

GOMOS Daily Report 22-OCT-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	24OCT2004 05:01:45
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (22OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	42
Nb of prods with errors	1

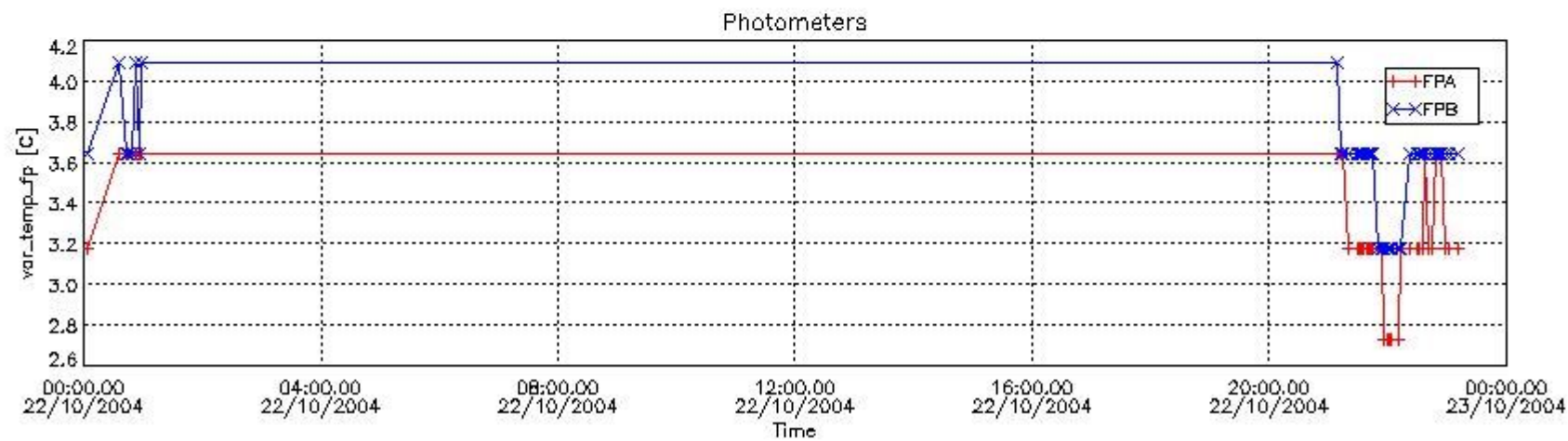
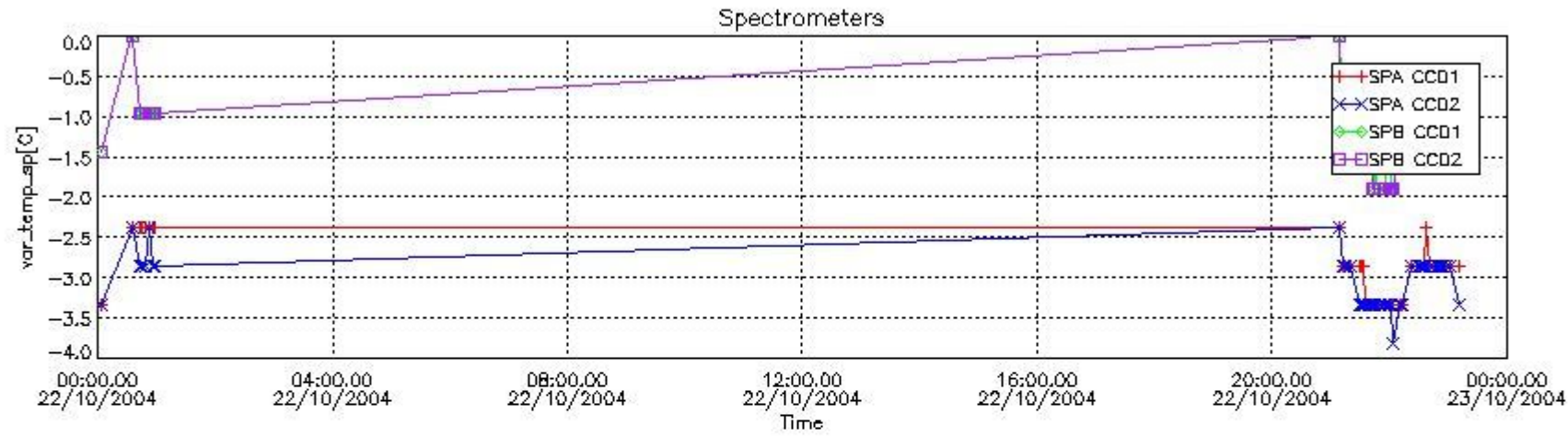
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20041022_000252_000000392031_00245_13826_0020.N1	22-OCT-2004 00:02:52	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	13826	No
GOM_TRA_1PNPDE20041022_003456_000000602031_00245_13826_0000.N1	22-OCT-2004 00:34:56	Twilight	59.500	48	30Alp Hya	1.9770	4100.0	119	13826	No
GOM_TRA_1PNPDE20041022_004243_000000432031_00245_13826_0001.N1	22-OCT-2004 00:42:43	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	13826	No
GOM_TRA_1PNPDE20041022_004414_000000542031_00245_13826_0002.N1	22-OCT-2004 00:44:14	Dark	53.500	65	Lam Vel	2.2040	4400.0	107	13826	No
GOM_TRA_1PNPDE20041022_004910_000000422031_00246_13827_0003.N1	22-OCT-2004 00:49:10	Dark	42.000	29	Bet Car	1.6720	10200.	84	13827	No
GOM_TRA_1PNPDE20041022_005317_000000522031_00246_13827_0004.N1	22-OCT-2004 00:53:17	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	13827	No
GOM_TRA_1PNPDE20041022_005622_000000792031_00246_13827_0005.N1	22-OCT-2004 00:56:22	Dark	78.500	177	1Zet CMa	3.0220	26000.	157	13827	No
GOM_TRA_1PNPDE20041022_005855_000000642031_00246_13827_0006.N1	22-OCT-2004 00:58:55	Dark	63.500	108	Alp Col	2.6520	15200.	127	13827	No
GOM_TRA_1PNPDE20041022_210853_000000492031_00258_13839_0000.N1	22-OCT-2004 21:08:53	Dark	48.500	9	Alp Eri	0.45300	24000.	97	13839	Yes
GOM_TRA_1PNPDE20041022_211148_000000462031_00258_13839_0001.N1	22-OCT-2004 21:11:48	Dark	45.500	157	The1Eri	2.9060	9300.0	91	13839	No
GOM_TRA_1PNPDE20041022_211346_000000422031_00258_13839_0002.N1	22-OCT-2004 21:13:46	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	13839	No
GOM_TRA_1PNPDE20041022_212018_000000462031_00258_13839_0003.N1	22-OCT-2004 21:20:18	Bright	45.500	52	16Bet Cet	2.0370	4500.0	91	13839	No
GOM_TRA_1PNPDE20041022_212948_000000372031_00258_13839_0004.N1	22-OCT-2004 21:29:48	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	13839	No
GOM_TRA_1PNPDE20041022_213200_000000432031_00258_13839_0005.N1	22-OCT-2004 21:32:00	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	13839	No
GOM_TRA_1PNPDE20041022_213339_000000402031_00258_13839_0006.N1	22-OCT-2004 21:33:39	Bright	40.000	58	21Alp And	2.0730	11000.	80	13839	No
GOM_TRA_1PNPDE20041022_213543_000000392031_00258_13839_0007.N1	22-OCT-2004 21:35:43	Bright	39.000	53	43Bet And	2.0480	3300.0	78	13839	No
GOM_TRA_1PNPDE20041022_213843_000000442031_00258_13839_0008.N1	22-OCT-2004 21:38:43	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13839	No
GOM_TRA_1PNPDE20041022_214127_000000382031_00258_13839_0009.N1	22-OCT-2004 21:41:27	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	13839	No
GOM_TRA_1PNPDE20041022_214245_000000362031_00258_13839_0010.N1	22-OCT-2004 21:42:45	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	13839	No
GOM_TRA_1PNPDE20041022_214510_000000392031_00258_13839_0011.N1	22-OCT-2004 21:45:10	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13839	No
GOM_TRA_1PNPDE20041022_215039_000000402031_00258_13839_0012.N1	22-OCT-2004 21:50:39	Bright	40.000	49	1Alp UMi	1.9900	6300.0	80	13839	No
GOM_TRA_1PNPDE20041022_215404_000000382031_00258_13839_0013.N1	22-OCT-2004 21:54:04	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	13839	No
GOM_TRA_1PNPDE20041022_215550_000000822031_00258_13839_0014.N1	22-OCT-2004 21:55:50	Bright	82.000	42	34Bet Aur	1.9000	10200.	164	13839	No
GOM_TRA_1PNPDE20041022_215854_000000412031_00258_13839_0015.N1	22-OCT-2004 21:58:54	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13839	No
GOM_TRA_1PNPDE20041022_220030_000000542031_00258_13839_0016.N1	22-OCT-2004 22:00:30	Bright	54.000	82	48Bet UMa	2.3650	10600.	108	13839	No
GOM_TRA_1PNPDE20041022_220400_000000382031_00258_13839_0017.N1	22-OCT-2004 22:04:00	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13839	No
GOM_TRA_1PNPDE20041022_221059_000000372031_00258_13839_0018.N1	22-OCT-2004 22:10:59	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	13839	No
GOM_TRA_1PNPDE20041022_221255_000001732031_00258_13839_0019.N1	22-OCT-2004 22:12:55	Twilight	172.50	17	78Bet Gem	1.1610	4500.0	345	13839	No
GOM_TRA_1PNPDE20041022_222255_000000572031_00258_13839_0000.N1	22-OCT-2004 22:22:55	Twilight	57.000	48	30Alp Hya	1.9770	4100.0	114	13839	No
GOM_TRA_1PNPDE20041022_223034_000000412031_00258_13839_0001.N1	22-OCT-2004 22:30:34	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	13839	No
GOM_TRA_1PNPDE20041022_223209_000000582031_00258_13839_0002.N1	22-OCT-2004 22:32:09	Dark	58.000	65	Lam Vel	2.2040	4400.0	116	13839	No
GOM_TRA_1PNPDE20041022_223507_000000452031_00259_13840_0003.N1	22-OCT-2004 22:35:07	Dark	44.500	46	Del Vel	1.9540	10600.	89	13840	No
GOM_TRA_1PNPDE20041022_223745_000000712031_00259_13840_0004.N1	22-OCT-2004 22:37:45	Dark	70.500	88	31Eta CMa	2.4480	20000.	141	13840	No
GOM_TRA_1PNPDE20041022_224113_000000542031_00259_13840_0005.N1	22-OCT-2004 22:41:13	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13840	No
GOM_TRA_1PNPDE20041022_224431_000000742031_00259_13840_0006.N1	22-OCT-2004 22:44:31	Dark	74.000	177	1Zet CMa	3.0220	26000.	148	13840	No
GOM_TRA_1PNPDE20041022_224804_000000412031_00259_13840_0007.N1	22-OCT-2004 22:48:04	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13840	No
GOM_TRA_1PNPDE20041022_224926_000000522031_00259_13840_0008.N1	22-OCT-2004 22:49:26	Dark	52.000	9	Alp Eri	0.45300	24000.	104	13840	No
GOM_TRA_1PNPDE20041022_225222_000000492031_00259_13840_0009.N1	22-OCT-2004 22:52:22	Dark	49.000	157	The1Eri	2.9060	9300.0	98	13840	No
GOM_TRA_1PNPDE20041022_225422_000000432031_00259_13840_0010.N1	22-OCT-2004 22:54:22	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	13840	No
GOM_TRA_1PNPDE20041022_225714_000002132031_00259_13840_0011.N1	22-OCT-2004 22:57:14	Bright	213.00	101	11Alp Lep	2.5820	7000.0	426	13840	No
GOM_TRA_1PNPDE20041022_230130_000000882031_00259_13840_0012.N1	22-OCT-2004 23:01:30	Bright	88.000	165	34Gam Eri	2.9500	3200.0	176	13840	No
GOM_TRA_1PNPDE20041022_231023_000000382031_00259_13840_0013.N1	22-OCT-2004 23:10:23	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13840	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).

