

GOMOS Daily Report 05-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	06JUN2004 03:42:52
Data source version	GOMOS/4.02
Start time of products	05-JUN-2004 (05JUN2004 00:00:00)
Stop time of products	06-JUN-2004 (06JUN2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	0

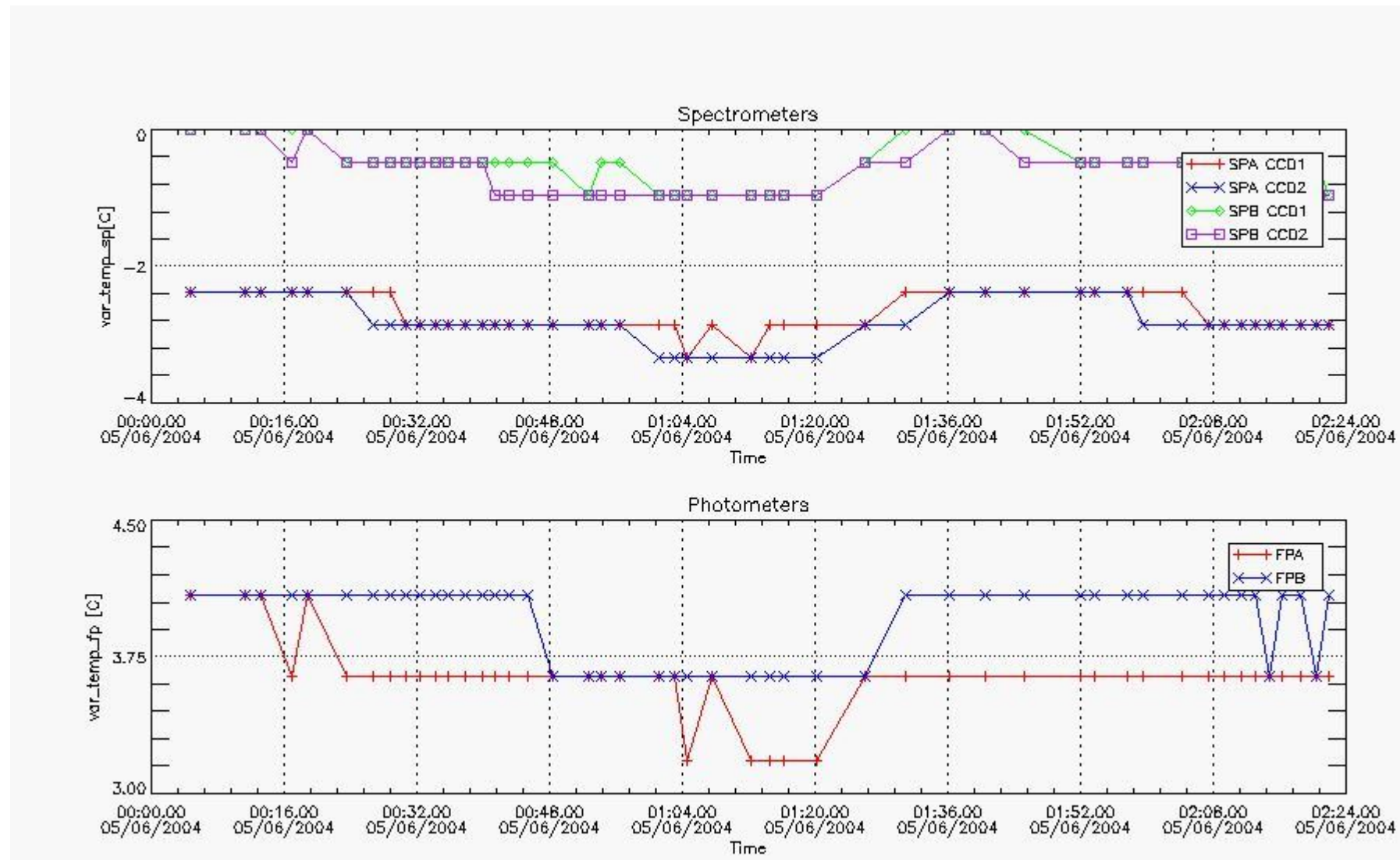
2. Summary of products arrived in PCF

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_1PNPDE20040605_000442_000000532027_00259_11836_0022.N1	05-JUN-2004 00:04:42	Dark	52.500	52	16Bet Cet	2.0370	4500.0	105	11836	No
GOM_TRA_1PNPDE20040605_001119_000000472027_00259_11836_0023.N1	05-JUN-2004 00:11:19	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	11836	No
GOM_TRA_1PNPDE20040605_001306_000000442027_00259_11836_0024.N1	05-JUN-2004 00:13:06	Dark	44.000	9	Alp Eri	0.45300	24000.	88	11836	No
GOM_TRA_1PNPDE20040605_001655_000000642027_00260_11837_0025.N1	05-JUN-2004 00:16:55	Dark	64.000	63	Bet Gru	2.1500	2800.0	128	11837	No
GOM_TRA_1PNPDE20040605_001852_000000532027_00260_11837_0026.N1	05-JUN-2004 00:18:52	Dark	53.000	31	Alp Gru	1.7340	15200.	106	11837	No
GOM_TRA_1PNPDE20040605_002333_000000472027_00260_11837_0027.N1	05-JUN-2004 00:23:33	Dark	46.500	45	Alp Pav	1.9400	26000.	93	11837	No
GOM_TRA_1PNPDE20040605_002646_000000512027_00260_11837_0028.N1	05-JUN-2004 00:26:46	Twilight	51.000	43	Alp TrA	1.9100	4250.0	102	11837	No
GOM_TRA_1PNPDE20040605_002848_000000402027_00260_11837_0029.N1	05-JUN-2004 00:28:48	Twilight	40.000	134	Bet TrA	2.8100	6600.0	80	11837	No
GOM_TRA_1PNPDE20040605_003046_000000432027_00260_11837_0030.N1	05-JUN-2004 00:30:46	Bright	43.000	147	Alp Ara	2.8770	26000.	86	11837	No
GOM_TRA_1PNPDE20040605_003227_000000502027_00260_11837_0031.N1	05-JUN-2004 00:32:27	Bright	50.000	40	The Sco	1.8590	7100.0	100	11837	No
GOM_TRA_1PNPDE20040605_003414_000000482027_00260_11837_0032.N1	05-JUN-2004 00:34:14	Bright	47.500	25	35Lam Sco	1.6200	28000.	95	11837	No
GOM_TRA_1PNPDE20040605_003543_000000662027_00260_11837_0033.N1	05-JUN-2004 00:35:43	Bright	65.500	57	34Sig Sgr	2.0660	26000.	131	11837	No
GOM_TRA_1PNPDE20040605_003752_000000482027_00260_11837_0000.N1	05-JUN-2004 00:37:52	Bright	48.000	136	23Tau Sco	2.8220	30000.	96	11837	No
GOM_TRA_1PNPDE20040605_003952_000000442027_00260_11837_0001.N1	05-JUN-2004 00:39:52	Bright	44.000	80	7Del Sco	2.3160	30000.	88	11837	No
GOM_TRA_1PNPDE20040605_004122_000000462027_00260_11837_0002.N1	05-JUN-2004 00:41:22	Bright	45.500	86	35Eta Oph	2.4300	10200.	91	11837	No
GOM_TRA_1PNPDE20040605_004310_000000432027_00260_11837_0003.N1	05-JUN-2004 00:43:10	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	11837	No
GOM_TRA_1PNPDE20040605_004518_000000422027_00260_11837_0004.N1	05-JUN-2004 00:45:18	Bright	42.000	120	1Del Oph	2.7340	3200.0	84	11837	No
GOM_TRA_1PNPDE20040605_004821_000000372027_00260_11837_0005.N1	05-JUN-2004 00:48:21	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	11837	No
GOM_TRA_1PNPDE20040605_005237_000000402027_00260_11837_0006.N1	05-JUN-2004 00:52:37	Bright	39.500	3	16Alp Boo	-0.050000	4250.0	79	11837	No
GOM_TRA_1PNPDE20040605_005410_000000382027_00260_11837_0007.N1	05-JUN-2004 00:54:10	Bright	37.500	67	5Alp CrB	2.2210	11000.	75	11837	No
GOM_TRA_1PNPDE20040605_005627_000000452027_00260_11837_0008.N1	05-JUN-2004 00:56:27	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	11837	No
GOM_TRA_1PNPDE20040605_010108_000000392027_00260_11837_0009.N1	05-JUN-2004 01:01:08	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11837	No
GOM_TRA_1PNPDE20040605_010258_000000432027_00260_11837_0010.N1	05-JUN-2004 01:02:58	Bright	43.000	55	79Zet UMa	2.0600	10200.	86	11837	No
GOM_TRA_1PNPDE20040605_010434_000000392027_00260_11837_0011.N1	05-JUN-2004 01:04:34	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	11837	No
GOM_TRA_1PNPDE20040605_010729_000000412027_00260_11837_0012.N1	05-JUN-2004 01:07:29	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	11837	No
GOM_TRA_1PNPDE20040605_011212_000000382027_00260_11837_0013.N1	05-JUN-2004 01:12:12	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	11837	No
GOM_TRA_1PNPDE20040605_011437_000000472027_00260_11837_0014.N1	05-JUN-2004 01:14:37	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	11837	No
GOM_TRA_1PNPDE20040605_011618_000000812027_00260_11837_0015.N1	05-JUN-2004 01:16:18	Bright	80.500	19	50Alp Cyg	1.2460	10500.	161	11837	No
GOM_TRA_1PNPDE20040605_012008_000000482027_00260_11837_0016.N1	05-JUN-2004 01:20:08	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	11837	No
GOM_TRA_1PNPDE20040605_012605_000001732027_00260_11837_0017.N1	05-JUN-2004 01:26:05	Twilight	173.00	92	53Eps Cyg	2.5000	4500.0	346	11837	No
GOM_TRA_1PNPDE20040605_013056_000000582027_00260_11837_0018.N1	05-JUN-2004 01:30:56	Twilight	58.000	58	21Alp And	2.0730	11000.	116	11837	No
GOM_TRA_1PNPDE20040605_013614_000000582027_00260_11837_0019.N1	05-JUN-2004 01:36:14	Dark	58.000	140	88Gam Peg	2.8340	26000.	116	11837	No
GOM_TRA_1PNPDE20040605_014035_000001202027_00260_11837_0020.N1	05-JUN-2004 01:40:35	Dark	120.00	90	54Alp Peg	2.4870	11000.	240	11837	No
GOM_TRA_1PNPDE20040605_014517_000000502027_00260_11837_0021.N1	05-JUN-2004 01:45:17	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	11837	No
GOM_TRA_1PNPDE20040605_015156_000000492027_00260_11837_0022.N1	05-JUN-2004 01:51:56	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	11837	No
GOM_TRA_1PNPDE20040605_015343_000000452027_00260_11837_0023.N1	05-JUN-2004 01:53:43	Dark	44.500	9	Alp Eri	0.45300	24000.	89	11837	No
GOM_TRA_1PNPDE20040605_015733_000000542027_00261_11838_0024.N1	05-JUN-2004 01:57:33	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	11838	No
GOM_TRA_1PNPDE20040605_015928_000000532027_00261_11838_0025.N1	05-JUN-2004 01:59:28	Dark	52.500	31	Alp Gru	1.7340	15200.	105	11838	No
GOM_TRA_1PNPDE20040605_020412_000000442027_00261_11838_0026.N1	05-JUN-2004 02:04:12	Dark	44.000	45	Alp Pav	1.9400	26000.	88	11838	No
GOM_TRA_1PNPDE20040605_020722_000000422027_00261_11838_0027.N1	05-JUN-2004 02:07:22	Twilight	41.500	43	Alp TrA	1.9100	4250.0	83	11838	No
GOM_TRA_1PNPDE20040605_020924_000000392027_00261_11838_0028.N1	05-JUN-2004 02:09:24	Twilight	39.000	134	Bet TrA	2.8100	6600.0	78	11838	No
GOM_TRA_1PNPDE20040605_021122_000000422027_00261_11838_0029.N1	05-JUN-2004 02:11:22	Bright	42.000	147	Alp Ara	2.8770	26000.	84	11838	No
GOM_TRA_1PNPDE20040605_021304_000000482027_00261_11838_0030.N1	05-JUN-2004 02:13:04	Bright	48.000	40	The Sco	1.8590	7100.0	96	11838	No
GOM_TRA_1PNPDE20040605_021448_000000522027_00261_11838_0031.N1	05-JUN-2004 02:14:48	Bright	52.000	25	35Lam Sco	1.6200	28000.	104	11838	No
GOM_TRA_1PNPDE20040605_021620_000000632027_00261_11838_0032.N1	05-JUN-2004 02:16:20	Bright	62.500	57	34Sig Sgr	2.0660	26000.	125	11838	No
GOM_TRA_1PNPDE20040605_021829_000000412027_00261_11838_0033.N1	05-JUN-2004 02:18:29	Bright	41.000	136	23Tau Sco	2.8220	30000.	82	11838	No
GOM_TRA_1PNPDE20040605_022028_000000442027_00261_11838_0000.N1	05-JUN-2004 02:20:28	Bright	43.500	80	7Del Sco	2.3160	30000.	87	11838	No
GOM_TRA_1PNPDE20040605_022159_000000462027_00261_11838_0001.N1	05-JUN-2004 02:21:59	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	11838	No

