

GOMOS Daily Report 26-JUN-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	27JUN2004 03:42:26
Data source version	GOMOS/4.02
Start time of products	26-JUN-2004 (26JUN2004 00:00:00)
Stop time of products	27-JUN-2004 (27JUN2004 00:00:00)

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

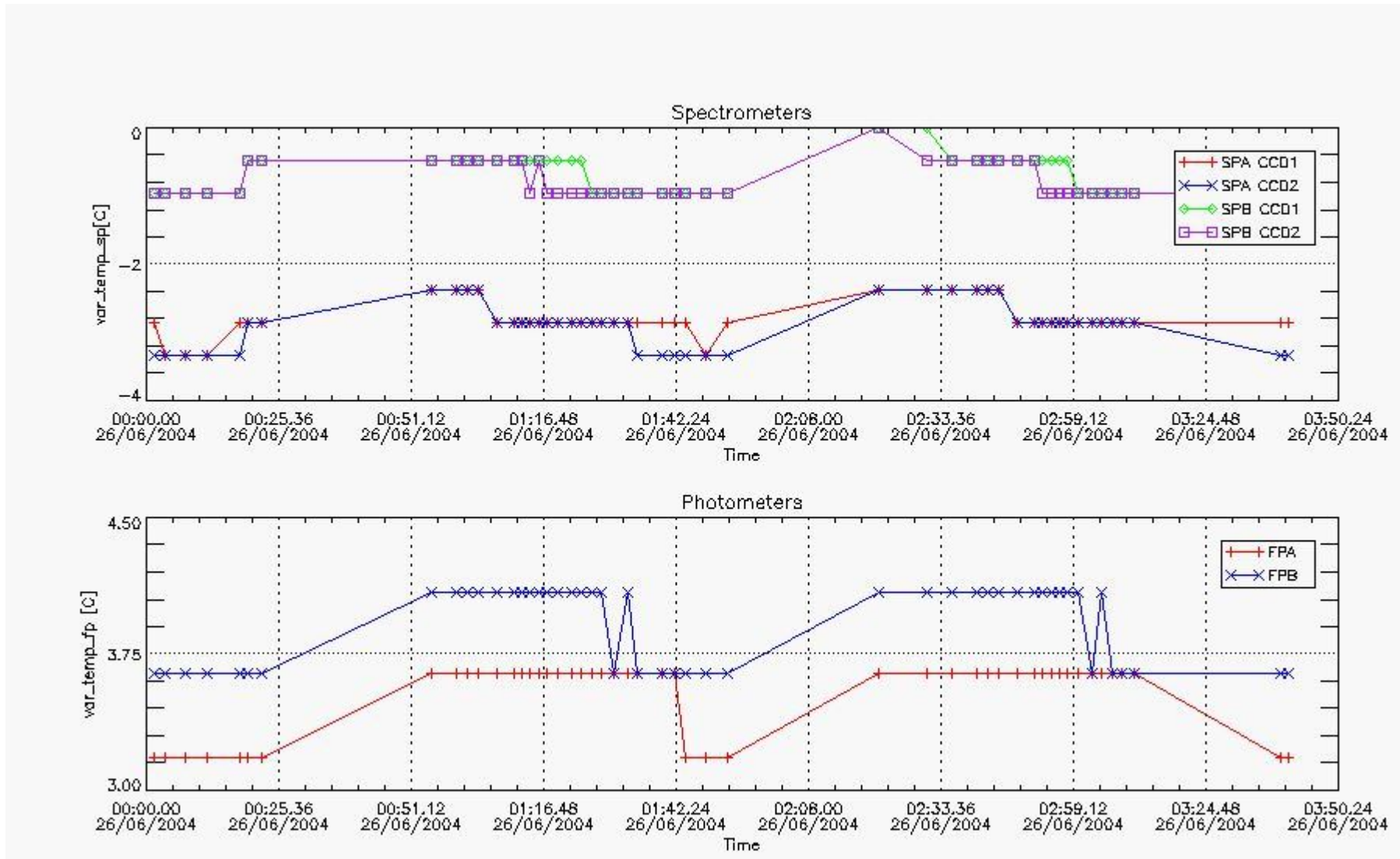
2. Summary of products arrived in PCF

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_1PNPDE20040626_000126_000000392028_00059_12137_0020.N1	26-JUN-2004 00:01:26	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	12137	No
GOM_TRA_1PNPDE20040626_000335_000000392028_00059_12137_0021.N1	26-JUN-2004 00:03:35	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12137	No
GOM_TRA_1PNPDE20040626_000723_000000362028_00059_12137_0022.N1	26-JUN-2004 00:07:23	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	12137	No
GOM_TRA_1PNPDE20040626_001148_000000372028_00059_12137_0023.N1	26-JUN-2004 00:11:48	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	12137	No
GOM_TRA_1PNPDE20040626_001802_000000492028_00059_12137_0024.N1	26-JUN-2004 00:18:02	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	12137	No
GOM_TRA_1PNPDE20040626_001938_000000492028_00059_12137_0025.N1	26-JUN-2004 00:19:38	Bright	48.500	68	18Alp Cas	2.2250	4500.0	97	12137	No
GOM_TRA_1PNPDE20040626_002208_000000382028_00059_12137_0026.N1	26-JUN-2004 00:22:08	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	12137	No
GOM_TRA_1PNPDE20040626_005503_000000482028_00060_12138_0000.N1	26-JUN-2004 00:55:03	Dark	48.000	9	Alp Eri	0.45300	24000.	96	12138	No
GOM_TRA_1PNPDE20040626_005959_000000402028_00060_12138_0001.N1	26-JUN-2004 00:59:59	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12138	No
GOM_TRA_1PNPDE20040626_010200_000000582028_00060_12138_0002.N1	26-JUN-2004 01:02:00	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	12138	No
GOM_TRA_1PNPDE20040626_010401_000000512028_00060_12138_0003.N1	26-JUN-2004 01:04:01	Dark	51.000	31	Alp Gru	1.7340	15200.	102	12138	No
GOM_TRA_1PNPDE20040626_010741_000000452028_00060_12138_0004.N1	26-JUN-2004 01:07:41	Twilight	45.000	43	Alp TrA	1.9100	4250.0	90	12138	No
GOM_TRA_1PNPDE20040626_011103_000000422028_00060_12138_0005.N1	26-JUN-2004 01:11:03	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12138	No
GOM_TRA_1PNPDE20040626_011227_000000402028_00060_12138_0006.N1	26-JUN-2004 01:12:27	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12138	No
GOM_TRA_1PNPDE20040626_011413_000000462028_00060_12138_0007.N1	26-JUN-2004 01:14:13	Bright	45.500	40	The Sco	1.8590	7100.0	91	12138	No
GOM_TRA_1PNPDE20040626_011556_000000442028_00060_12138_0008.N1	26-JUN-2004 01:15:56	Bright	44.000	25	35Lam Sco	1.6200	28000.	88	12138	No
GOM_TRA_1PNPDE20040626_011716_000000572028_00060_12138_0009.N1	26-JUN-2004 01:17:16	Bright	57.000	116	19Del Sgr	2.7000	4100.0	114	12138	No
GOM_TRA_1PNPDE20040626_011925_000000512028_00060_12138_0010.N1	26-JUN-2004 01:19:25	Bright	51.000	155	41Pi Sgr	2.9000	6600.0	102	12138	No
GOM_TRA_1PNPDE20040626_012211_000000402028_00060_12138_0011.N1	26-JUN-2004 01:22:11	Bright	40.000	86	35Eta Oph	2.4300	10200.	80	12138	No
GOM_TRA_1PNPDE20040626_012356_000000382028_00060_12138_0012.N1	26-JUN-2004 01:23:56	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12138	No
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GOM_TRA_1PNPDE20040626_012804_000000412028_00060_12138_0014.N1	26-JUN-2004 01:28:04	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	12138	No
GOM_TRA_1PNPDE20040626_013026_000000402028_00060_12138_0015.N1	26-JUN-2004 01:30:26	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	12138	No
GOM_TRA_1PNPDE20040626_013255_000000402028_00060_12138_0016.N1	26-JUN-2004 01:32:55	Bright	40.000	127	27Bet Her	2.7810	4700.0	80	12138	No
GOM_TRA_1PNPDE20040626_013456_000000362028_00060_12138_0017.N1	26-JUN-2004 01:34:56	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	12138	No
GOM_TRA_1PNPDE20040626_013946_000000512028_00060_12138_0018.N1	26-JUN-2004 01:39:46	Bright	51.000	5	3Alp Lyr	0.033000	11000.	102	12138	No
GOM_TRA_1PNPDE20040626_014201_000000452028_00060_12138_0019.N1	26-JUN-2004 01:42:01	Bright	45.000	130	23Bet Dra	2.7990	5800.0	90	12138	No
GOM_TRA_1PNPDE20040626_014410_000000392028_00060_12138_0020.N1	26-JUN-2004 01:44:10	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	12138	No
GOM_TRA_1PNPDE20040626_014759_000000372028_00060_12138_0021.N1	26-JUN-2004 01:47:59	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	12138	No
GOM_TRA_1PNPDE20040626_015224_000000382028_00060_12138_0022.N1	26-JUN-2004 01:52:24	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12138	No
GOM_TRA_1PNPDE20040626_022124_000000382028_00060_12138_0000.N1	26-JUN-2004 02:21:24	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	12138	No
GOM_TRA_1PNPDE20040626_023053_000000652028_00060_12138_0001.N1	26-JUN-2004 02:30:53	Dark	65.000	52	16Bet Cet	2.0370	4500.0	130	12138	No
GOM_TRA_1PNPDE20040626_023538_000000472028_00061_12139_0002.N1	26-JUN-2004 02:35:38	Dark	46.500	9	Alp Eri	0.45300	24000.	93	12139	No
GOM_TRA_1PNPDE20040626_024036_000000392028_00061_12139_0003.N1	26-JUN-2004 02:40:36	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	12139	No
GOM_TRA_1PNPDE20040626_024237_000000552028_00061_12139_0004.N1	26-JUN-2004 02:42:37	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	12139	No
GOM_TRA_1PNPDE20040626_024437_000000512028_00061_12139_0005.N1	26-JUN-2004 02:44:37	Dark	50.500	31	Alp Gru	1.7340	15200.	101	12139	No
GOM_TRA_1PNPDE20040626_024818_000000442028_00061_12139_0006.N1	26-JUN-2004 02:48:18	Twilight	44.000	43	Alp TrA	1.9100	4250.0	88	12139	No
GOM_TRA_1PNPDE20040626_025138_000000412028_00061_12139_0007.N1	26-JUN-2004 02:51:38	Bright	40.500	141	Bet Ara	2.8400	4600.0	81	12139	No
GOM_TRA_1PNPDE20040626_025304_000000402028_00061_12139_0008.N1	26-JUN-2004 02:53:04	Bright	40.000	147	Alp Ara	2.8770	26000.	80	12139	No
GOM_TRA_1PNPDE20040626_025451_000000432028_00061_12139_0009.N1	26-JUN-2004 02:54:51	Bright	42.500	40	The Sco	1.8590	7100.0	85	12139	No
GOM_TRA_1PNPDE20040626_025632_000000462028_00061_12139_0010.N1	26-JUN-2004 02:56:32	Bright	45.500	25	35Lam Sco	1.6200	28000.	91	12139	No
GOM_TRA_1PNPDE20040626_025754_000000512028_00061_12139_0011.N1	26-JUN-2004 02:57:54	Bright	50.500	116	19Del Sgr	2.7000	4100.0	101	12139	No
GOM_TRA_1PNPDE20040626_030002_000000512028_00061_12139_0012.N1	26-JUN-2004 03:00:02	Bright	50.500	155	41Pi Sgr	2.9000	6600.0	101	12139	No
GOM_TRA_1PNPDE20040626_030248_000000392028_00061_12139_0013.N1	26-JUN-2004 03:02:48	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	12139	No
GOM_TRA_1PNPDE20040626_030432_000000382028_00061_12139_0014.N1	26-JUN-2004 03:04:32	Bright	38.000	98	13Zet Oph	2.5710	30000.	76	12139	No
GOM_TRA_1PNPDE20040626_030640_000000402028_00061_12139_0015.N1	26-JUN-2004 03:06:40	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	12139	No
GOM_TRA_1PNPDE20040626_030840_000000402028_00061_12139_0016.N1	26-JUN-2004 03:08:40	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	12139	No
GOM_TRA_1PNPDE20040626_031102_000000392028_00061_12139_0017.N1	26-JUN-2004 03:11:02	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	12139	No
GOM_TRA_1PNPDE20040626_033913_000000502028_00061_12139_0000.N1	26-JUN-2004 03:39:13	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	12139	No