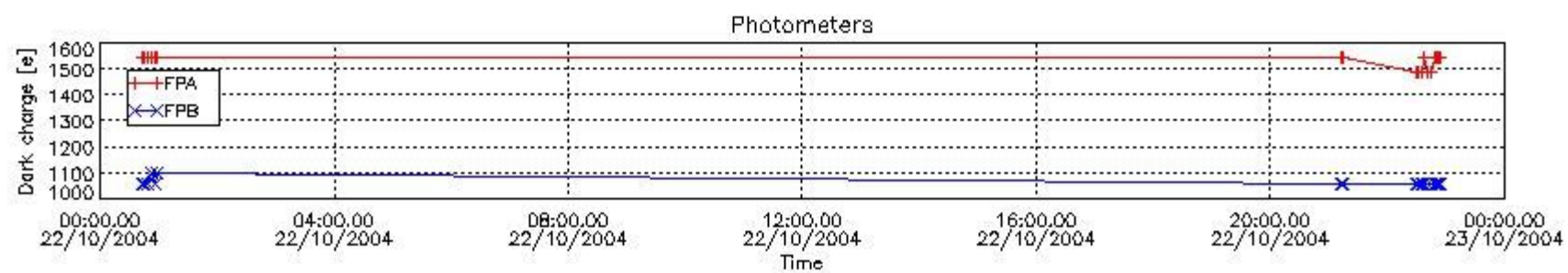
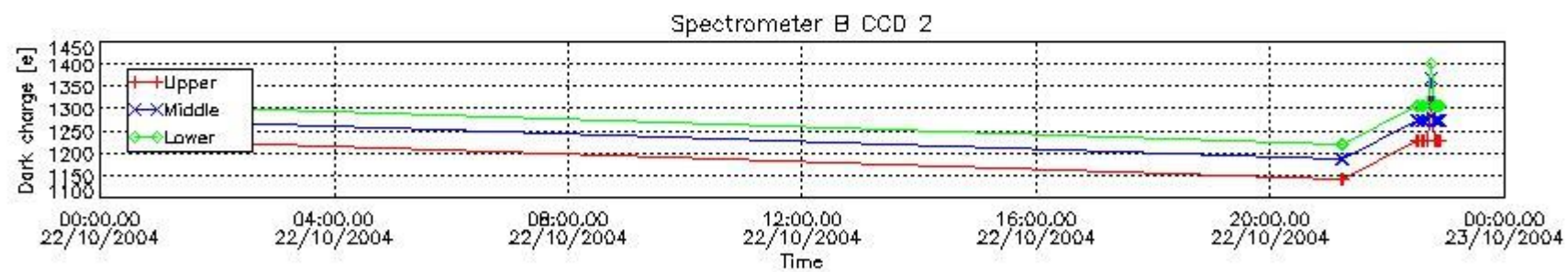
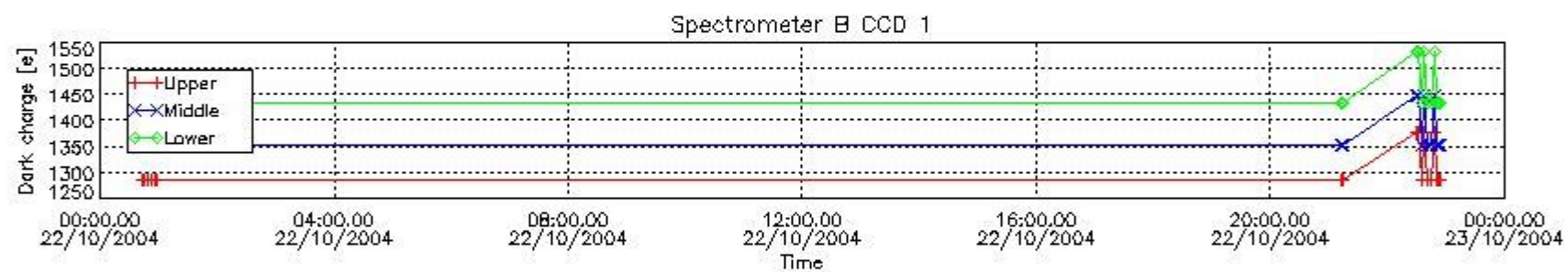
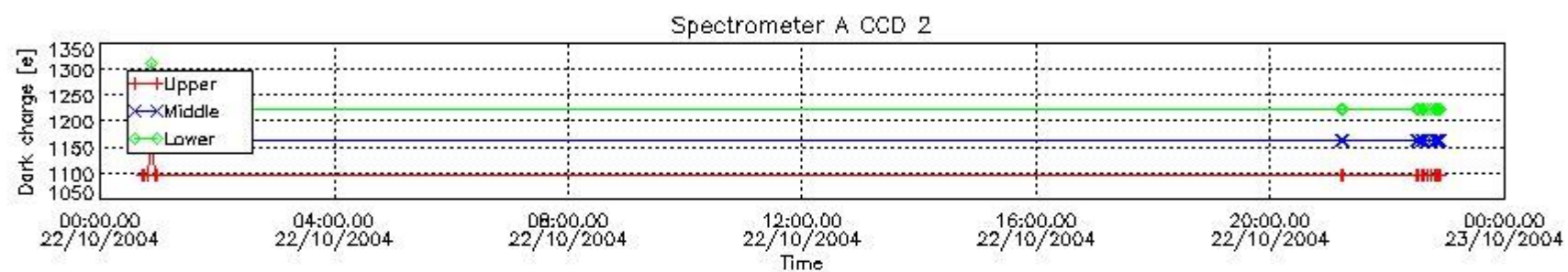
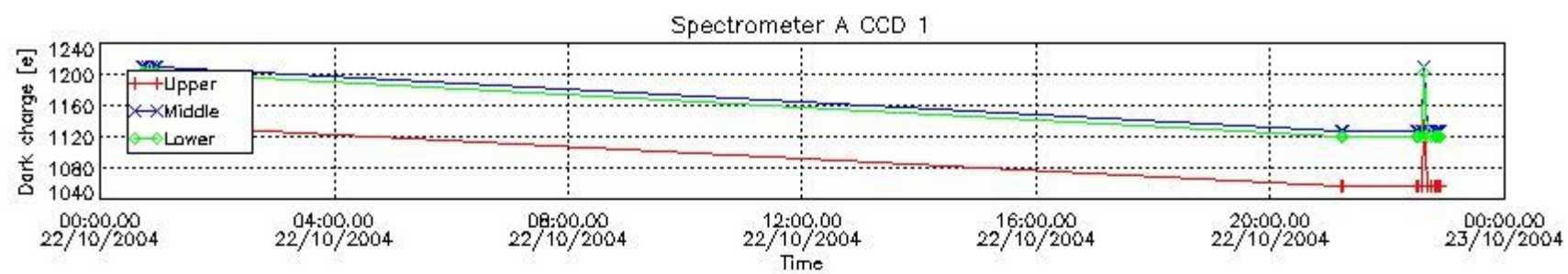
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20041022_000252_000000392031_00245_13826_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_003456_000000602031_00245_13826_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20041022_004243_000000432031_00245_13826_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_004414_000000542031_00245_13826_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_004910_000000422031_00246_13827_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_005317_000000522031_00246_13827_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_005622_000000792031_00246_13827_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_005855_000000642031_00246_13827_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_210853_000000492031_00258_13839_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20041022_211148_000000462031_00258_13839_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_211346_000000422031_00258_13839_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_212018_000000462031_00258_13839_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_212948_000000372031_00258_13839_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_213200_000000432031_00258_13839_0005.N1	DC map used (0)

GOM_TRA_1PNPDE20041022_213339_000000402031_00258_13839_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_213543_000000392031_00258_13839_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_213843_000000442031_00258_13839_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_214127_000000382031_00258_13839_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_214245_000000362031_00258_13839_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_214510_000000392031_00258_13839_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_215039_000000402031_00258_13839_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_215404_000000382031_00258_13839_0013.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_215550_000000822031_00258_13839_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_215854_000000412031_00258_13839_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_220030_000000542031_00258_13839_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_220400_000000382031_00258_13839_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_221059_000000372031_00258_13839_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_221255_000001732031_00258_13839_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_222255_000000572031_00258_13839_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_223034_000000412031_00258_13839_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_223209_000000582031_00258_13839_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_223507_000000452031_00259_13840_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_223745_000000712031_00259_13840_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_224113_000000542031_00259_13840_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_224431_000000742031_00259_13840_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_224804_000000412031_00259_13840_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_224926_000000522031_00259_13840_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_225222_000000492031_00259_13840_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_225422_000000432031_00259_13840_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_225714_000002132031_00259_13840_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_230130_000000882031_00259_13840_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041022_231023_000000382031_00259_13840_0013.N1	DC map used (0)

