

GOMOS Daily Report 14-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	16JUL2004 04:01:21
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (14JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	47
Nb of prods with errors	1

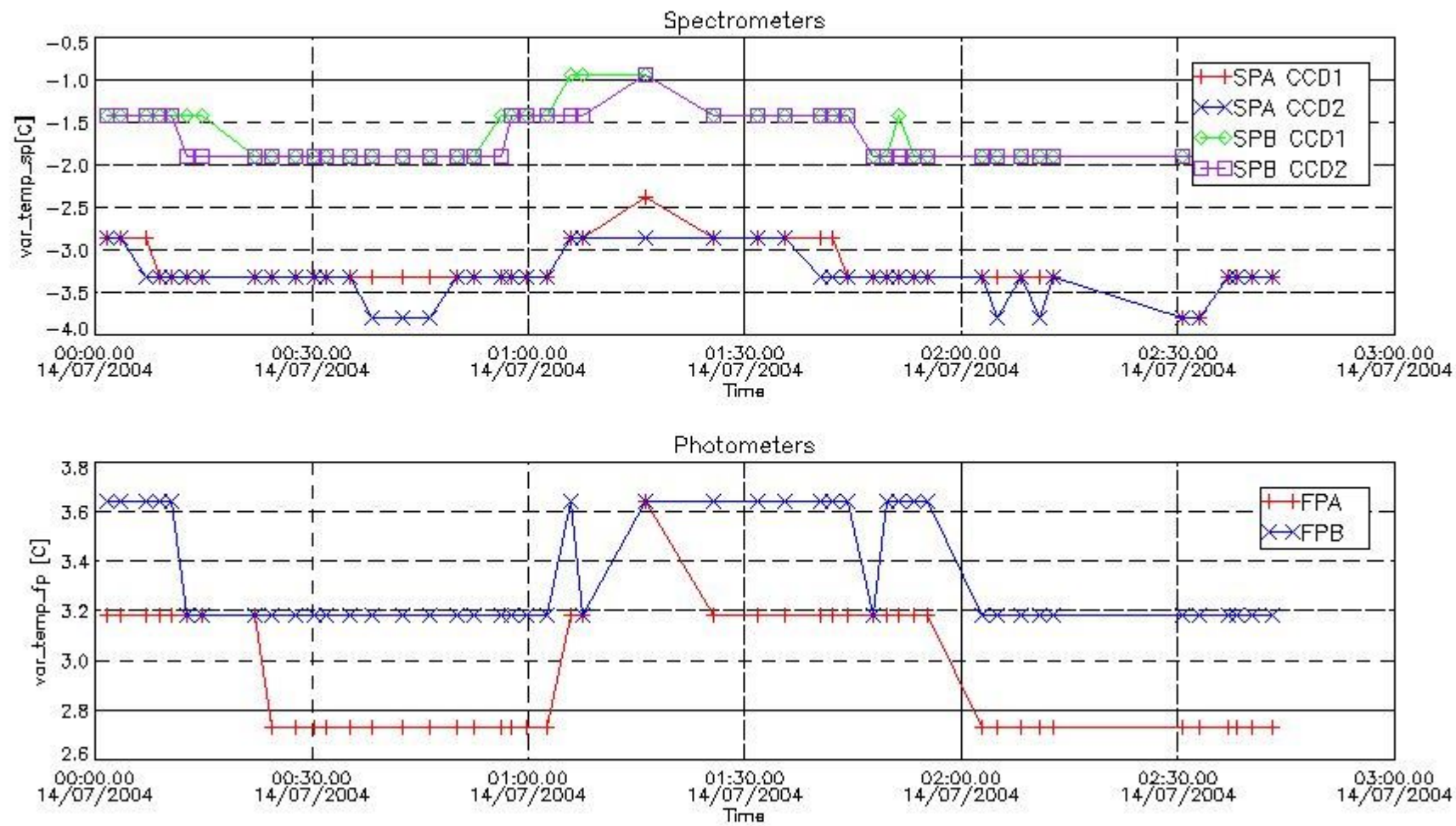
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 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_1PNPDE20040714_000134_000000522028_00317_12395_0004.N1	14-JUL-2004 00:01:34	Twilight	51.500	31	Alp Gru	1.7340	15200.	103	12395	No
GOM_TRA_1PNPDE20040714_000334_000000882028_00317_12395_0005.N1	14-JUL-2004 00:03:34	Bright	88.000	18	24Alp PsA	1.1660	9700.0	176	12395	No
GOM_TRA_1PNPDE20040714_000707_000000402028_00317_12395_0006.N1	14-JUL-2004 00:07:07	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12395	No
GOM_TRA_1PNPDE20040714_000900_000000442028_00317_12395_0007.N1	14-JUL-2004 00:09:00	Bright	44.000	40	The Sco	1.8590	7100.0	88	12395	No
GOM_TRA_1PNPDE20040714_001039_000000442028_00317_12395_0008.N1	14-JUL-2004 00:10:39	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	12395	No
GOM_TRA_1PNPDE20040714_001246_000000432028_00317_12395_0009.N1	14-JUL-2004 00:12:46	Bright	42.500	57	34Sig Sgr	2.0660	26000.	85	12395	No
GOM_TRA_1PNPDE20040714_001444_000000862028_00317_12395_0010.N1	14-JUL-2004 00:14:44	Bright	86.000	142	49Del Cap	2.8500	8900.0	172	12395	No
GOM_TRA_1PNPDE20040714_002207_000000372028_00317_12395_0011.N1	14-JUL-2004 00:22:07	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	12395	No
GOM_TRA_1PNPDE20040714_002424_000000382028_00317_12395_0012.N1	14-JUL-2004 00:24:24	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12395	No
GOM_TRA_1PNPDE20040714_002743_000000412028_00317_12395_0013.N1	14-JUL-2004 00:27:43	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	12395	No
GOM_TRA_1PNPDE20040714_003014_000000392028_00317_12395_0014.N1	14-JUL-2004 00:30:14	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	12395	No
GOM_TRA_1PNPDE20040714_003202_000000442028_00317_12395_0015.N1	14-JUL-2004 00:32:02	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	12395	No
GOM_TRA_1PNPDE20040714_003519_000000362028_00317_12395_0016.N1	14-JUL-2004 00:35:19	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	12395	No
GOM_TRA_1PNPDE20040714_003827_000000382028_00317_12395_0017.N1	14-JUL-2004 00:38:27	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12395	No
GOM_TRA_1PNPDE20040714_004240_000000362028_00317_12395_0018.N1	14-JUL-2004 00:42:40	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	12395	No
GOM_TRA_1PNPDE20040714_004619_000000372028_00317_12395_0019.N1	14-JUL-2004 00:46:19	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	12395	No
GOM_TRA_1PNPDE20040714_005006_000000522028_00317_12395_0020.N1	14-JUL-2004 00:50:06	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	12395	No
GOM_TRA_1PNPDE20040714_005223_000000462028_00317_12395_0021.N1	14-JUL-2004 00:52:23	Bright	45.500	110	37Del Cas	2.6780	8900.0	91	12395	No
GOM_TRA_1PNPDE20040714_005618_000000432028_00317_12395_0022.N1	14-JUL-2004 00:56:18	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	12395	No
GOM_TRA_1PNPDE20040714_005737_000000432028_00317_12395_0023.N1	14-JUL-2004 00:57:37	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	12395	No
GOM_TRA_1PNPDE20040714_005939_000000602028_00317_12395_0024.N1	14-JUL-2004 00:59:39	Twilight	60.000	73	57Gam1And	2.2600	13100.	120	12395	No
GOM_TRA_1PNPDE20040714_010229_000001162028_00317_12395_0025.N1	14-JUL-2004 01:02:29	Twilight	115.50	53	43Bet And	2.0480	3300.0	231	12395	No
GOM_TRA_1PNPDE20040714_010553_000000452028_00317_12395_0026.N1	14-JUL-2004 01:05:53	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	12395	No
GOM_TRA_1PNPDE20040714_010728_000000432028_00317_12395_0027.N1	14-JUL-2004 01:07:28	Twilight	43.000	13	87Alp Tau	0.86700	3800.0	86	12395	No
GOM_TRA_1PNPDE20040714_011617_000000392028_00317_12395_0000.N1	14-JUL-2004 01:16:17	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	12395	Yes
GOM_TRA_1PNPDE20040714_012542_000000442028_00317_12395_0001.N1	14-JUL-2004 01:25:42	Dark	43.500	157	The1Eri	2.9060	9300.0	87	12395	No
GOM_TRA_1PNPDE20040714_013151_000000512028_00318_12396_0002.N1	14-JUL-2004 01:31:51	Dark	50.500	9	Alp Eri	0.45300	24000.	101	12396	No
GOM_TRA_1PNPDE20040714_013532_000000392028_00318_12396_0003.N1	14-JUL-2004 01:35:32	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	12396	No
GOM_TRA_1PNPDE20040714_014032_000000672028_00318_12396_0004.N1	14-JUL-2004 01:40:32	Twilight	67.000	63	Bet Gru	2.1500	2800.0	134	12396	No
GOM_TRA_1PNPDE20040714_014210_000000522028_00318_12396_0005.N1	14-JUL-2004 01:42:10	Twilight	51.500	31	Alp Gru	1.7340	15200.	103	12396	No
GOM_TRA_1PNPDE20040714_014411_000000942028_00318_12396_0006.N1	14-JUL-2004 01:44:11	Bright	94.000	18	24Alp PsA	1.1660	9700.0	188	12396	No
GOM_TRA_1PNPDE20040714_014743_000000412028_00318_12396_0007.N1	14-JUL-2004 01:47:43	Bright	40.500	147	Alp Ara	2.8770	26000.	81	12396	No
GOM_TRA_1PNPDE20040714_014935_000000432028_00318_12396_0008.N1	14-JUL-2004 01:49:35	Bright	42.500	40	The Sco	1.8590	7100.0	85	12396	No
GOM_TRA_1PNPDE20040714_015115_000000402028_00318_12396_0009.N1	14-JUL-2004 01:51:15	Bright	40.000	25	35Lam Sco	1.6200	28000.	80	12396	No
GOM_TRA_1PNPDE20040714_015322_000000412028_00318_12396_0010.N1	14-JUL-2004 01:53:22	Bright	40.500	57	34Sig Sgr	2.0660	26000.	81	12396	No
GOM_TRA_1PNPDE20040714_015520_000000862028_00318_12396_0011.N1	14-JUL-2004 01:55:20	Bright	85.500	142	49Del Cap	2.8500	8900.0	171	12396	No
GOM_TRA_1PNPDE20040714_020242_000000392028_00318_12396_0012.N1	14-JUL-2004 02:02:42	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12396	No
GOM_TRA_1PNPDE20040714_020459_000000382028_00318_12396_0013.N1	14-JUL-2004 02:04:59	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12396	No
GOM_TRA_1PNPDE20040714_020819_000000412028_00318_12396_0014.N1	14-JUL-2004 02:08:19	Bright	40.500	127	27Bet Her	2.7810	4700.0	81	12396	No
GOM_TRA_1PNPDE20040714_021051_000000362028_00318_12396_0015.N1	14-JUL-2004 02:10:51	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	12396	No
GOM_TRA_1PNPDE20040714_021237_000000442028_00318_12396_0016.N1	14-JUL-2004 02:12:37	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	12396	No
GOM_TRA_1PNPDE20040714_023041_000000512028_00318_12396_0000.N1	14-JUL-2004 02:30:41	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	12396	No
GOM_TRA_1PNPDE20040714_023258_000000602028_00318_12396_0001.N1	14-JUL-2004 02:32:58	Bright	60.000	110	37Del Cas	2.6780	8900.0	120	12396	No
GOM_TRA_1PNPDE20040714_023653_000000572028_00318_12396_0002.N1	14-JUL-2004 02:36:53	Bright	56.500	160	23Gam Per	2.9300	4700.0	113	12396	No
GOM_TRA_1PNPDE20040714_023813_000000442028_00318_12396_0003.N1	14-JUL-2004 02:38:13	Bright	44.000	35	33Alp Per	1.7950	6250.0	88	12396	No
GOM_TRA_1PNPDE20040714_024015_000000602028_00318_12396_0004.N1	14-JUL-2004 02:40:15	Twilight	59.500	73	57Gam1And	2.2600	13100.	119	12396	No
GOM_TRA_1PNPDE20040714_024305_000001002028_00318_12396_0005.N1	14-JUL-2004 02:43:05	Twilight	99.500	53	43Bet And	2.0480	3300.0	199	12396	No

