

GOMOS Daily Report 22-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	24JUN2004 14:41:57
Data source version	GOMOS/4.02
Start time of products	22-JUN-2004 (22JUN2004 00:00:00)
Stop time of products	23-JUN-2004 (23JUN2004 00:00:00)

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

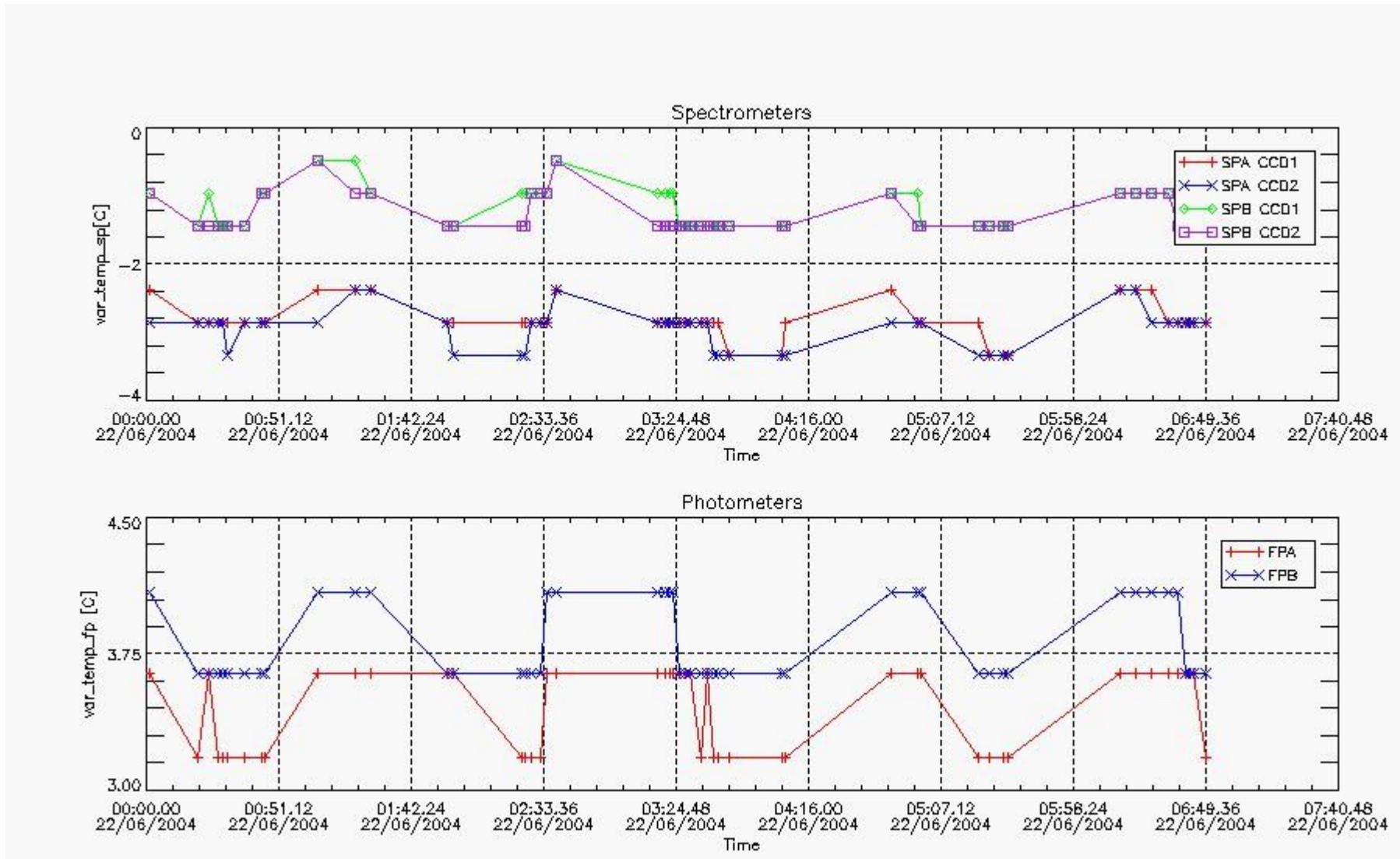
2. Summary of products arrived in PCF

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_1PNPDE20040622_000102_000000402028_00002_12080_0005.N1	22-JUN-2004 00:01:02	Bright	40.000	25	35Lam Sco	1.6200	28000.	80	12080	No
GOM_TRA_1PNPDE20040622_002001_000000362028_00002_12080_0014.N1	22-JUN-2004 00:20:01	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	12080	No
GOM_TRA_1PNPDE20040622_002417_000000352028_00002_12080_0015.N1	22-JUN-2004 00:24:17	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	12080	No
GOM_TRA_1PNPDE20040622_002735_000000382028_00002_12080_0016.N1	22-JUN-2004 00:27:35	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	12080	No
GOM_TRA_1PNPDE20040622_002932_000000362028_00002_12080_0017.N1	22-JUN-2004 00:29:32	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	12080	No
GOM_TRA_1PNPDE20040622_003106_000000532028_00002_12080_0018.N1	22-JUN-2004 00:31:06	Bright	53.000	144	18Del Cyg	2.8600	11000.	106	12080	No
GOM_TRA_1PNPDE20040622_003744_000000362028_00002_12080_0020.N1	22-JUN-2004 00:37:44	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	12080	No
GOM_TRA_1PNPDE20040622_004422_000000452028_00002_12080_0021.N1	22-JUN-2004 00:44:22	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	12080	No
GOM_TRA_1PNPDE20040622_004553_000000652028_00002_12080_0022.N1	22-JUN-2004 00:45:53	Bright	65.000	68	18Alp Cas	2.2250	4500.0	130	12080	No
GOM_TRA_1PNPDE20040622_010632_000000402028_00002_12080_0000.N1	22-JUN-2004 01:06:32	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	12080	No
GOM_TRA_1PNPDE20040622_012034_000000392028_00002_12080_0002.N1	22-JUN-2004 01:20:34	Dark	38.500	9	Alp Eri	0.45300	24000.	77	12080	No
GOM_TRA_1PNPDE20040622_012649_000000732028_00003_12081_0003.N1	22-JUN-2004 01:26:49	Dark	72.500	18	24Alp PsA	1.1660	9700.0	145	12081	No
GOM_TRA_1PNPDE20040622_015630_000000382028_00003_12081_0015.N1	22-JUN-2004 01:56:30	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	12081	No
GOM_TRA_1PNPDE20040622_015848_000000352028_00003_12081_0016.N1	22-JUN-2004 01:58:48	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	12081	No
GOM_TRA_1PNPDE20040622_022457_000000462028_00003_12081_0000.N1	22-JUN-2004 02:24:57	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	12081	No
GOM_TRA_1PNPDE20040622_022629_000000452028_00003_12081_0001.N1	22-JUN-2004 02:26:29	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	12081	No
GOM_TRA_1PNPDE20040622_022839_000000462028_00003_12081_0002.N1	22-JUN-2004 02:28:39	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	12081	No
GOM_TRA_1PNPDE20040622_023205_000000432028_00003_12081_0003.N1	22-JUN-2004 02:32:05	Twilight	43.000	73	57Gam1And	2.2600	13100.	86	12081	No
GOM_TRA_1PNPDE20040622_023431_000000702028_00003_12081_0004.N1	22-JUN-2004 02:34:31	Twilight	69.500	53	43Bet And	2.0480	3300.0	139	12081	No
GOM_TRA_1PNPDE20040622_023818_000000512028_00003_12081_0005.N1	22-JUN-2004 02:38:18	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	12081	No
GOM_TRA_1PNPDE20040622_031722_000000382028_00004_12082_0012.N1	22-JUN-2004 03:17:22	Bright	38.000	141	Bet Ara	2.8400	4600.0	76	12082	No
GOM_TRA_1PNPDE20040622_032033_000000402028_00004_12082_0014.N1	22-JUN-2004 03:20:33	Bright	39.500	40	The Sco	1.8590	7100.0	79	12082	No
GOM_TRA_1PNPDE20040622_032214_000000402028_00004_12082_0015.N1	22-JUN-2004 03:22:14	Bright	39.500	25	35Lam Sco	1.6200	28000.	79	12082	No
GOM_TRA_1PNPDE20040622_032335_000000442028_00004_12082_0016.N1	22-JUN-2004 03:23:35	Bright	43.500	116	19Del Sgr	2.7000	4100.0	87	12082	No
GOM_TRA_1PNPDE20040622_032546_000000492028_00004_12082_0017.N1	22-JUN-2004 03:25:46	Bright	49.000	155	41Pi Sgr	2.9000	6600.0	98	12082	No
GOM_TRA_1PNPDE20040622_032836_000000372028_00004_12082_0018.N1	22-JUN-2004 03:28:36	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	12082	No
GOM_TRA_1PNPDE20040622_033020_000000352028_00004_12082_0019.N1	22-JUN-2004 03:30:20	Bright	34.500	98	13Zet Oph	2.5710	30000.	69	12082	No
GOM_TRA_1PNPDE20040622_033441_000000392028_00004_12082_0021.N1	22-JUN-2004 03:34:41	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12082	No
GOM_TRA_1PNPDE20040622_033706_000000412028_00004_12082_0022.N1	22-JUN-2004 03:37:06	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	12082	No
GOM_TRA_1PNPDE20040622_033924_000000382028_00004_12082_0023.N1	22-JUN-2004 03:39:24	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	12082	No
GOM_TRA_1PNPDE20040622_034114_000000372028_00004_12082_0024.N1	22-JUN-2004 03:41:14	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	12082	No
GOM_TRA_1PNPDE20040622_034529_000000362028_00004_12082_0025.N1	22-JUN-2004 03:45:29	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	12082	No
GOM_TRA_1PNPDE20040622_040533_000000462028_00004_12082_0000.N1	22-JUN-2004 04:05:33	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	12082	No
GOM_TRA_1PNPDE20040622_040704_000000452028_00004_12082_0001.N1	22-JUN-2004 04:07:04	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	12082	No
GOM_TRA_1PNPDE20040622_044805_000000772028_00005_12083_0010.N1	22-JUN-2004 04:48:05	Dark	77.000	18	24Alp PsA	1.1660	9700.0	154	12083	No
GOM_TRA_1PNPDE20040622_045758_000000422028_00005_12083_0012.N1	22-JUN-2004 04:57:58	Bright	41.500	141	Bet Ara	2.8400	4600.0	83	12083	No
GOM_TRA_1PNPDE20040622_045923_000000362028_00005_12083_0013.N1	22-JUN-2004 04:59:23	Bright	35.500	147	Alp Ara	2.8770	26000.	71	12083	No
GOM_TRA_1PNPDE20040622_052150_000000362028_00005_12083_0024.N1	22-JUN-2004 05:21:50	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	12083	No
GOM_TRA_1PNPDE20040622_052605_000000352028_00005_12083_0025.N1	22-JUN-2004 05:26:05	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	12083	No
GOM_TRA_1PNPDE20040622_053119_000000362028_00005_12083_0027.N1	22-JUN-2004 05:31:19	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	12083	No
GOM_TRA_1PNPDE20040622_053250_000000512028_00005_12083_0028.N1	22-JUN-2004 05:32:50	Bright	51.000	144	18Del Cyg	2.8600	11000.	102	12083	No
GOM_TRA_1PNPDE20040622_061642_000000622028_00005_12083_0008.N1	22-JUN-2004 06:16:42	Dark	61.500	52	16Bet Cet	2.0370	4500.0	123	12083	No
GOM_TRA_1PNPDE20040622_062223_000000382028_00005_12083_0009.N1	22-JUN-2004 06:22:23	Dark	38.000	9	Alp Eri	0.45300	24000.	76	12083	No
GOM_TRA_1PNPDE20040622_062843_000000782028_00006_12084_0010.N1	22-JUN-2004 06:28:43	Dark	77.500	18	24Alp PsA	1.1660	9700.0	155	12084	No
GOM_TRA_1PNPDE20040622_063521_000000512028_00006_12084_0011.N1	22-JUN-2004 06:35:21	Twilight	50.500	43	Alp TrA	1.9100	4250.0	101	12084	No
GOM_TRA_1PNPDE20040622_063834_000000402028_00006_12084_0012.N1	22-JUN-2004 06:38:34	Bright	39.500	141	Bet Ara	2.8400	4600.0	79	12084	No
GOM_TRA_1PNPDE20040622_064145_000000452028_00006_12084_0014.N1	22-JUN-2004 06:41:45	Bright	44.500	40	The Sco	1.8590	7100.0	89	12084	No
GOM_TRA_1PNPDE20040622_064326_000000402028_00006_12084_0015.N1	22-JUN-2004 06:43:26	Bright	39.500	25	35Lam Sco	1.6200	28000.	79	12084	No
GOM_TRA_1PNPDE20040622_064447_000000462028_00006_12084_0016.N1	22-JUN-2004 06:44:47	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	12084	No