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



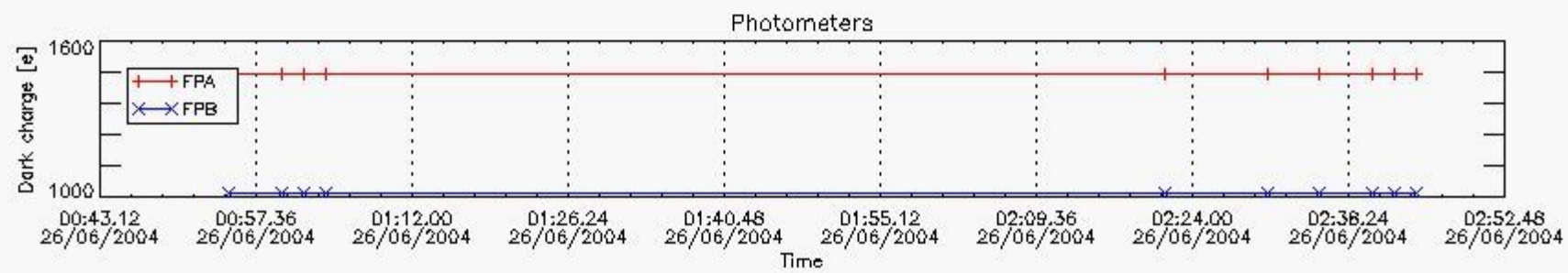
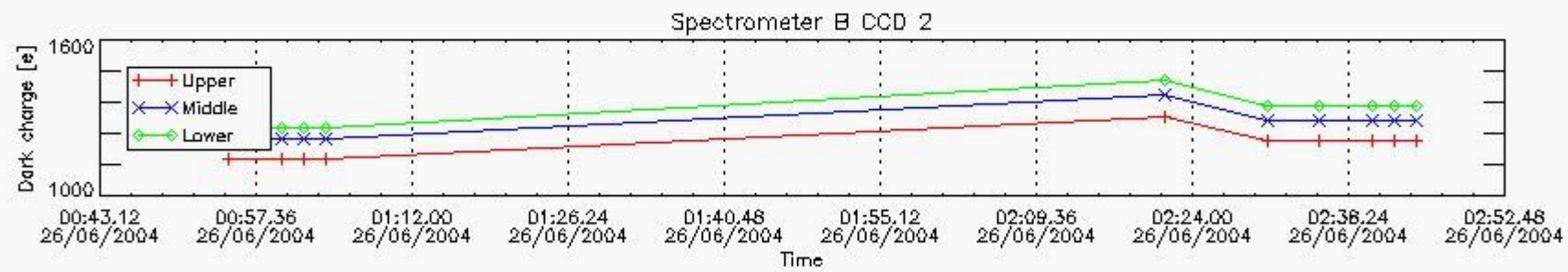
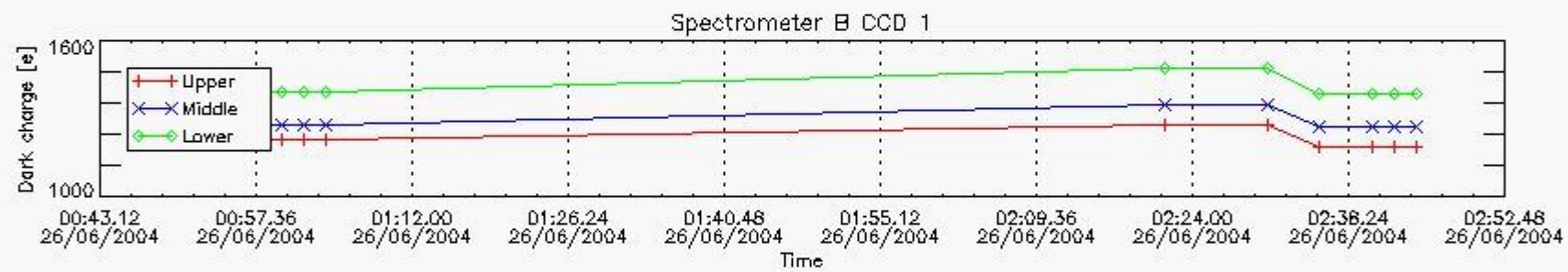
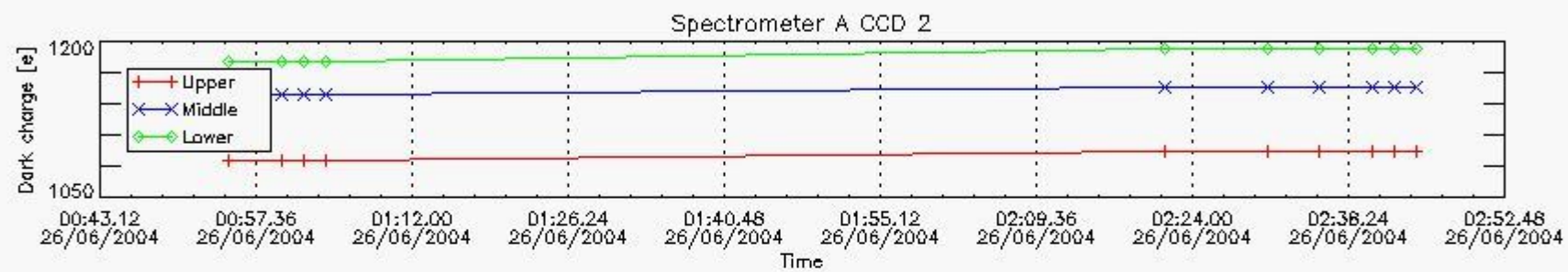
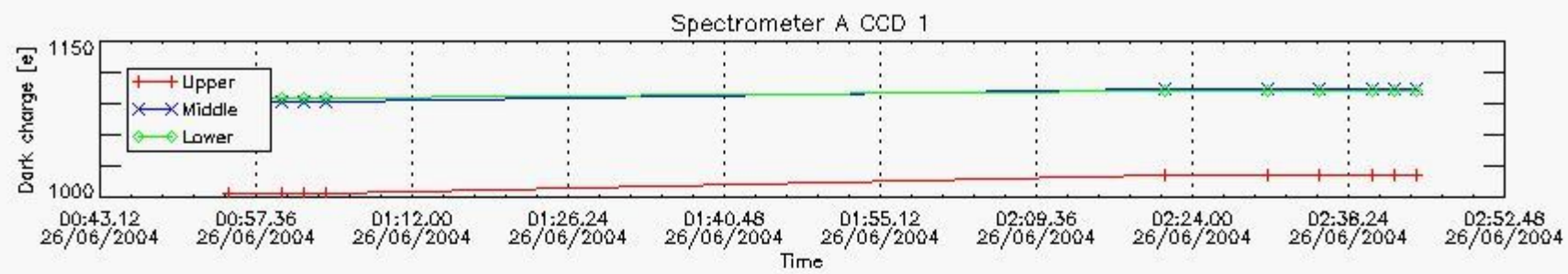
4. Overview of dark signal processing per product

