

GOMOS Daily Report 15-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	22JUL2004 09:16:38
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-6D (15JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-6D (16JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	57
Nb of prods with errors	2

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

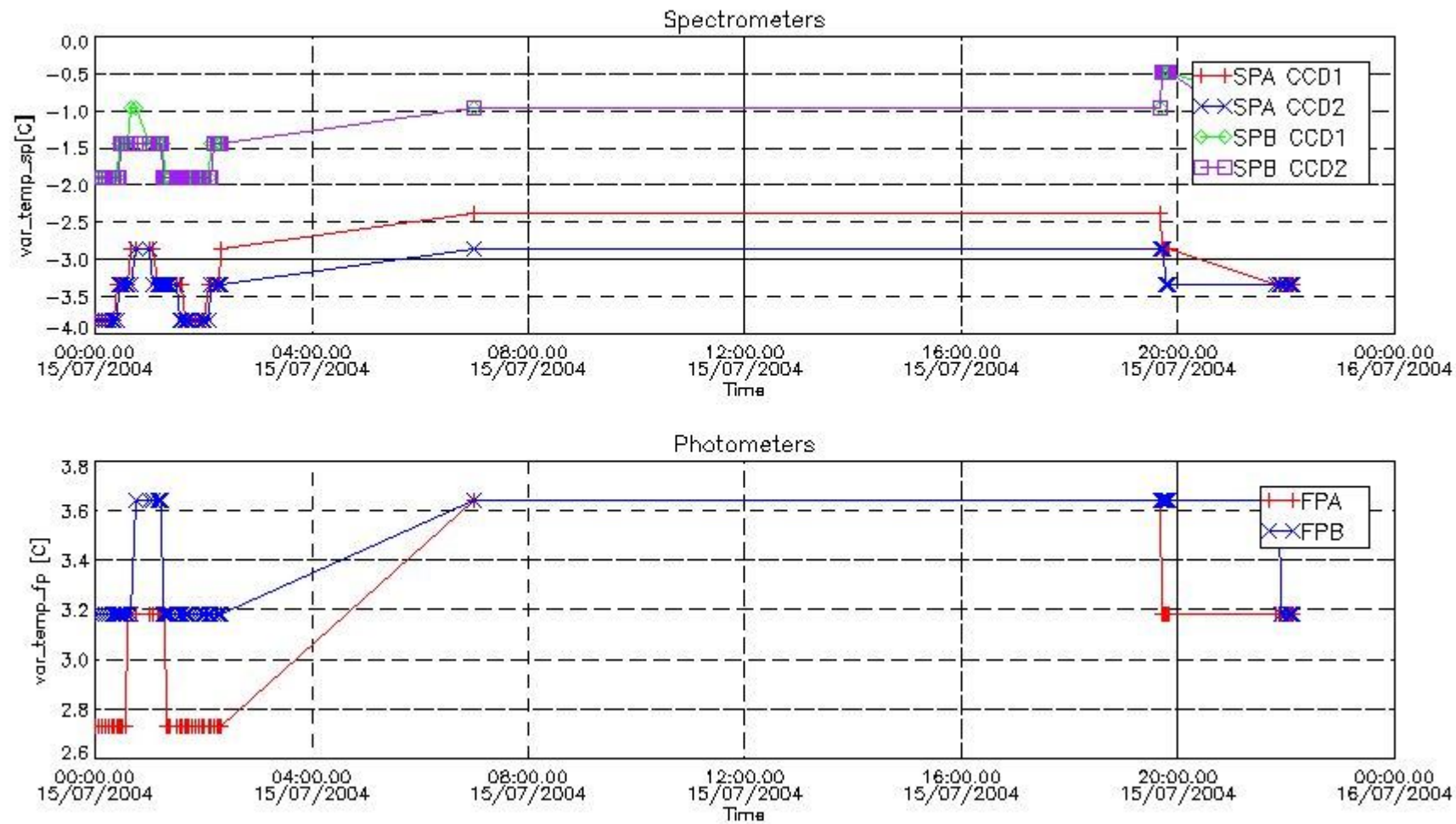
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20040715_000022_000000372028_00331_12409_0016.N1	15-JUL-2004 00:00:22	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	12409	No
GOM_TRA_1PNPDE20040715_000342_000000372028_00331_12409_0017.N1	15-JUL-2004 00:03:42	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	12409	No
GOM_TRA_1PNPDE20040715_000653_000000382028_00331_12409_0018.N1	15-JUL-2004 00:06:53	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	12409	No
GOM_TRA_1PNPDE20040715_001106_000000352028_00331_12409_0019.N1	15-JUL-2004 00:11:06	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	12409	No
GOM_TRA_1PNPDE20040715_001442_000000352028_00331_12409_0020.N1	15-JUL-2004 00:14:42	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	12409	No
GOM_TRA_1PNPDE20040715_001818_000000542028_00331_12409_0021.N1	15-JUL-2004 00:18:18	Bright	53.500	74	11Bet Cas	2.2680	6600.0	107	12409	No
GOM_TRA_1PNPDE20040715_002039_000000472028_00331_12409_0022.N1	15-JUL-2004 00:20:39	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	12409	No
GOM_TRA_1PNPDE20040715_002439_000000422028_00331_12409_0023.N1	15-JUL-2004 00:24:39	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	12409	No
GOM_TRA_1PNPDE20040715_002559_000000452028_00331_12409_0024.N1	15-JUL-2004 00:25:59	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	12409	No
GOM_TRA_1PNPDE20040715_002759_000000632028_00331_12409_0025.N1	15-JUL-2004 00:27:59	Twilight	62.500	73	57Gam1And	2.2600	13100.	125	12409	No
GOM_TRA_1PNPDE20040715_003050_000001112028_00331_12409_0026.N1	15-JUL-2004 00:30:50	Twilight	110.50	53	43Bet And	2.0480	3300.0	221	12409	No
GOM_TRA_1PNPDE20040715_003420_000000442028_00331_12409_0027.N1	15-JUL-2004 00:34:20	Twilight	44.000	146	25Eta Tau	2.8730	15200.	88	12409	No
GOM_TRA_1PNPDE20040715_003554_000000452028_00331_12409_0028.N1	15-JUL-2004 00:35:54	Twilight	45.000	13	87Alp Tau	0.86700	3800.0	90	12409	No
GOM_TRA_1PNPDE20040715_003851_000000922028_00331_12409_0029.N1	15-JUL-2004 00:38:51	Dark	92.000	105	6Bet Ari	2.6450	8900.0	184	12409	No
GOM_TRA_1PNPDE20040715_004442_000000402028_00331_12409_0000.N1	15-JUL-2004 00:44:42	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	12409	No
GOM_TRA_1PNPDE20040715_010024_000000492028_00332_12410_0001.N1	15-JUL-2004 01:00:24	Dark	49.000	9	Alp Eri	0.45300	24000.	98	12410	No
GOM_TRA_1PNPDE20040715_010359_000000402028_00332_12410_0002.N1	15-JUL-2004 01:03:59	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12410	No
GOM_TRA_1PNPDE20040715_010907_000000662028_00332_12410_0003.N1	15-JUL-2004 01:09:07	Twilight	65.500	63	Bet Gru	2.1500	2800.0	131	12410	No
GOM_TRA_1PNPDE20040715_011043_000000502028_00332_12410_0004.N1	15-JUL-2004 01:10:43	Twilight	49.500	31	Alp Gru	1.7340	15200.	99	12410	No
GOM_TRA_1PNPDE20040715_011253_000000972028_00332_12410_0005.N1	15-JUL-2004 01:12:53	Bright	96.500	18	24Alp PsA	1.1660	9700.0	193	12410	No
GOM_TRA_1PNPDE20040715_011608_000000402028_00332_12410_0006.N1	15-JUL-2004 01:16:08	Bright	39.500	147	Alp Ara	2.8770	26000.	79	12410	No
GOM_TRA_1PNPDE20040715_011801_000000412028_00332_12410_0007.N1	15-JUL-2004 01:18:01	Bright	41.000	40	The Sco	1.8590	7100.0	82	12410	No
GOM_TRA_1PNPDE20040715_011954_000000442028_00332_12410_0008.N1	15-JUL-2004 01:19:54	Bright	44.000	38	20Eps Sgr	1.8360	11000.	88	12410	No
GOM_TRA_1PNPDE20040715_012145_000000482028_00332_12410_0009.N1	15-JUL-2004 01:21:45	Bright	48.000	57	34Sig Sgr	2.0660	26000.	96	12410	No
GOM_TRA_1PNPDE20040715_012344_000000832028_00332_12410_0010.N1	15-JUL-2004 01:23:44	Bright	82.500	142	49Del Cap	2.8500	8900.0	165	12410	No
GOM_TRA_1PNPDE20040715_013107_000000392028_00332_12410_0011.N1	15-JUL-2004 01:31:07	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12410	No
GOM_TRA_1PNPDE20040715_013325_000000392028_00332_12410_0012.N1	15-JUL-2004 01:33:25	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	12410	No
GOM_TRA_1PNPDE20040715_013648_000000402028_00332_12410_0013.N1	15-JUL-2004 01:36:48	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12410	No
GOM_TRA_1PNPDE20040715_013918_000000402028_00332_12410_0014.N1	15-JUL-2004 01:39:18	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	12410	No
GOM_TRA_1PNPDE20040715_014057_000000442028_00332_12410_0015.N1	15-JUL-2004 01:40:57	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	12410	No
GOM_TRA_1PNPDE20040715_014417_000000362028_00332_12410_0016.N1	15-JUL-2004 01:44:17	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	12410	No
GOM_TRA_1PNPDE20040715_014728_000000392028_00332_12410_0017.N1	15-JUL-2004 01:47:28	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	12410	No
GOM_TRA_1PNPDE20040715_015142_000000372028_00332_12410_0018.N1	15-JUL-2004 01:51:42	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	12410	No
GOM_TRA_1PNPDE20040715_015517_000000382028_00332_12410_0019.N1	15-JUL-2004 01:55:17	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12410	No
GOM_TRA_1PNPDE20040715_015855_000000492028_00332_12410_0020.N1	15-JUL-2004 01:58:55	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	12410	No
GOM_TRA_1PNPDE20040715_020116_000000492028_00332_12410_0021.N1	15-JUL-2004 02:01:16	Bright	48.500	110	37Del Cas	2.6780	8900.0	97	12410	No
GOM_TRA_1PNPDE20040715_020515_000000432028_00332_12410_0022.N1	15-JUL-2004 02:05:15	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	12410	No
GOM_TRA_1PNPDE20040715_020635_000000432028_00332_12410_0023.N1	15-JUL-2004 02:06:35	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	12410	No
GOM_TRA_1PNPDE20040715_020835_000000672028_00332_12410_0024.N1	15-JUL-2004 02:08:35	Twilight	67.000	73	57Gam1And	2.2600	13100.	134	12410	No
GOM_TRA_1PNPDE20040715_021126_000001102028_00332_12410_0025.N1	15-JUL-2004 02:11:26	Twilight	109.50	53	43Bet And	2.0480	3300.0	219	12410	No
GOM_TRA_1PNPDE20040715_021456_000000482028_00332_12410_0026.N1	15-JUL-2004 02:14:56	Twilight	47.500	146	25Eta Tau	2.8730	15200.	95	12410	No
GOM_TRA_1PNPDE20040715_021631_000000412028_00332_12410_0027.N1	15-JUL-2004 02:16:31	Twilight	40.500	13	87Alp Tau	0.86700	3800.0	81	12410	No
GOM_TRA_1PNPDE20040715_021927_000000902028_00332_12410_0028.N1	15-JUL-2004 02:19:27	Dark	89.500	105	6Bet Ari	2.6450	8900.0	179	12410	No
GOM_TRA_1PNPDE20040715_070040_000000132028_00335_12413_0000.N1	15-JUL-2004 07:00:40	Twilight	13.000	74	11Bet Cas	2.2680	6600.0	26	12413	Yes
GOM_TRA_1PNPDE20040715_193942_000000882028_00343_12421_0000.N1	15-JUL-2004 19:39:42	Bright	87.500	18	24Alp PsA	1.1660	9700.0	175	12421	Yes
GOM_TRA_1PNPDE20040715_194245_000000422028_00343_12421_0001.N1	15-JUL-2004 19:42:45	Bright	41.500	147	Alp Ara	2.8770	26000.	83	12421	No
GOM_TRA_1PNPDE20040715_194438_000000442028_00343_12421_0002.N1	15-JUL-2004 19:44:38	Bright	44.000	40	The Sco	1.8590	7100.0	88	12421	No
GOM_TRA_1PNPDE20040715_194631_000000432028_00343_12421_0003.N1	15-JUL-2004 19:46:31	Bright	42.500	38	20Eps Sgr	1.8360	11000.	85	12421	No
GOM_TRA_1PNPDE20040715_194826_000000402028_00343_12421_0004.N1	15-JUL-2004 19:48:26	Bright	40.000	57	34Sig Sgr	2.0660	26000.	80	12421	No

