

# GOMOS Daily Report 30-APR-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	04MAY2004 12:18:07
Data source version	GOMOS/4.02
Start time of products	30-APR-2004 (30APR2004 00:00:00)
Stop time of products	01-MAY-2004 (01MAY2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	49
Nb of prods with errors	0

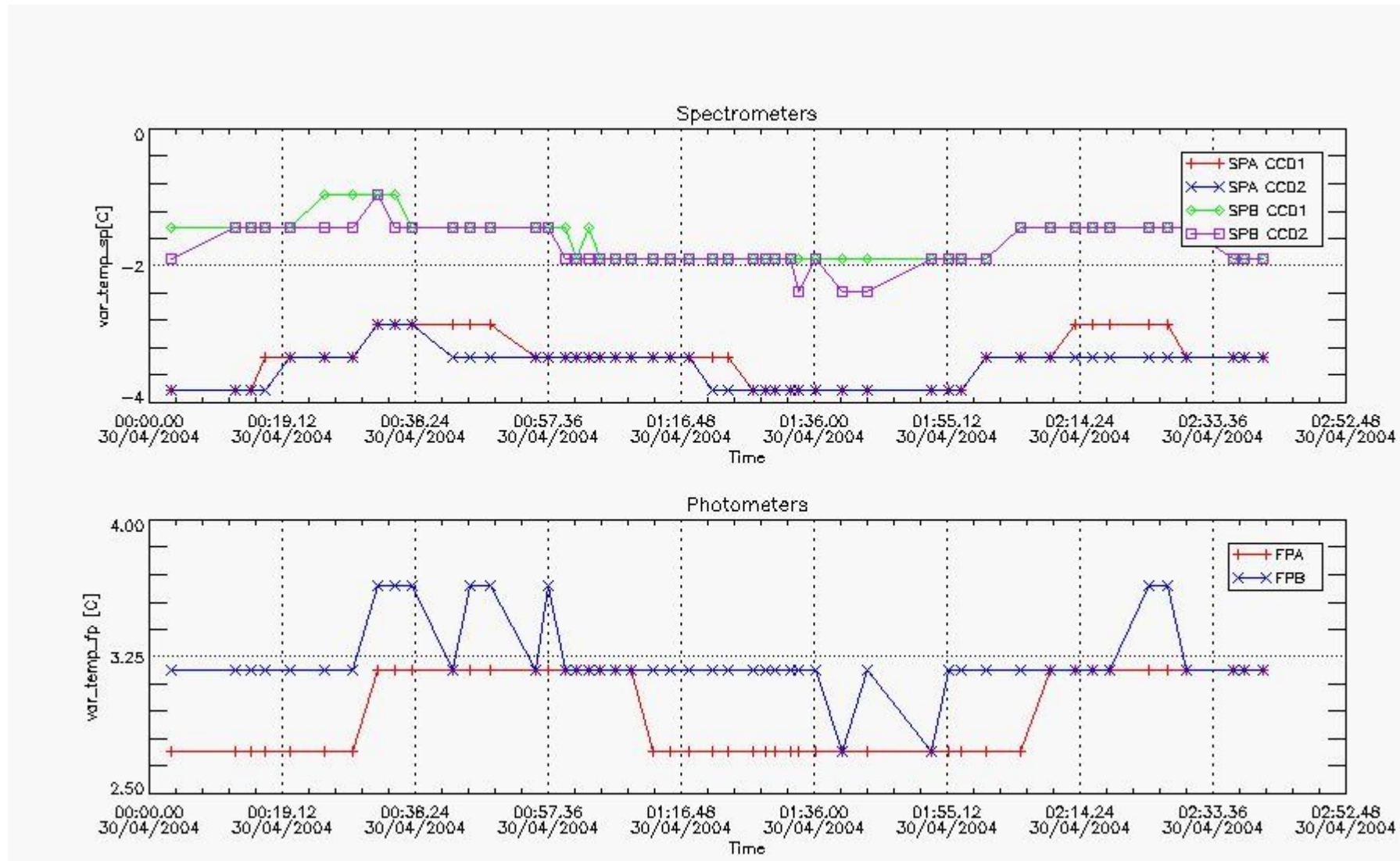
## 2. Summary of products arrived in PCF

### 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_1PNPDE20040430_000304_000000402026_00245_11321_0014.N1	30-APR-2004 00:03:04	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	11321	No
GOM_TRA_1PNPDE20040430_001221_000000372026_00245_11321_0015.N1	30-APR-2004 00:12:21	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	11321	No
GOM_TRA_1PNPDE20040430_001446_000000592026_00245_11321_0016.N1	30-APR-2004 00:14:46	Bright	59.000	19	50Alp Cyg	1.2460	10500.	118	11321	No
GOM_TRA_1PNPDE20040430_001643_000000732026_00245_11321_0017.N1	30-APR-2004 00:16:43	Twilight	72.500	66	37Gam Cyg	2.2080	5900.0	145	11321	No
GOM_TRA_1PNPDE20040430_002015_000000822026_00245_11321_0018.N1	30-APR-2004 00:20:15	Twilight	81.500	92	53Eps Cyg	2.5000	4500.0	163	11321	No
GOM_TRA_1PNPDE20040430_002512_000000502026_00245_11321_0019.N1	30-APR-2004 00:25:12	Twilight	49.500	90	54Alp Peg	2.4870	11000.	99	11321	No
GOM_TRA_1PNPDE20040430_002927_000000662026_00245_11321_0020.N1	30-APR-2004 00:29:27	Dark	66.000	61	8Eps Peg	2.1000	3900.0	132	11321	No
GOM_TRA_1PNPDE20040430_003305_000000442026_00245_11321_0021.N1	30-APR-2004 00:33:05	Dark	44.000	52	16Bet Cet	2.0370	4500.0	88	11321	No
GOM_TRA_1PNPDE20040430_003532_000000622026_00245_11321_0022.N1	30-APR-2004 00:35:32	Dark	61.500	154	22Bet Aqr	2.8990	5700.0	123	11321	No
GOM_TRA_1PNPDE20040430_003759_000000482026_00245_11321_0023.N1	30-APR-2004 00:37:59	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	11321	No
GOM_TRA_1PNPDE20040430_004344_000000432026_00245_11321_0024.N1	30-APR-2004 00:43:44	Dark	43.000	31	Alp Gru	1.7340	15200.	86	11321	No
GOM_TRA_1PNPDE20040430_004624_000000412026_00246_11322_0025.N1	30-APR-2004 00:46:24	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11322	No
GOM_TRA_1PNPDE20040430_004912_000000432026_00246_11322_0026.N1	30-APR-2004 00:49:12	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11322	No
GOM_TRA_1PNPDE20040430_005549_000000532026_00246_11322_0027.N1	30-APR-2004 00:55:49	Dark	53.000	43	Alp TrA	1.9100	4250.0	106	11322	No
GOM_TRA_1PNPDE20040430_005734_000000732026_00246_11322_0028.N1	30-APR-2004 00:57:34	Dark	73.000	38	20Eps Sgr	1.8360	11000.	146	11322	No
GOM_TRA_1PNPDE20040430_010007_000000532026_00246_11322_0029.N1	30-APR-2004 01:00:07	Twilight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11322	No
GOM_TRA_1PNPDE20040430_010142_000000452026_00246_11322_0030.N1	30-APR-2004 01:01:42	Twilight	44.500	20	Bet Cru	1.2530	30000.	89	11322	No
GOM_TRA_1PNPDE20040430_010330_000000452026_00246_11322_0031.N1	30-APR-2004 01:03:30	Bright	45.000	78	Alp Lup	2.3040	28000.	90	11322	No
GOM_TRA_1PNPDE20040430_010505_000000412026_00246_11322_0032.N1	30-APR-2004 01:05:05	Bright	41.000	81	Eta Cen	2.3560	28000.	82	11322	No
GOM_TRA_1PNPDE20040430_010719_000000712026_00246_11322_0033.N1	30-APR-2004 01:07:19	Bright	70.500	16	21Alp Sco	1.0200	3000.0	141	11322	No
GOM_TRA_1PNPDE20040430_010936_000000632026_00246_11322_0034.N1	30-APR-2004 01:09:36	Bright	62.500	80	7Del Sco	2.3160	30000.	125	11322	No
GOM_TRA_1PNPDE20040430_011247_000000452026_00246_11322_0001.N1	30-APR-2004 01:12:47	Bright	45.000	122	9Alp2Lib	2.7470	9700.0	90	11322	No
GOM_TRA_1PNPDE20040430_011506_000000522026_00246_11322_0002.N1	30-APR-2004 01:15:06	Bright	51.500	104	27Bet Lib	2.6140	13100.	103	11322	No
GOM_TRA_1PNPDE20040430_011752_000000392026_00246_11322_0003.N1	30-APR-2004 01:17:52	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11322	No
GOM_TRA_1PNPDE20040430_012112_000000392026_00246_11322_0004.N1	30-APR-2004 01:21:12	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	11322	No
GOM_TRA_1PNPDE20040430_012332_000000422026_00246_11322_0005.N1	30-APR-2004 01:23:32	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	11322	No
GOM_TRA_1PNPDE20040430_012717_000000512026_00246_11322_0006.N1	30-APR-2004 01:27:17	Bright	50.500	83		2.3780	11000.	101	11322	No
GOM_TRA_1PNPDE20040430_012857_000000372026_00246_11322_0007.N1	30-APR-2004 01:28:57	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	11322	No
GOM_TRA_1PNPDE20040430_013018_000000432026_00246_11322_0008.N1	30-APR-2004 01:30:18	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	11322	No
GOM_TRA_1PNPDE20040430_013230_000000402026_00246_11322_0009.N1	30-APR-2004 01:32:30	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	11322	No
GOM_TRA_1PNPDE20040430_013350_000000362026_00246_11322_0010.N1	30-APR-2004 01:33:50	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	11322	No
GOM_TRA_1PNPDE20040430_013611_000000402026_00246_11322_0011.N1	30-APR-2004 01:36:11	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	11322	No
GOM_TRA_1PNPDE20040430_013958_000000412026_00246_11322_0012.N1	30-APR-2004 01:39:58	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11322	No
GOM_TRA_1PNPDE20040430_014342_000000372026_00246_11322_0013.N1	30-APR-2004 01:43:42	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11322	No
GOM_TRA_1PNPDE20040430_015257_000000362026_00246_11322_0014.N1	30-APR-2004 01:52:57	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	11322	No
GOM_TRA_1PNPDE20040430_015522_000000592026_00246_11322_0015.N1	30-APR-2004 01:55:22	Bright	58.500	19	50Alp Cyg	1.2460	10500.	117	11322	No
GOM_TRA_1PNPDE20040430_015719_000000752026_00246_11322_0016.N1	30-APR-2004 01:57:19	Twilight	74.500	66	37Gam Cyg	2.2080	5900.0	149	11322	No
GOM_TRA_1PNPDE20040430_020051_000000852026_00246_11322_0017.N1	30-APR-2004 02:00:51	Twilight	84.500	92	53Eps Cyg	2.5000	4500.0	169	11322	No
GOM_TRA_1PNPDE20040430_020549_000000462026_00246_11322_0018.N1	30-APR-2004 02:05:49	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	11322	No
GOM_TRA_1PNPDE20040430_021003_000000712026_00246_11322_0019.N1	30-APR-2004 02:10:03	Dark	70.500	61	8Eps Peg	2.1000	3900.0	141	11322	No
GOM_TRA_1PNPDE20040430_021341_000000432026_00246_11322_0020.N1	30-APR-2004 02:13:41	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	11322	No
GOM_TRA_1PNPDE20040430_021609_000000652026_00246_11322_0021.N1	30-APR-2004 02:16:09	Dark	65.000	154	22Bet Aqr	2.8990	5700.0	130	11322	No
GOM_TRA_1PNPDE20040430_021835_000000462026_00246_11322_0022.N1	30-APR-2004 02:18:35	Dark	46.000	18	24Alp PsA	1.1660	9700.0	92	11322	No
GOM_TRA_1PNPDE20040430_022421_000000432026_00246_11322_0023.N1	30-APR-2004 02:24:21	Dark	42.500	31	Alp Gru	1.7340	15200.	85	11322	No
GOM_TRA_1PNPDE20040430_022700_000000412026_00247_11323_0024.N1	30-APR-2004 02:27:00	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11323	No
GOM_TRA_1PNPDE20040430_022947_000000442026_00247_11323_0025.N1	30-APR-2004 02:29:47	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11323	No
GOM_TRA_1PNPDE20040430_023625_000000532026_00247_11323_0026.N1	30-APR-2004 02:36:25	Dark	53.000	43	Alp TrA	1.9100	4250.0	106	11323	No
GOM_TRA_1PNPDE20040430_023811_000000702026_00247_11323_0027.N1	30-APR-2004 02:38:11	Dark	70.000	38	20Eps Sgr	1.8360	11000.	140	11323	No
GOM_TRA_1PNPDE20040430_024043_000000472026_00247_11323_0028.N1	30-APR-2004 02:40:43	Twilight	47.000	4	Alp1Cen	-0.010000	5800.0	94	11323	No

