

GOMOS Daily Report 23-JAN-2005

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	26JAN2005 05:44:52

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (23JAN2005 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (24JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	46
Nb of prods with errors	1

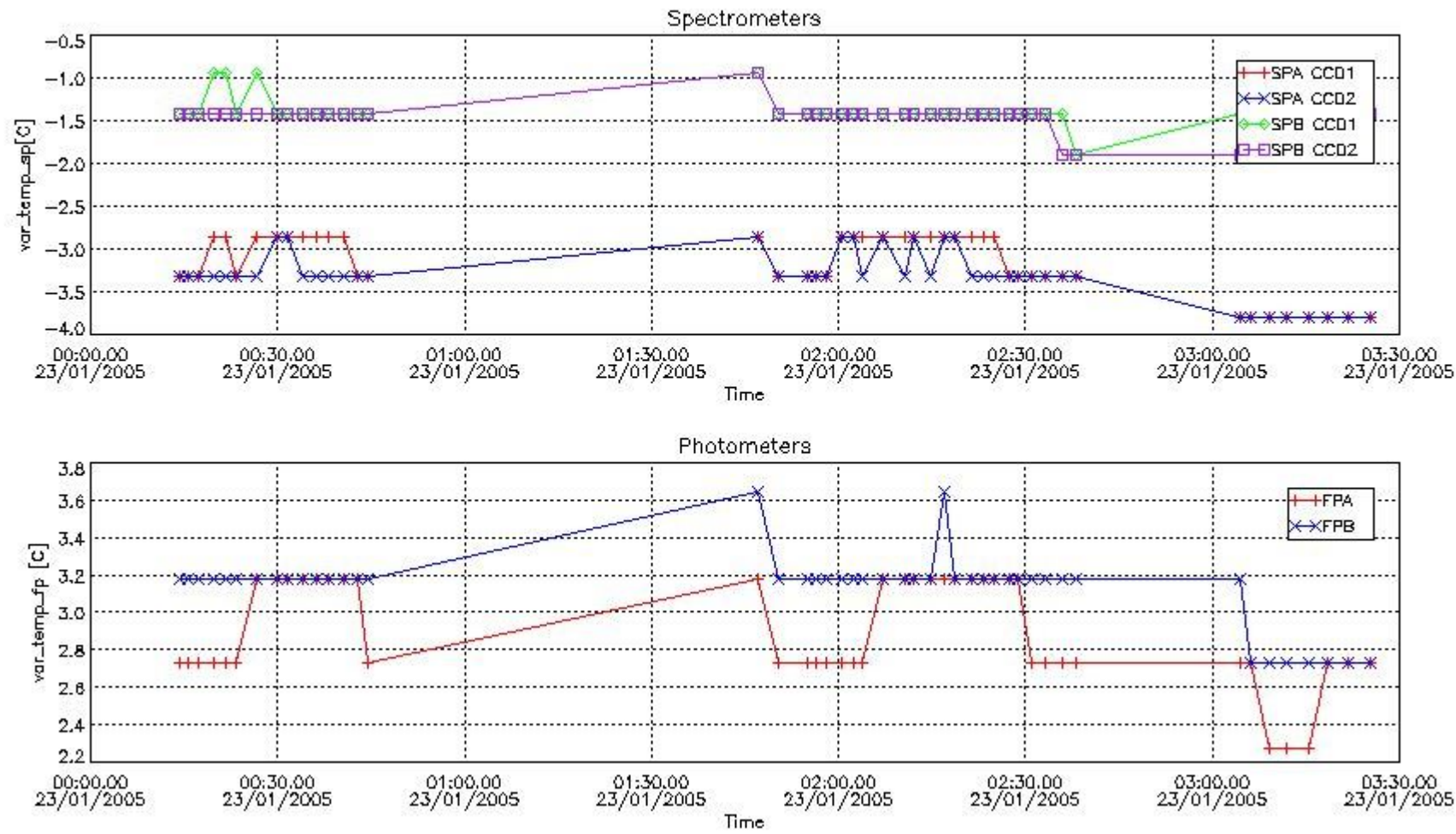
2. Summary of products arrived in PCF (Product Control Facility)

