

GOMOS Daily Report 22-SEP-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	23SEP2004 07:26:03
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (22SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (23SEP2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	38
Nb of prods with errors	0

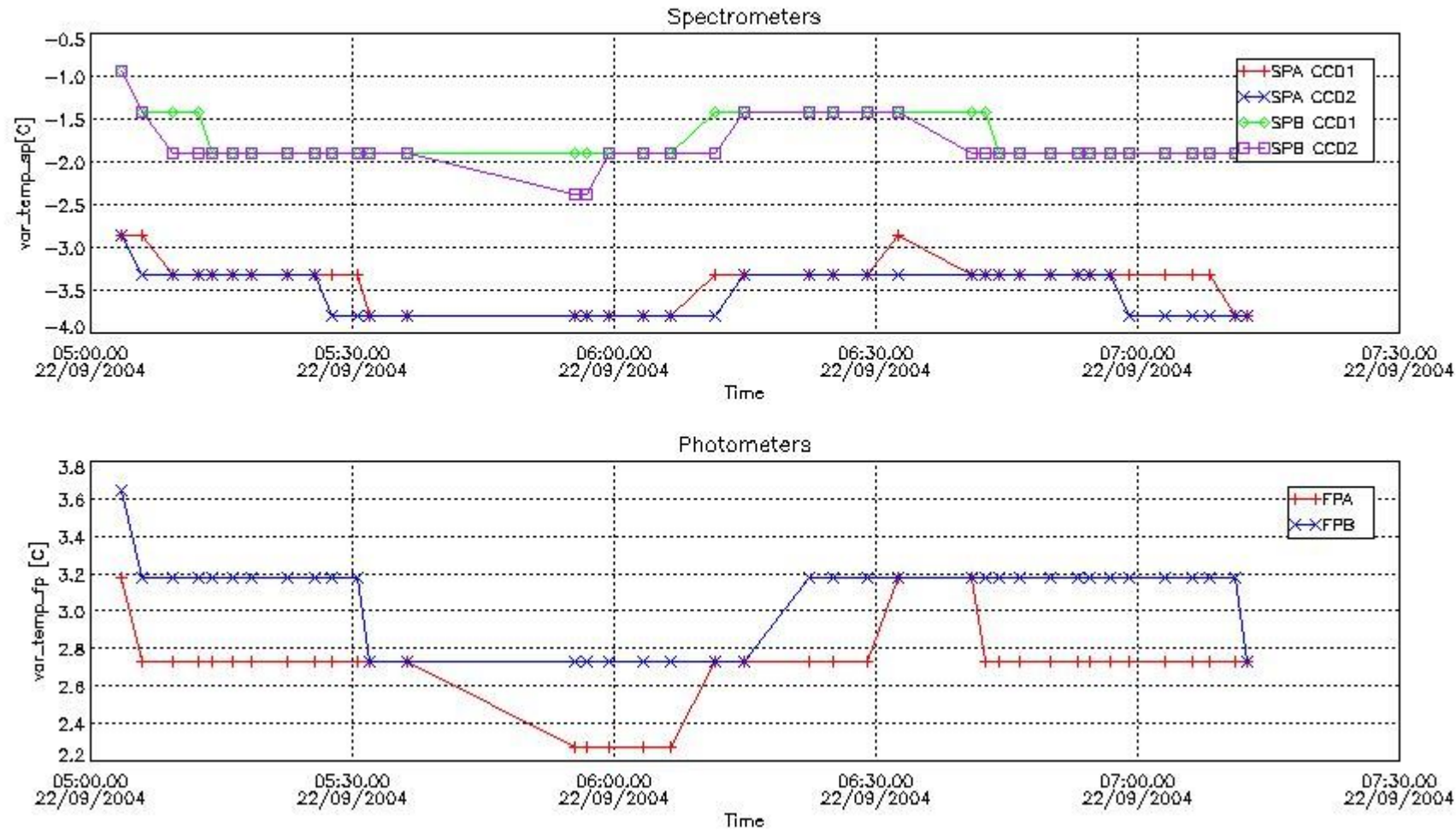
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20040922_050326_000000492030_00320_13400_0000.N1	22-SEP-2004 05:03:26	Dark	48.500	9	Alp Eri	0.45300	24000.	97	13400	No
GOM_TRA_1PNPDE20040922_050553_000000392030_00320_13400_0001.N1	22-SEP-2004 05:05:53	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	13400	No
GOM_TRA_1PNPDE20040922_050921_000000522030_00320_13400_0002.N1	22-SEP-2004 05:09:21	Twilight	52.000	63	Bet Gru	2.1500	2800.0	104	13400	No
GOM_TRA_1PNPDE20040922_051226_000000412030_00320_13400_0003.N1	22-SEP-2004 05:12:26	Bright	40.500	172	Gam Gru	3.0030	13100.	81	13400	No
GOM_TRA_1PNPDE20040922_051356_000000452030_00320_13400_0004.N1	22-SEP-2004 05:13:56	Bright	45.000	18	24Alp PsA	1.1660	9700.0	90	13400	No
GOM_TRA_1PNPDE20040922_051618_000000552030_00320_13400_0005.N1	22-SEP-2004 05:16:18	Bright	55.000	52	16Bet Cet	2.0370	4500.0	110	13400	No
GOM_TRA_1PNPDE20040922_051826_000000432030_00320_13400_0006.N1	22-SEP-2004 05:18:26	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	13400	No
GOM_TRA_1PNPDE20040922_052236_000000402030_00320_13400_0007.N1	22-SEP-2004 05:22:36	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13400	No
GOM_TRA_1PNPDE20040922_052539_000000412030_00320_13400_0008.N1	22-SEP-2004 05:25:39	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	13400	No
GOM_TRA_1PNPDE20040922_052739_000000462030_00320_13400_0009.N1	22-SEP-2004 05:27:39	Bright	45.500	140	88Gam Peg	2.8340	26000.	91	13400	No
GOM_TRA_1PNPDE20040922_053031_000000402030_00320_13400_0010.N1	22-SEP-2004 05:30:31	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13400	No
GOM_TRA_1PNPDE20040922_053159_000000462030_00320_13400_0011.N1	22-SEP-2004 05:31:59	Bright	45.500	58	21Alp And	2.0730	11000.	91	13400	No
GOM_TRA_1PNPDE20040922_053614_000000402030_00320_13400_0012.N1	22-SEP-2004 05:36:14	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13400	No
GOM_TRA_1PNPDE20040922_055525_000000382030_00320_13400_0000.N1	22-SEP-2004 05:55:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	13400	No
GOM_TRA_1PNPDE20040922_055654_000000362030_00320_13400_0001.N1	22-SEP-2004 05:56:54	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	13400	No
GOM_TRA_1PNPDE20040922_055929_000000642030_00320_13400_0002.N1	22-SEP-2004 05:59:29	Bright	63.500	42	34Bet Aur	1.9000	10200.	127	13400	No
GOM_TRA_1PNPDE20040922_060321_000000702030_00320_13400_0003.N1	22-SEP-2004 06:03:21	Bright	70.000	107	37The Aur	2.6490	11000.	140	13400	No
GOM_TRA_1PNPDE20040922_060626_000002552030_00320_13400_0004.N1	22-SEP-2004 06:06:26	Twilight	255.00	114	3lot Aur	2.6930	4600.0	510	13400	No
GOM_TRA_1PNPDE20040922_061129_000001082030_00320_13400_0005.N1	22-SEP-2004 06:11:29	Twilight	107.50	151	13Mu Gem	2.8900	3000.0	215	13400	No
GOM_TRA_1PNPDE20040922_061455_000000642030_00320_13400_0006.N1	22-SEP-2004 06:14:55	Twilight	63.500	8	10Alp CMi	0.40000	6500.0	127	13400	No
GOM_TRA_1PNPDE20040922_062217_000000462030_00320_13400_0007.N1	22-SEP-2004 06:22:17	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	13400	No
GOM_TRA_1PNPDE20040922_062501_000000722030_00320_13400_0008.N1	22-SEP-2004 06:25:01	Dark	72.000	1	9Alp CMa	-1.4400	11000.	144	13400	No
GOM_TRA_1PNPDE20040922_062859_000000412030_00320_13400_0009.N1	22-SEP-2004 06:28:59	Dark	41.000	46	Del Vel	1.9540	10600.	82	13400	No
GOM_TRA_1PNPDE20040922_063237_000000462030_00321_13401_0010.N1	22-SEP-2004 06:32:37	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	13401	No
GOM_TRA_1PNPDE20040922_064100_000000412030_00321_13401_0011.N1	22-SEP-2004 06:41:00	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	13401	No
GOM_TRA_1PNPDE20040922_064235_000000422030_00321_13401_0012.N1	22-SEP-2004 06:42:35	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	13401	No
GOM_TRA_1PNPDE20040922_064402_000000432030_00321_13401_0013.N1	22-SEP-2004 06:44:02	Dark	43.000	9	Alp Eri	0.45300	24000.	86	13401	No
GOM_TRA_1PNPDE20040922_064629_000000402030_00321_13401_0014.N1	22-SEP-2004 06:46:29	Dark	39.500	148	Alp Tuc	2.8780	4100.0	79	13401	No
GOM_TRA_1PNPDE20040922_064957_000000492030_00321_13401_0015.N1	22-SEP-2004 06:49:57	Twilight	49.000	63	Bet Gru	2.1500	2800.0	98	13401	No
GOM_TRA_1PNPDE20040922_065302_000000402030_00321_13401_0016.N1	22-SEP-2004 06:53:02	Bright	40.000	172	Gam Gru	3.0030	13100.	80	13401	No
GOM_TRA_1PNPDE20040922_065433_000000462030_00321_13401_0017.N1	22-SEP-2004 06:54:33	Bright	45.500	18	24Alp PsA	1.1660	9700.0	91	13401	No
GOM_TRA_1PNPDE20040922_065654_000000582030_00321_13401_0018.N1	22-SEP-2004 06:56:54	Bright	58.000	52	16Bet Cet	2.0370	4500.0	116	13401	No
GOM_TRA_1PNPDE20040922_065903_000000422030_00321_13401_0019.N1	22-SEP-2004 06:59:03	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	13401	No
GOM_TRA_1PNPDE20040922_070312_000000392030_00321_13401_0020.N1	22-SEP-2004 07:03:12	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	13401	No
GOM_TRA_1PNPDE20040922_070615_000000402030_00321_13401_0021.N1	22-SEP-2004 07:06:15	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	13401	No
GOM_TRA_1PNPDE20040922_070815_000000452030_00321_13401_0022.N1	22-SEP-2004 07:08:15	Bright	45.000	140	88Gam Peg	2.8340	26000.	90	13401	No
GOM_TRA_1PNPDE20040922_071107_000000392030_00321_13401_0023.N1	22-SEP-2004 07:11:07	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	13401	No
GOM_TRA_1PNPDE20040922_071235_000000442030_00321_13401_0024.N1	22-SEP-2004 07:12:35	Bright	43.500	58	21Alp And	2.0730	11000.	87	13401	No