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



### 4. Overview of dark signal processing per product

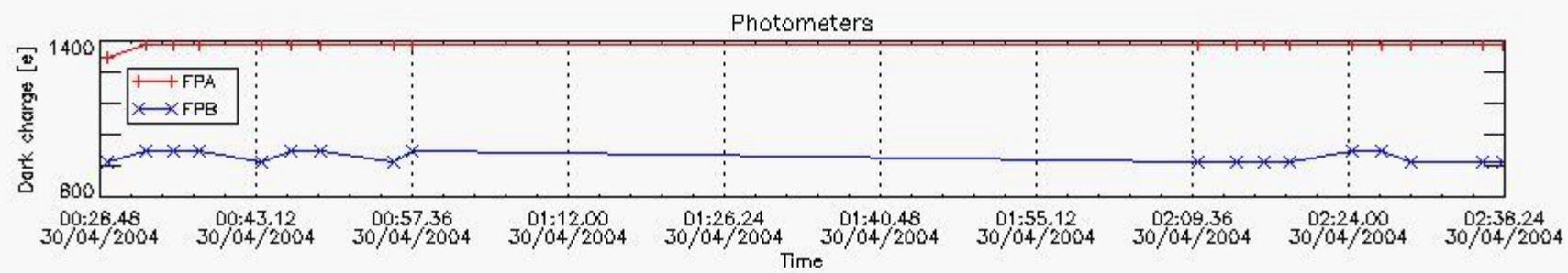
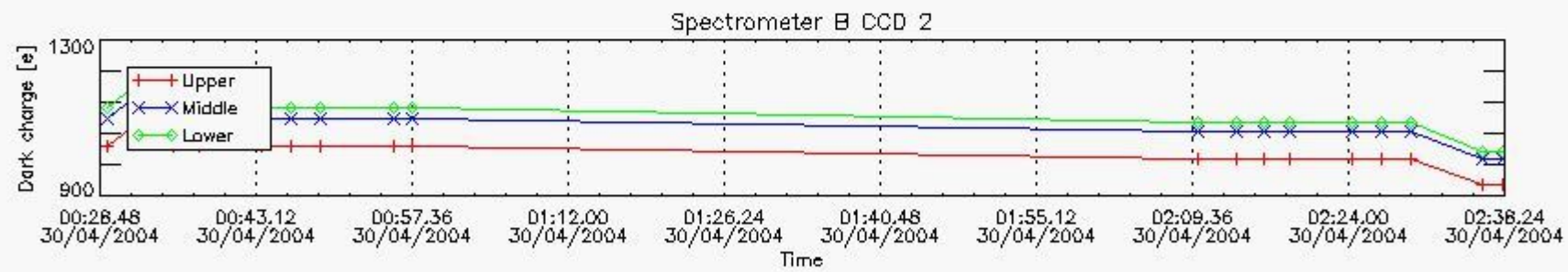
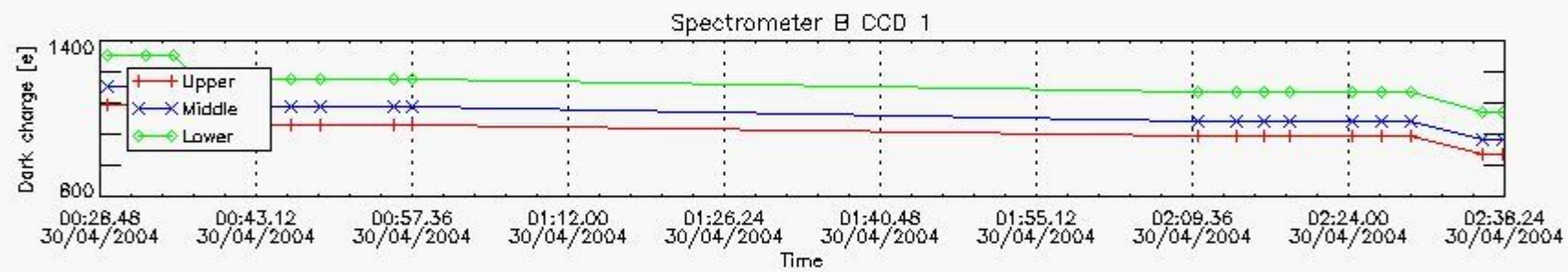
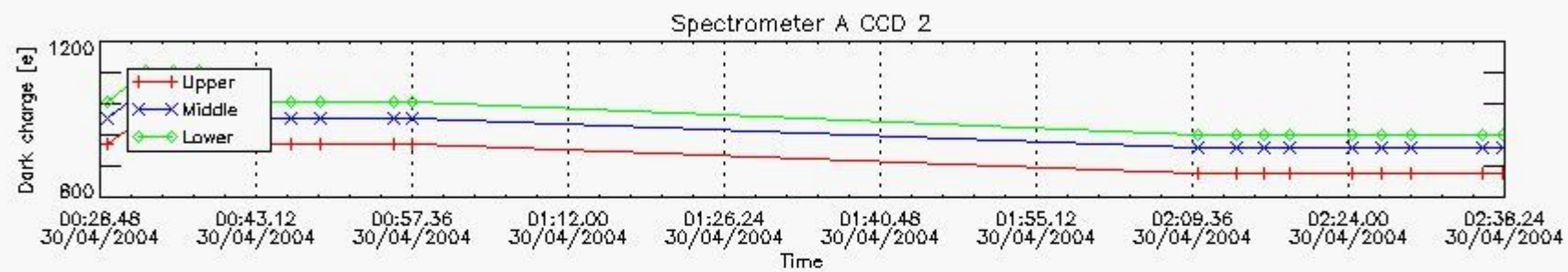
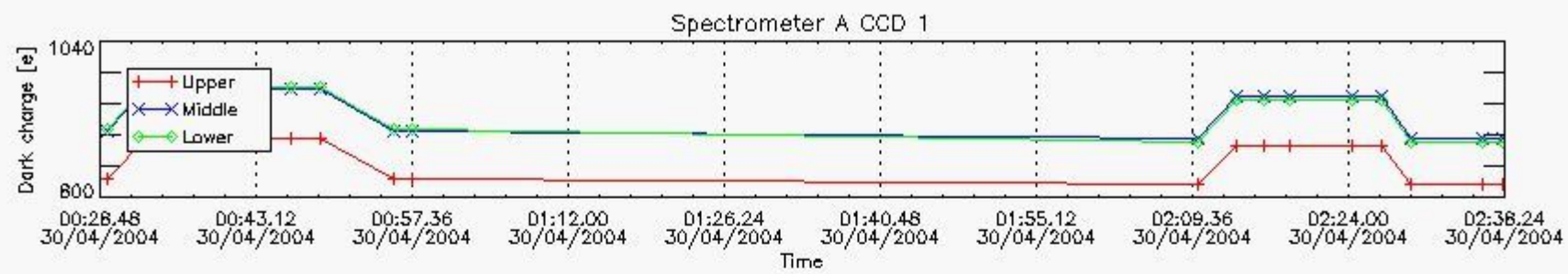
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





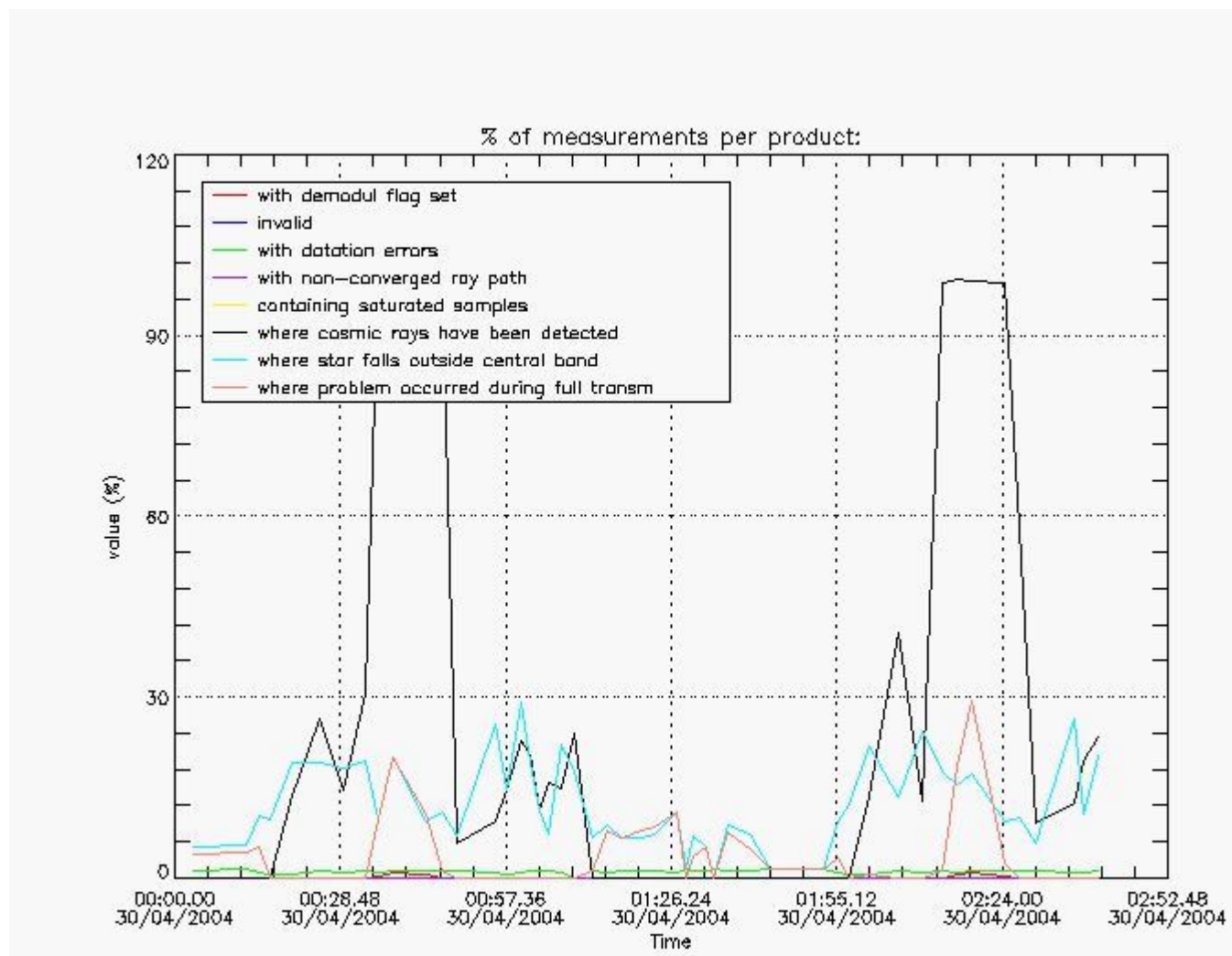
## 5. Demodulation flag and quality information monitoring

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:

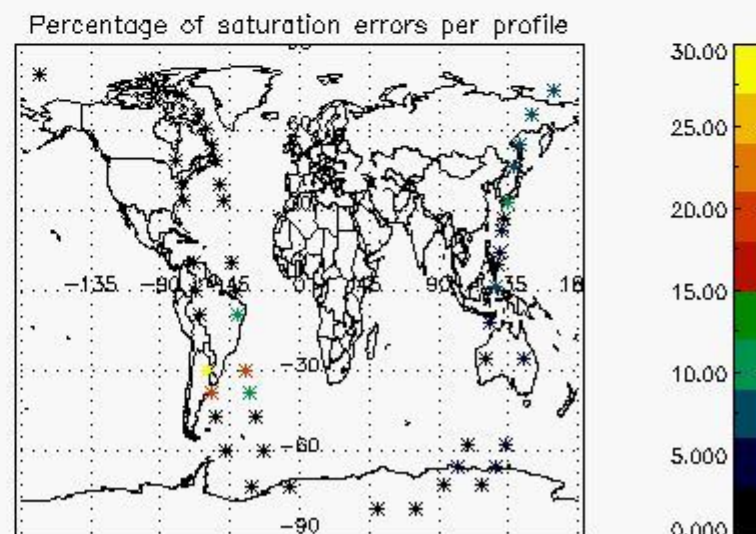
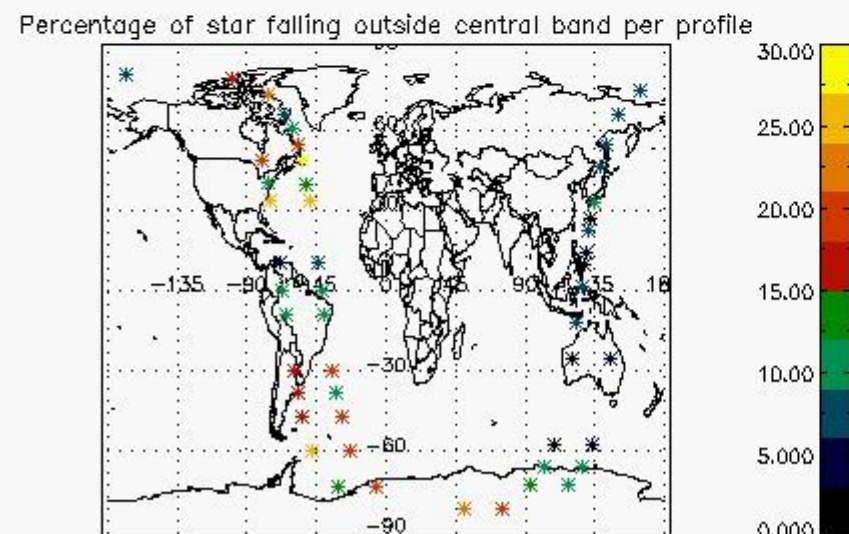
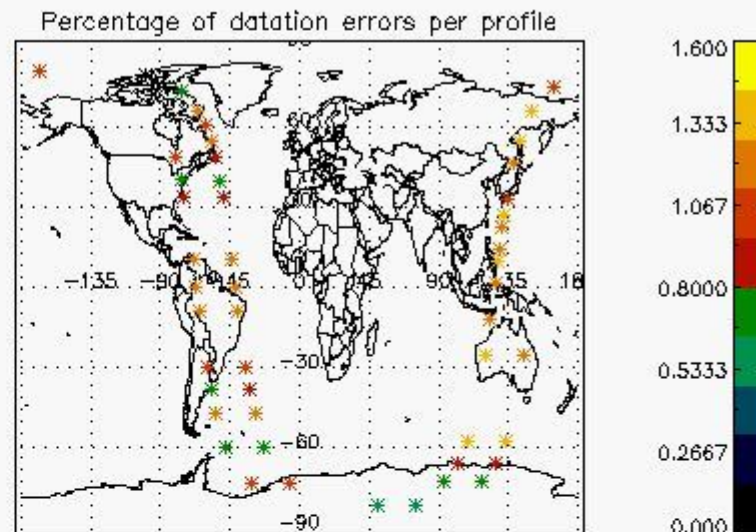
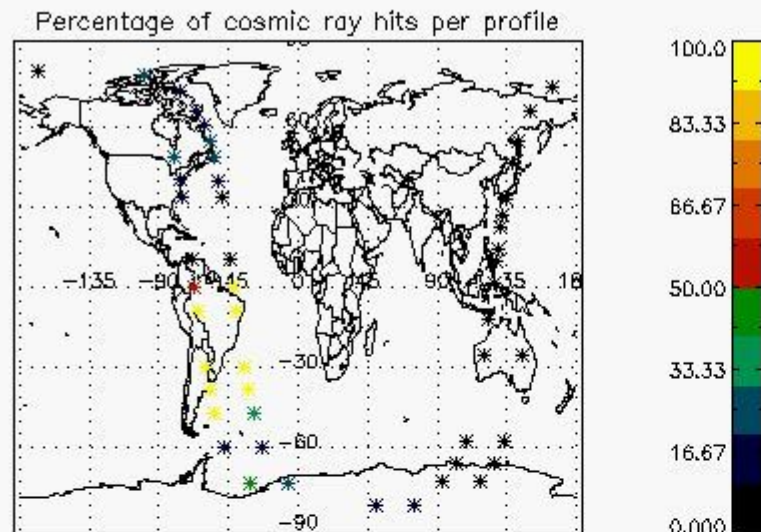
At least one measurement with demodulation flag set:	22.4490 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





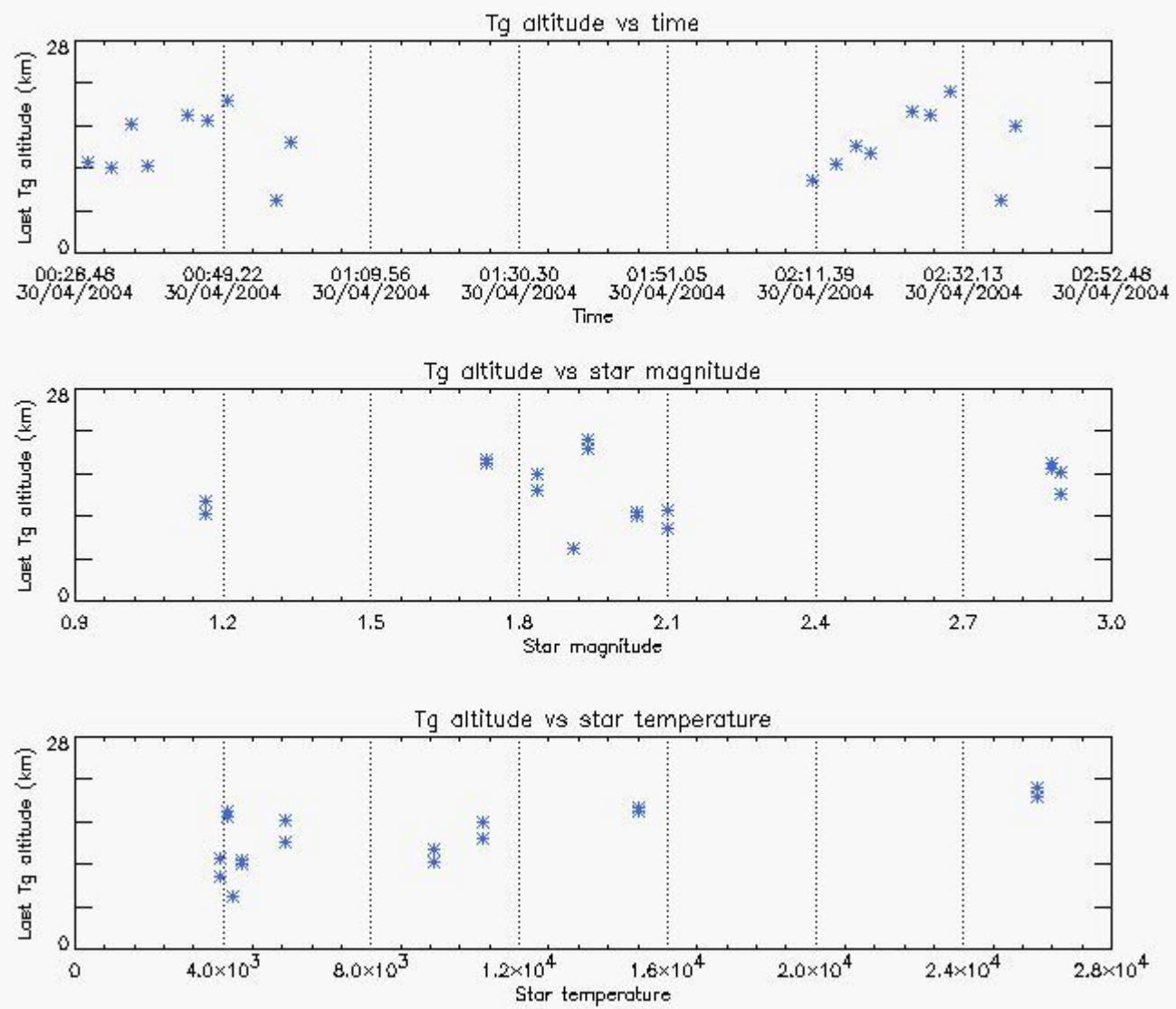
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.394	19.924	12.137
St. deviation:	4.3298	3.7676	3.5981
Maximum:	21.277	26.897	17.697
Minimum:	6.8407	10.820	5.1710
Number of data:	18.000	22.000	9.0000

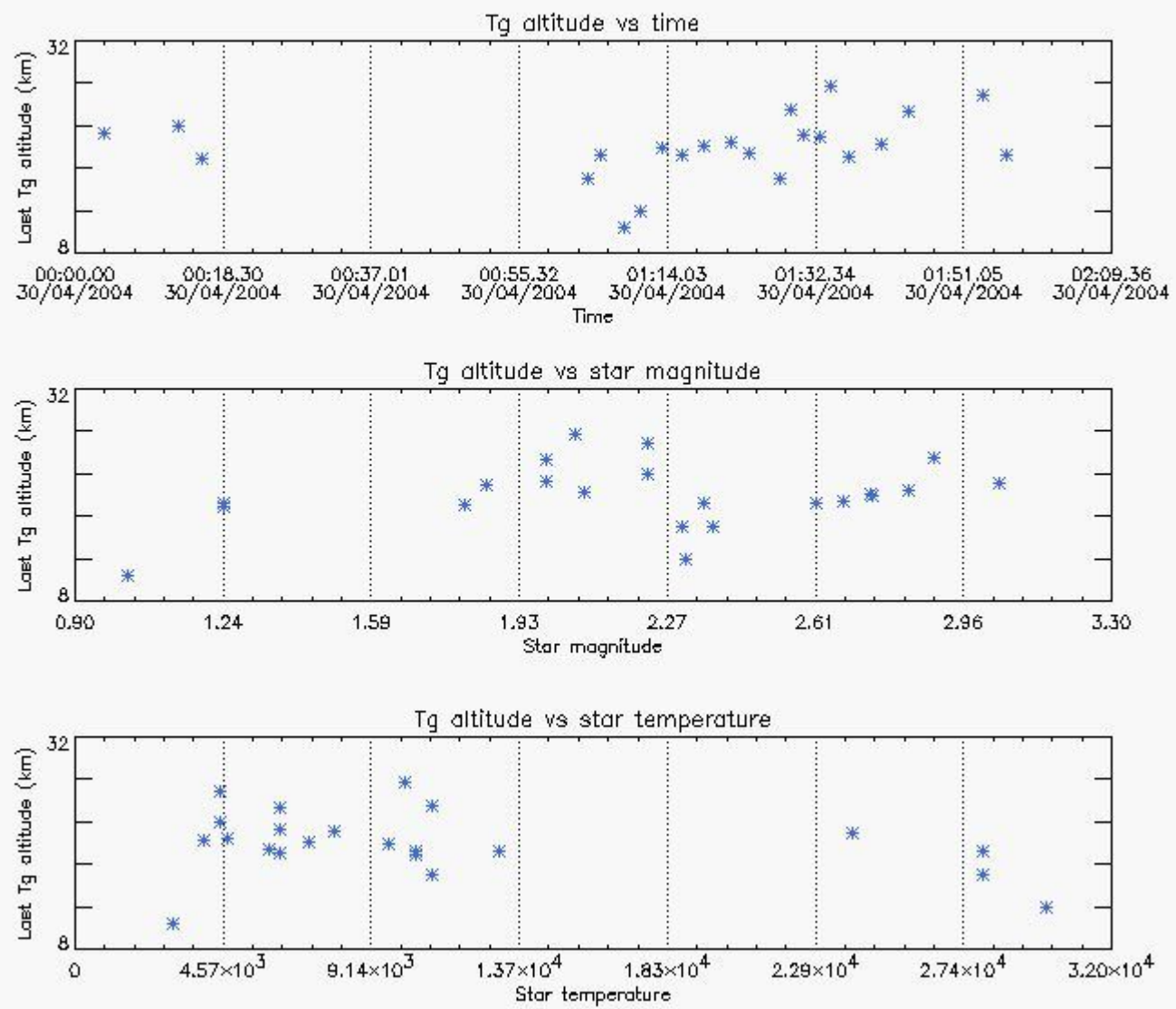
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