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



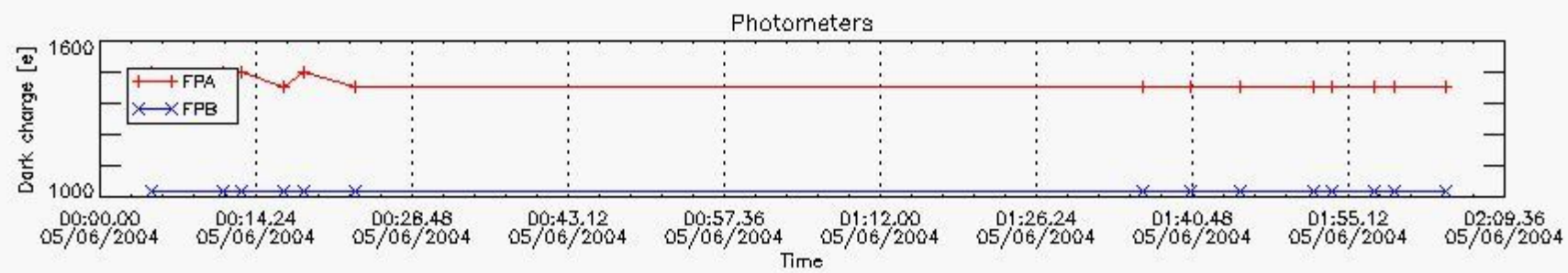
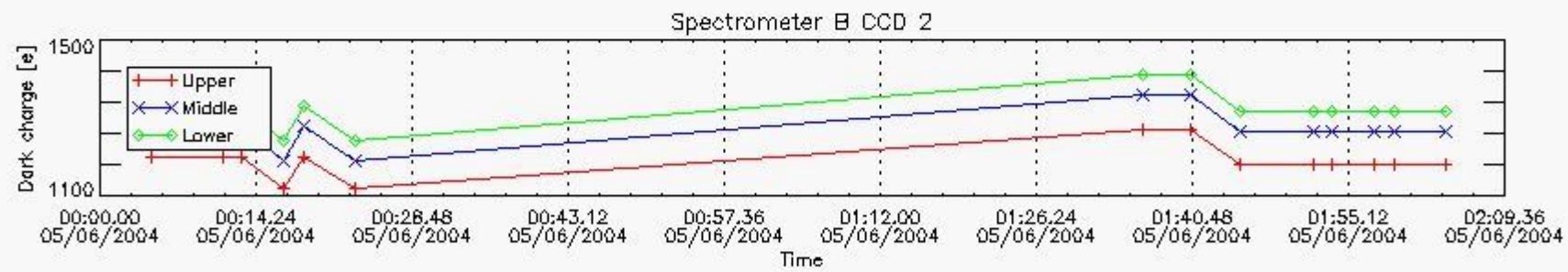
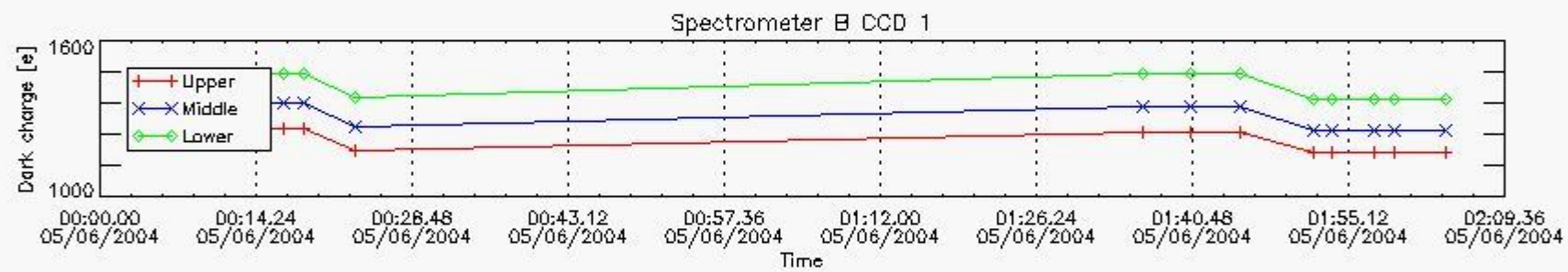
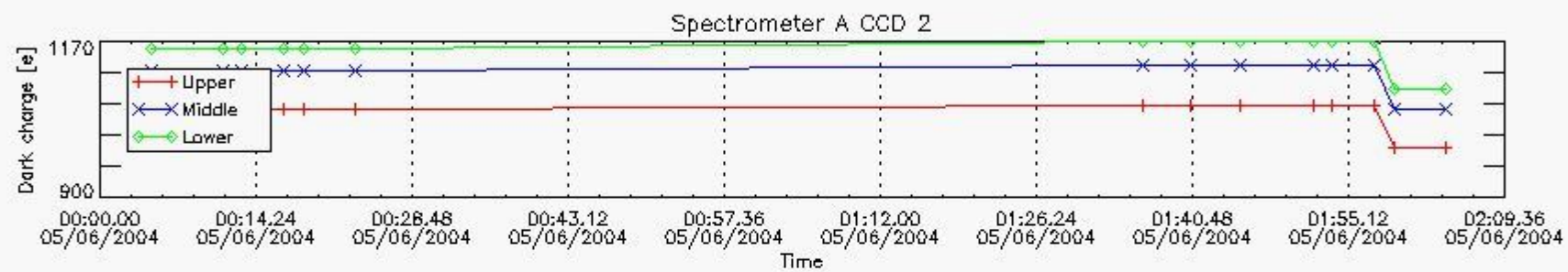
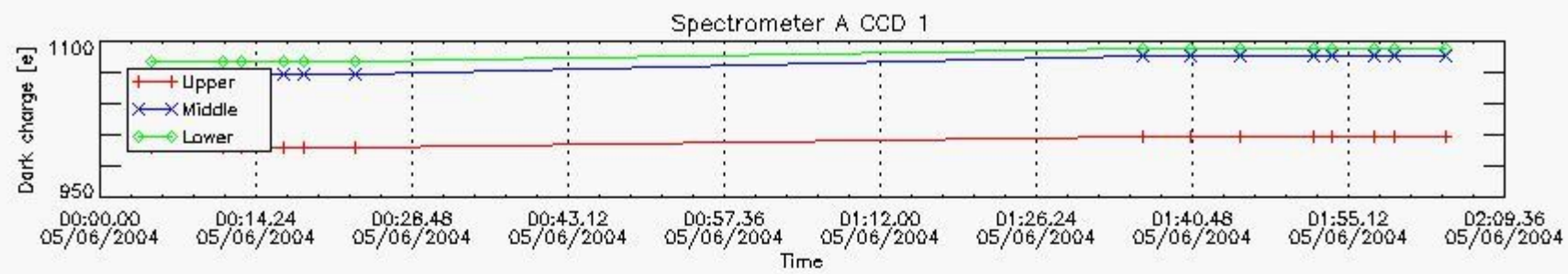
4. Overview of dark signal processing per product

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



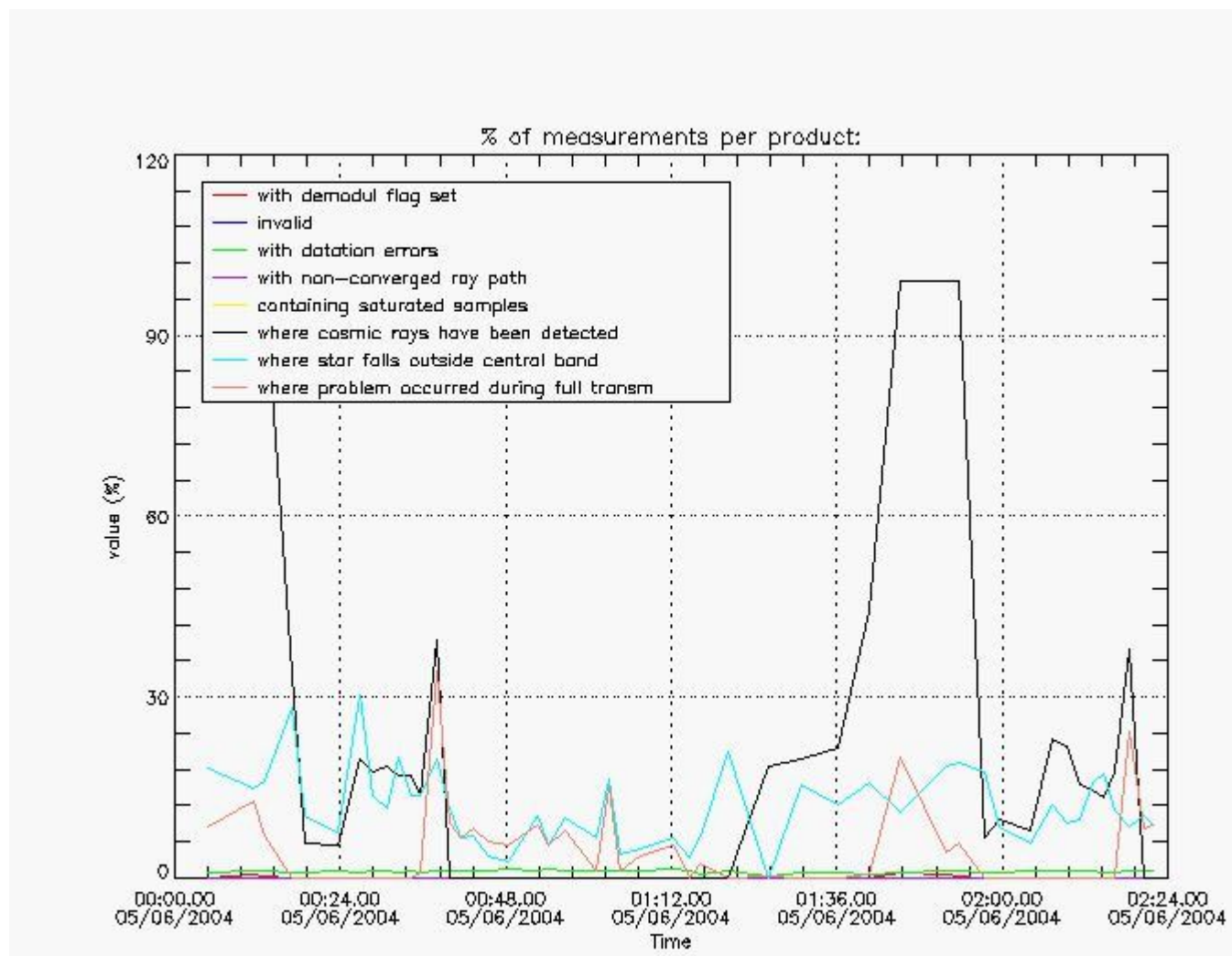
5. Demodulation flag and quality information monitoring