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



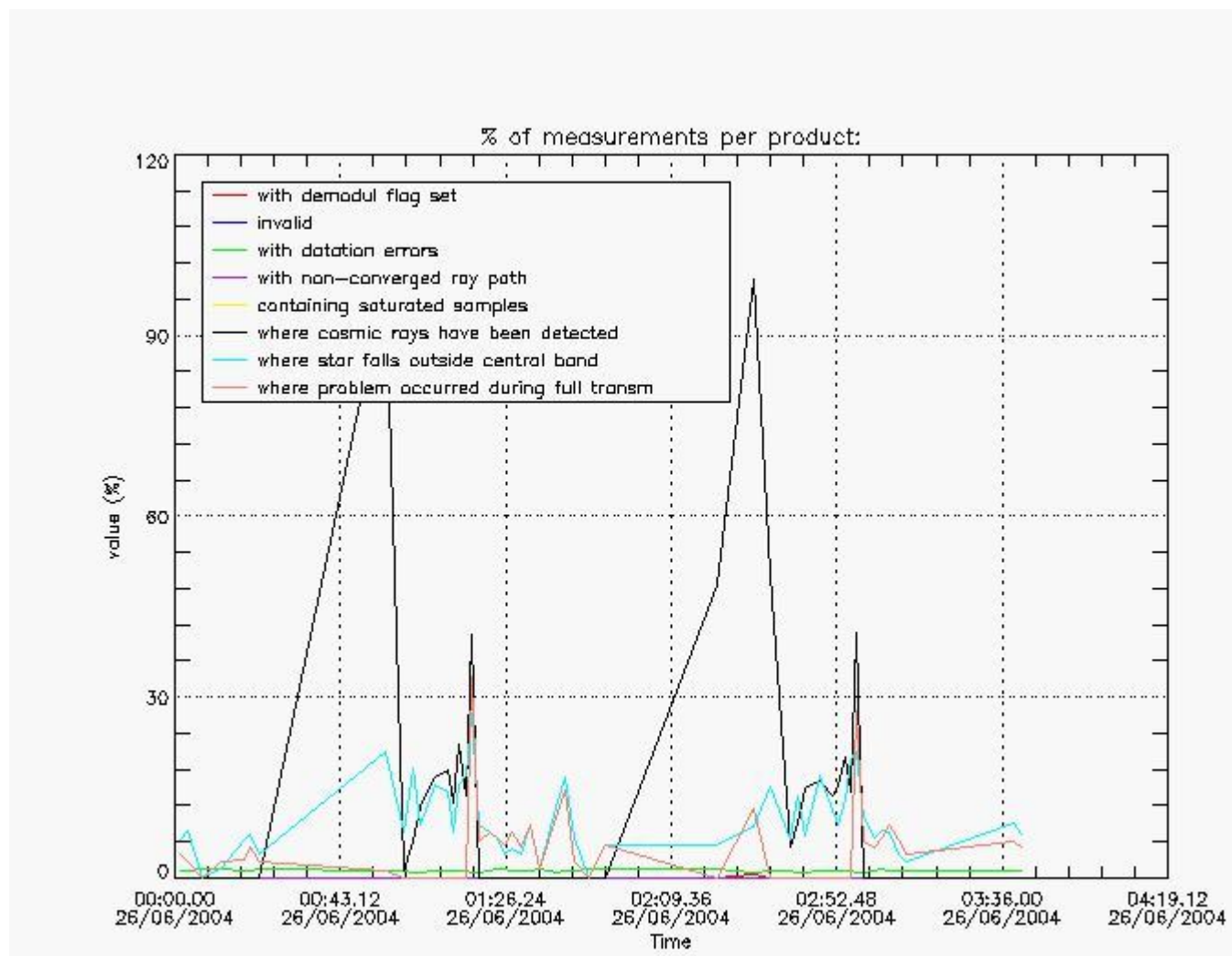
5. Demodulation flag and quality information monitoring

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:

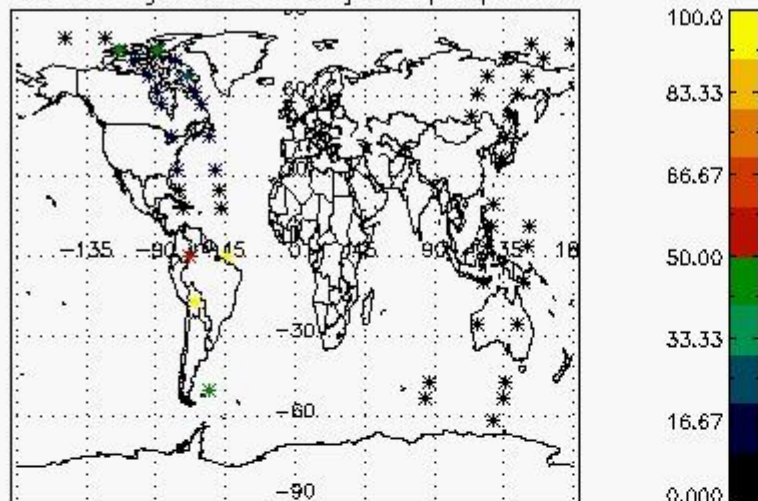
At least one measurement with demodulation flag set:	6.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

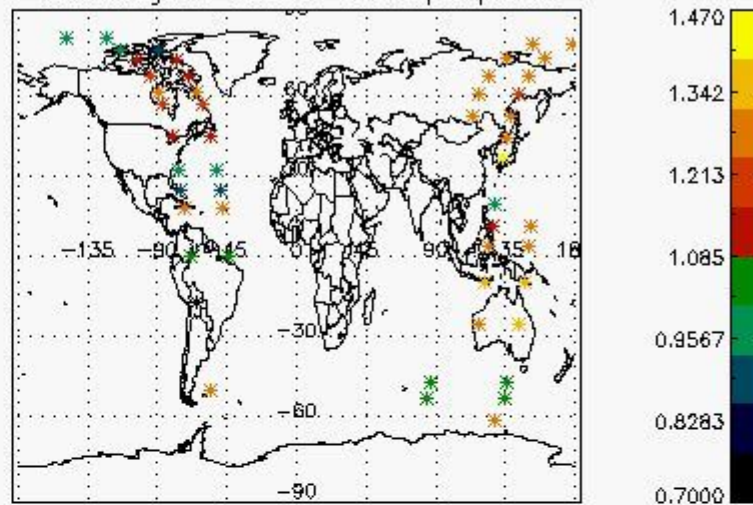


5.3 Plot quality information per product (world map)

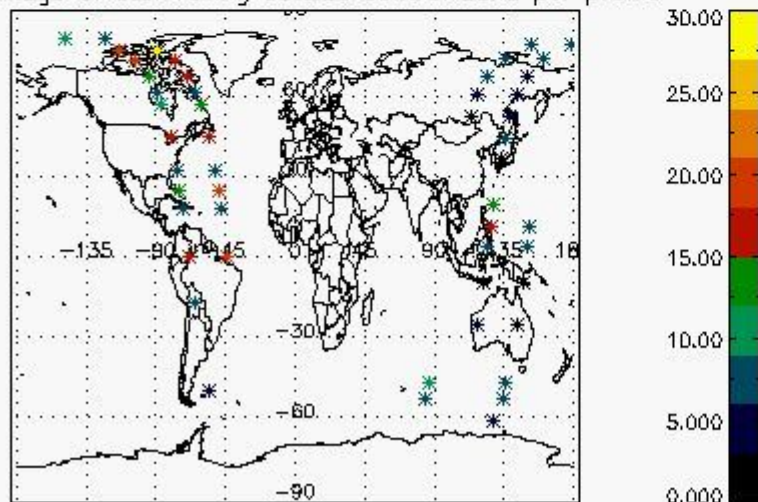
Percentage of cosmic ray hits per profile



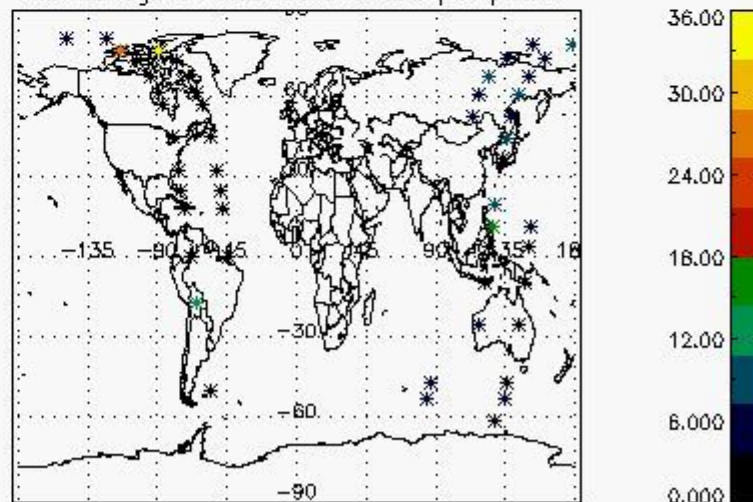
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



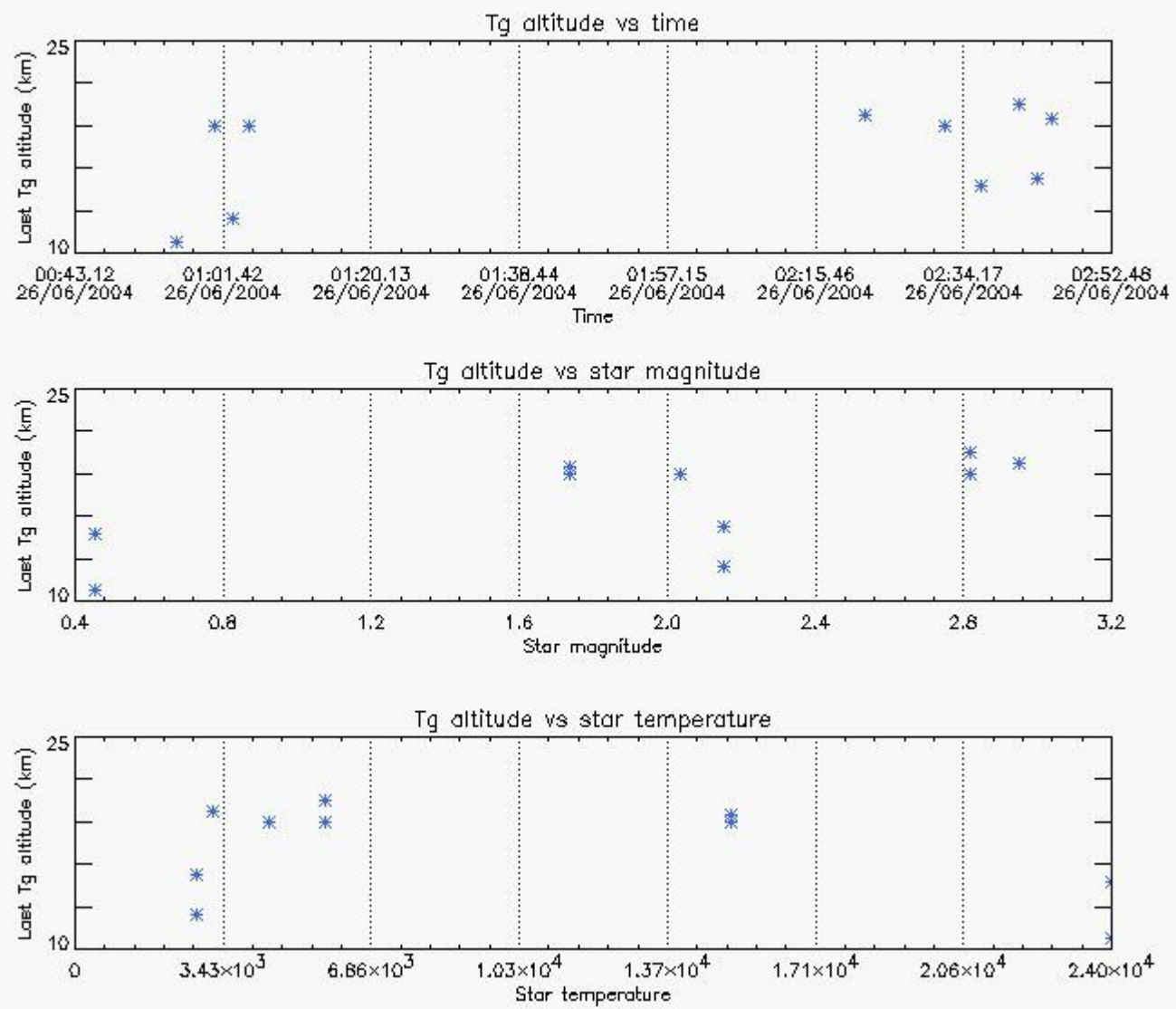
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.999	19.232	14.281
St. deviation:	3.4204	4.5862	0.60909
Maximum:	20.520	30.989	14.712
Minimum:	10.722	7.2788	13.850
Number of data:	10.000	38.000	2.0000

