

GOMOS Daily Report 03-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	04JUL2004 03:43:41
Data source version	GOMOS/4.02
Start time of products	03-JUL-2004 (03JUL2004 00:00:00)
Stop time of products	04-JUL-2004 (04JUL2004 00:00:00)

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

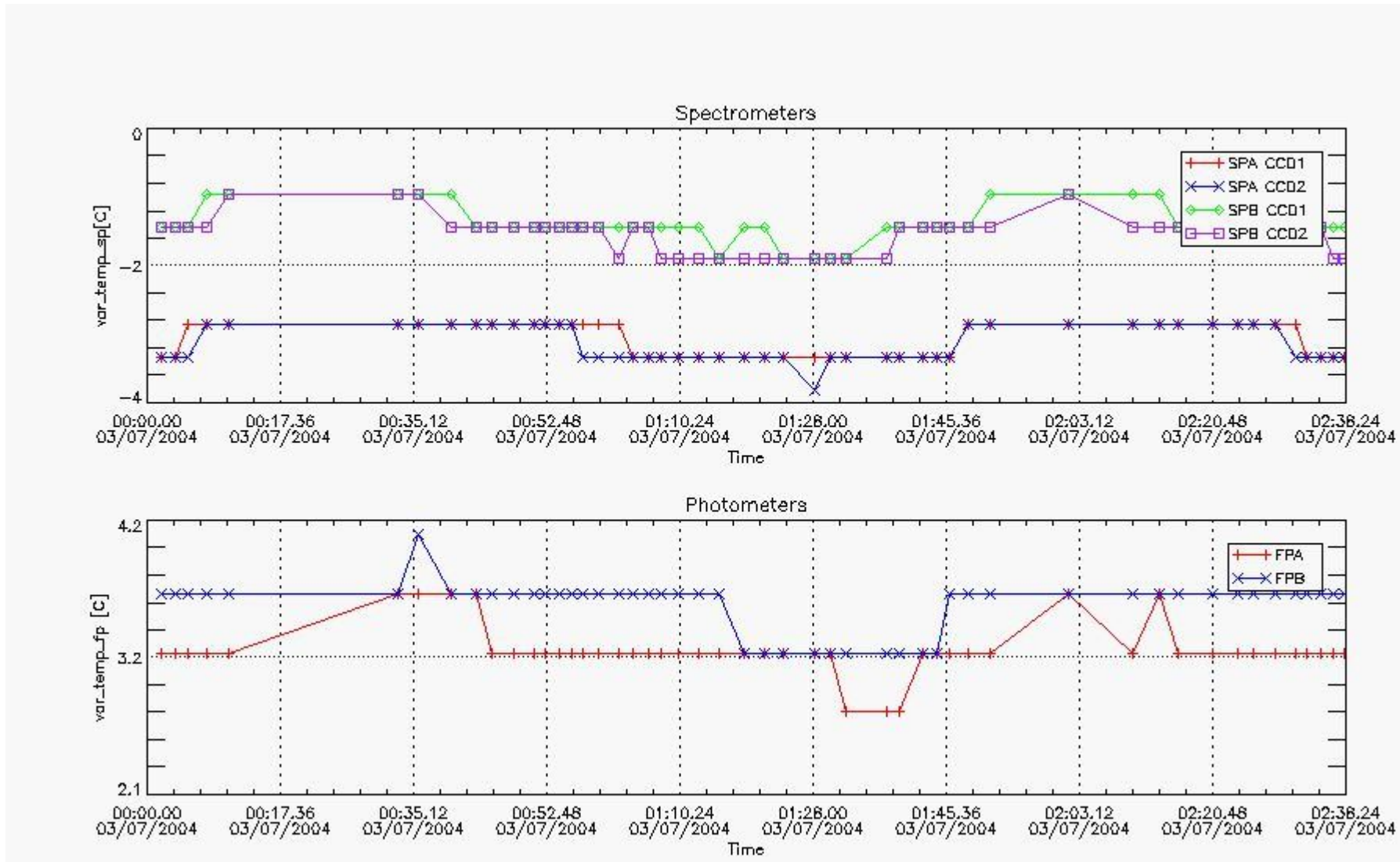
2. Summary of products arrived in PCF

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_1PNPDE20040703_000157_000000412028_00159_12237_0028.N1	03-JUL-2004 00:01:57	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	12237	No
GOM_TRA_1PNPDE20040703_000343_000000352028_00159_12237_0029.N1	03-JUL-2004 00:03:43	Twilight	35.000	175	39Del Per	3.0100	19400.	70	12237	No
GOM_TRA_1PNPDE20040703_000521_000000552028_00159_12237_0030.N1	03-JUL-2004 00:05:21	Twilight	55.000	73	57Gam1And	2.2600	13100.	110	12237	No
GOM_TRA_1PNPDE20040703_000757_000000742028_00159_12237_0031.N1	03-JUL-2004 00:07:57	Twilight	74.000	53	43Bet And	2.0480	3300.0	148	12237	No
GOM_TRA_1PNPDE20040703_001041_000000422028_00159_12237_0032.N1	03-JUL-2004 00:10:41	Twilight	42.000	146	25Eta Tau	2.8730	15200.	84	12237	No
GOM_TRA_1PNPDE20040703_003303_000000982028_00159_12237_0000.N1	03-JUL-2004 00:33:03	Dark	98.000	52	16Bet Cet	2.0370	4500.0	196	12237	No
GOM_TRA_1PNPDE20040703_003545_000000492028_00160_12238_0001.N1	03-JUL-2004 00:35:45	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12238	No
GOM_TRA_1PNPDE20040703_004016_000000402028_00160_12238_0002.N1	03-JUL-2004 00:40:16	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	12238	No
GOM_TRA_1PNPDE20040703_004330_000000572028_00160_12238_0003.N1	03-JUL-2004 00:43:30	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12238	No
GOM_TRA_1PNPDE20040703_004529_000000992028_00160_12238_0004.N1	03-JUL-2004 00:45:29	Twilight	98.500	18	24Alp PsA	1.1660	9700.0	197	12238	No
GOM_TRA_1PNPDE20040703_004822_000000592028_00160_12238_0005.N1	03-JUL-2004 00:48:22	Twilight	58.500	172	Gam Gru	3.0030	13100.	117	12238	No
GOM_TRA_1PNPDE20040703_005113_000000422028_00160_12238_0006.N1	03-JUL-2004 00:51:13	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12238	No
GOM_TRA_1PNPDE20040703_005240_000000392028_00160_12238_0007.N1	03-JUL-2004 00:52:40	Bright	39.000	147	Alp Ara	2.8770	26000.	78	12238	No
GOM_TRA_1PNPDE20040703_005429_000000452028_00160_12238_0008.N1	03-JUL-2004 00:54:29	Bright	44.500	40	The Sco	1.8590	7100.0	89	12238	No
GOM_TRA_1PNPDE20040703_005609_000000432028_00160_12238_0009.N1	03-JUL-2004 00:56:09	Bright	42.500	25	35Lam Sco	1.6200	28000.	85	12238	No
GOM_TRA_1PNPDE20040703_005735_000000462028_00160_12238_0010.N1	03-JUL-2004 00:57:35	Bright	46.000	116	19Del Sgr	2.7000	4100.0	92	12238	No
GOM_TRA_1PNPDE20040703_005936_000000482028_00160_12238_0011.N1	03-JUL-2004 00:59:36	Bright	48.000	155	41Pi Sgr	2.9000	6600.0	96	12238	No
GOM_TRA_1PNPDE20040703_010219_000000402028_00160_12238_0012.N1	03-JUL-2004 01:02:19	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	12238	No
GOM_TRA_1PNPDE20040703_010407_000000382028_00160_12238_0013.N1	03-JUL-2004 01:04:07	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	12238	No
GOM_TRA_1PNPDE20040703_010618_000000392028_00160_12238_0014.N1	03-JUL-2004 01:06:18	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	12238	No
GOM_TRA_1PNPDE20040703_010753_000000392028_00160_12238_0015.N1	03-JUL-2004 01:07:53	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12238	No
GOM_TRA_1PNPDE20040703_011010_000000422028_00160_12238_0016.N1	03-JUL-2004 01:10:10	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	12238	No
GOM_TRA_1PNPDE20040703_011258_000000412028_00160_12238_0017.N1	03-JUL-2004 01:12:58	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	12238	No
GOM_TRA_1PNPDE20040703_011540_000000422028_00160_12238_0018.N1	03-JUL-2004 01:15:40	Bright	41.500	133	40Zet Her	2.8070	6000.0	83	12238	No
GOM_TRA_1PNPDE20040703_011848_000000482028_00160_12238_0019.N1	03-JUL-2004 01:18:48	Bright	47.500	5	3Alp Lyr	0.033000	11000.	95	12238	No
GOM_TRA_1PNPDE20040703_012135_000000372028_00160_12238_0020.N1	03-JUL-2004 01:21:35	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	12238	No
GOM_TRA_1PNPDE20040703_012405_000000392028_00160_12238_0021.N1	03-JUL-2004 01:24:05	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12238	No
GOM_TRA_1PNPDE20040703_012808_000000402028_00160_12238_0022.N1	03-JUL-2004 01:28:08	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12238	No
GOM_TRA_1PNPDE20040703_013014_000000472028_00160_12238_0023.N1	03-JUL-2004 01:30:14	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	12238	No
GOM_TRA_1PNPDE20040703_013216_000000382028_00160_12238_0024.N1	03-JUL-2004 01:32:16	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12238	No
GOM_TRA_1PNPDE20040703_013740_000000492028_00160_12238_0025.N1	03-JUL-2004 01:37:40	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	12238	No
GOM_TRA_1PNPDE20040703_013920_000000432028_00160_12238_0026.N1	03-JUL-2004 01:39:20	Bright	42.500	110	37Del Cas	2.6780	8900.0	85	12238	No
GOM_TRA_1PNPDE20040703_014232_000000422028_00160_12238_0027.N1	03-JUL-2004 01:42:32	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	12238	No
GOM_TRA_1PNPDE20040703_014419_000000372028_00160_12238_0028.N1	03-JUL-2004 01:44:19	Twilight	36.500	175	39Del Per	3.0100	19400.	73	12238	No
GOM_TRA_1PNPDE20040703_014556_000000542028_00160_12238_0029.N1	03-JUL-2004 01:45:56	Twilight	53.500	73	57Gam1And	2.2600	13100.	107	12238	No
GOM_TRA_1PNPDE20040703_014833_000000772028_00160_12238_0030.N1	03-JUL-2004 01:48:33	Twilight	77.000	53	43Bet And	2.0480	3300.0	154	12238	No
GOM_TRA_1PNPDE20040703_015117_000000442028_00160_12238_0031.N1	03-JUL-2004 01:51:17	Twilight	44.000	146	25Eta Tau	2.8730	15200.	88	12238	No
GOM_TRA_1PNPDE20040703_020142_000000472028_00160_12238_0000.N1	03-JUL-2004 02:01:42	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	12238	No
GOM_TRA_1PNPDE20040703_021011_000000432028_00160_12238_0001.N1	03-JUL-2004 02:10:11	Dark	42.500	157	The1Eri	2.9060	9300.0	85	12238	No
GOM_TRA_1PNPDE20040703_021341_000000952028_00160_12238_0002.N1	03-JUL-2004 02:13:41	Dark	94.500	52	16Bet Cet	2.0370	4500.0	189	12238	No
GOM_TRA_1PNPDE20040703_021620_000000432028_00161_12239_0003.N1	03-JUL-2004 02:16:20	Dark	42.500	9	Alp Eri	0.45300	24000.	85	12239	No
GOM_TRA_1PNPDE20040703_022051_000000402028_00161_12239_0004.N1	03-JUL-2004 02:20:51	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12239	No
GOM_TRA_1PNPDE20040703_022407_000000572028_00161_12239_0005.N1	03-JUL-2004 02:24:07	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	12239	No
GOM_TRA_1PNPDE20040703_022606_000000882028_00161_12239_0006.N1	03-JUL-2004 02:26:06	Twilight	87.500	18	24Alp PsA	1.1660	9700.0	175	12239	No
GOM_TRA_1PNPDE20040703_022859_000000592028_00161_12239_0007.N1	03-JUL-2004 02:28:59	Twilight	59.000	172	Gam Gru	3.0030	13100.	118	12239	No
GOM_TRA_1PNPDE20040703_023149_000000412028_00161_12239_0008.N1	03-JUL-2004 02:31:49	Bright	40.500	141	Bet Ara	2.8400	4600.0	81	12239	No
GOM_TRA_1PNPDE20040703_023316_000000412028_00161_12239_0009.N1	03-JUL-2004 02:33:16	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12239	No
GOM_TRA_1PNPDE20040703_023503_000000472028_00161_12239_0010.N1	03-JUL-2004 02:35:03	Bright	47.000	40	The Sco	1.8590	7100.0	94	12239	No
GOM_TRA_1PNPDE20040703_023645_000000422028_00161_12239_0011.N1	03-JUL-2004 02:36:45	Bright	42.000	25	35Lam Sco	1.6200	28000.	84	12239	No