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:

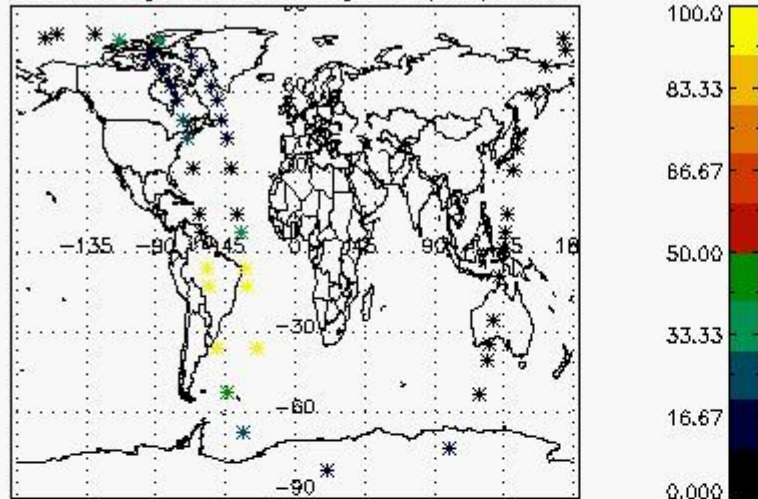
At least one measurement with demodulation flag set:	14.5833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

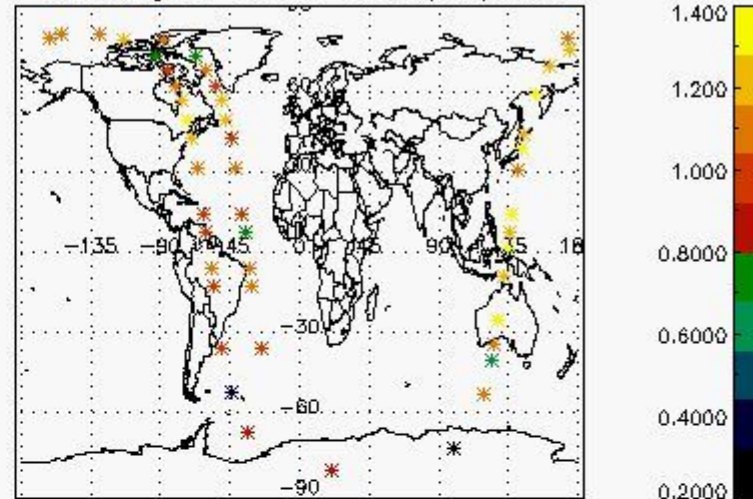


5.3 Plot quality information per product (world map)

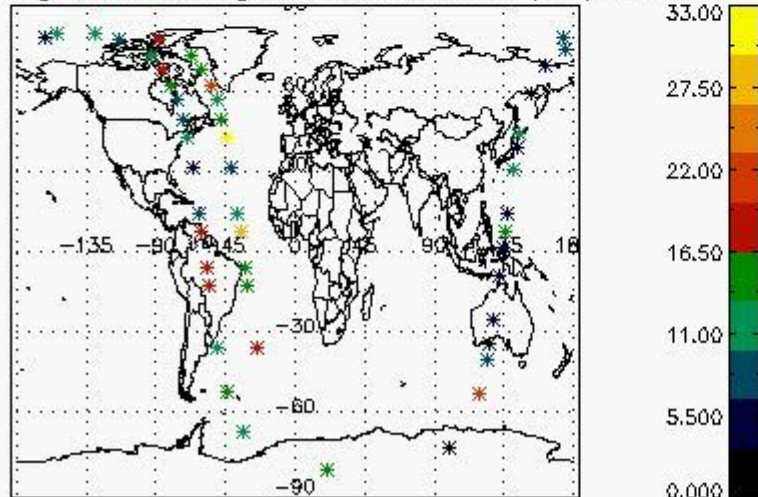
Percentage of cosmic ray hits per profile



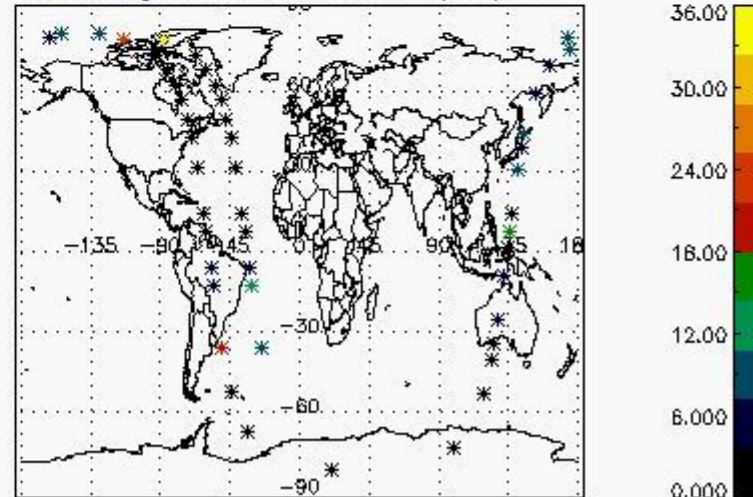
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



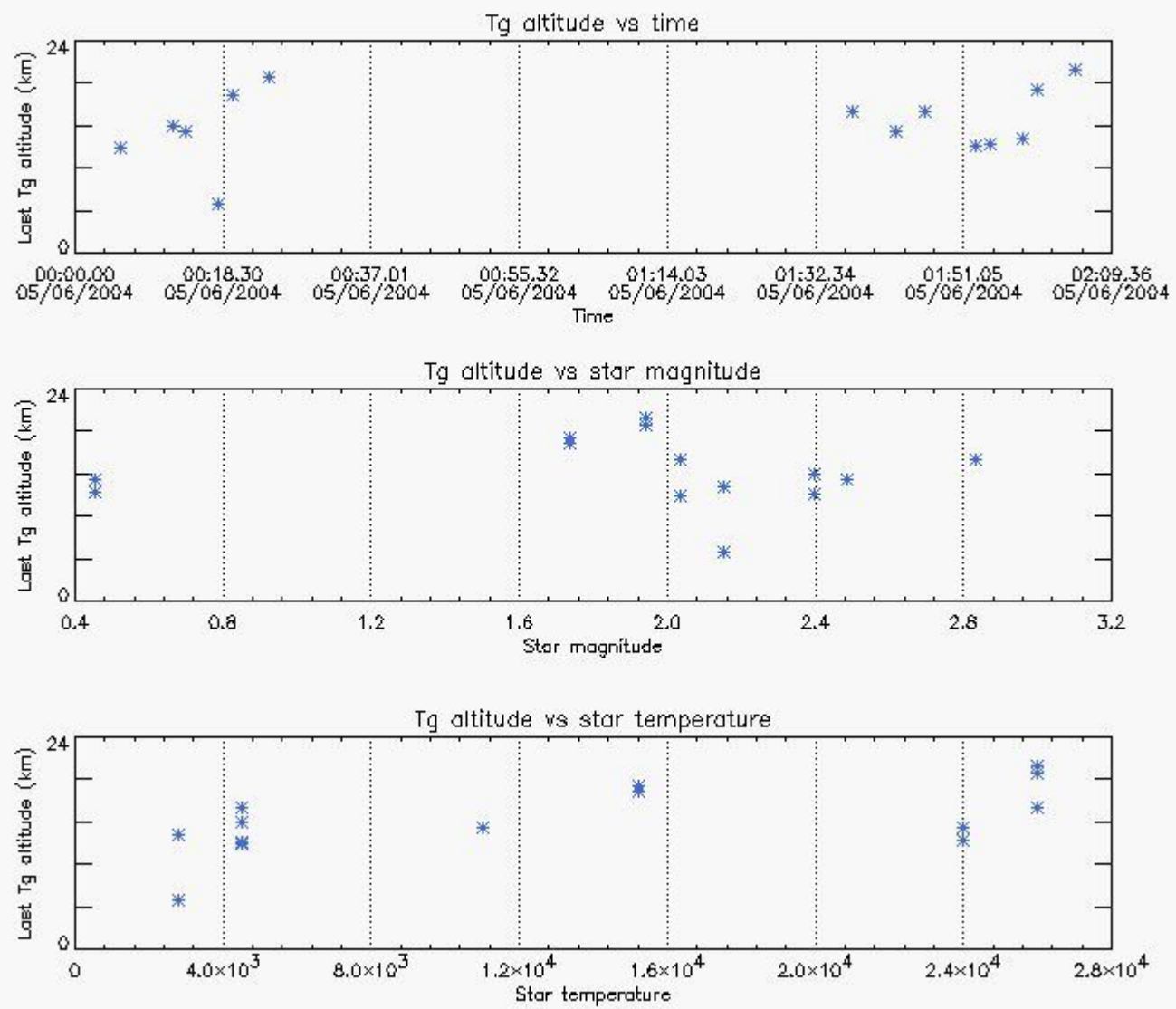
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.683	17.714	29.937
St. deviation:	3.9370	3.5206	38.437
Maximum:	20.799	24.116	107.85
Minimum:	5.5879	11.441	5.8305
Number of data:	14.000	28.000	6.0000