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



4. Overview of dark signal processing per product

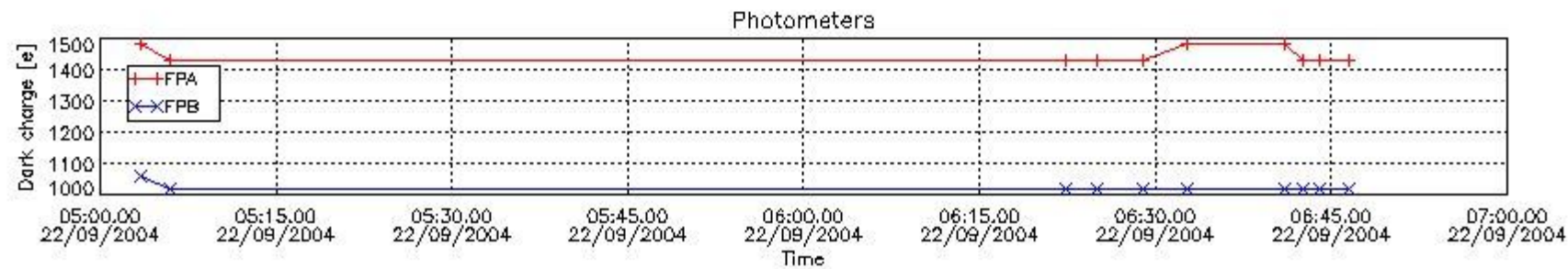
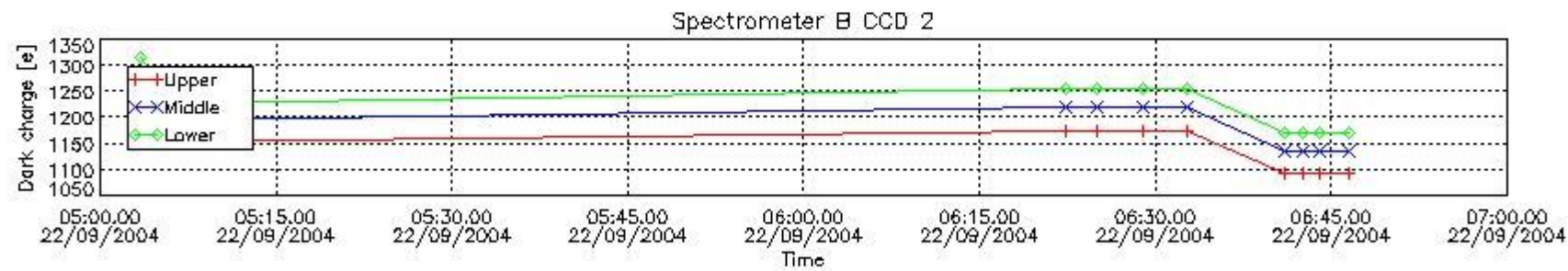
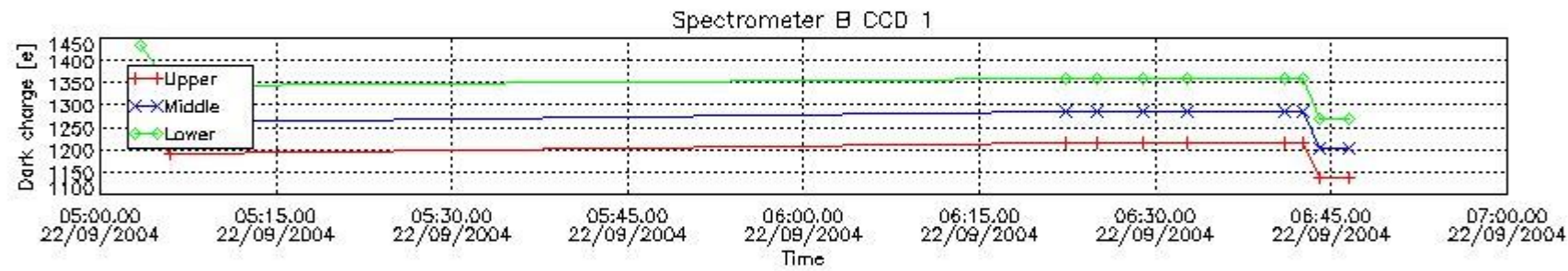
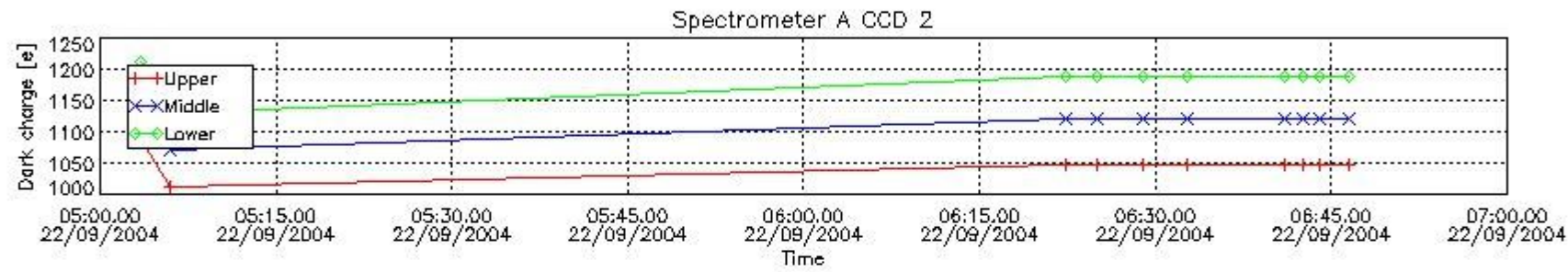
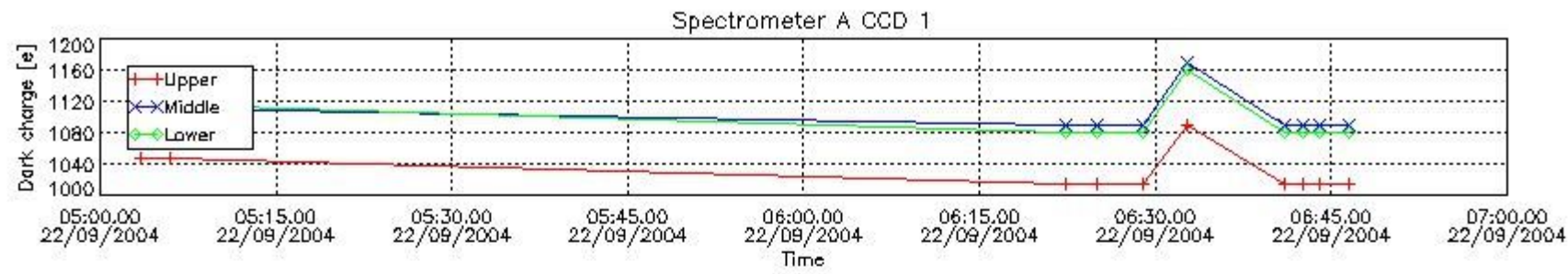
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20040922_050326_000000492030_00320_13400_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20040922_050553_000000392030_00320_13400_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_050921_000000522030_00320_13400_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_051226_000000412030_00320_13400_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_051356_000000452030_00320_13400_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_051618_000000552030_00320_13400_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_051826_000000432030_00320_13400_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_052236_000000402030_00320_13400_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_052539_000000412030_00320_13400_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_052739_000000462030_00320_13400_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_053031_000000402030_00320_13400_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_053159_000000462030_00320_13400_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20040922_053614_000000402030_00320_13400_0012.N1	DC map used (0)

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



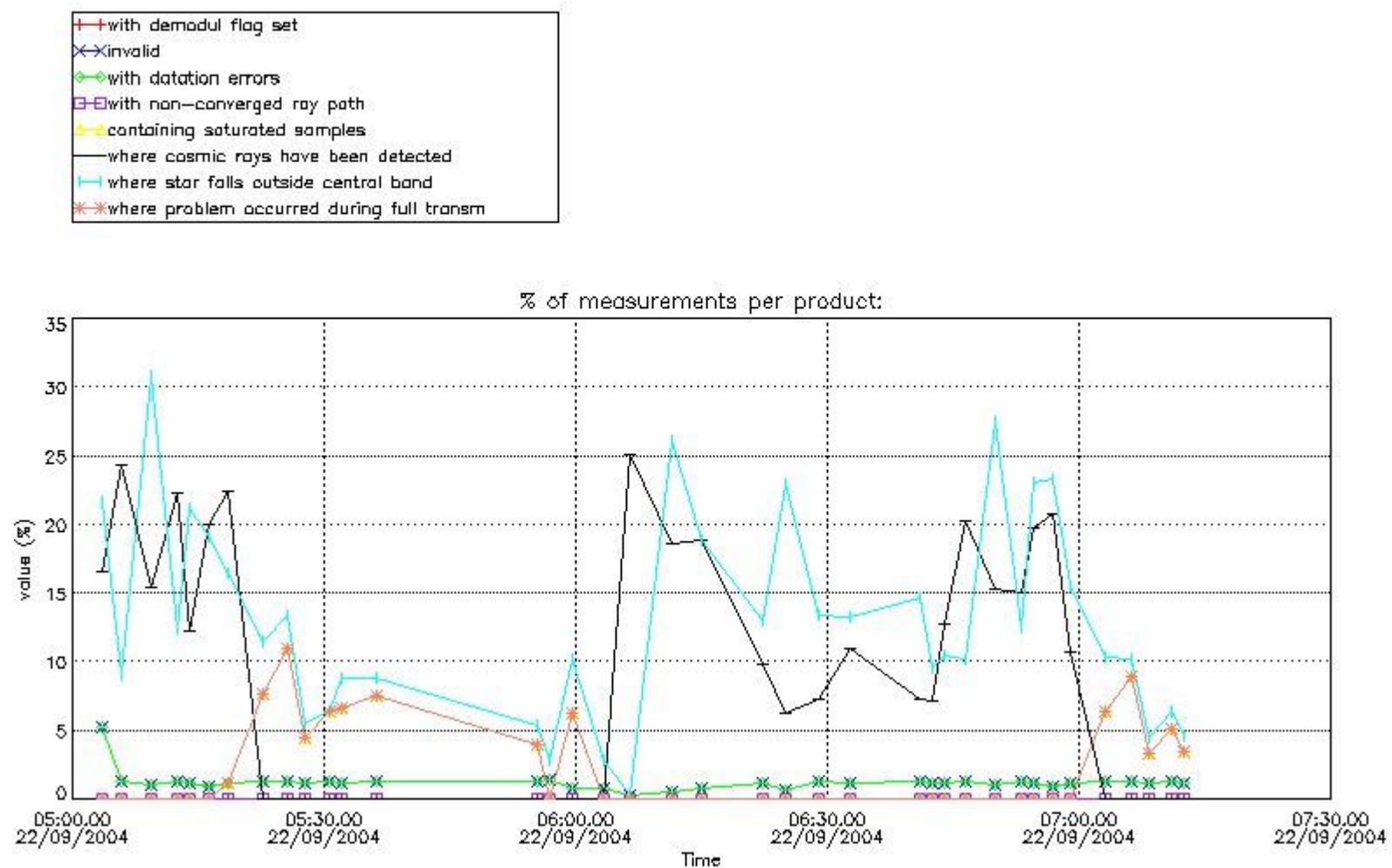
5. Demodulation flag and quality information monitoring

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.