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



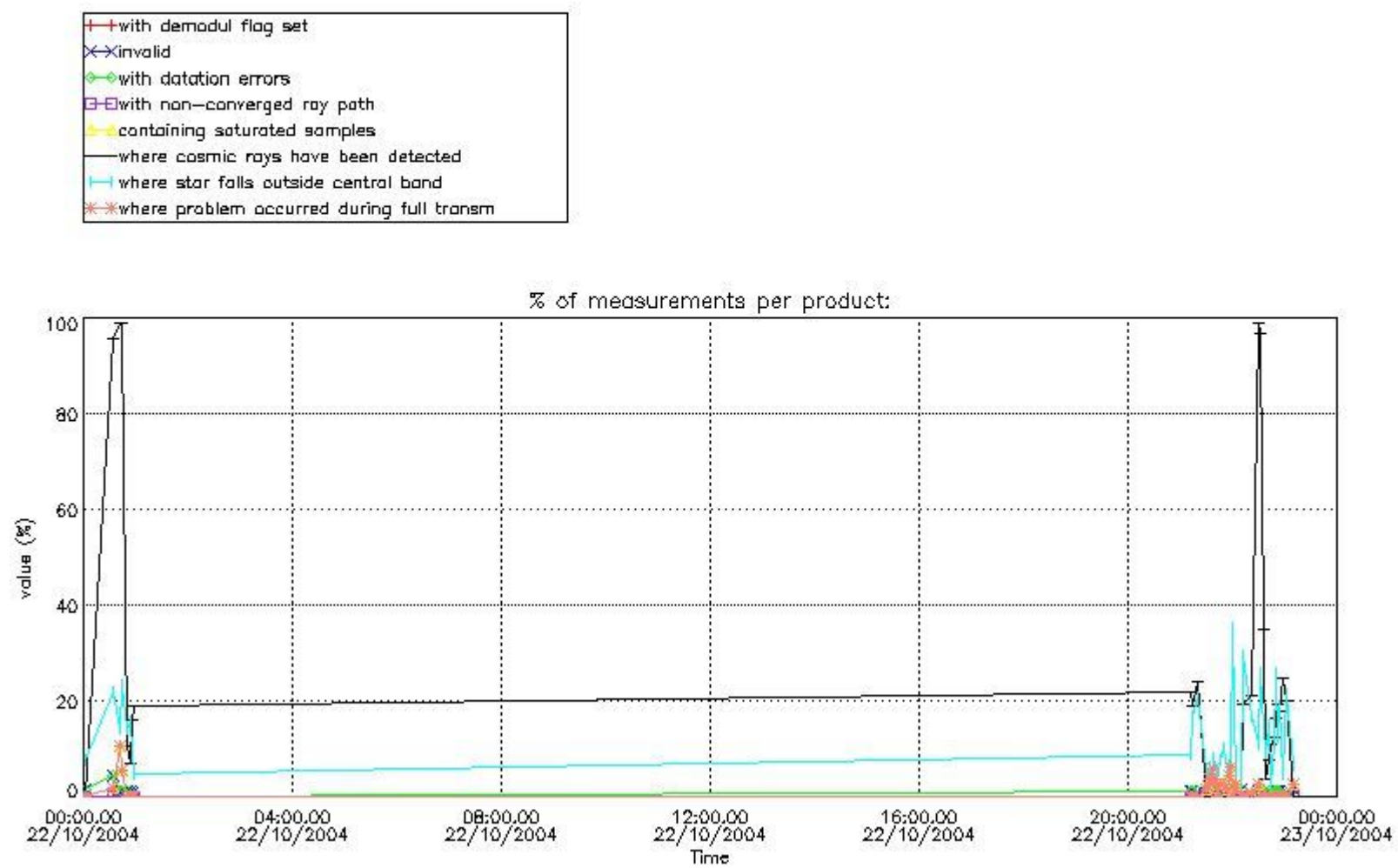
5. Demodulation flag and quality information monitoring

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.

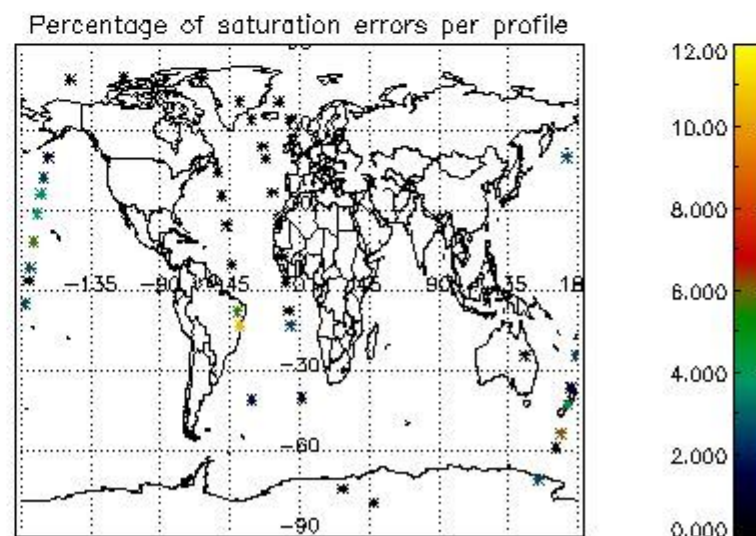
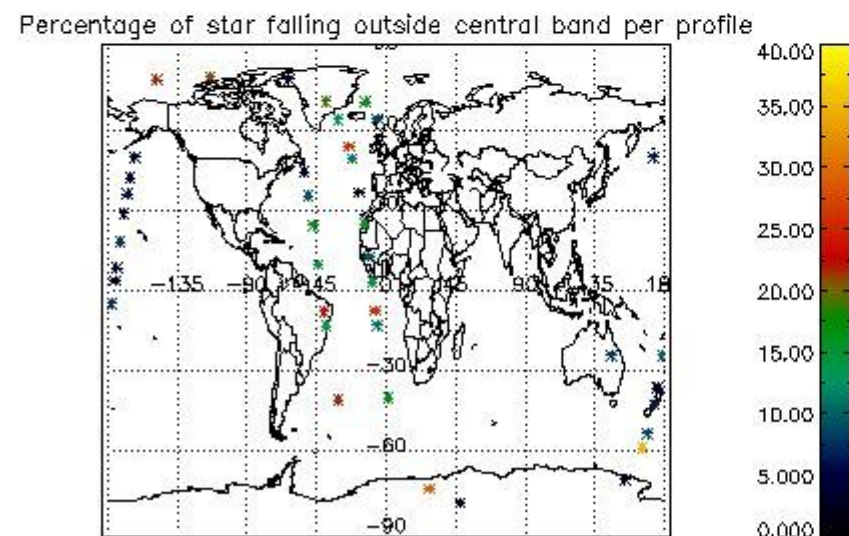
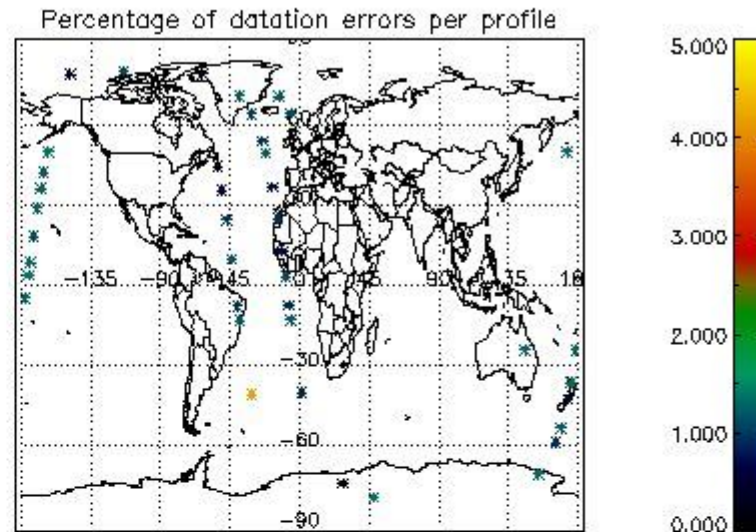
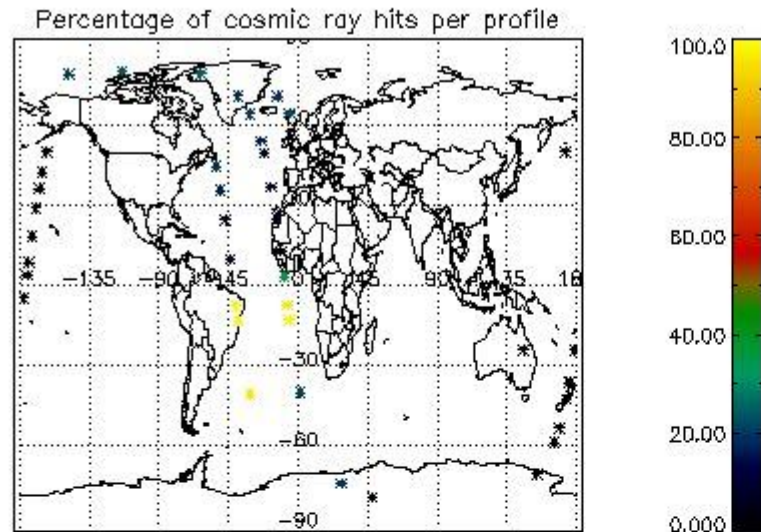
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.6341 %
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)



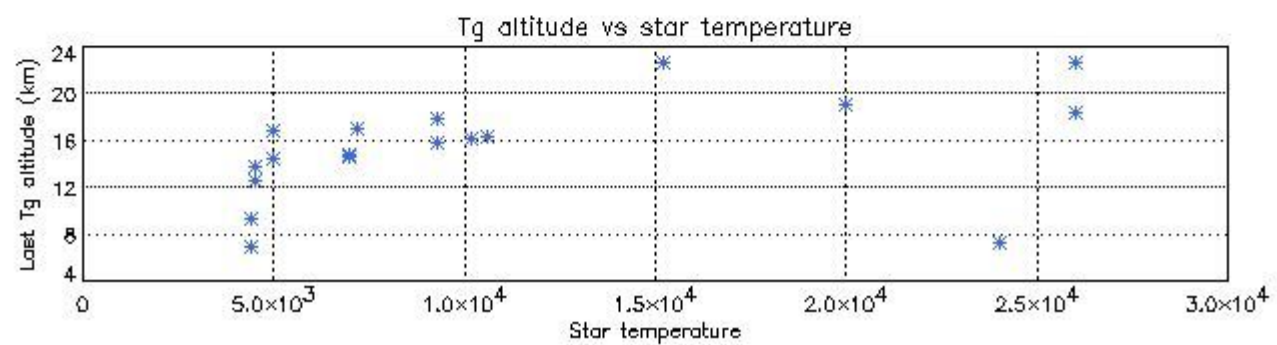
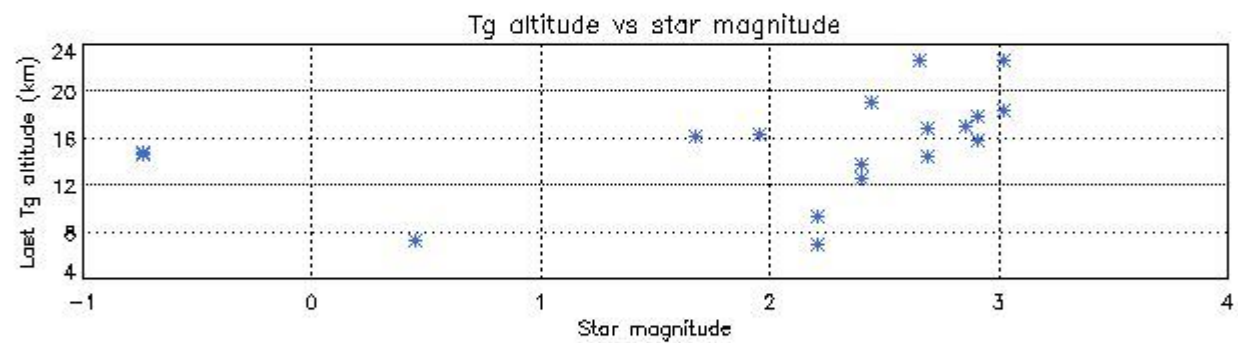
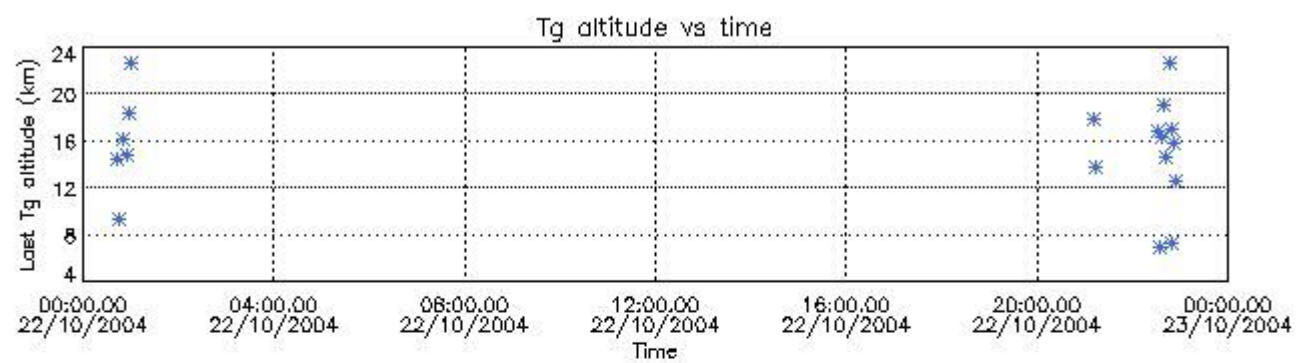
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.319	19.410	10.818
St. deviation:	4.3863	5.0262	2.6406
Maximum:	22.578	26.036	13.438
Minimum:	6.9130	4.5854	8.1575
Number of data:	18.000	20.000	3.0000