GOM_TRA_1PNPDE20040715_195020_000000812028_00343_12421_0005.N1	15-JUL-2004 19:50:20	Bright	81.000	142	49Del Cap	2.8500	8900.0	162	12421	No
GOM_TRA_1PNPDE20040715_214806_000000402028_00344_12422_0017.N1	15-JUL-2004 21:48:06	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	12422	No
GOM_TRA_1PNPDE20040715_215128_000000392028_00344_12422_0018.N1	15-JUL-2004 21:51:28	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	12422	No
GOM_TRA_1PNPDE20040715_215442_000000402028_00344_12422_0019.N1	15-JUL-2004 21:54:42	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12422	No
GOM_TRA_1PNPDE20040715_215855_000000362028_00344_12422_0020.N1	15-JUL-2004 21:58:55	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12422	No
GOM_TRA_1PNPDE20040715_220229_000000382028_00344_12422_0021.N1	15-JUL-2004 22:02:29	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12422	No
GOM_TRA_1PNPDE20040715_220557_000000532028_00344_12422_0022.N1	15-JUL-2004 22:05:57	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	12422	No
GOM_TRA_1PNPDE20040715_220754_000000542028_00344_12422_0023.N1	15-JUL-2004 22:07:54	Bright	53.500	68	18Alp Cas	2.2250	4500.0	107	12422	No

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



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

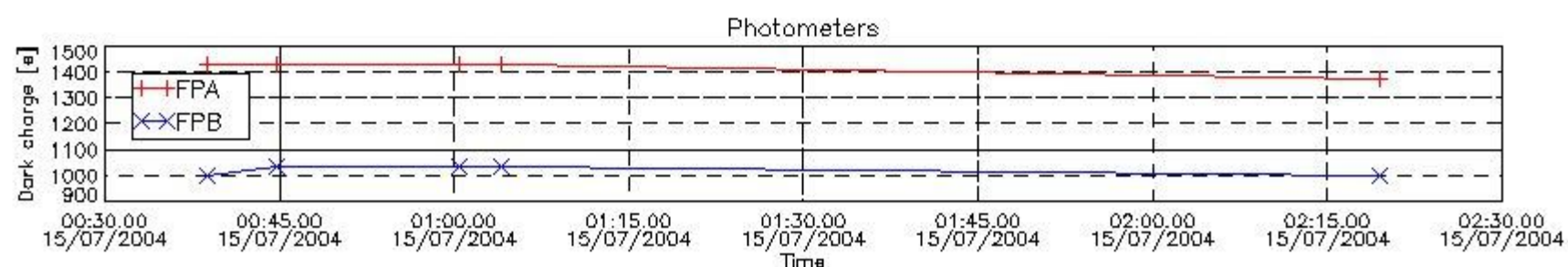
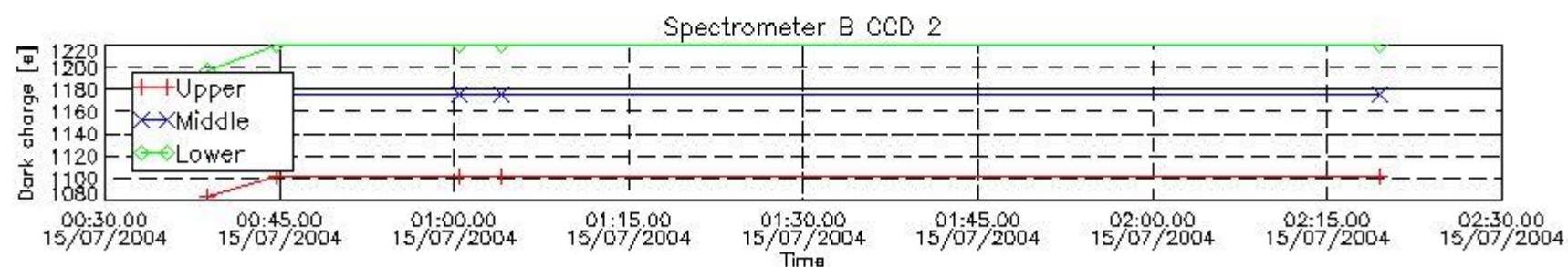
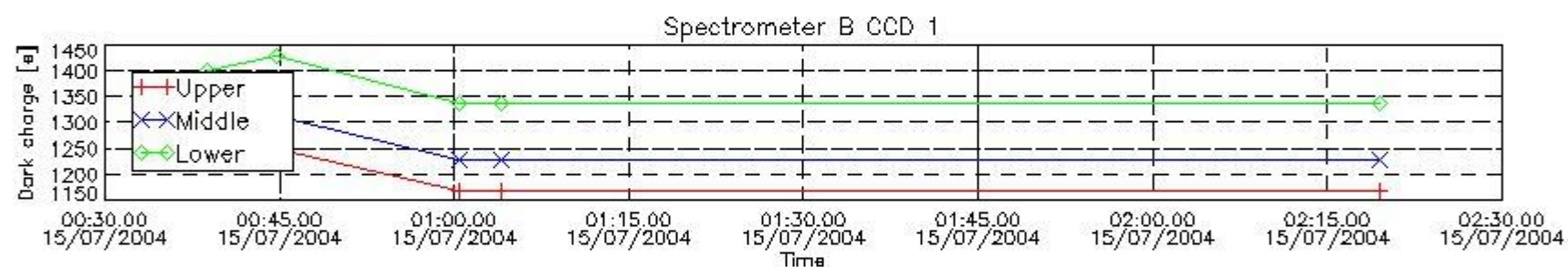
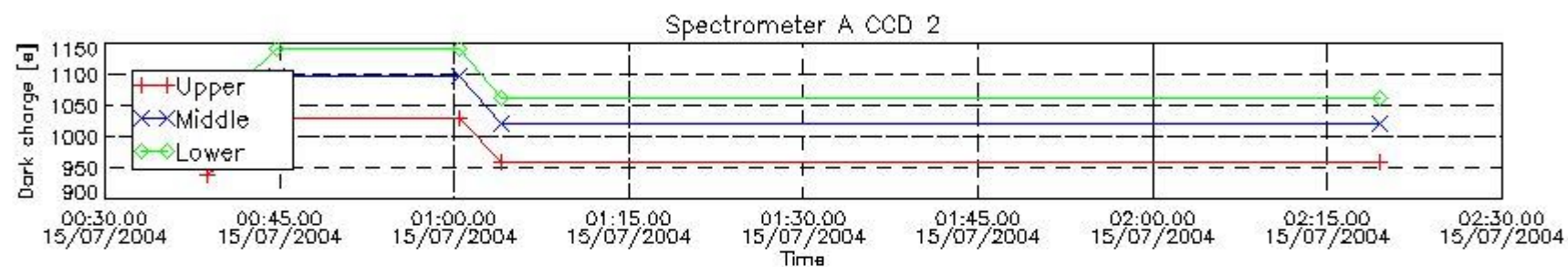
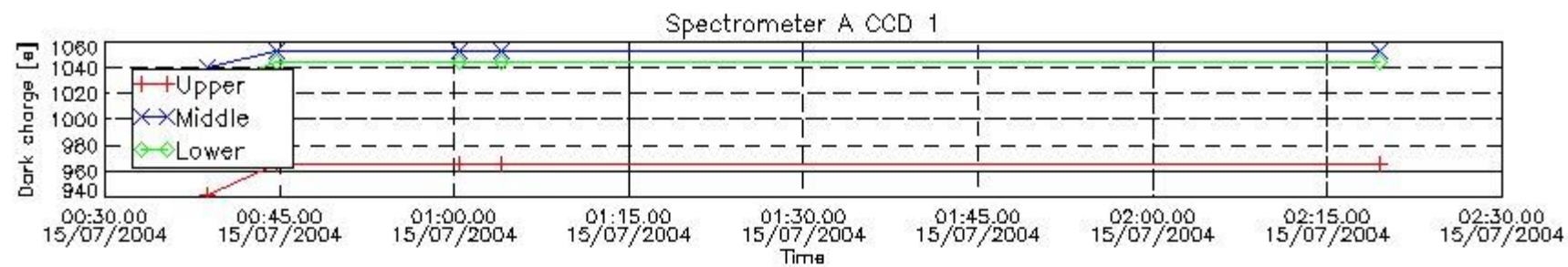
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20040715_070040_000000132028_00335_12413_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040715_193942_000000882028_00343_12421_0000.N1	DC map with no T dep. (12)

GOM_TRA_1PNPDE20040715_194245_000000422028_00343_12421_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040715_194438_000000442028_00343_12421_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040715_194631_000000432028_00343_12421_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040715_194826_000000402028_00343_12421_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040715_195020_000000812028_00343_12421_0005.N1	DC map used (0)