2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050123_001419_000000532034_00073_15157_0000.N1	23-JAN-2005 00:14:19	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	15157	No
2	GOM_TRA_1PNPDE20050123_001546_000000422034_00073_15157_0001.N1	23-JAN-2005 00:15:46	Twilight	41.500	25	35Lam Sco	1.6200	28000.	83	15157	No
3	GOM_TRA_1PNPDE20050123_001720_000000442034_00073_15157_0002.N1	23-JAN-2005 00:17:20	Twilight	43.500	40	The Sco	1.8590	7100.0	87	15157	No
4	GOM_TRA_1PNPDE20050123_001950_000000442034_00073_15157_0003.N1	23-JAN-2005 00:19:50	Dark	43.500	131	Gam Lup	2.8000	26000.	87	15157	No
5	GOM_TRA_1PNPDE20050123_002148_000000472034_00073_15157_0004.N1	23-JAN-2005 00:21:48	Dark	46.500	109	Bet Lup	2.6770	26000.	93	15157	No
6	GOM_TRA_1PNPDE20050123_002319_000000452034_00074_15158_0005.N1	23-JAN-2005 00:23:19	Dark	45.000	78	Alp Lup	2.3040	28000.	90	15158	No
7	GOM_TRA_1PNPDE20050123_002633_000000442034_00074_15158_0006.N1	23-JAN-2005 00:26:33	Dark	44.000	10	Bet Cen	0.61000	28000.	88	15158	No
8	GOM_TRA_1PNPDE20050123_003000_000000532034_00074_15158_0007.N1	23-JAN-2005 00:30:00	Dark	52.500	12	Alp1Cru	0.77500	30000.	105	15158	No
9	GOM_TRA_1PNPDE20050123_003127_000000492034_00074_15158_0008.N1	23-JAN-2005 00:31:27	Dark	48.500	99	Del Cen	2.5750	26000.	97	15158	No
10	GOM_TRA_1PNPDE20050123_003409_000000412034_00074_15158_0009.N1	23-JAN-2005 00:34:09	Dark	41.000	29	Bet Car	1.6720	10200.	82	15158	No
11	GOM_TRA_1PNPDE20050123_003617_000000422034_00074_15158_0010.N1	23-JAN-2005 00:36:17	Dark	41.500	71	lot Car	2.2460	7700.0	83	15158	No
12	GOM_TRA_1PNPDE20050123_003806_000000442034_00074_15158_0011.N1	23-JAN-2005 00:38:06	Dark	44.000	46	Del Vel	1.9540	10600.	88	15158	No
13	GOM_TRA_1PNPDE20050123_004040_000000522034_00074_15158_0012.N1	23-JAN-2005 00:40:40	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	15158	No
14	GOM_TRA_1PNPDE20050123_004250_000000422034_00074_15158_0013.N1	23-JAN-2005 00:42:50	Dark	42.000	70	Zet Pup	2.2460	39000.	84	15158	No
15	GOM_TRA_1PNPDE20050123_004422_000000472034_00074_15158_0014.N1	23-JAN-2005 00:44:22	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	15158	No
16	GOM_TRA_1PNPDE20050123_014707_000001272034_00074_15158_0000.N1	23-JAN-2005 01:47:07	Twilight	127.00	3	16Alp Boo	-0.050000	4250.0	254	15158	Yes
17	GOM_TRA_1PNPDE20050123_015026_000000462034_00074_15158_0001.N1	23-JAN-2005 01:50:26	Twilight	46.000	98	13Zet Oph	2.5710	30000.	92	15158	No
18	GOM_TRA_1PNPDE20050123_015456_000000552034_00074_15158_0002.N1	23-JAN-2005 01:54:56	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	15158	No
19	GOM_TRA_1PNPDE20050123_015621_000000472034_00074_15158_0003.N1	23-JAN-2005 01:56:21	Twilight	46.500	25	35Lam Sco	1.6200	28000.	93	15158	No
20	GOM_TRA_1PNPDE20050123_015755_000000412034_00074_15158_0004.N1	23-JAN-2005 01:57:55	Twilight	41.000	40	The Sco	1.8590	7100.0	82	15158	No
21	GOM_TRA_1PNPDE20050123_020027_000000422034_00074_15158_0005.N1	23-JAN-2005 02:00:27	Dark	41.500	131	Gam Lup	2.8000	26000.	83	15158	No
22	GOM_TRA_1PNPDE20050123_020224_000000472034_00074_15158_0006.N1	23-JAN-2005 02:02:24	Dark	46.500	109	Bet Lup	2.6770	26000.	93	15158	No
23	GOM_TRA_1PNPDE20050123_020356_000000492034_00075_15159_0007.N1	23-JAN-2005 02:03:56	Dark	48.500	78	Alp Lup	2.3040	28000.	97	15159	No