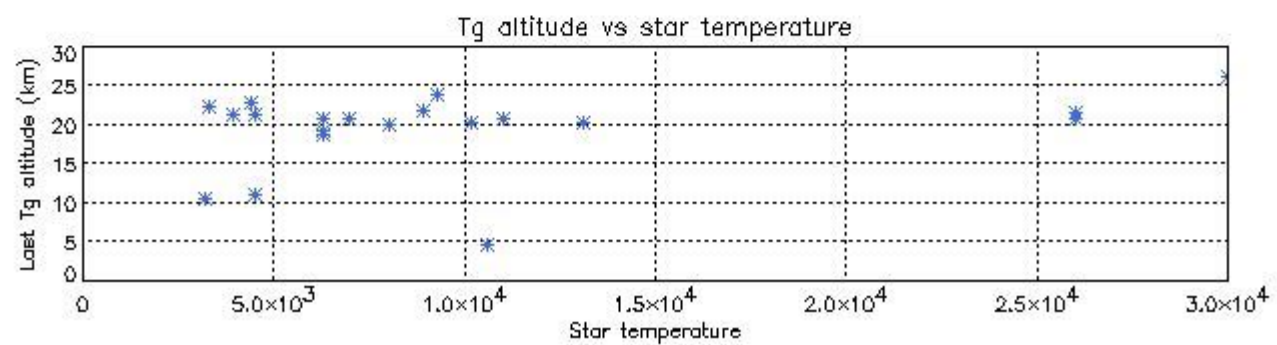
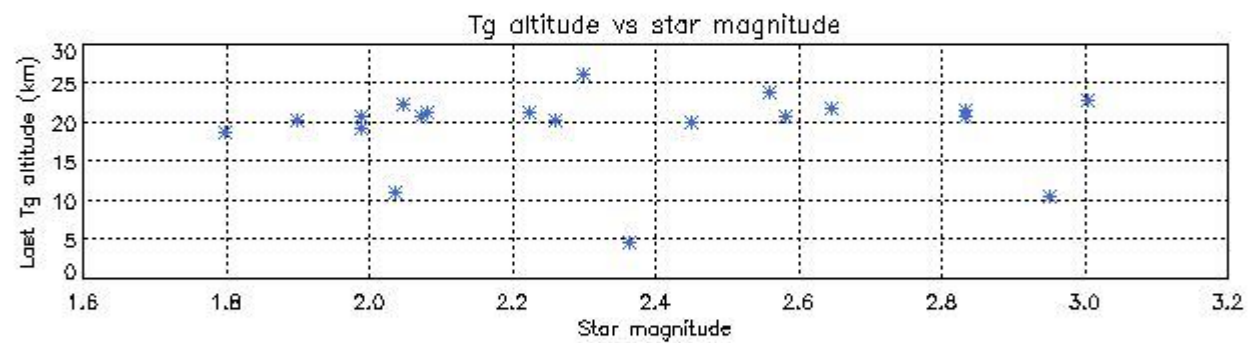
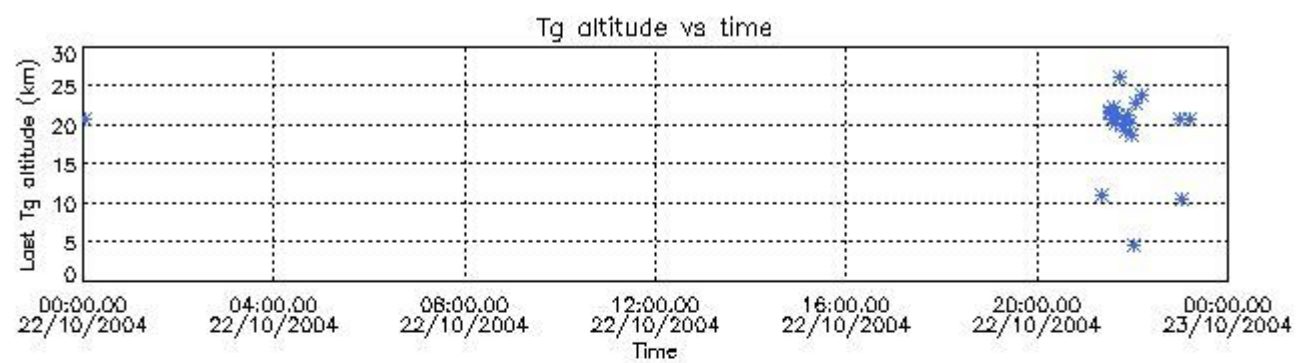
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



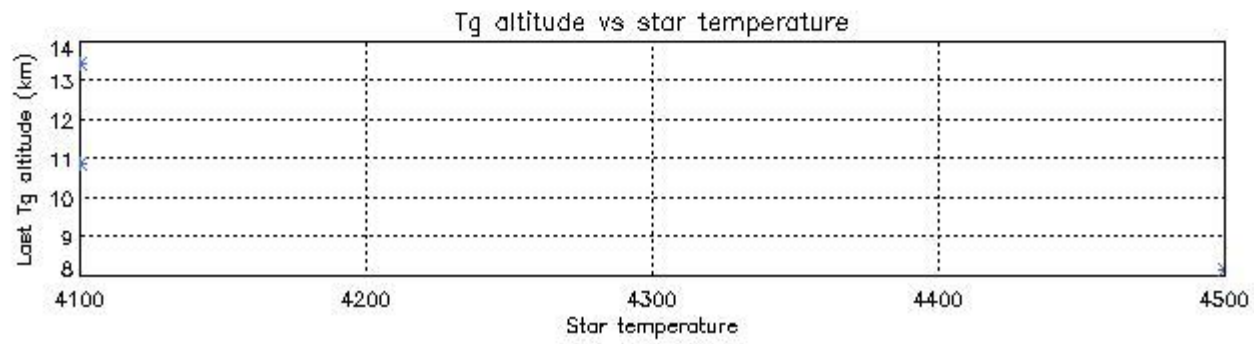
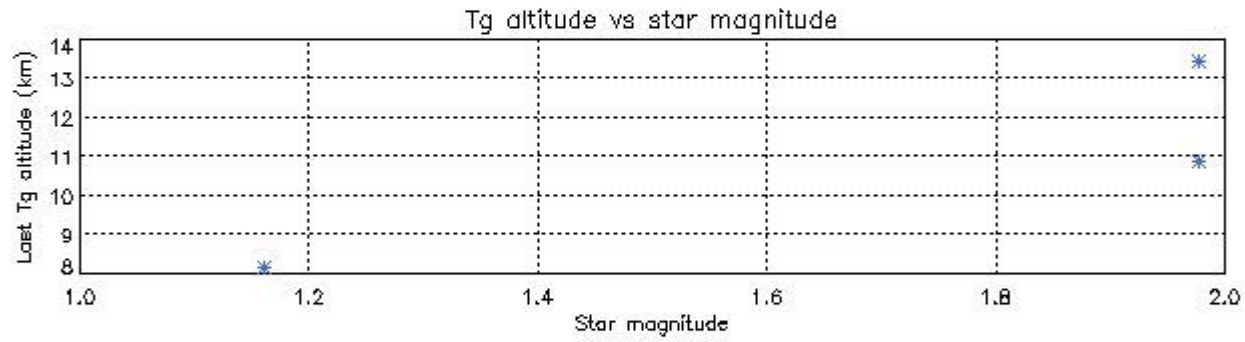
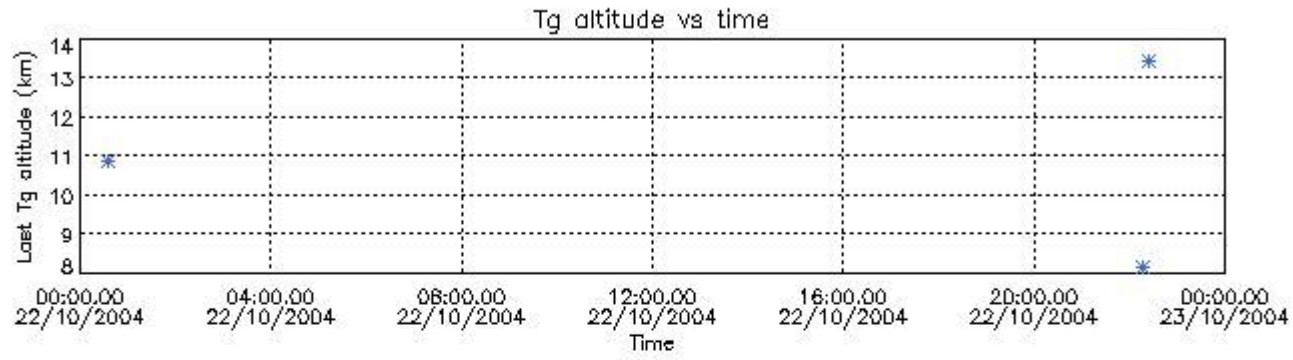
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