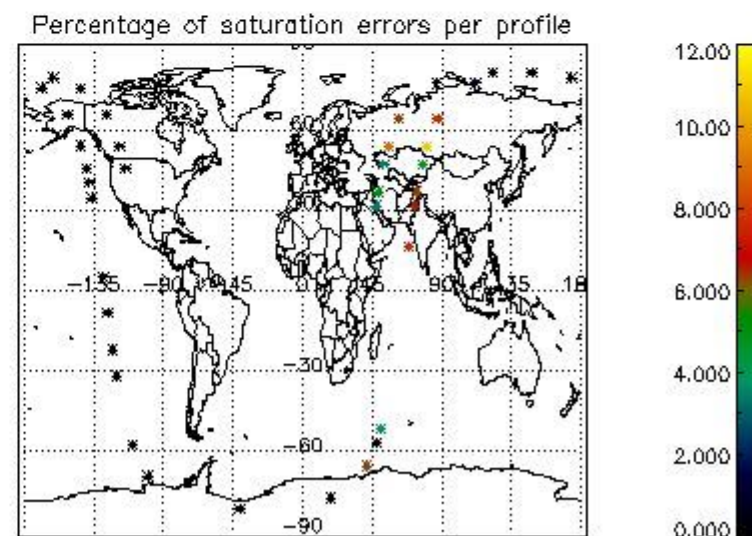
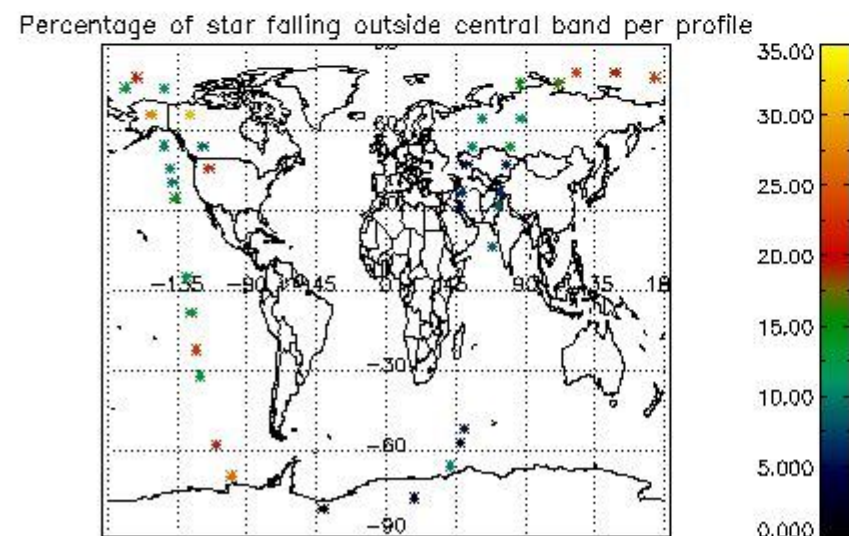
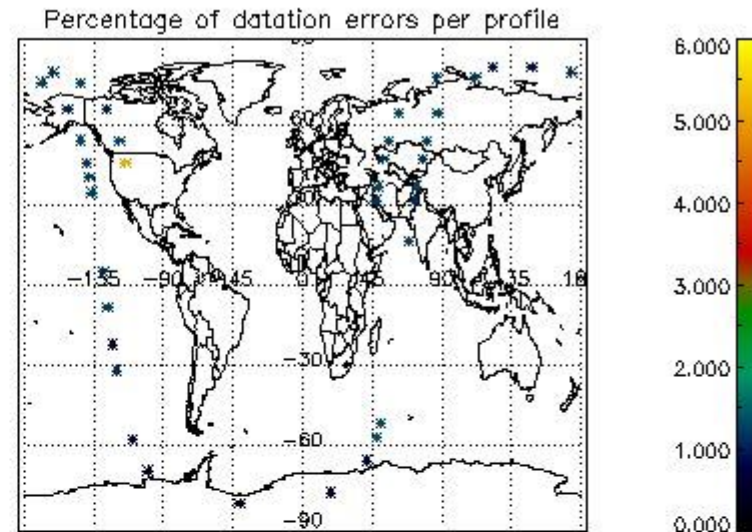
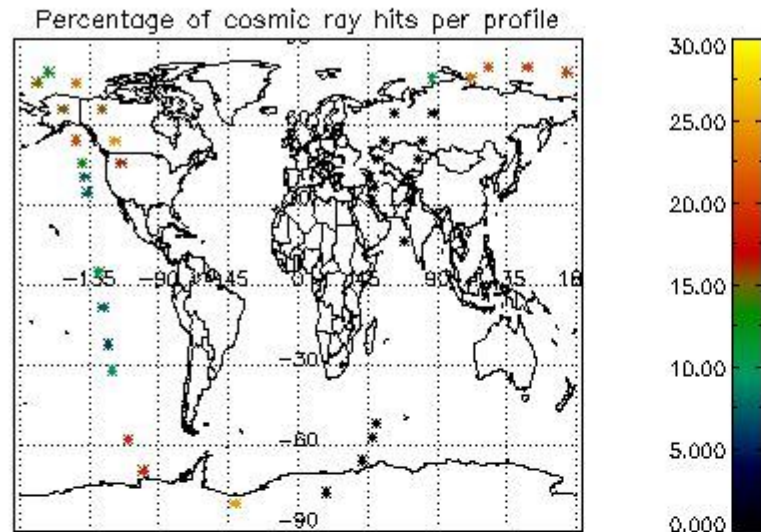
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	5.26316 %
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)



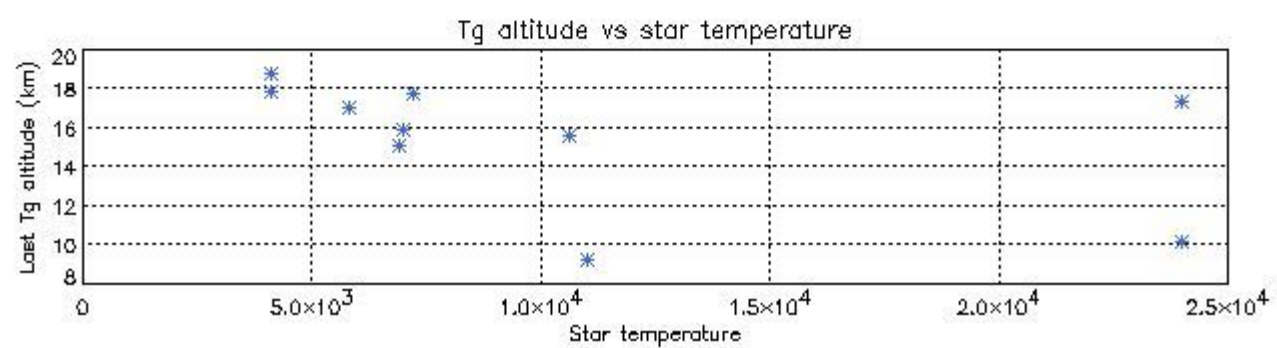
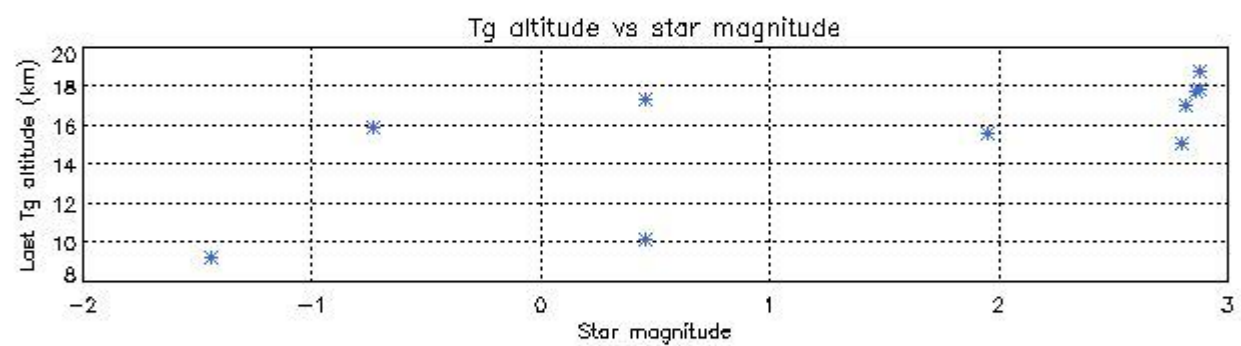
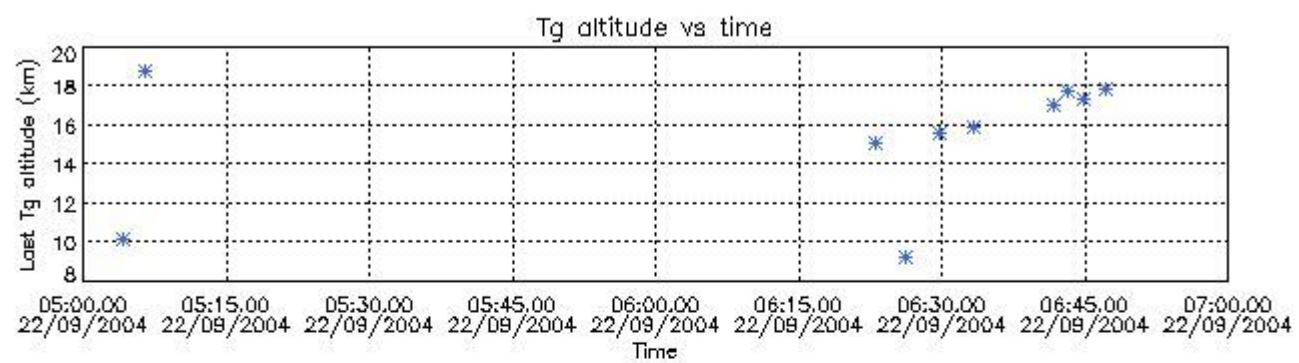
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.456	17.286	10.994
St. deviation:	3.2406	4.2638	6.8391
Maximum:	18.721	24.450	22.665
Minimum:	9.2670	9.8903	5.1407
Number of data:	10.000	23.000	5.0000