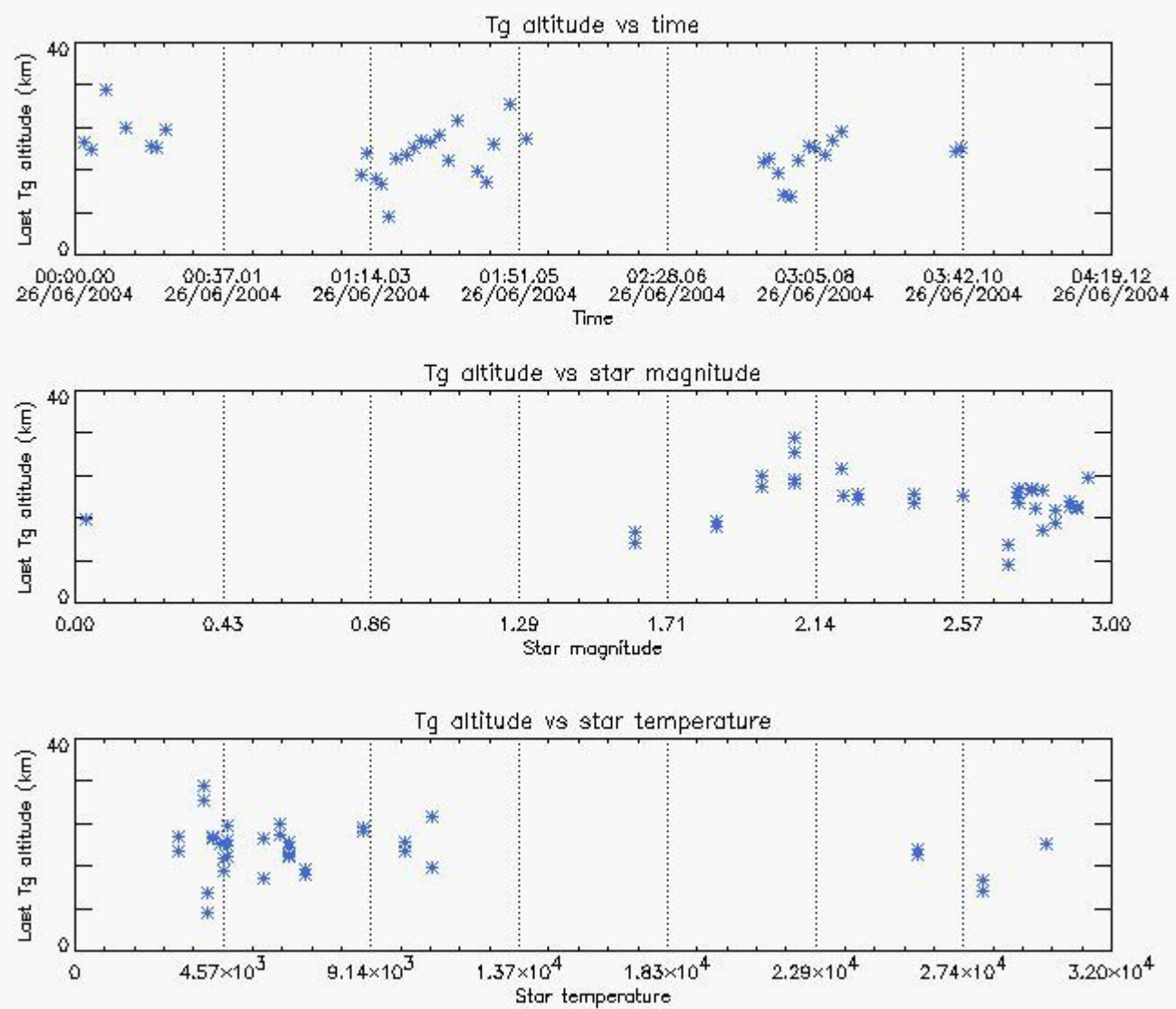
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



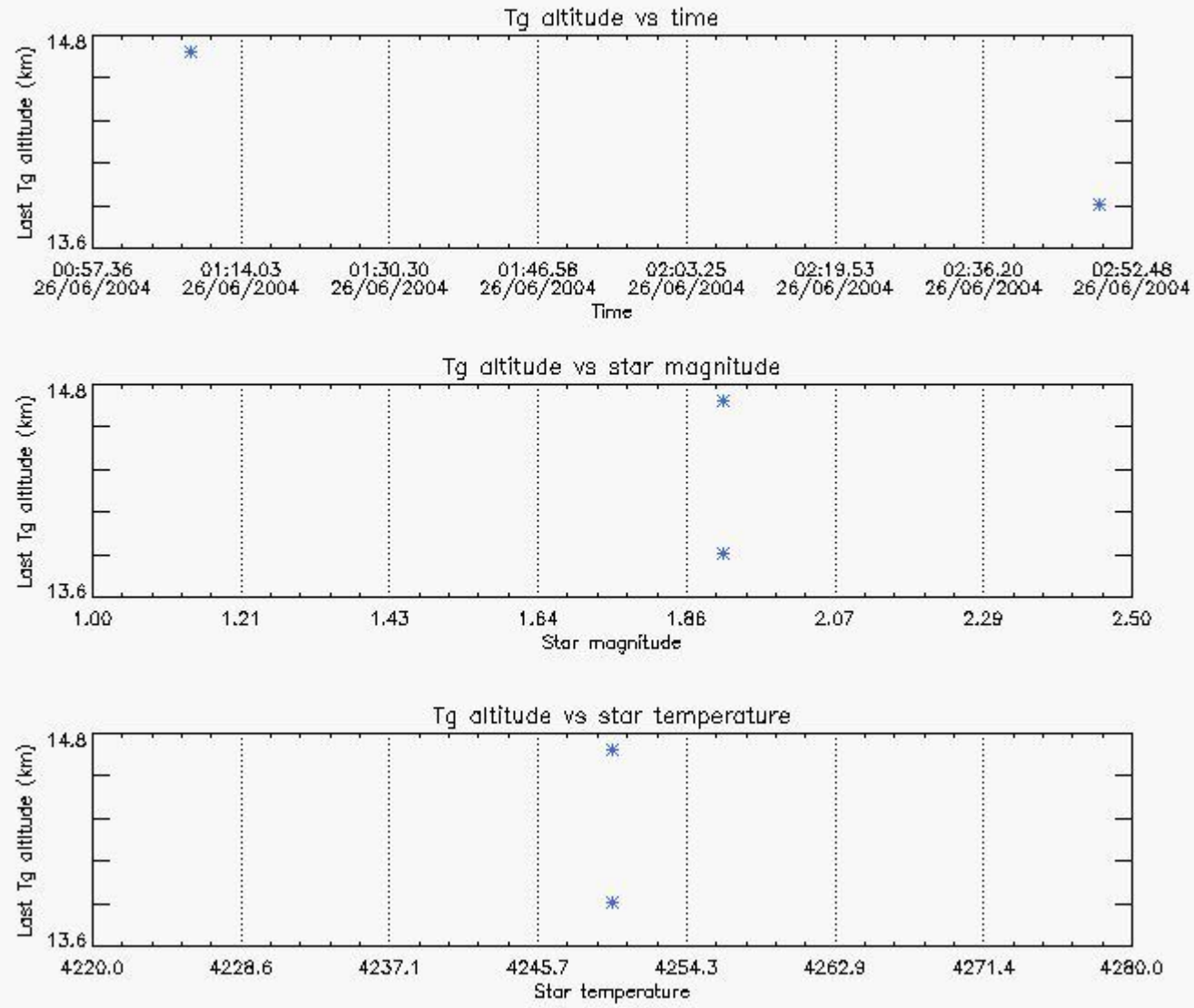
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