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



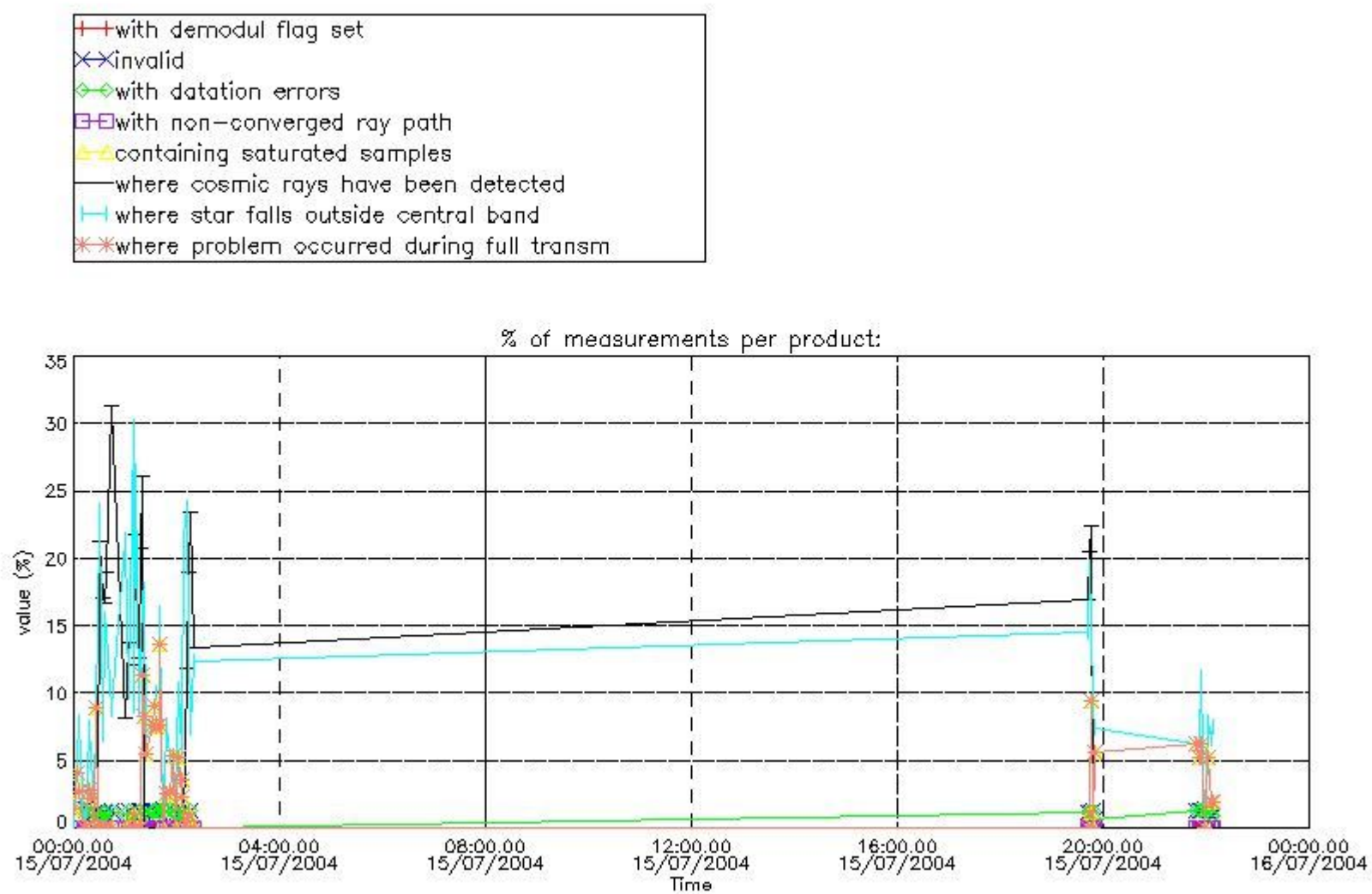
5. Demodulation flag and quality information monitoring

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:

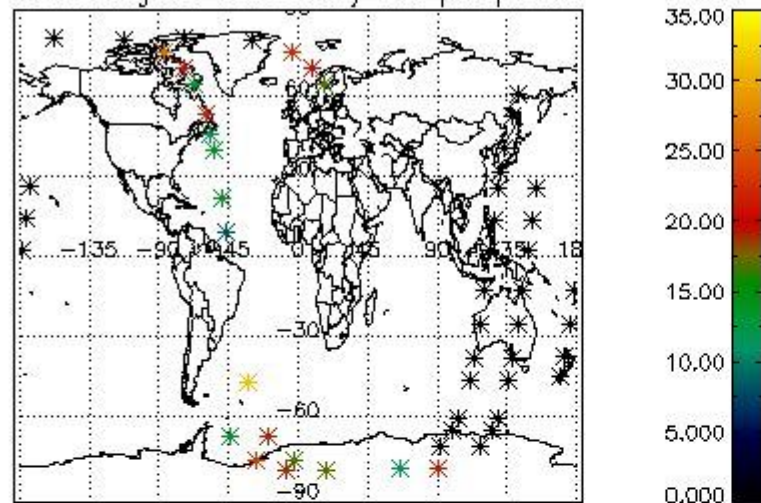
At least one measurement with demodulation flag set:	5.45455 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

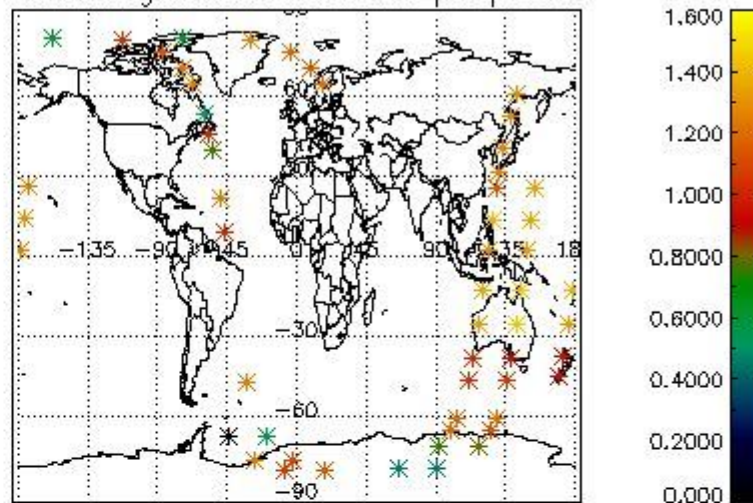


5.3 Plot quality information per product (world map)

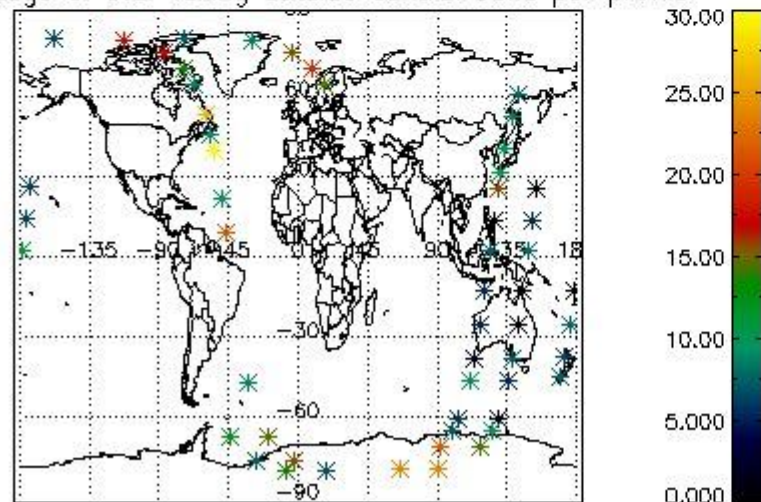
Percentage of cosmic ray hits per profile



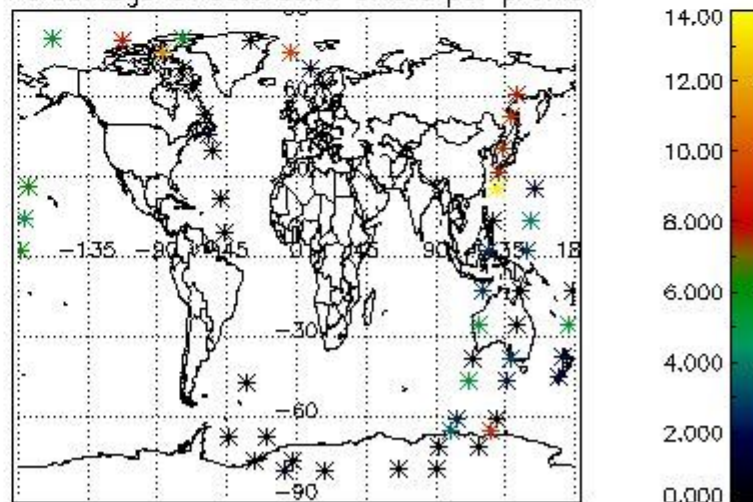
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



