210
7;-1355.5; 01-JUL-2004 02:56:08; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;12210
8;-1058.3; 01-JUL-2004 03:01:05; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;12210
9; -835.8; 01-JUL-2004 03:04:47; Dark ; 46.5; 165; 34Gam Eri ; 2.95; 3200;occ; 93; 0;12210
10; -494.4; 01-JUL-2004 03:10:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12210
11; -330.3; 01-JUL-2004 03:13:13; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;12210
12; -162.7; 01-JUL-2004 03:16:00; Dark ; 90.5; 52; 16Bet Cet ; 2.04; 4500;occ; 181; 0;12210
13; 38.0; 01-JUL-2004 03:19:21; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;12211
14; 314.9; 01-JUL-2004 03:23:58; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12211
15; 490.7; 01-JUL-2004 03:26:54; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12211
16; 587.9; 01-JUL-2004 03:28:31; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;12211
17; 747.1; 01-JUL-2004 03:31:10; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;12211
18; 975.2; 01-JUL-2004 03:34:58; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;12211
19; 1062.4; 01-JUL-2004 03:36:25; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12211
20; 1170.6; 01-JUL-2004 03:38:14; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;12211
21; 1267.9; 01-JUL-2004 03:39:51; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;12211
22; 1355.5; 01-JUL-2004 03:41:19; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;12211
23; 1480.2; 01-JUL-2004 03:43:23; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;12211
24; 1642.0; 01-JUL-2004 03:46:05; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;12211
25; 1746.8; 01-JUL-2004 03:47:50; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;12211
26; 1877.8; 01-JUL-2004 03:50:01; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;12211
27; 1979.9; 01-JUL-2004 03:51:43; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;12211
28; 2120.0; 01-JUL-2004 03:54:03; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;12211
29; 2282.2; 01-JUL-2004 03:56:45; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;12211
30; 2446.6; 01-JUL-2004 03:59:30; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;12211
31; 2647.3; 01-JUL-2004 04:02:50; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;12211
32; 2806.7; 01-JUL-2004 04:05:30; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;12211
33; 2950.6; 01-JUL-2004 04:07:54; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;12211
34; 3190.9; 01-JUL-2004 04:11:54; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;12211
35; 3338.3; 01-JUL-2004 04:14:21; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;12211
36; 3443.4; 01-JUL-2004 04:16:06; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;12211

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2;-2161.9; 01-JUL-2004 04:23:17; Bright; 62.0; 110; 37Del Cas ; 2.68; 8900;occ; 124; 0;12211

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3;-1975.4; 01-JUL-2004 04:26:24; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;12211
4;-1872.4; 01-JUL-2004 04:28:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;12211
5;-1770.6; 01-JUL-2004 04:29:48; Bright; 50.5; 73; 57Gam1And ; 2.26; 13100;occ; 101; 0;12211
6;-1617.6; 01-JUL-2004 04:32:22; Dark ; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;12211
7;-1355.6; 01-JUL-2004 04:36:43; Dark ; 62.0; 50; 13Alp Ari ; 2.01; 4250;occ; 124; 0;12211
8;-1057.3; 01-JUL-2004 04:41:42; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;12211
9; -834.9; 01-JUL-2004 04:45:24; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;12211
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11; -329.1; 01-JUL-2004 04:53:50; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;12211
12; -160.5; 01-JUL-2004 04:56:39; Dark ; 81.0; 52; 16Bet Cet ; 2.04; 4500;occ; 162; 0;12211
13; 38.7; 01-JUL-2004 04:59:58; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;12212
14; 315.6; 01-JUL-2004 05:04:35; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12212
15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
17; 747.1; 01-JUL-2004 05:11:46; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12212
18; 975.6; 01-JUL-2004 05:15:35; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;12212
19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
20; 1171.4; 01-JUL-2004 05:18:51; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;12212
21; 1270.6; 01-JUL-2004 05:20:30; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;12212
22; 1356.2; 01-JUL-2004 05:21:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;12212
23; 1479.9; 01-JUL-2004 05:23:59; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;12212