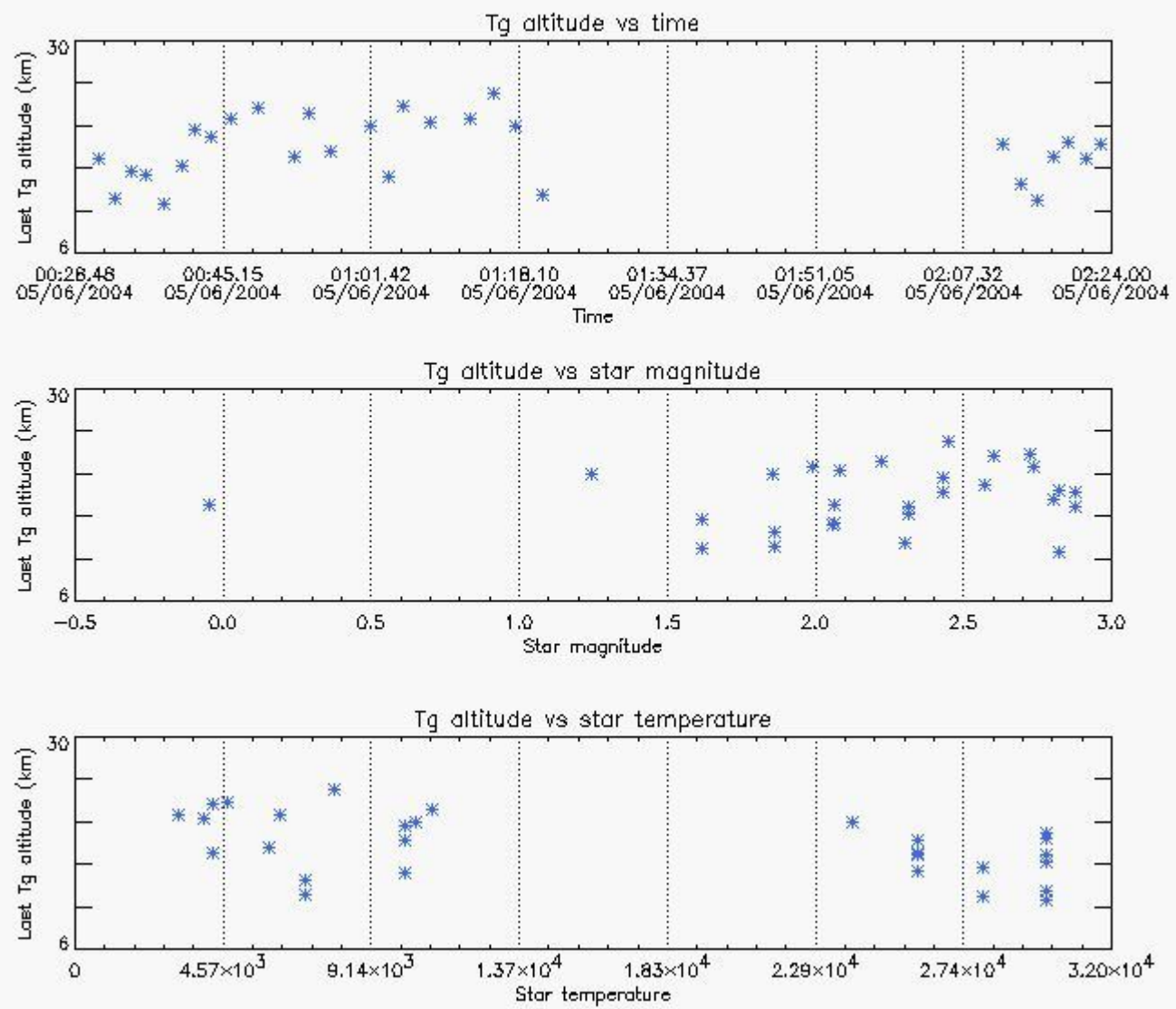
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



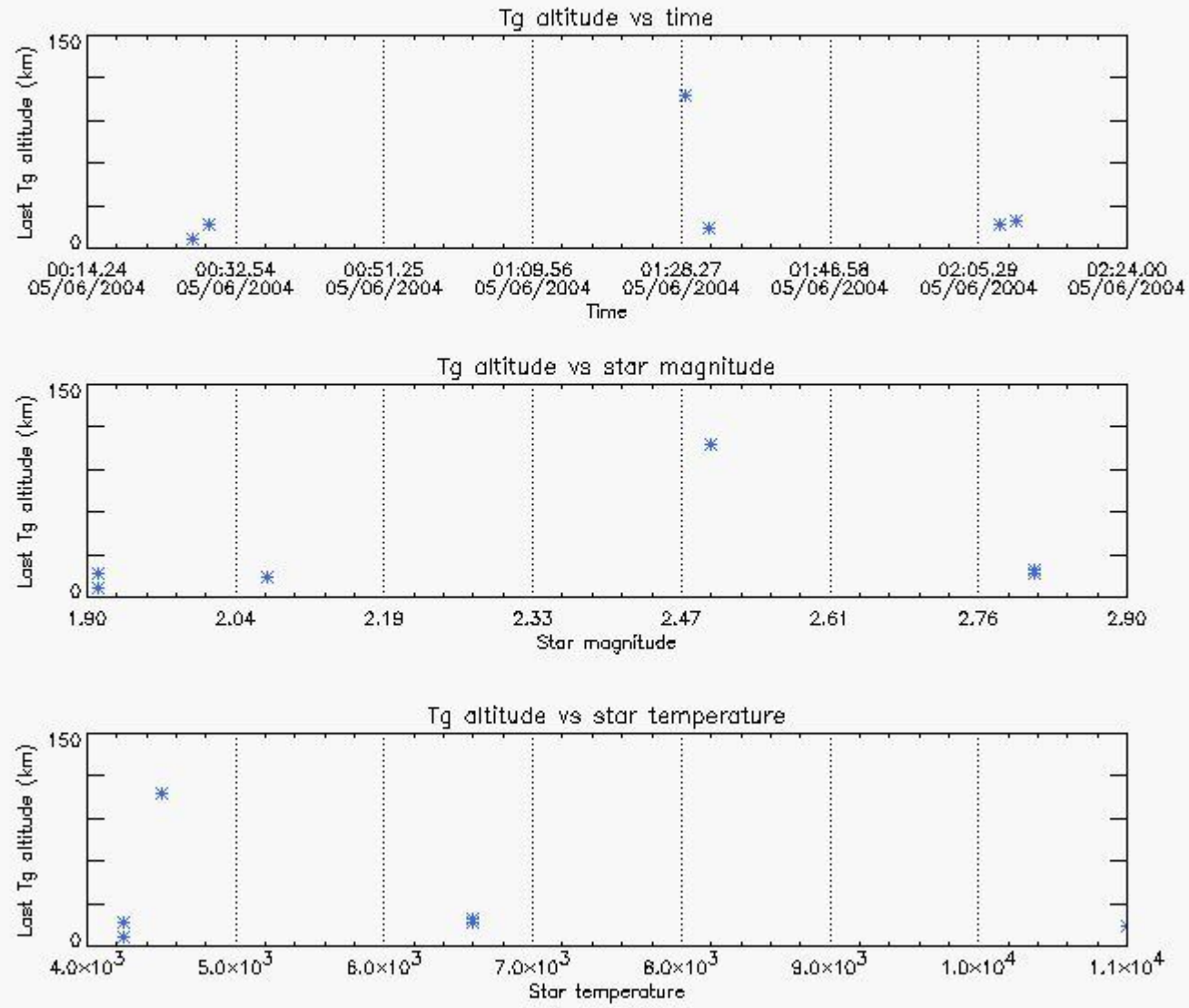
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

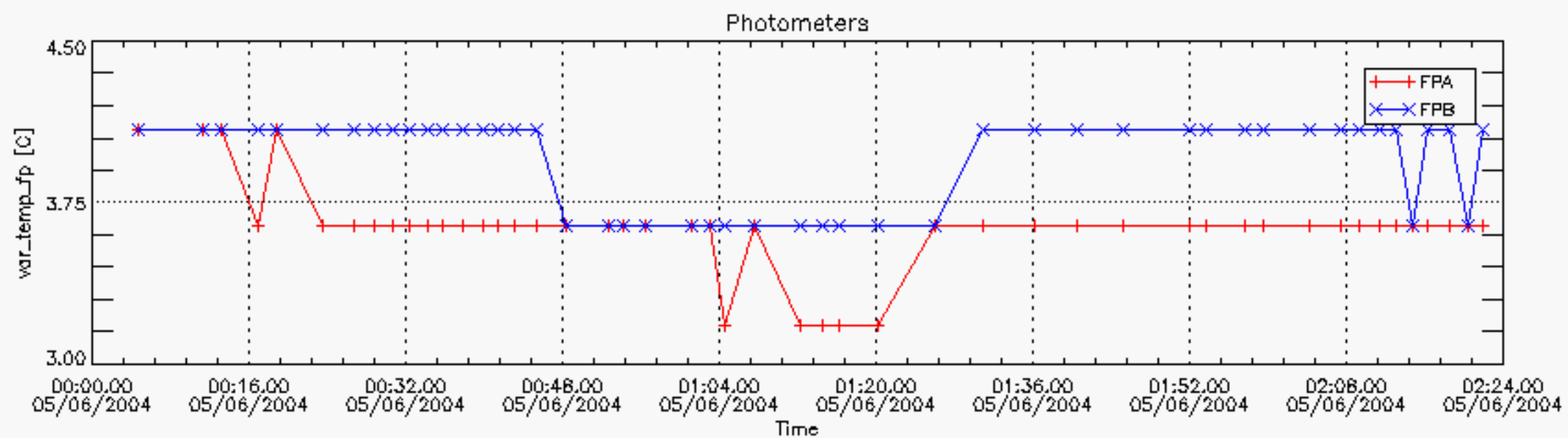
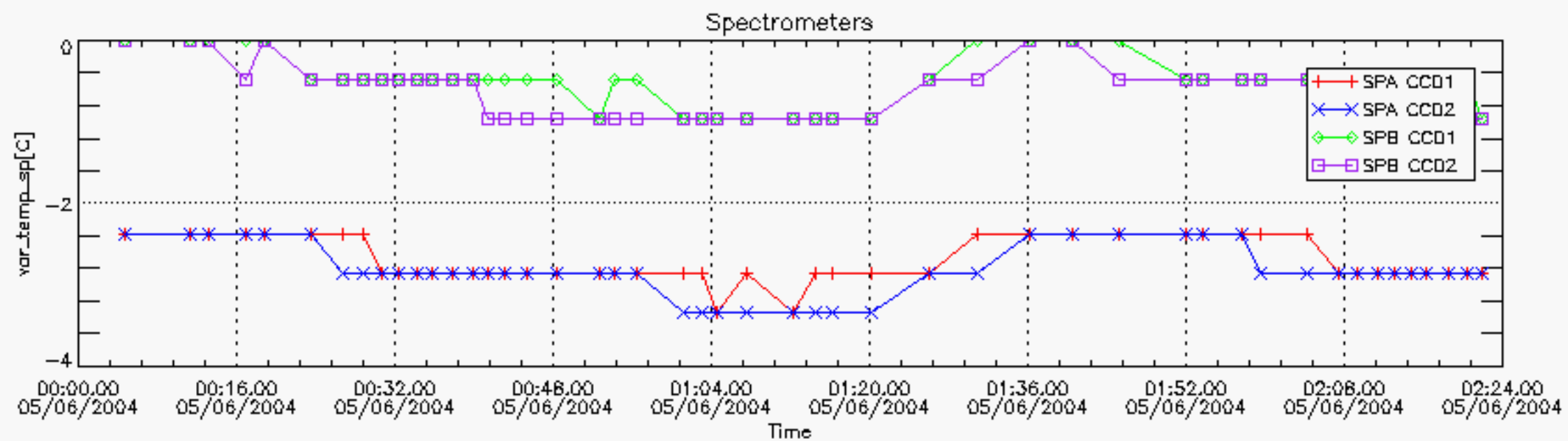
Tangent altitude at which the star is lost