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



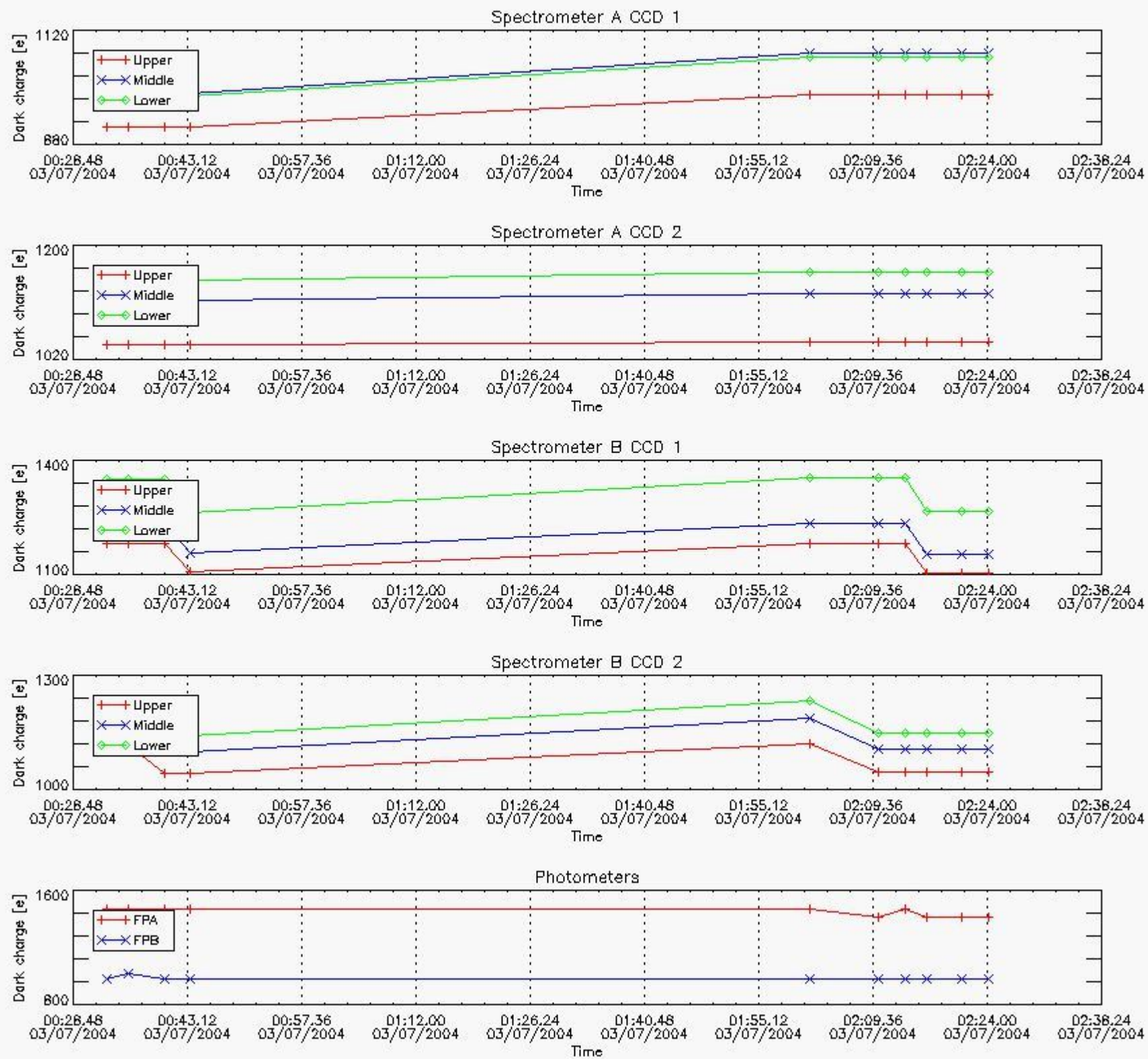
4. Overview of dark signal processing per product

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



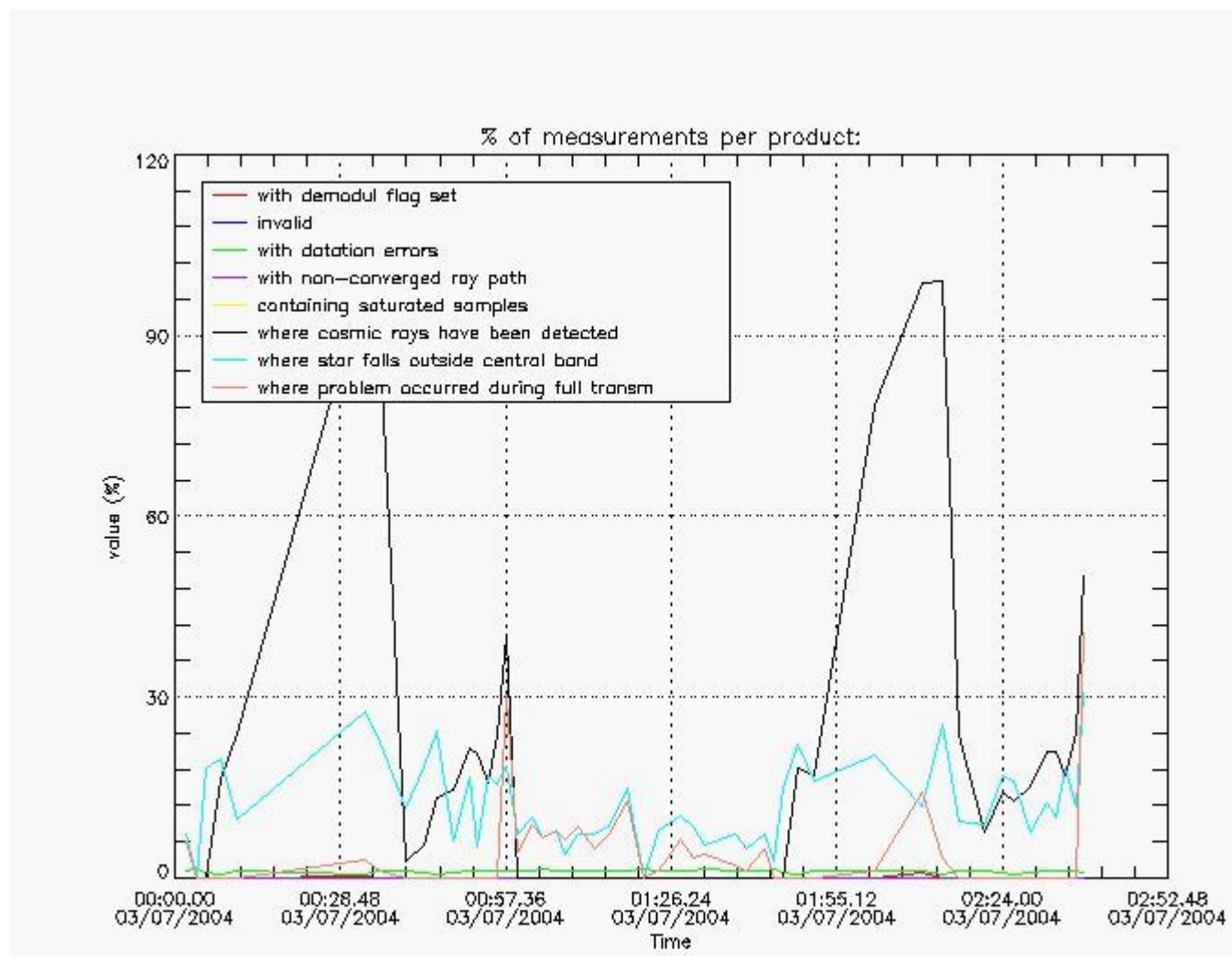
5. Demodulation flag and quality information monitoring

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:

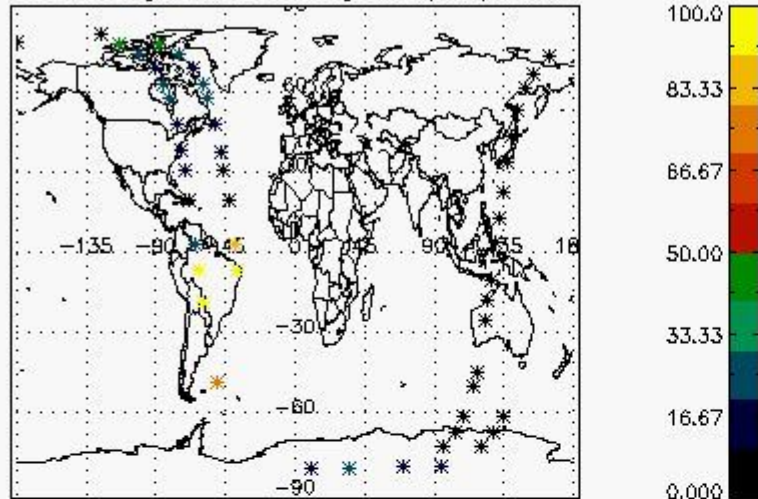
At least one measurement with demodulation flag set:	12.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