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



4. Overview of dark signal processing per product

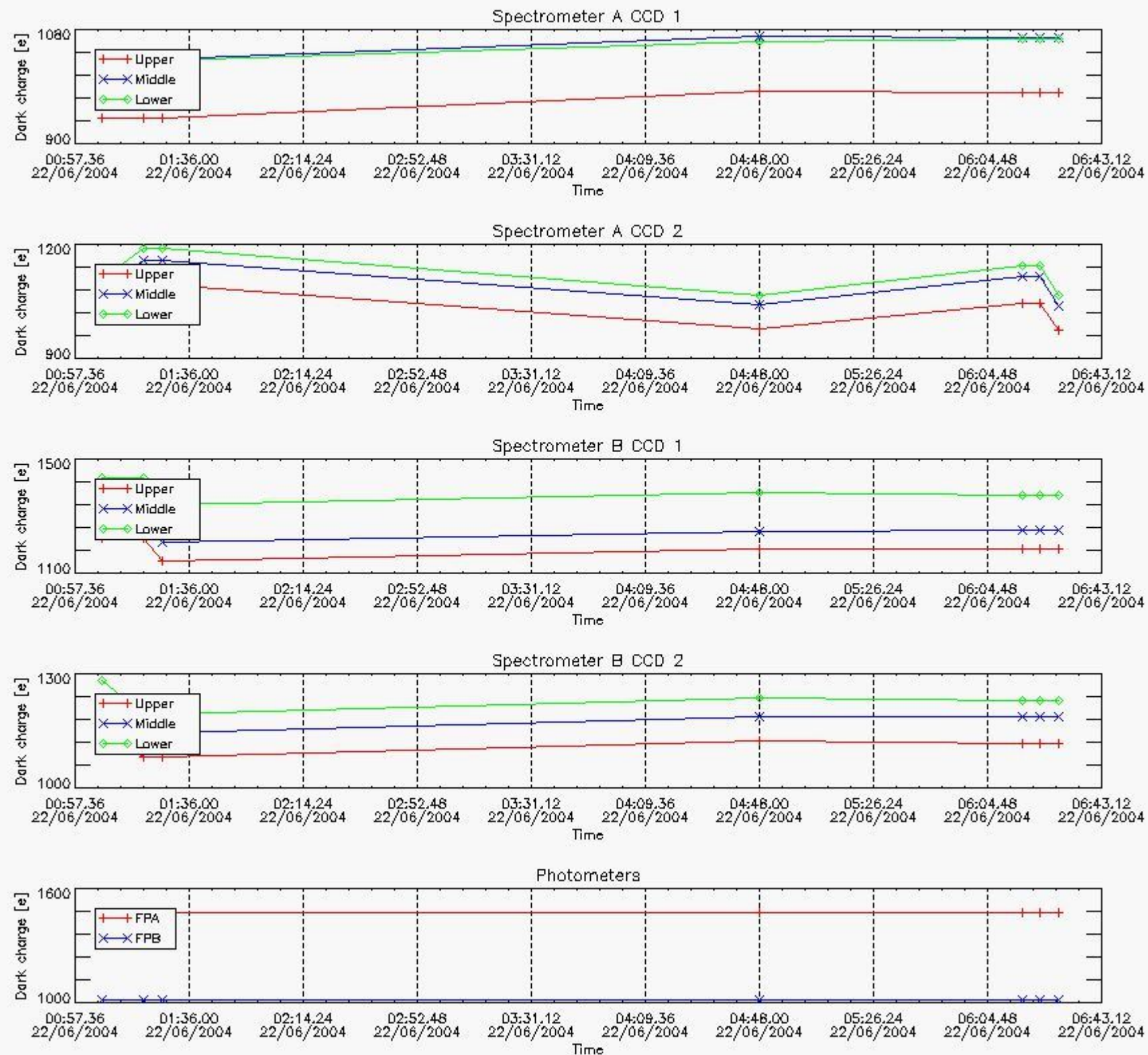
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20040622_000102_000000402028_00002_12080_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_002001_000000362028_00002_12080_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_002417_000000352028_00002_12080_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_002735_000000382028_00002_12080_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_002932_000000362028_00002_12080_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_003106_000000532028_00002_12080_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_003744_000000362028_00002_12080_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_004422_000000452028_00002_12080_0021.N1	DC map used (0)
GOM_TRA_1PNPDE20040622_004553_000000652028_00002_12080_0022.N1	DC map used (0)

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



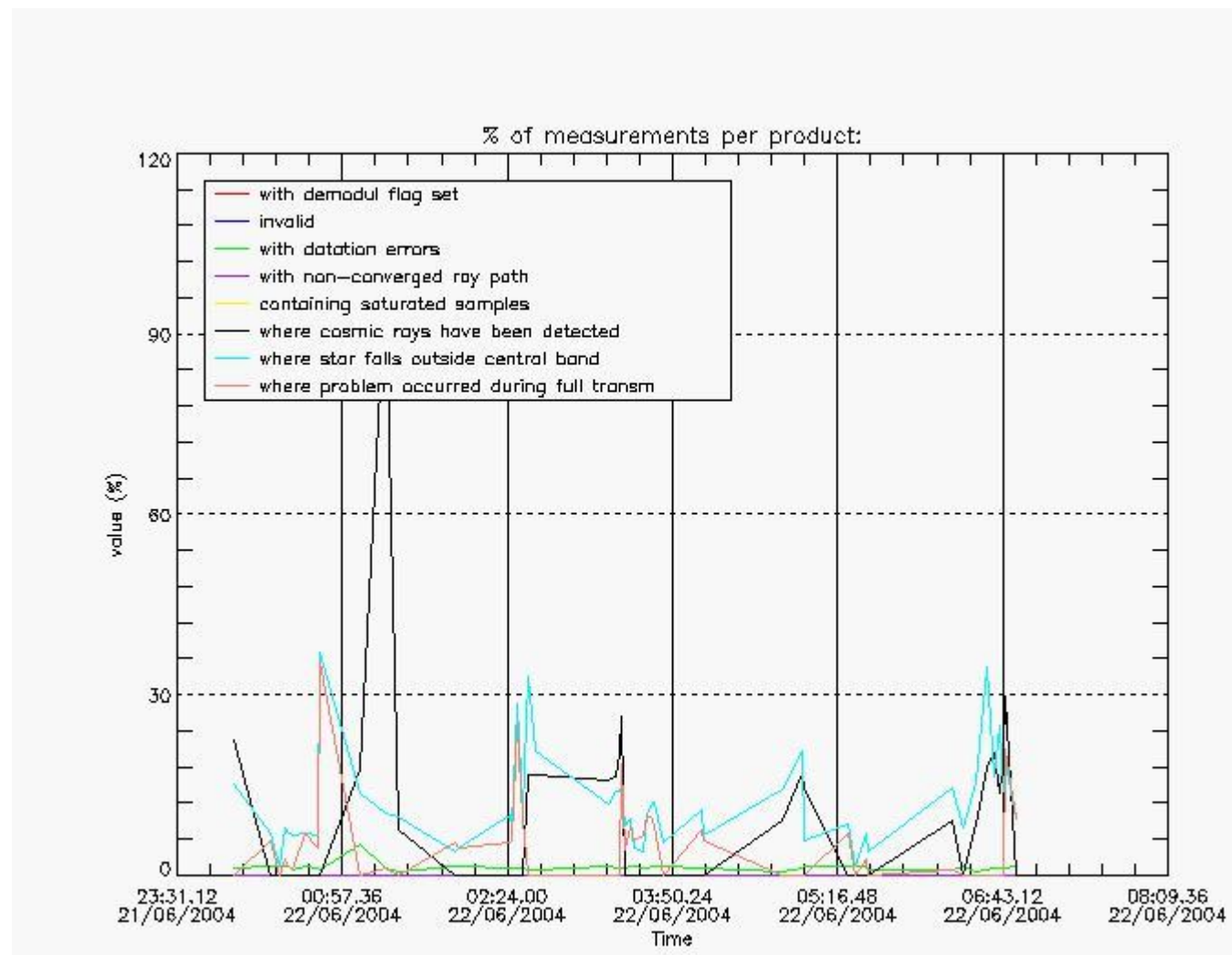
5. Demodulation flag and quality information monitoring

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.