24	GOM_TRA_1PNPDE20050123_020709_000000452034_00075_15159_0008.N1	23-JAN-2005 02:07:09	Dark	44.500	10	Bet Cen	0.61000	28000.	89	15159	No
25	GOM_TRA_1PNPDE20050123_021036_000000432034_00075_15159_0009.N1	23-JAN-2005 02:10:36	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	15159	No
26	GOM_TRA_1PNPDE20050123_021204_000000472034_00075_15159_0010.N1	23-JAN-2005 02:12:04	Dark	47.000	99	Del Cen	2.5750	26000.	94	15159	No
27	GOM_TRA_1PNPDE20050123_021444_000000412034_00075_15159_0011.N1	23-JAN-2005 02:14:44	Dark	41.000	29	Bet Car	1.6720	10200.	82	15159	No
28	GOM_TRA_1PNPDE20050123_021653_000000422034_00075_15159_0012.N1	23-JAN-2005 02:16:53	Dark	41.500	71	lot Car	2.2460	7700.0	83	15159	No
29	GOM_TRA_1PNPDE20050123_021840_000000452034_00075_15159_0013.N1	23-JAN-2005 02:18:40	Dark	44.500	46	Del Vel	1.9540	10600.	89	15159	No
30	GOM_TRA_1PNPDE20050123_022116_000000492034_00075_15159_0014.N1	23-JAN-2005 02:21:16	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	15159	No
31	GOM_TRA_1PNPDE20050123_022325_000000492034_00075_15159_0015.N1	23-JAN-2005 02:23:25	Dark	48.500	70	Zet Pup	2.2460	39000.	97	15159	No
32	GOM_TRA_1PNPDE20050123_022455_000000512034_00075_15159_0016.N1	23-JAN-2005 02:24:55	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	15159	No
33	GOM_TRA_1PNPDE20050123_022726_000000472034_00075_15159_0017.N1	23-JAN-2005 02:27:26	Twilight	47.000	23	21Eps CMa	1.5020	26000.	94	15159	No
34	GOM_TRA_1PNPDE20050123_022847_000000442034_00075_15159_0018.N1	23-JAN-2005 02:28:47	Twilight	44.000	179	24Omi2CMa	3.0320	24000.	88	15159	No
35	GOM_TRA_1PNPDE20050123_023057_000000522034_00075_15159_0019.N1	23-JAN-2005 02:30:57	Bright	52.000	1	9Alp CMa	-1.4400	11000.	104	15159	No
36	GOM_TRA_1PNPDE20050123_023318_000000742034_00075_15159_0020.N1	23-JAN-2005 02:33:18	Bright	73.500	48	30Alp Hya	1.9770	4100.0	147	15159	No
37	GOM_TRA_1PNPDE20050123_023549_000000442034_00075_15159_0021.N1	23-JAN-2005 02:35:49	Bright	44.000	33	50Zet Ori	1.7660	30000.	88	15159	No
38	GOM_TRA_1PNPDE20050123_023810_000000492034_00075_15159_0022.N1	23-JAN-2005 02:38:10	Bright	48.500	14	58Alp Ori	0.87000	3000.0	97	15159	No
39	GOM_TRA_1PNPDE20050123_030434_000000442034_00075_15159_0000.N1	23-JAN-2005 03:04:34	Bright	44.000	60	7Bet UMi	2.0810	3950.0	88	15159	No
40	GOM_TRA_1PNPDE20050123_030602_000000552034_00075_15159_0001.N1	23-JAN-2005 03:06:02	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	15159	No
41	GOM_TRA_1PNPDE20050123_030907_000000422034_00075_15159_0002.N1	23-JAN-2005 03:09:07	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	15159	No
42	GOM_TRA_1PNPDE20050123_031159_000000392034_00075_15159_0003.N1	23-JAN-2005 03:11:59	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	15159	No
43	GOM_TRA_1PNPDE20050123_031520_000000382034_00075_15159_0004.N1	23-JAN-2005 03:15:20	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	15159	No
44	GOM_TRA_1PNPDE20050123_031821_000000452034_00075_15159_0005.N1	23-JAN-2005 03:18:21	Bright	44.500	133	40Zet Her	2.8070	6000.0	89	15159	No
45	GOM_TRA_1PNPDE20050123_032142_000000742034_00075_15159_0006.N1	23-JAN-2005 03:21:42	Bright	74.000	83		2.3780	11000.	148	15159	No
46	GOM_TRA_1PNPDE20050123_032526_000000372034_00075_15159_0007.N1	23-JAN-2005 03:25:26	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	15159	No