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



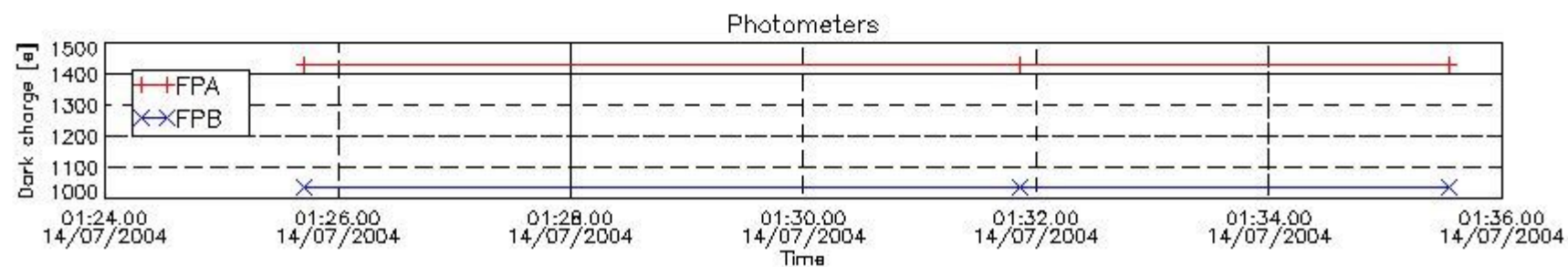
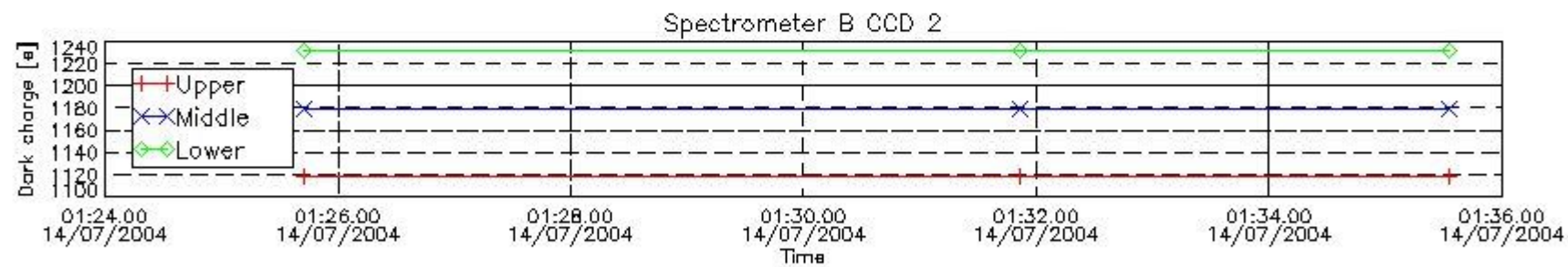
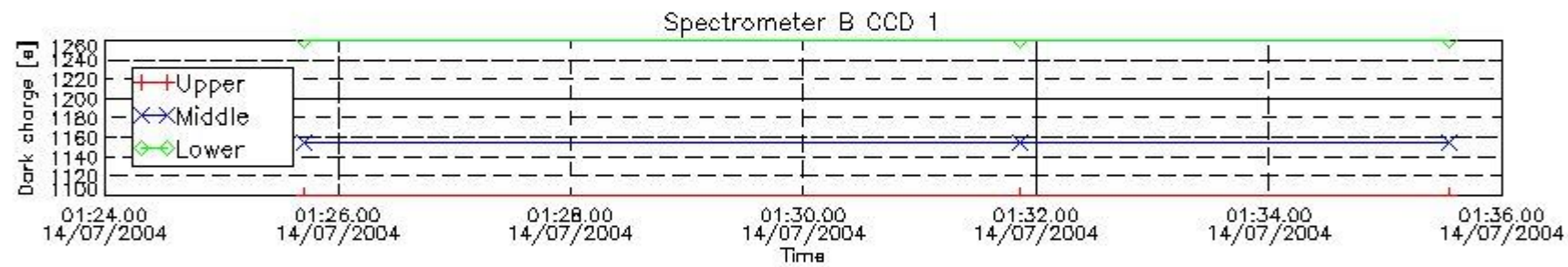
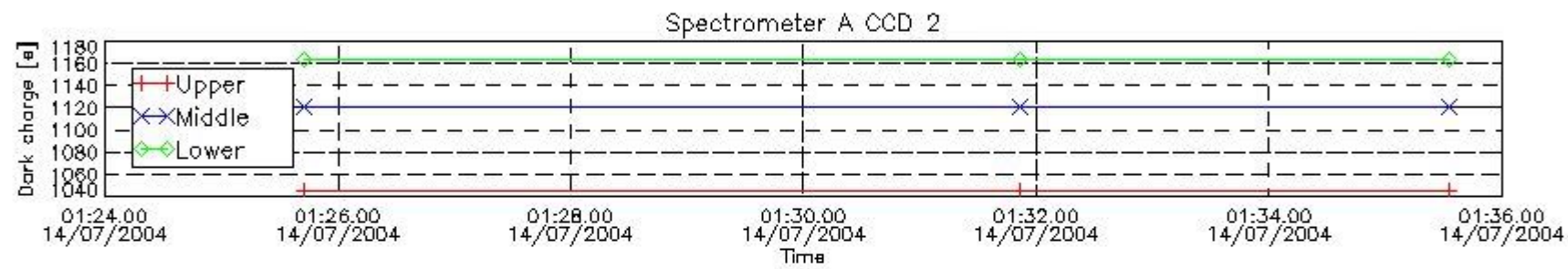
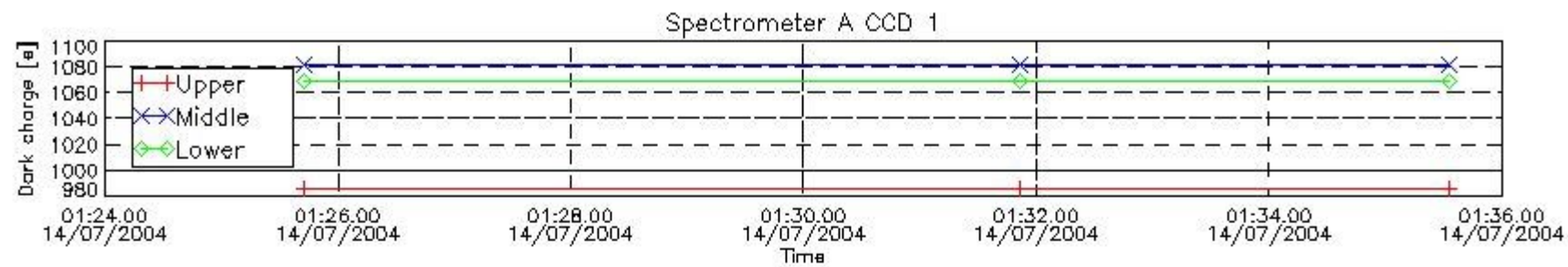
4. Overview of dark signal processing per product

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



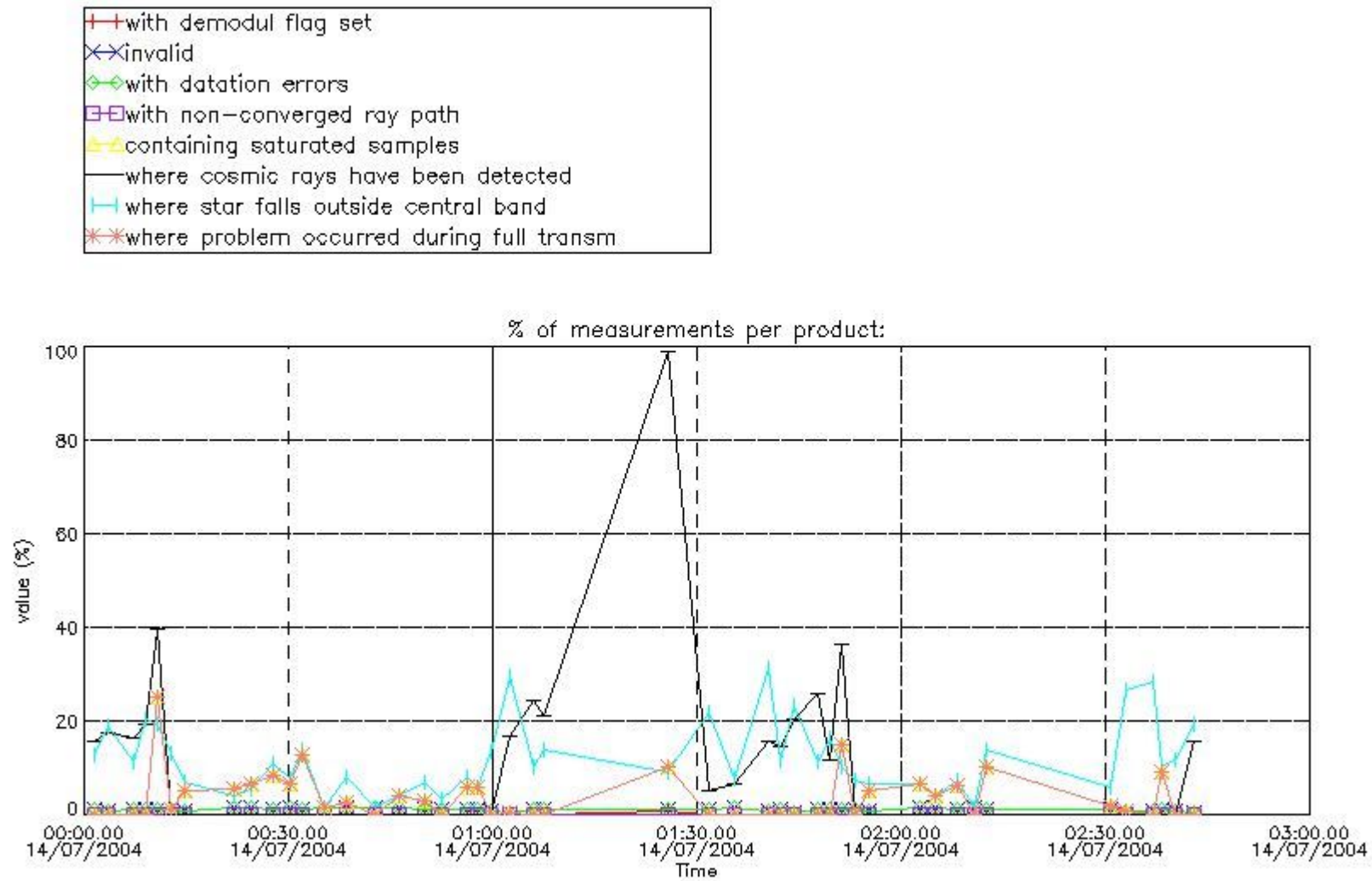
5. Demodulation flag and quality information monitoring