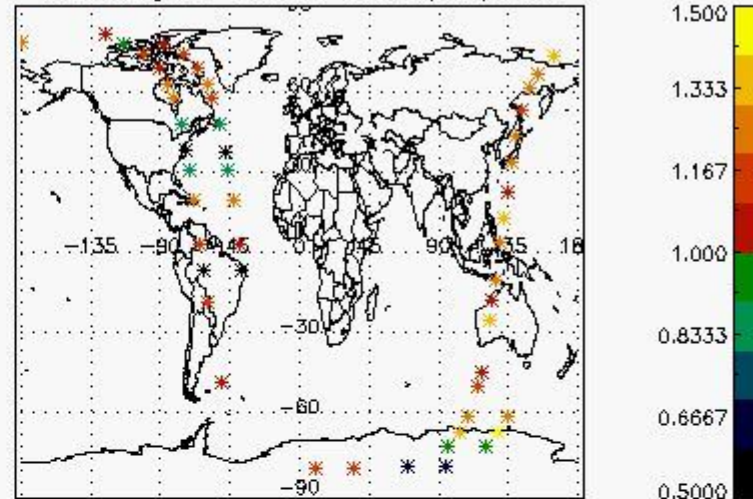


5.3 Plot quality information per product (world map)

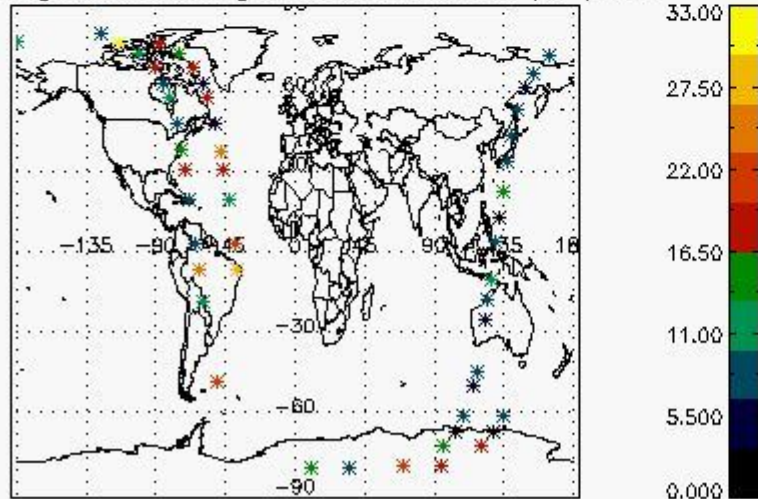
Percentage of cosmic ray hits per profile



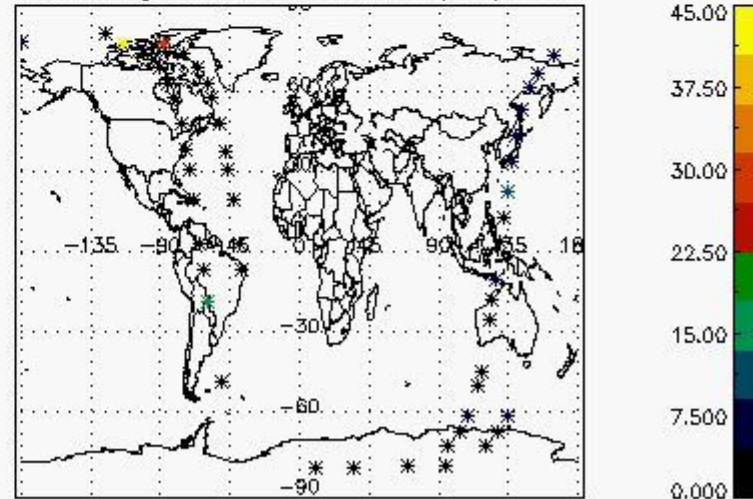
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



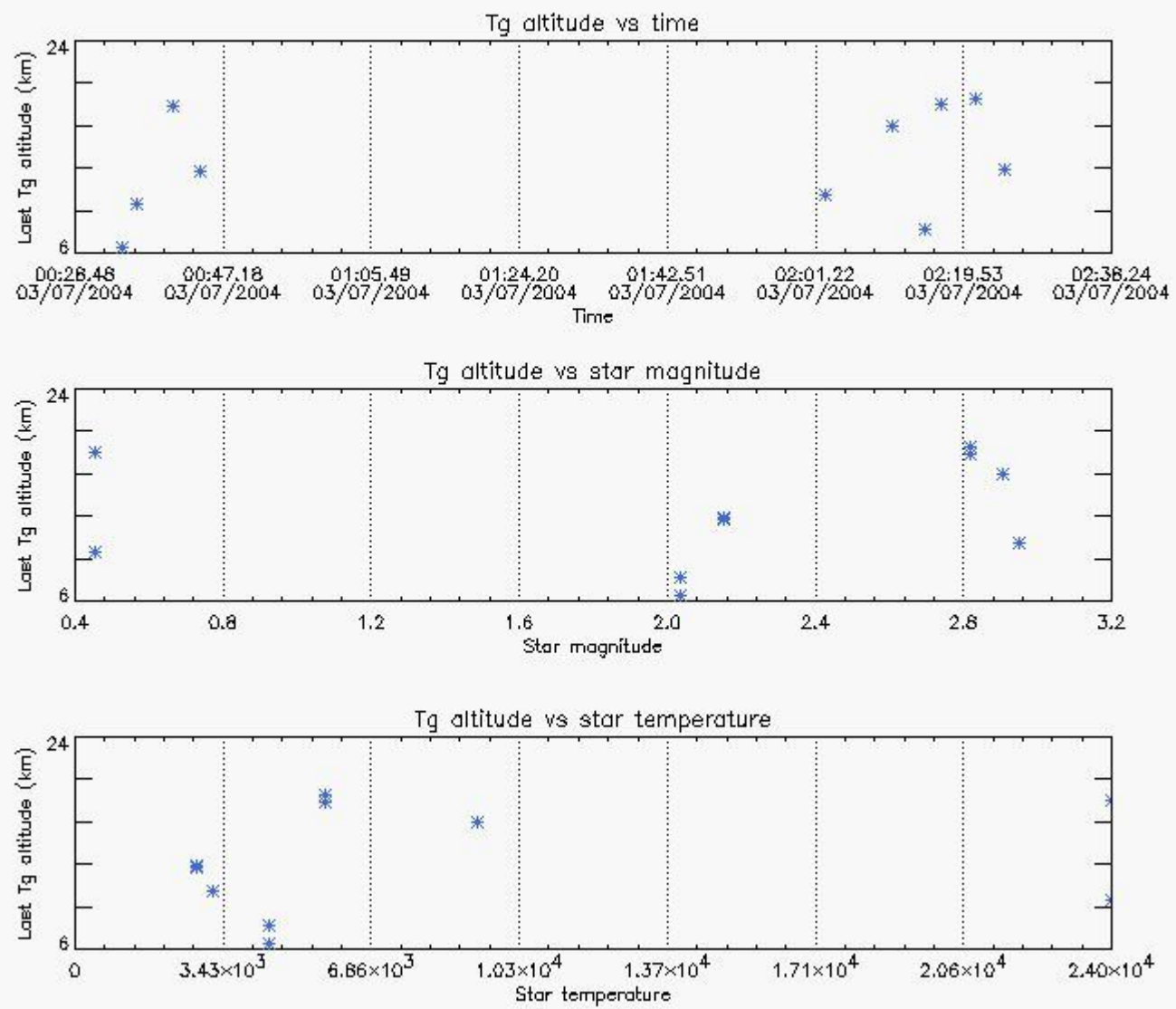
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.443	17.999	16.317
St. deviation:	4.6188	4.1282	6.1530
Maximum:	19.118	26.008	28.906
Minimum:	6.4376	5.6551	8.6017
Number of data:	10.000	28.000	12.000

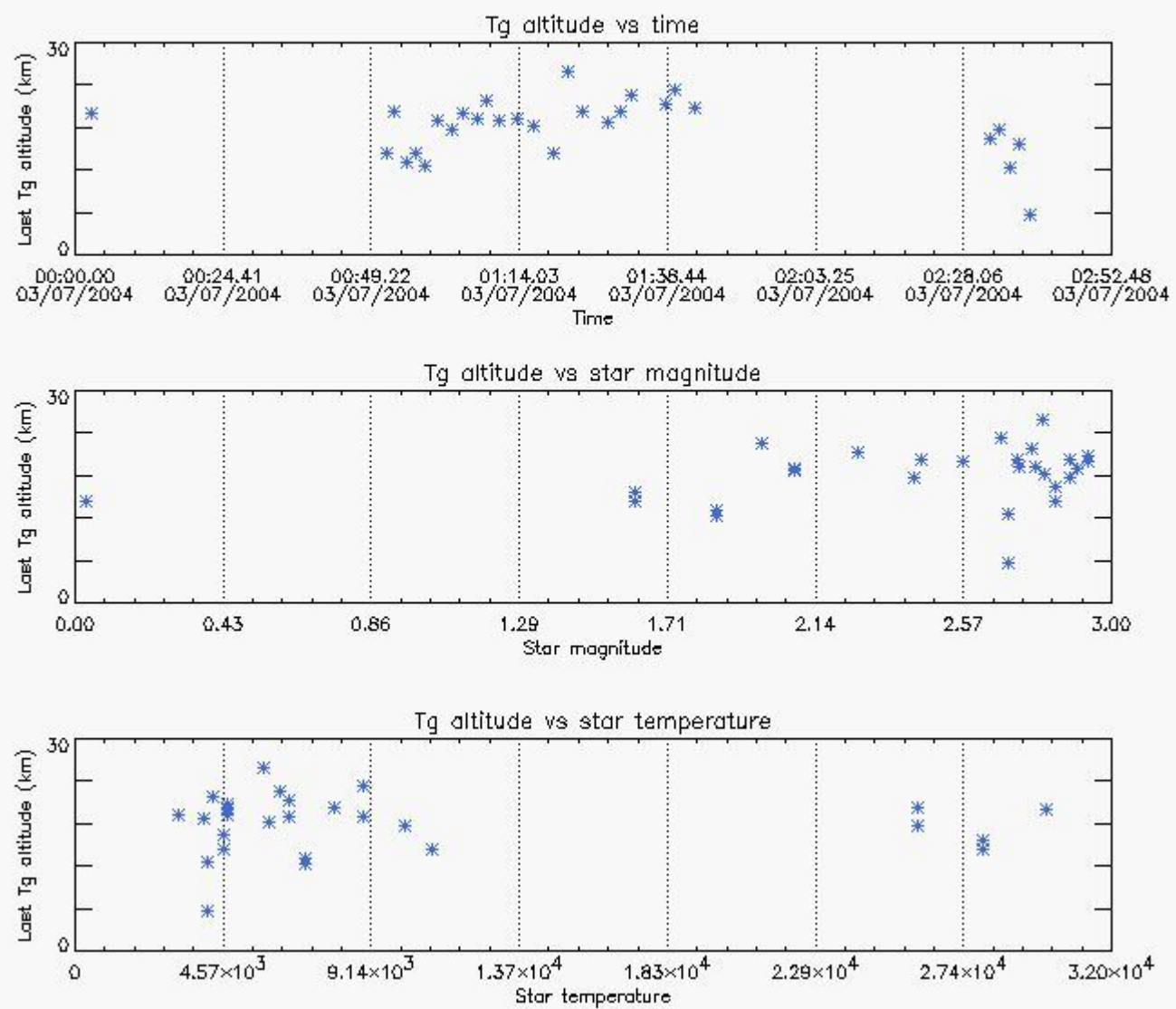
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