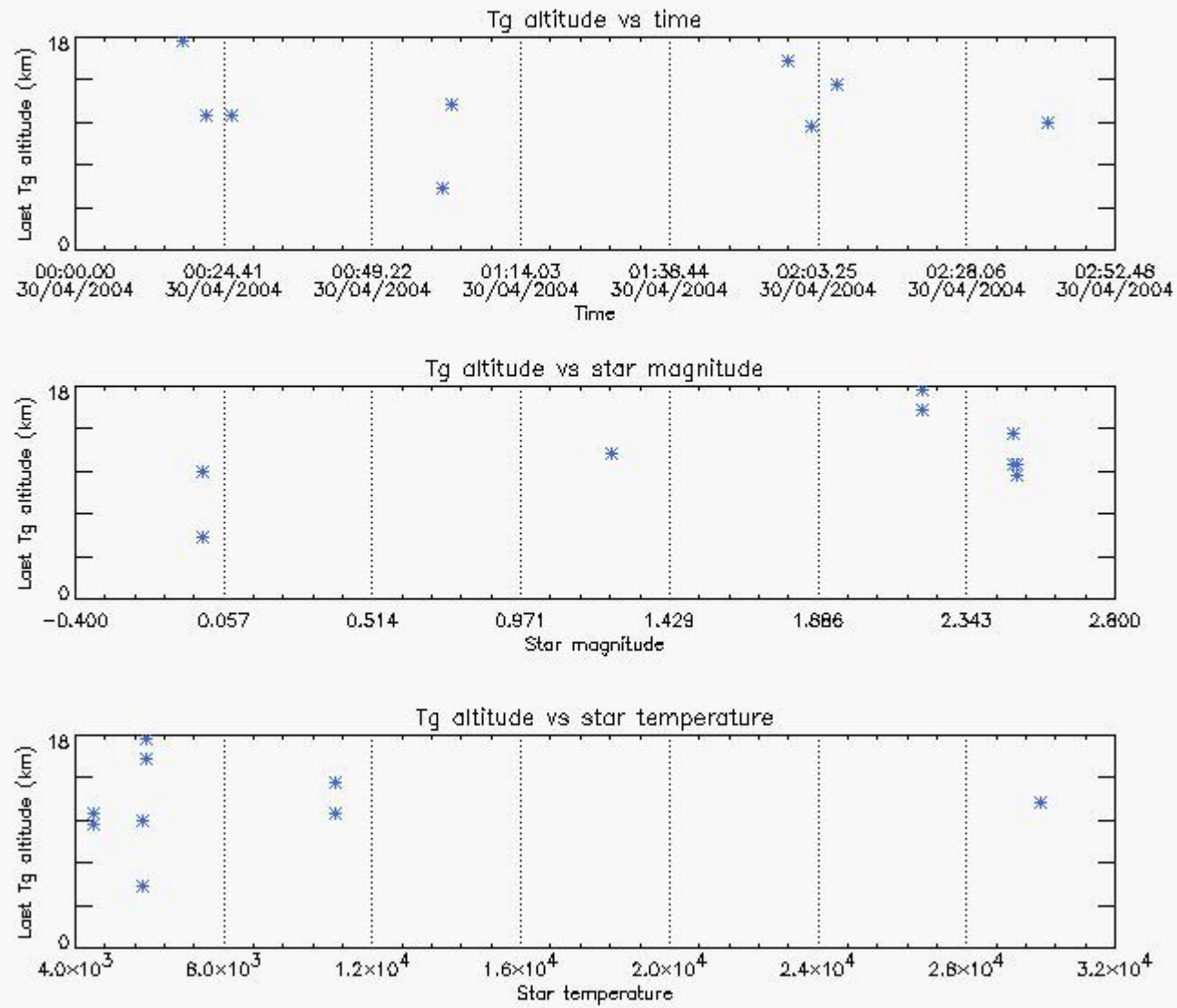
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



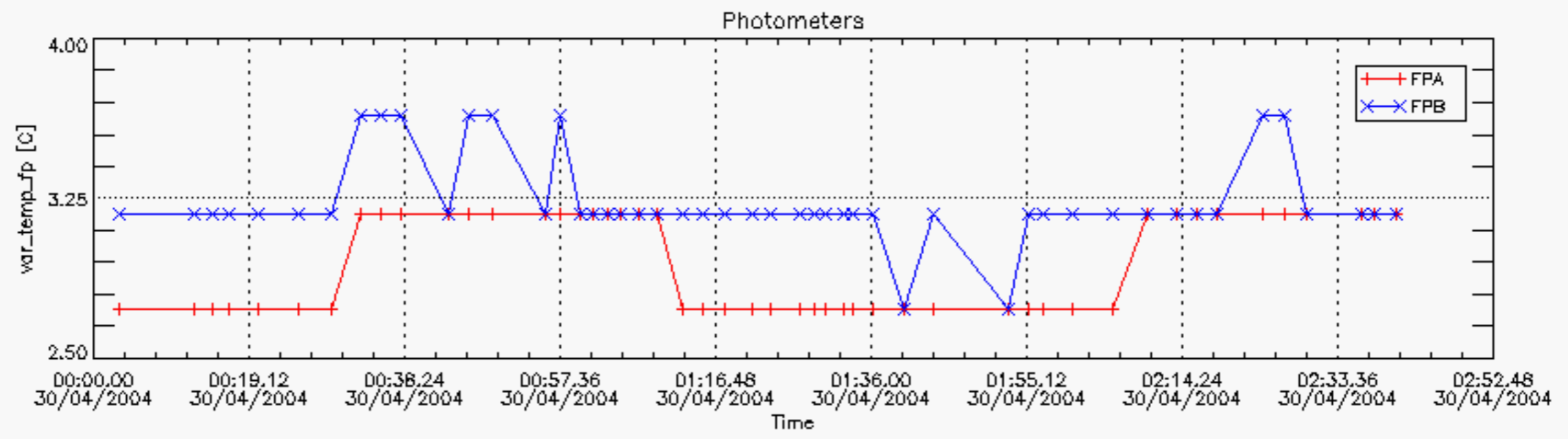
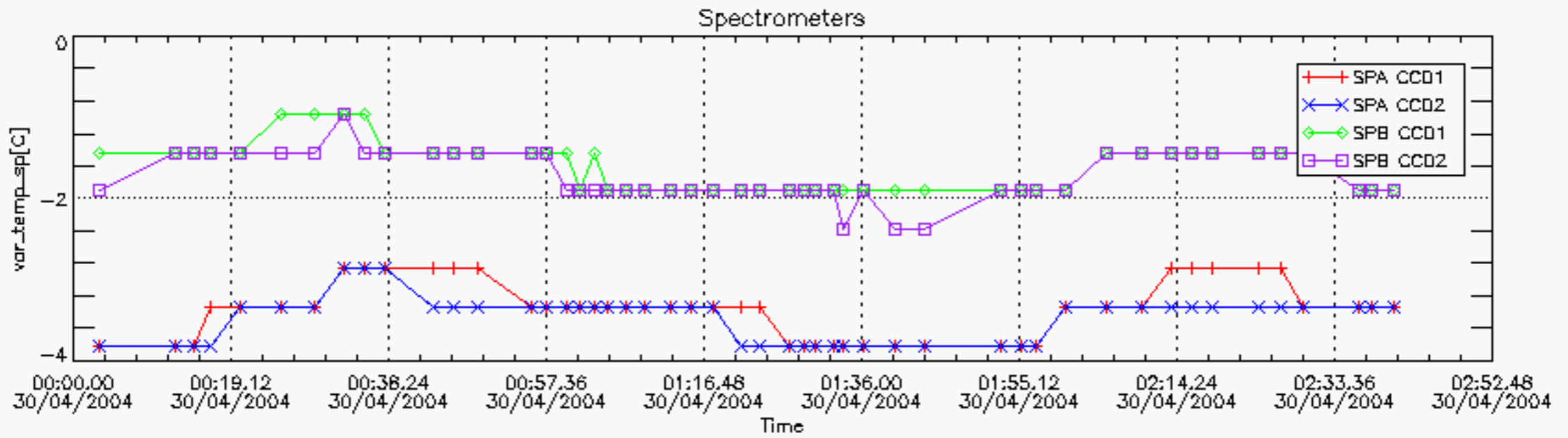
### Tangent altitude at which the star is lost

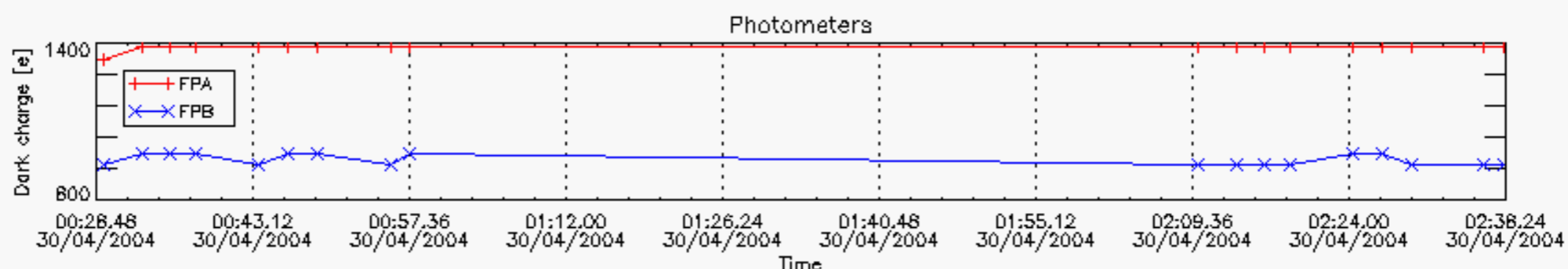
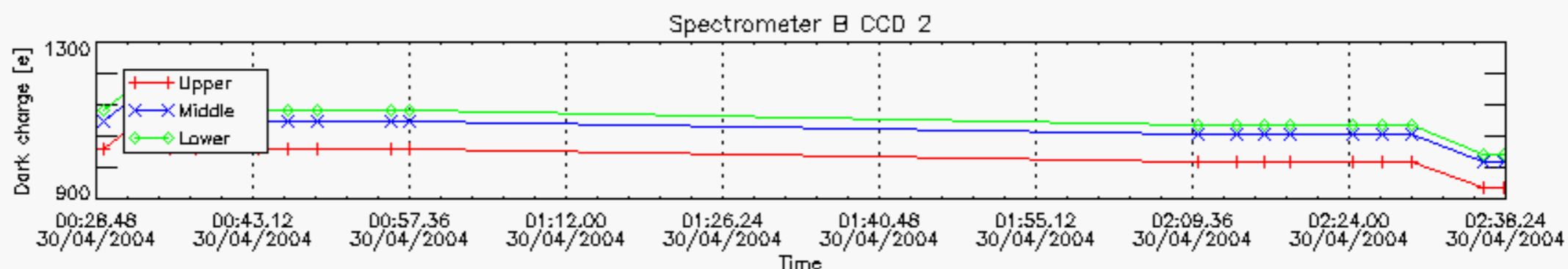
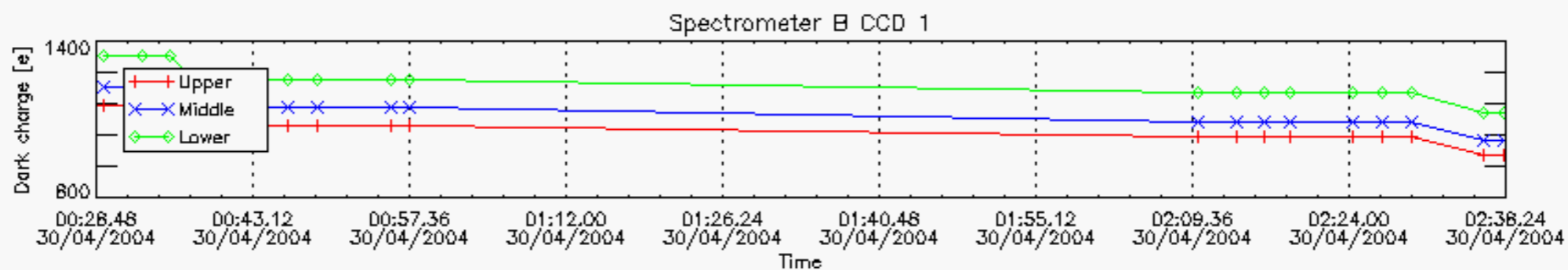
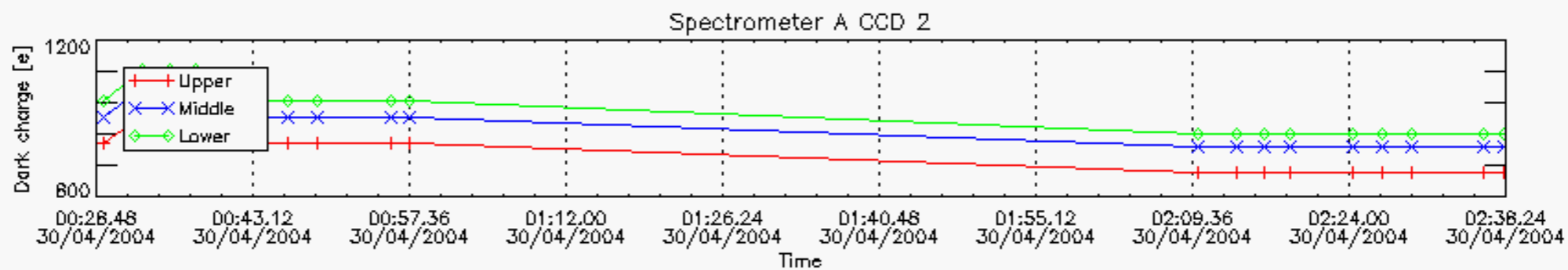
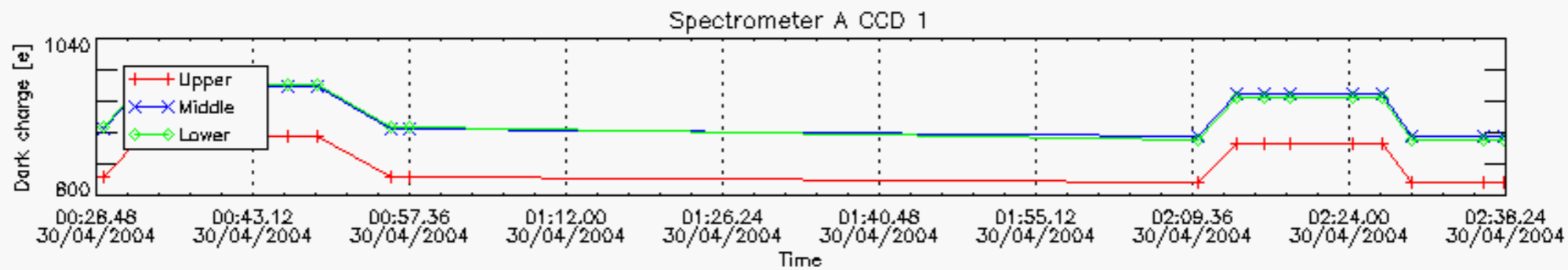