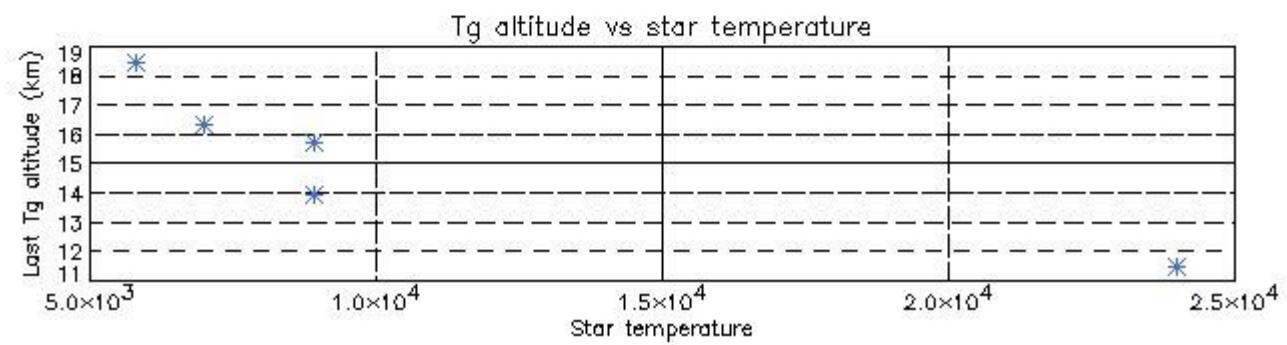
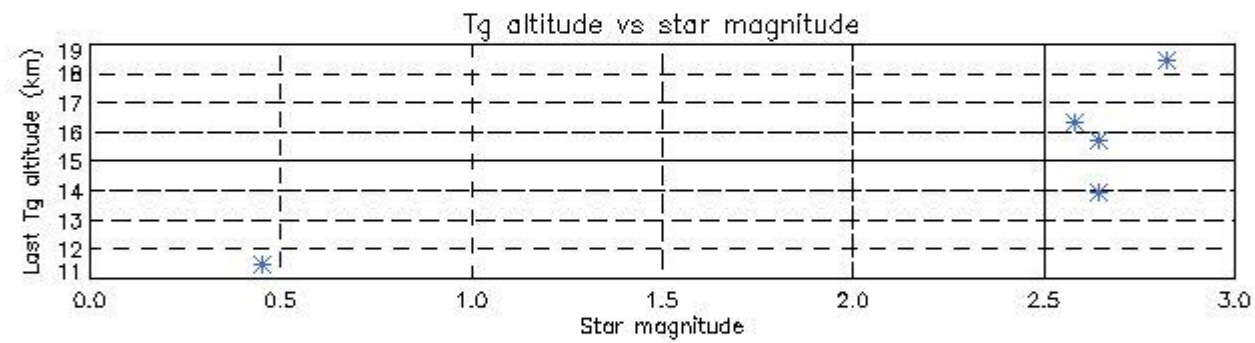
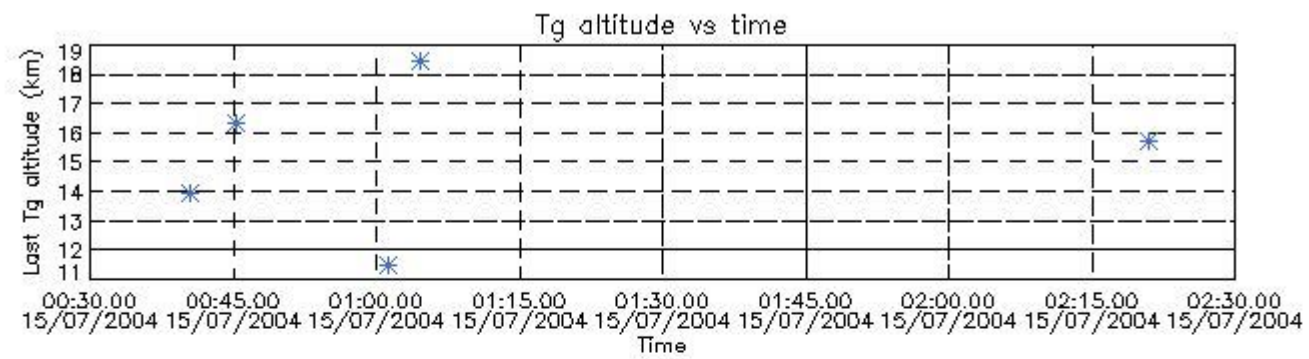
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.183	19.582	13.149
St. deviation:	2.6170	4.2463	4.2815
Maximum:	18.453	27.326	18.717
Minimum:	11.502	7.8278	5.5984
Number of data:	5.0000	40.000	10.000

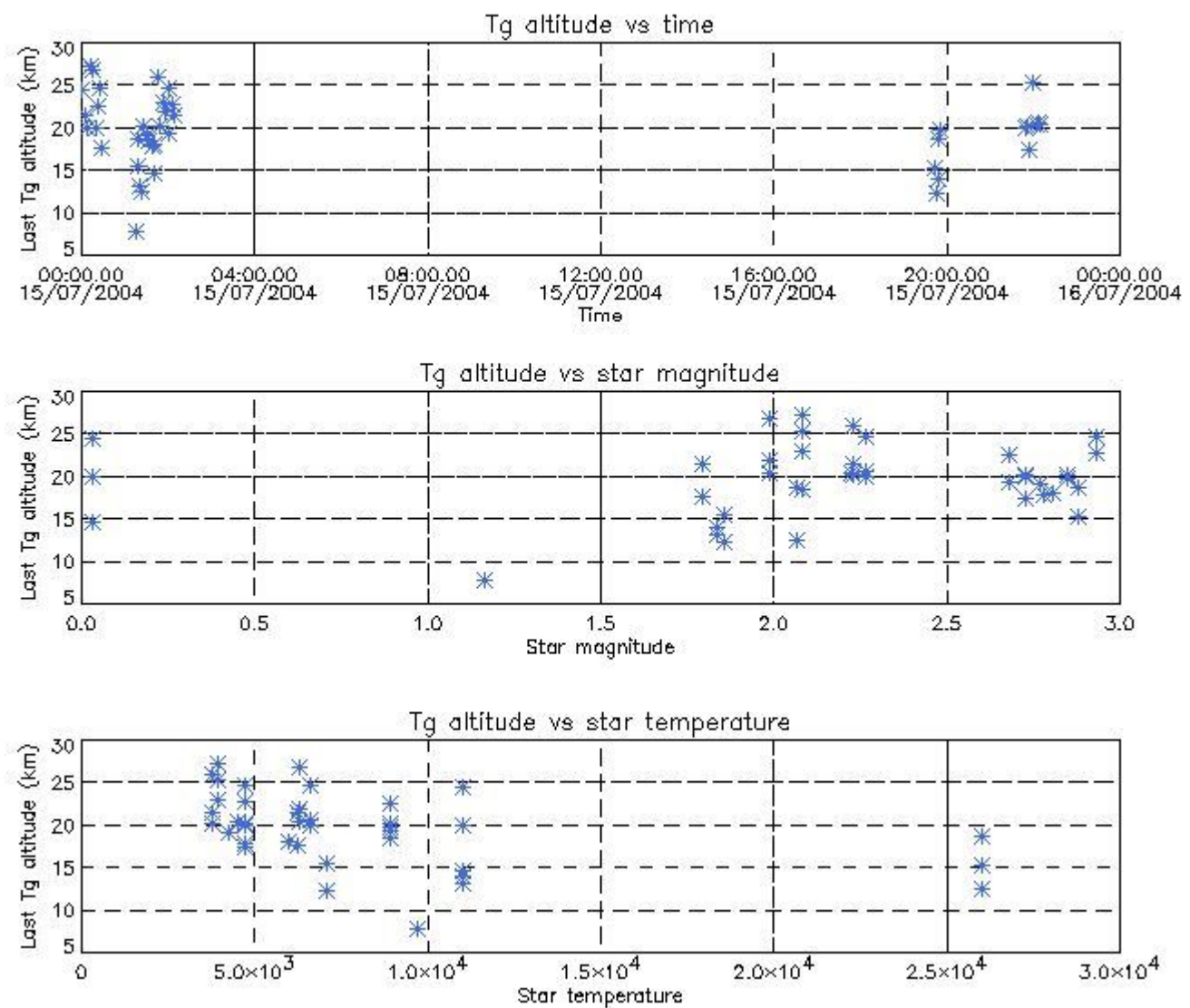
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



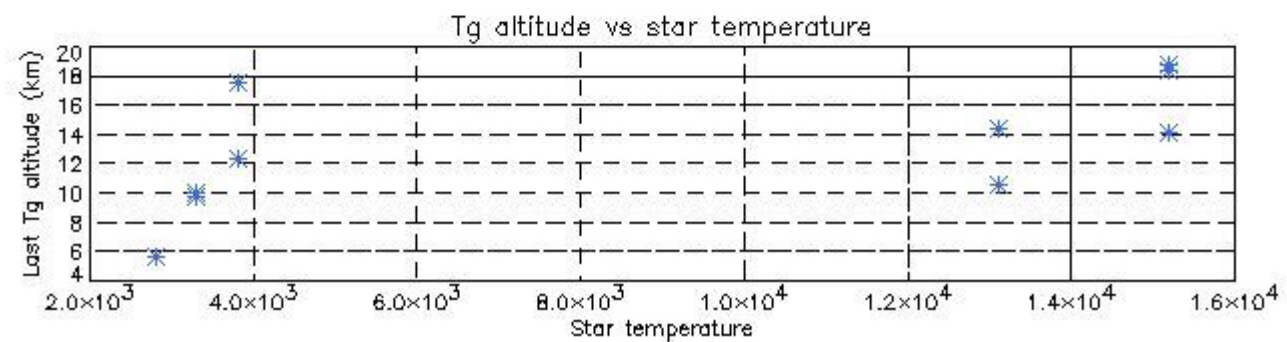
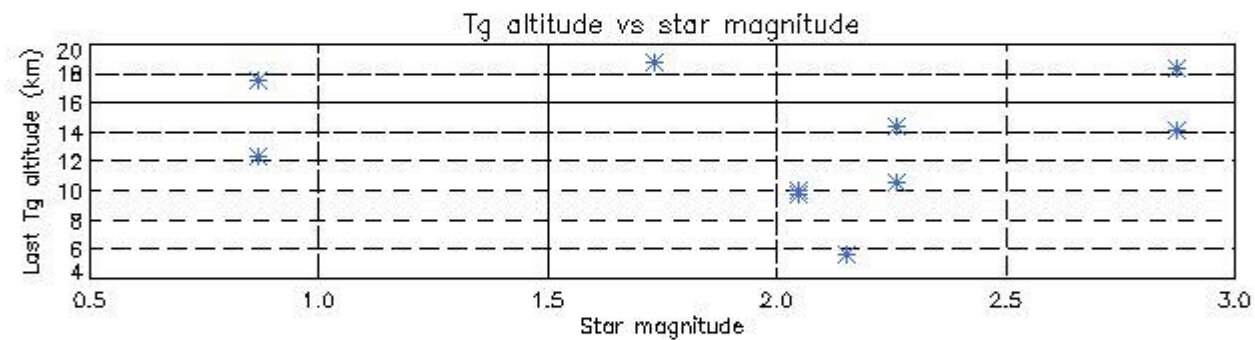
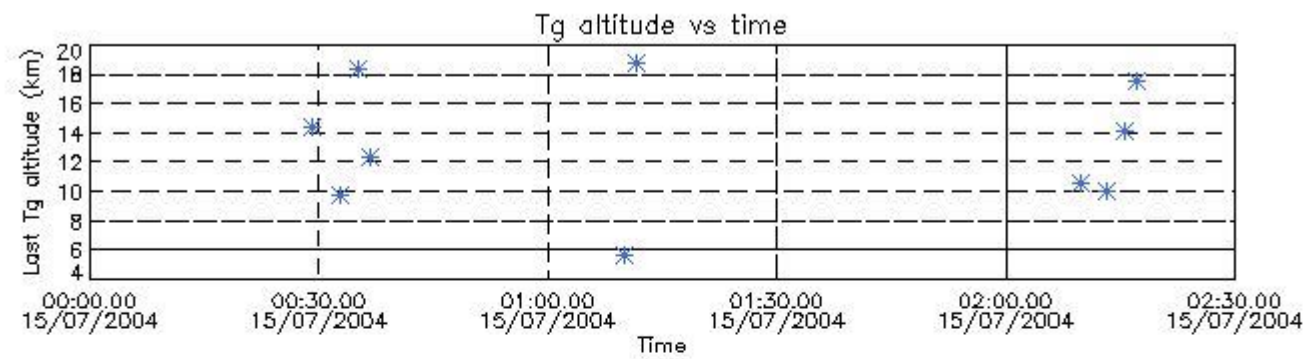
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