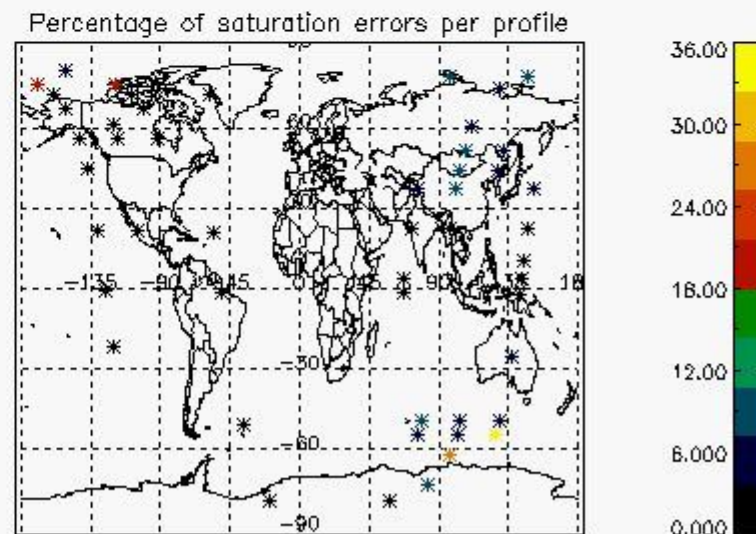
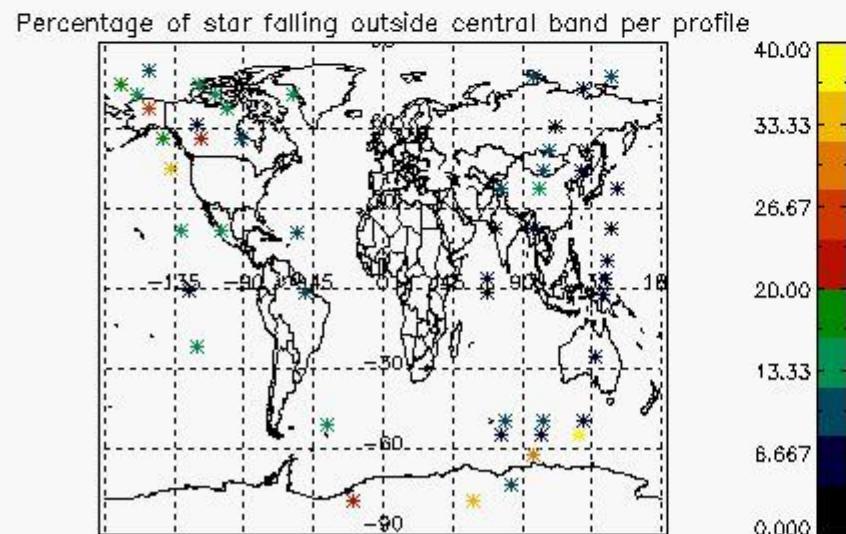
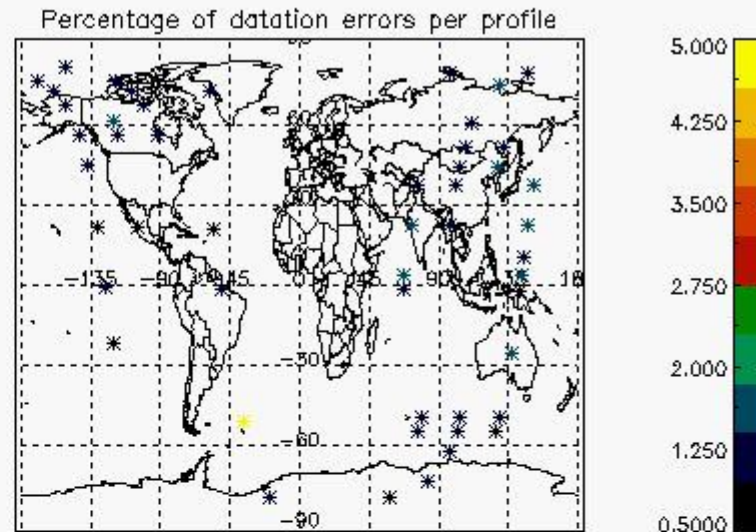
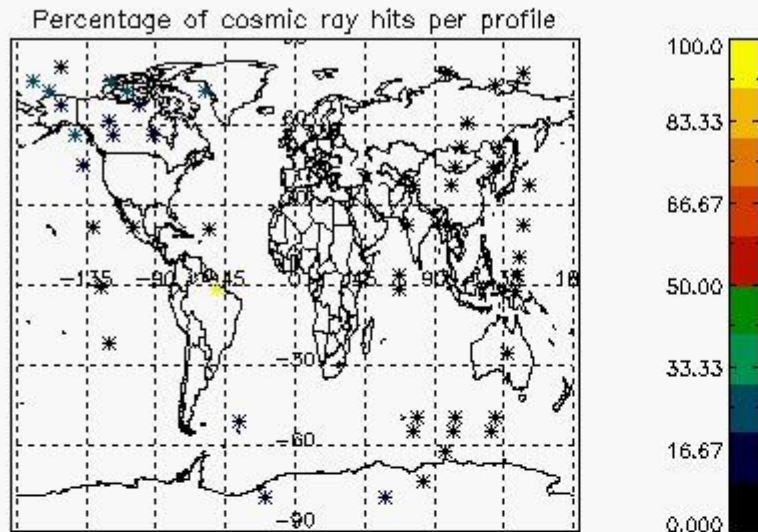
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	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)



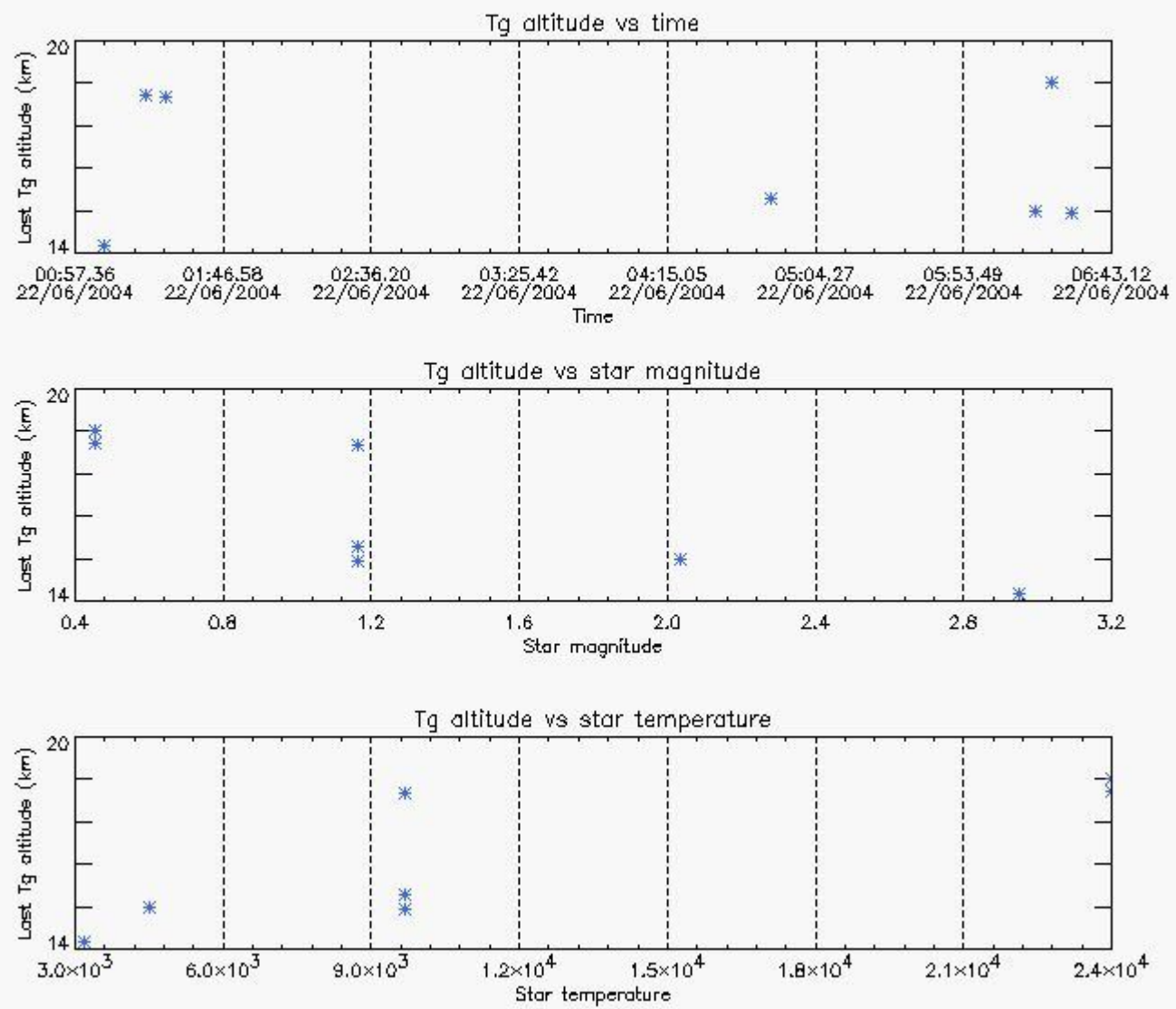
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.535	18.423	9.3358
St. deviation:	1.9448	4.4667	5.8126
Maximum:	18.837	25.706	16.840
Minimum:	14.199	3.4595	3.9859
Number of data:	7.0000	39.000	4.0000