### 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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:	1461.4	1447.6	1461.9	1447.8
St. deviation:	4.1558	4.8380	6.8670	7.5936
Maximum:	1506.0	1615.0	1513.0	1493.0
Minimum:	1450.0	1435.0	1444.0	1440.0
Number of data:	24300.	24300.	26150.	26150.

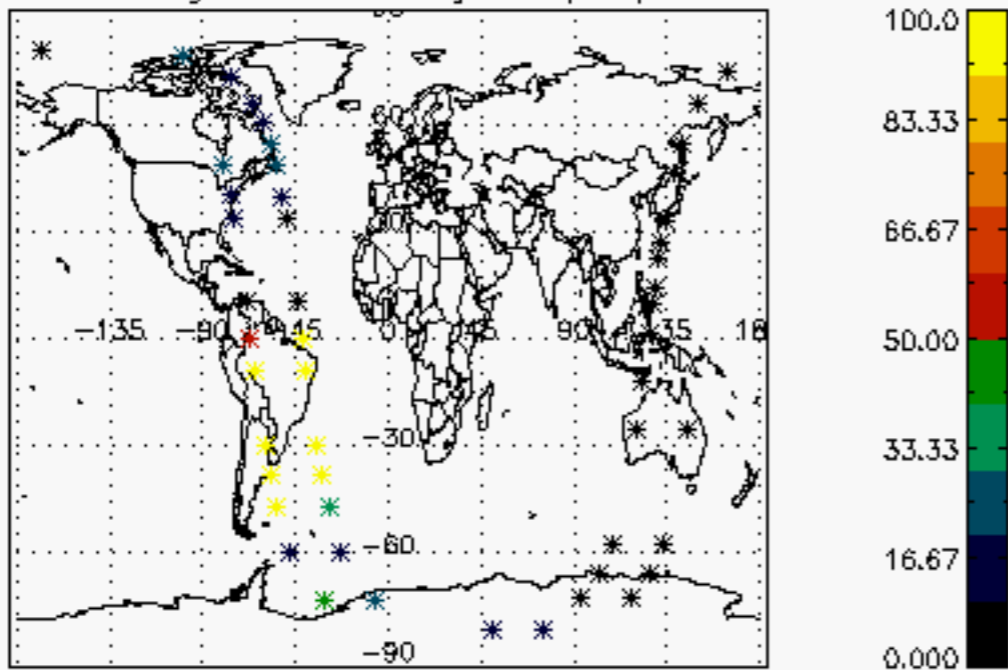




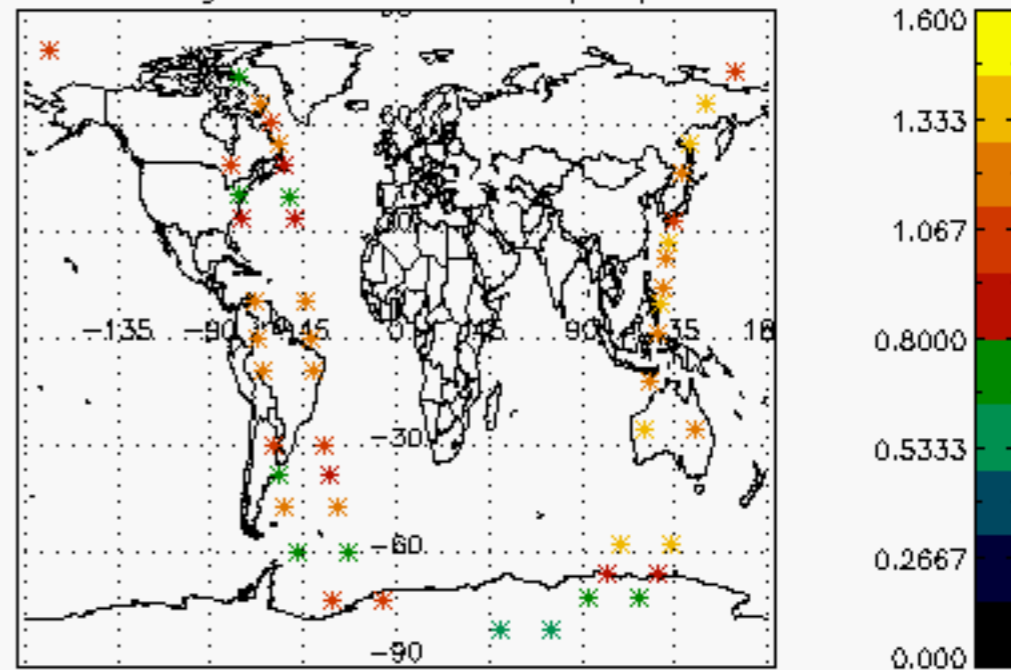




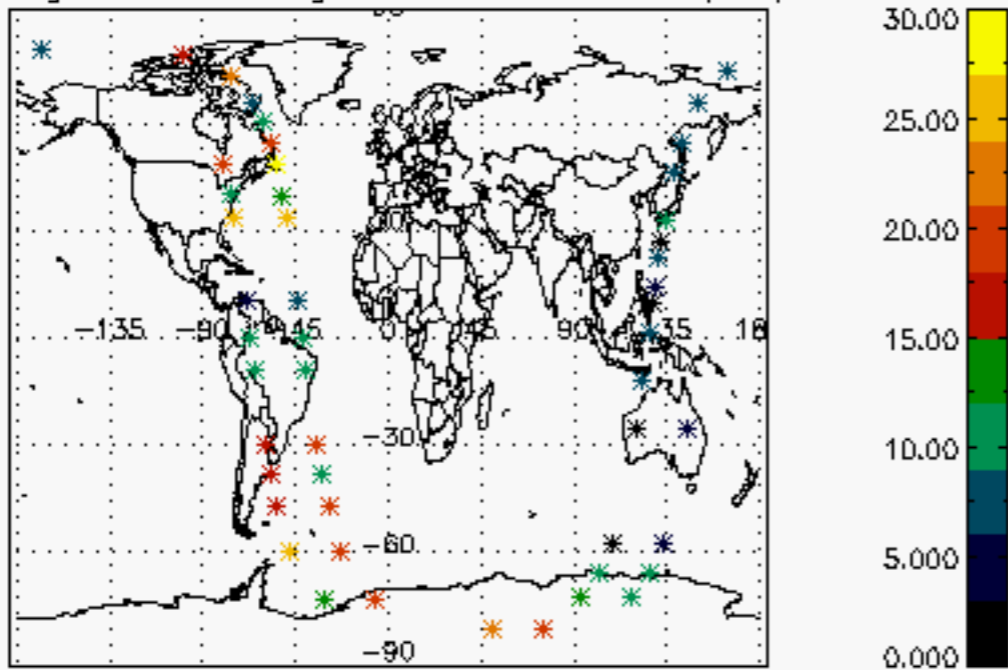
Percentage of cosmic ray hits per profile



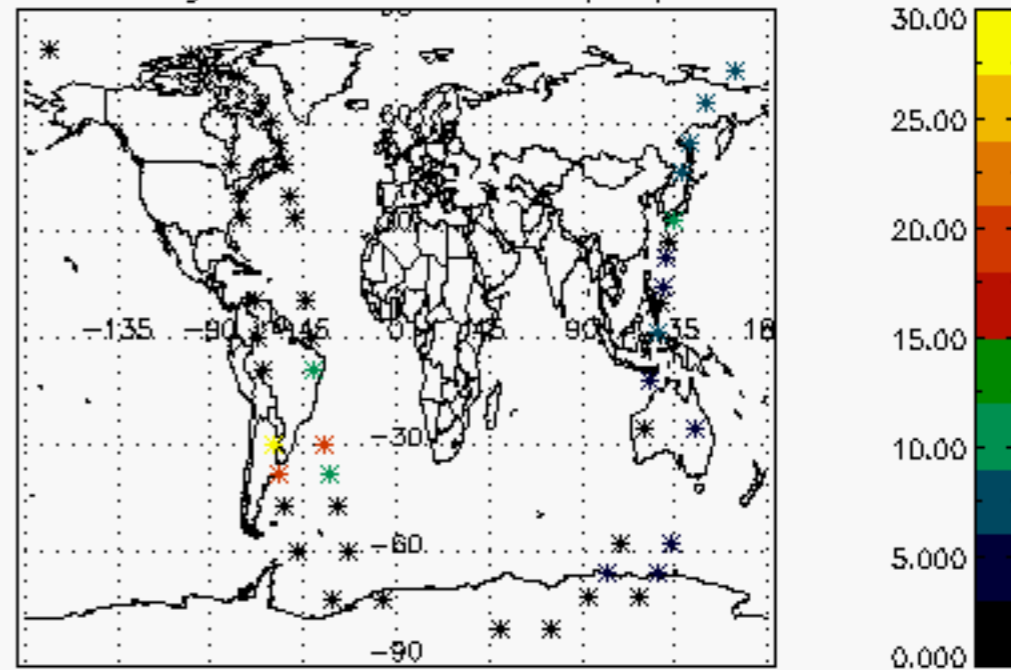
Percentage of datation errors per profile