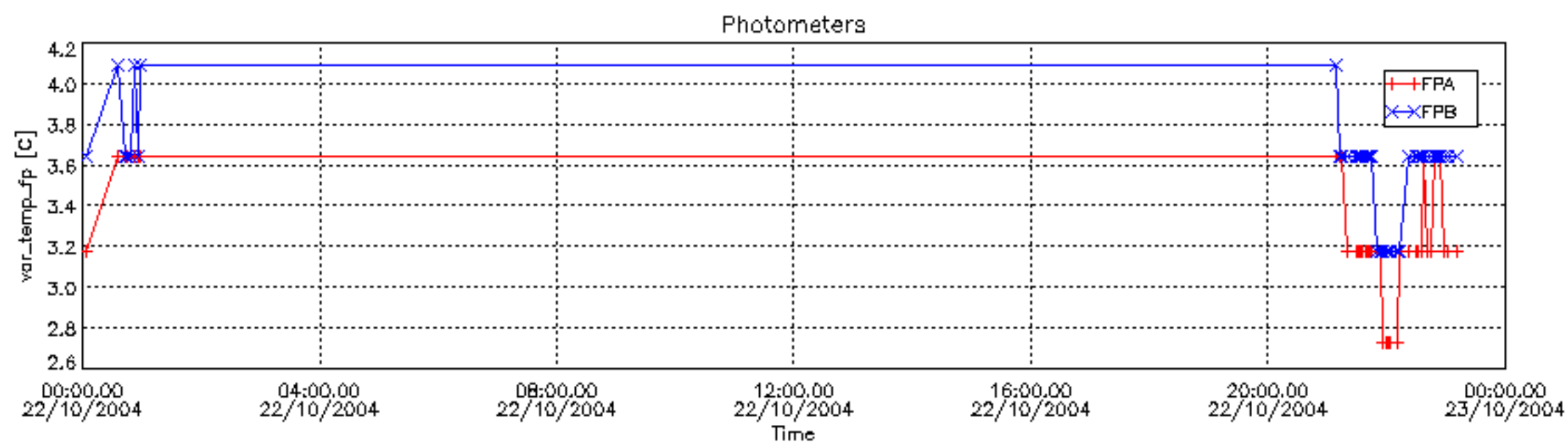
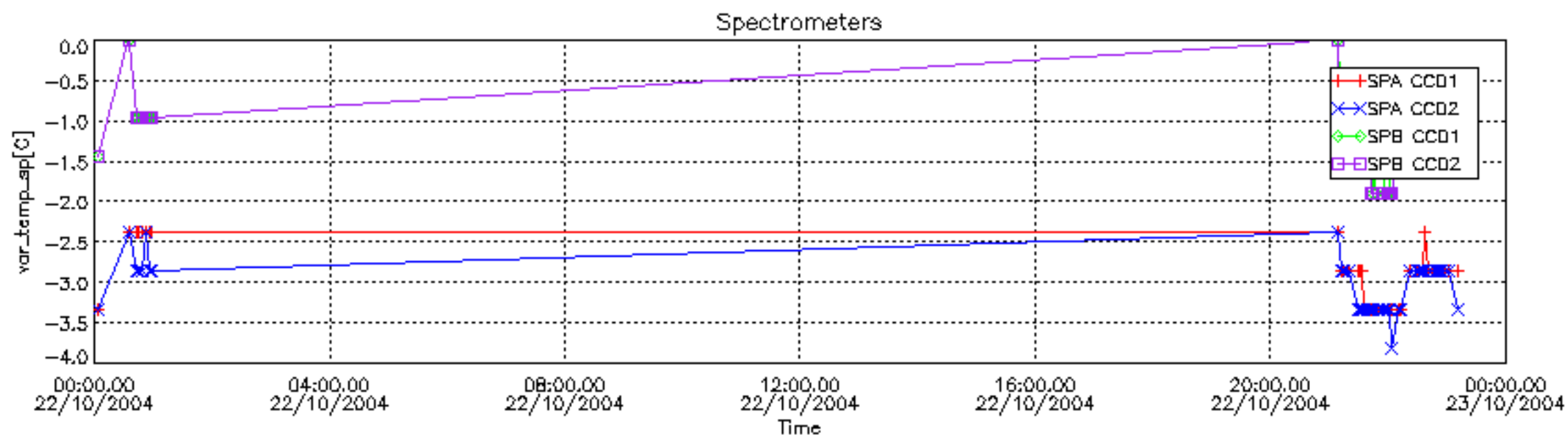
Tangent altitude at which the star is lost

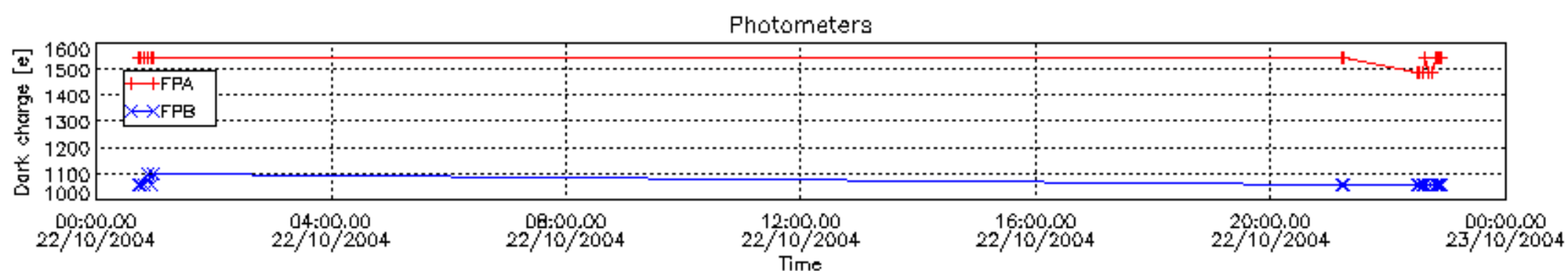
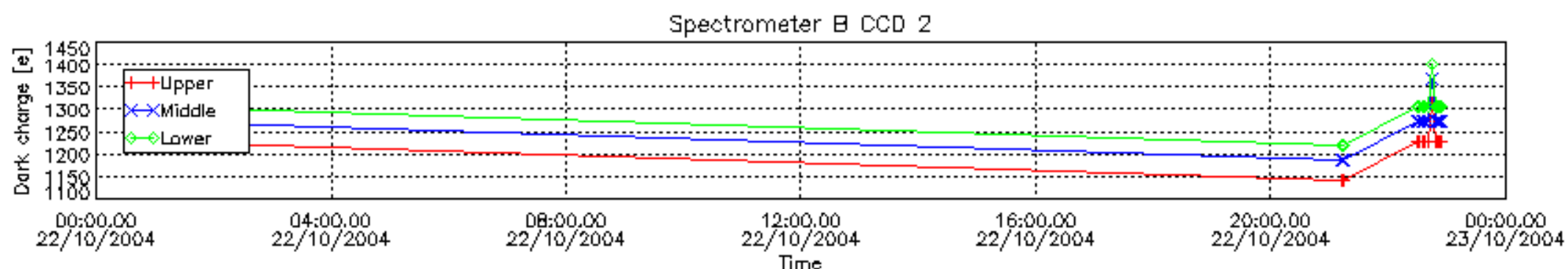
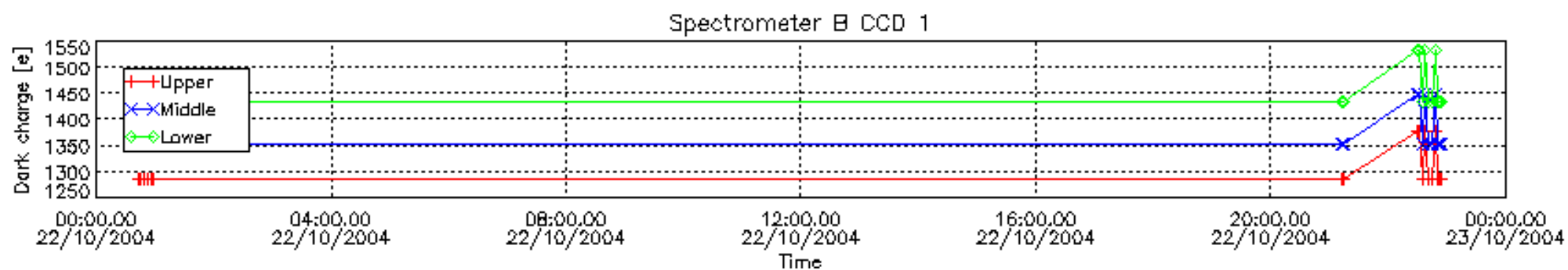
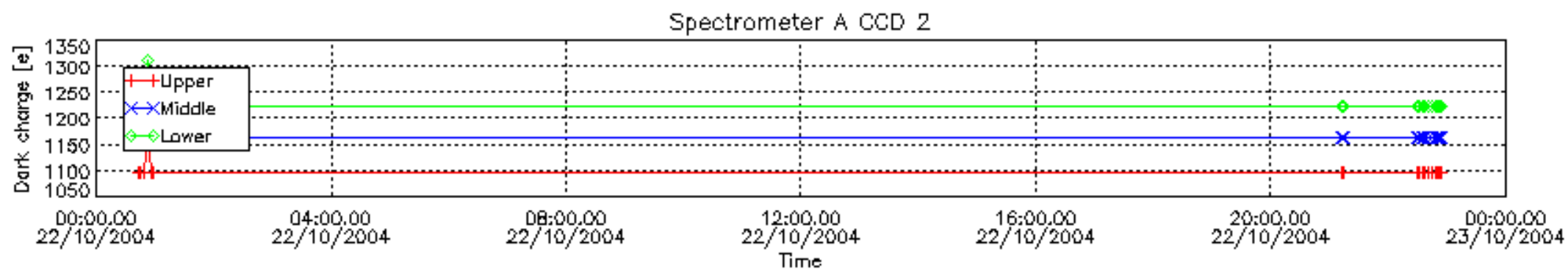
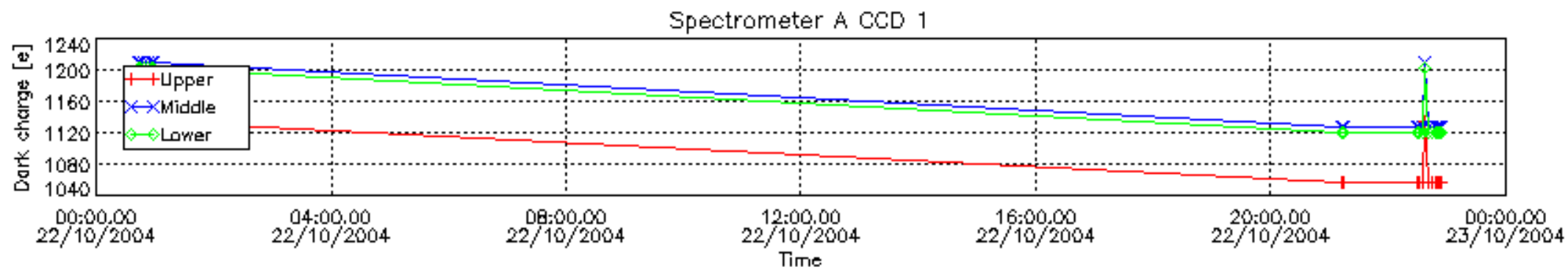


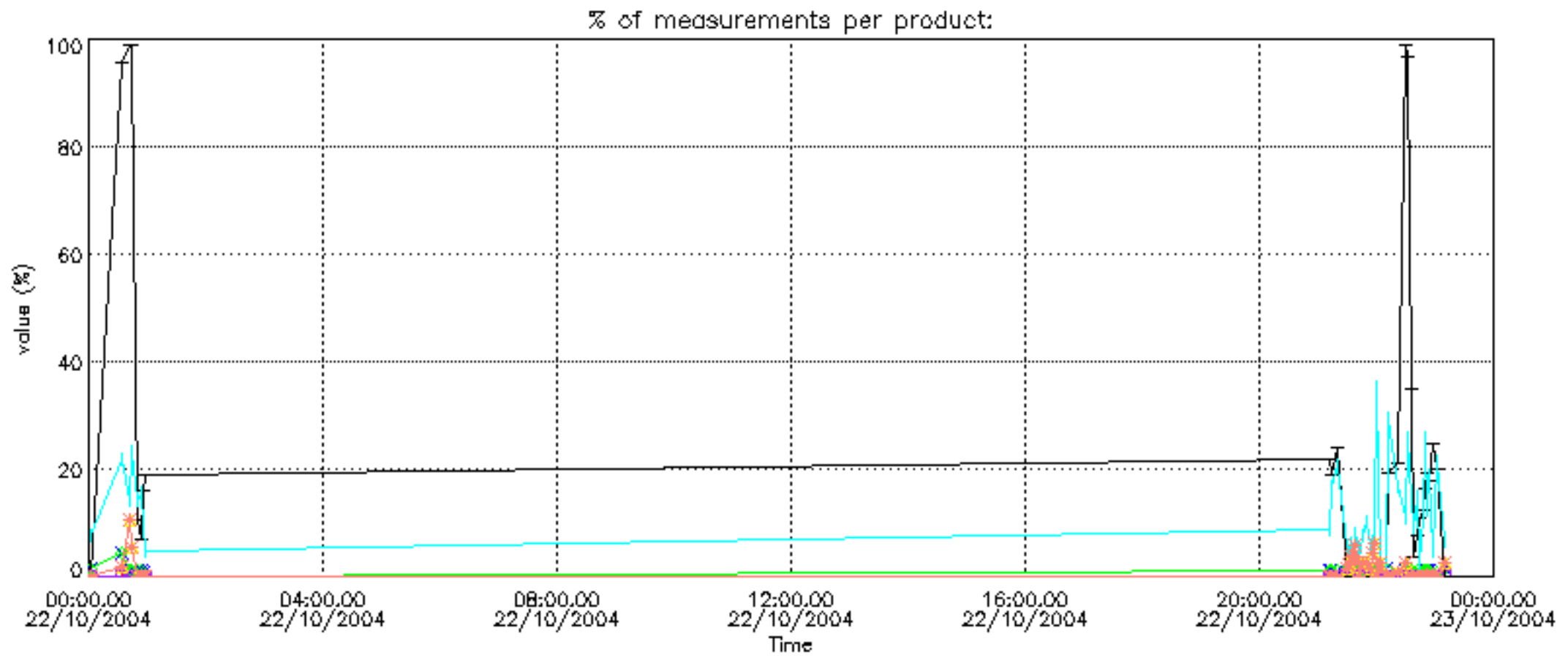
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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.