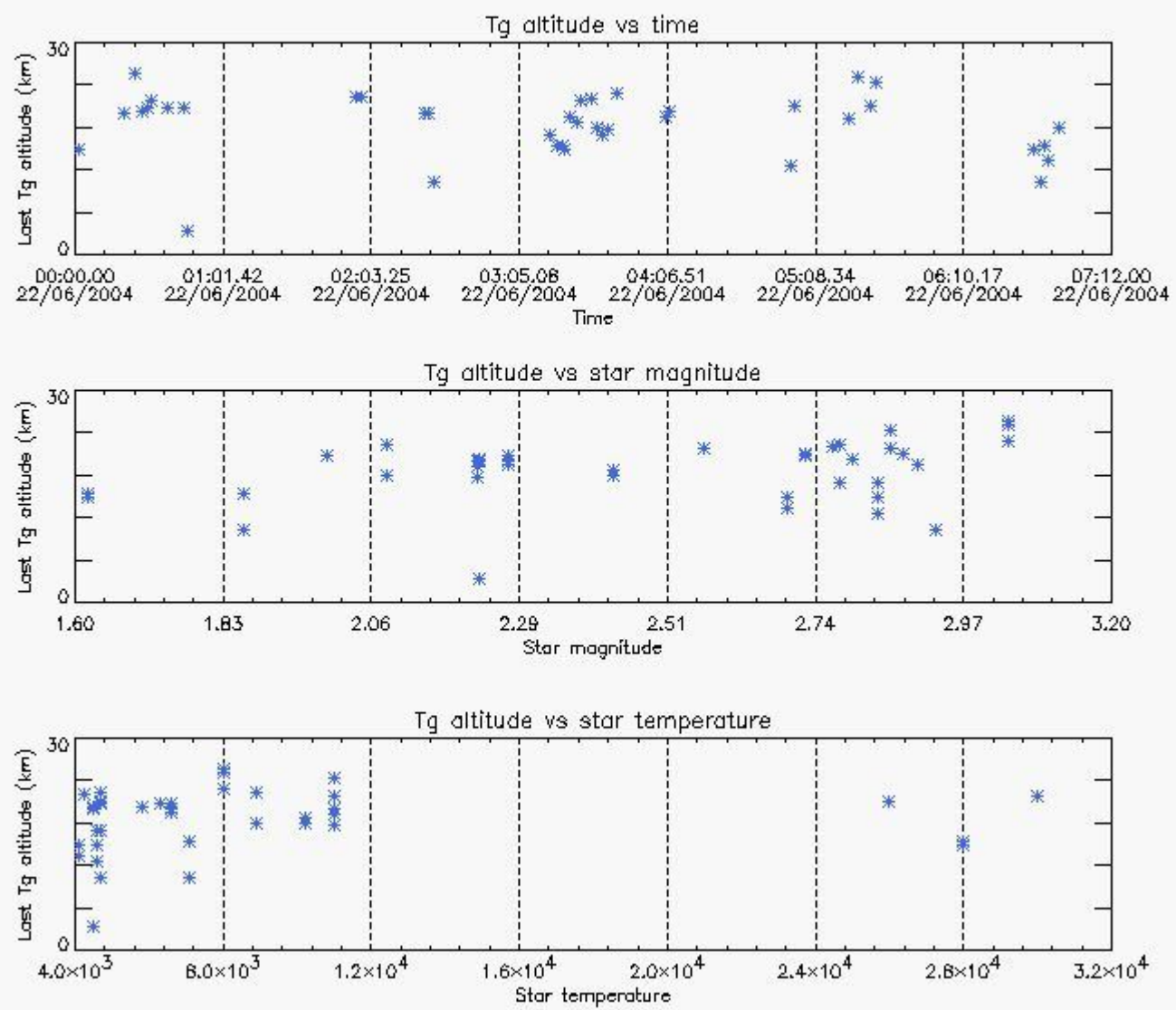
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



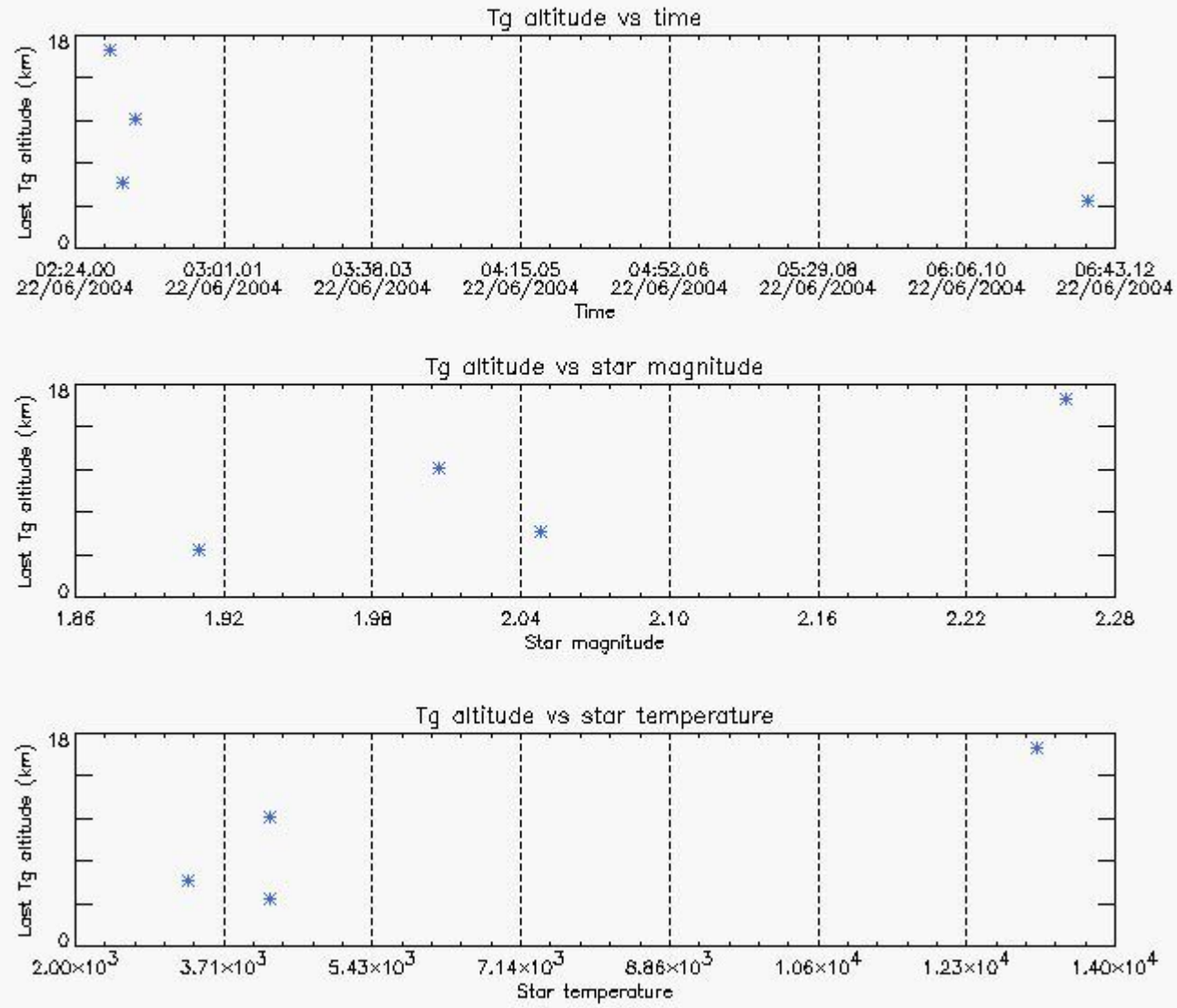
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

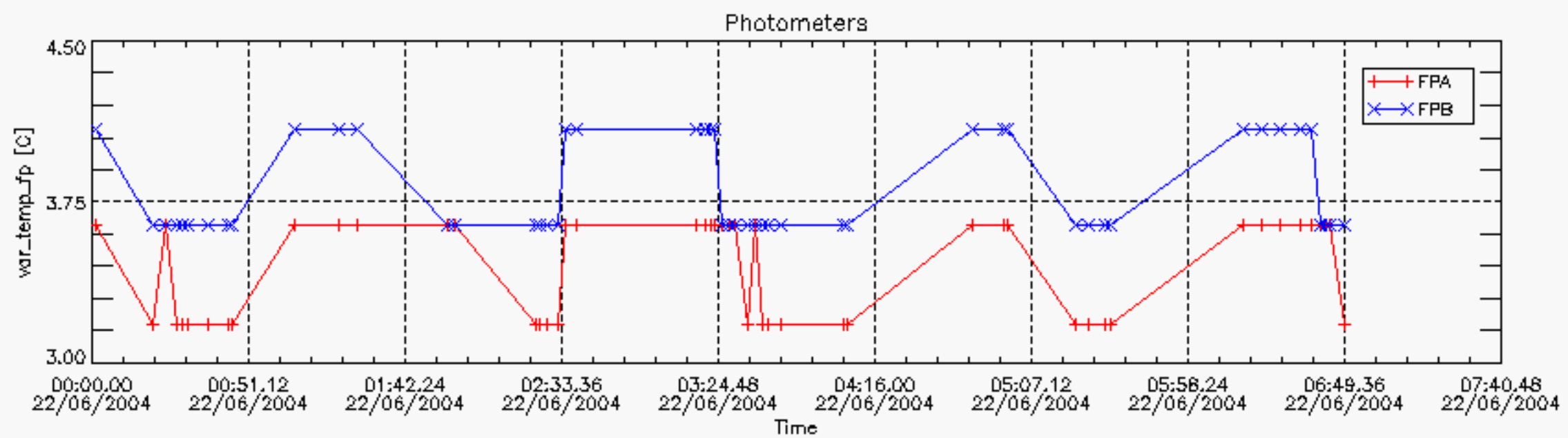
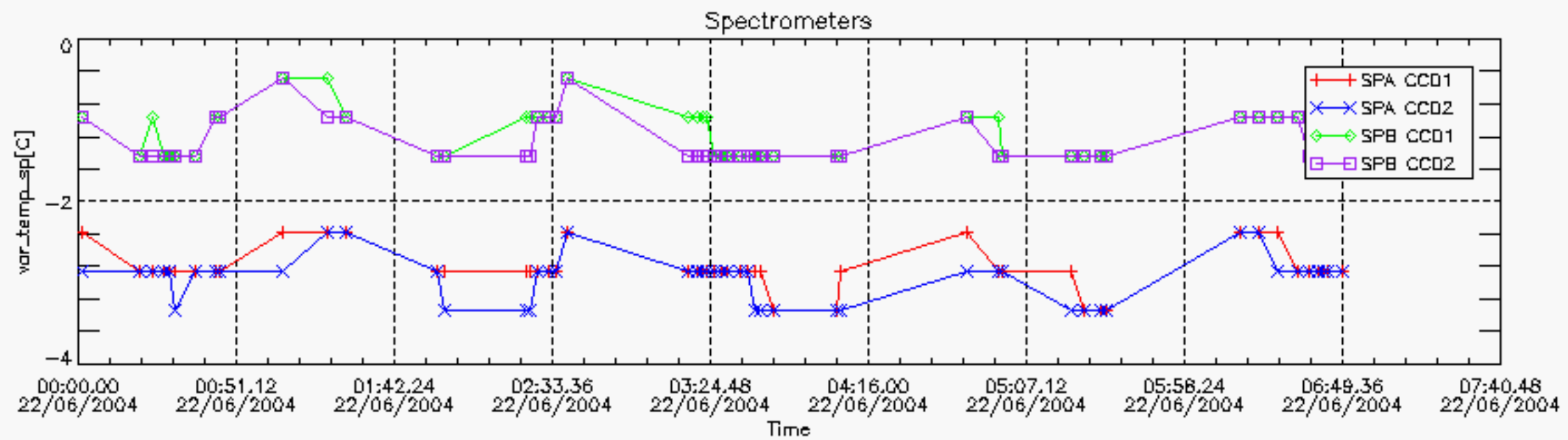
Tangent altitude at which the star is lost