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:

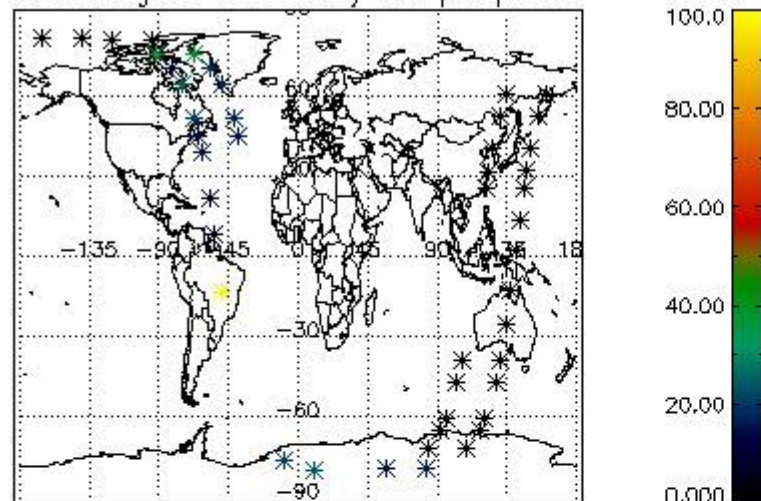
At least one measurement with demodulation flag set:	4.34783 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

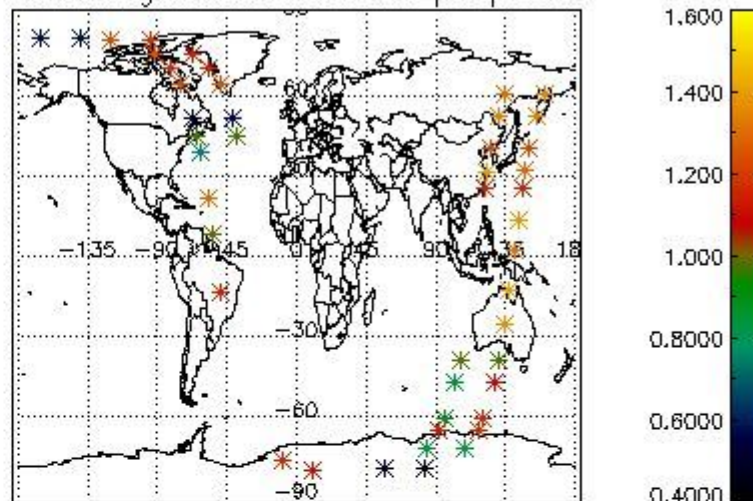


5.3 Plot quality information per product (world map)

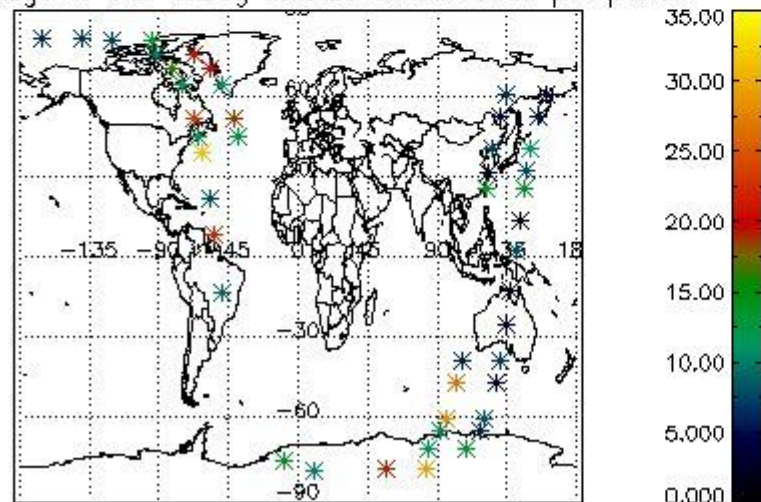
Percentage of cosmic ray hits per profile



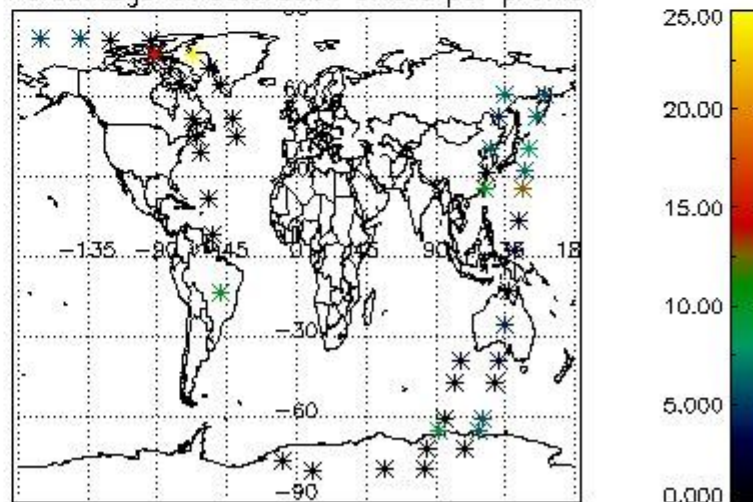
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



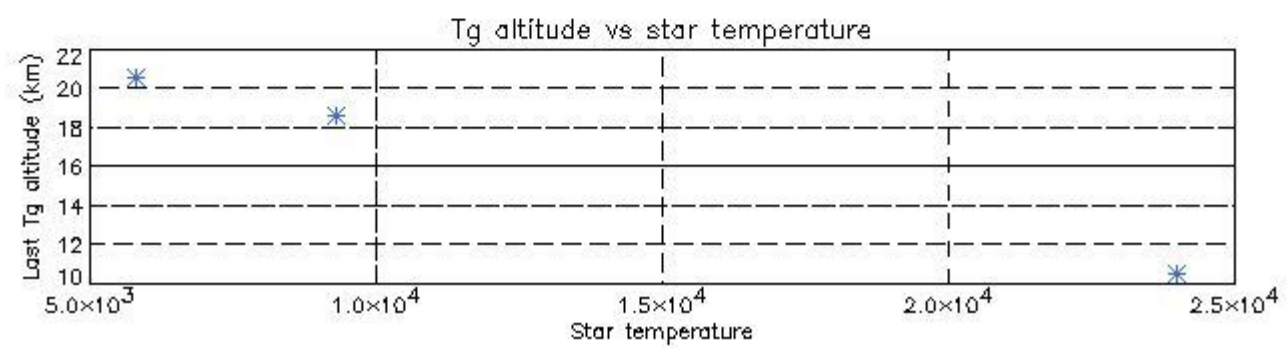
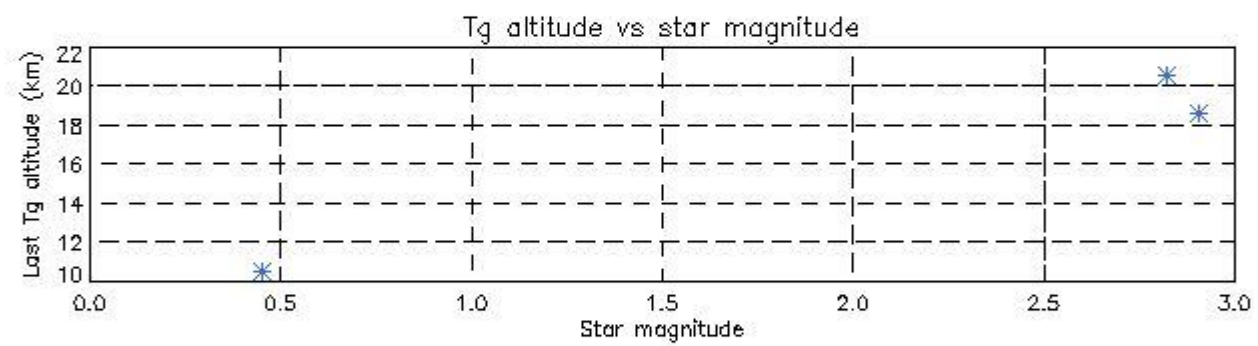
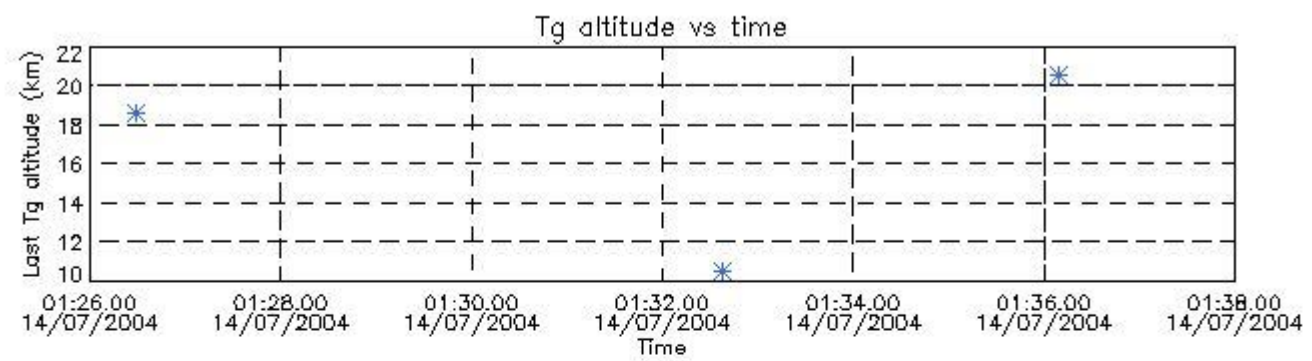
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.530	18.151	13.214
St. deviation:	5.3194	4.4714	4.4691
Maximum:	20.515	25.294	16.861
Minimum:	10.490	8.1132	4.5791
Number of data:	3.0000	34.000	9.0000