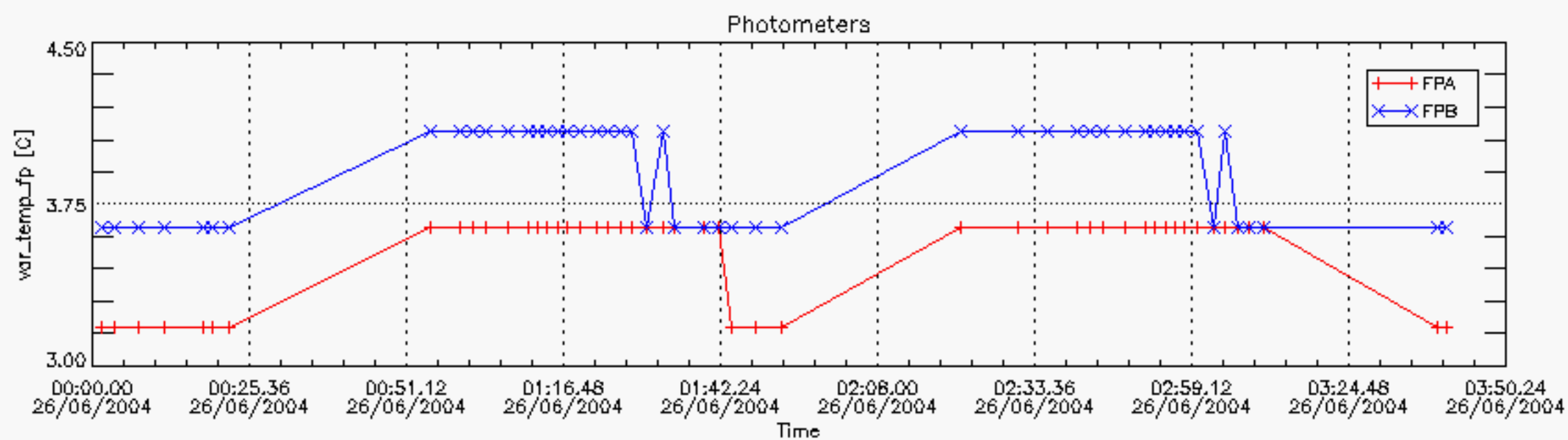
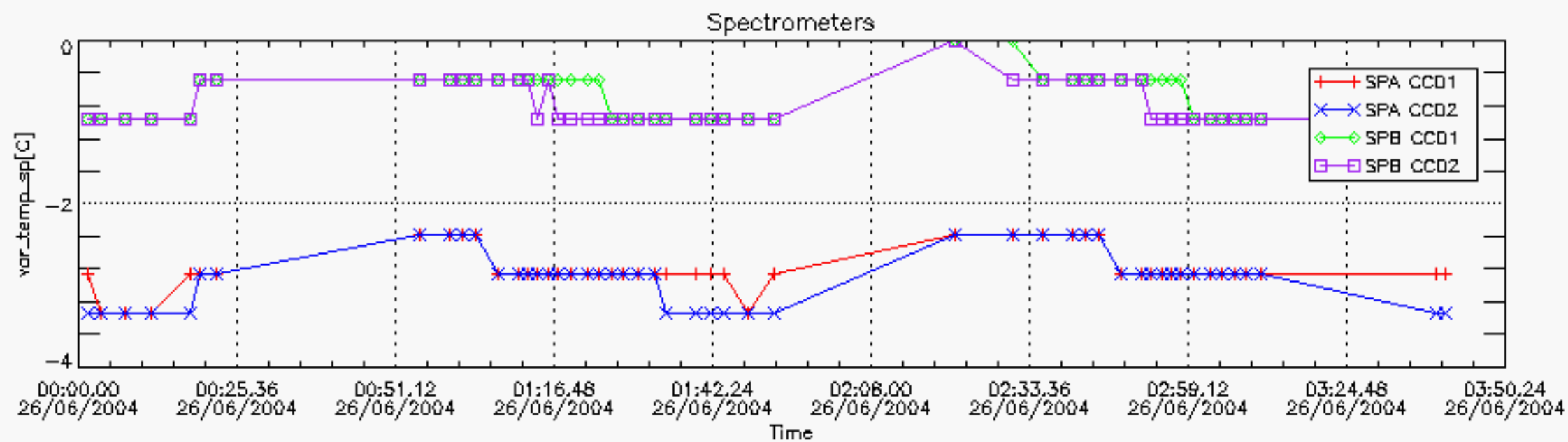
Tangent altitude at which the star is lost

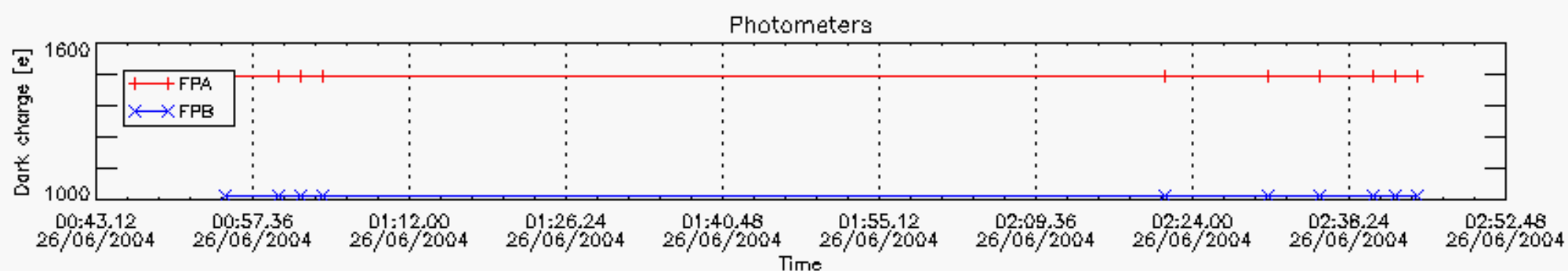
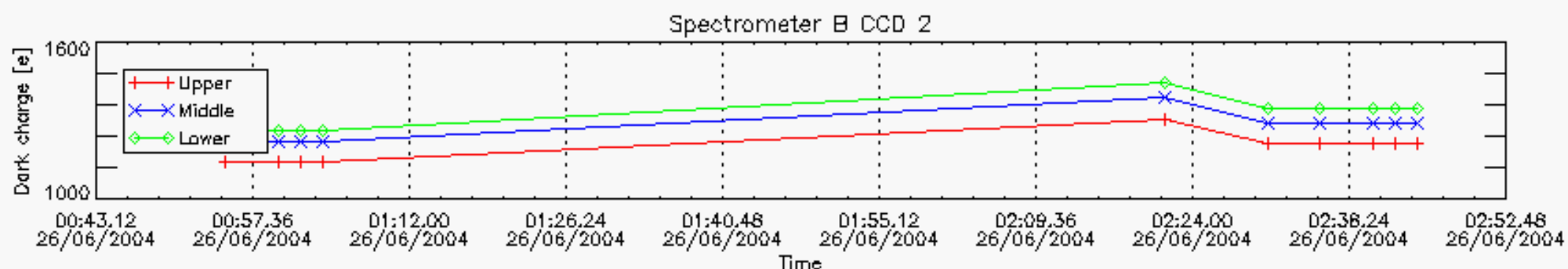
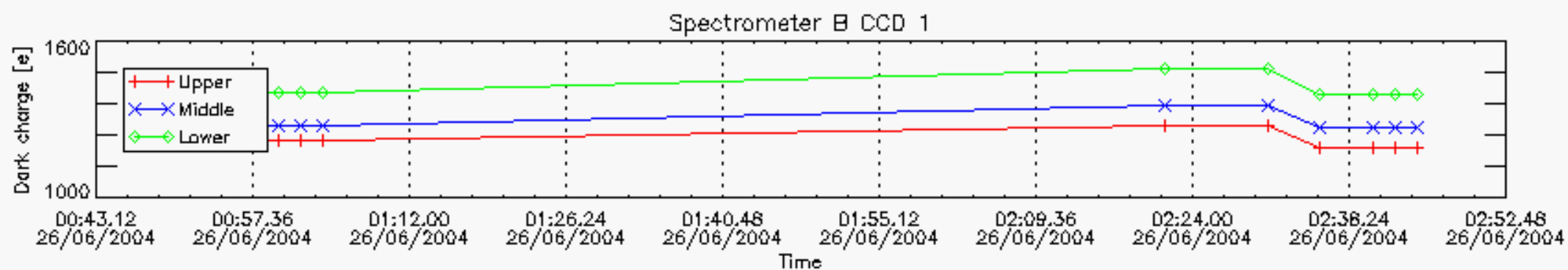
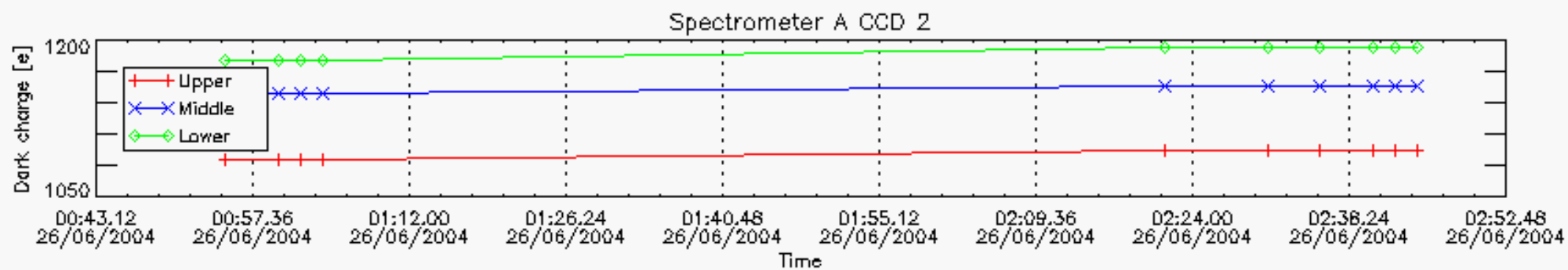
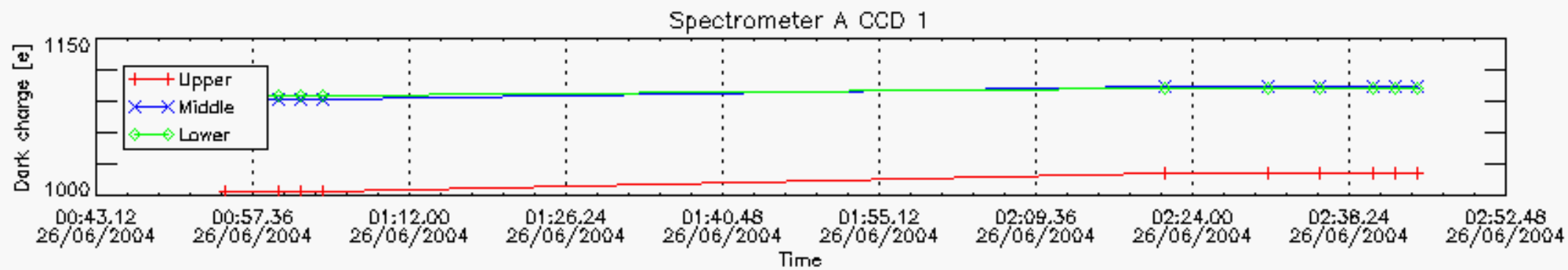