24; 1642.7; 01-JUL-2004 05:26:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;12212
25; 1747.7; 01-JUL-2004 05:28:27; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;12212
26; 1878.6; 01-JUL-2004 05:30:38; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12212
27; 1980.5; 01-JUL-2004 05:32:20; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12212
28; 2120.4; 01-JUL-2004 05:34:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;12212
29; 2283.4; 01-JUL-2004 05:37:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;12212
30; 2446.9; 01-JUL-2004 05:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;12212
31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
32; 2806.1; 01-JUL-2004 05:46:05; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12212
33; 2951.0; 01-JUL-2004 05:48:30; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12212
34; 3191.5; 01-JUL-2004 05:52:31; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;12212
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2;-2162.7; 01-JUL-2004 06:03:52; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;12212
3;-1975.1; 01-JUL-2004 06:07:00; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;12212
4;-1871.8; 01-JUL-2004 06:08:43; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;12212
5;-1771.3; 01-JUL-2004 06:10:24; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;12212
6;-1617.2; 01-JUL-2004 06:12:58; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;12212
7;-1355.8; 01-JUL-2004 06:17:19; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;12212
8;-1056.5; 01-JUL-2004 06:22:19; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;12212
9; -834.7; 01-JUL-2004 06:26:00; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;12212
10; -494.1; 01-JUL-2004 06:31:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;12212
11; -328.5; 01-JUL-2004 06:34:27; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;12212
12; -158.6; 01-JUL-2004 06:37:17; Dark ; 93.0; 52; 16Bet Cet ; 2.04; 4500;occ; 186; 0;12212
13; 39.3; 01-JUL-2004 06:40:34; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;12213
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17; 747.9; 01-JUL-2004 06:52:23; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;12213
18; 975.3; 01-JUL-2004 06:56:10; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12213
19; 1063.4; 01-JUL-2004 06:57:39; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;12213
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22; 1356.5; 01-JUL-2004 07:02:32; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;12213
23; 1480.4; 01-JUL-2004 07:04:36; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12213
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2;-4157.2; 01-JUL-2004 07:11:14; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;12213
3;-4055.2; 01-JUL-2004 07:12:56; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;12213
4;-3915.5; 01-JUL-2004 07:15:16; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;12213
5;-3752.4; 01-JUL-2004 07:17:59; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;12213
6;-3588.5; 01-JUL-2004 07:20:43; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;12213
7;-3389.4; 01-JUL-2004 07:24:02; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;12213
8;-3229.5; 01-JUL-2004 07:26:42; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;12213

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9;-3084.9; 01-JUL-2004 07:29:06; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;12213
10;-2844.1; 01-JUL-2004 07:33:07; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;12213
11;-2699.2; 01-JUL-2004 07:35:32; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;12213
12;-2592.0; 01-JUL-2004 07:37:19; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;12213
13;-2259.2; 01-JUL-2004 07:42:52; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;12213
14;-2162.7; 01-JUL-2004 07:44:28; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;12213
15;-1975.1; 01-JUL-2004 07:47:36; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;12213
16;-1871.7; 01-JUL-2004 07:49:19; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;12213
17;-1771.3; 01-JUL-2004 07:51:00; Bright; 53.0; 73; 57Gam1And ; 2.26; 13100;occ; 106; 0;12213
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19;-1354.5; 01-JUL-2004 07:57:57; Dark ; 61.0; 50; 13Alp Ari ; 2.01; 4250;occ; 122; 0;12213
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26; 316.5; 01-JUL-2004 08:25:48; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;12214
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28; 592.4; 01-JUL-2004 08:30:23; Dark ; 85.0; 18; 24Alp PsA ; 1.17; 9700;occ; 170; 0;12214