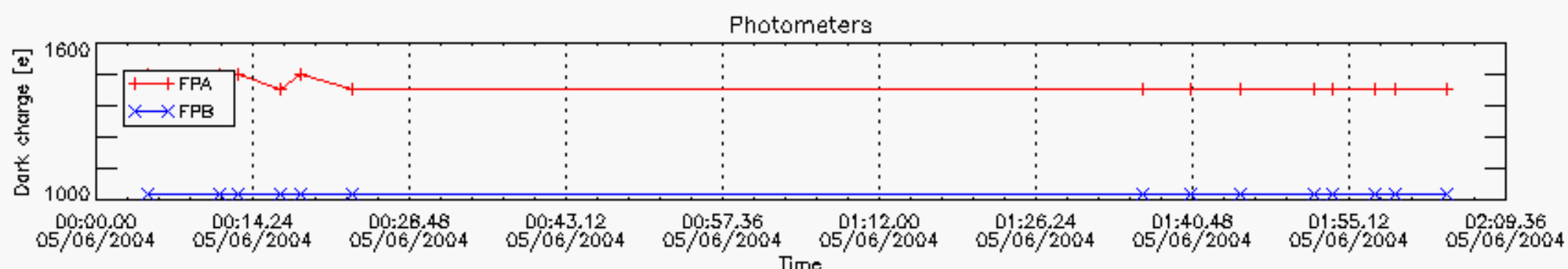
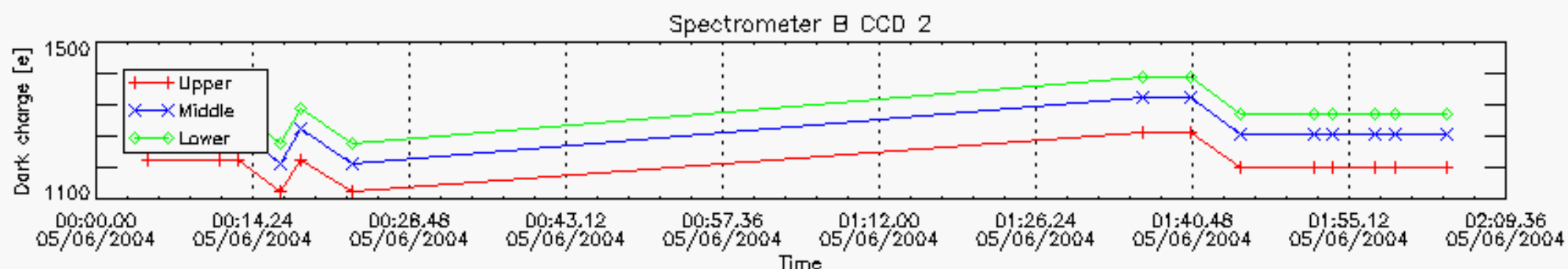
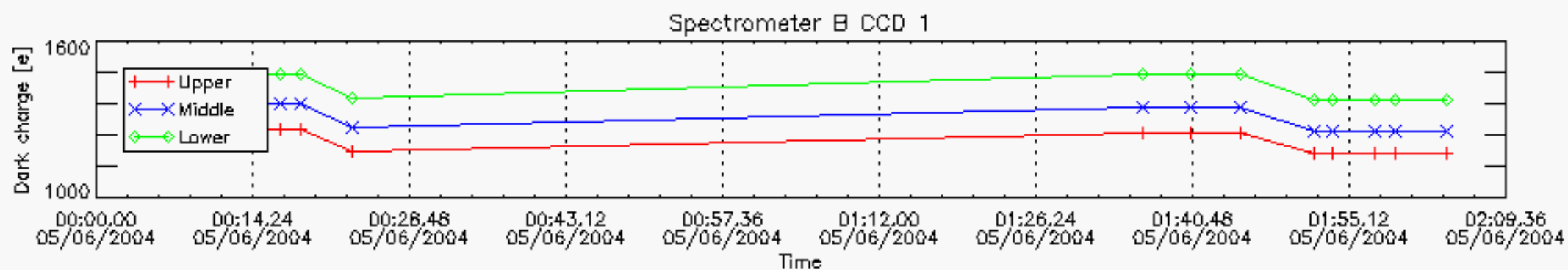
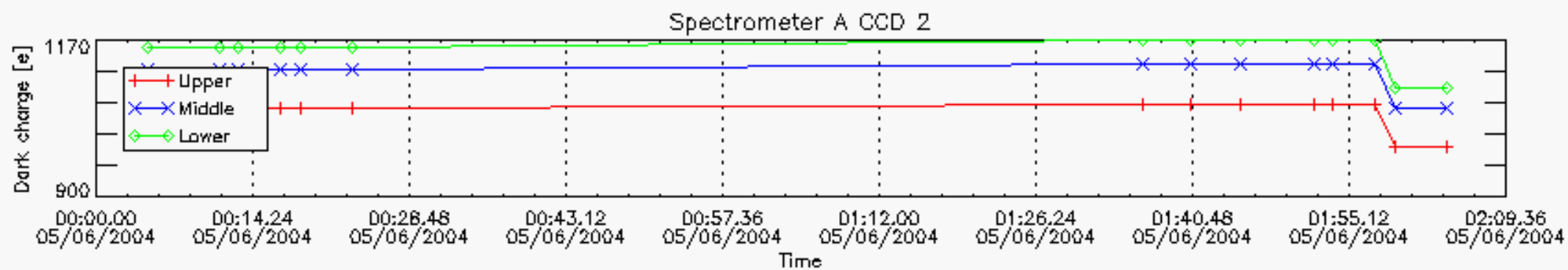
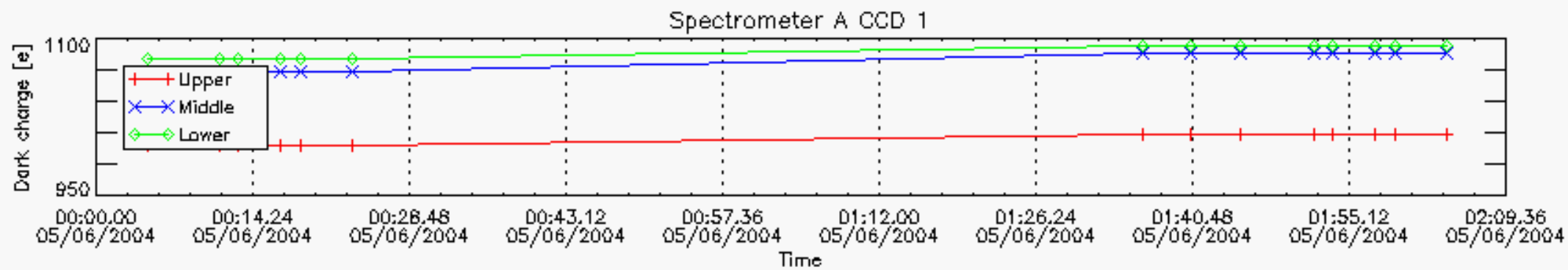


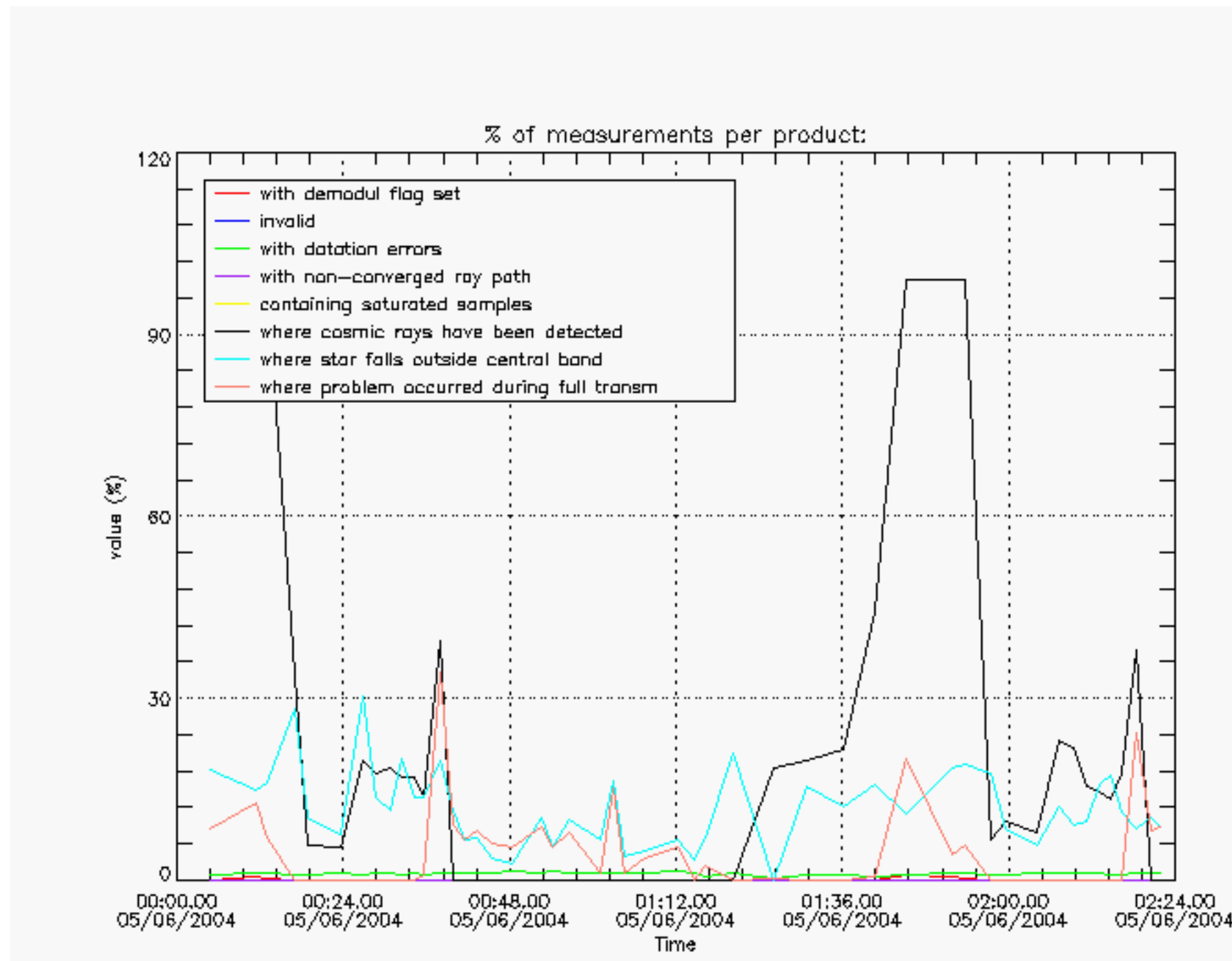
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

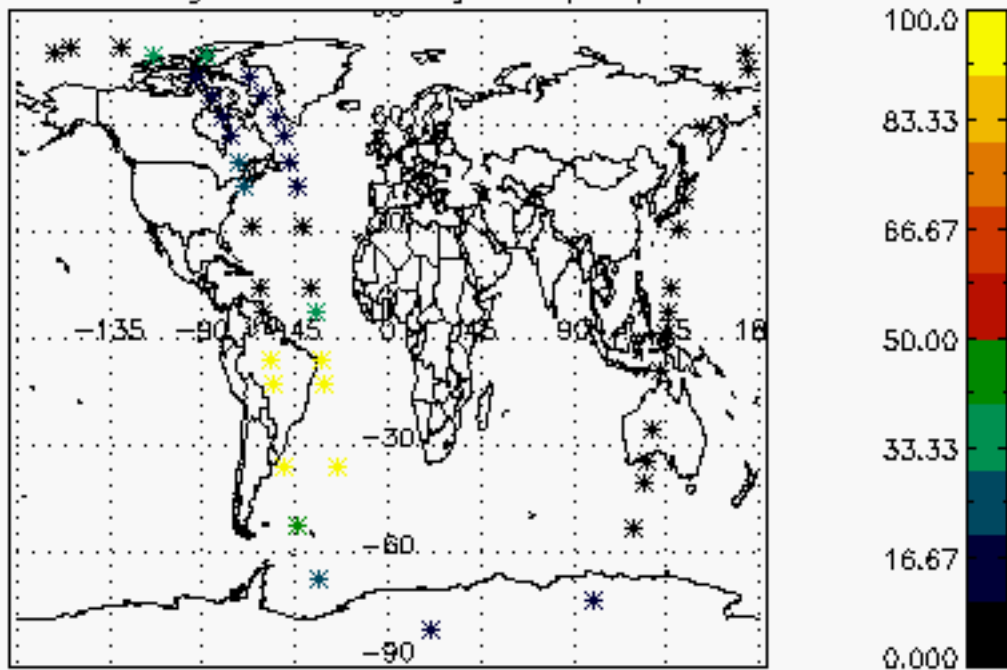
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1448.0	1462.2	1447.3
St. deviation:	4.3187	5.6804	6.9338	8.0416
Maximum:	1502.0	1499.0	1509.0	1490.0
Minimum:	1440.0	1426.0	1432.0	1415.0
Number of data:	20800.	20800.	34250.	34250.