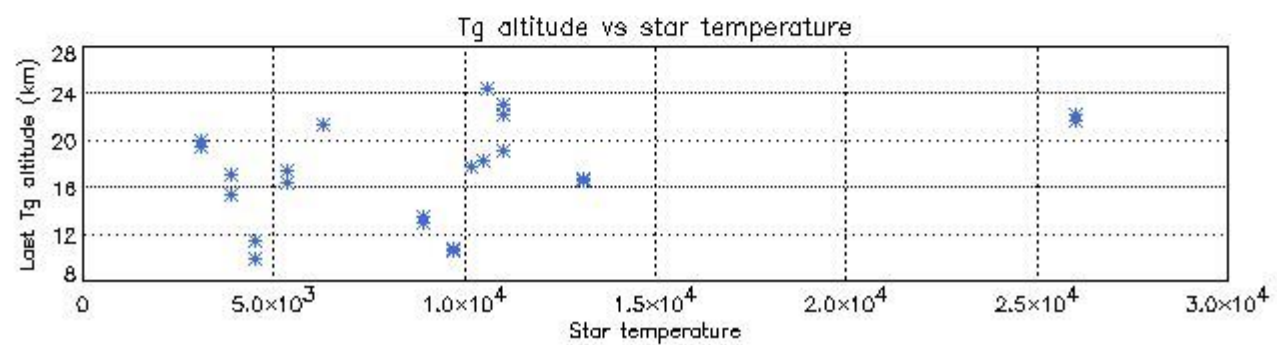
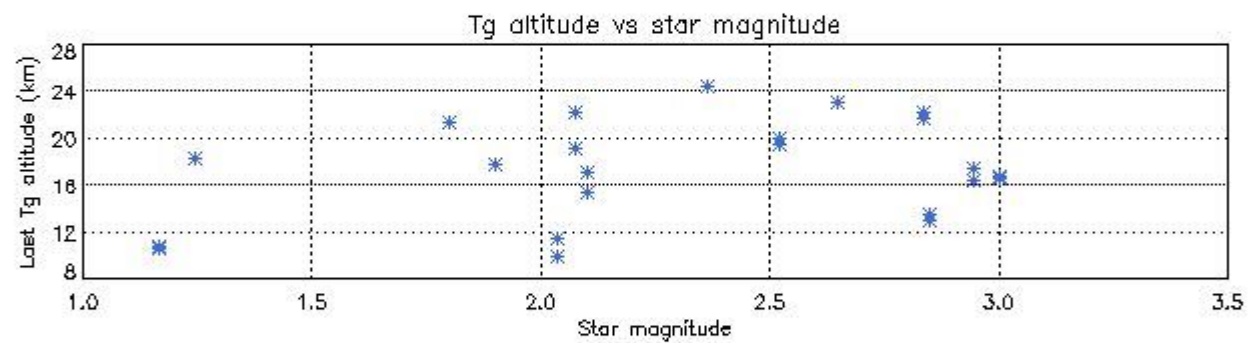
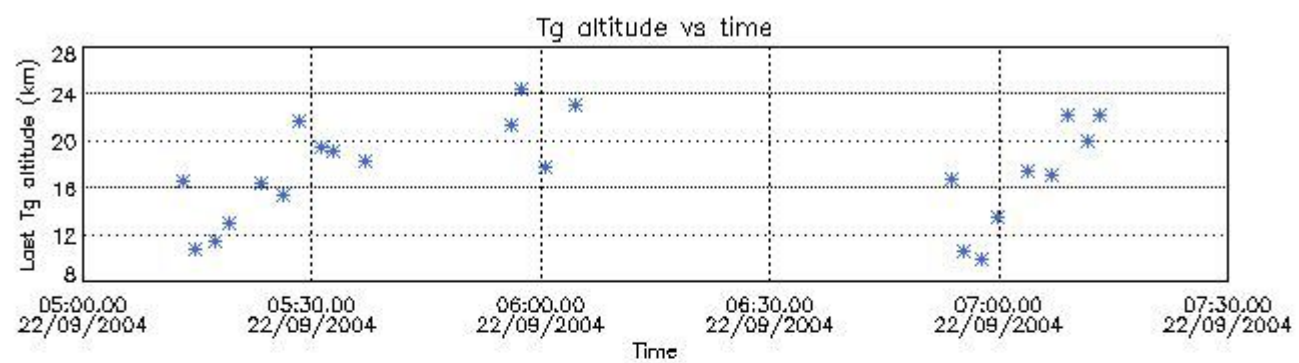
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



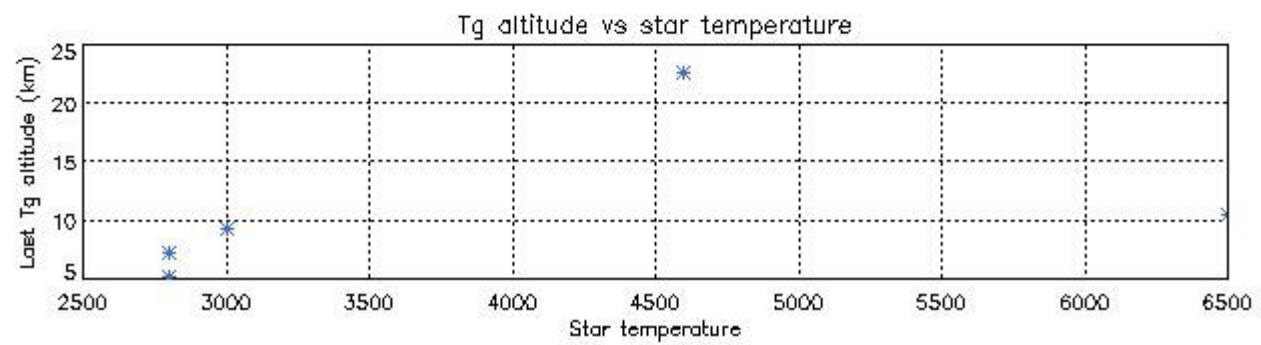
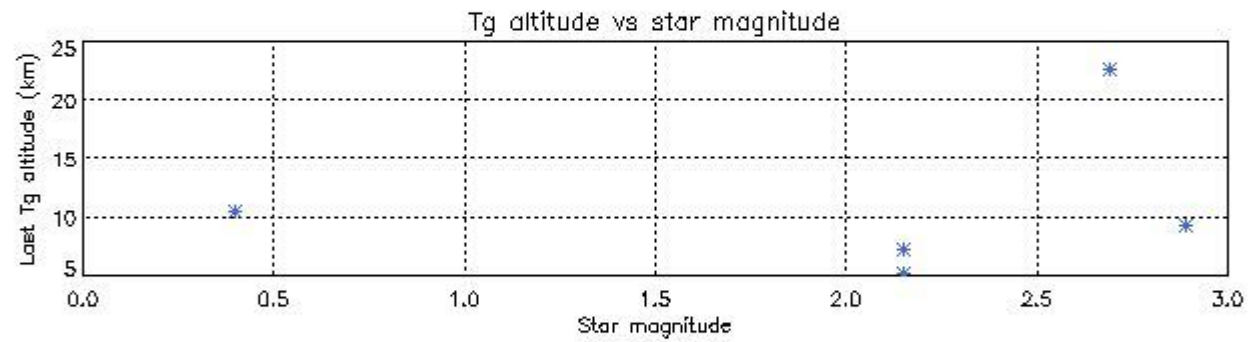
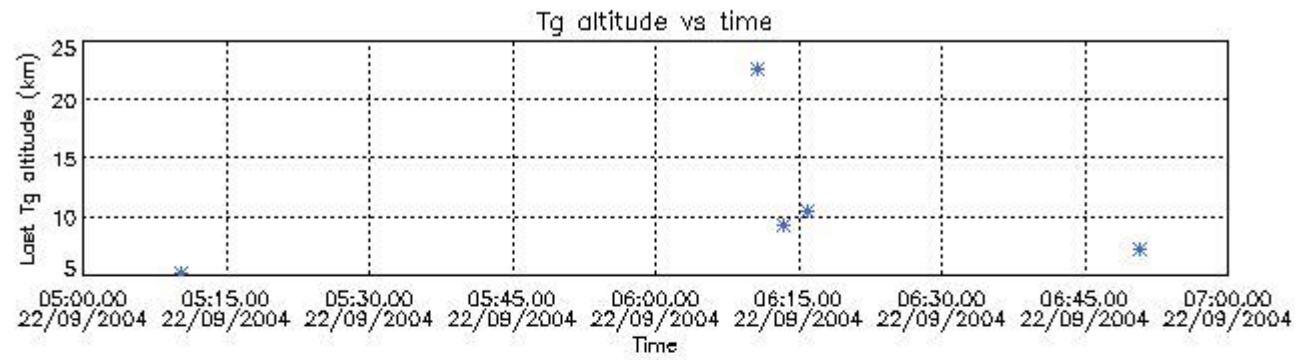
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