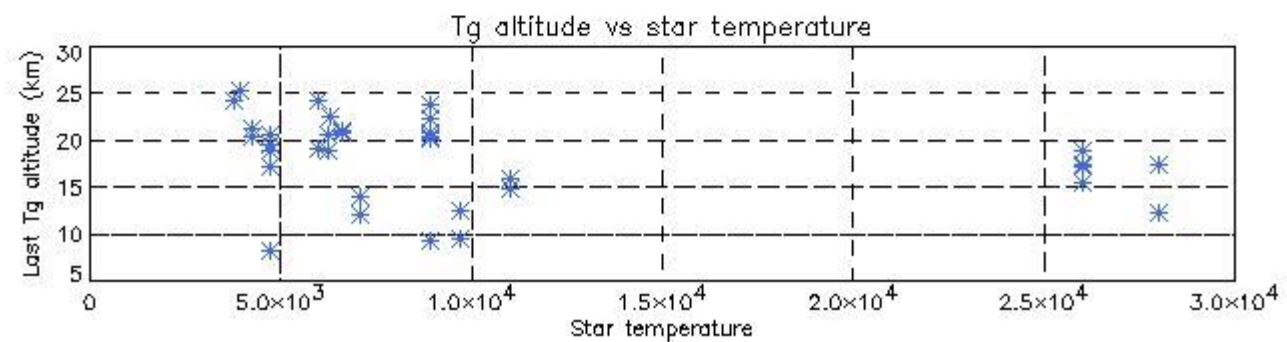
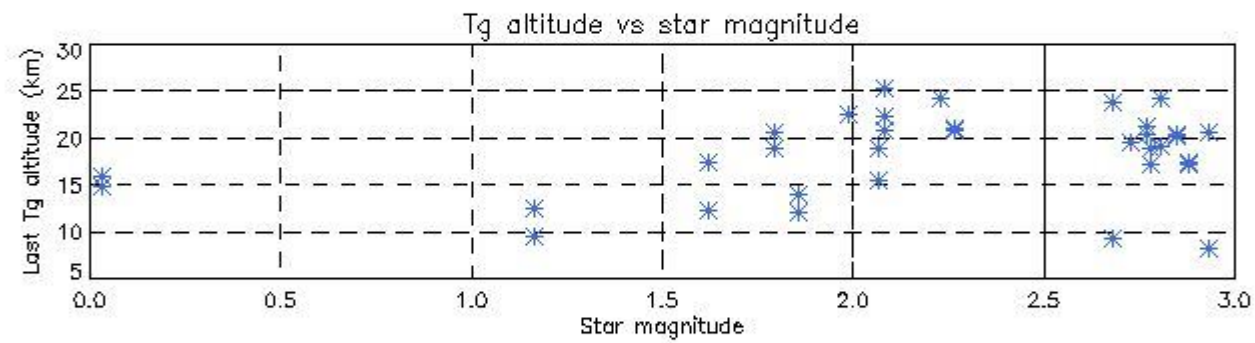
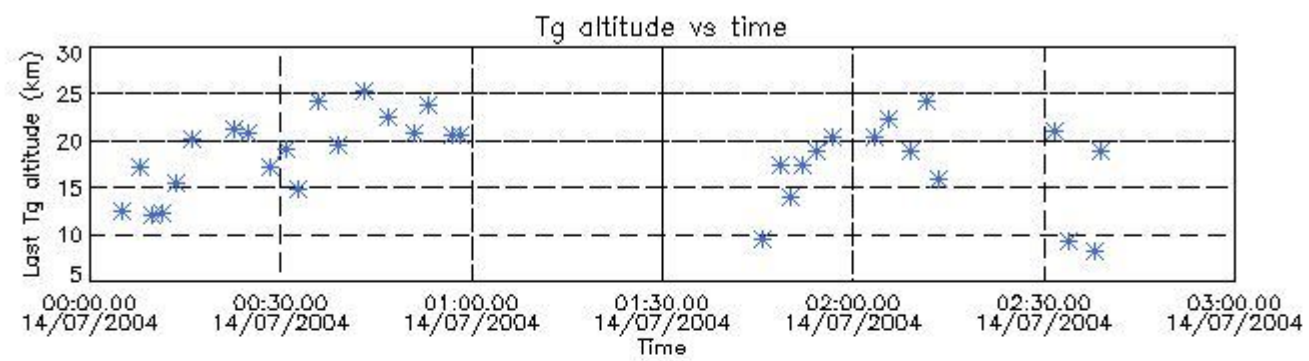
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



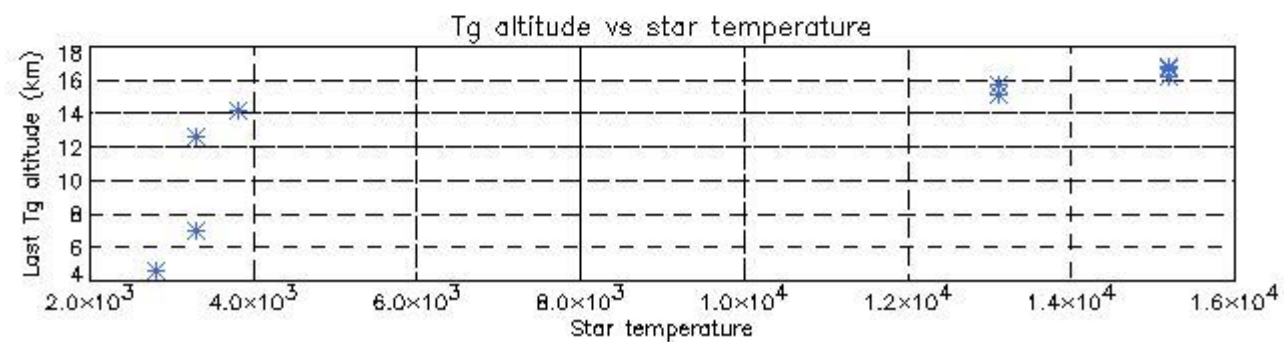
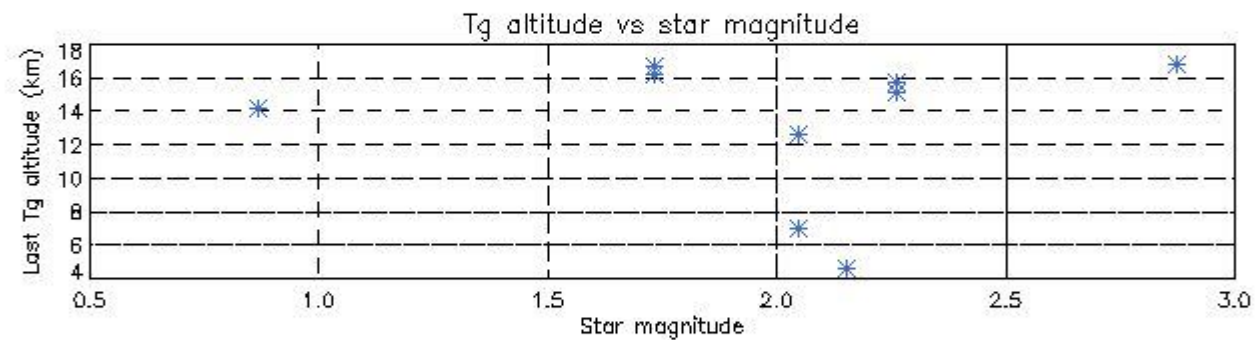
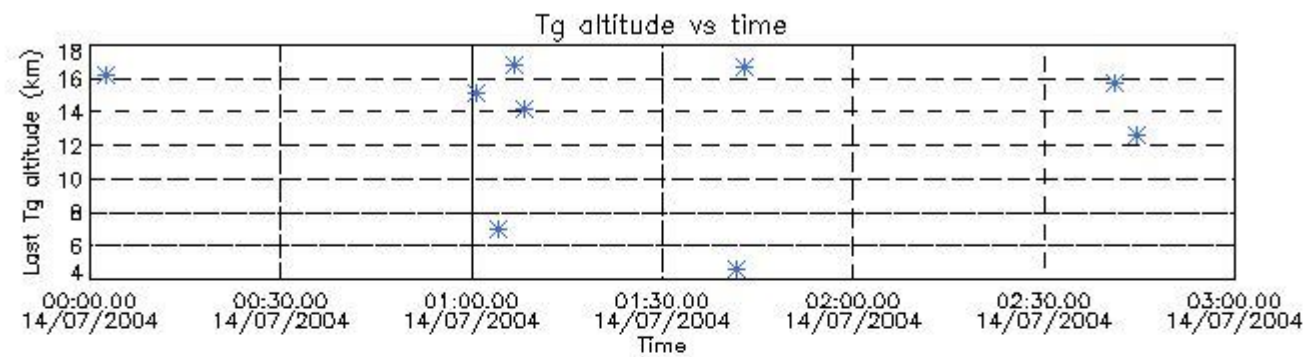
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

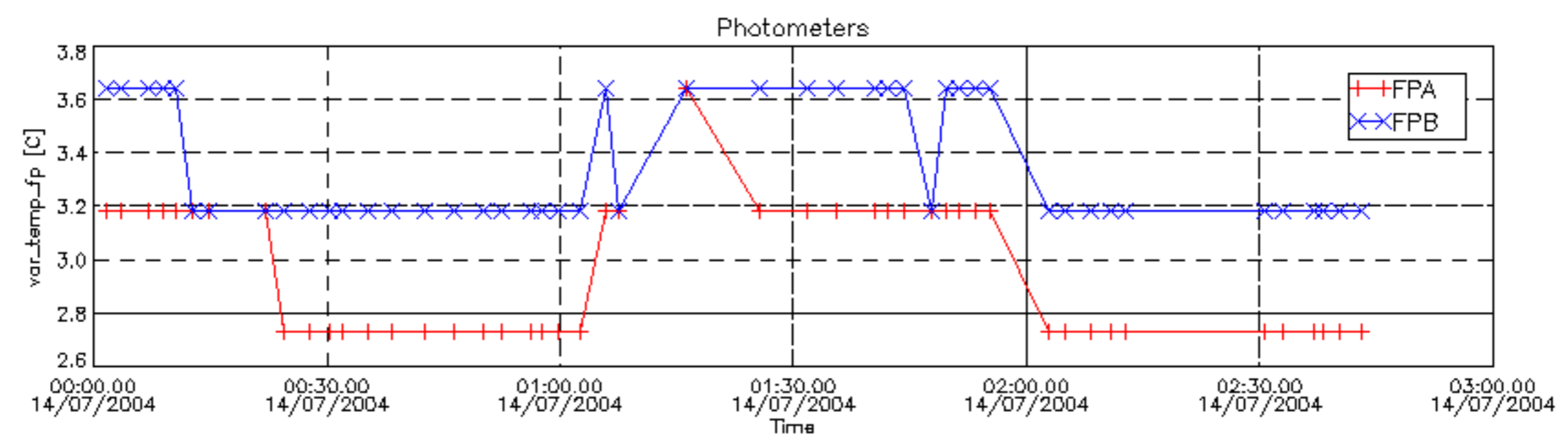
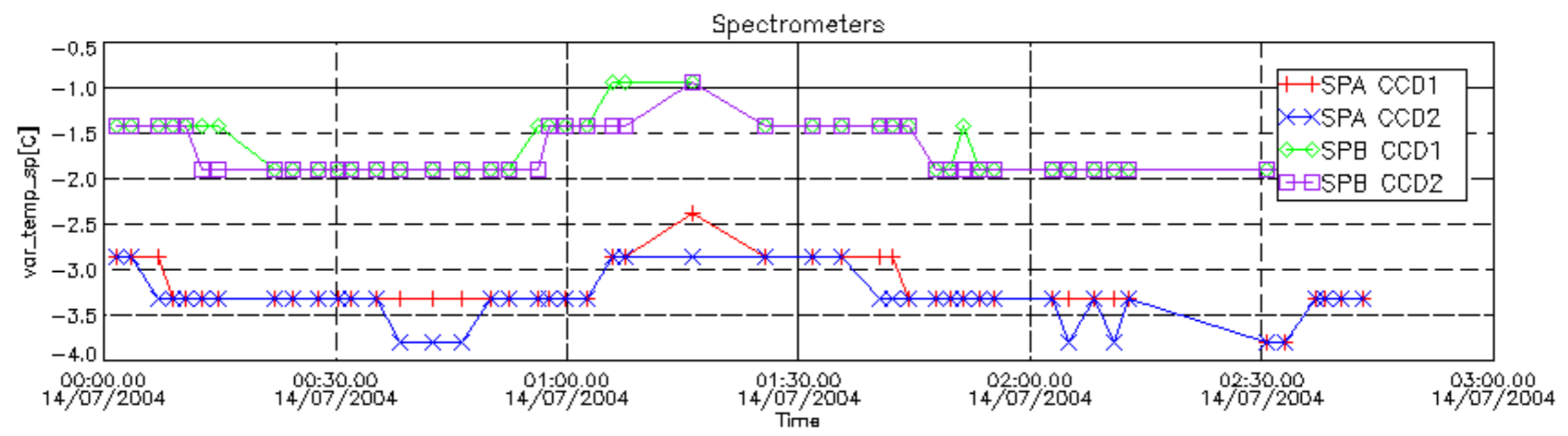
Tangent altitude at which the star is lost