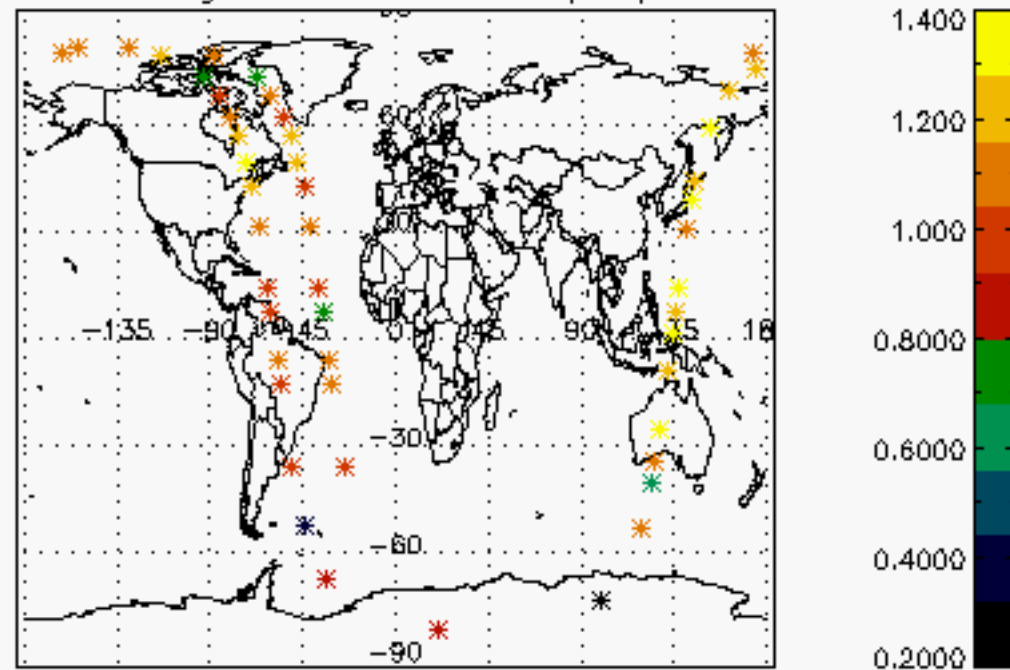




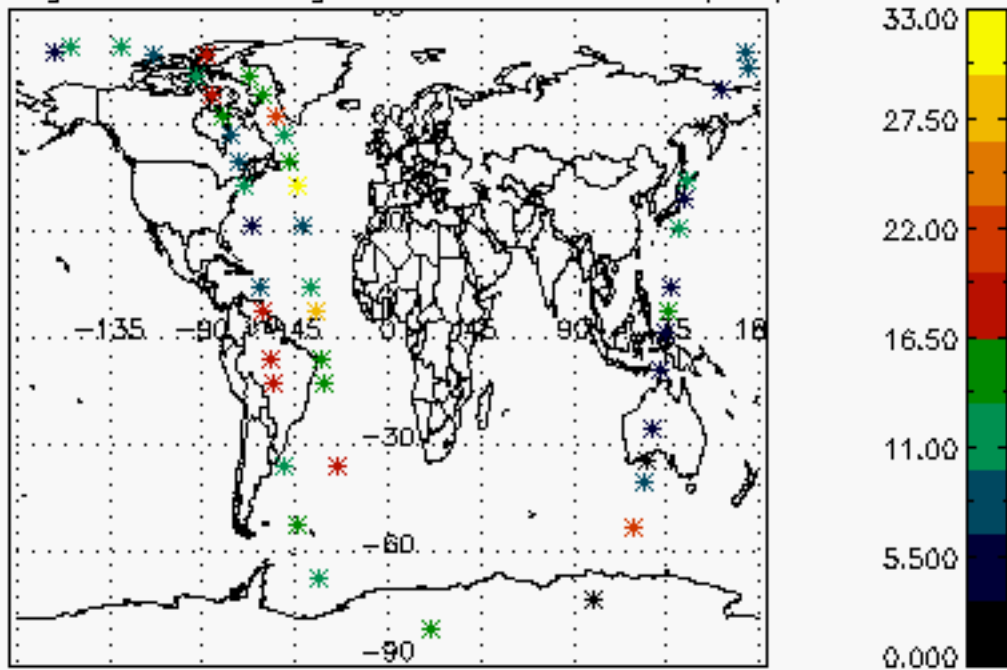
Percentage of cosmic ray hits per profile



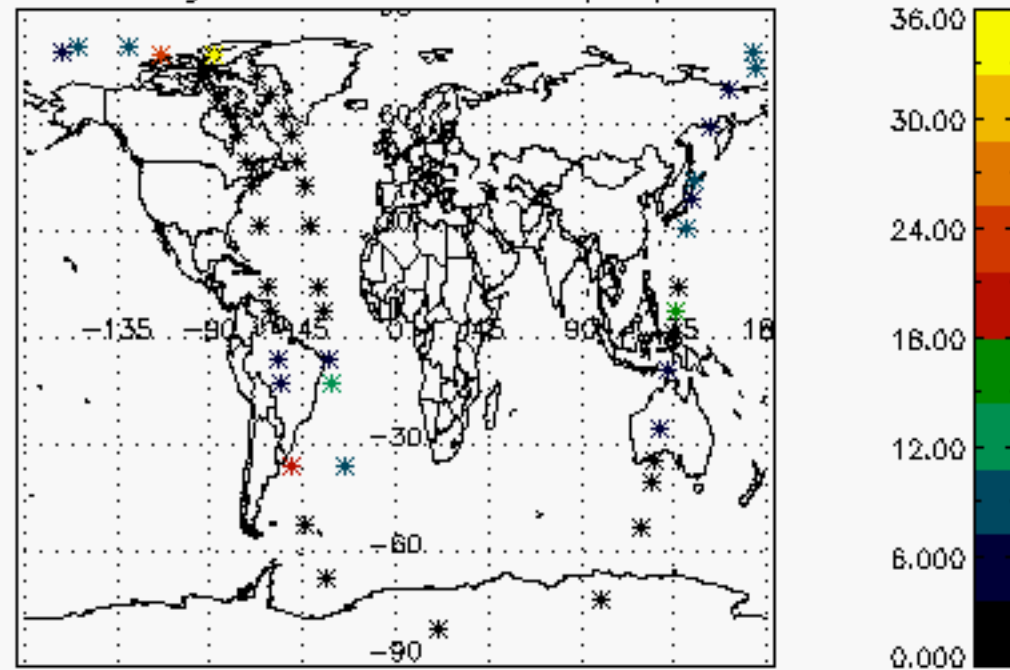
Percentage of datation errors per profile



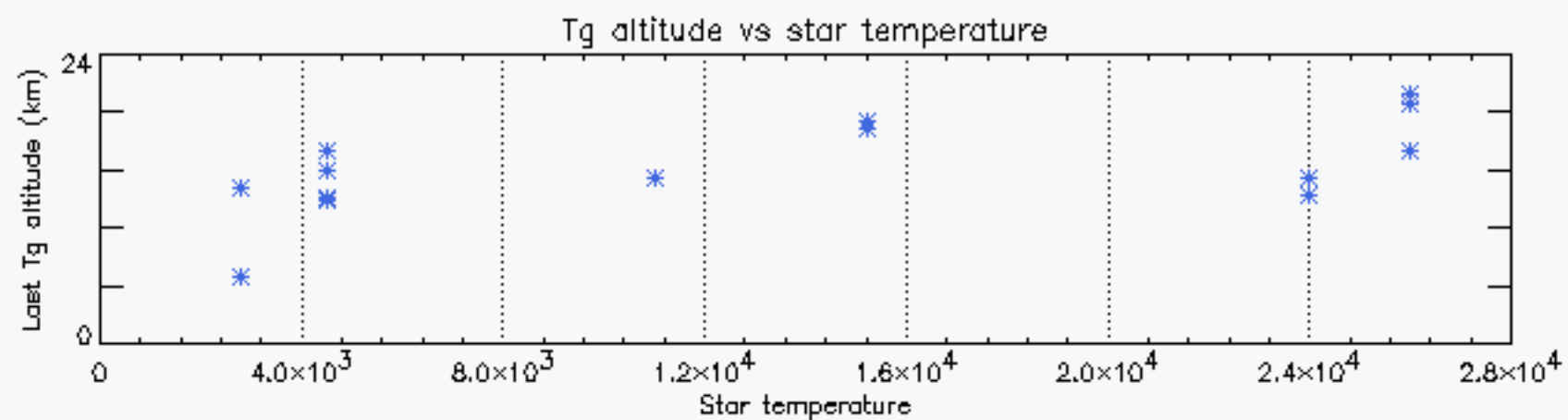
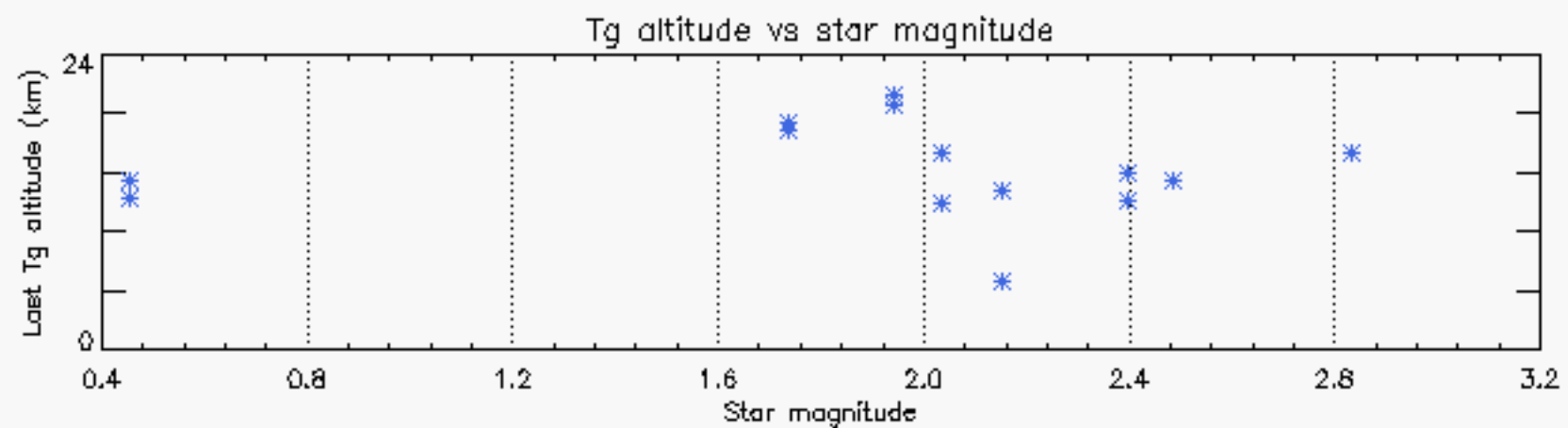
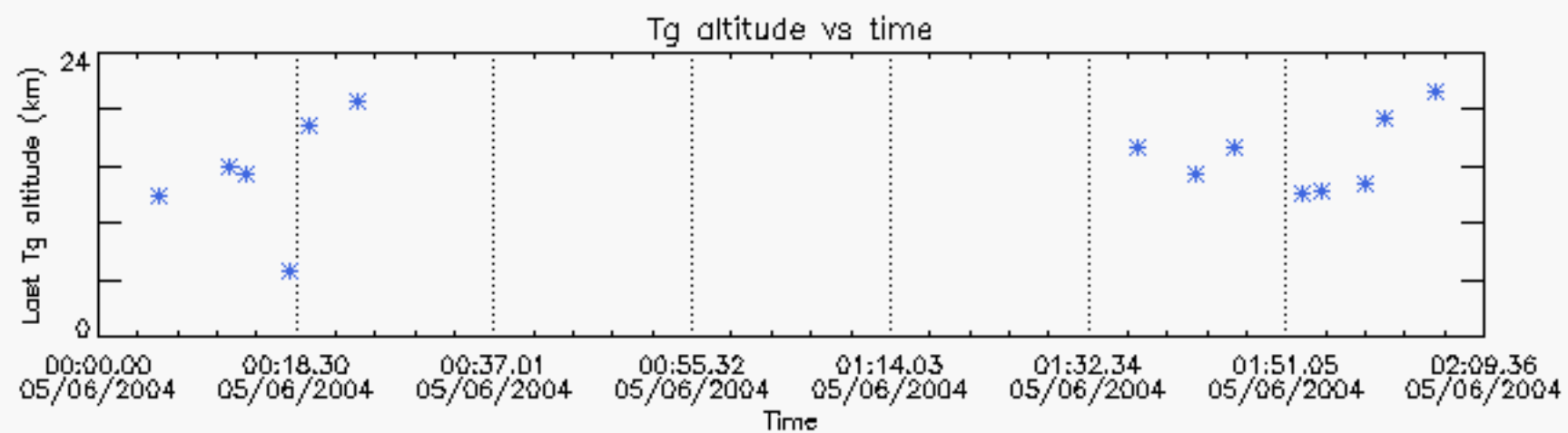
Percentage of star falling outside central band per profile