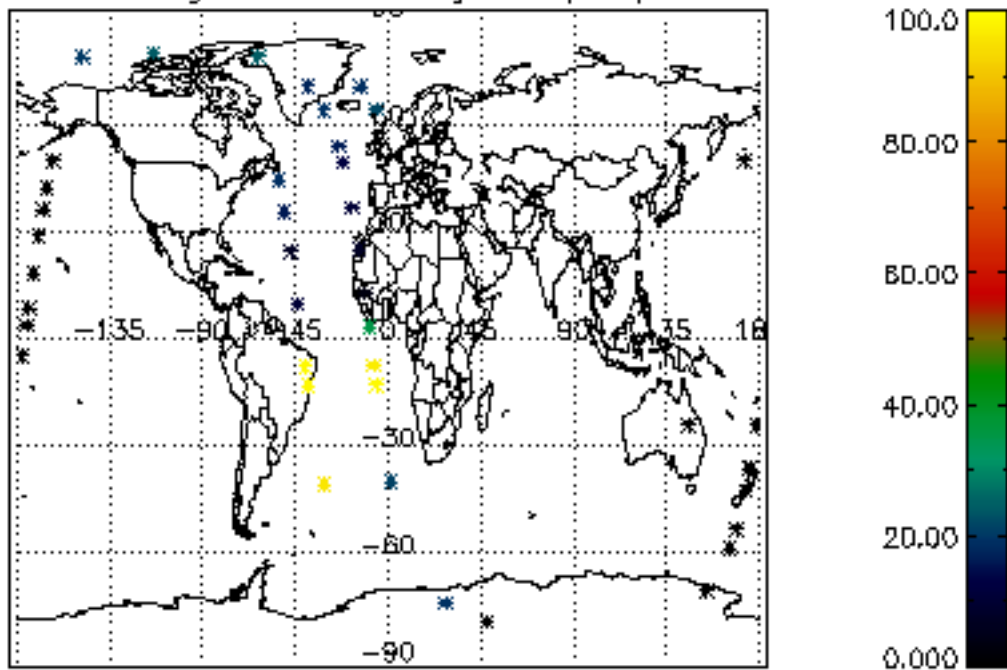
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.6	1461.4	1447.1
St. deviation:	5.8770	6.9382	6.9443	7.8636
Maximum:	1512.0	1499.0	1506.0	1505.0
Minimum:	1449.0	1437.0	1421.0	1391.0
Number of data:	25100.	25100.	25850.	25850.



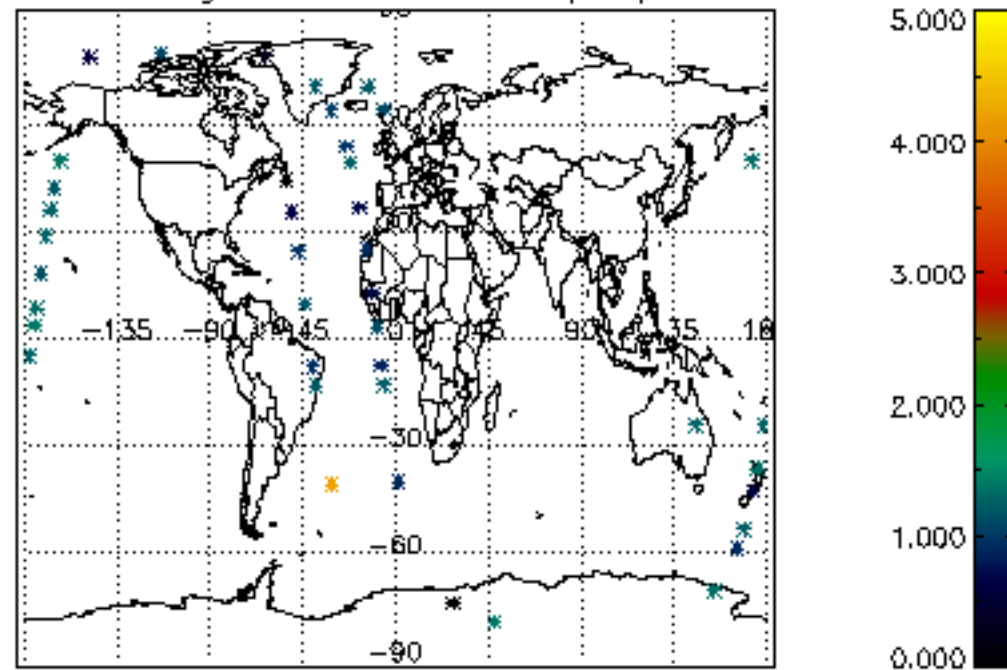




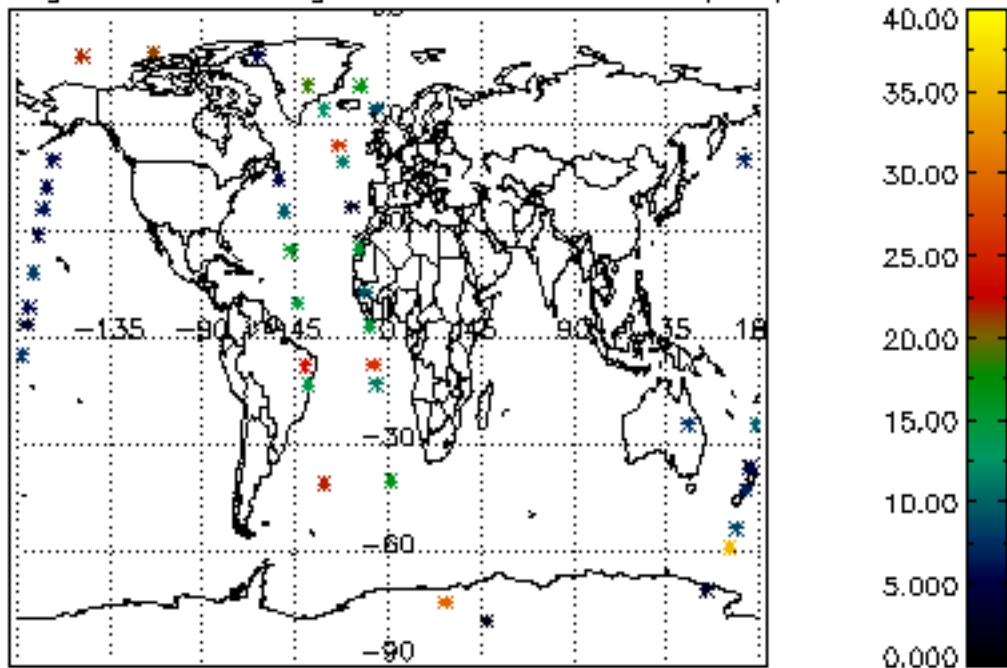
Percentage of cosmic ray hits per profile



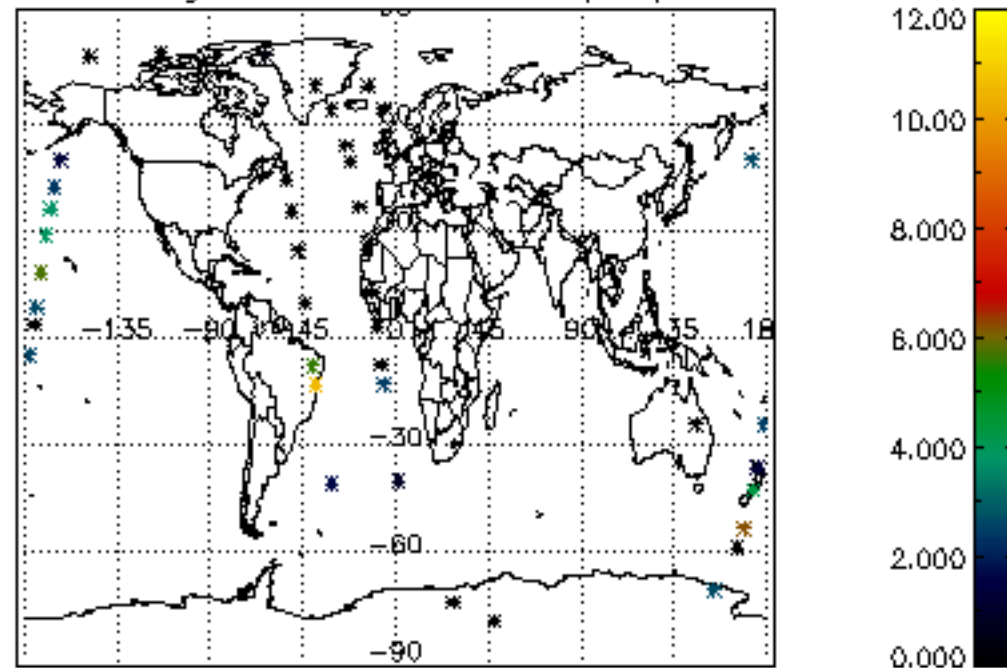
Percentage of datation errors per profile