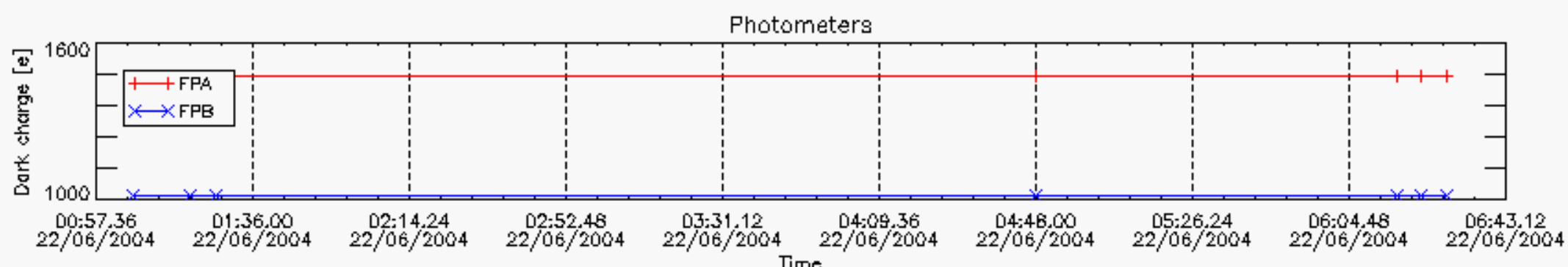
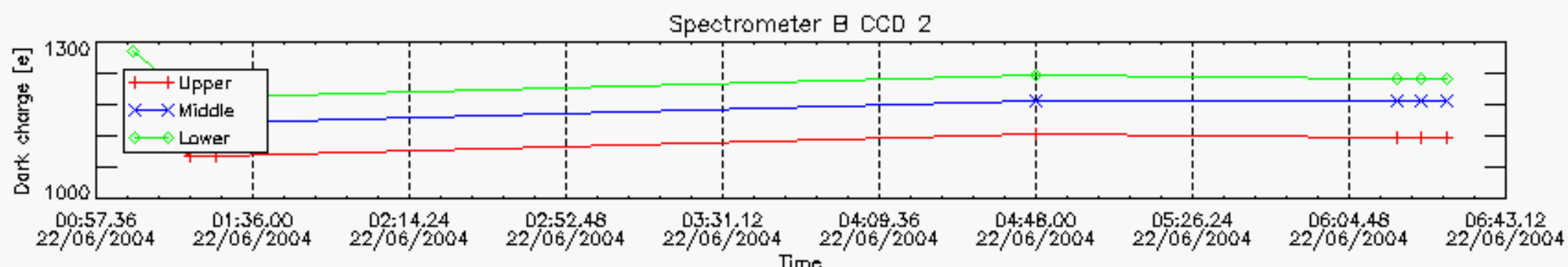
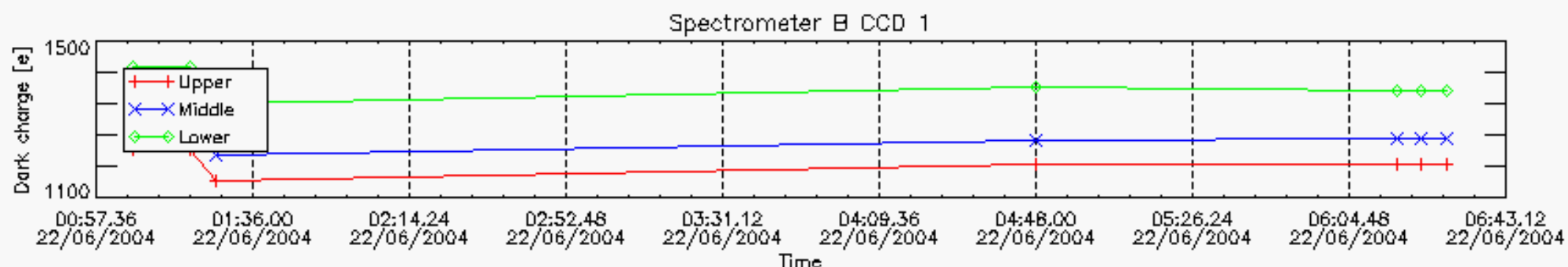
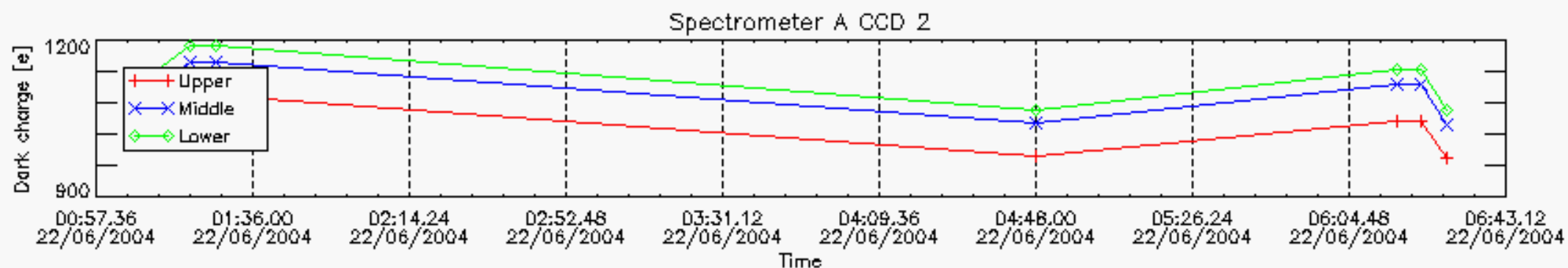
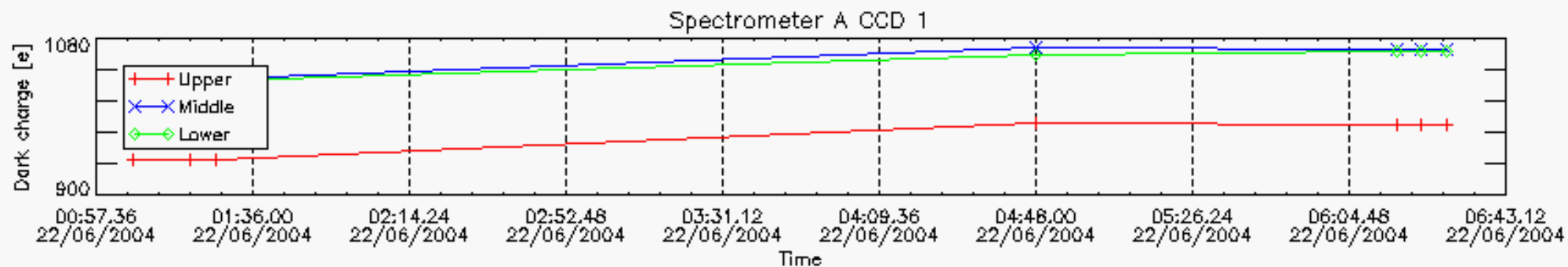


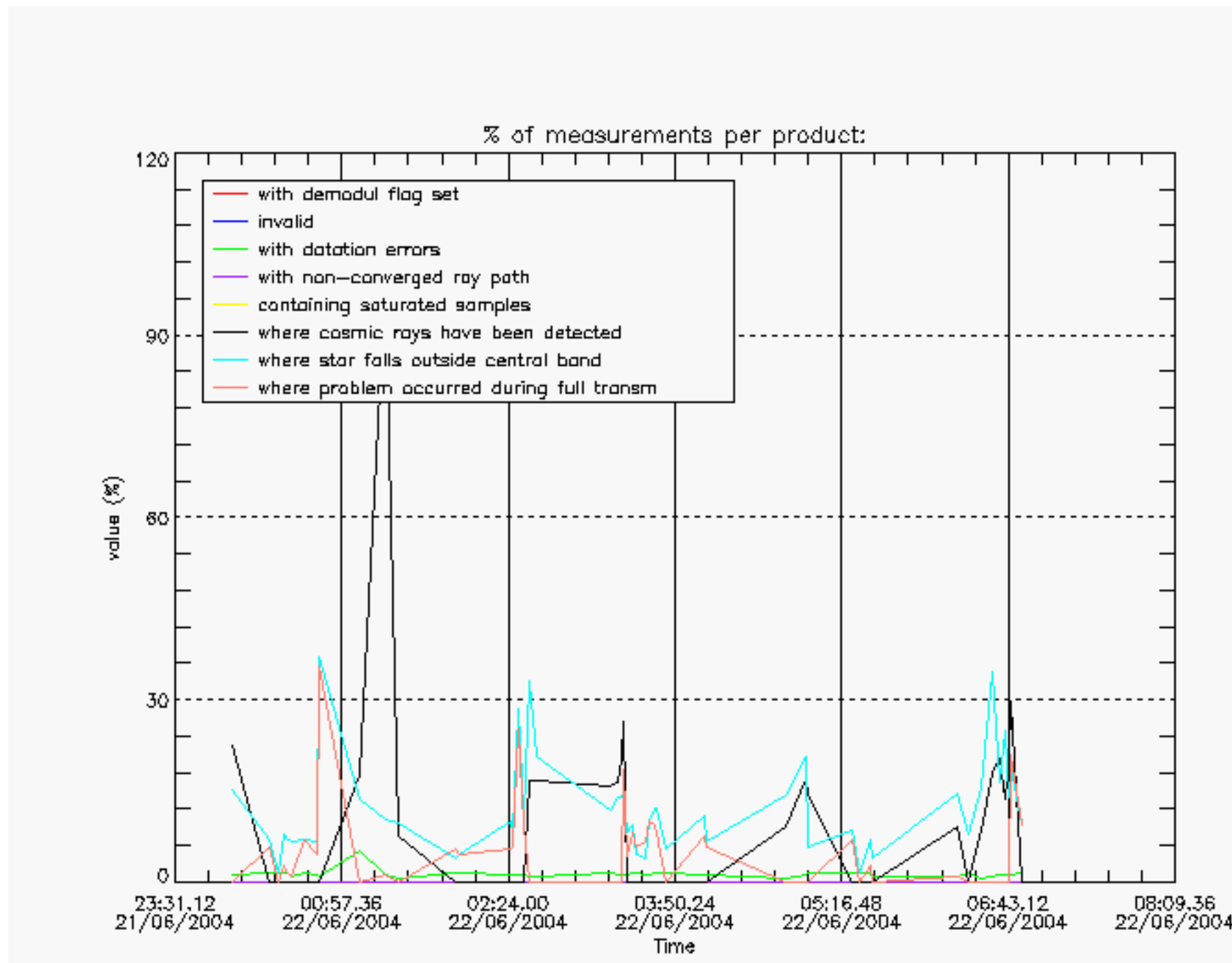
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