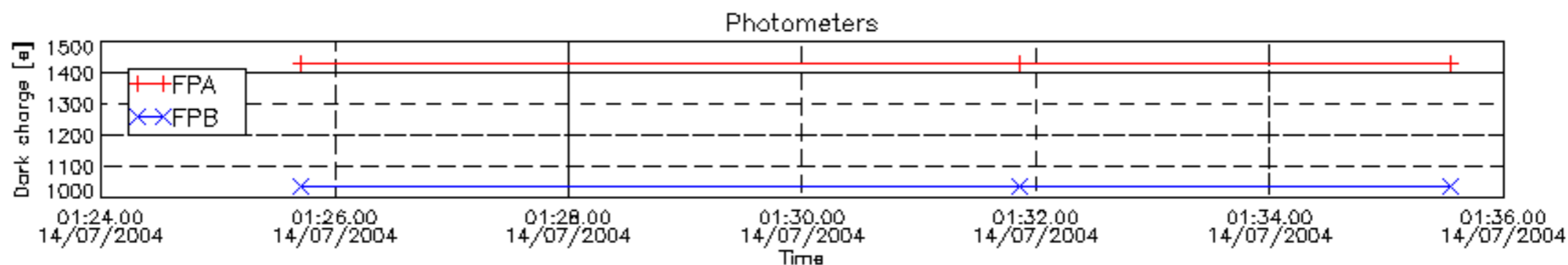
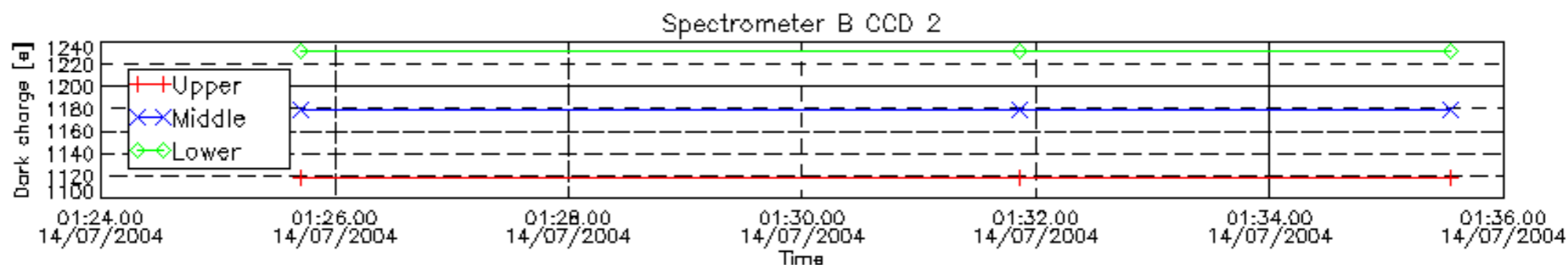
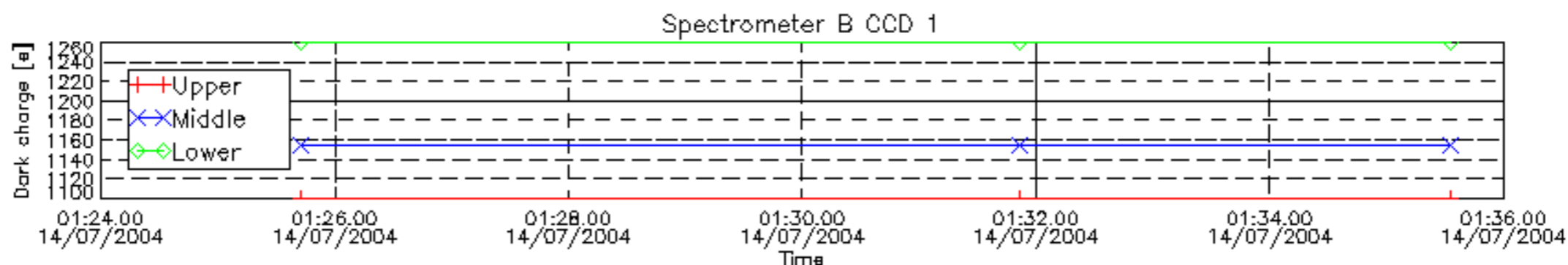
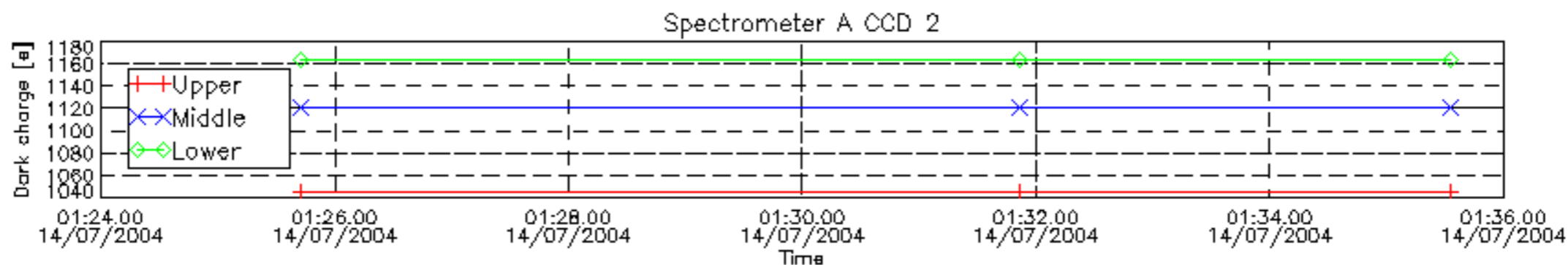
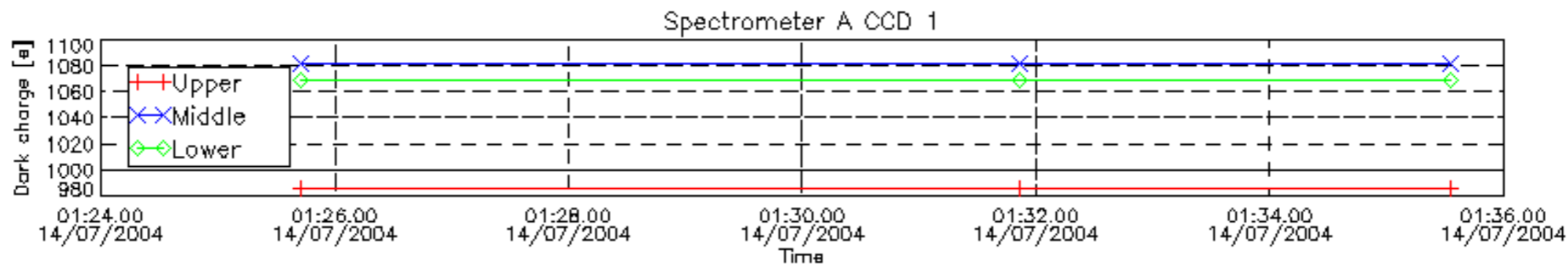


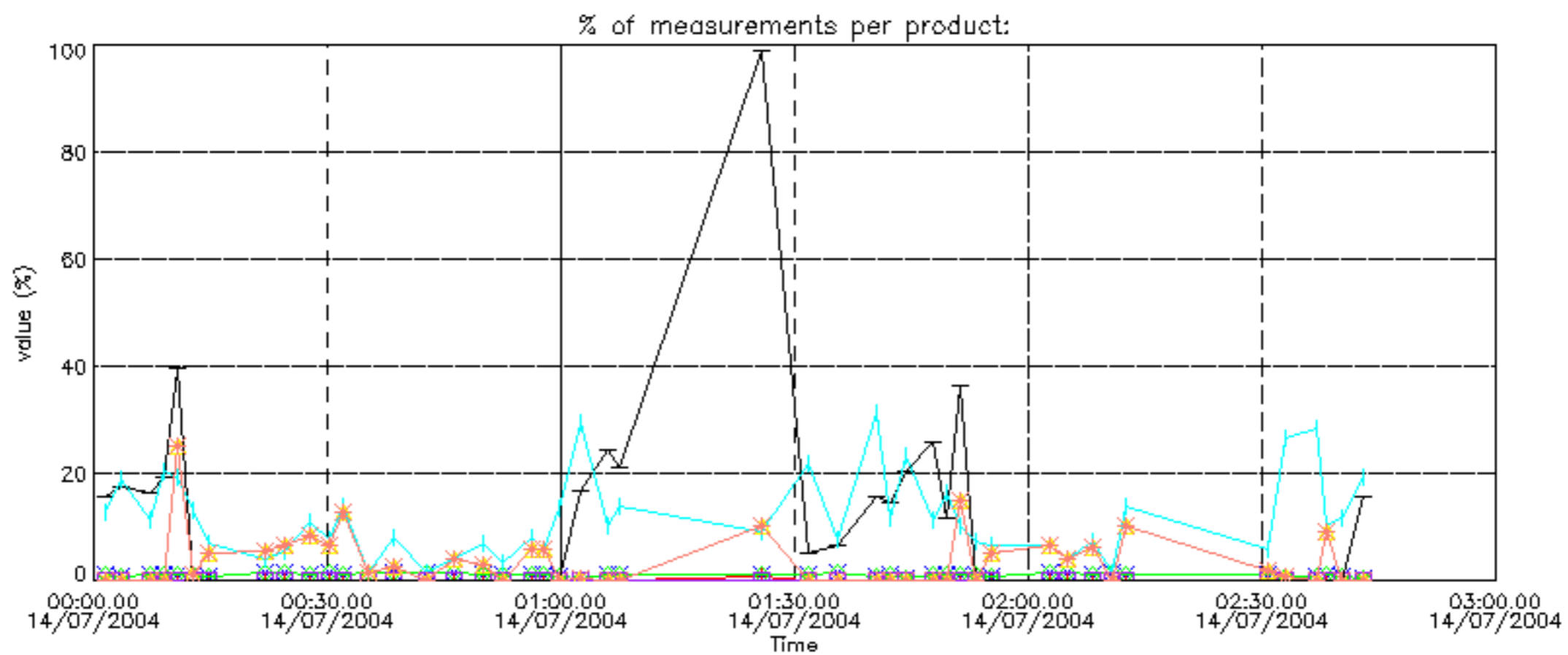
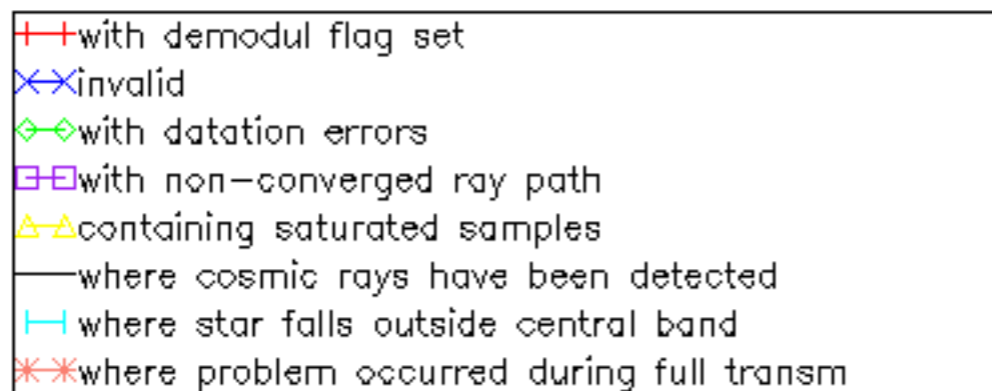
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