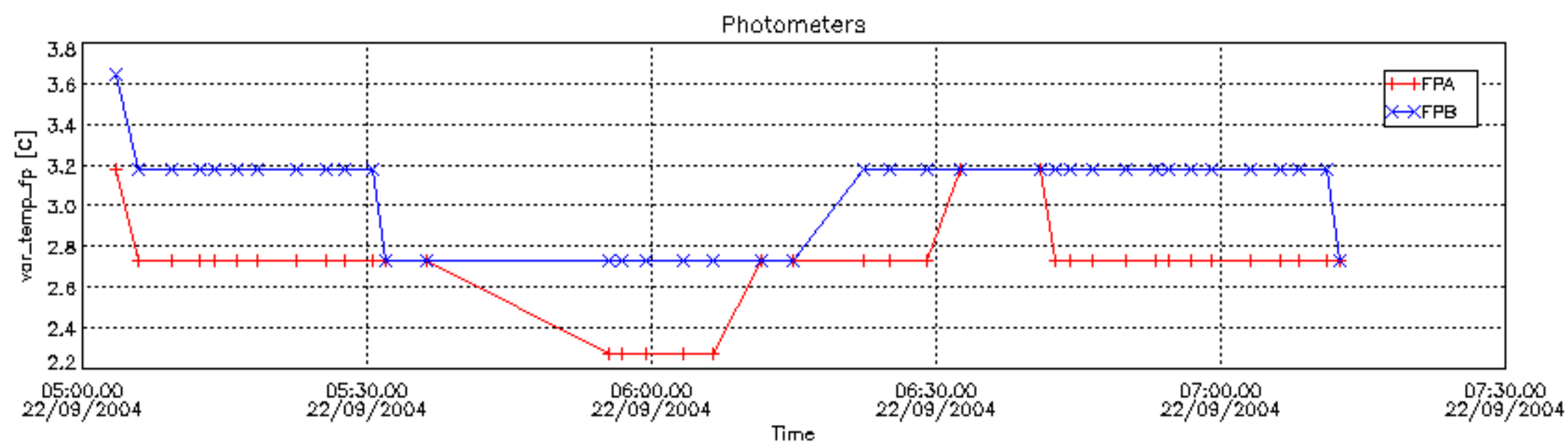
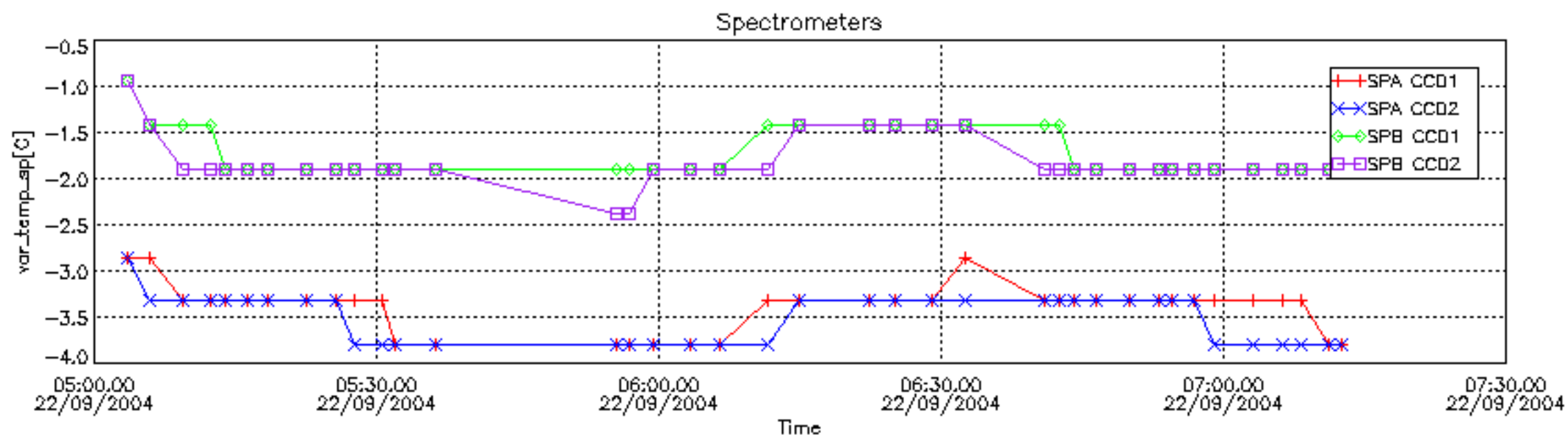
Tangent altitude at which the star is lost

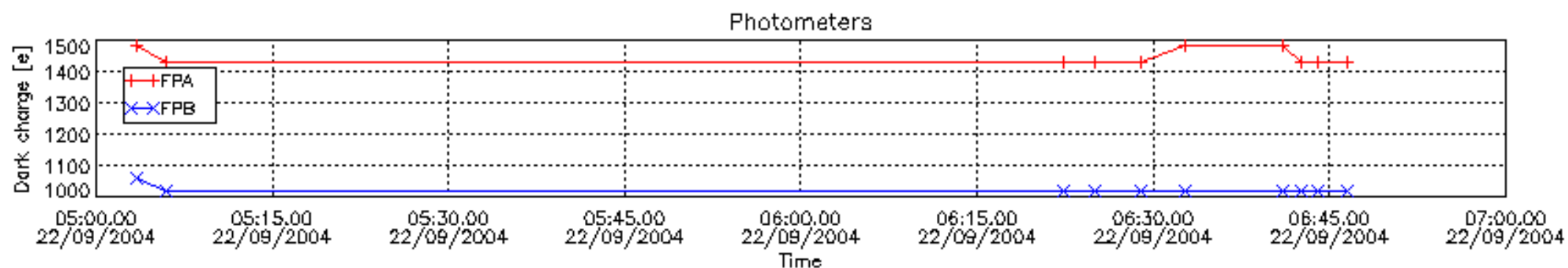
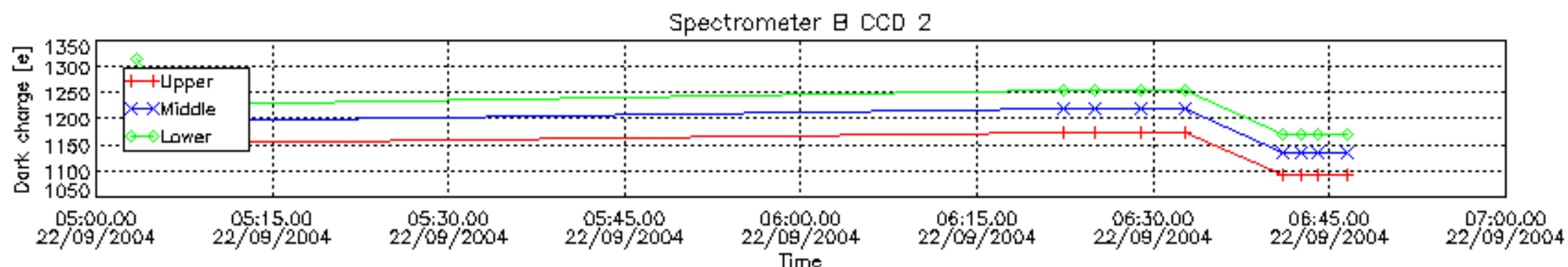
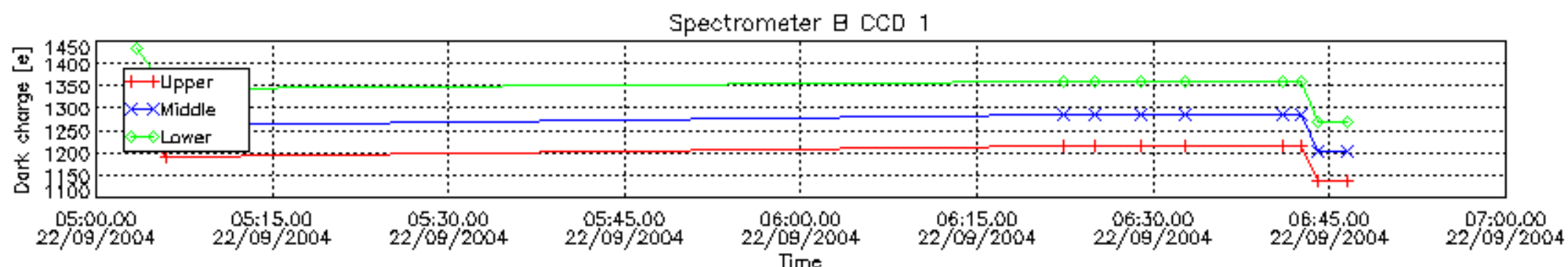
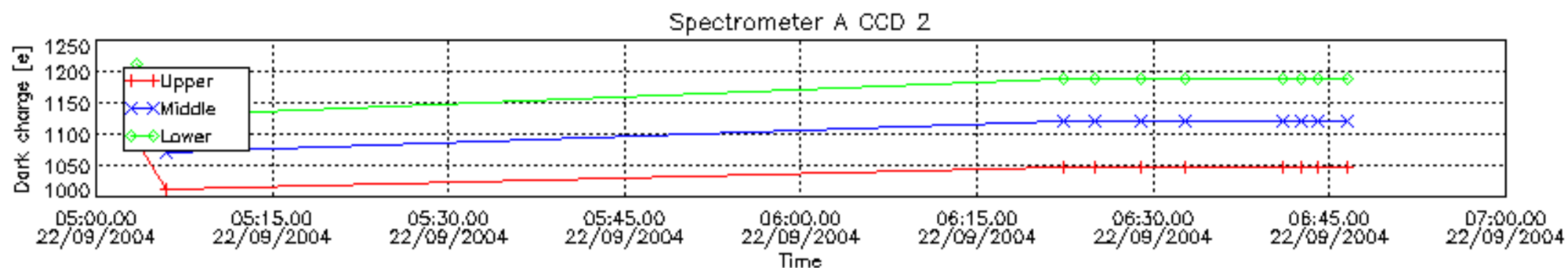
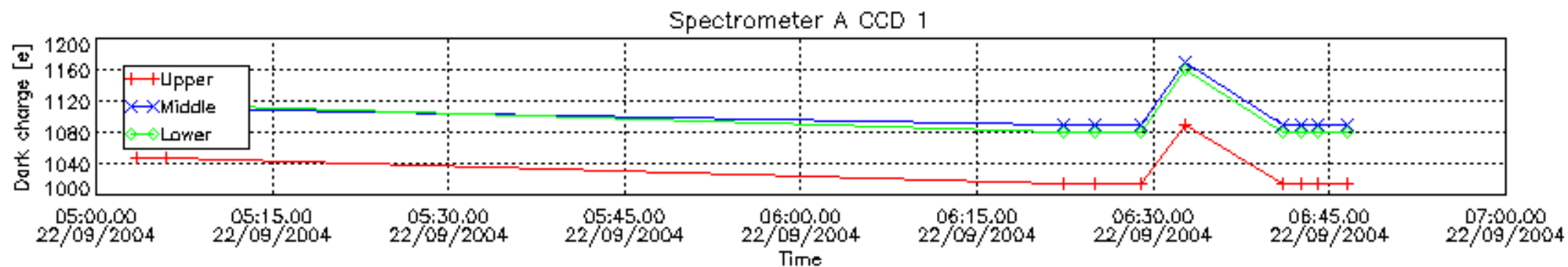