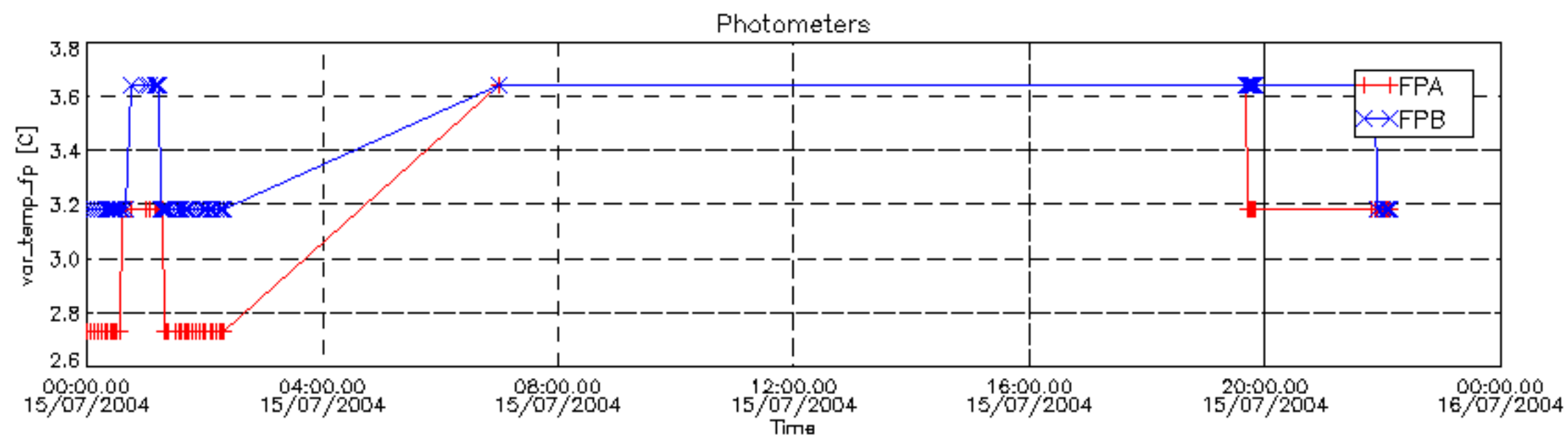
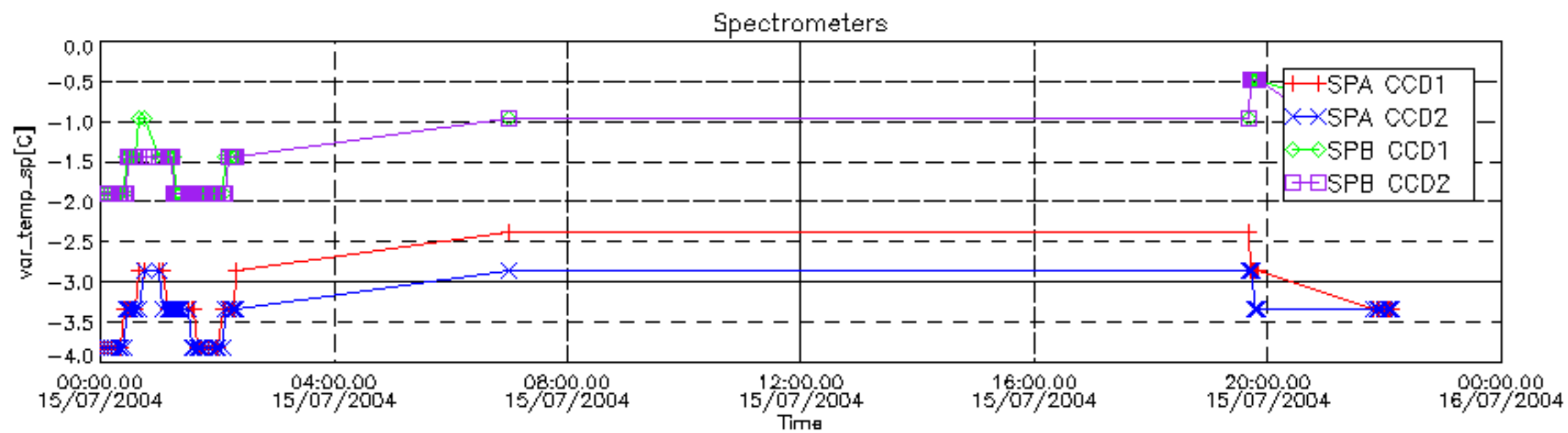


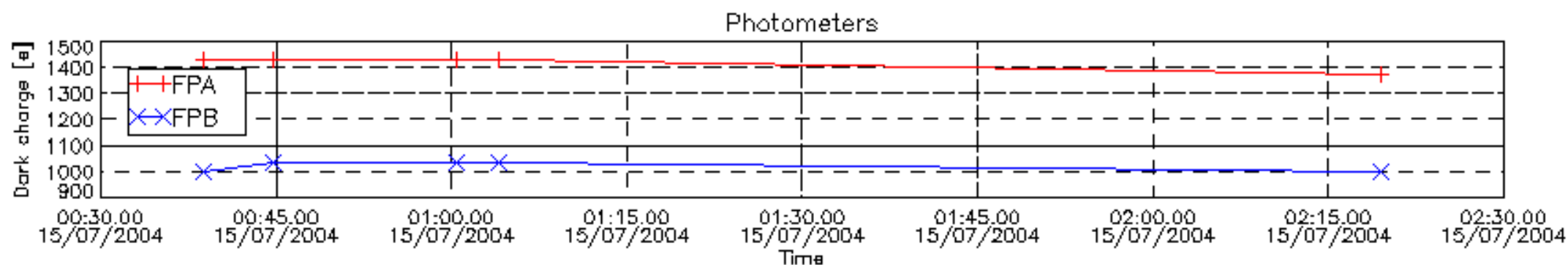
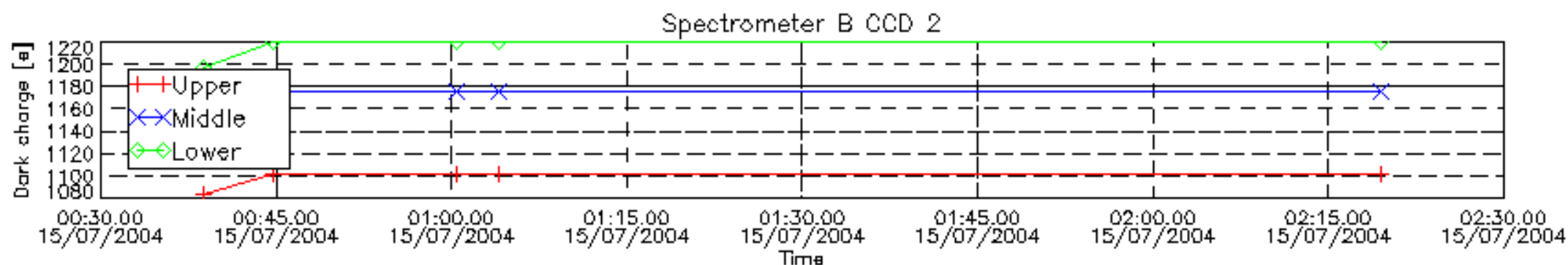
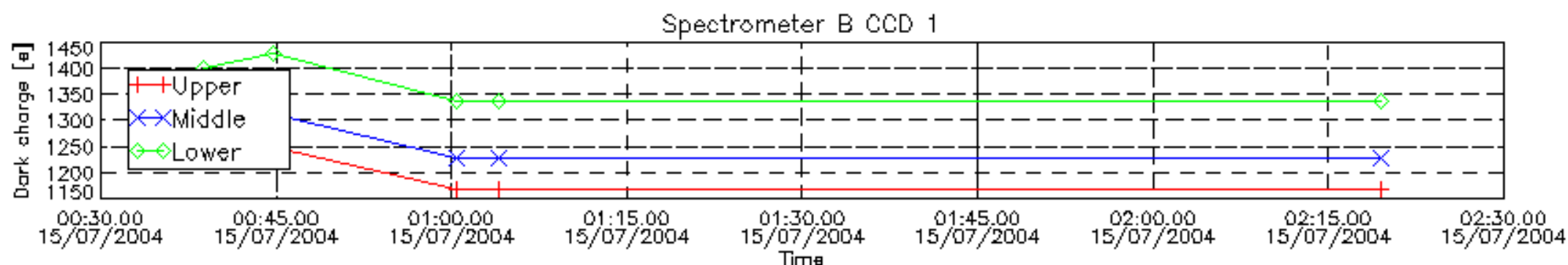
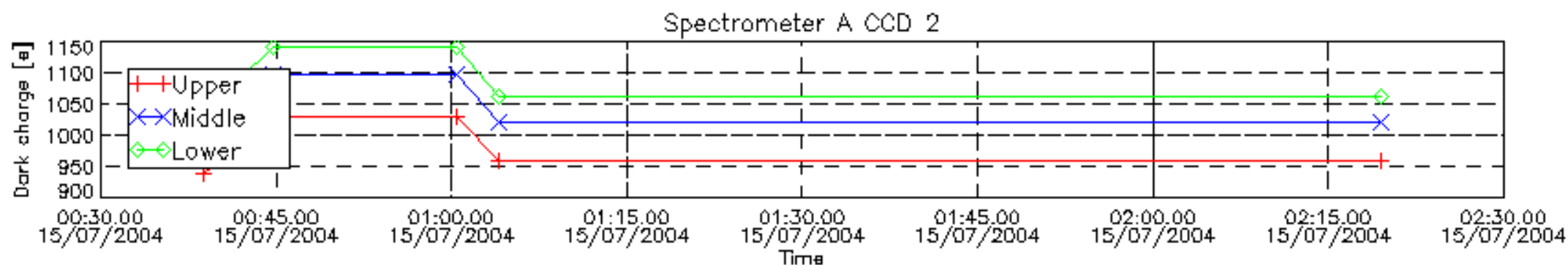
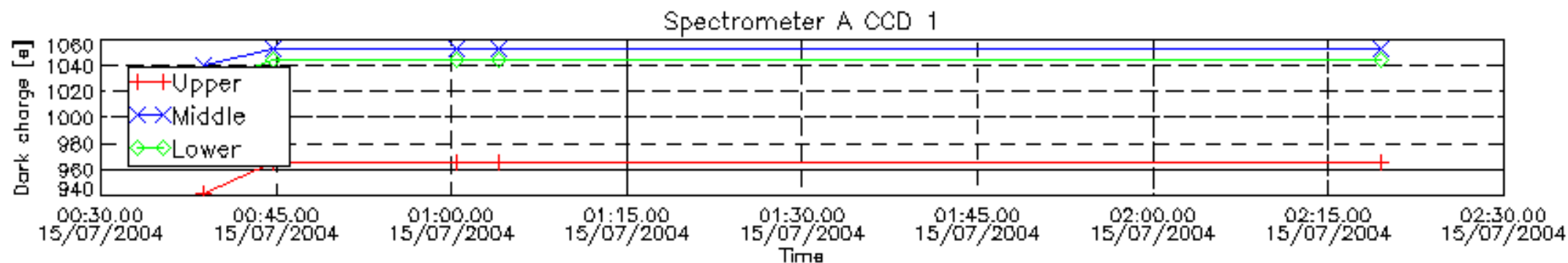
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