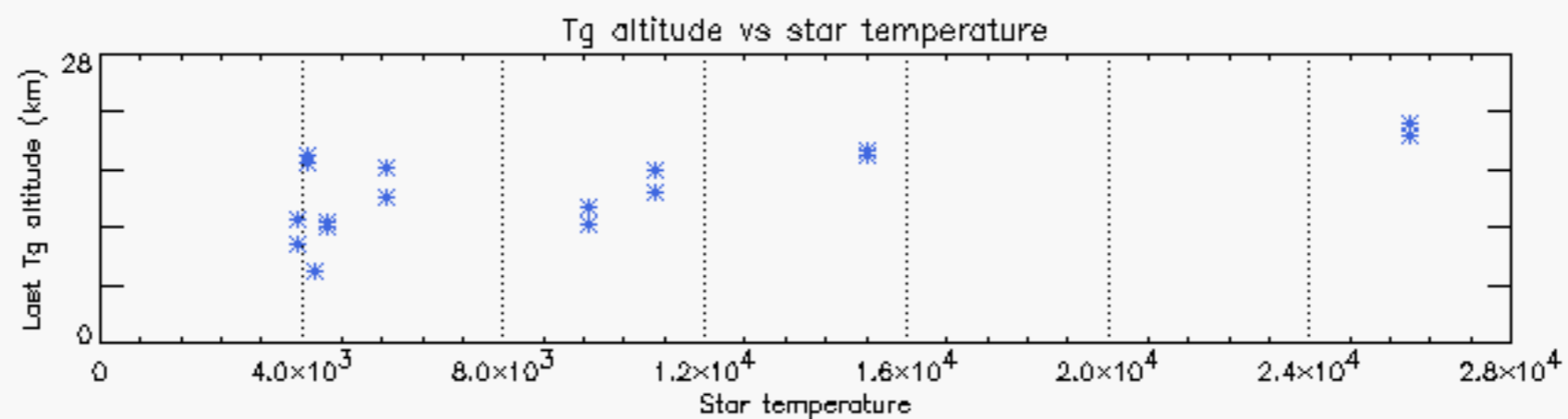
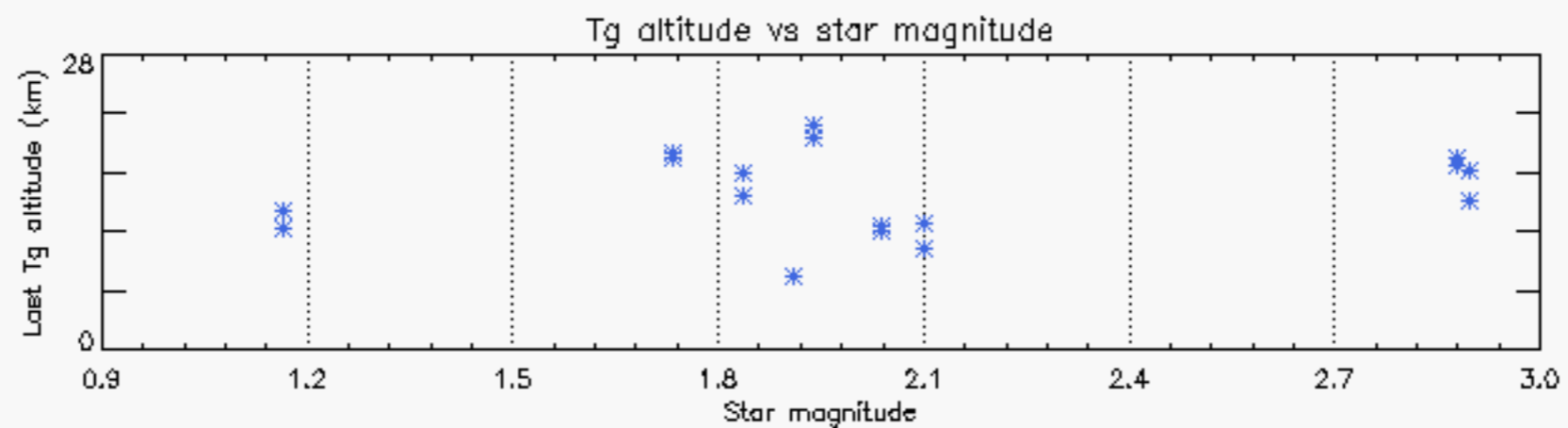
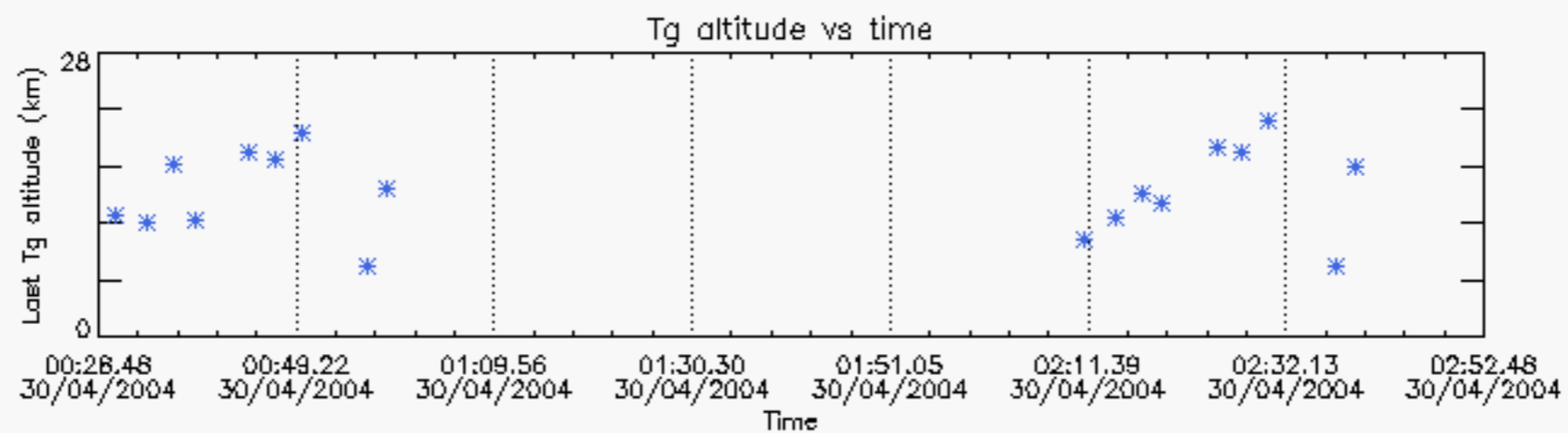
Percentage of star falling outside central band per profile



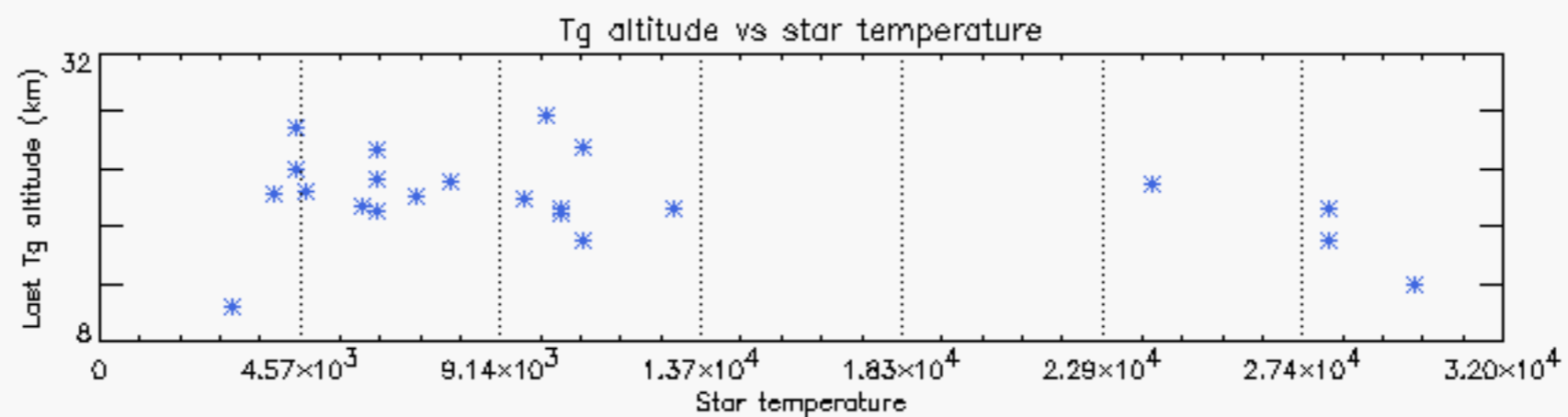
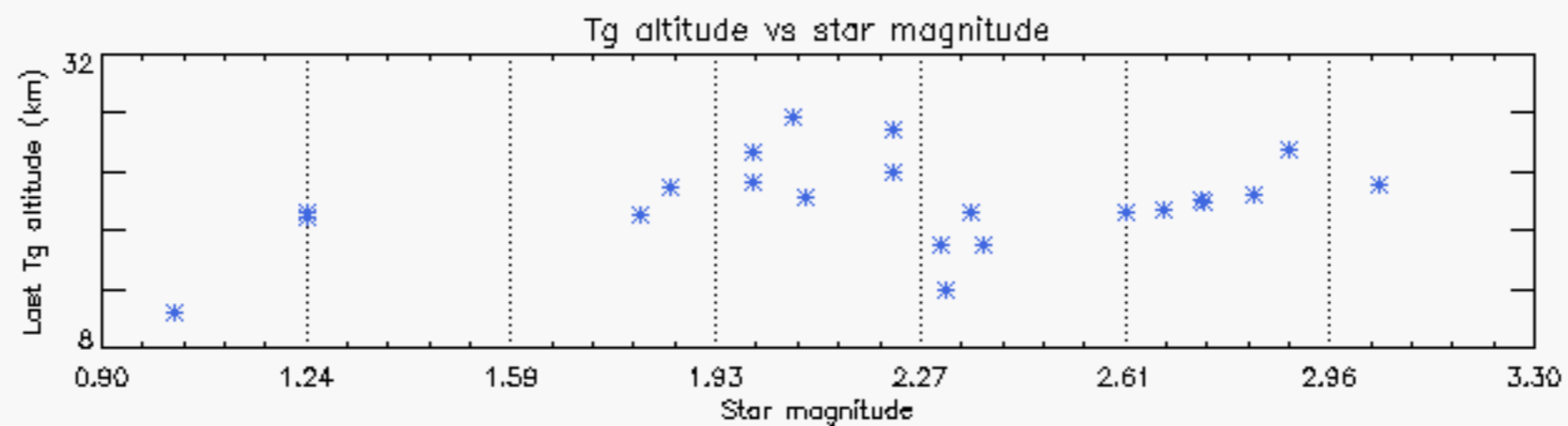
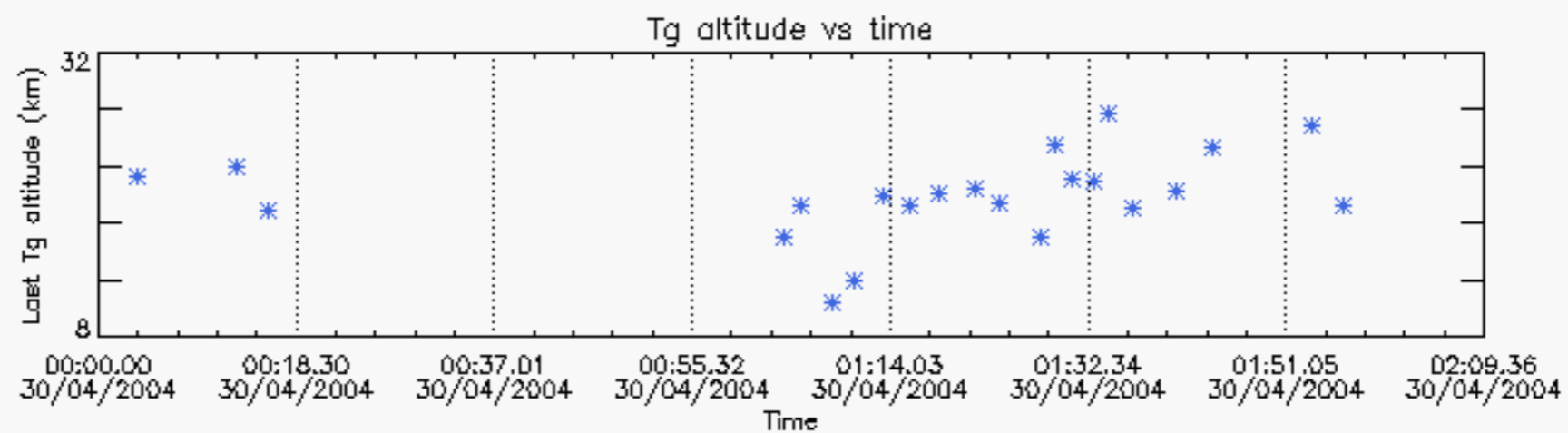
Percentage of saturation errors per profile