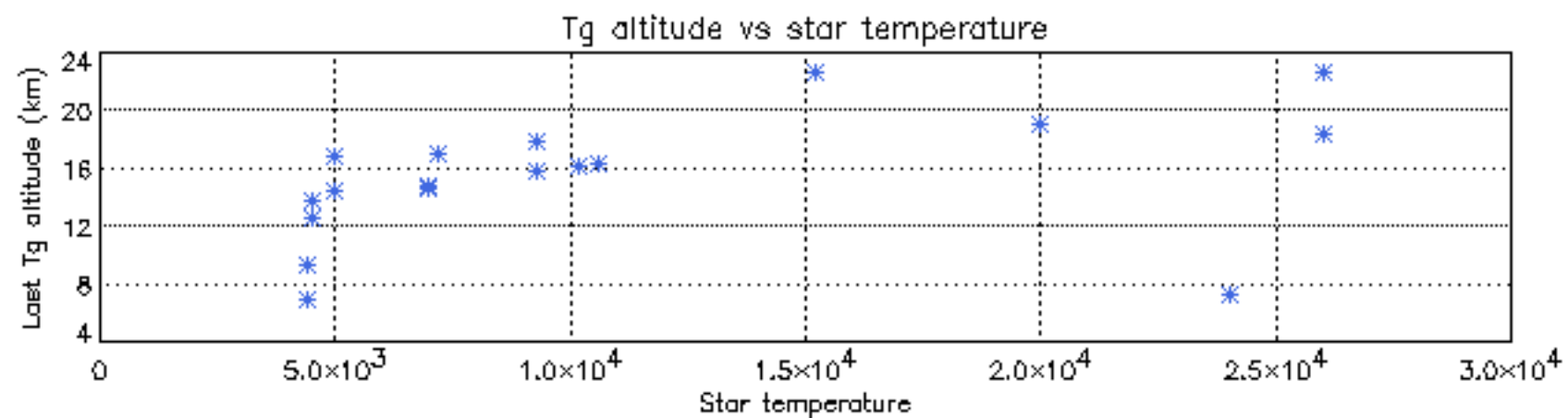
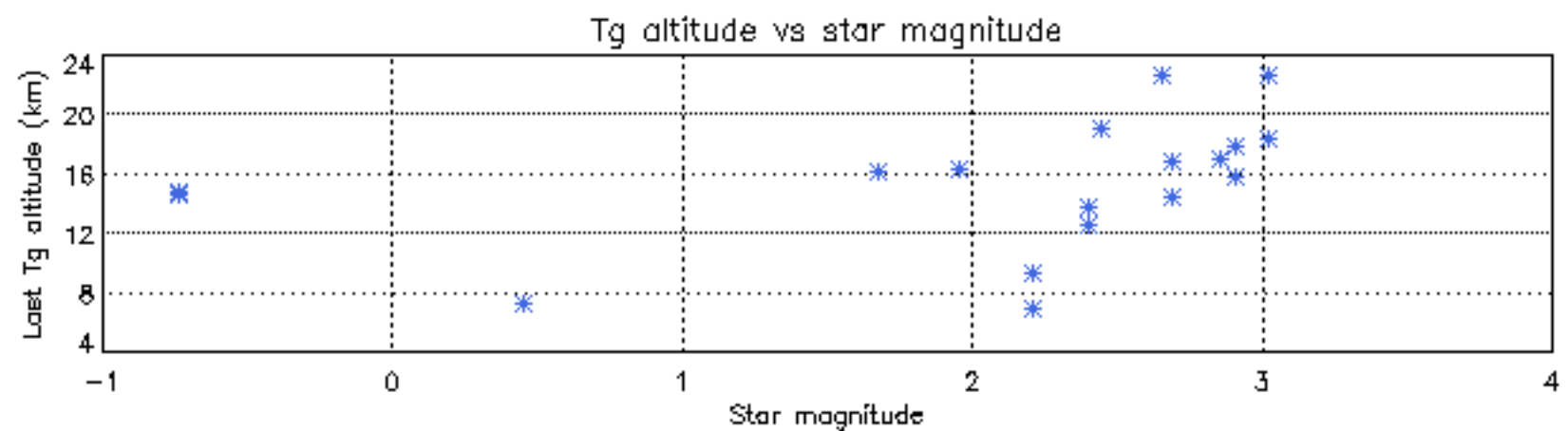
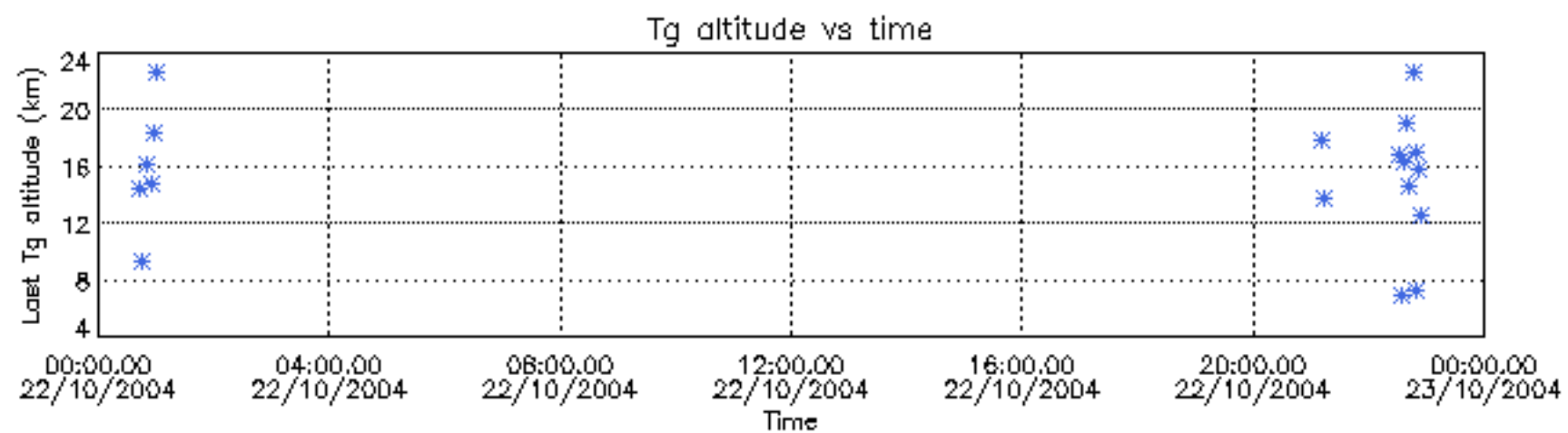
Percentage of star falling outside central band per profile



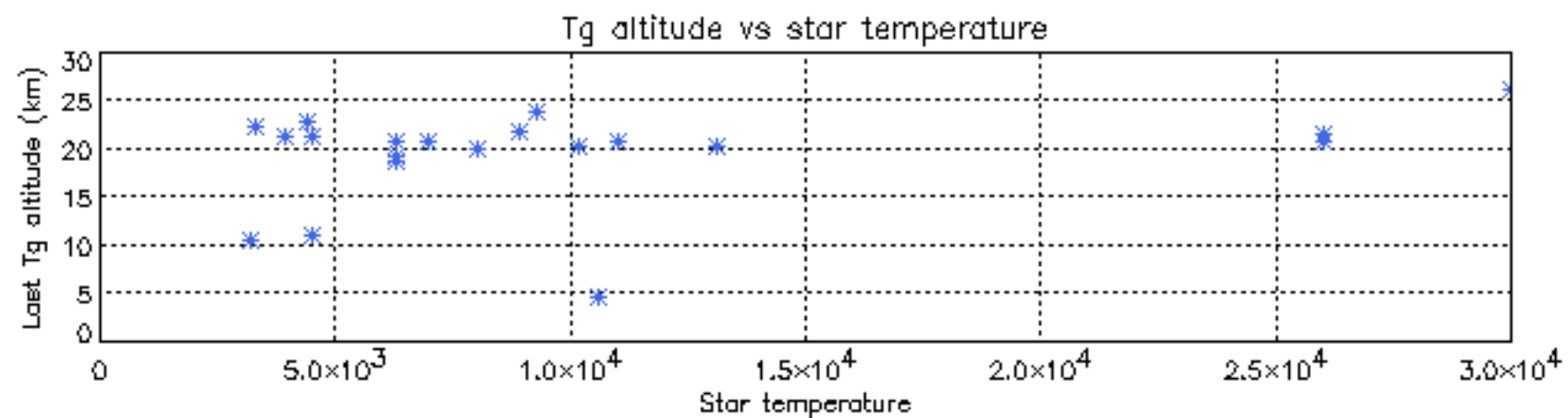
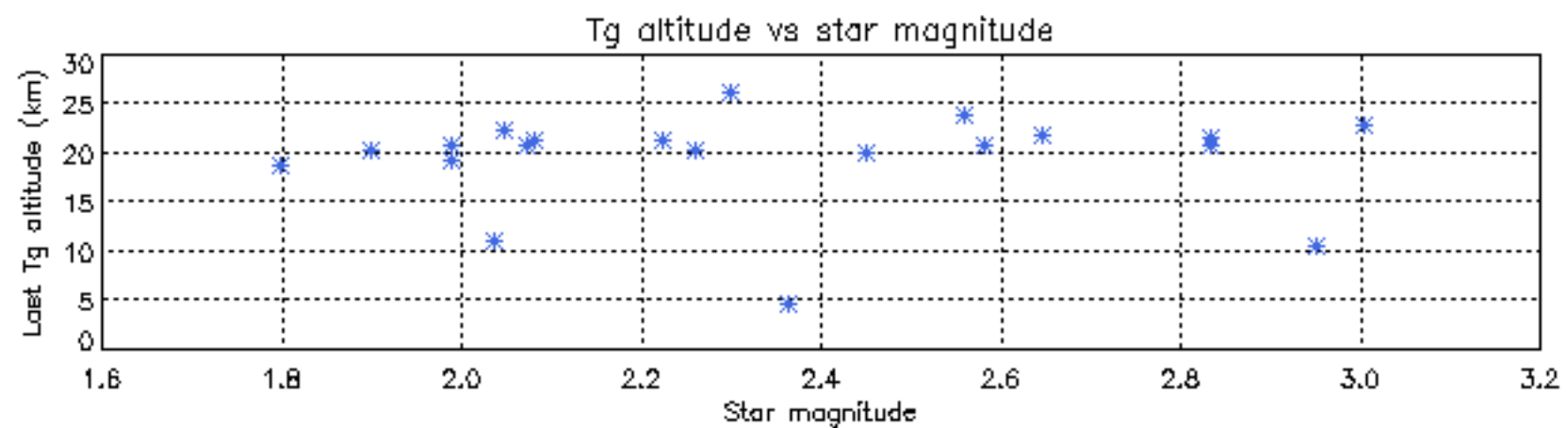
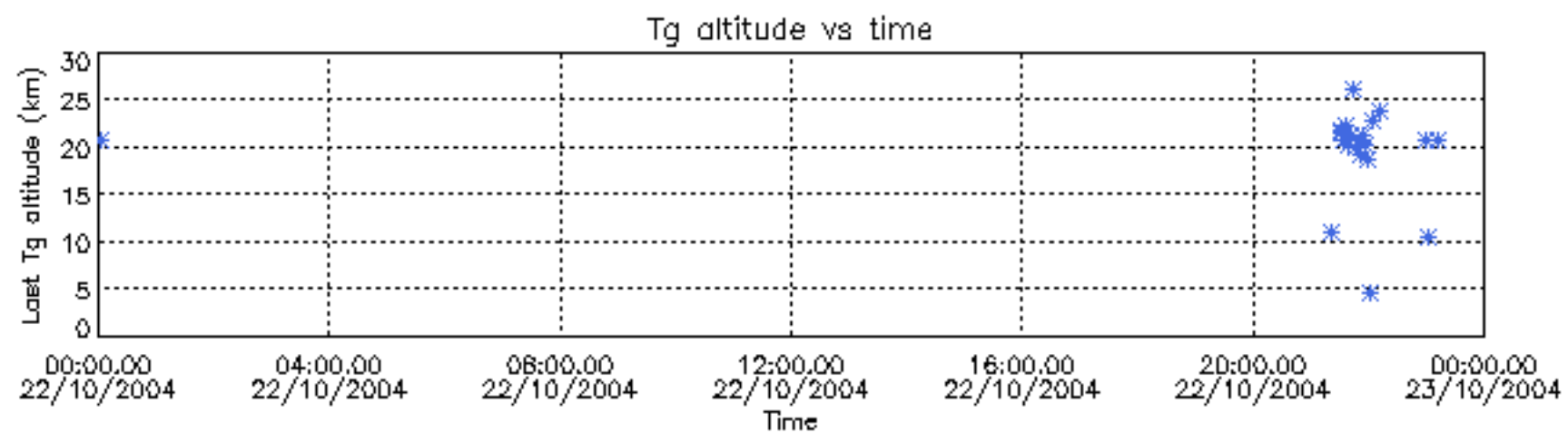
Percentage of saturation errors per profile