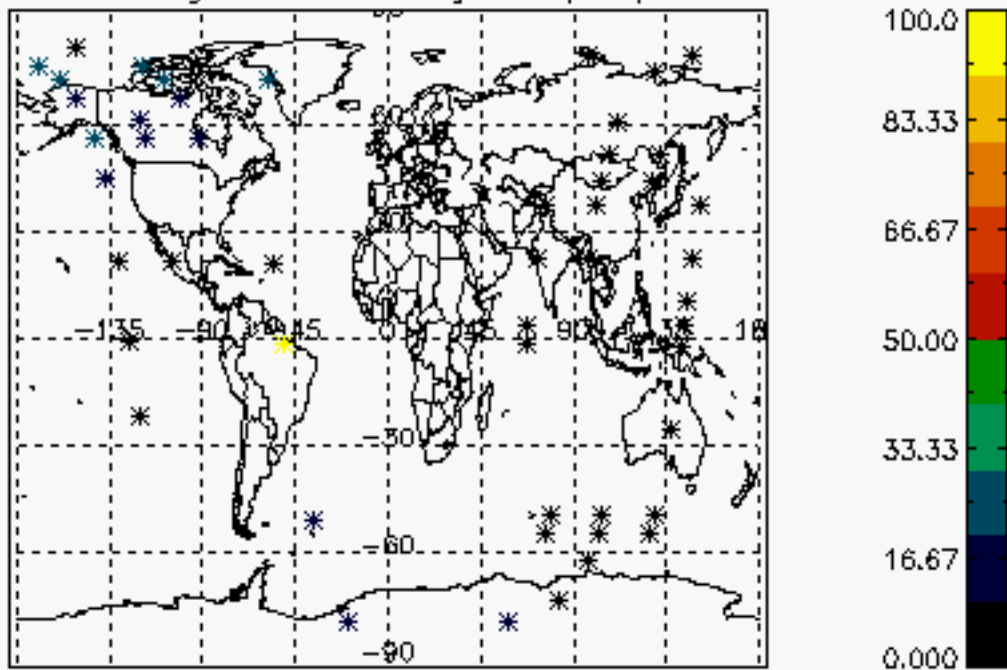
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.0	1448.4	1461.2	1446.9
St. deviation:	2.6002	4.2771	7.3927	8.7918
Maximum:	1474.0	1463.0	1517.0	1499.0
Minimum:	1455.0	1431.0	1435.0	1414.0
Number of data:	9550.0	9550.0	33350.	33350.



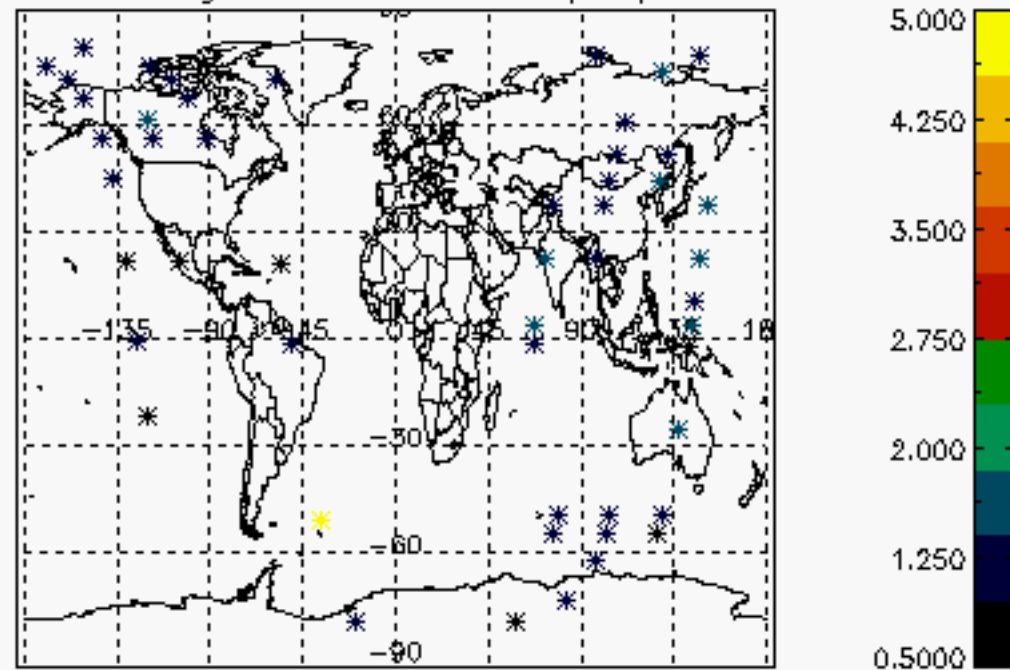




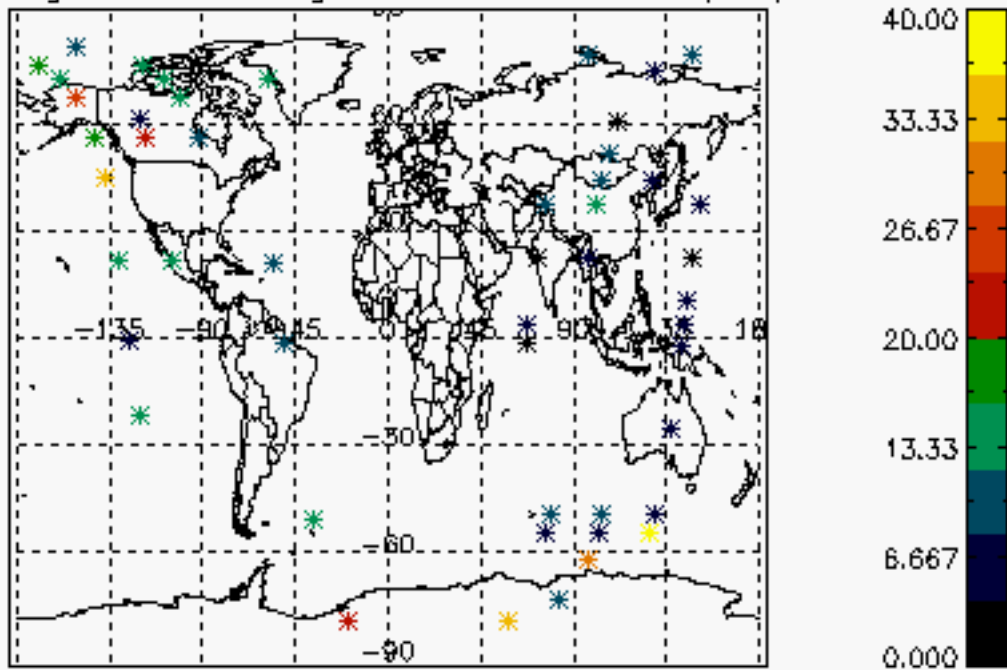
Percentage of cosmic ray hits per profile



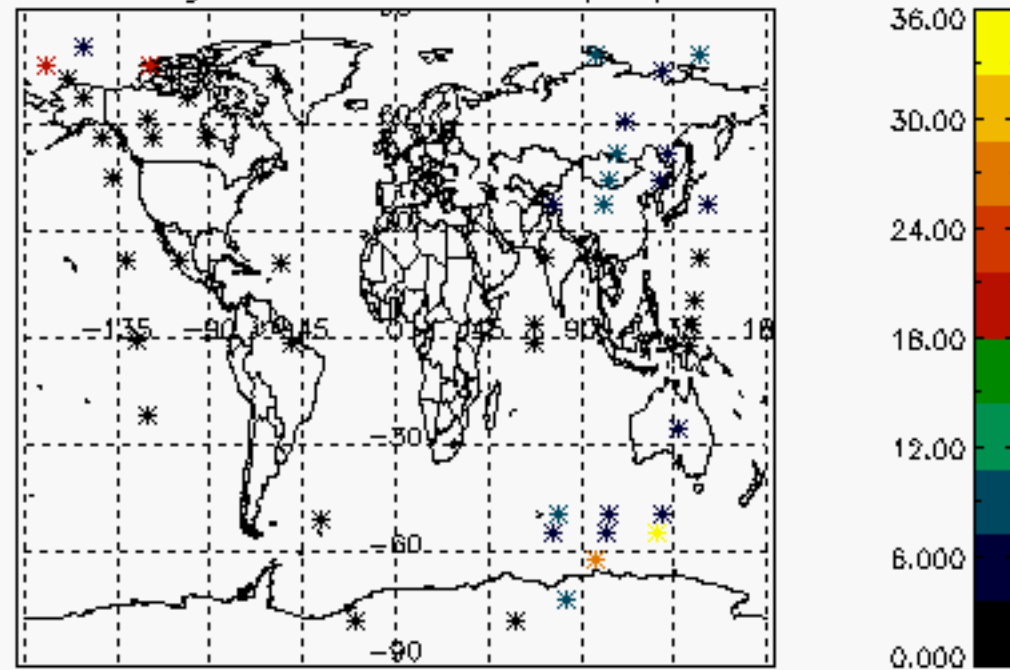
Percentage of datation errors per profile