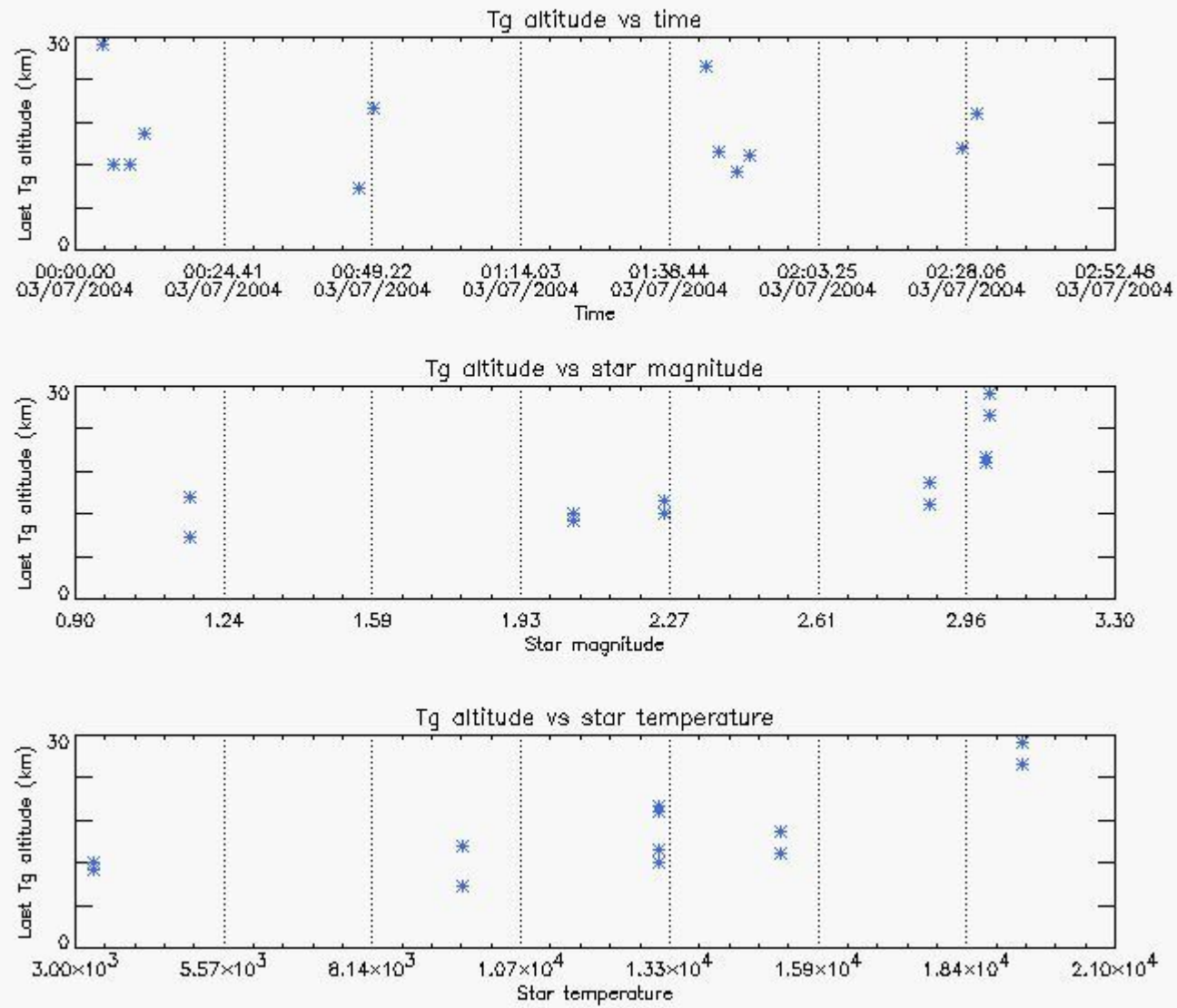
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

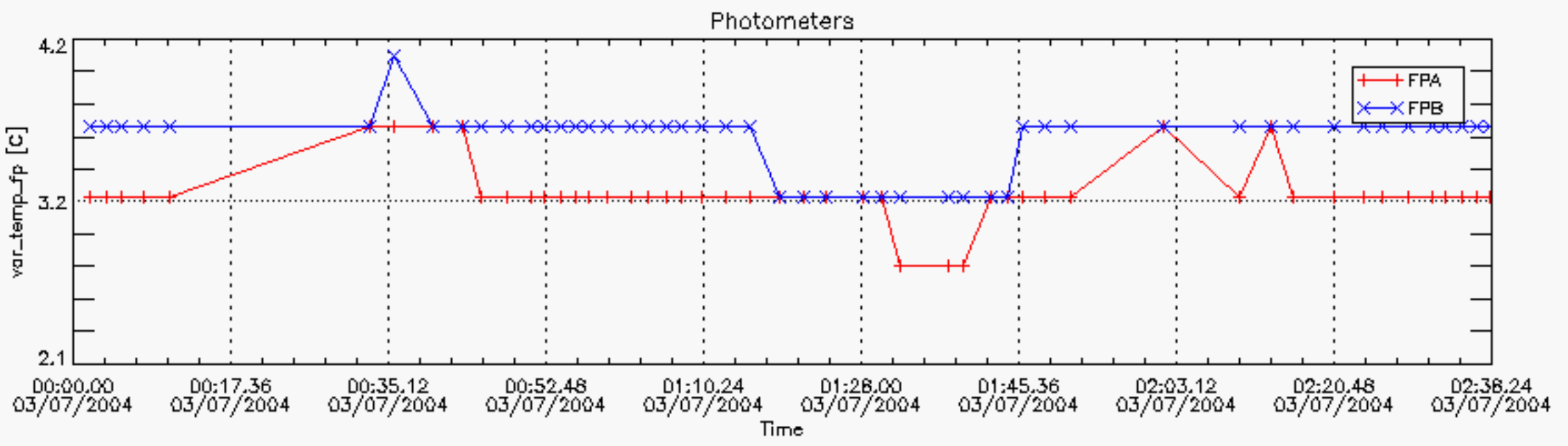
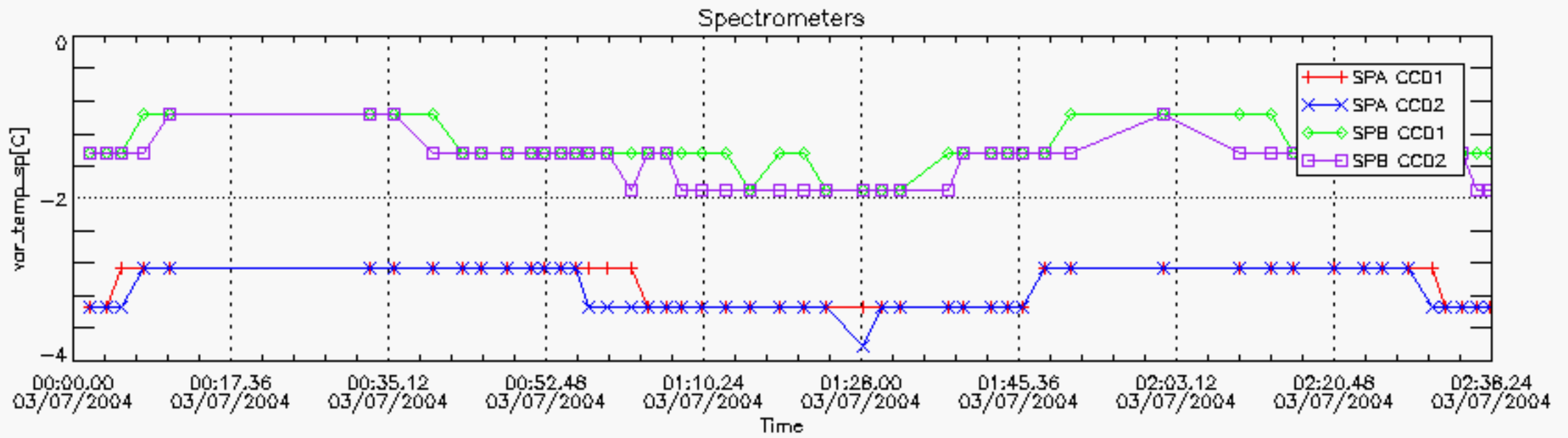
Tangent altitude at which the star is lost

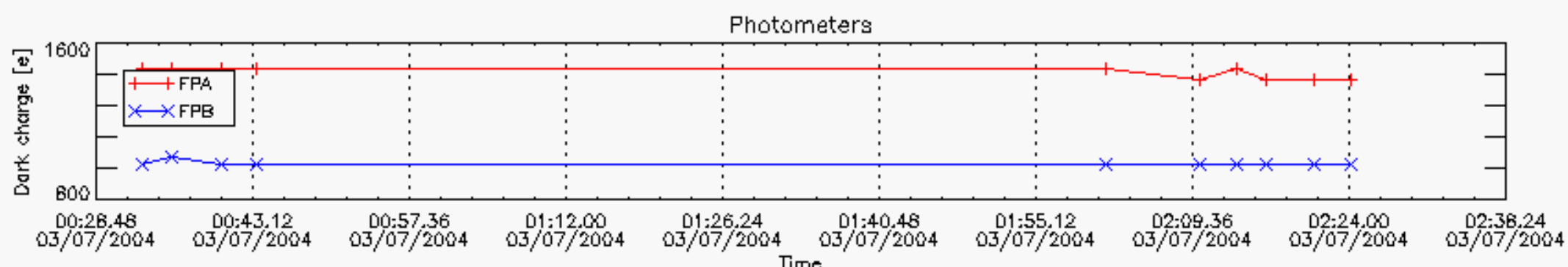
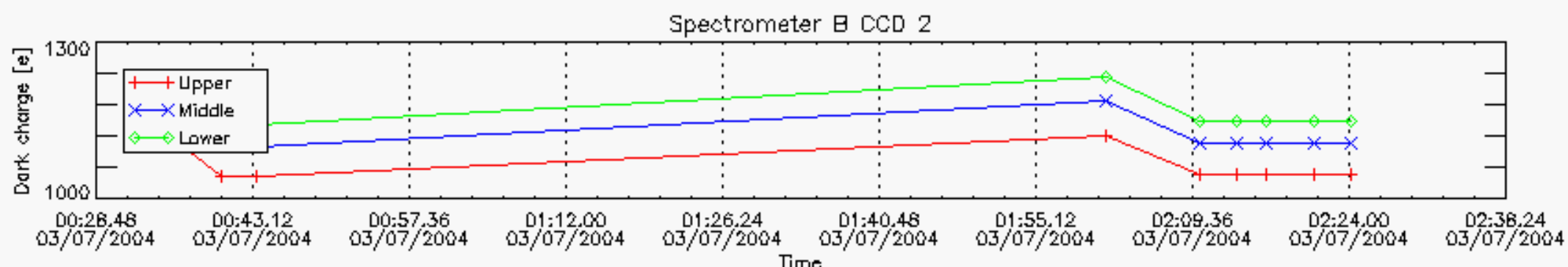
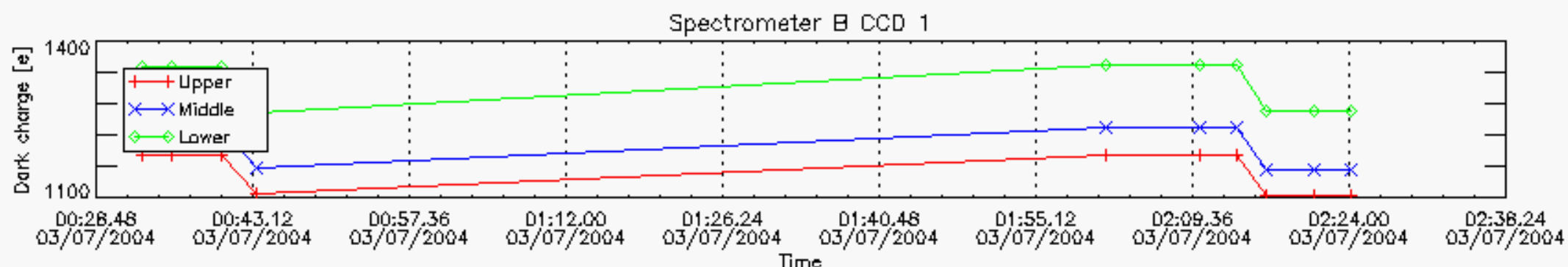
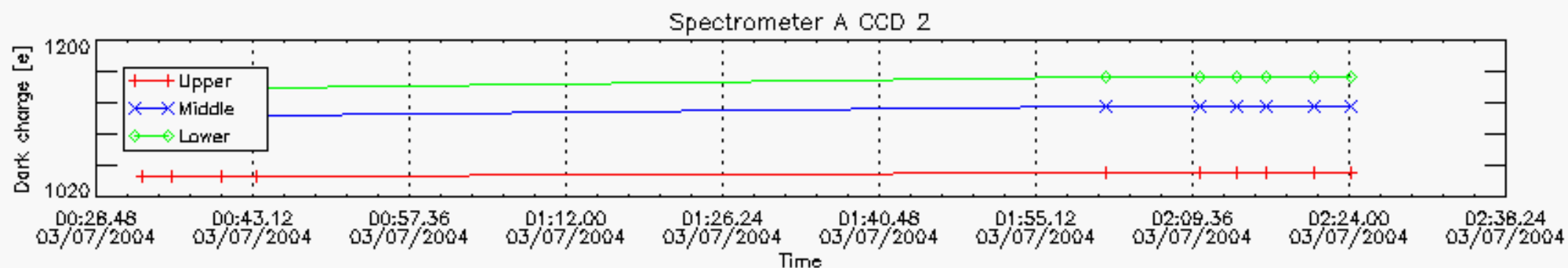
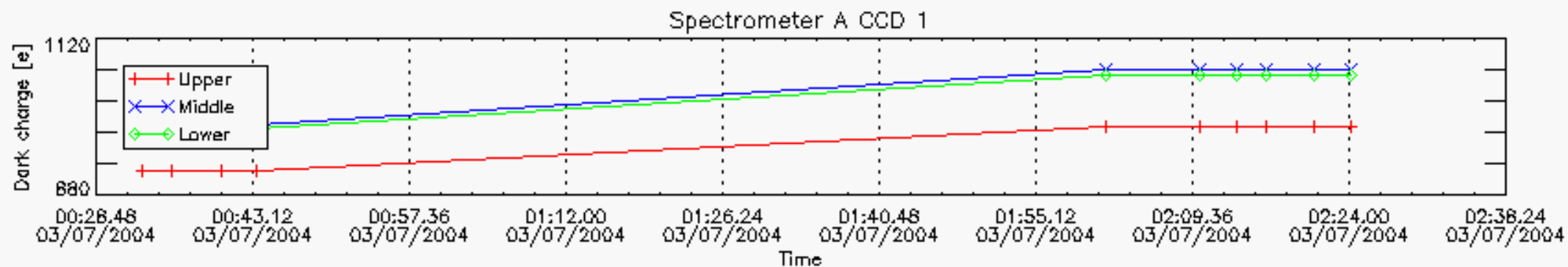