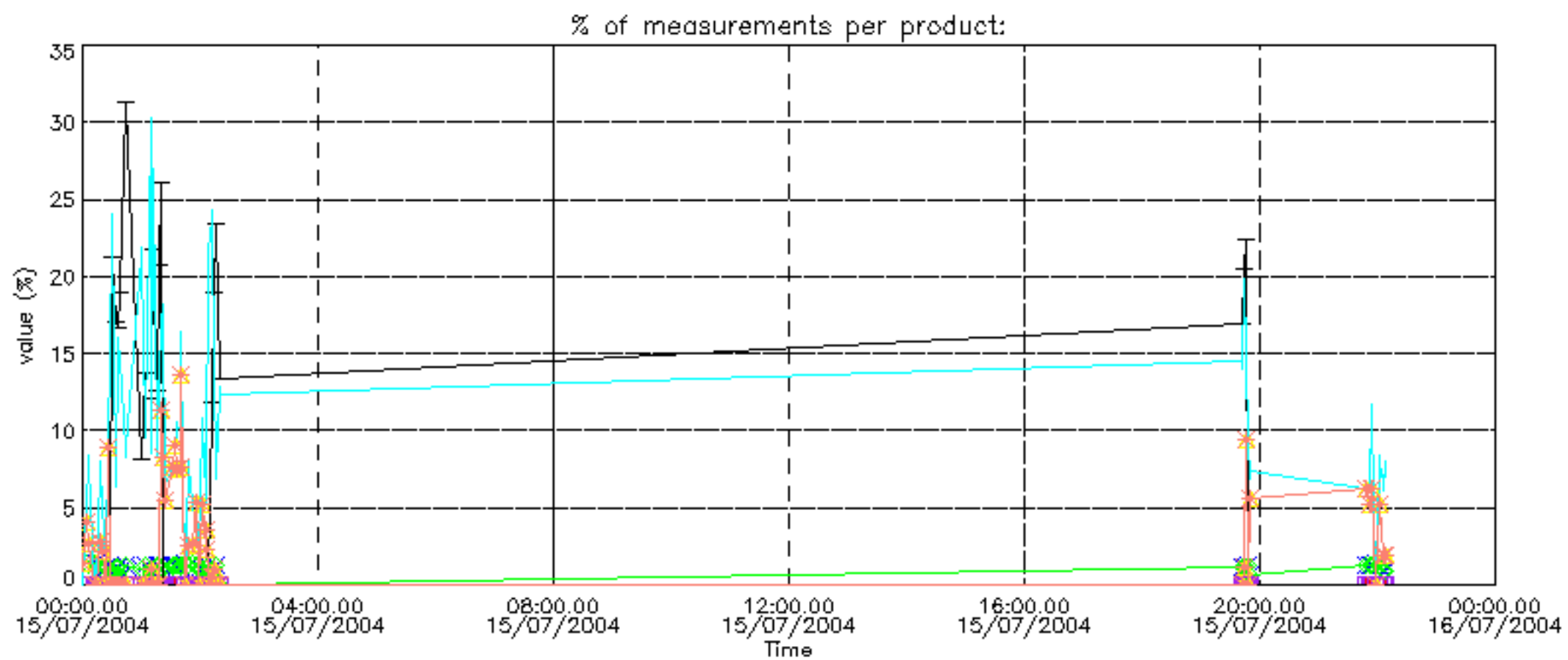
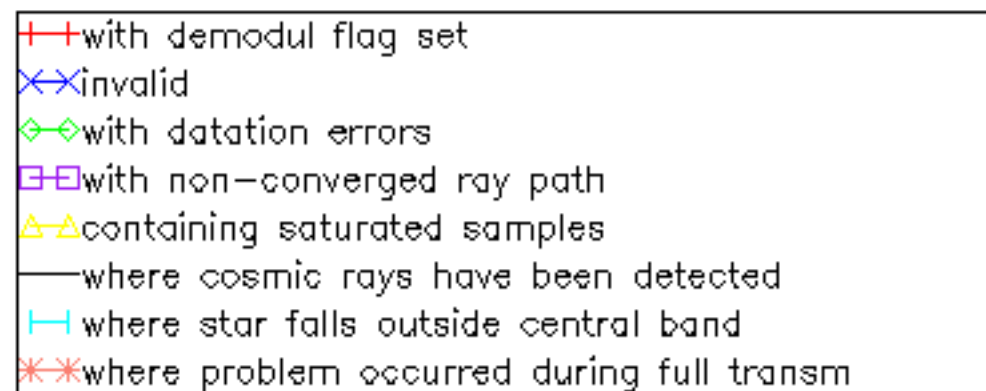
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.5	1449.2	1461.3	1447.3
St. deviation:	6.1786	6.9606	5.9046	6.8186
Maximum:	1491.0	1479.0	1507.0	1488.0
Minimum:	1437.0	1430.0	1446.0	1435.0
Number of data:	7600.0	7600.0	46500.	46500.

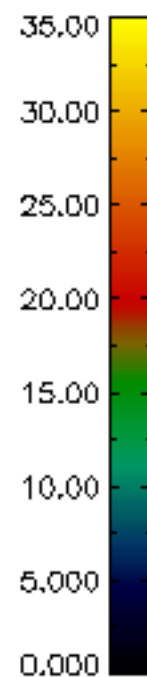
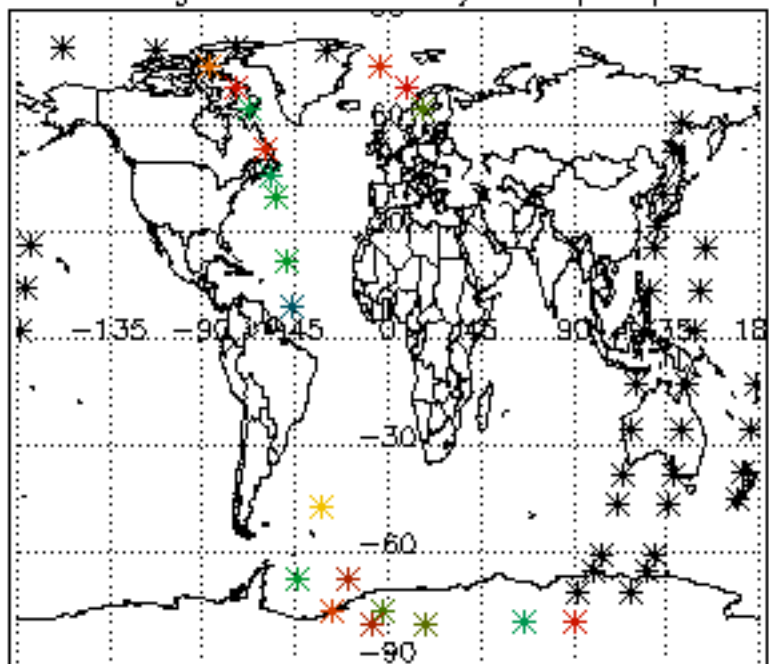




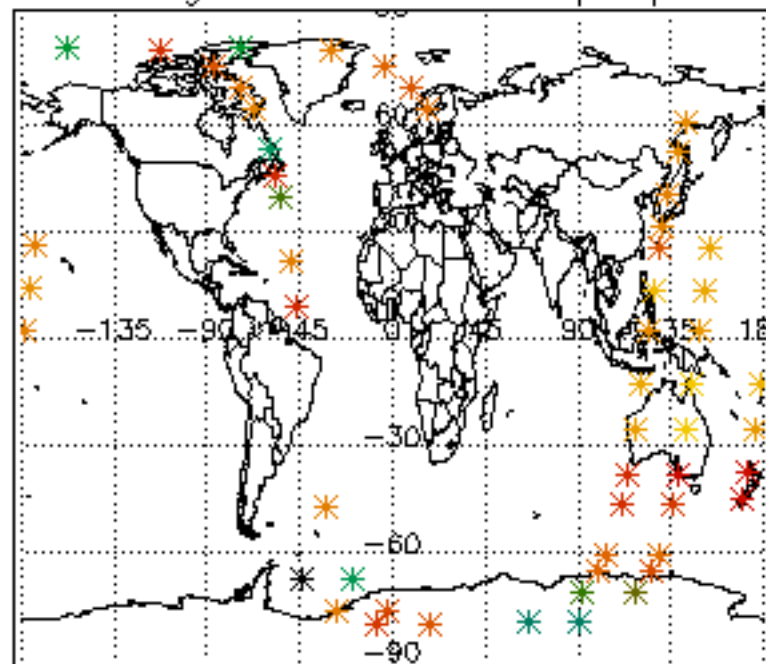




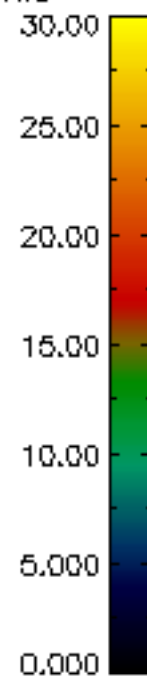
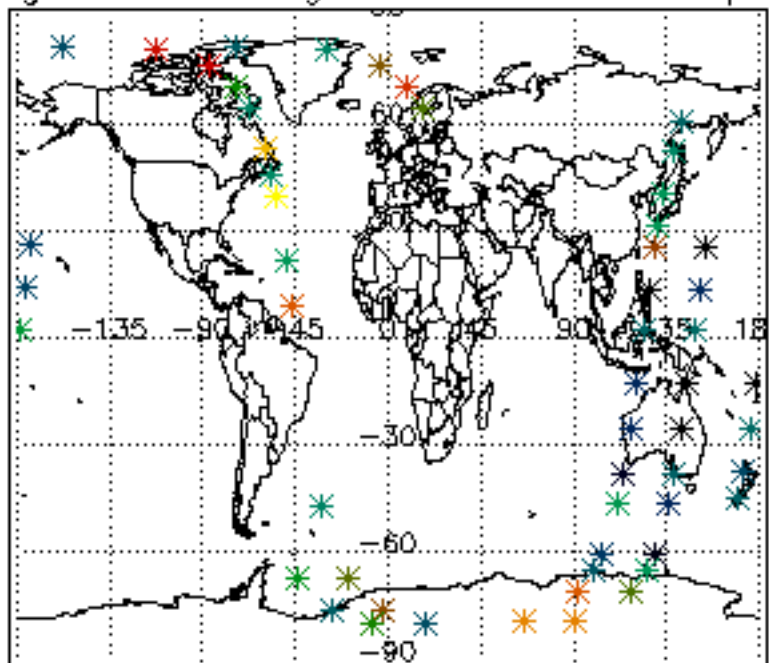
Percentage of cosmic ray hits per profile