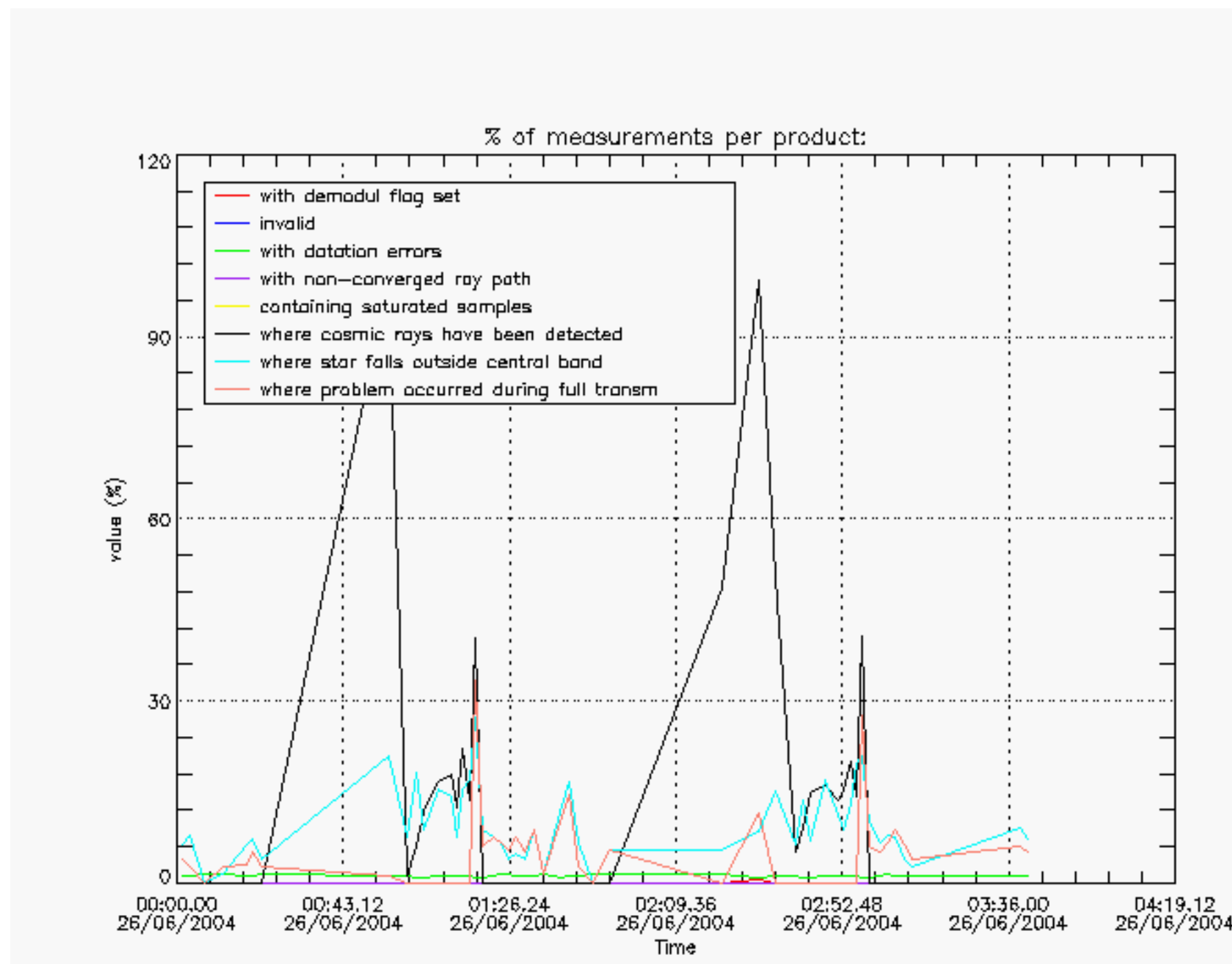
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

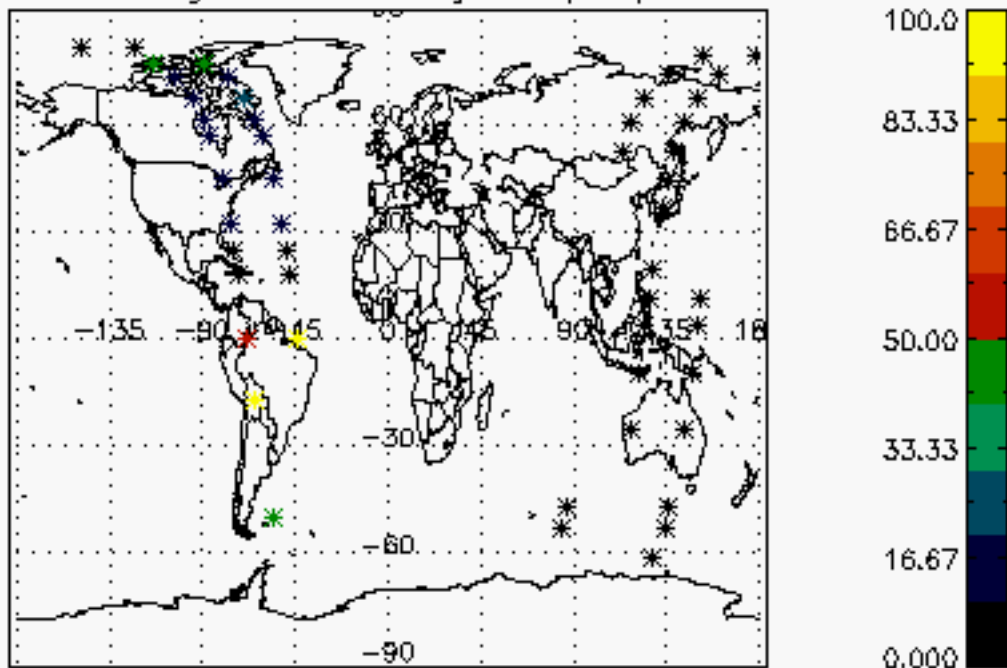
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.7	1461.2	1447.3
St. deviation:	3.7795	4.8105	6.3309	7.3763
Maximum:	1485.0	1465.0	1505.0	1489.0
Minimum:	1445.0	1430.0	1442.0	1435.0
Number of data:	13400.	13400.	43300.	43300.



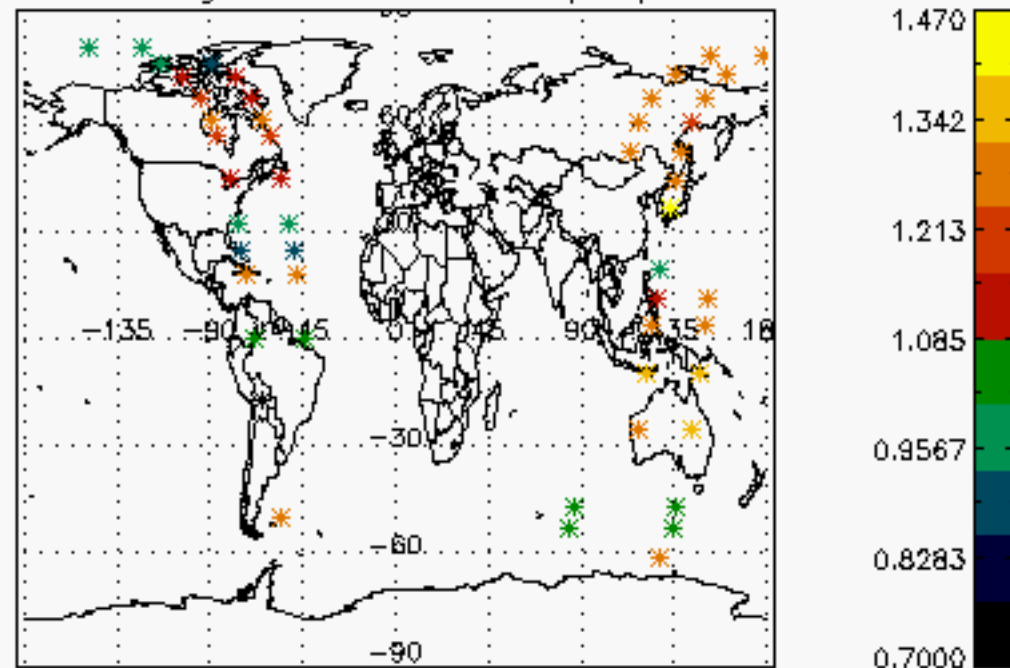




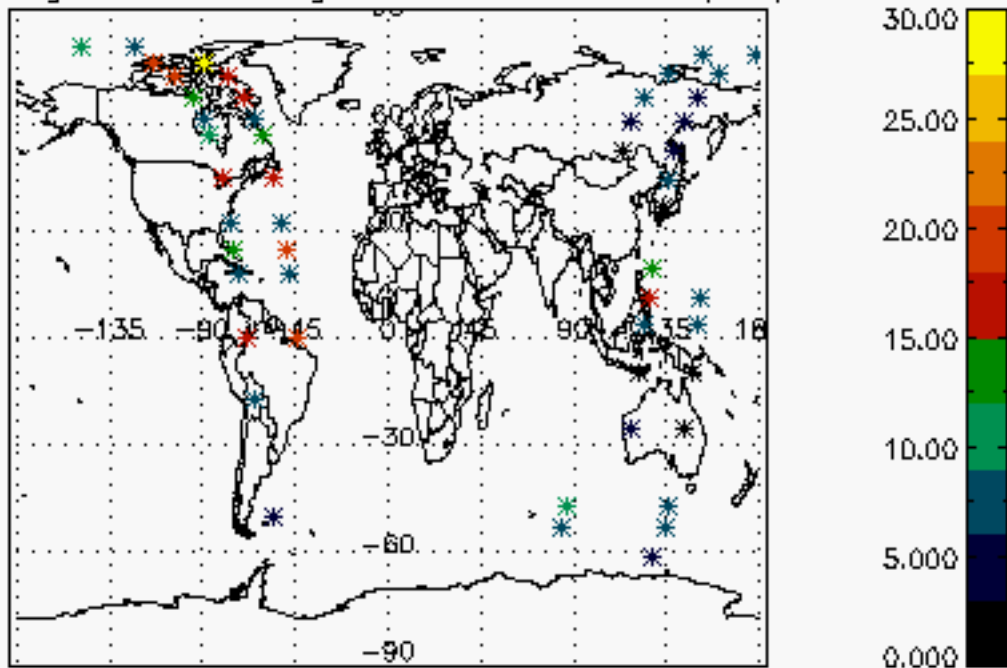
Percentage of cosmic ray hits per profile