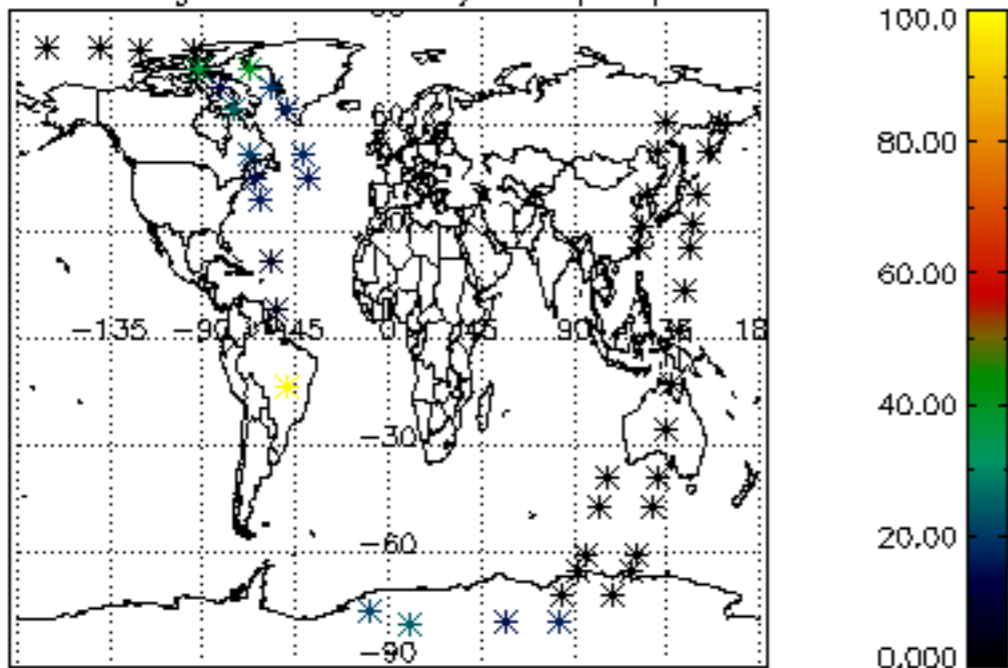
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.5	1445.9	1461.4	1447.2
St. deviation:	5.9321	7.0638	6.5546	7.2386
Maximum:	1497.0	1480.0	1507.0	1492.0
Minimum:	1439.0	1422.0	1446.0	1434.0
Number of data:	3600.0	3600.0	40750.	40750.



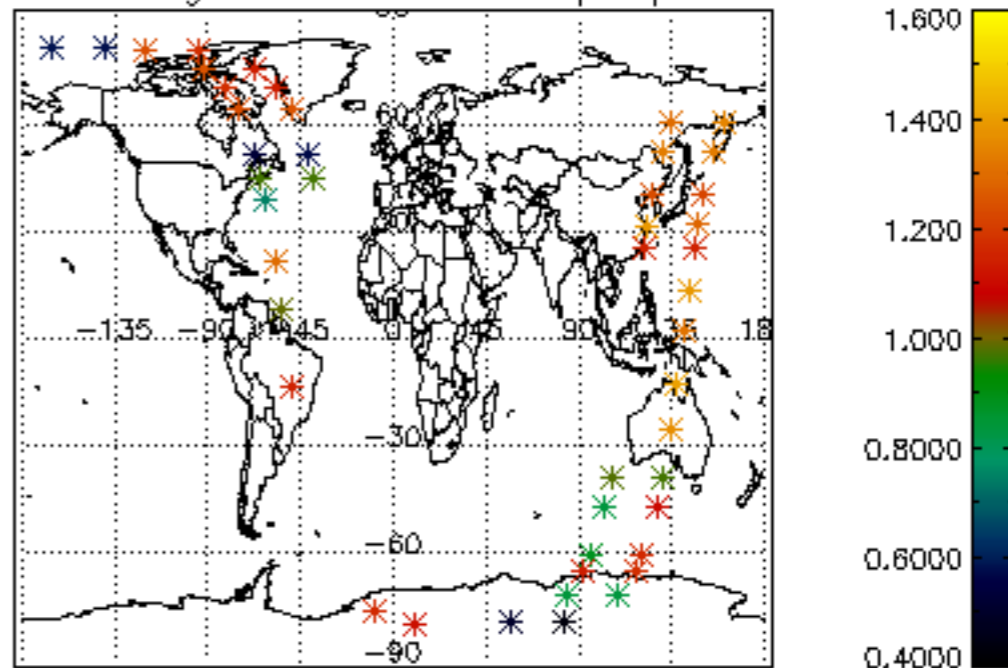




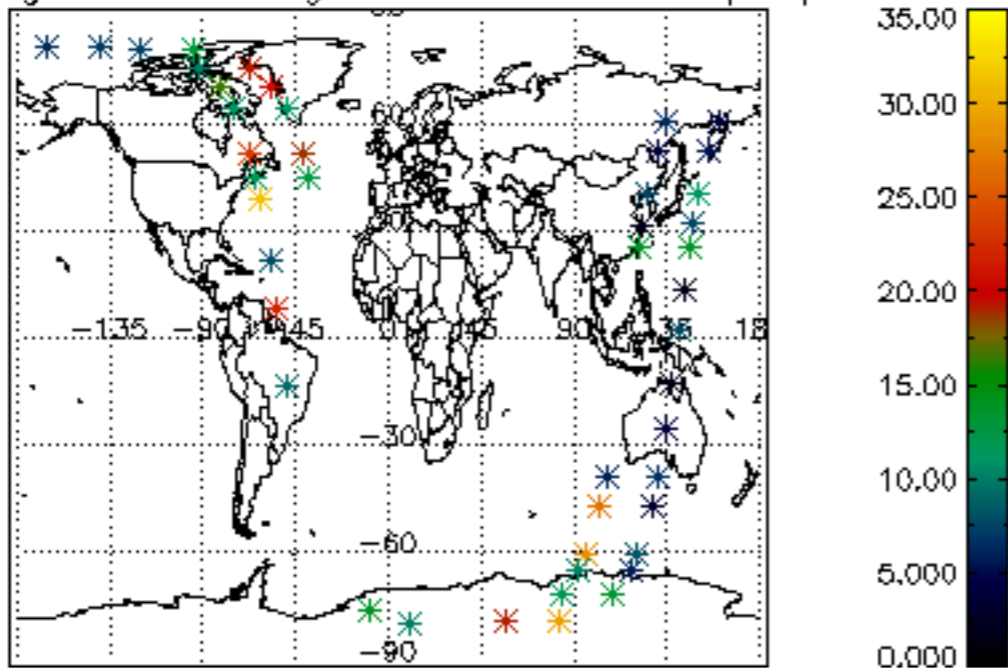
Percentage of cosmic ray hits per profile



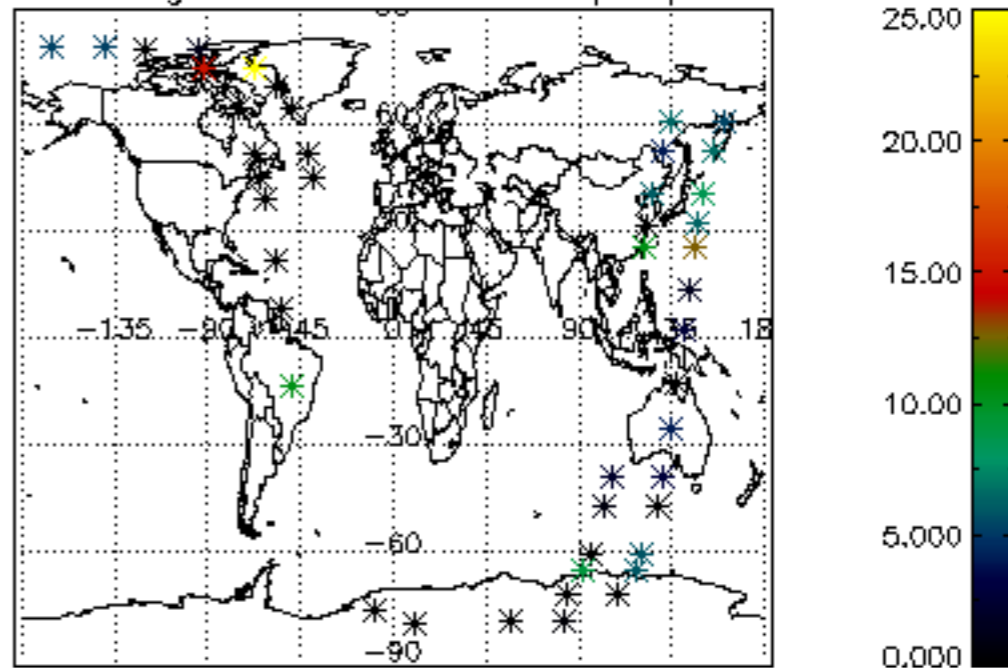
Percentage of datation errors per profile