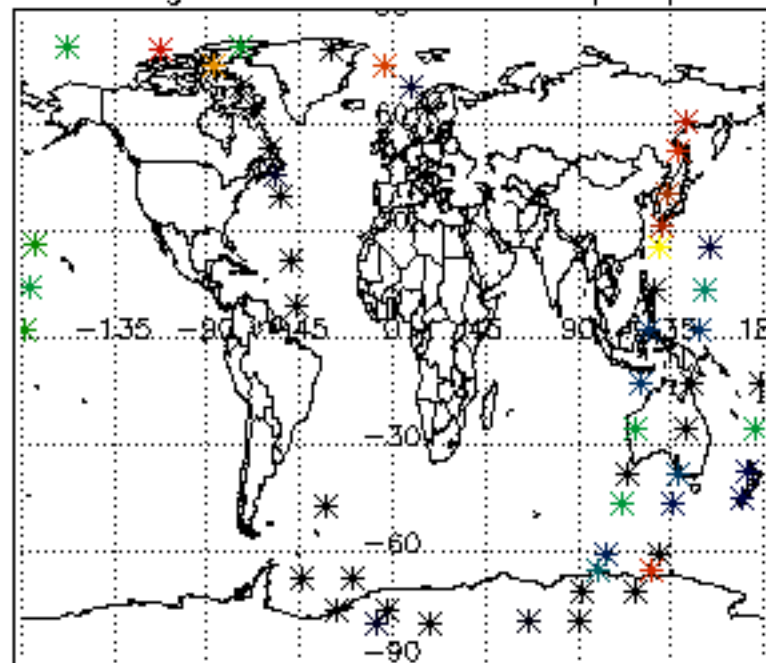
Percentage of datation errors per profile



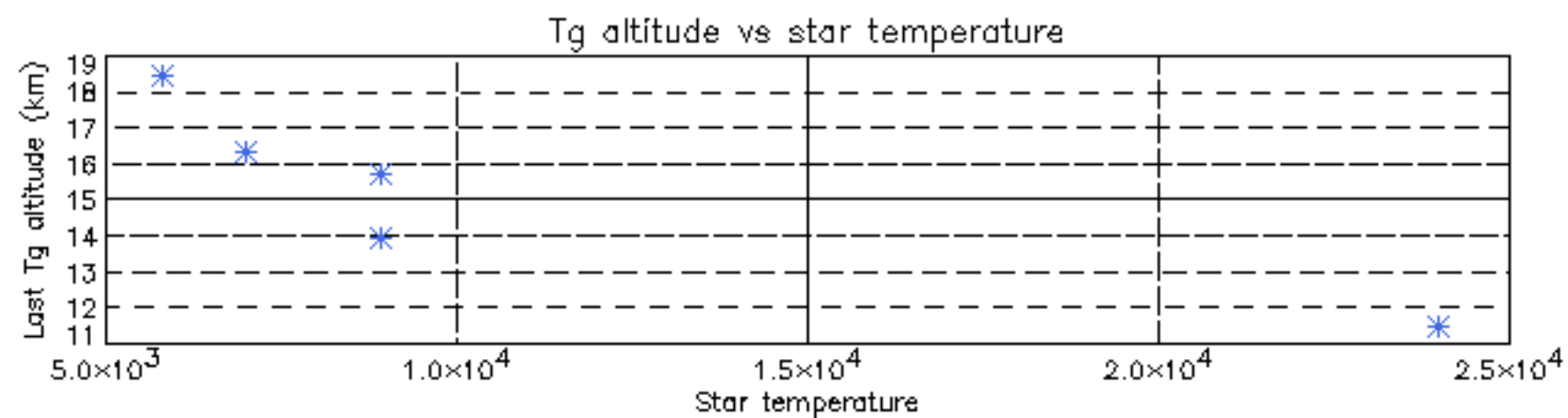
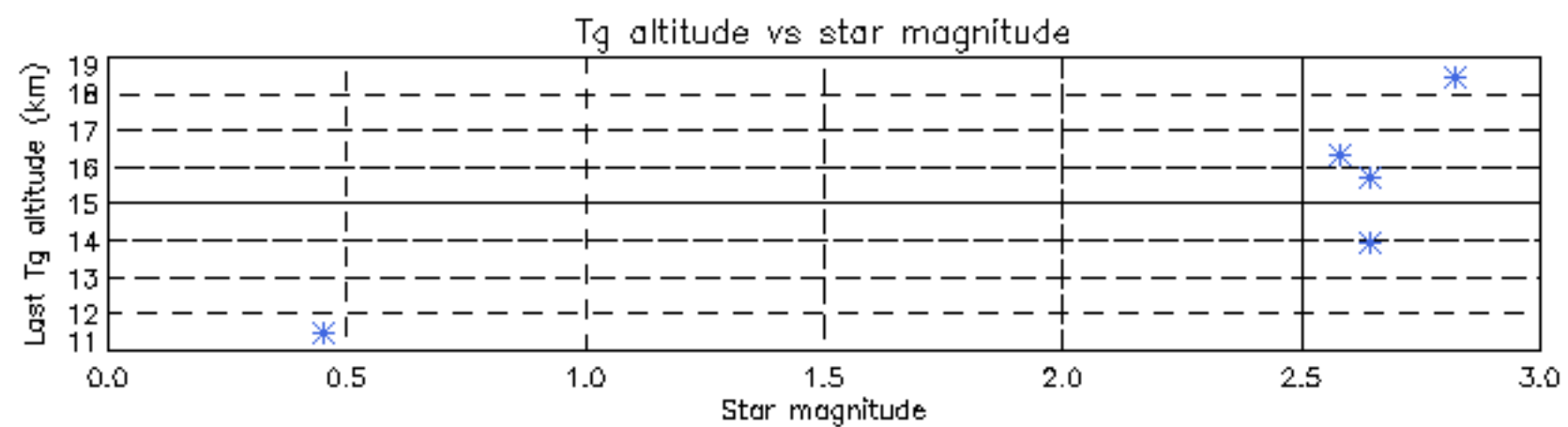
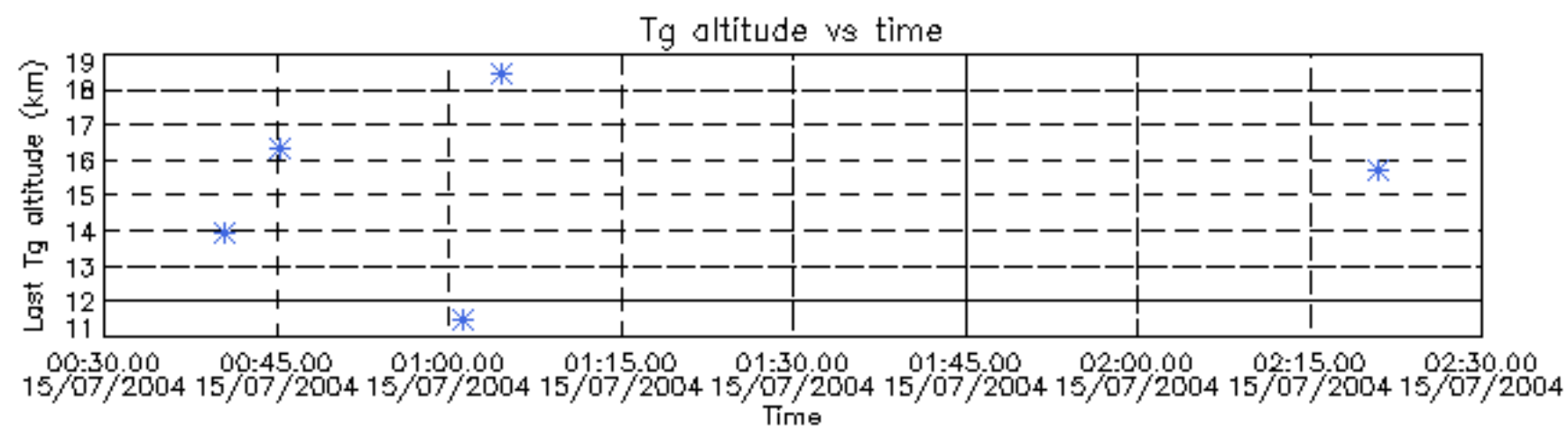
Percentage of star falling outside central band per profile