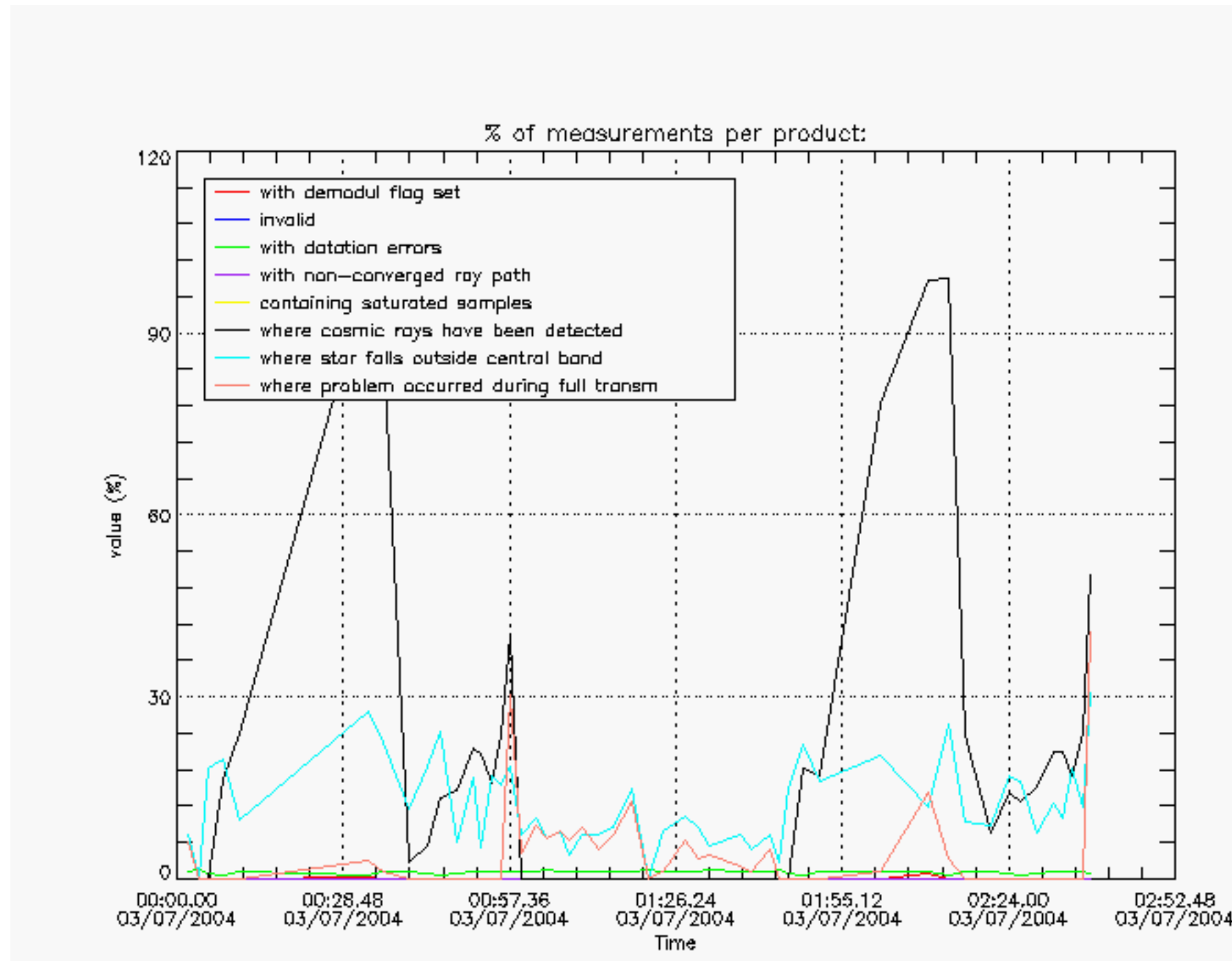
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

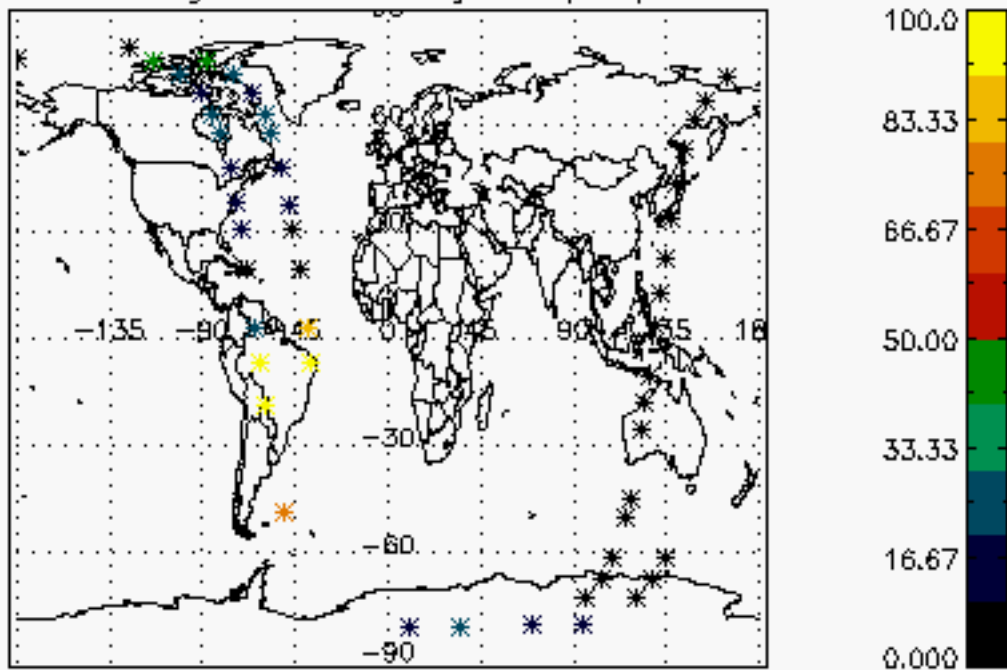
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.6	1460.9	1446.3
St. deviation:	3.8651	4.9093	6.5524	7.2993
Maximum:	1490.0	1485.0	1504.0	1490.0
Minimum:	1448.0	1442.0	1443.0	1431.0
Number of data:	14000.	14000.	31800.	31800.



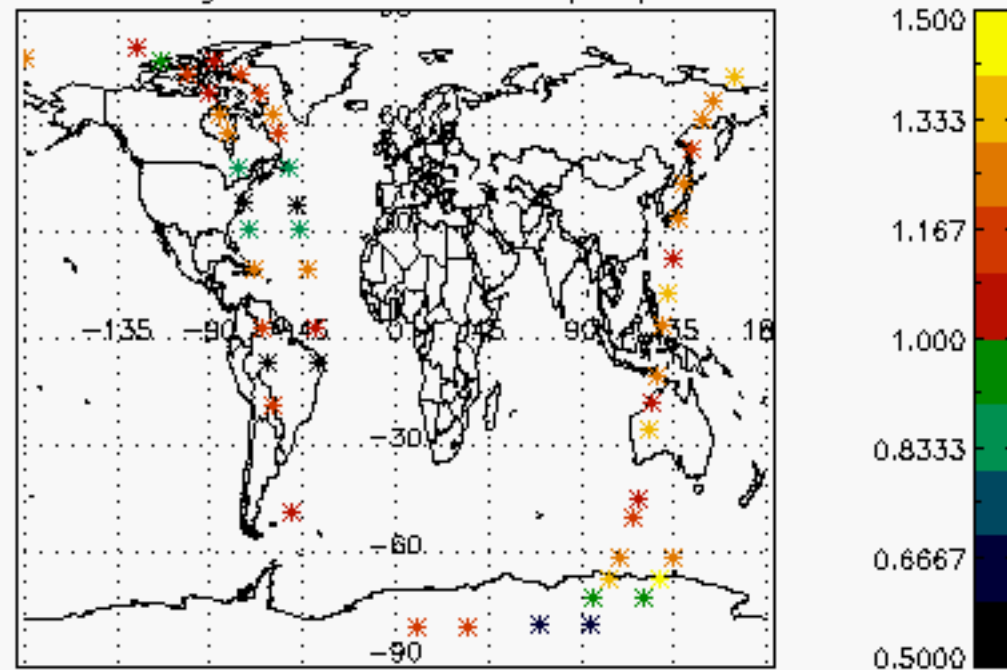




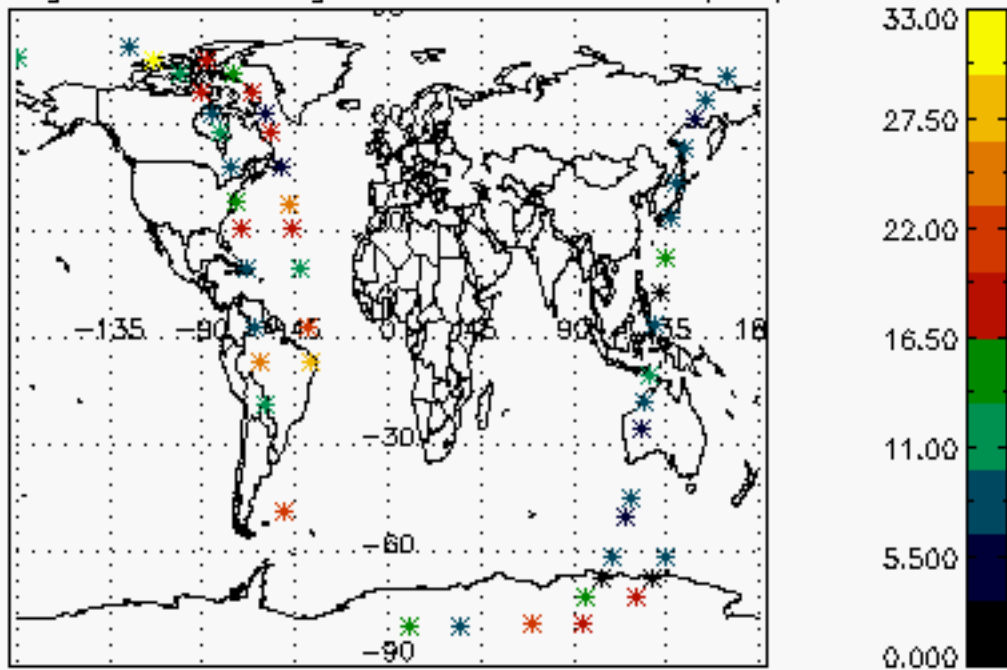
Percentage of cosmic ray hits per profile