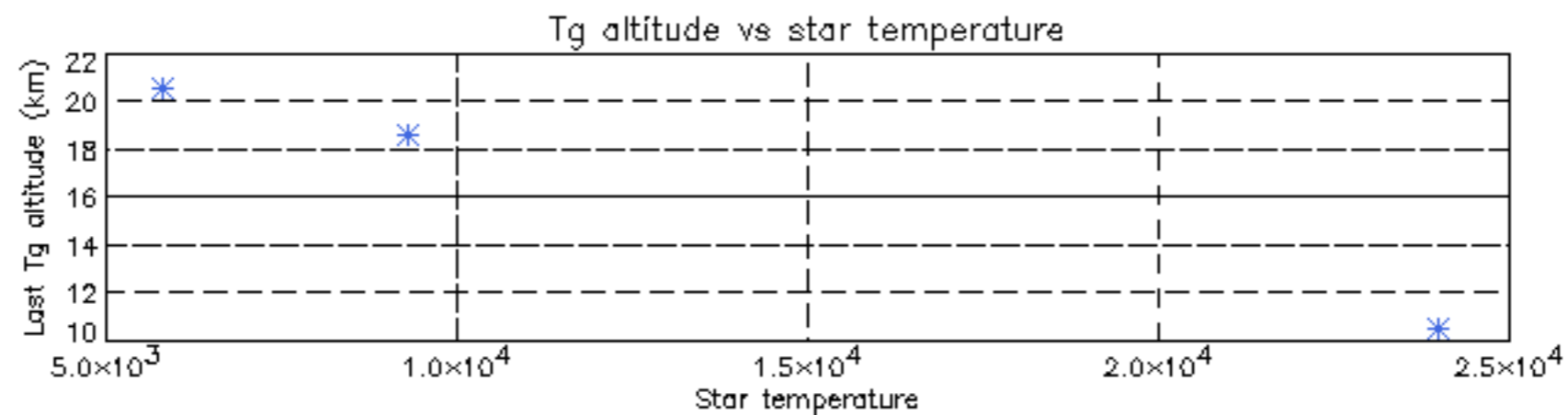
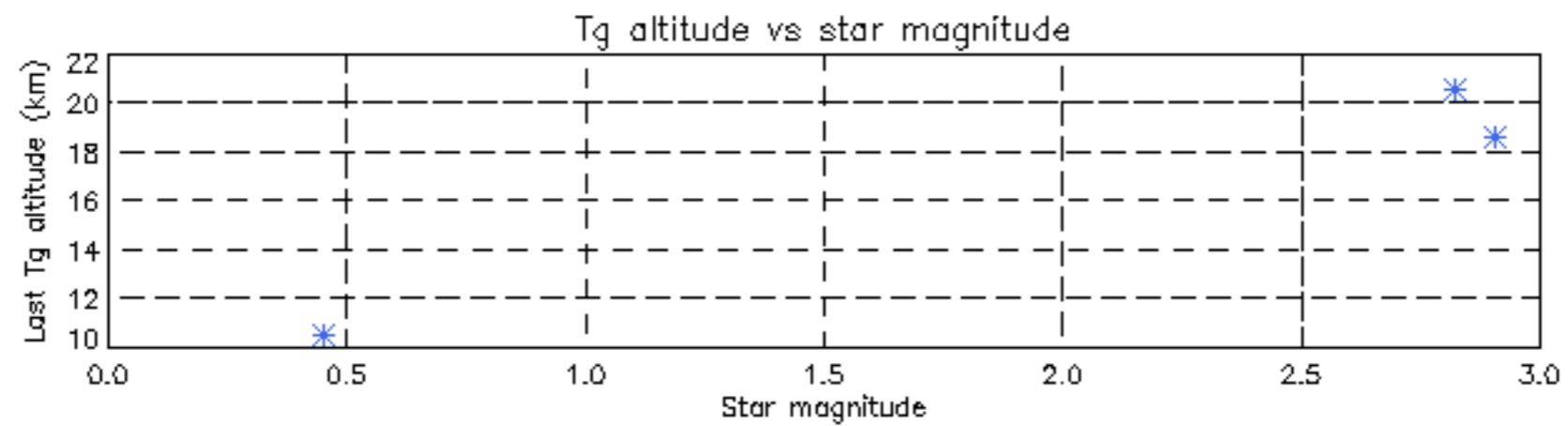
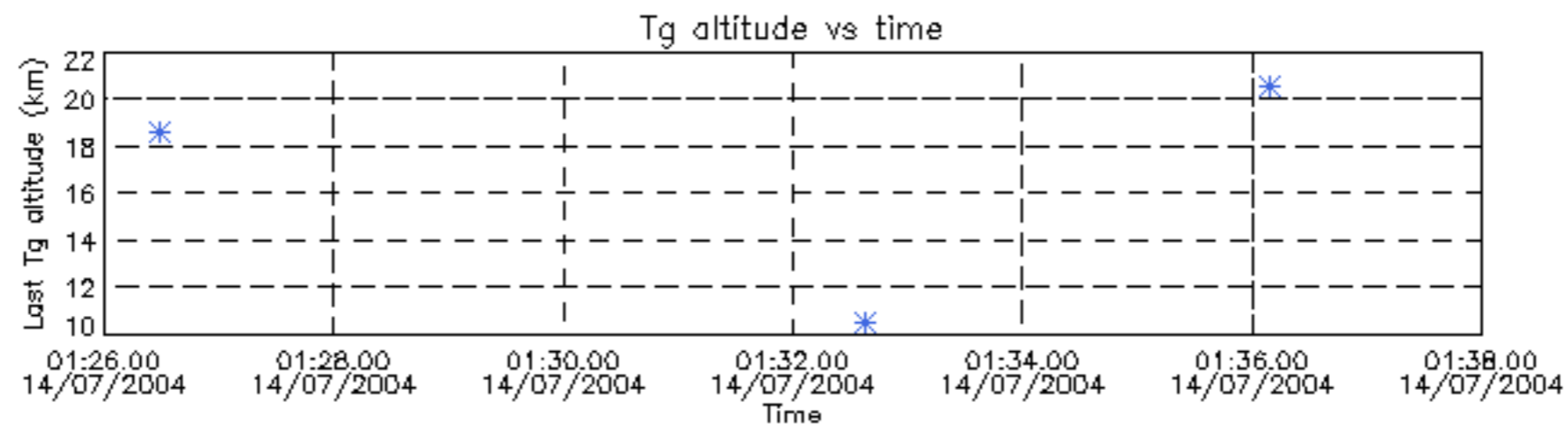
Percentage of star falling outside central band per profile



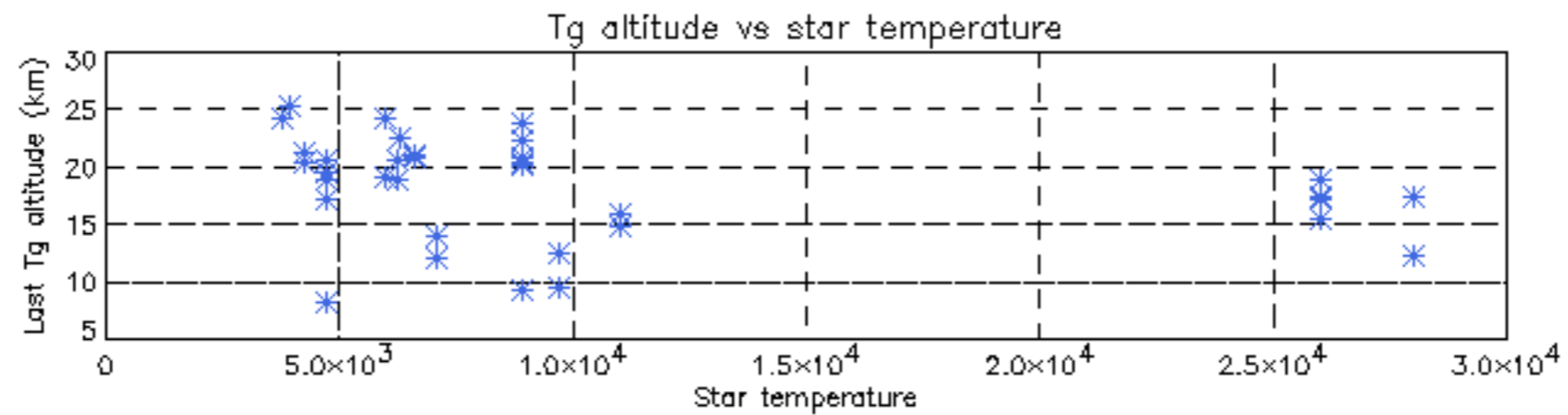
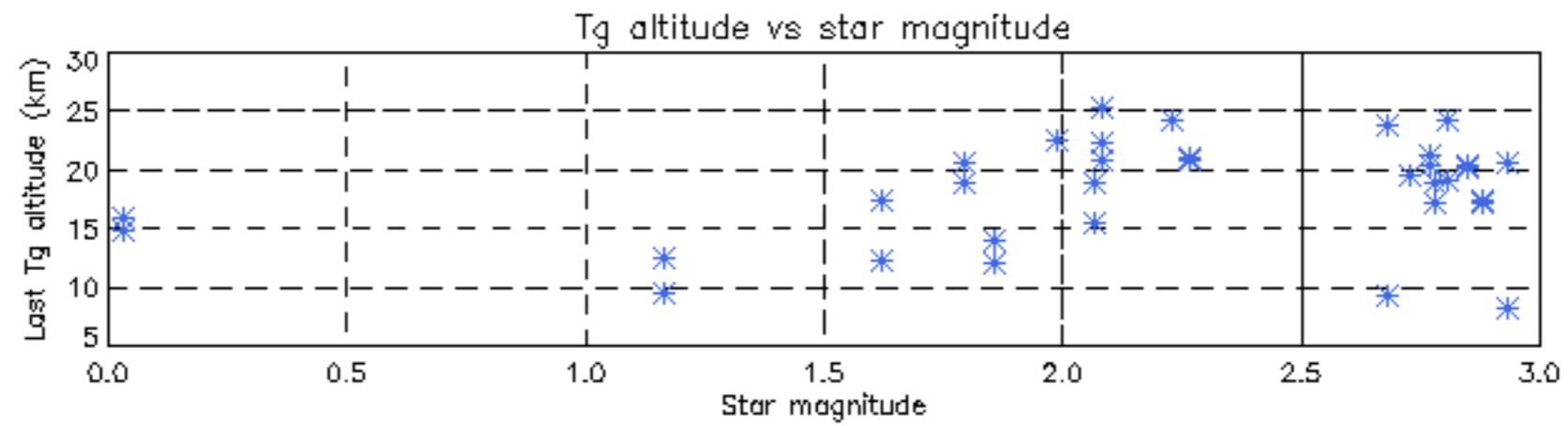
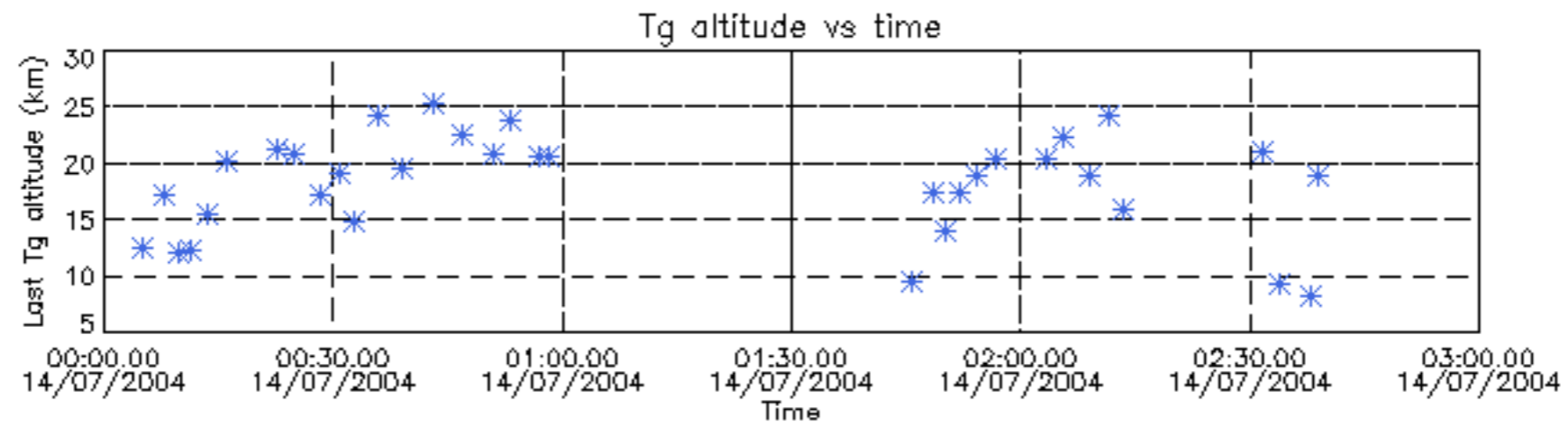
Percentage of saturation errors per profile