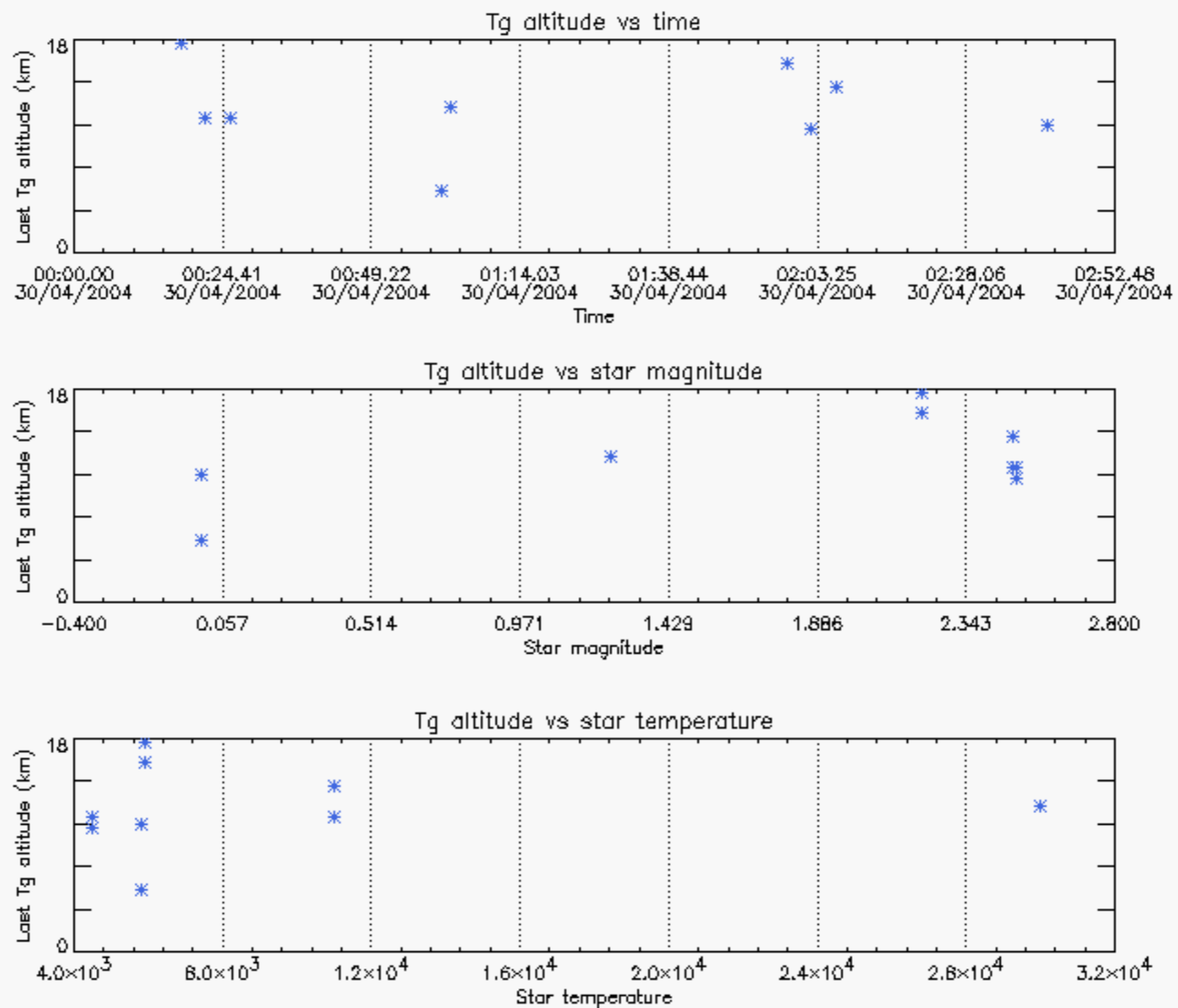
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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1;	-4605.9;	01-APR-2004	01:21:41;	Dark	;	50.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	101;	0;	10907
2;	-4448.9;	01-APR-2004	01:24:18;	Dark	;	48.0;	163;	7Del	Crv	;	2.94;	11000;	occ;	96;	0;	10907
3;	-4349.5;	01-APR-2004	01:25:57;	Dark	;	63.5;	15;	67Alp	Vir	;	0.98;	28000;	occ;	127;	0;	10907
4;	-4154.5;	01-APR-2004	01:29:12;	Bright;		45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10907
5;	-3877.5;	01-APR-2004	01:33:49;	Bright;		40.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	81;	0;	10907
6;	-3781.2;	01-APR-2004	01:35:26;	Bright;		38.5;	96;	68Del	Leo	;	2.56;	9300;	occ;	77;	0;	10907
7;	-3678.3;	01-APR-2004	01:37:09;	Bright;		38.0;	166;	17Eps	Leo	;	2.98;	6000;	occ;	76;	0;	10907
8;	-3559.4;	01-APR-2004	01:39:08;	Bright;		67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10907
9;	-3371.6;	01-APR-2004	01:42:15;	Bright;		37.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	74;	0;	10907
10;	-3190.2;	01-APR-2004	01:45:17;	Bright;		37.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	75;	0;	10907
11;	-3080.2;	01-APR-2004	01:47:07;	Bright;		36.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	72;	0;	10907
12;	-2704.1;	01-APR-2004	01:53:23;	Bright;		45.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	90;	0;	10907
13;	-2598.5;	01-APR-2004	01:55:08;	Bright;		36.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	73;	0;	10907
14;	-2198.5;	01-APR-2004	02:01:48;	Bright;		36.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	73;	0;	10907
15;	-2119.4;	01-APR-2004	02:03:08;	Bright;		39.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	79;	0;	10907
16;	-1838.4;	01-APR-2004	02:07:49;	Bright;		46.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	93;	0;	10907
17;	-1724.3;	01-APR-2004	02:09:43;	Bright;		45.0;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	90;	0;	10907
18;	-1602.9;	01-APR-2004	02:11:44;	Bright;		43.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	87;	0;	10907
19;	-1211.6;	01-APR-2004	02:18:15;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10907
20;	-992.6;	01-APR-2004	02:21:54;	Dark	;	72.0;	11;	53Alp	Aql	;	0.76;	8000;	occ;	144;	0;	10907
21;	-779.1;	01-APR-2004	02:25:28;	Dark	;	43.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	86;	0;	10907
22;	-443.0;	01-APR-2004	02:31:04;	Dark	;	38.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	77;	0;	10907
23;	-308.6;	01-APR-2004	02:33:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10907
24;	-46.9;	01-APR-2004	02:37:40;	Dark	;	41.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	83;	0;	10907
25;	69.2;	01-APR-2004	02:39:36;	Dark	;	63.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	127;	0;	10908
26;	300.8;	01-APR-2004	02:43:28;	Dark	;	58.0;	40;	The	Sco	;	1.86;	7100;	occ;	116;	0;	10908
27;	404.0;	01-APR-2004	02:45:11;	Dark	;	47.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	94;	0;	10908
28;	518.1;	01-APR-2004	02:47:05;	Dark	;	41.5;	134;	Bet	TrA	;	2.81;	6600;	occ;	83;	0;	10908
29;	675.2;	01-APR-2004	02:49:42;	Dark	;	54.5;	4;	Alp1Cen		;	-0.01;	5800;	occ;	109;	0;	10908
30;	842.8;	01-APR-2004	02:52:30;	Dark	;	121.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	242;	0;	10908
31;	1101.7;	01-APR-2004	02:56:49;	Dark	;	53.5;	54;	5The	Cen	;	2.06;	4500;	occ;	107;	0;	10908
32;	1430.1;	01-APR-2004	03:02:17;	Dark	;	52.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	104;	0;	10908

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1;	-4350.3;	01-APR-2004	11:29:32;	Dark	;	59.0;	15;	67Alp	Vir	;	0.98;	28000;	occ;	118;	0;	10913
2;	-4155.5;	01-APR-2004	11:32:47;	Bright;		45.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	91;	0;	10913
3;	-3877.5;	01-APR-2004	11:37:25;	Bright;		39.0;	62;	94Bet	Leo	;	2.14;	9700;	occ;	78;	0;	10913
4;	-3780.2;	01-APR-2004	11:39:02;	Bright;		38.0;	96;	68Del	Leo	;	2.56;	9300;	occ;	76;	0;	10913
5;	-3675.9;	01-APR-2004	11:40:47;	Bright;		38.5;	166;	17Eps	Leo	;	2.98;	6000;	occ;	77;	0;	10913
6;	-3567.0;	01-APR-2004	11:42:35;	Bright;		67.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	135;	0;	10913
7;	-3371.8;	01-APR-2004	11:45:51;	Bright;		37.5;	174;	52Psi	UMa	;	3.00;	4400;	occ;	75;	0;	10913
8;	-3191.5;	01-APR-2004	11:48:51;	Bright;		38.5;	87;	64Gam	UMa	;	2.43;	11000;	occ;	77;	0;	10913
9;	-3080.1;	01-APR-2004	11:50:42;	Bright;		39.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	79;	0;	10913
10;	-2703.5;	01-APR-2004	11:56:59;	Bright;		42.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	84;	0;	10913
11;	-2597.4;	01-APR-2004	11:58:45;	Bright;		36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	10913
12;	-2197.2;	01-APR-2004	12:05:25;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	10913
13;	-2117.2;	01-APR-2004	12:06:45;	Bright;		35.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	70;	0;	10913
14;	-1839.6;	01-APR-2004	12:11:23;	Bright;		47.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	95;	0;	10913
15;	-1724.7;	01-APR-2004	12:13:18;	Bright;		46.5;	66;	37Gam	Cyg	;	2.21;	5900;	occ;	93;	0;	10913
16;	-1602.9;	01-APR-2004	12:15:20;	Bright;		44.5;	92;	53Eps	Cyg	;	2.50;	4500;	occ;	89;	0;	10913
17;	-1207.7;	01-APR-2004	12:21:55;	Dark	;	49.5;	61;	8Eps	Peg	;	2.10;	3900;	occ;	99;	0;	10913
18;	-987.3;	01-APR-2004	12:25:35;	Dark	;	65.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	131;	0;	10913
19;	-777.3;	01-APR-2004	12:29:05;	Dark	;	41.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	83;	0;	10913
20;	-441.2;	01-APR-2004	12:34:41;	Dark	;	39.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	78;	0;	10913
21;	-296.3;	01-APR-2004	12:37:06;	Dark	;	43.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	87;	0;	10913
22;	-166.1;	01-APR-2004	12:39:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	10913
23;	-42.3;	01-APR-2004	12:41:20;	Dark	;	45.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	90;	0;	10913
24;	77.2;	01-APR-2004	12:43:20;	Dark	;	61.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	123;	0;	10914
25;	288.8;	01-APR-2004	12:46:51;	Dark	;	56.0;	85;	Kap	Sco	;	2.41;	28000;	occ;	112;	0;	10914
26;	409.6;	01-APR-2004	12:48:52;	Dark	;	39.0;	43;	Alp	TrA	;	1.91;	4250;	occ;	78;	0;	10914
27;	521.5;	01-APR-2004	12:50:44;	Dark	;	40.0;	134;	Bet	TrA	;	2.81;	6600;	occ;	80;	0;	10914
28;	679.2;	01-APR-2004	12:53:22;	Dark	;	55.0;	4;	Alp1Cen		;	-0.01;	5800;	occ;	110;	0;	10914
29;	813.2;	01-APR-2004	12:55:36;	Dark	;	46.0;	12;	Alp1Cru		;	0.77;	30000;	occ;	92;	0;	10914
30;	899.4;	01-APR-2004	12:57:02;	Dark	;	46.0;	26;	Gam	Cru	;	1.62;	2900;	occ;	92;	0;	10914
31;	1017.2;	01-APR-2004	12:59:00;	Dark	;	42.0;	64;	Gam	Cen	;	2.20;	10600;	occ;	84;	0;	10914
32;	1104.9;	01-APR-2004	13:00:27;	Dark	;	56.0;	54;	5The	Cen	;	2.06;	4500;	occ;	112;	0;	10914
33;	1255.2;	01-APR-2004	13:02:58;	Dark	;	149.5;	97;	8Bet1Sco		;	2.56;	30000;	occ;	299;	0;	10914
34;	1578.4;	01-APR-2004	13:08:21;	Dark	;	14.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	28;	0;	10914