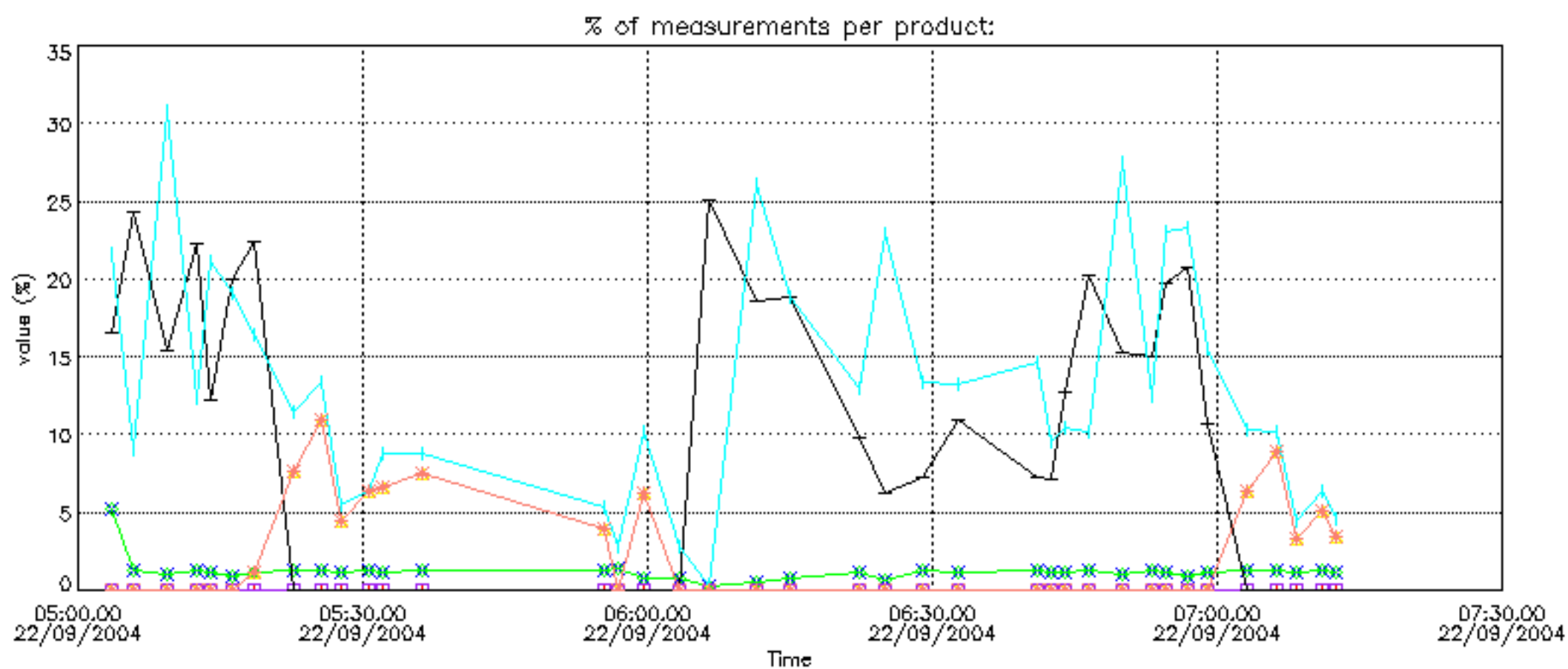
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

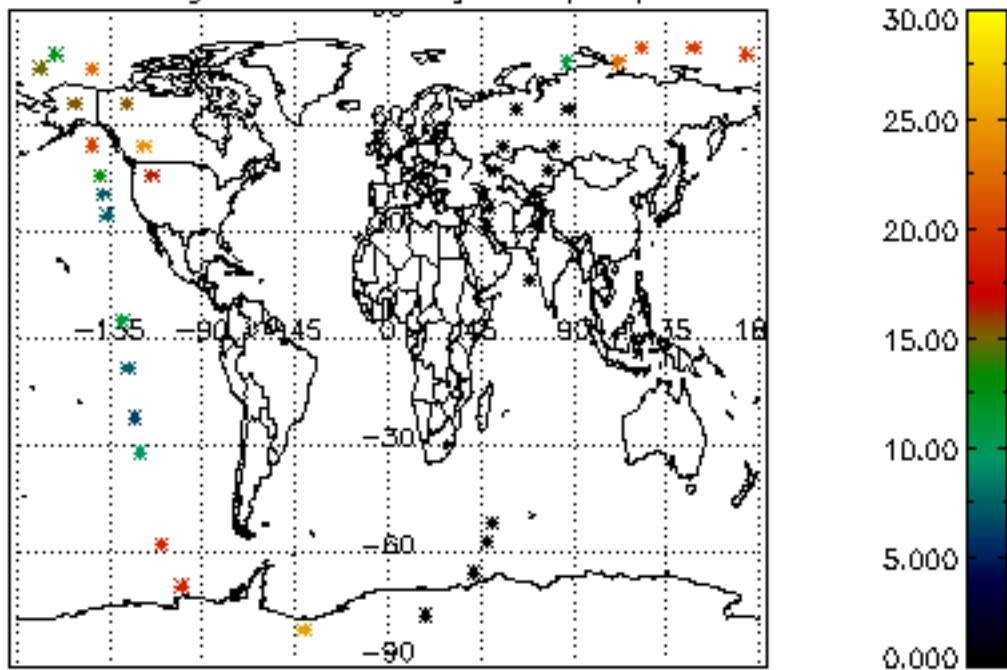
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1447.2	1461.1	1447.2
St. deviation:	4.2935	5.3646	7.0177	7.8686
Maximum:	1487.0	1482.0	1514.0	1504.0
Minimum:	1446.0	1429.0	1440.0	1416.0
Number of data:	11300.	11300.	25400.	25400.



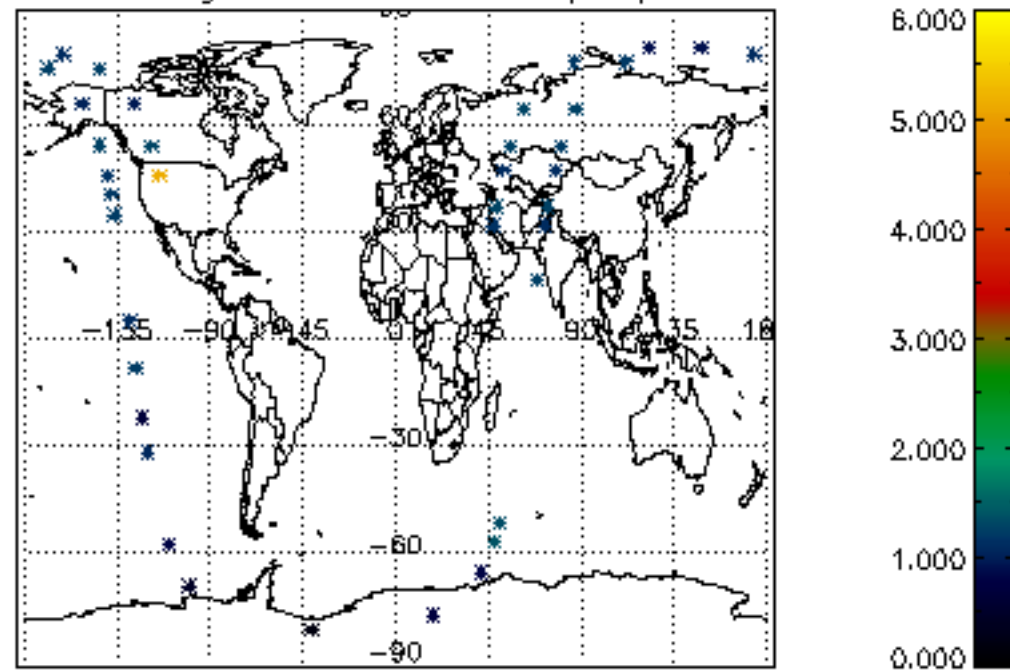




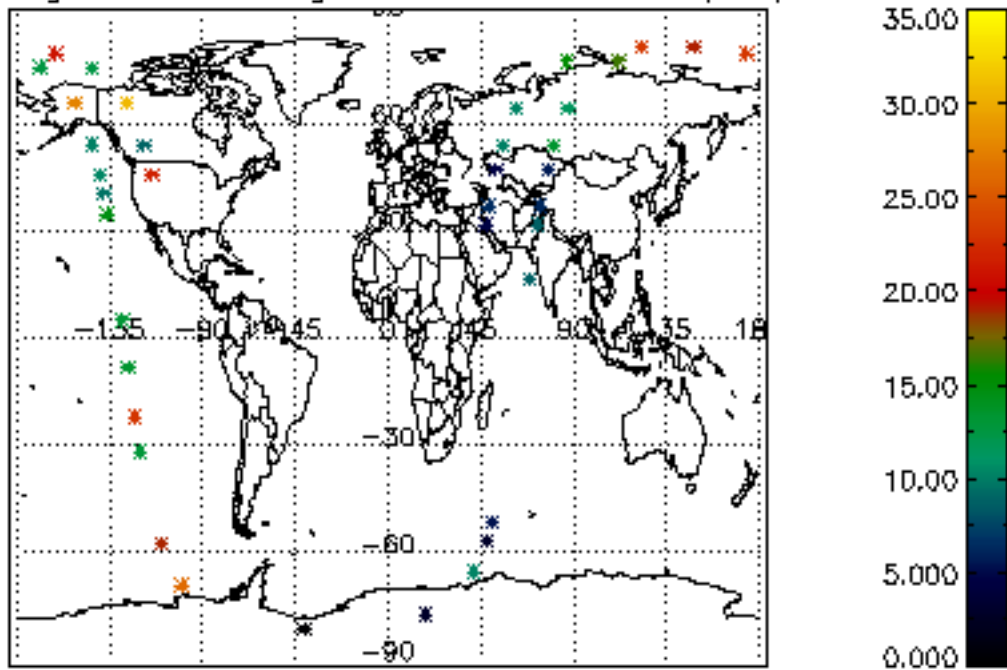
Percentage of cosmic ray hits per profile



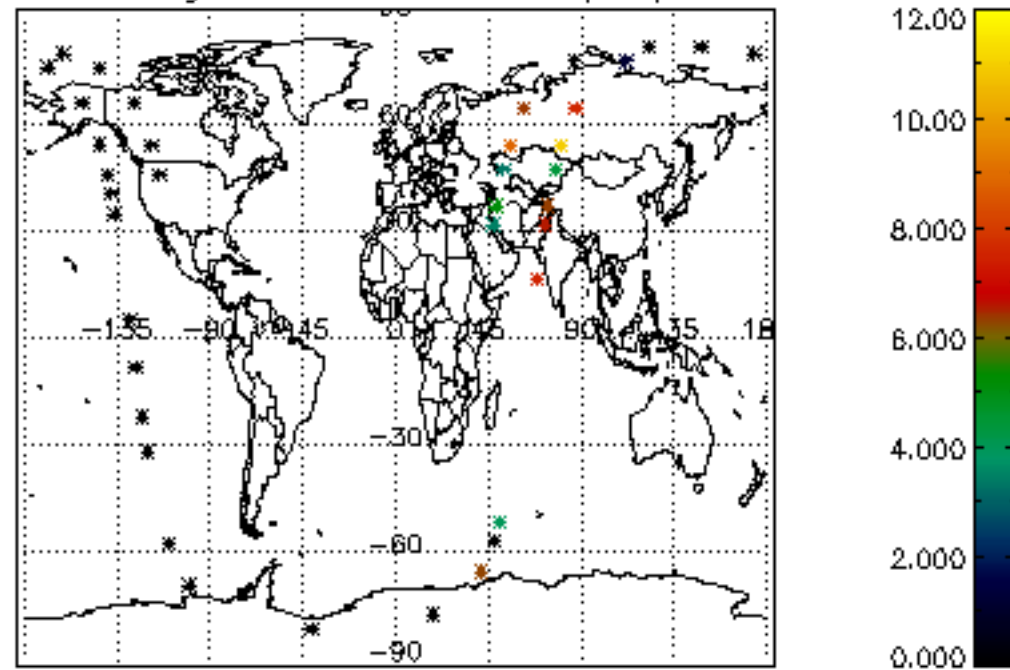
Percentage of datation errors per profile