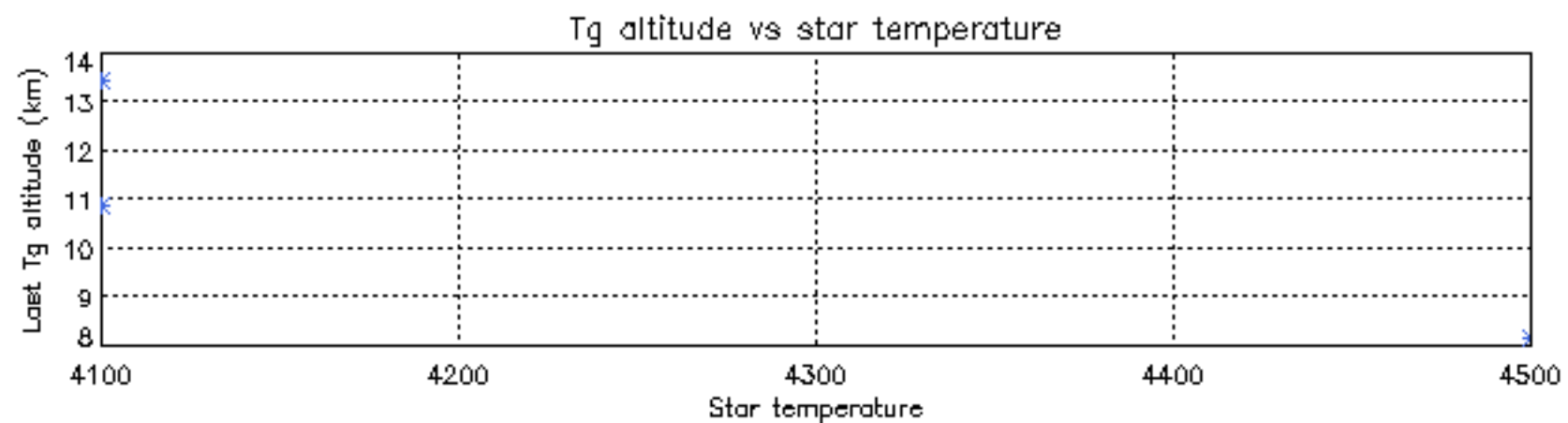
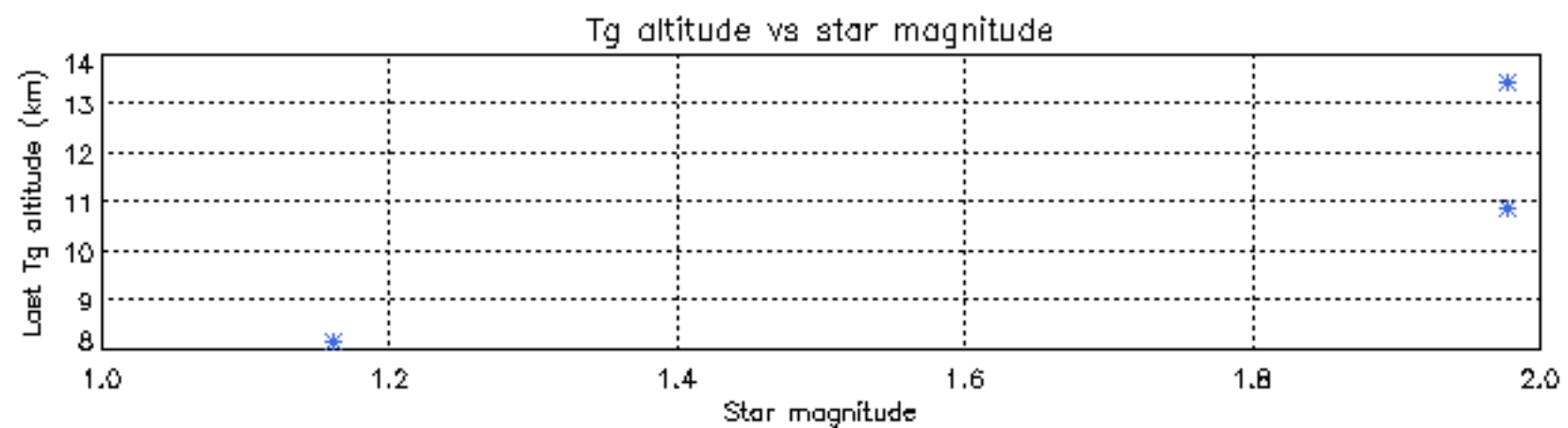
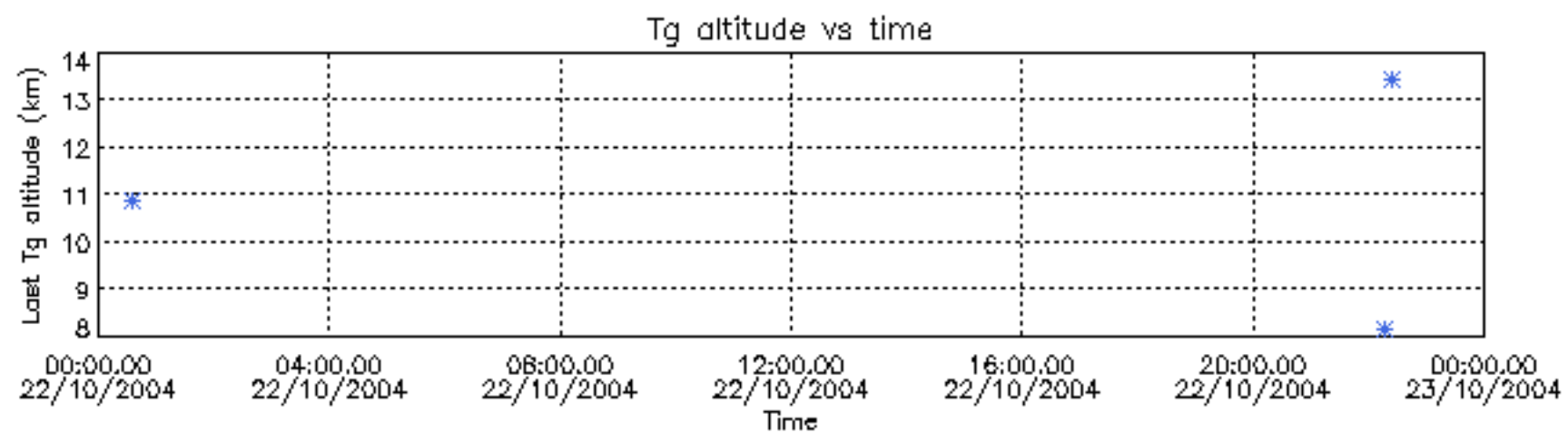
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 5; -37.9; 01-OCT-2004 01:46:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13526
 6; 171.9; 01-OCT-2004 01:49:35; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13527
 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527
 11; 917.2; 01-OCT-2004 02:02:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13527
 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527
 13; 1420.2; 01-OCT-2004 02:10:24; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;13527
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 15; 1944.2; 01-OCT-2004 02:19:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13527
 16; 2166.5; 01-OCT-2004 02:22:50; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13527
 17; 2383.4; 01-OCT-2004 02:26:27; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13527
 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527
 19; 2655.0; 01-OCT-2004 02:30:59; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;13527
 20; 2947.1; 01-OCT-2004 02:35:51; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;13527
 21; 3027.7; 01-OCT-2004 02:37:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;13527
 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527
 23; 3423.8; 01-OCT-2004 02:43:47; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13527

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 7; -1234.3; 01-OCT-2004 03:06:45; Dark ; 107.5; 170; 27Eps Gem ; 3.00; 9700;occ; 215; 0;13527
 8; -867.5; 01-OCT-2004 03:12:52; Dark ; 86.0; 8; 10Alp CMi ; 0.40; 6500;occ; 172; 0;13527
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 13; 172.8; 01-OCT-2004 03:30:12; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13528
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 15; 603.4; 01-OCT-2004 03:37:23; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13528
 16; 732.7; 01-OCT-2004 03:39:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13528
 17; 820.0; 01-OCT-2004 03:41:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13528
 18; 918.0; 01-OCT-2004 03:42:37; Dark ; 53.5; 157; The1Eri ; 2.91; 9300;occ; 107; 0;13528
 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528
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 26; 2653.9; 01-OCT-2004 04:11:33; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13528
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 5; -1523.7; 01-OCT-2004 04:42:32; Bright; 59.0; 24; 66Alp Gem ; 1.58; 10200;occ; 118; 0;13528
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 9; -293.5; 01-OCT-2004 05:03:02; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13528
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15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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22; 2166.4; 01-OCT-2004 05:44:02; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13529
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24; 2519.0; 01-OCT-2004 05:49:55; Bright; 66.0; 105; 6Bet Ari ; 2.64; 8900;occ; 132; 0;13529
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 4; 1422.0; 01-OCT-2004 20:37:01; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13538
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 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
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 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
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13; 1142.3; 01-OCT-2004 22:12:57; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;13539
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17; 2167.0; 01-OCT-2004 22:30:02; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13539
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3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
5;	5.9;	05-OCT-2004	01:20:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13584
6;	216.6;	05-OCT-2004	01:24:29;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	13584
7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
9;	752.5;	05-OCT-2004	01:33:25;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13584
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12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
15;	1754.2;	05-OCT-2004	01:50:07;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13584	
16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
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6;	-1166.7;	05-OCT-2004	07:43:50;	Dark	;	133.5;	170;	27Eps Gem	;	3.00;	9700;occ;	267;	0;	13587
7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
13;	404.1;	05-OCT-2004	08:10:01;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13588
14;	609.9;	05-OCT-2004	08:13:26;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13588
15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
18;	1157.8;	05-OCT-2004	08:22:34;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13588
19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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2;	-4288.3;	05-OCT-2004	08:32:24;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13588	
3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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11;	-2468.3;	05-OCT-2004	09:02:44;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	13588	
12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
13;	-2034.8;	05-OCT-2004	09:09:58;	Bright;	36.5;	82;	48Bet UMA	;	2.37;	10600;occ;	73;	0;	13588	
14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
15;	-1730.5;	05-OCT-2004	09:15:02;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13588	
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19;	-392.0;	05-OCT-2004	09:37:20;	Dark	;	53.0;	132;	15Rho Pup	;	2.80;	6900;occ;	106;	0;	13588
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21;	-174.0;	05-OCT-2004	09:40:58;	Dark	;	44.5;	70;	Zet Pup	;	2.25;	39000;occ;	89;	0;	13588
22;	9.9;	05-OCT-2004	09:44:02;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13589
23;	220.8;	05-OCT-2004	09:47:33;	Dark	;	59.0;	2;	Alp Car	;	-0.74;	7000;occ;	118;	0;	13589
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27; 843.0; 05-OCT-2004 09:57:55; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;13589
28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
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19;	-1205.8;	15-OCT-2004	19:13:02;	Bright	;	57.0;	22;	32Alp Leo	;	1.36;	15200;occ;	114;	0;	13737
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6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
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4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
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