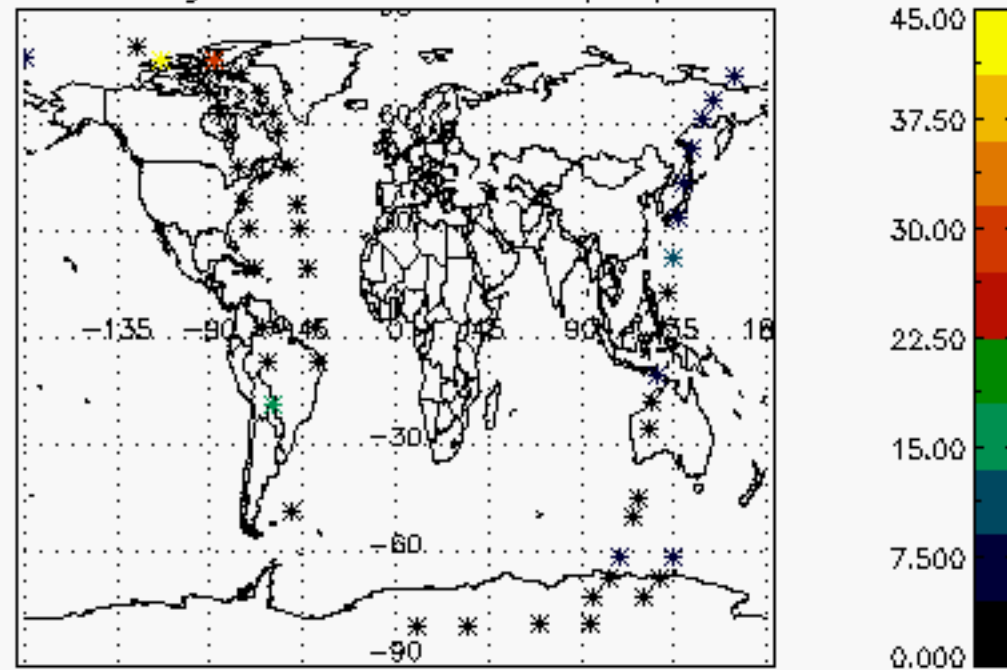
Percentage of datation errors per profile



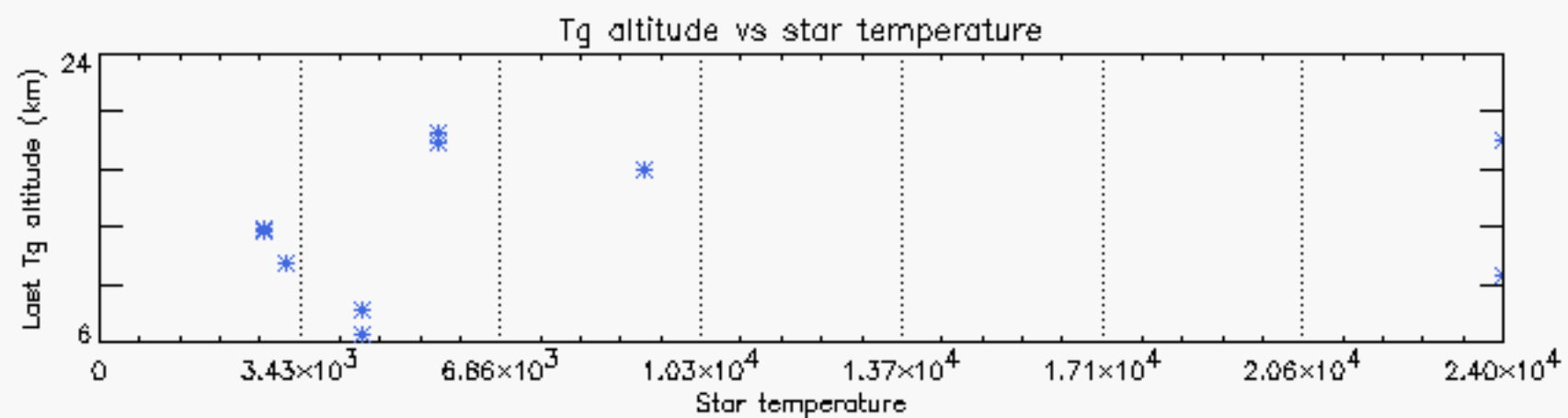
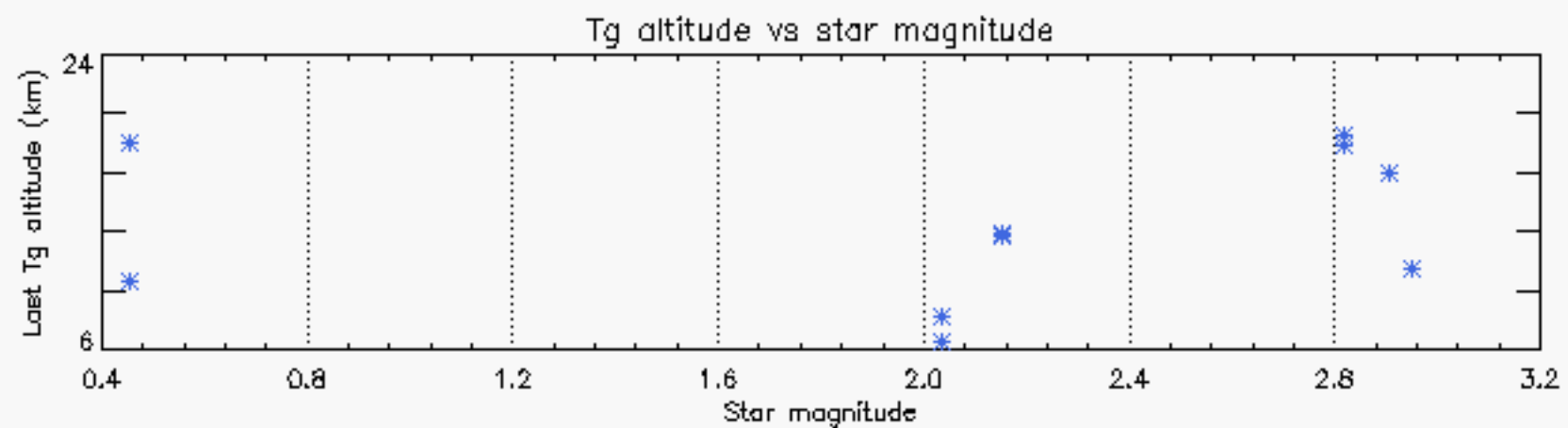
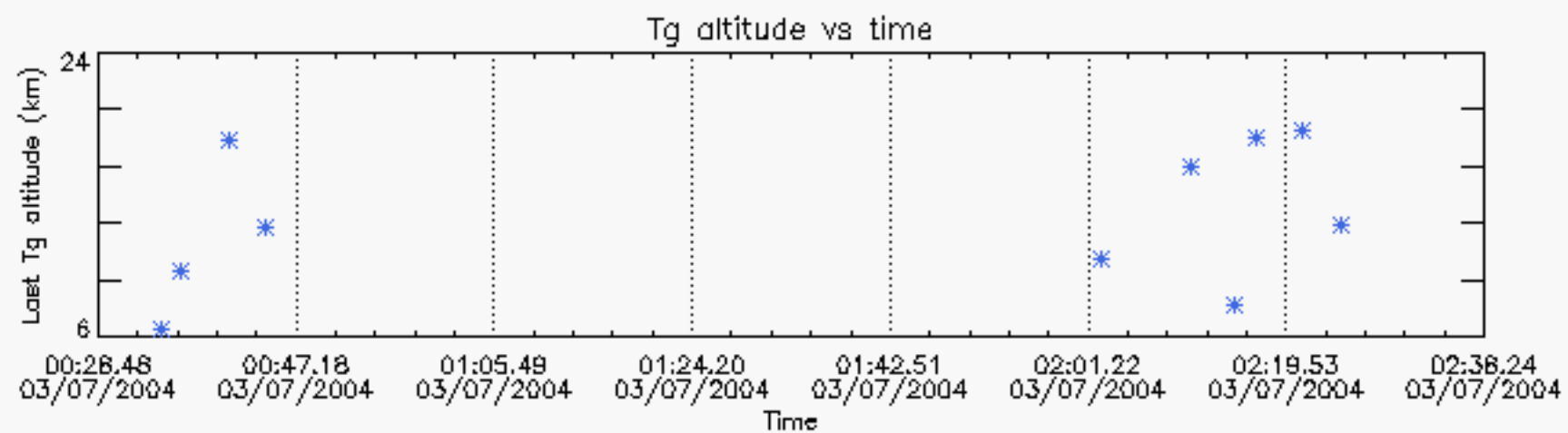
Percentage of star falling outside central band per profile