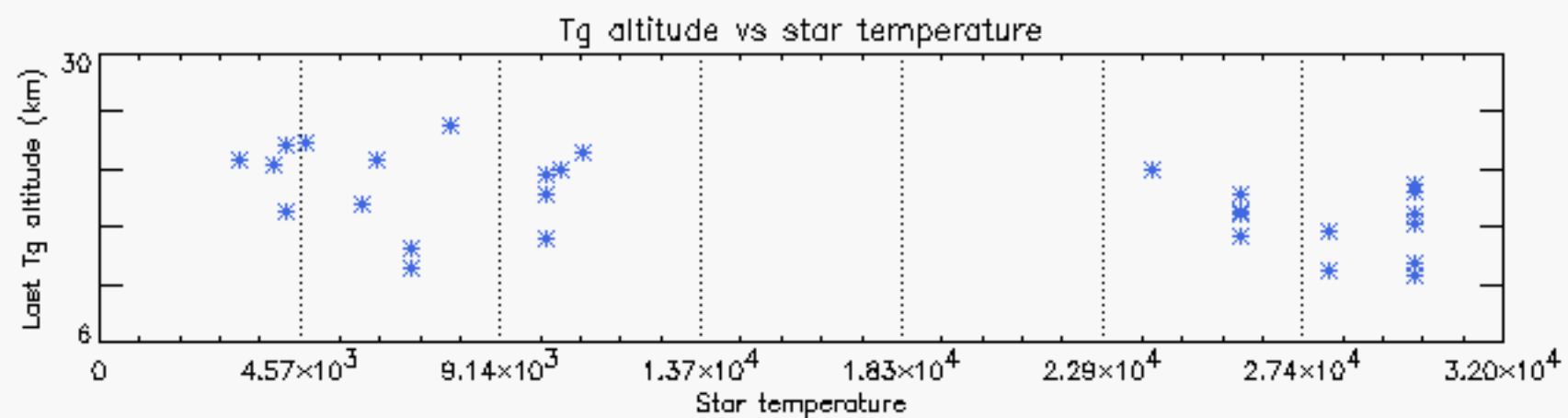
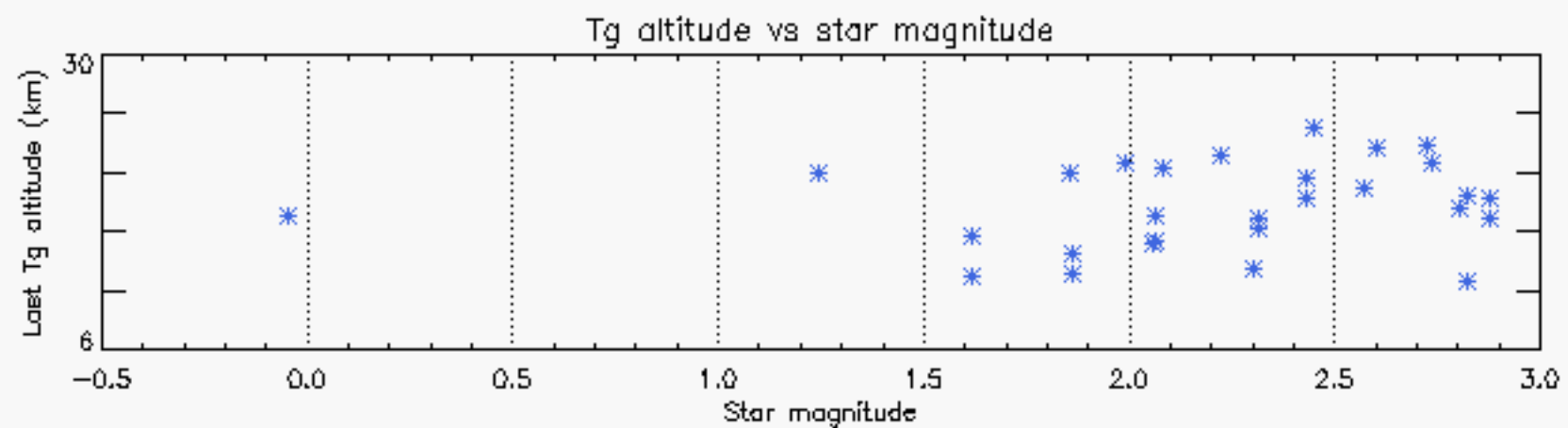
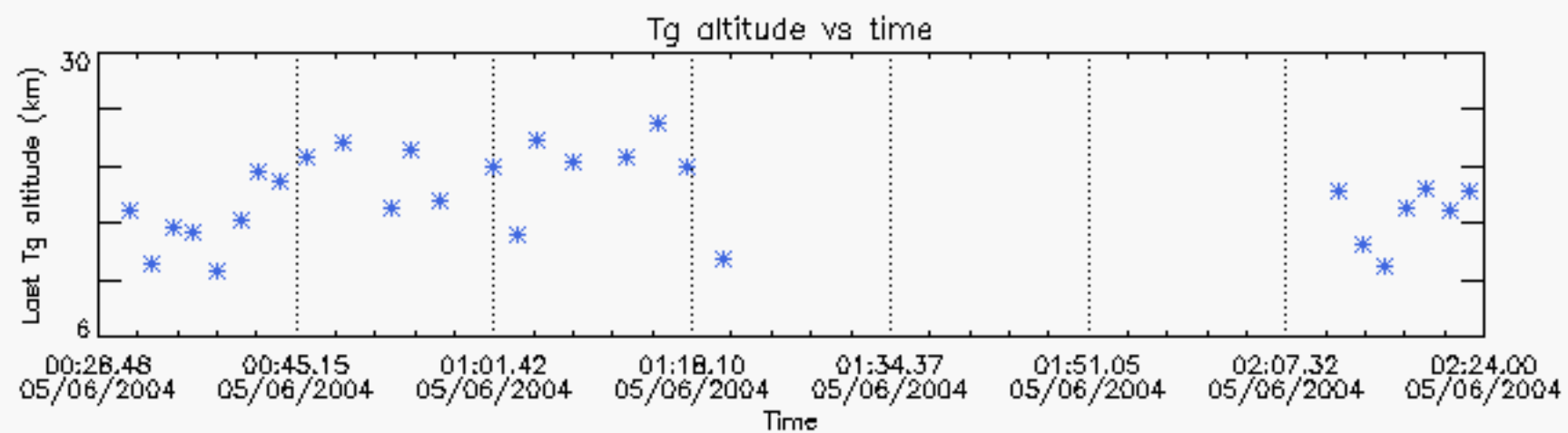
Percentage of saturation errors per profile