29; 748.0; 01-JUL-2004 08:32:59; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;12214
30; 975.6; 01-JUL-2004 08:36:47; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;12214
31; 1063.3; 01-JUL-2004 08:38:14; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;12214
32; 1172.0; 01-JUL-2004 08:40:03; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;12214
33; 1271.6; 01-JUL-2004 08:41:43; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;12214
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 17;-2844.5; 02-JUL-2004 18:45:41; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;12234
 18;-2713.2; 02-JUL-2004 18:47:53; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12234
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 22;-1979.3; 02-JUL-2004 19:00:07; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;12234
 23;-1870.2; 02-JUL-2004 19:01:56; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;12234
 24;-1773.6; 02-JUL-2004 19:03:32; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;12234
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 27;-1346.6; 02-JUL-2004 19:10:39; Dark ; 70.0; 50; 13Alp Ari ; 2.01; 4250;occ; 140; 0;12234
 28;-1047.0; 02-JUL-2004 19:15:39; Dark ; 55.5; 94; 92Alp Cet ; 2.53; 3100;occ; 111; 0;12234
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 34; 318.6; 02-JUL-2004 19:38:25; Dark ; 41.5; 135; Bet Hyi ; 2.82; 5800;occ; 83; 0;12235
 35; 514.0; 02-JUL-2004 19:41:40; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;12235
 36; 629.7; 02-JUL-2004 19:43:36; Dark ; 84.0; 18; 24Alp PsA ; 1.17; 9700;occ; 168; 0;12235
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 18; 641.0; 03-JUL-2004 07:27:59; Dark ; 90.5; 18; 24Alp PsA ; 1.17; 9700;occ; 181; 0;12242
 19; 812.9; 03-JUL-2004 07:30:50; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;12242
 20; 980.4; 03-JUL-2004 07:33:38; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;12242
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 22; 1177.6; 03-JUL-2004 07:36:55; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;12242
 23; 1277.4; 03-JUL-2004 07:38:35; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;12242
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4;	-4055.3;	03-JUL-2004 07:50:18;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12242	
5;	-3916.4;	03-JUL-2004 07:52:37;	Bright;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;	12242	
6;	-3747.6;	03-JUL-2004 07:55:26;	Bright;	39.0;	127;	27Bet Her	;	2.78;	4700;occ;	78;	0;	12242	
7;	-3585.9;	03-JUL-2004 07:58:08;	Bright;	37.0;	133;	40Zet Her	;	2.81;	6000;occ;	74;	0;	12242	
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13;	-2592.2;	03-JUL-2004 08:14:41;	Bright;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	12242	
14;	-2272.0;	03-JUL-2004 08:20:01;	Bright;	50.5;	74;	11Bet Cas	;	2.27;	6600;occ;	101;	0;	12242	
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18;	-1774.2;	03-JUL-2004 08:28:19;	Bright;	54.5;	73;	57Gam1And	;	2.26;	13100;occ;	109;	0;	12242	
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21;	-1344.4;	03-JUL-2004 08:35:29;	Dark	;	66.0;	50;	13Alp Ari	;	2.01;	4250;occ;	132;	0;	12242
22;	-1042.6;	03-JUL-2004 08:40:31;	Dark	;	54.0;	94;	92Alp Cet	;	2.53;	3100;occ;	108;	0;	12242
23;	-825.2;	03-JUL-2004 08:44:08;	Dark	;	42.5;	165;	34Gam Eri	;	2.95;	3200;occ;	85;	0;	12242
24;	-498.5;	03-JUL-2004 08:49:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12242
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26;	-101.9;	03-JUL-2004 08:56:12;	Dark	;	80.5;	52;	16Bet Cet	;	2.04;	4500;occ;	161;	0;	12242
27;	54.2;	03-JUL-2004 08:58:48;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	12243
28;	323.2;	03-JUL-2004 09:03:17;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12243
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30;	642.7;	03-JUL-2004 09:08:36;	Dark	;	81.5;	18;	24Alp PsA	;	1.17;	9700;occ;	163;	0;	12243
31;	814.2;	03-JUL-2004 09:11:28;	Dark	;	60.0;	172;	Gam Gru	;	3.00;	13100;occ;	120;	0;	12243
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33;	1069.0;	03-JUL-2004 09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
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4;	-3916.5;	03-JUL-2004 09:33:13;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	12243	
5;	-3747.6;	03-JUL-2004 09:36:02;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12243	
6;	-3585.9;	03-JUL-2004 09:38:43;	Bright;	37.5;	133;	40Zet Her	;	2.81;	6000;occ;	75;	0;	12243	
7;	-3402.8;	03-JUL-2004 09:41:47;	Bright;	47.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	95;	0;	12243	