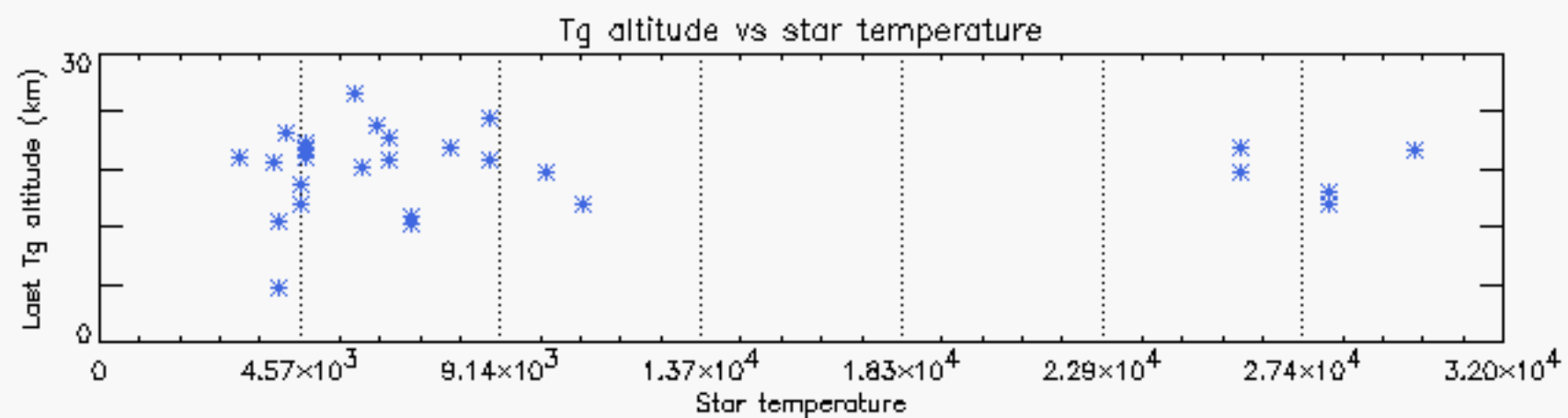
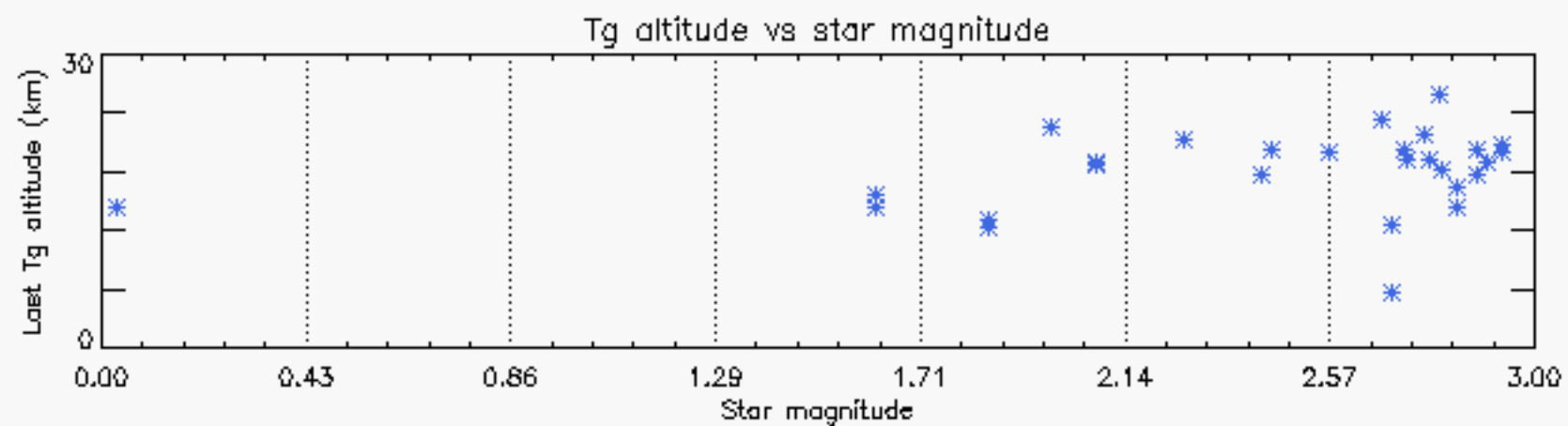
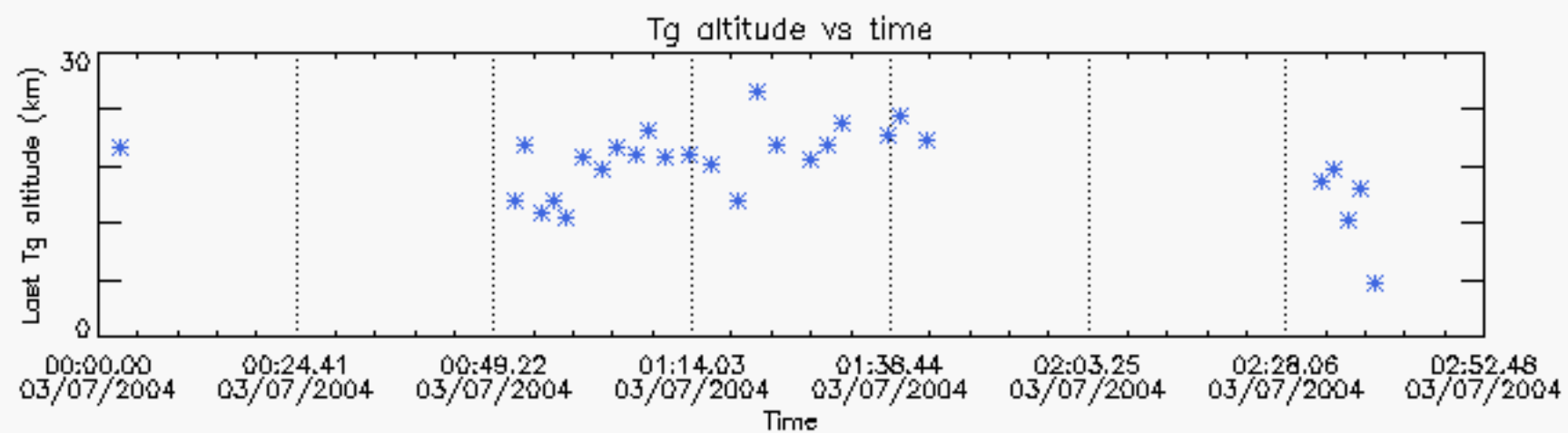
Percentage of saturation errors per profile



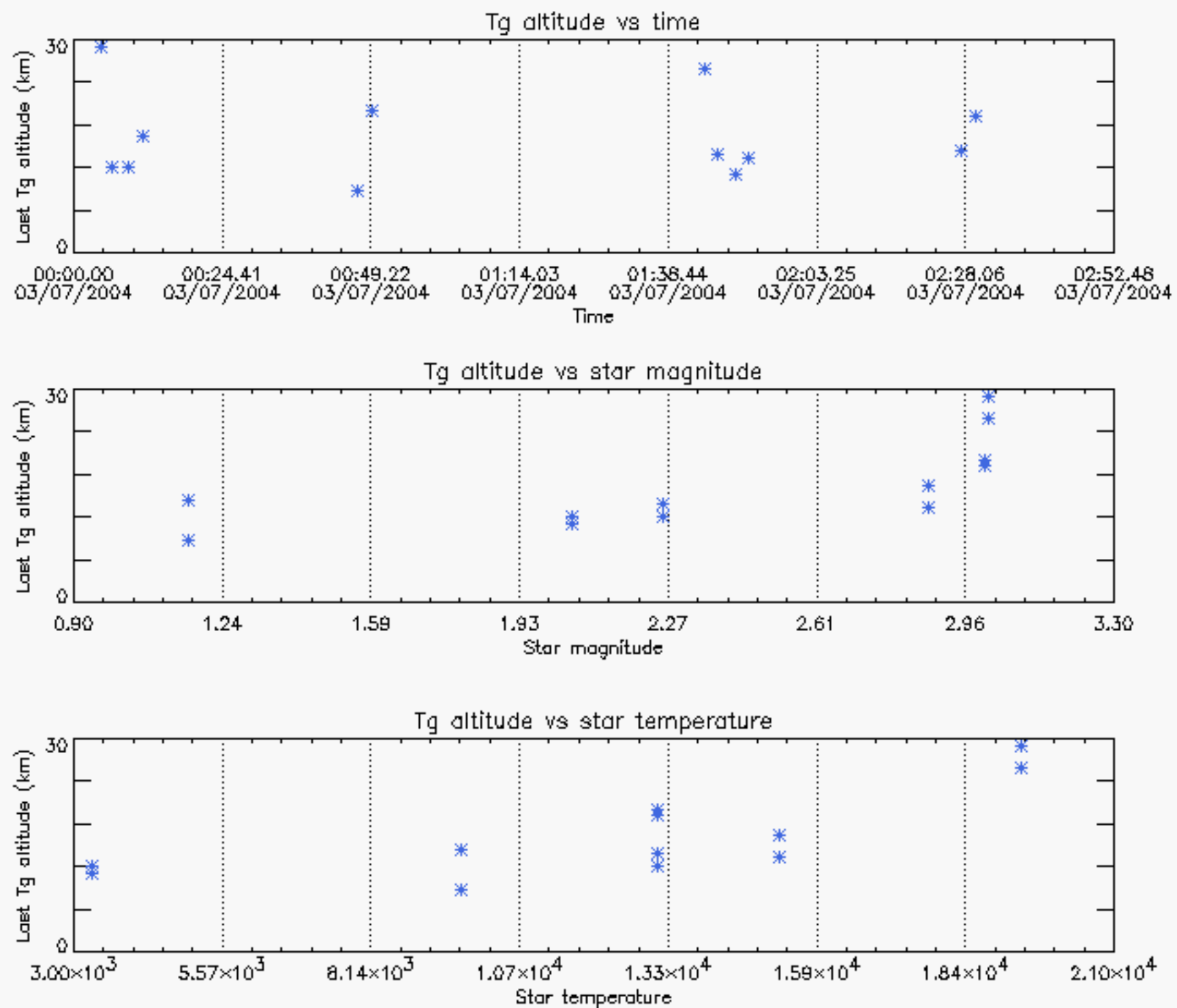
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL__0PNPDE20040701_012416_000043092028_00131_12209_0074.N1

1;	-831.6;	01-JUL-2004	01:24:16;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;occ;	95;	9;	12209
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
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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
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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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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
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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
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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
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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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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
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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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16; 589.3; 01-JUL-2004 05:09:08; Dark ; 85.5; 18; 24Alp PsA ; 1.17; 9700;occ; 171; 0;12212
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19; 1062.9; 01-JUL-2004 05:17:02; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;12212
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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
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31; 2647.1; 01-JUL-2004 05:43:26; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;12212
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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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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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3;	-4863.2;	02-JUL-2004	18:12:03;	Dark	;	45.0;	40;	The Sco	;	1.86;	7100;	occ;	90;	0;	12234
4;	-4761.7;	02-JUL-2004	18:13:44;	Dark	;	41.5;	25;	35Lam Sco	;	1.62;	28000;	occ;	83;	0;	12234
5;	-4675.6;	02-JUL-2004	18:15:10;	Dark	;	46.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	93;	0;	12234
6;	-4552.4;	02-JUL-2004	18:17:14;	Bright;	;	45.5;	155;	41Pi Sgr	;	2.90;	6600;	occ;	91;	0;	12234
7;	-4390.6;	02-JUL-2004	18:19:55;	Bright;	;	39.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	78;	0;	12234
8;	-4284.4;	02-JUL-2004	18:21:42;	Bright;	;	37.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	75;	0;	12234
9;	-4152.3;	02-JUL-2004	18:23:54;	Bright;	;	37.5;	120;	1Del Oph	;	2.73;	3200;	occ;	75;	0;	12234
10;	-4056.2;	02-JUL-2004	18:25:30;	Bright;	;	39.0;	126;	60Bet Oph	;	2.77;	4250;	occ;	78;	0;	12234
11;	-3917.1;	02-JUL-2004	18:27:49;	Bright;	;	40.0;	59;	55Alp Oph	;	2.08;	8900;	occ;	80;	0;	12234
12;	-3750.1;	02-JUL-2004	18:30:36;	Bright;	;	38.5;	127;	27Bet Her	;	2.78;	4700;	occ;	77;	0;	12234
13;	-3588.1;	02-JUL-2004	18:33:18;	Bright;	;	37.0;	133;	40Zet Her	;	2.81;	6000;	occ;	74;	0;	12234
14;	-3399.5;	02-JUL-2004	18:36:26;	Bright;	;	47.0;	5;	3Alp Lyr	;	0.03;	11000;	occ;	94;	0;	12234
15;	-3233.1;	02-JUL-2004	18:39:13;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;	occ;	79;	0;	12234
16;	-3084.2;	02-JUL-2004	18:41:42;	Bright;	;	39.0;	119;	14Eta Dra	;	2.73;	4700;	occ;	78;	0;	12234
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
19;	-2595.3;	02-JUL-2004	18:49:51;	Bright;	;	40.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	81;	0;	12234
20;	-2267.5;	02-JUL-2004	18:55:19;	Bright;	;	49.0;	74;	11Bet Cas	;	2.27;	6600;	occ;	98;	0;	12234
21;	-2168.5;	02-JUL-2004	18:56:57;	Bright;	;	41.5;	110;	37Del Cas	;	2.68;	8900;	occ;	83;	0;	12234
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
25;	-1617.0;	02-JUL-2004	19:06:09;	Dark	;	81.0;	53;	43Bet And	;	2.05;	3300;	occ;	162;	0;	12234
26;	-1453.5;	02-JUL-2004	19:08:53;	Dark	;	43.0;	146;	25Eta Tau	;	2.87;	15200;	occ;	86;	0;	12234
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
29;	-830.7;	02-JUL-2004	19:19:15;	Dark	;	47.5;	165;	34Gam Eri	;	2.95;	3200;	occ;	95;	0;	12234
30;	-506.1;	02-JUL-2004	19:24:40;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	12234
31;	-319.7;	02-JUL-2004	19:27:46;	Dark	;	43.5;	157;	The1Eri	;	2.91;	9300;	occ;	87;	0;	12234
32;	-117.1;	02-JUL-2004	19:31:09;	Dark	;	85.0;	52;	16Bet Cet	;	2.04;	4500;	occ;	170;	0;	12234
33;	47.0;	02-JUL-2004	19:33:53;	Dark	;	48.5;	9;	Alp Eri	;	0.45;	24000;	occ;	97;	0;	12235
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
37;	805.7;	02-JUL-2004	19:46:32;	Dark	;	58.0;	172;	Gam Gru	;	3.00;	13100;	occ;	116;	0;	12235