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1;	-4457.4;	01-APR-2004	13:08:21;	Dark	;	43.5;	100;	4Gam Crv	;	2.58;	13100;	occ;	87;	0;	10914
2;	-4350.3;	01-APR-2004	13:10:08;	Dark	;	68.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	136;	0;	10914
3;	-4155.5;	01-APR-2004	13:13:23;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10914
4;	-3877.4;	01-APR-2004	13:18:01;	Bright	;	39.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	79;	0;	10914
5;	-3780.3;	01-APR-2004	13:19:38;	Bright	;	38.0;	96;	68Del Leo	;	2.56;	9300;	occ;	76;	0;	10914
6;	-3675.7;	01-APR-2004	13:21:23;	Bright	;	39.0;	166;	17Eps Leo	;	2.98;	6000;	occ;	78;	0;	10914
7;	-3568.6;	01-APR-2004	13:23:10;	Bright	;	63.5;	111;	8Eta Boo	;	2.68;	6000;	occ;	127;	0;	10914
8;	-3371.9;	01-APR-2004	13:26:26;	Bright	;	38.5;	174;	52Psi UMa	;	3.00;	4400;	occ;	77;	0;	10914
9;	-3191.9;	01-APR-2004	13:29:26;	Bright	;	40.0;	87;	64Gam UMa	;	2.43;	11000;	occ;	80;	0;	10914
10;	-3080.2;	01-APR-2004	13:31:18;	Bright	;	39.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	78;	0;	10914
11;	-2704.1;	01-APR-2004	13:37:34;	Bright	;	41.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	83;	0;	10914
12;	-2597.1;	01-APR-2004	13:39:21;	Bright	;	37.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	75;	0;	10914
13;	-2196.8;	01-APR-2004	13:46:02;	Bright	;	35.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	70;	0;	10914
14;	-2116.5;	01-APR-2004	13:47:22;	Bright	;	35.0;	68;	18Alp Cas	;	2.22;	4500;	occ;	70;	0;	10914
15;	-1840.0;	01-APR-2004	13:51:58;	Bright	;	47.5;	144;	18Del Cyg	;	2.86;	11000;	occ;	95;	0;	10914
16;	-1724.5;	01-APR-2004	13:53:54;	Bright	;	46.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	92;	0;	10914
17;	-1602.8;	01-APR-2004	13:55:56;	Bright	;	47.0;	92;	53Eps Cyg	;	2.50;	4500;	occ;	94;	0;	10914
18;	-1207.2;	01-APR-2004	14:02:31;	Dark	;	48.5;	61;	8Eps Peg	;	2.10;	3900;	occ;	97;	0;	10914
19;	-986.9;	01-APR-2004	14:06:11;	Dark	;	63.0;	11;	53Alp Aql	;	0.76;	8000;	occ;	126;	0;	10914
20;	-776.5;	01-APR-2004	14:09:42;	Dark	;	43.5;	142;	49Del Cap	;	2.85;	8900;	occ;	87;	0;	10914
21;	-440.8;	01-APR-2004	14:15:18;	Dark	;	40.0;	172;	Gam Gru	;	3.00;	13100;	occ;	80;	0;	10914
22;	-296.1;	01-APR-2004	14:17:42;	Dark	;	42.0;	31;	Alp Gru	;	1.73;	15200;	occ;	84;	0;	10914
23;	-165.8;	01-APR-2004	14:19:53;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10914
24;	-41.7;	01-APR-2004	14:21:57;	Dark	;	39.5;	45;	Alp Pav	;	1.94;	26000;	occ;	79;	0;	10914
25;	78.9;	01-APR-2004	14:23:57;	Dark	;	67.5;	116;	19Del Sgr	;	2.70;	4100;	occ;	135;	0;	10915
26;	290.1;	01-APR-2004	14:27:28;	Dark	;	53.5;	85;	Kap Sco	;	2.41;	28000;	occ;	107;	0;	10915
27;	410.0;	01-APR-2004	14:29:28;	Dark	;	41.0;	43;	Alp TrA	;	1.91;	4250;	occ;	82;	0;	10915
28;	522.1;	01-APR-2004	14:31:20;	Dark	;	40.0;	134;	Bet TrA	;	2.81;	6600;	occ;	80;	0;	10915
29;	679.0;	01-APR-2004	14:33:57;	Dark	;	49.5;	4;	Alp1Cen	;	-0.01;	5800;	occ;	99;	0;	10915
30;	813.4;	01-APR-2004	14:36:12;	Dark	;	39.0;	12;	Alp1Cru	;	0.77;	30000;	occ;	78;	0;	10915
31;	899.7;	01-APR-2004	14:37:38;	Dark	;	46.0;	26;	Gam Cru	;	1.62;	2900;	occ;	92;	0;	10915
32;	1017.6;	01-APR-2004	14:39:36;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;	occ;	89;	0;	10915
33;	1105.7;	01-APR-2004	14:41:04;	Dark	;	54.0;	54;	5The Cen	;	2.06;	4500;	occ;	108;	0;	10915

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1;	-4446.6;	01-APR-2004	03:04:56;	Dark	;	45.0;	163;	7Del Crv	;	2.94;	11000;	occ;	90;	0;	10908
2;	-4350.2;	01-APR-2004	03:06:33;	Dark	;	66.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	133;	0;	10908
3;	-4155.4;	01-APR-2004	03:09:48;	Bright	;	45.5;	121;	29Gam Vir	;	2.74;	7200;	occ;	91;	0;	10908
4;	-3877.7;	01-APR-2004	03:14:25;	Bright	;	40.5;	62;	94Bet Leo	;	2.14;	9700;	occ;	81;	0;	10908
5;	-3781.3;	01-APR-2004	03:16:02;	Bright	;	39.0;	96;	68Del Leo	;	2.56;	9300;	occ;	78;	0;	10908
6;	-3677.6;	01-APR-2004	03:17:45;	Bright	;	37.5;	166;	17Eps Leo	;	2.98;	6000;	occ;	75;	0;	10908
7;	-3561.1;	01-APR-2004	03:19:42;	Bright	;	67.5;	111;	8Eta Boo	;	2.68;	6000;	occ;	135;	0;	10908
8;	-3371.1;	01-APR-2004	03:22:52;	Bright	;	37.0;	174;	52Psi UMa	;	3.00;	4400;	occ;	74;	0;	10908
9;	-3190.5;	01-APR-2004	03:25:52;	Bright	;	39.5;	87;	64Gam UMa	;	2.43;	11000;	occ;	79;	0;	10908
10;	-3081.0;	01-APR-2004	03:27:42;	Bright	;	37.5;	36;	50Alp UMa	;	1.80;	6300;	occ;	75;	0;	10908
11;	-2702.2;	01-APR-2004	03:34:01;	Bright	;	41.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	83;	0;	10908
12;	-2597.8;	01-APR-2004	03:35:45;	Bright	;	38.5;	49;	1Alp UMi	;	1.99;	6300;	occ;	77;	0;	10908
13;	-2198.5;	01-APR-2004	03:42:24;	Bright	;	36.0;	76;	27Gam Cas	;	2.30;	30000;	occ;	72;	0;	10908
14;	-2118.5;	01-APR-2004	03:43:44;	Bright	;	36.0;	68;	18Alp Cas	;	2.22;	4500;	occ;	72;	0;	10908
15;	-1838.8;	01-APR-2004	03:48:24;	Bright	;	47.0;	144;	18Del Cyg	;	2.86;	11000;	occ;	94;	0;	10908
16;	-1724.7;	01-APR-2004	03:50:18;	Bright	;	46.0;	66;	37Gam Cyg	;	2.21;	5900;	occ;	92;	0;	10908
17;	-1602.9;	01-APR-2004	03:52:20;	Bright	;	41.5;	92;	53Eps Cyg	;	2.50;	4500;	occ;	83;	0;	10908
18;	-1209.0;	01-APR-2004	03:58:54;	Dark	;	49.0;	61;	8Eps Peg	;	2.10;	3900;	occ;	98;	0;	10908
19;	-991.8;	01-APR-2004	04:02:31;	Dark	;	67.5;	11;	53Alp Aql	;	0.76;	8000;	occ;	135;	0;	10908
20;	-779.3;	01-APR-2004	04:06:04;	Dark	;	42.0;	142;	49Del Cap	;	2.85;	8900;	occ;	84;	0;	10908
21;	-442.8;	01-APR-2004	04:11:40;	Dark	;	41.0;	172;	Gam Gru	;	3.00;	13100;	occ;	82;	0;	10908
22;	-307.8;	01-APR-2004	04:13:55;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	10908
23;	-46.5;	01-APR-2004	04:18:16;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;	occ;	85;	0;	10908
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 32; 1016.7; 01-APR-2004 07:57:12; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;10911  
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28; 450.7; 19-APR-2004 06:41:37; Dark ; 70.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 141; 0;11168
29; 587.8; 19-APR-2004 06:43:55; Dark ; 57.5; 40; The Sco ; 1.86; 7100;occ; 115; 0;11168
30; 781.4; 19-APR-2004 06:47:08; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;11168
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32; 1071.6; 19-APR-2004 06:51:58; Dark ; 44.5; 81; Eta Cen ; 2.36; 28000;occ; 89; 0;11168
33; 1208.4; 19-APR-2004 06:54:15; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;11168
34; 1337.1; 19-APR-2004 06:56:24; Dark ; 80.5; 80; 7Del Sco ; 2.32; 30000;occ; 161; 0;11168
35; 1507.0; 19-APR-2004 06:59:14; Dark ; 43.5; 106; 9Bet Crv ; 2.65; 5600;occ; 87; 0;11168
36; 1695.1; 19-APR-2004 07:02:22; Bright; 43.0; 15; 67Alp Vir ; 0.98; 28000;occ; 86; 0;11168
37; 1877.2; 19-APR-2004 07:05:24; Bright; 12.0; 121; 29Gam Vir ; 2.74; 7200;occ; 24; 0;11168

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3;	-3747.7;	19-APR-2004	07:12:15;	Bright;	36.5;	96;	68Del Leo	;	2.56;	9300;occ;	73;	0;	11168	
4;	-3460.8;	19-APR-2004	07:17:02;	Bright;	37.5;	152;	12Alp2CVn	;	2.89;	11000;occ;	75;	0;	11168	
5;	-3354.0;	19-APR-2004	07:18:49;	Bright;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;	11168	
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9;	-2594.0;	19-APR-2004	07:31:29;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	11168	
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11;	-2364.4;	19-APR-2004	07:35:18;	Bright;	66.5;	69;	33Gam Dra	;	2.23;	3800;occ;	133;	0;	11168	
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23;	-225.9;	19-APR-2004	08:10:57;	Dark	;	41.0;	31;	Alp Gru	;	1.73;	15200;occ;	82;	0;	11168
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25;	81.0;	19-APR-2004	08:16:04;	Dark	;	42.5;	45;	Alp Pav	;	1.94;	26000;occ;	85;	0;	11169
26;	310.4;	19-APR-2004	08:19:53;	Dark	;	79.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	159;	0;	11169
27;	452.7;	19-APR-2004	08:22:15;	Dark	;	71.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	142;	0;	11169
28;	588.9;	19-APR-2004	08:24:32;	Dark	;	61.0;	40;	The Sco	;	1.86;	7100;occ;	122;	0;	11169
29;	781.6;	19-APR-2004	08:27:44;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	11169
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4;	-3747.4;	19-APR-2004	08:52:51;	Bright;	38.5;	96;	68Del Leo	;	2.56;	9300;occ;	77;	0;	11169	
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22;	-559.3;	19-APR-2004	09:45:59;	Dark	;	46.0;	18;	24Alp PsA	;	1.17;	9700;occ;	92;	0;	11169
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