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11;	-2719.5;	03-JUL-2004 09:53:10;	Bright;	47.5;	89;	5Alp Cep	;	2.45;	8000;occ;	95;	0;	12243	
12;	-2592.2;	03-JUL-2004 09:55:17;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	12243	
13;	-2272.5;	03-JUL-2004 10:00:37;	Bright;	50.0;	74;	11Bet Cas	;	2.27;	6600;occ;	100;	0;	12243	
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16;	-1870.2;	03-JUL-2004 10:07:19;	Bright;	36.0;	175;	39Del Per	;	3.01;	19400;occ;	72;	0;	12243	
17;	-1774.3;	03-JUL-2004 10:08:55;	Bright;	56.5;	73;	57Gam1And	;	2.26;	13100;occ;	113;	0;	12243	
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19;	-1450.8;	03-JUL-2004 10:14:19;	Dark	;	42.0;	146;	25Eta Tau	;	2.87;	15200;occ;	84;	0;	12243
20;	-1343.5;	03-JUL-2004 10:16:06;	Dark	;	61.5;	50;	13Alp Ari	;	2.01;	4250;occ;	123;	0;	12243
21;	-1042.1;	03-JUL-2004 10:21:07;	Dark	;	52.5;	94;	92Alp Cet	;	2.53;	3100;occ;	105;	0;	12243
22;	-825.2;	03-JUL-2004 10:24:44;	Dark	;	44.0;	165;	34Gam Eri	;	2.95;	3200;occ;	88;	0;	12243
23;	-497.5;	03-JUL-2004 10:30:12;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12243
24;	-315.0;	03-JUL-2004 10:33:14;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12243
25;	-99.1;	03-JUL-2004 10:36:50;	Dark	;	90.0;	52;	16Bet Cet	;	2.04;	4500;occ;	180;	0;	12243
26;	54.8;	03-JUL-2004 10:39:24;	Dark	;	46.0;	9;	Alp Eri	;	0.45;	24000;occ;	92;	0;	12244
27;	322.5;	03-JUL-2004 10:43:52;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	12244
28;	522.6;	03-JUL-2004 10:47:12;	Dark	;	63.0;	63;	Bet Gru	;	2.15;	2800;occ;	126;	0;	12244
29;	644.9;	03-JUL-2004 10:49:14;	Dark	;	87.0;	18;	24Alp PsA	;	1.17;	9700;occ;	174;	0;	12244
30;	815.0;	03-JUL-2004 10:52:04;	Dark	;	59.0;	172;	Gam Gru	;	3.00;	13100;occ;	118;	0;	12244
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32;	3154.4;	22-JUL-2004	04:51:35;	Bright;	44.0;	89;	5Alp Cep	;	2.45;	8000;occ;	88;	0;	12512	
33;	3440.9;	22-JUL-2004	04:56:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	12512	
34;	3584.4;	22-JUL-2004	04:58:45;	Bright;	53.5;	74;	11Bet Cas	;	2.27;	6600;occ;	107;	0;	12512	
35;	3683.9;	22-JUL-2004	05:00:25;	Bright;	3.5;	76;	27Gam Cas	;	2.30;	30000;occ;	7;	0;	12512	
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2;	-2017.0;	22-JUL-2004	05:06:00;	Bright;	45.0;	160;	23Gam Per	;	2.93;	4700;occ;	90;	0;	12512	
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7;	-1294.9;	22-JUL-2004	05:18:02;	Dark	;	53.0;	13;	87Alp Tau	;	0.87;	3800;occ;	106;	0;	12512
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9;	-1051.9;	22-JUL-2004	05:22:05;	Dark	;	39.0;	30;	46Eps Ori	;	1.69;	30000;occ;	78;	0;	12512
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12;	-513.1;	22-JUL-2004	05:31:04;	Dark	;	40.5;	108;	Alp Col	;	2.65;	15200;occ;	81;	0;	12512
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18;	753.4;	22-JUL-2004	05:52:10;	Dark	;	53.0;	63;	Bet Gru	;	2.15;	2800;occ;	106;	0;	12513
19;	839.1;	22-JUL-2004	05:53:36;	Dark	;	47.5;	31;	Alp Gru	;	1.73;	15200;occ;	95;	0;	12513
20;	1012.6;	22-JUL-2004	05:56:29;	Dark	;	84.5;	18;	24Alp PsA	;	1.17;	9700;occ;	169;	0;	12513
21;	1262.5;	22-JUL-2004	06:00:39;	Dark	;	40.5;	178;	Iot1Sco	;	3.02;	6550;occ;	81;	0;	12513
22;	1337.9;	22-JUL-2004	06:01:55;	Dark	;	43.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	87;	0;	12513
23;	1451.5;	22-JUL-2004	06:03:48;	Bright;	40.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	80;	0;	12513	
24;	1556.0;	22-JUL-2004	06:05:33;	Bright;	65.0;	142;	49Del Cap	;	2.85;	8900;occ;	130;	0;	12513	
25;	2010.3;	22-JUL-2004	06:13:07;	Bright;	38.0;	126;	60Bet Oph	;	2.77;	4250;occ;	76;	0;	12513	
26;	2144.9;	22-JUL-2004	06:15:22;	Bright;	40.0;	168;	17Zet Aql	;	2.99;	11000;occ;	80;	0;	12513	
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28;	2733.4;	22-JUL-2004	06:25:10;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12513	
29;	2843.1;	22-JUL-2004	06:27:00;	Bright;	47.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	95;	0;	12513	
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31;	3154.2;	22-JUL-2004	06:32:11;	Bright;	43.5;	89;	5Alp Cep	;	2.45;	8000;occ;	87;	0;	12513	
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 16; 214.8; 22-JUL-2004 07:23:48; Dark ; 56.0; 9; Alp Eri ; 0.45; 24000;occ; 112; 0;12514
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 23; 1338.0; 22-JUL-2004 07:42:31; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;12514
 24; 1452.1; 22-JUL-2004 07:44:25; Bright; 38.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 77; 0;12514
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 23; -144.1; 22-JUL-2004 08:58:24; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;12514
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