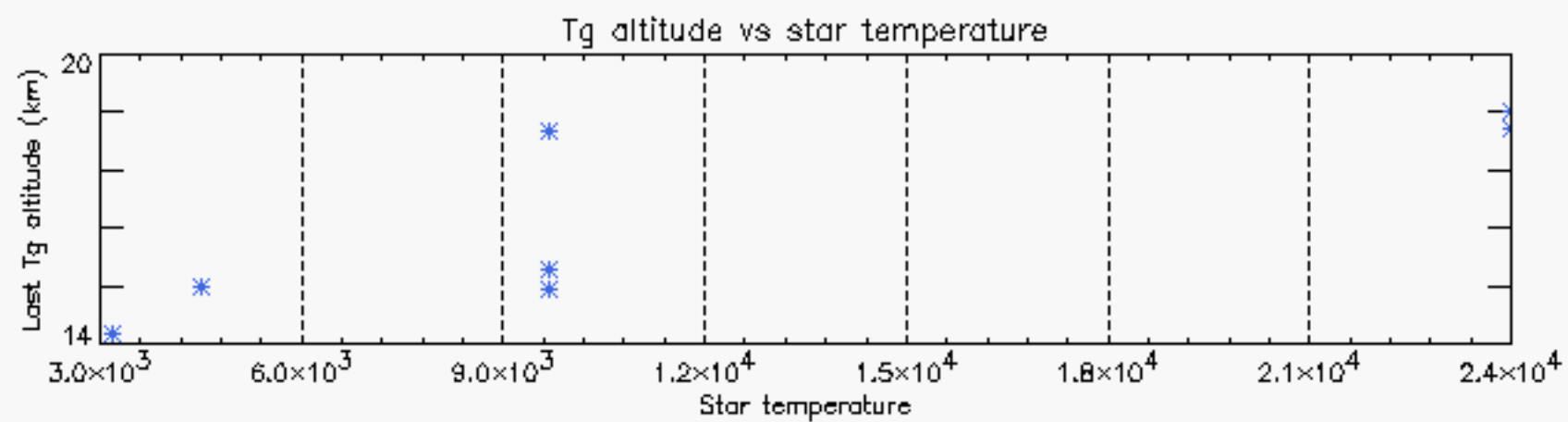
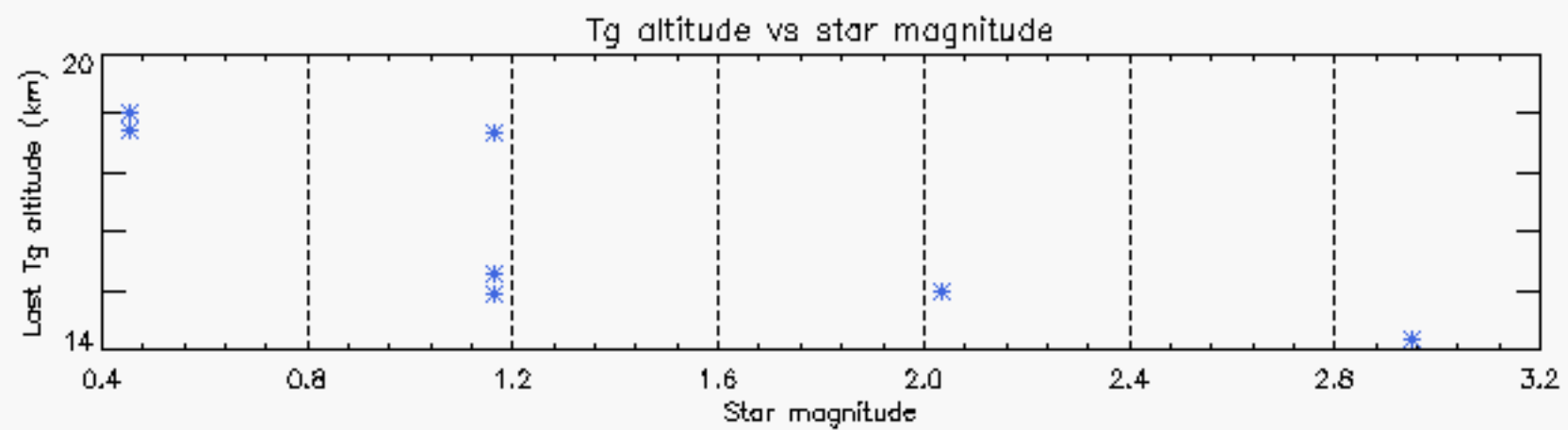
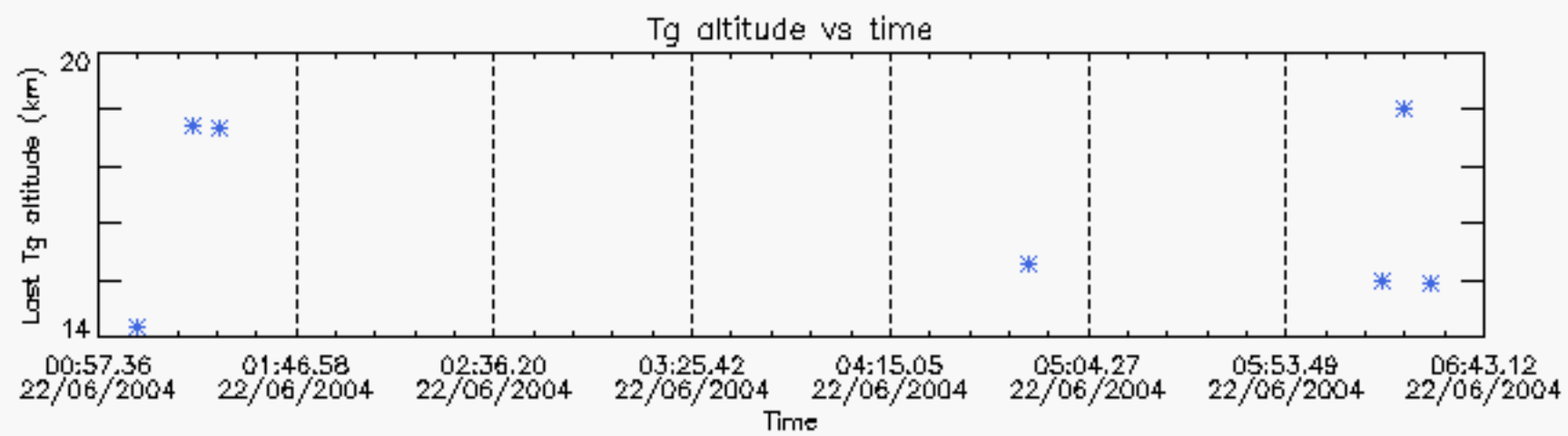
Percentage of star falling outside central band per profile



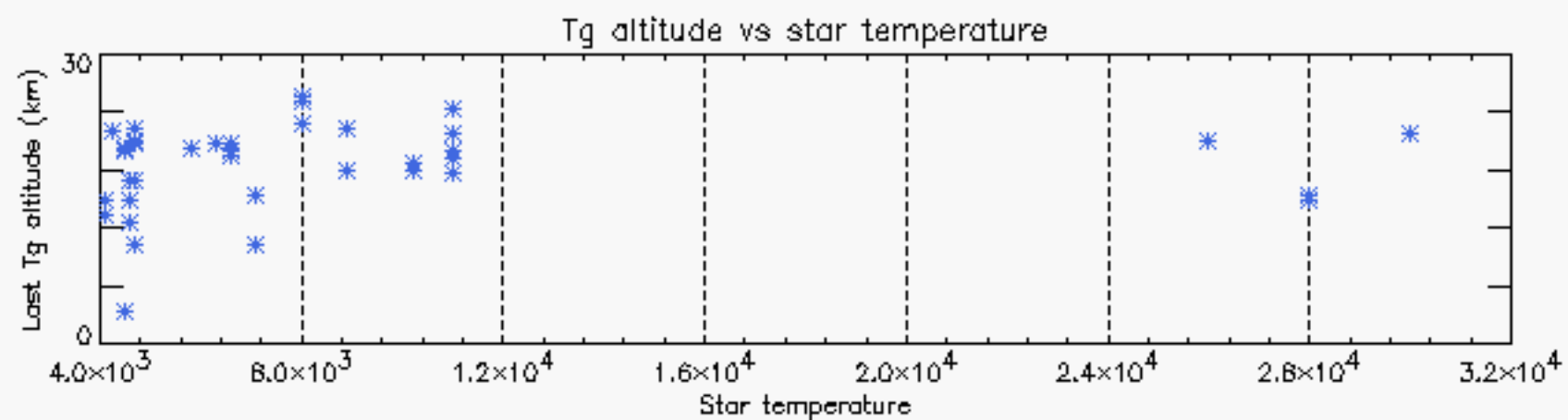
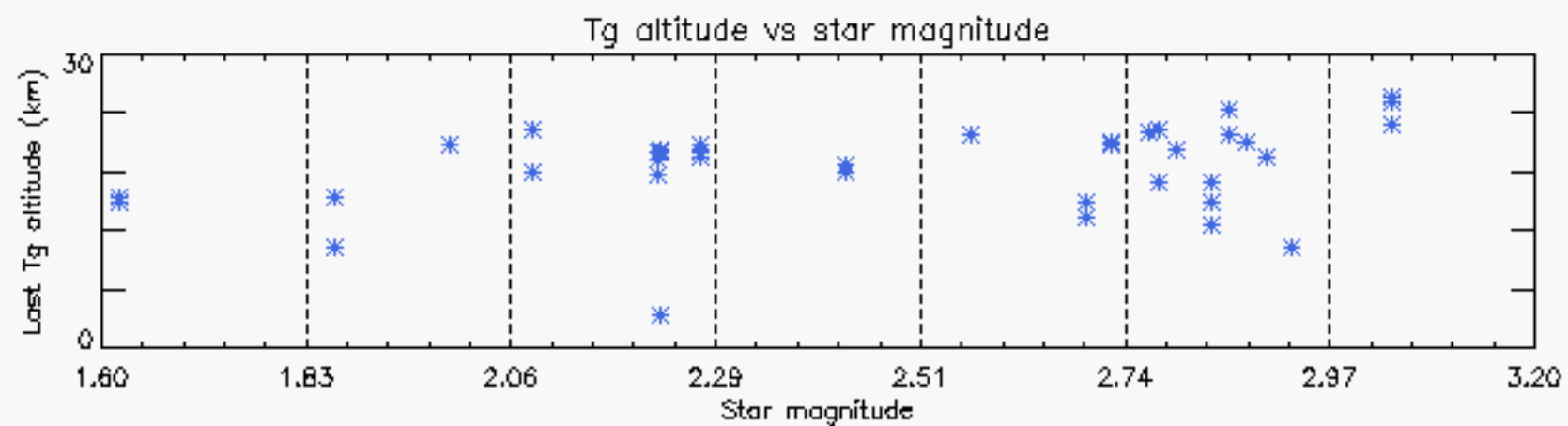
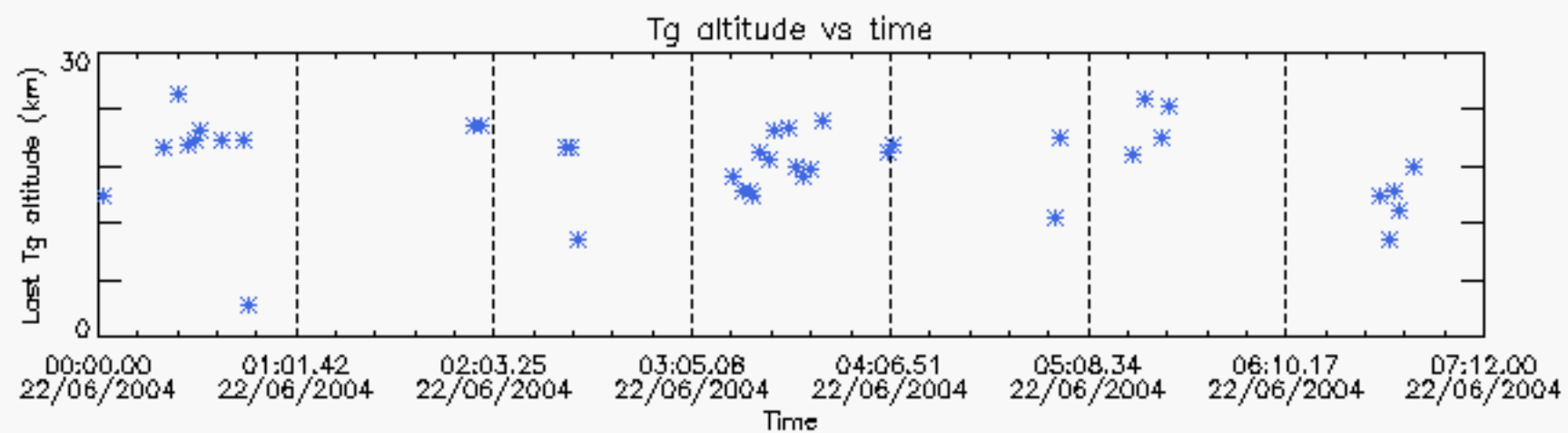
Percentage of saturation errors per profile