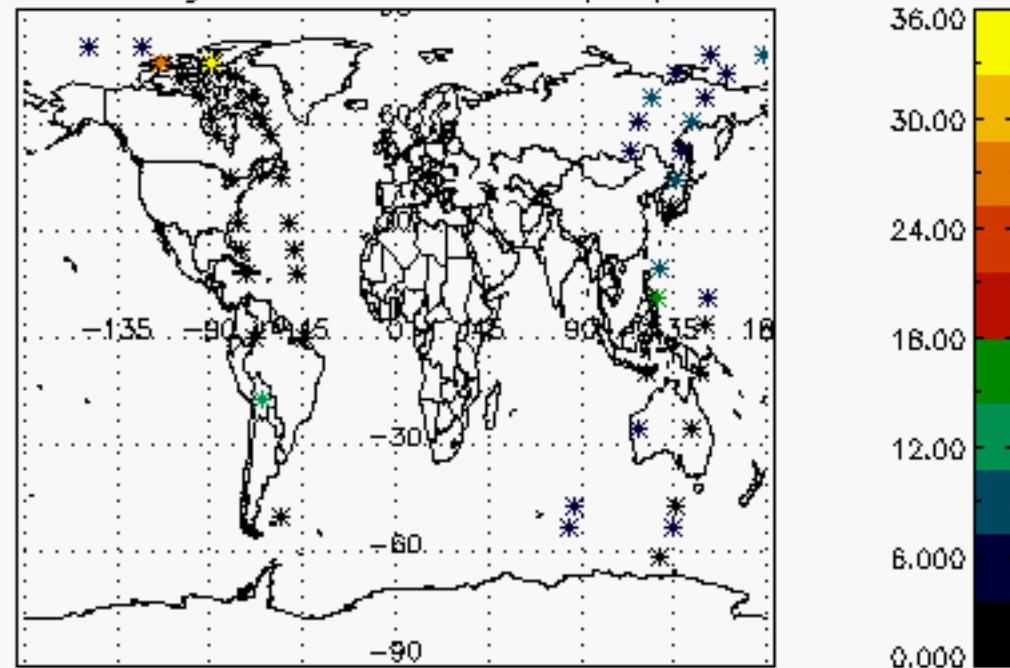
Percentage of datation errors per profile



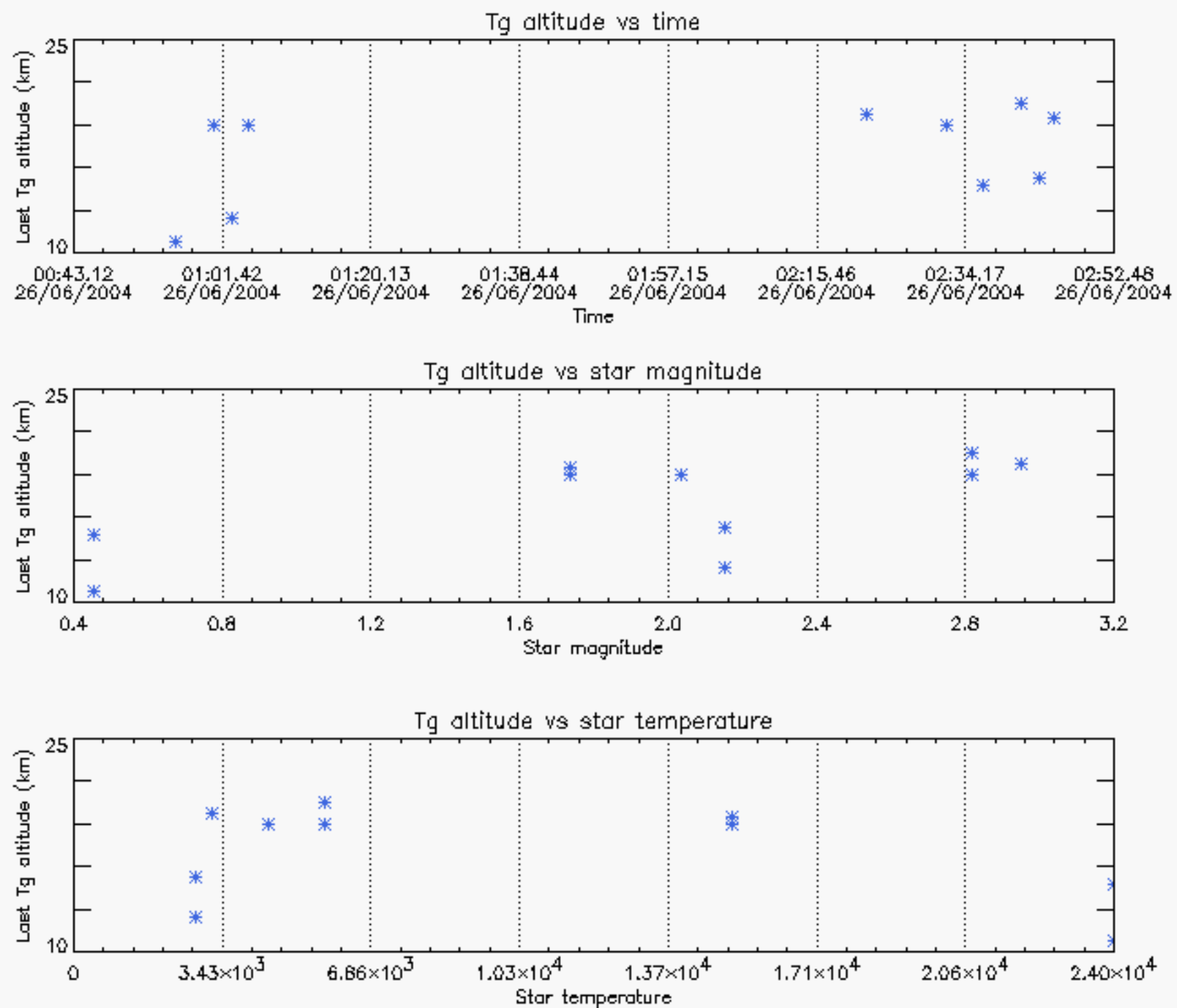
Percentage of star falling outside central band per profile



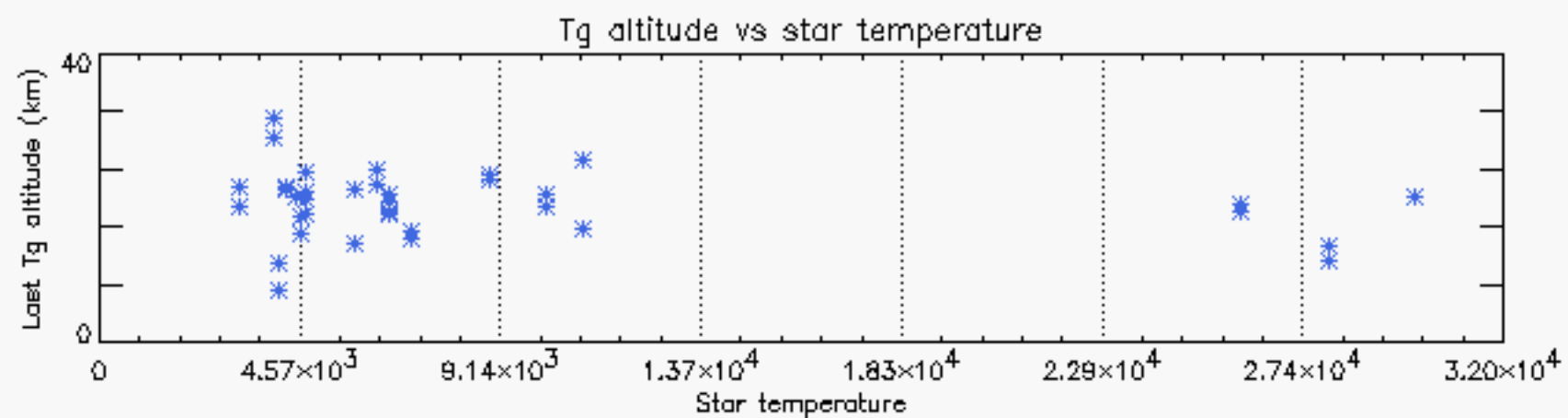
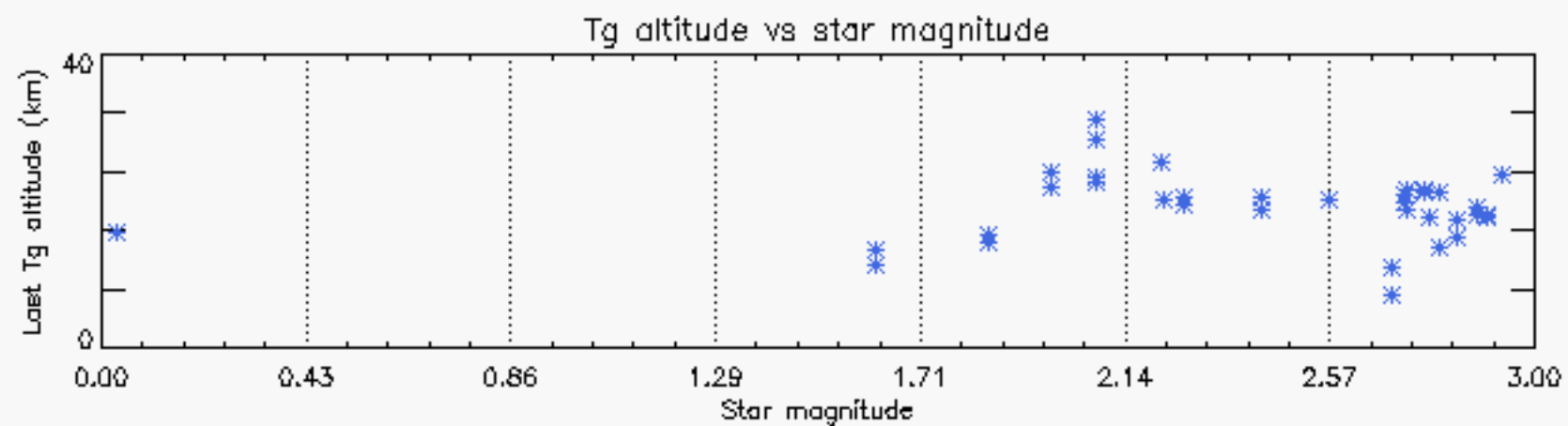
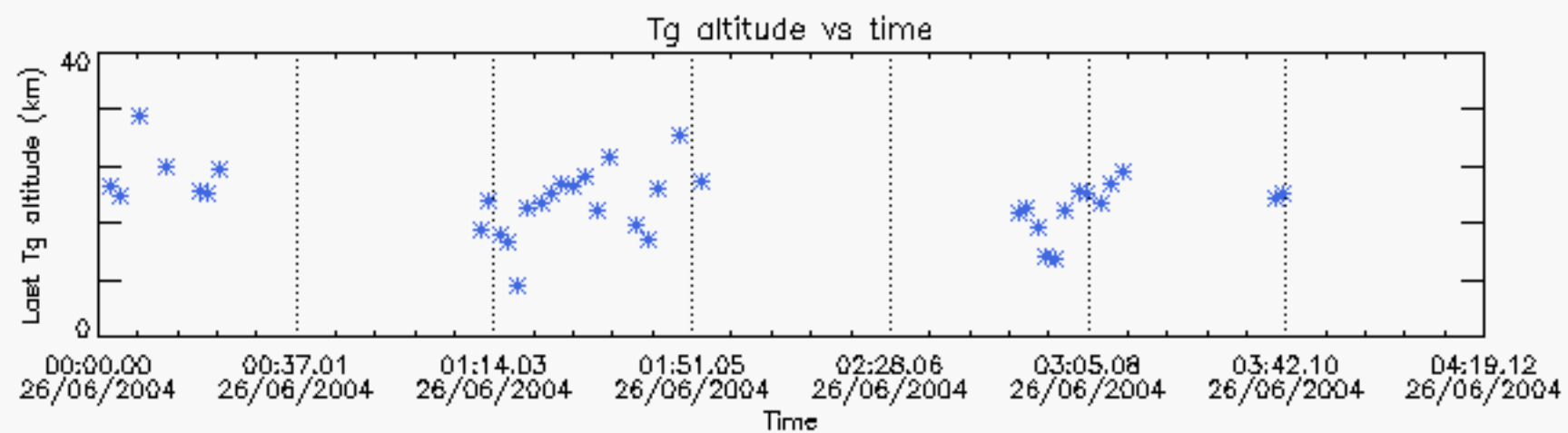
Percentage of saturation errors per profile