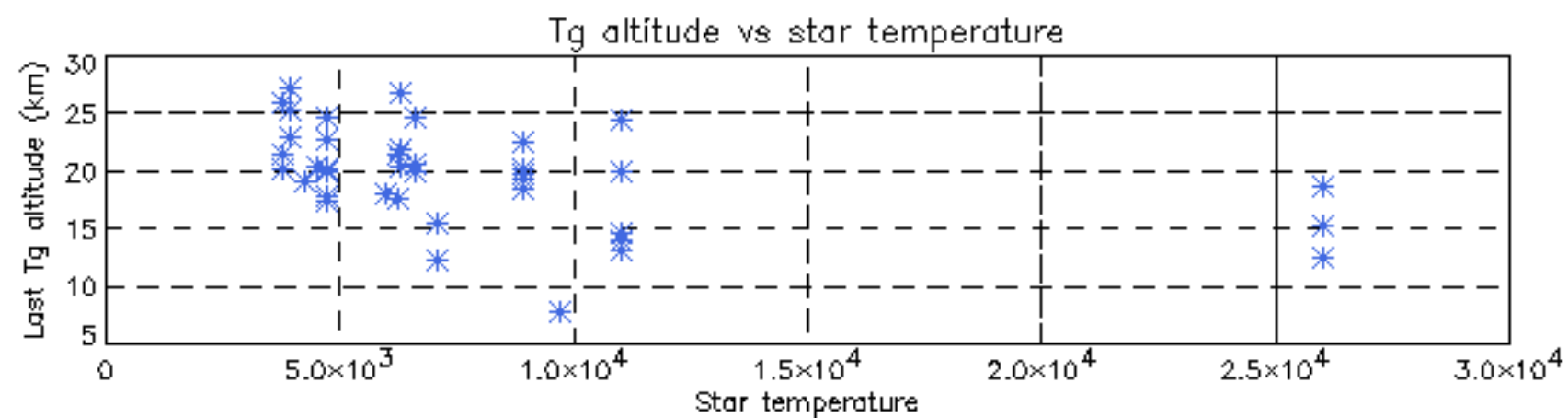
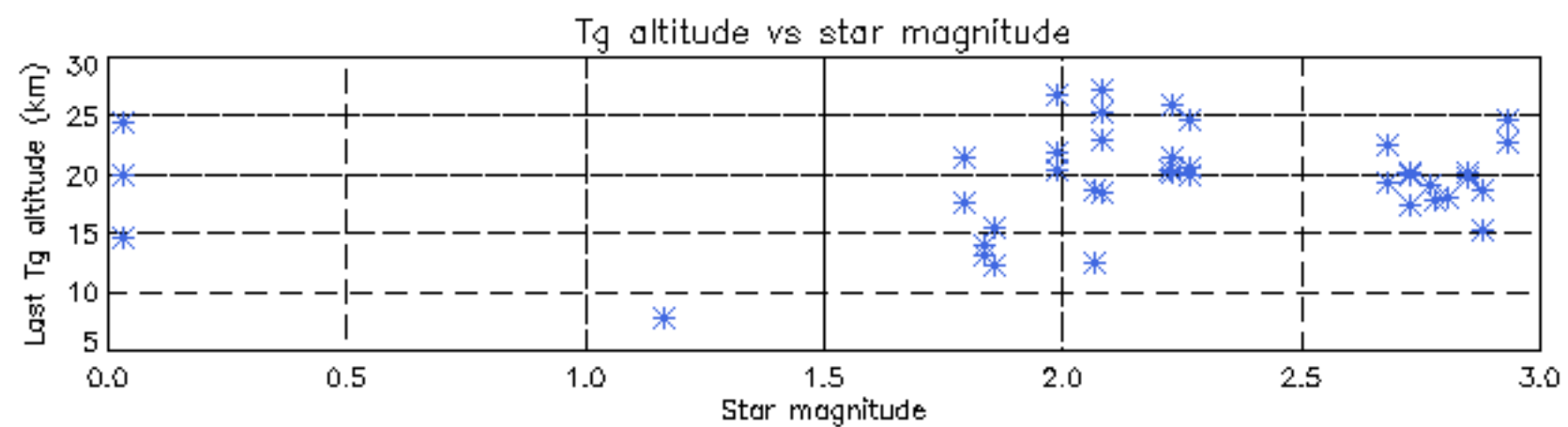
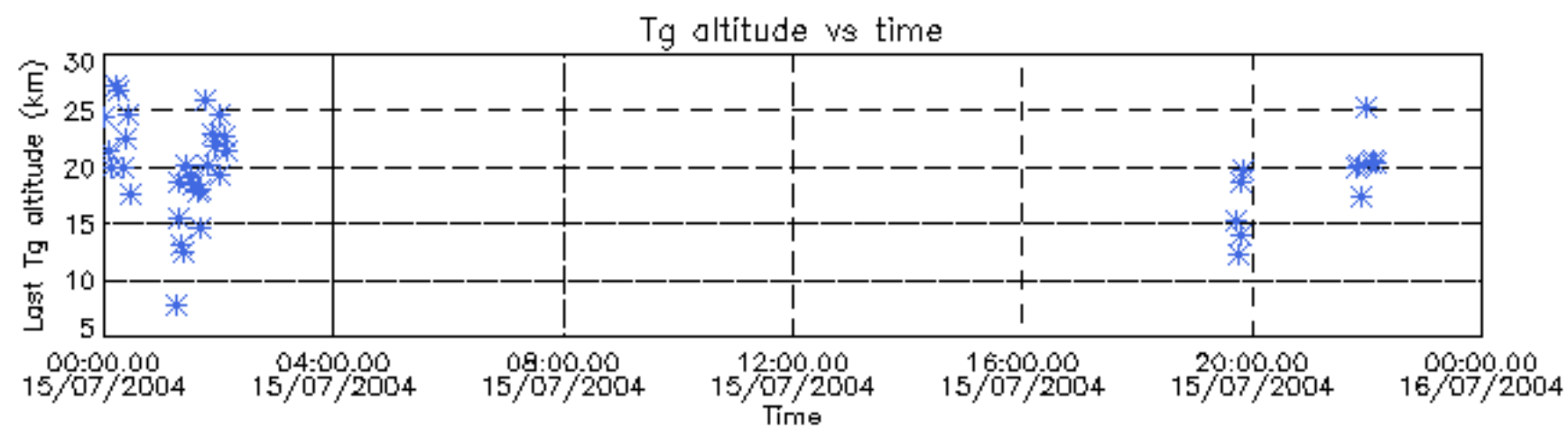
Percentage of saturation errors per profile



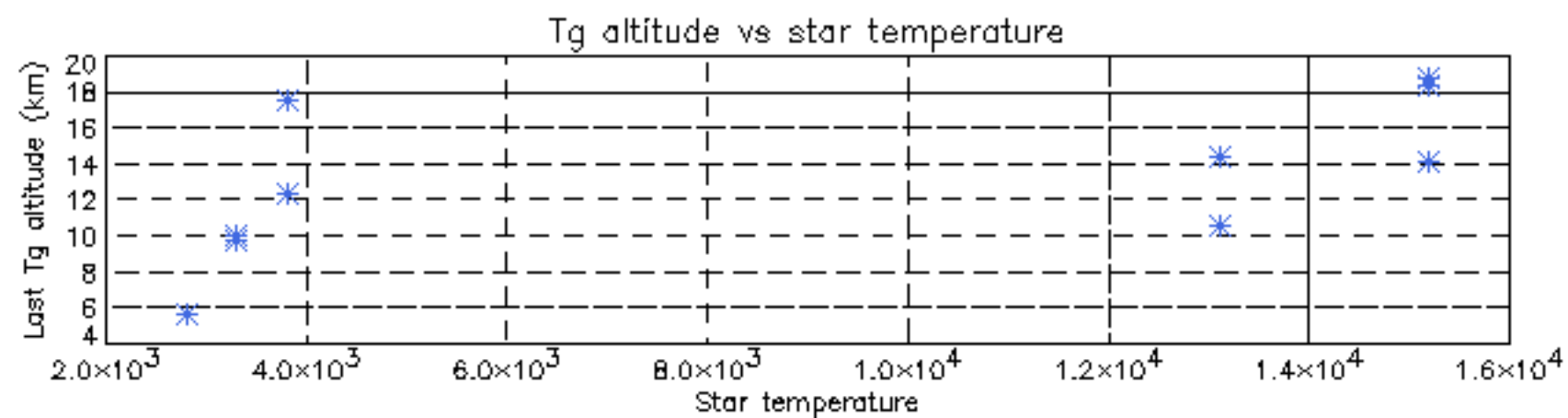
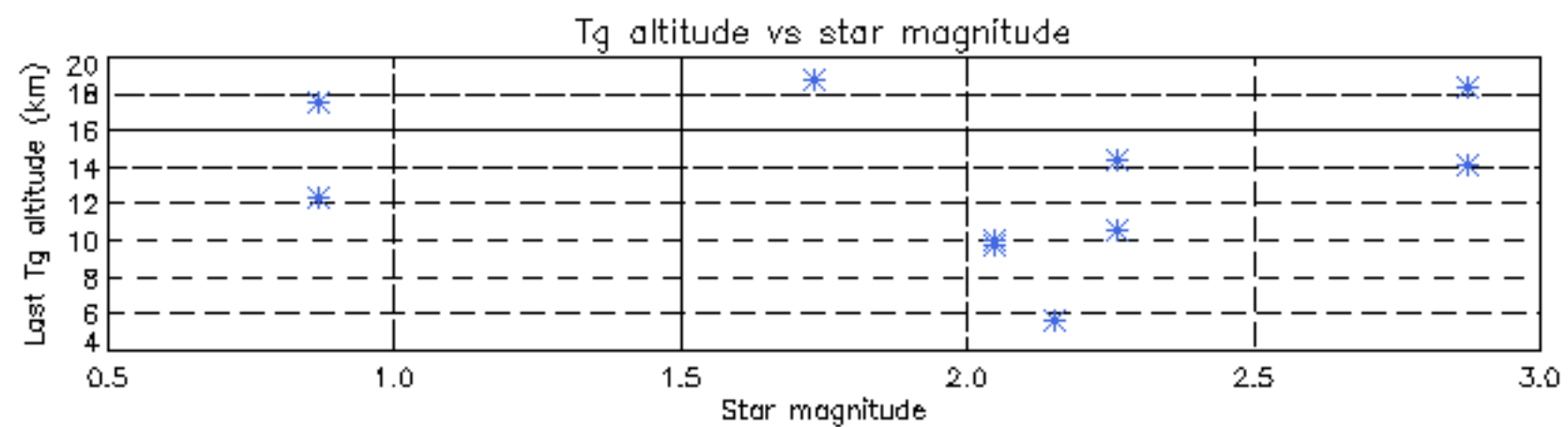
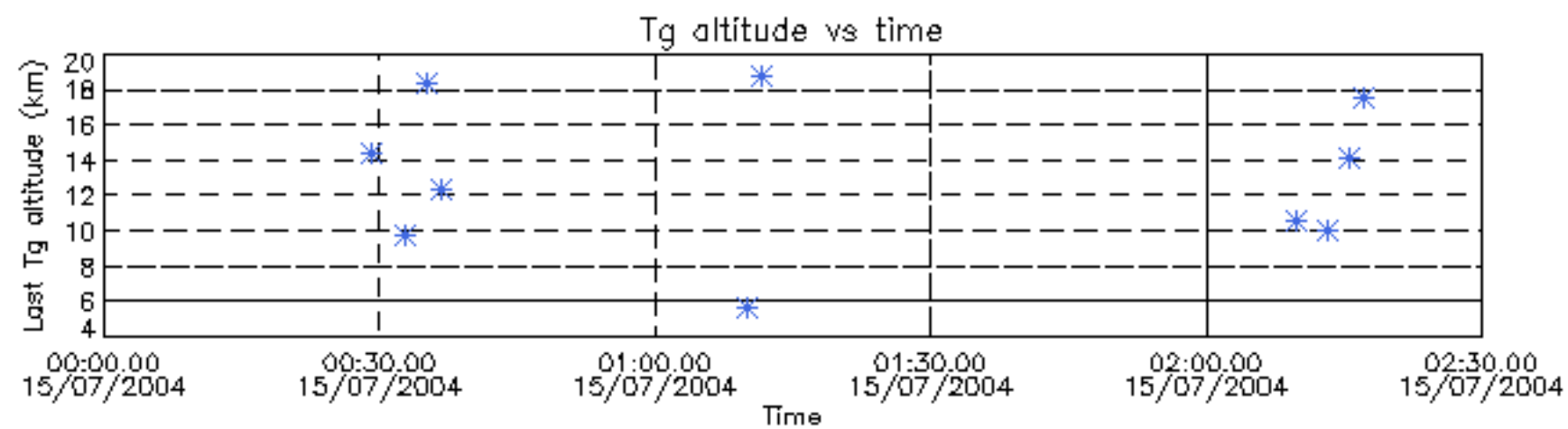
Tangent altitude at which the star is lost



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
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
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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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
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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
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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
35; 3337.5; 01-JUL-2004 05:54:57; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 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
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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
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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	
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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
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