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1;	-2571.3;	03-JUL-2004	06:34:26;	Bright;	;	38.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	76;	42;	12241
2;	-2272.0;	03-JUL-2004	06:39:25;	Bright;	;	50.0;	74;	11Bet Cas	;	2.27;	6600;	occ;	100;	0;	12241
3;	-2171.0;	03-JUL-2004	06:41:07;	Bright;	;	42.0;	110;	37Del Cas	;	2.68;	8900;	occ;	84;	0;	12241
4;	-1976.8;	03-JUL-2004	06:44:21;	Bright;	;	41.0;	160;	23Gam Per	;	2.93;	4700;	occ;	82;	0;	12241
5;	-1870.0;	03-JUL-2004	06:46:08;	Bright;	;	35.0;	175;	39Del Per	;	3.01;	19400;	occ;	70;	0;	12241
6;	-1775.9;	03-JUL-2004	06:47:42;	Bright;	;	54.5;	73;	57Gam1And	;	2.26;	13100;	occ;	109;	0;	12241
7;	-1618.1;	03-JUL-2004	06:50:19;	Dark	;	77.5;	53;	43Bet And	;	2.05;	3300;	occ;	155;	0;	12241
8;	-1451.3;	03-JUL-2004	06:53:06;	Dark	;	44.0;	146;	25Eta Tau	;	2.87;	15200;	occ;	88;	0;	12241
9;	-1344.6;	03-JUL-2004	06:54:53;	Dark	;	65.0;	50;	13Alp Ari	;	2.01;	4250;	occ;	130;	0;	12241
10;	-1043.1;	03-JUL-2004	06:59:54;	Dark	;	45.0;	94;	92Alp Cet	;	2.53;	3100;	occ;	90;	0;	12241
11;	-825.8;	03-JUL-2004	07:03:32;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;	occ;	81;	0;	12241
12;	-499.5;	03-JUL-2004	07:08:58;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	12241
13;	-315.9;	03-JUL-2004	07:12:02;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;	occ;	82;	0;	12241
14;	-103.9;	03-JUL-2004	07:15:34;	Dark	;	96.5;	52;	16Bet Cet	;	2.04;	4500;	occ;	193;	0;	12241
15;	53.7;	03-JUL-2004	07:18:11;	Dark	;	50.5;	9;	Alp Eri	;	0.45;	24000;	occ;	101;	0;	12242
16;	323.2;	03-JUL-2004	07:22:41;	Dark	;	38.5;	135;	Bet Hyi	;	2.82;	5800;	occ;	77;	0;	12242
17;	520.0;	03-JUL-2004	07:25:57;	Dark	;	55.5;	63;	Bet Gru	;	2.15;	2800;	occ;	111;	0;	12242
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
21;	1069.0;	03-JUL-2004	07:35:06;	Dark	;	40.0;	147;	Alp Ara	;	2.88;	26000;	occ;	80;	0;	12242
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
24;	1363.3;	03-JUL-2004	07:40:01;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	103;	0;	12242
25;	1486.5;	03-JUL-2004	07:42:04;	Bright;	;	44.5;	155;	41Pi Sgr	;	2.90;	6600;	occ;	89;	0;	12242
26;	1647.4;	03-JUL-2004	07:44:45;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;	occ;	74;	0;	12242

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1;	-4352.6;	03-JUL-2004	07:45:21;	Bright;	;	37.5;	86;	35Eta Oph	;	2.43;	10200;	occ;	75;	72;	12242
2;	-4282.1;	03-JUL-2004	07:46:31;	Bright;	;	37.5;	98;	13Zet Oph	;	2.57;	30000;	occ;	75;	0;	12242

3;	-4150.3;	03-JUL-2004 07:48:43;	Bright;	38.5;	120;	1Del Oph	;	2.73;	3200;occ;	77;	0;	12242	
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	
8;	-3402.2;	03-JUL-2004 08:01:11;	Bright;	45.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	90;	0;	12242	
9;	-3233.2;	03-JUL-2004 08:04:00;	Bright;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	12242	
10;	-3082.9;	03-JUL-2004 08:06:31;	Bright;	37.5;	119;	14Eta Dra	;	2.73;	4700;occ;	75;	0;	12242	
11;	-2840.2;	03-JUL-2004 08:10:33;	Bright;	38.0;	60;	7Bet UMi	;	2.08;	3950;occ;	76;	0;	12242	
12;	-2718.5;	03-JUL-2004 08:12:35;	Bright;	46.0;	89;	5Alp Cep	;	2.45;	8000;occ;	92;	0;	12242	
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	
15;	-2171.2;	03-JUL-2004 08:21:42;	Bright;	51.5;	110;	37Del Cas	;	2.68;	8900;occ;	103;	0;	12242	
16;	-1976.9;	03-JUL-2004 08:24:57;	Bright;	38.5;	160;	23Gam Per	;	2.93;	4700;occ;	77;	0;	12242	
17;	-1870.0;	03-JUL-2004 08:26:43;	Bright;	40.5;	175;	39Del Per	;	3.01;	19400;occ;	81;	0;	12242	
18;	-1774.2;	03-JUL-2004 08:28:19;	Bright;	54.5;	73;	57Gam1And	;	2.26;	13100;occ;	109;	0;	12242	
19;	-1617.5;	03-JUL-2004 08:30:56;	Dark	;	83.0;	53;	43Bet And	;	2.05;	3300;occ;	166;	0;	12242
20;	-1450.9;	03-JUL-2004 08:33:43;	Dark	;	41.5;	146;	25Eta Tau	;	2.87;	15200;occ;	83;	0;	12242
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
25;	-315.1;	03-JUL-2004 08:52:38;	Dark	;	41.0;	157;	The1Eri	;	2.91;	9300;occ;	82;	0;	12242
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
29;	521.8;	03-JUL-2004 09:06:35;	Dark	;	56.5;	63;	Bet Gru	;	2.15;	2800;occ;	113;	0;	12243
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
32;	980.6;	03-JUL-2004 09:14:14;	Dark	;	42.5;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	12243
33;	1069.0;	03-JUL-2004 09:15:42;	Dark	;	41.5;	147;	Alp Ara	;	2.88;	26000;occ;	83;	0;	12243
34;	1177.6;	03-JUL-2004 09:17:31;	Dark	;	44.0;	40;	The Sco	;	1.86;	7100;occ;	88;	0;	12243
35;	1277.5;	03-JUL-2004 09:19:11;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;	12243
36;	1363.4;	03-JUL-2004 09:20:37;	Dark	;	51.5;	116;	19Del Sgr	;	2.70;	4100;occ;	103;	0;	12243
37;	1486.7;	03-JUL-2004 09:22:40;	Bright;	44.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	88;	0;	12243	
38;	1647.5;	03-JUL-2004 09:25:21;	Bright;	37.5;	86;	35Eta Oph	;	2.43;	10200;occ;	75;	0;	12243	
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1;	-4281.8;	03-JUL-2004 09:27:08;	Bright;	38.0;	98;	13Zet Oph	;	2.57;	30000;occ;	76;	0;	12243	
2;	-4150.0;	03-JUL-2004 09:29:19;	Bright;	38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	12243	
3;	-4055.2;	03-JUL-2004 09:30:54;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	12243	
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	
8;	-3233.6;	03-JUL-2004 09:44:36;	Bright;	38.0;	130;	23Bet Dra	;	2.80;	5800;occ;	76;	0;	12243	
9;	-3083.0;	03-JUL-2004 09:47:06;	Bright;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	12243	
10;	-2840.3;	03-JUL-2004 09:51:09;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	12243	
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	
14;	-2171.5;	03-JUL-2004 10:02:18;	Bright;	44.0;	110;	37Del Cas	;	2.68;	8900;occ;	88;	0;	12243	
15;	-1977.0;	03-JUL-2004 10:05:32;	Bright;	39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;	12243	
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	
18;	-1617.4;	03-JUL-2004 10:11:32;	Dark	;	78.0;	53;	43Bet And	;	2.05;	3300;occ;	156;	0;	12243
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
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22; 1337.9; 22-JUL-2004 06:01:55; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;12513
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3;-4214.5; 31-JUL-2004 16:30:48; Bright; 55.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 110; 0;12648
4;-3978.8; 31-JUL-2004 16:34:44; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;12648
5;-3893.2; 31-JUL-2004 16:36:09; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;12648
6;-3468.3; 31-JUL-2004 16:43:14; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;12648
7;-3387.4; 31-JUL-2004 16:44:35; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;12648
8;-3241.1; 31-JUL-2004 16:47:02; Bright; 39.5; 69; 33Gam Dra ; 2.23; 3800;occ; 79; 0;12648
9;-3001.3; 31-JUL-2004 16:51:01; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12648
10;-2751.9; 31-JUL-2004 16:55:11; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;12648
11;-2596.6; 31-JUL-2004 16:57:46; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;12648
12;-2439.6; 31-JUL-2004 17:00:23; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;12648
13;-2057.7; 31-JUL-2004 17:06:45; Bright; 64.0; 160; 23Gam Per ; 2.93; 4700;occ; 128; 0;12648
14;-1880.9; 31-JUL-2004 17:09:42; Bright; 82.5; 73; 57Gam1And ; 2.26; 13100;occ; 165; 0;12648
15;-1713.0; 31-JUL-2004 17:12:30; Dark ; 250.0; 53; 43Bet And ; 2.05; 3300;occ; 500; 0;12648
16;-1398.8; 31-JUL-2004 17:17:44; Dark ; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;12648
17;-1247.4; 31-JUL-2004 17:20:15; Dark ; 63.0; 13; 87Alp Tau ; 0.87; 3800;occ; 126; 0;12648
18;-1127.3; 31-JUL-2004 17:22:15; Dark ; 45.5; 27; 24Gam Ori ; 1.64; 26000;occ; 91; 0;12648
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