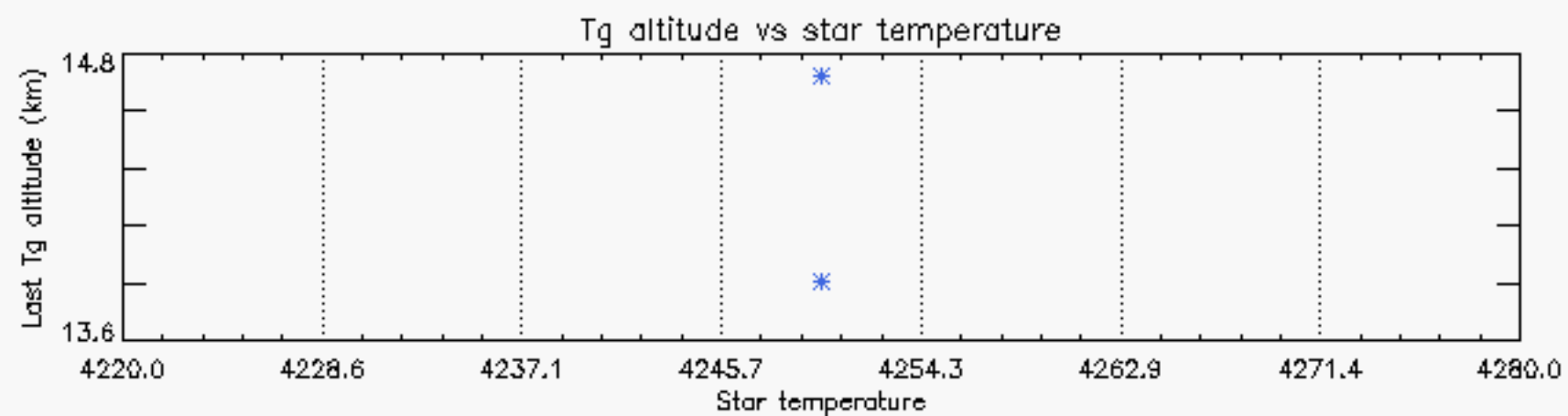
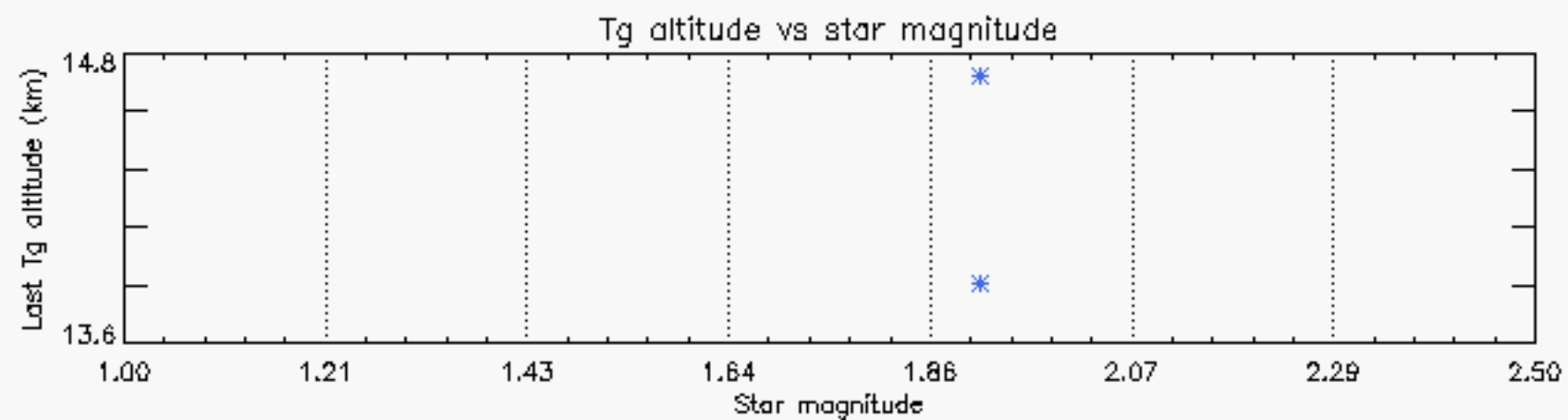
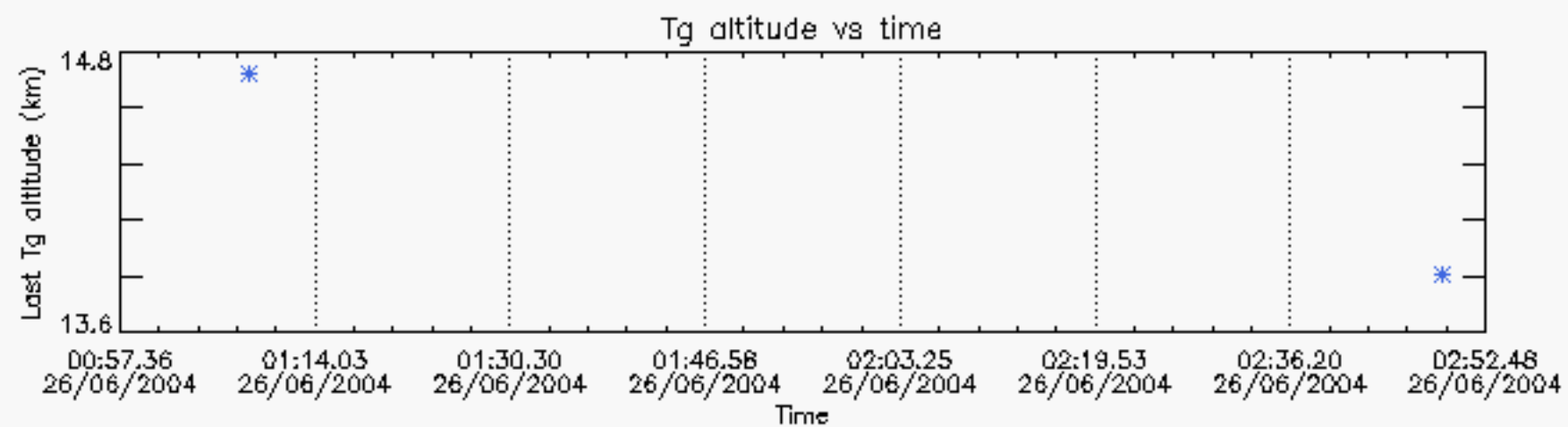
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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24;	-49.4;	17-JUN-2004	02:17:34;	Dark	;	53.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	106;	0;	12009
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34;	1435.1;	17-JUN-2004	02:42:18;	Bright;	55.5;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	111;	0;	12010	
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7;	-3667.4;	17-JUN-2004	02:57:52;	Bright;	39.0;	67;	5Alp	CrB	;	2.22;	11000;	occ;	78;	0;	12010	
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16;	-1974.9;	17-JUN-2004	03:26:04;	Bright;	37.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	74;	0;	12010	
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19;	-1412.0;	17-JUN-2004	03:35:27;	Dark	;	54.0;	50;	13Alp	Ari	;	2.01;	4250;	occ;	108;	0;	12010
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22;	2756.8;	19-JUN-2004	02:01:06;	Bright;	;	48.5;	5;	3Alp	Lyr	;	0.03;	11000;occ;	97;	0;	12038
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22;	-22.7;	21-JUN-2004	11:55:44;	Dark	;	9;	Alp Eri	;	0.45;	24000;occ;	79;	0;	12072
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