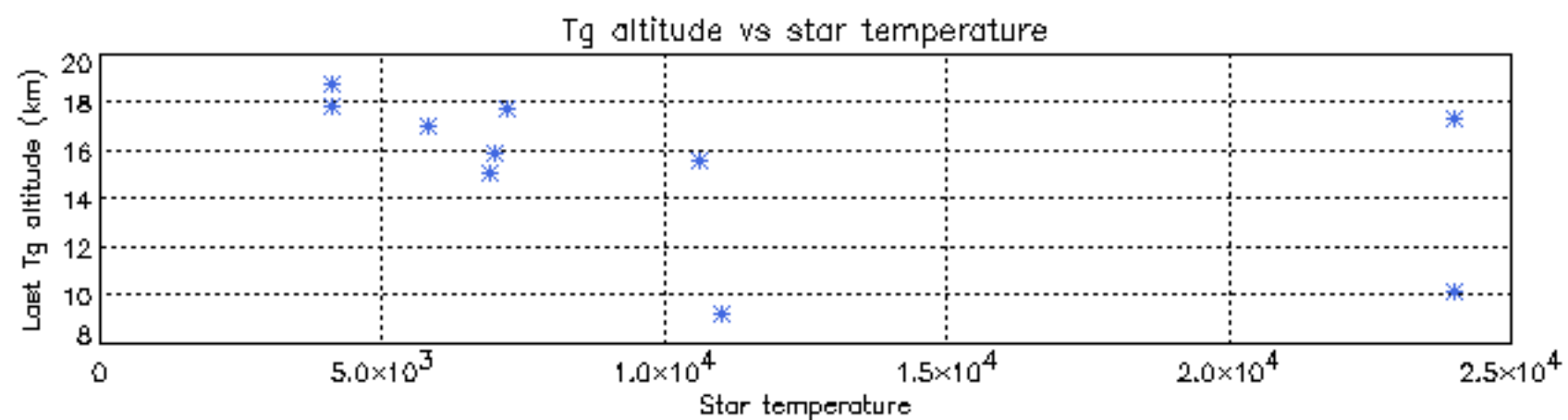
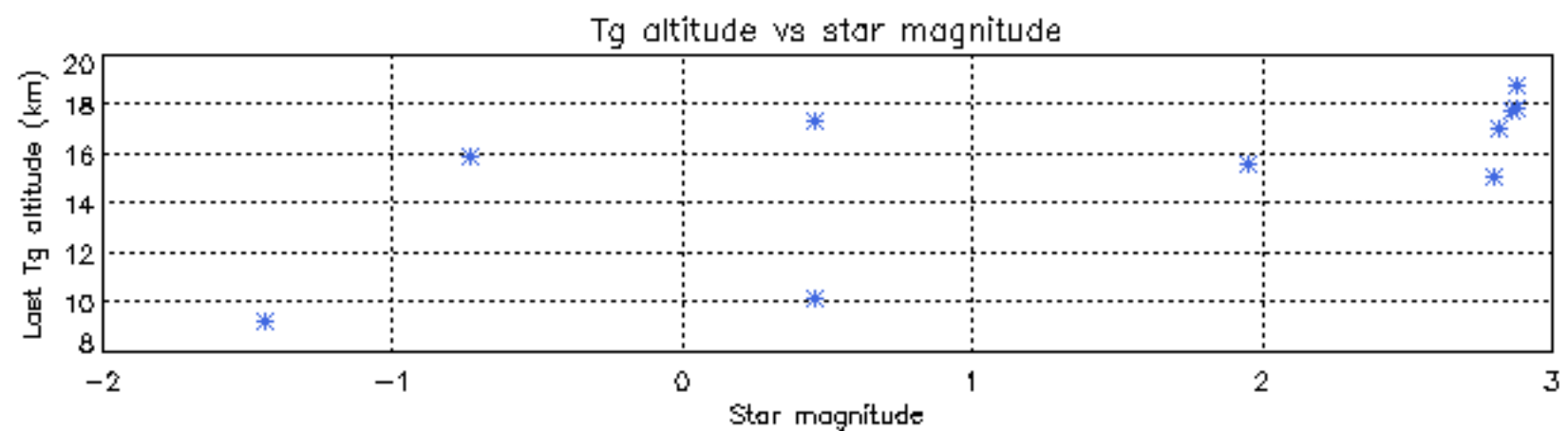
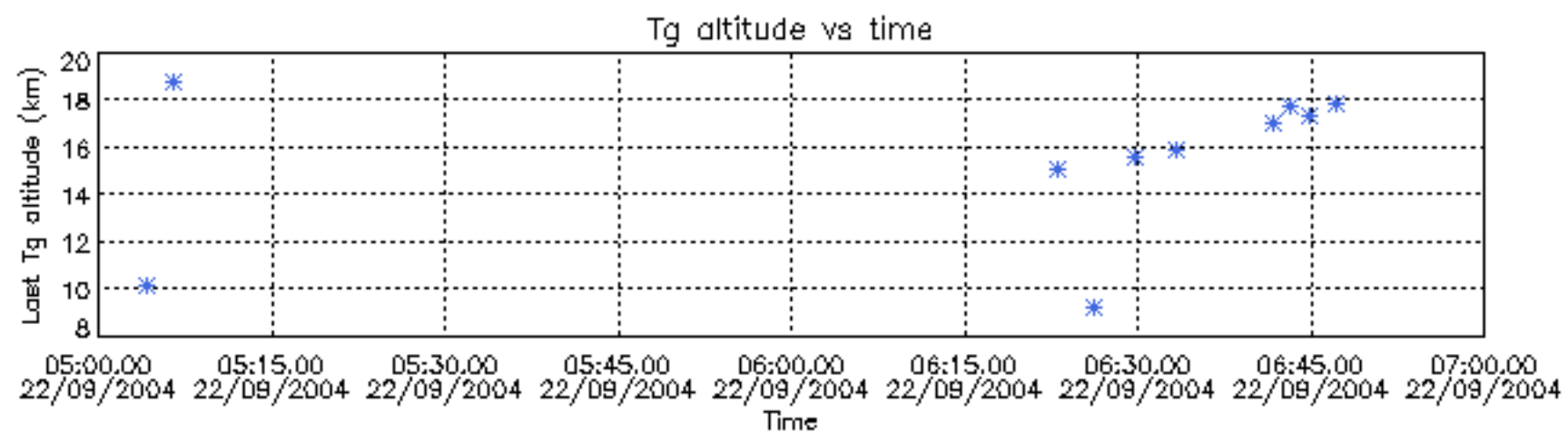
Percentage of star falling outside central band per profile



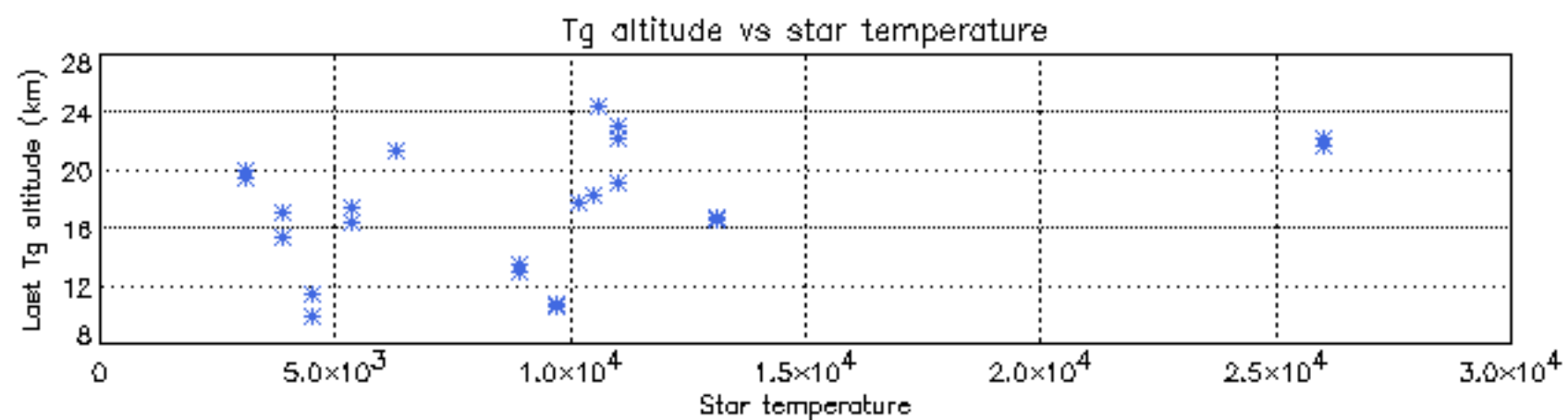
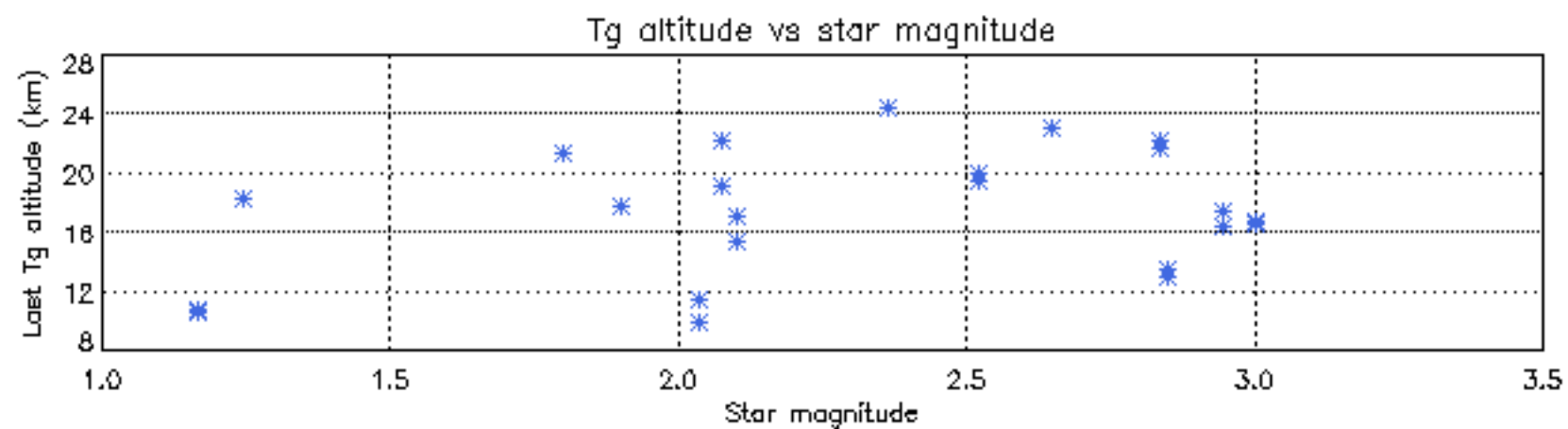
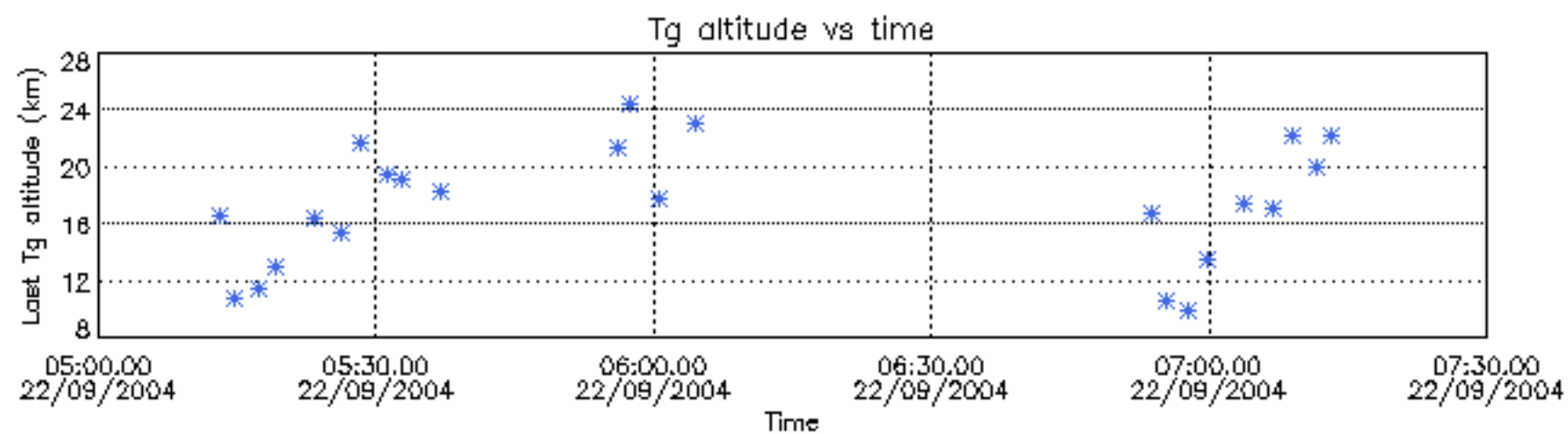
Percentage of saturation errors per profile