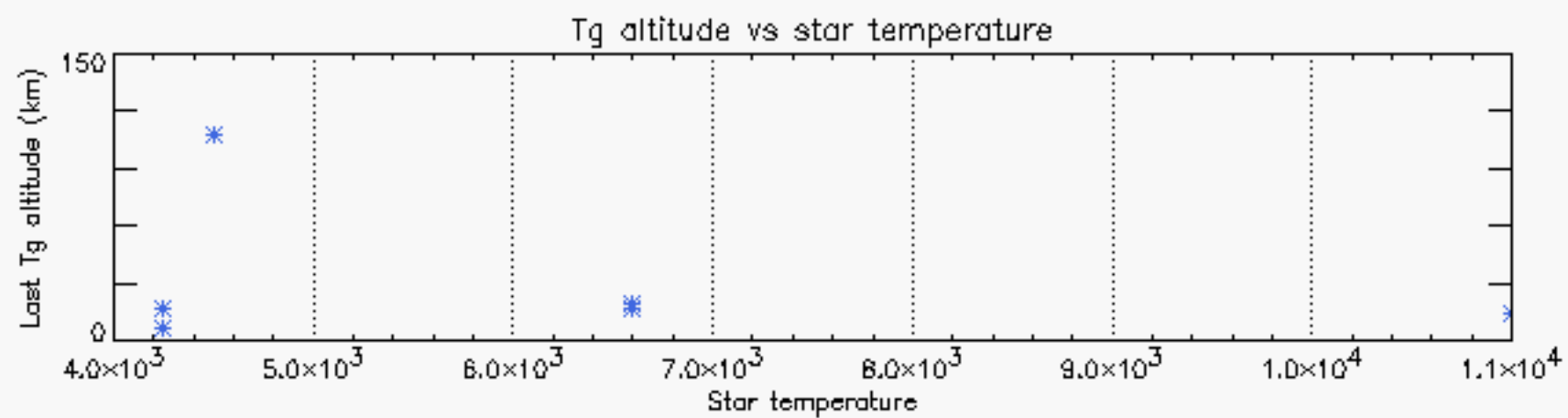
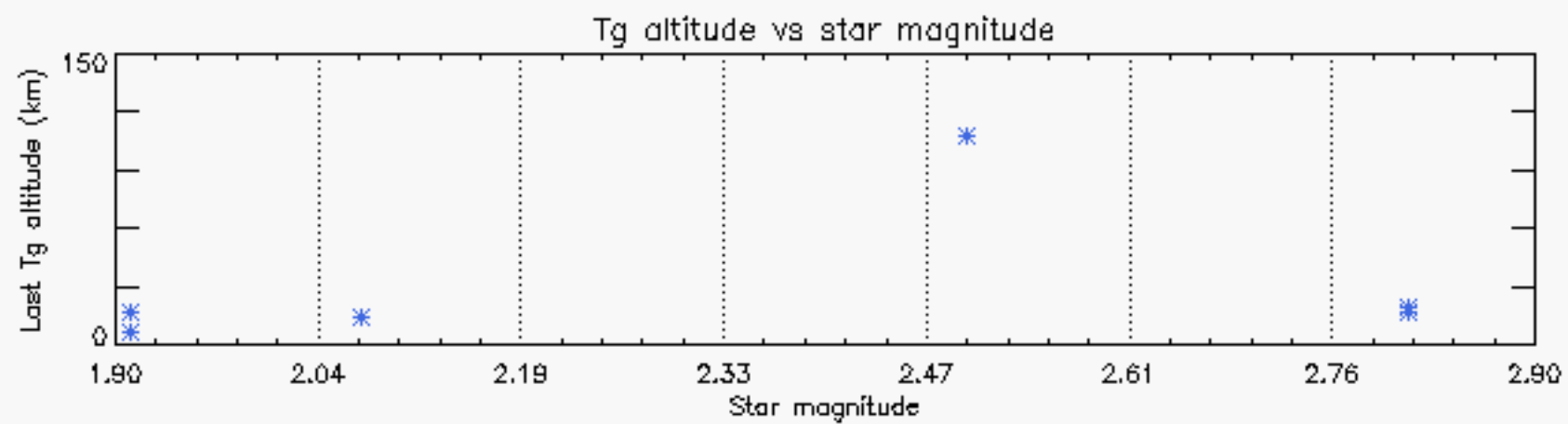
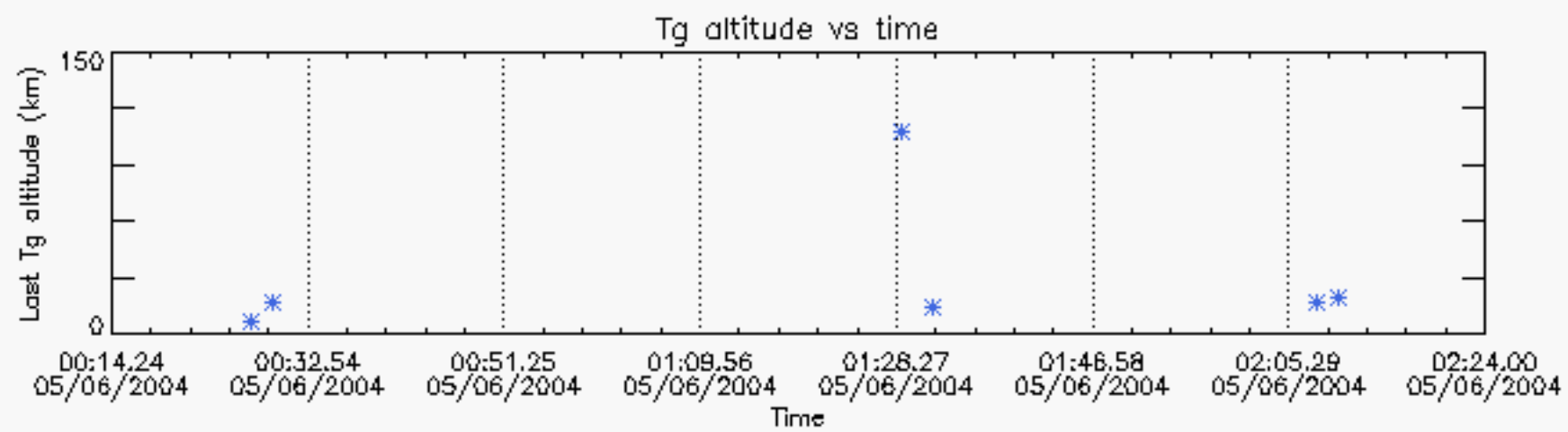
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 3;-4203.2; 01-JUN-2004 06:13:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;11783
 4;-4022.5; 01-JUN-2004 06:16:01; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;11783
 5;-3779.7; 01-JUN-2004 06:20:04; Bright; 38.0; 3; 16Alp Boo ;-0.05; 4250;occ; 76; 0;11783
 6;-3664.8; 01-JUN-2004 06:21:59; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;11783
 7;-3473.2; 01-JUN-2004 06:25:10; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;11783
 8;-3268.2; 01-JUN-2004 06:28:35; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;11783
 9;-3159.4; 01-JUN-2004 06:30:24; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;11783
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 11;-2871.4; 01-JUN-2004 06:35:12; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;11783
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 13;-2413.5; 01-JUN-2004 06:42:50; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;11783
 14;-1623.2; 01-JUN-2004 06:56:00; Dark ; 180.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 360; 0;11783
 15;-1385.8; 01-JUN-2004 06:59:58; Dark ; 91.0; 93; 53Bet Peg ; 2.52; 3100;occ; 182; 0;11783
 16;-1180.9; 01-JUN-2004 07:03:23; Dark ; 56.5; 140; 88Gam Peg ; 2.83; 26000;occ; 113; 0;11783
 17;-975.5; 01-JUN-2004 07:06:48; Dark ; 89.0; 90; 54Alp Peg ; 2.49; 11000;occ; 178; 0;11783
 18;-639.9; 01-JUN-2004 07:12:24; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;11783
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 21;-111.7; 01-JUN-2004 07:21:12; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;11783
 22; 83.3; 01-JUN-2004 07:24:27; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;11784
 23; 196.7; 01-JUN-2004 07:26:20; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11784
 24; 492.8; 01-JUN-2004 07:31:16; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11784
 25; 707.4; 01-JUN-2004 07:34:51; Dark ; 51.5; 43; Alp TrA ; 1.91; 4250;occ; 103; 0;11784
 26; 831.3; 01-JUN-2004 07:36:55; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11784
 27; 937.5; 01-JUN-2004 07:38:41; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11784
 28; 1038.8; 01-JUN-2004 07:40:22; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11784
 29; 1146.6; 01-JUN-2004 07:42:10; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;11784
 30; 1252.0; 01-JUN-2004 07:43:56; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;11784
 31; 1373.5; 01-JUN-2004 07:45:57; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11784
 32; 1498.2; 01-JUN-2004 07:48:02; Bright; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;11784
 33; 1590.3; 01-JUN-2004 07:49:34; Bright; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;11784
 34; 1701.5; 01-JUN-2004 07:51:25; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;11784

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 5;-3473.0; 01-JUN-2004 08:05:46; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;11784
 6;-3267.8; 01-JUN-2004 08:09:12; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;11784
 7;-3159.2; 01-JUN-2004 08:11:00; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;11784
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 21; 197.4; 01-JUN-2004 09:06:57; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;11785
 22; 493.5; 01-JUN-2004 09:11:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;11785
 23; 707.7; 01-JUN-2004 09:15:27; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;11785
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 25; 938.0; 01-JUN-2004 09:19:17; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;11785
 26; 1039.2; 01-JUN-2004 09:20:59; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;11785
 27; 1146.7; 01-JUN-2004 09:22:46; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;11785
 28; 1252.1; 01-JUN-2004 09:24:32; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;11785
 29; 1373.6; 01-JUN-2004 09:26:33; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;11785
 30; 1498.2; 01-JUN-2004 09:28:38; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;11785
 31; 1590.3; 01-JUN-2004 09:30:10; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;11785
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 4;-3779.4; 01-JUN-2004 09:41:16; Bright; 38.5; 3; 16Alp Boo ;-0.05; 4250;occ; 77; 0;11785
 5;-3669.2; 01-JUN-2004 09:43:06; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;11785
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12;-2414.1; 01-JUN-2004 10:04:01; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;11785
13;-2271.4; 01-JUN-2004 10:06:24; Bright; 83.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 166; 0;11785
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17;-1384.9; 01-JUN-2004 10:21:10; Dark ; 92.0; 93; 53Bet Peg ; 2.52; 3100;occ; 184; 0;11785
18;-1179.9; 01-JUN-2004 10:24:35; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;11785
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23; -111.6; 01-JUN-2004 10:42:24; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;11785
24; 84.9; 01-JUN-2004 10:45:40; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;11786
25; 198.2; 01-JUN-2004 10:47:34; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;11786
26; 493.7; 01-JUN-2004 10:52:29; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;11786
27; 707.4; 01-JUN-2004 10:56:03; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;11786
28; 830.9; 01-JUN-2004 10:58:06; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;11786
29; 938.1; 01-JUN-2004 10:59:53; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;11786
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32; 1252.1; 01-JUN-2004 11:05:07; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;11786
33; 1373.3; 01-JUN-2004 11:07:09; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;11786
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 5;-3779.8; 01-JUN-2004 11:21:51; Bright; 40.5; 3; 16Alp Boo ;-0.05; 4250;occ; 81; 0;11786
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15;-2109.8; 01-JUN-2004 11:49:41; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;11786
16;-1642.0; 01-JUN-2004 11:57:29; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;11786
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26; 198.9; 01-JUN-2004 12:28:10; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;11787
27; 494.1; 01-JUN-2004 12:33:05; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;11787
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29; 831.2; 01-JUN-2004 12:38:42; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;11787
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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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8; 738.6; 30-JUN-2004 02:22:03; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;12196
9; 972.0; 30-JUN-2004 02:25:56; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;12196
10; 1056.9; 30-JUN-2004 02:27:21; Dark ; 43.5; 147; Alp Ara ; 2.88; 26000;occ; 87; 0;12196
11; 1167.3; 30-JUN-2004 02:29:11; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;12196
12; 1266.7; 30-JUN-2004 02:30:51; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;12196
13; 1351.8; 30-JUN-2004 02:32:16; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;12196
14; 1477.0; 30-JUN-2004 02:34:21; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;12196
15; 1637.2; 30-JUN-2004 02:37:01; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;12196
16; 1744.3; 30-JUN-2004 02:38:48; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;12196
17; 1874.0; 30-JUN-2004 02:40:58; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;12196
18; 1980.4; 30-JUN-2004 02:42:44; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;12196
19; 2120.3; 30-JUN-2004 02:45:04; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;12196
20; 2280.6; 30-JUN-2004 02:47:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;12196
21; 2445.5; 30-JUN-2004 02:50:30; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;12196
22; 2654.0; 30-JUN-2004 02:53:58; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;12196
23; 2808.6; 30-JUN-2004 02:56:33; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;12196
24; 2950.4; 30-JUN-2004 02:58:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;12196
25; 3188.7; 30-JUN-2004 03:02:53; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;12196
26; 3348.3; 30-JUN-2004 03:05:32; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;12196

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