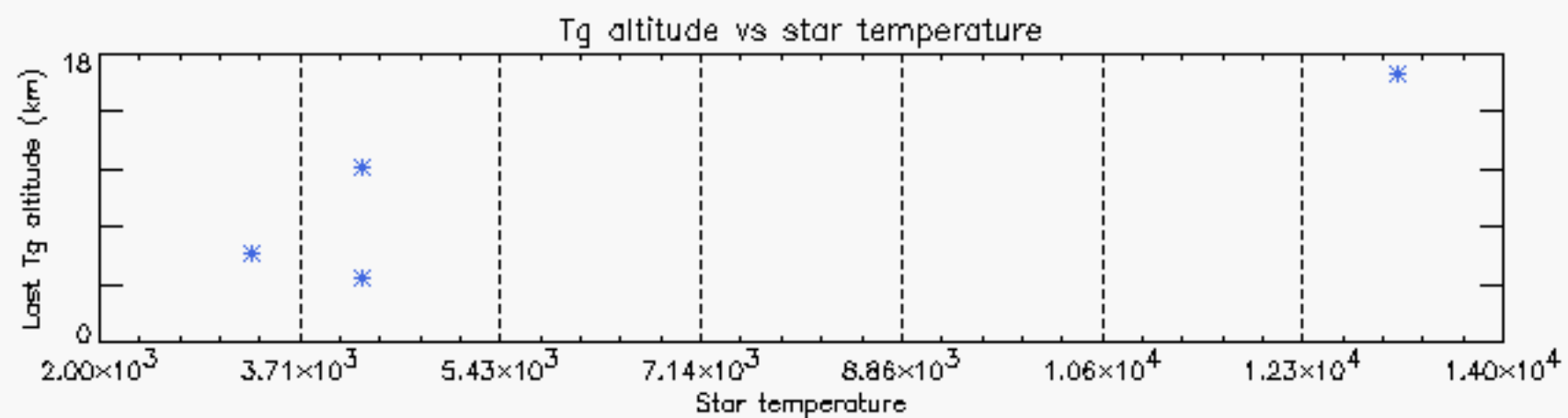
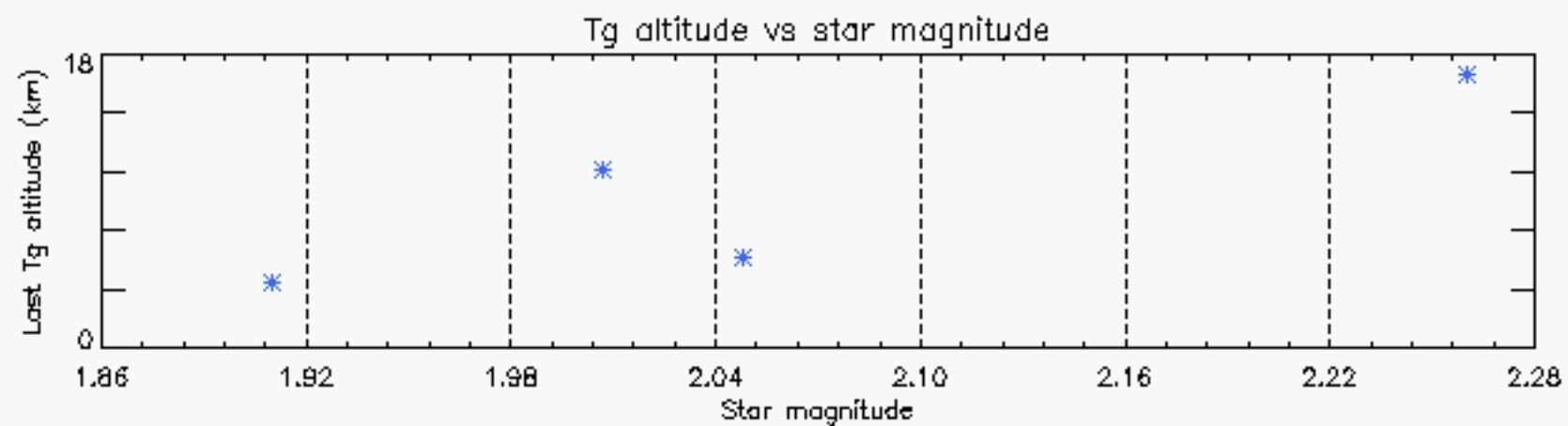
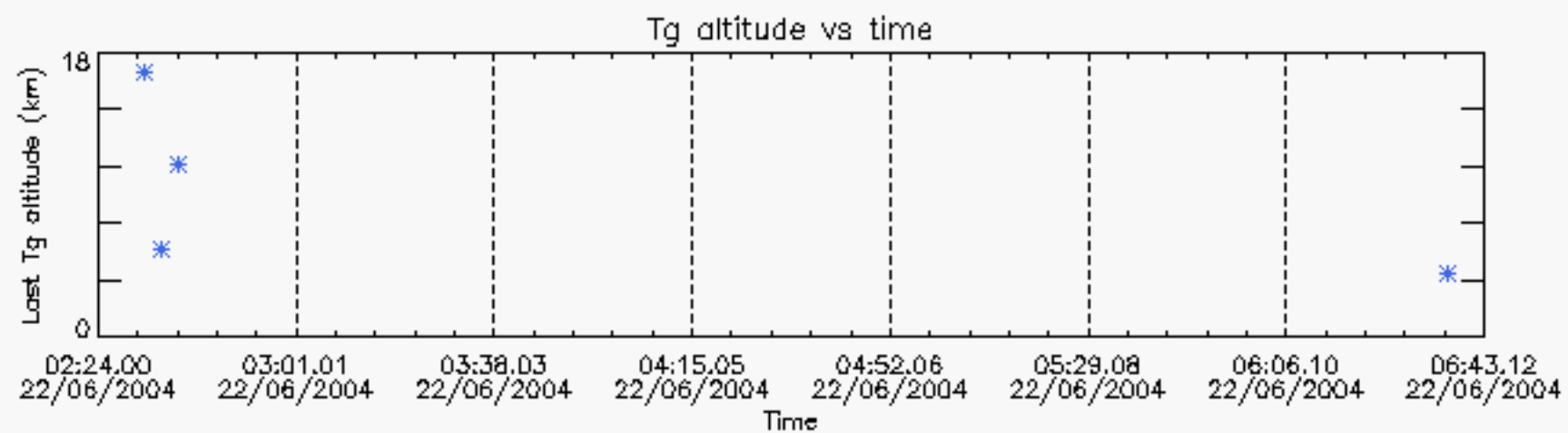
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11784
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 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
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23;	76.4;	10-JUN-2004	16:04:35;	Dark	;	69.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	138;	0;	11918
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25;	581.1;	10-JUN-2004	16:12:59;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	11918
26;	733.7;	10-JUN-2004	16:15:32;	Dark	;	39.5;	43;	Alp	TrA	;	1.91;	4250;	occ;	79;	0;	11918
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8;	-3196.0;	21-JUN-2004	09:22:14;	Bright;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;	12071
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19;	-862.4;	21-JUN-2004	10:01:08;	Dark	;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	12071
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23;	339.7;	21-JUN-2004	10:21:10;	Dark	;	18;	24Alp PsA	;	1.17;	9700;occ;	144;	0;	12072
24;	479.4;	21-JUN-2004	10:23:30;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	96;	0;	12072
25;	676.5;	21-JUN-2004	10:26:47;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;	12072
26;	949.9;	21-JUN-2004	10:31:20;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	12072
27;	1034.4;	21-JUN-2004	10:32:45;	Dark	;	147;	Alp Ara	;	2.88;	26000;occ;	76;	0;	12072
28;	1140.6;	21-JUN-2004	10:34:31;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	79;	0;	12072
29;	1241.9;	21-JUN-2004	10:36:12;	Dark	;	25;	35Lam Sco	;	1.62;	28000;occ;	83;	0;	12072
30;	1322.3;	21-JUN-2004	10:37:33;	Dark	;	116;	19Del Sgr	;	2.70;	4100;occ;	118;	0;	12072
31;	1453.7;	21-JUN-2004	10:39:44;	Bright;	49.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	98;	0;	12072
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