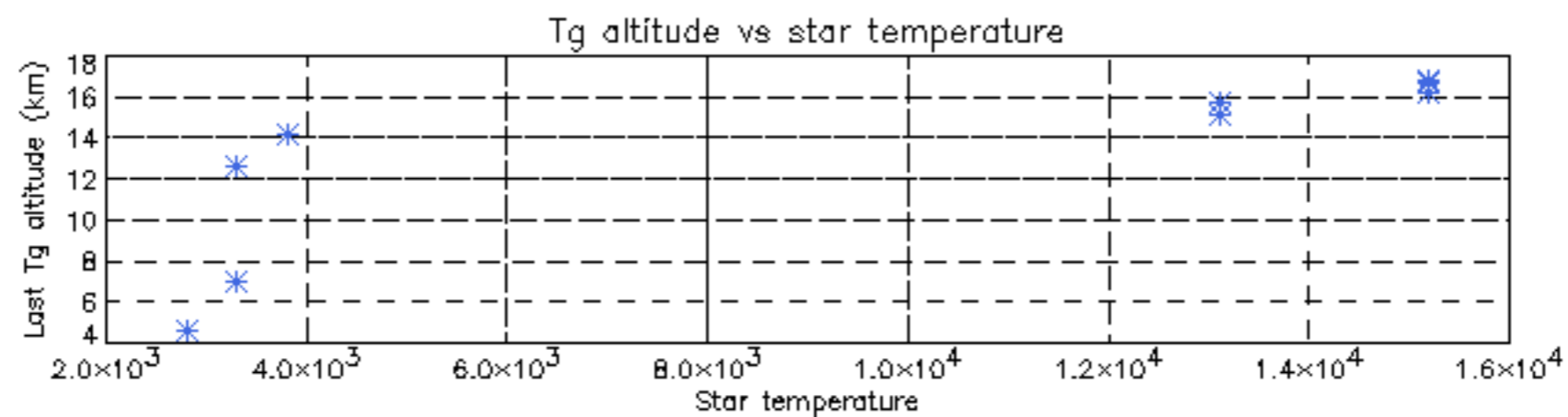
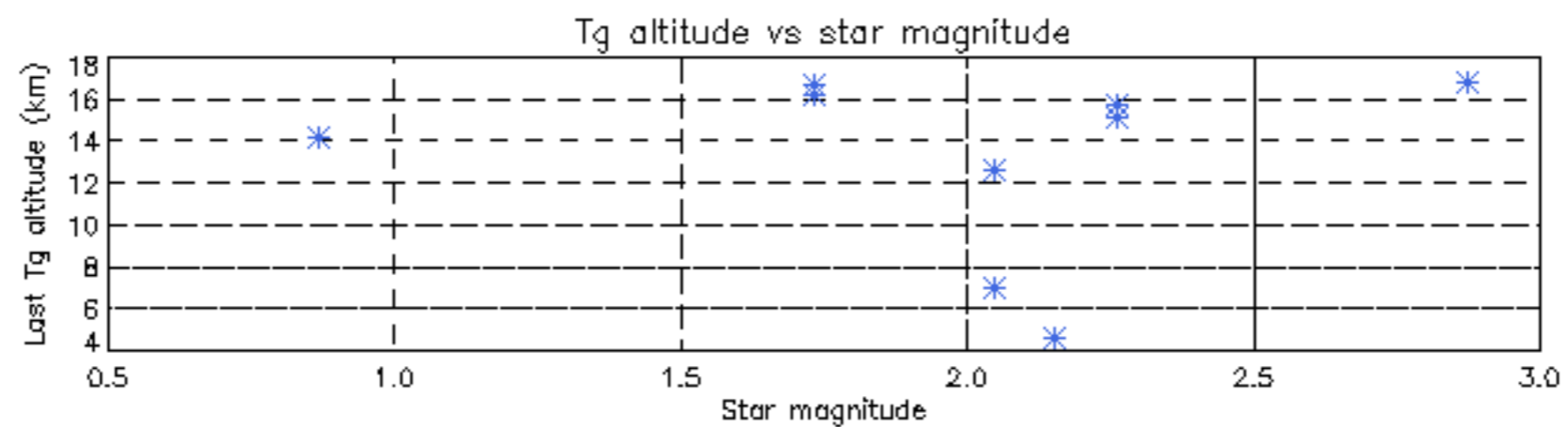
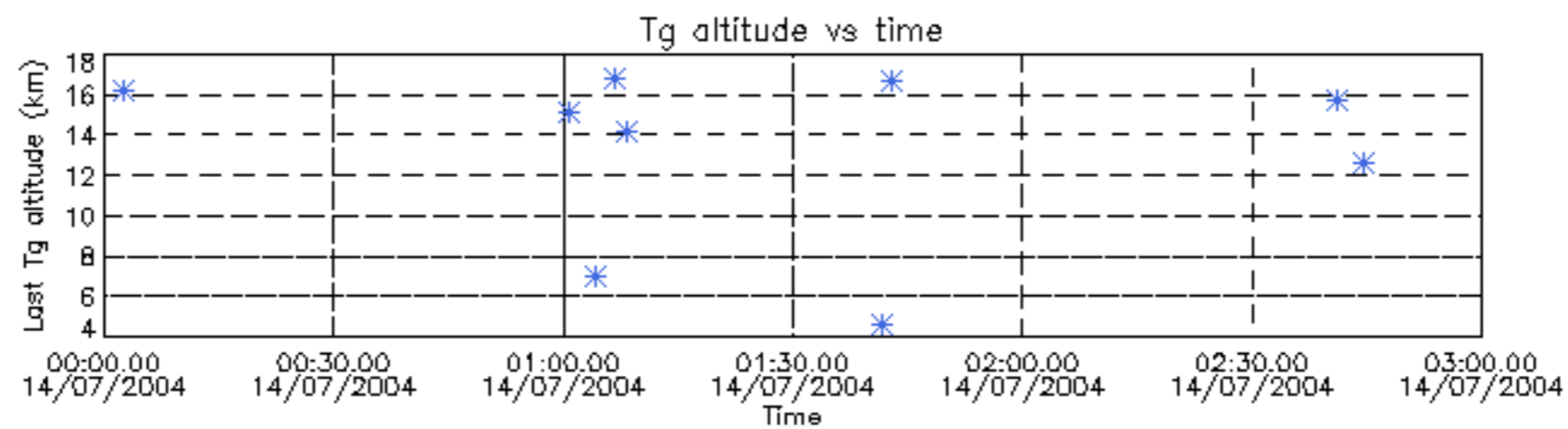
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1;	-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
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
20;	2281.8;	01-JUL-2004	02:16:09;	Bright;		37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	12210
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
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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
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15; 491.7; 01-JUL-2004 05:07:31; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;12212
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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
35; 3337.5; 01-JUL-2004 05:54:57; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;12212
36; 3443.7; 01-JUL-2004 05:56:43; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 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
14; 316.0; 01-JUL-2004 06:45:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;12213
15; 493.0; 01-JUL-2004 06:48:08; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;12213
16; 591.0; 01-JUL-2004 06:49:46; Dark ; 94.5; 18; 24Alp PsA ; 1.17; 9700;occ; 189; 0;12213
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
20; 1171.8; 01-JUL-2004 06:59:27; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;12213
21; 1271.1; 01-JUL-2004 07:01:06; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;12213
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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35; 978.9; 02-JUL-2004 18:08:49; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;12234

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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	
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
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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
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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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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	
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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	
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
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
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7; 751.4; 22-JUL-2004 02:30:56; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;12511
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3;	-2016.2;	22-JUL-2004	03:25:24;	Bright;	46.0;	160;	23Gam Per	;	2.93;	4700;occ;	92;	0;	12511	
4;	-1929.2;	22-JUL-2004	03:26:52;	Bright;	60.0;	35;	33Alp Per	;	1.79;	6250;occ;	120;	0;	12511	
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7;	-1389.1;	22-JUL-2004	03:35:52;	Dark	;	48.0;	146;	25Eta Tau	;	2.87;	15200;occ;	96;	0;	12511
8;	-1296.9;	22-JUL-2004	03:37:24;	Dark	;	57.0;	13;	87Alp Tau	;	0.87;	3800;occ;	114;	0;	12511
9;	-1168.7;	22-JUL-2004	03:39:32;	Dark	;	40.5;	27;	24Gam Ori	;	1.64;	26000;occ;	81;	0;	12511
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11;	-918.2;	22-JUL-2004	03:43:42;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	12511
12;	-777.9;	22-JUL-2004	03:46:03;	Dark	;	44.5;	101;	11Alp Lep	;	2.58;	7000;occ;	89;	0;	12511
13;	-513.4;	22-JUL-2004	03:50:27;	Dark	;	41.5;	108;	Alp Col	;	2.65;	15200;occ;	83;	0;	12511
14;	-385.5;	22-JUL-2004	03:52:35;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	12511
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26;	2009.5;	22-JUL-2004	04:32:30;	Bright;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	12512	
27;	2144.6;	22-JUL-2004	04:34:45;	Bright;	38.5;	168;	17Zet Aql	;	2.99;	11000;occ;	77;	0;	12512	
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29;	2733.3;	22-JUL-2004	04:44:34;	Bright;	40.0;	144;	18Del Cyg	;	2.86;	11000;occ;	80;	0;	12512	
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30;	2995.7;	22-JUL-2004	06:29:32;	Bright;	38.5;	119;	14Eta Dra	;	2.73;	4700;occ;	77;	0;	12513	
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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33; 683.2; 26-JUL-2004 13:48:07; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;12575
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