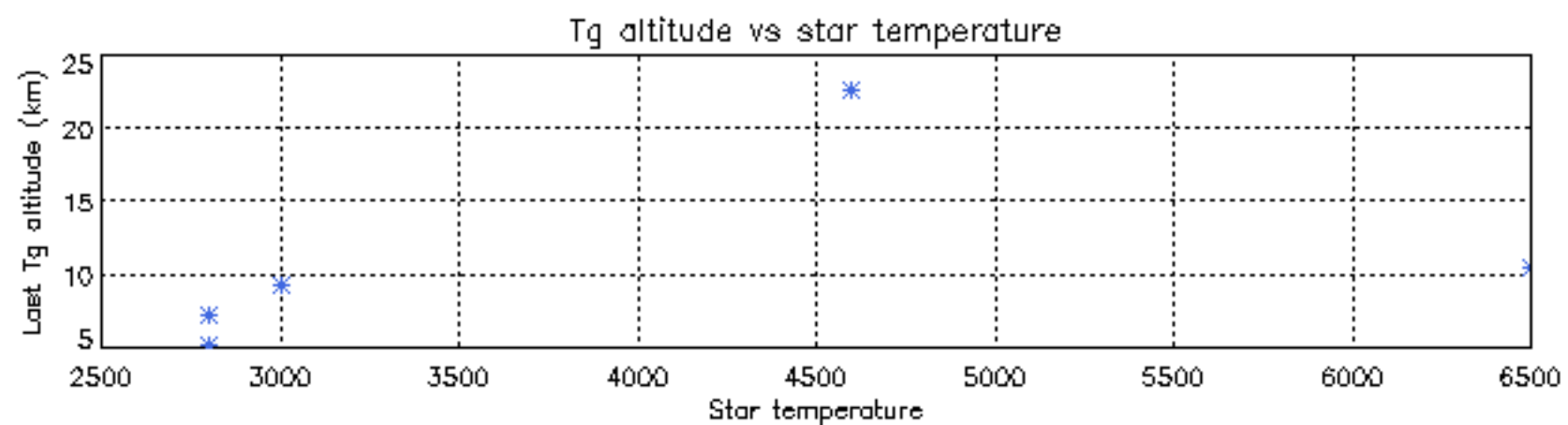
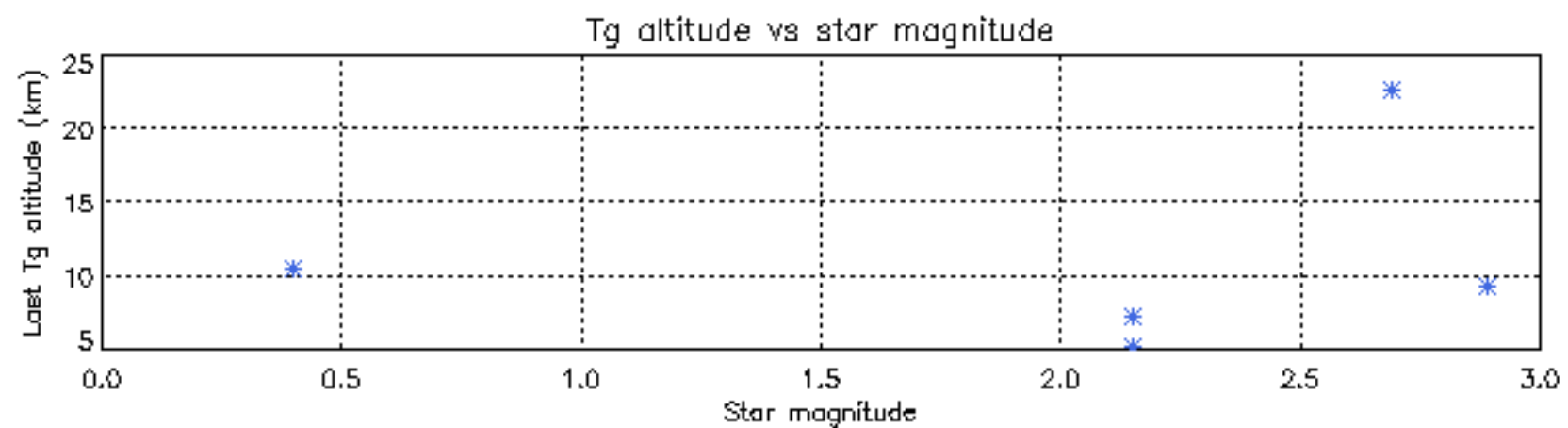
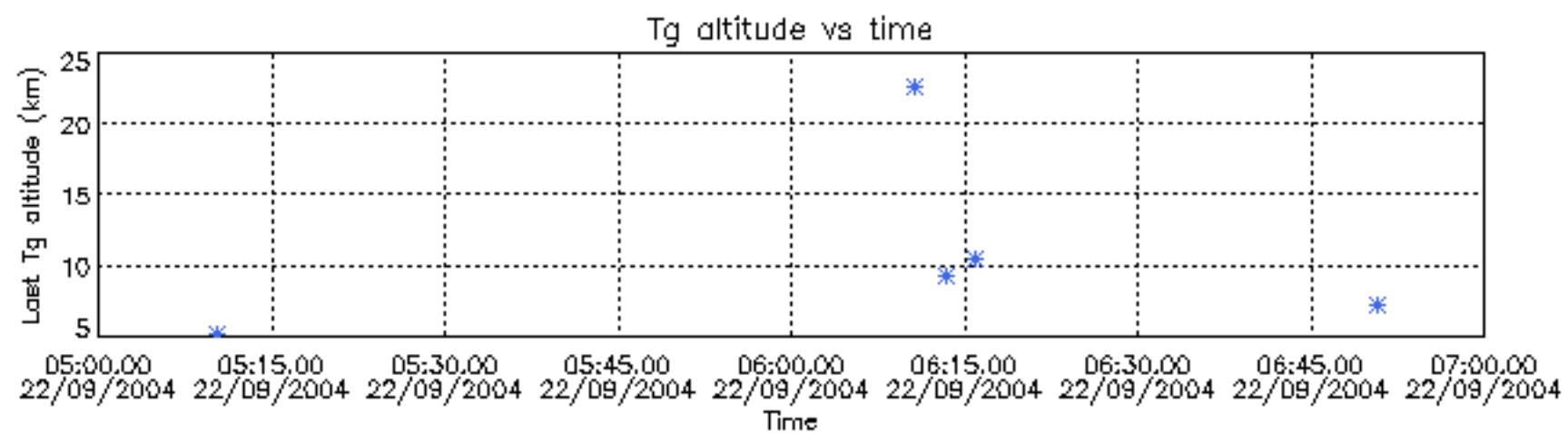
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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23; 2968.2; 08-SEP-2004 23:06:24; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;13210
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 32; 4649.4; 08-SEP-2004 23:34:25; Dark ; 87.0; 28; 12Bet Tau ; 1.65; 15200;occ; 174; 0;13210
 33; 4844.0; 08-SEP-2004 23:37:40; Dark ; 62.0; 44; 24Gam Gem ; 1.93; 11000;occ; 124; 0;13210
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 23; 3190.5; 09-SEP-2004 00:50:42; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;13211
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34; 1116.4; 11-SEP-2004 15:58:53; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;13249
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11;	-3282.9;	11-SEP-2004	16:26:10;	Bright;		38.5;	144;	18Del Cyg	;	2.86;	11000;occ;	77;	0;	13249
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18;	-2179.4;	11-SEP-2004	16:44:33;	Bright;		36.5;	36;	50Alp UMa	;	1.80;	6300;occ;	73;	0;	13249
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20;	-1935.0;	11-SEP-2004	16:48:37;	Bright;		70.0;	6;	13Alp Aur	;	0.08;	3400;occ;	140;	0;	13249
21;	-1367.2;	11-SEP-2004	16:58:05;	Dark	;	100.0;	28;	12Bet Tau	;	1.65;	15200;occ;	200;	0;	13249
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23;	-1062.8;	11-SEP-2004	17:03:10;	Dark	;	51.0;	8;	10Alp CMi	;	0.40;	6500;occ;	102;	0;	13249
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25;	-544.4;	11-SEP-2004	17:11:48;	Dark	;	61.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	123;	0;	13249
26;	-399.8;	11-SEP-2004	17:14:13;	Dark	;	48.0;	23;	21Eps CMA	;	1.50;	26000;occ;	96;	0;	13249
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29;	-89.8;	11-SEP-2004	17:19:23;	Dark	;	45.5;	161;	Tau Pup	;	2.93;	4500;occ;	91;	0;	13249
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