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



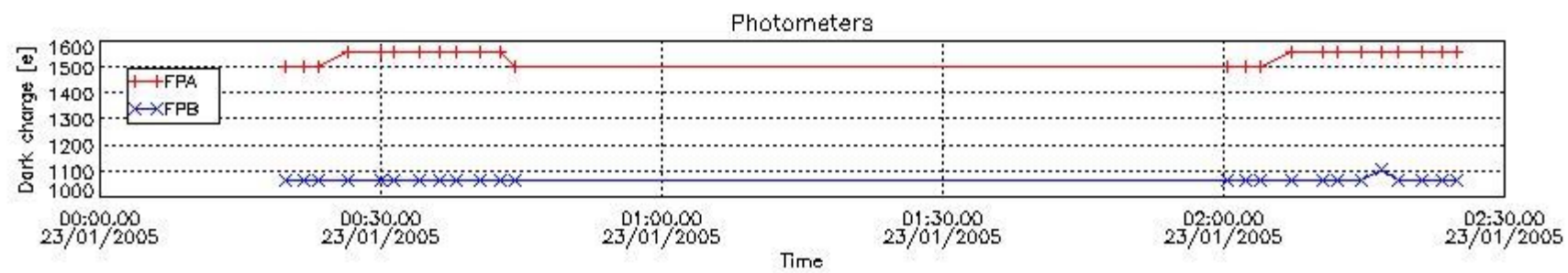
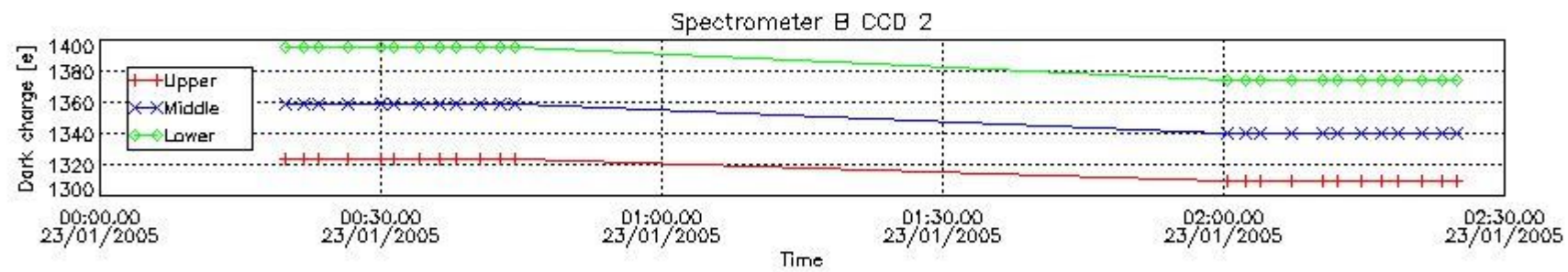
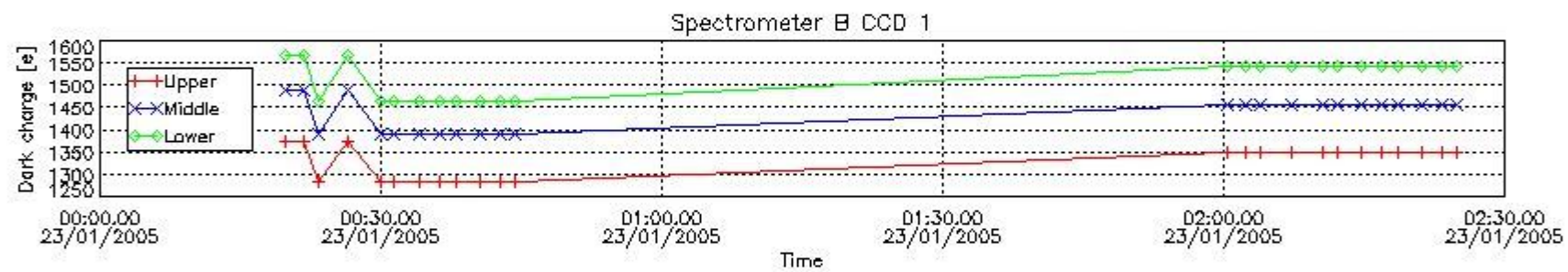
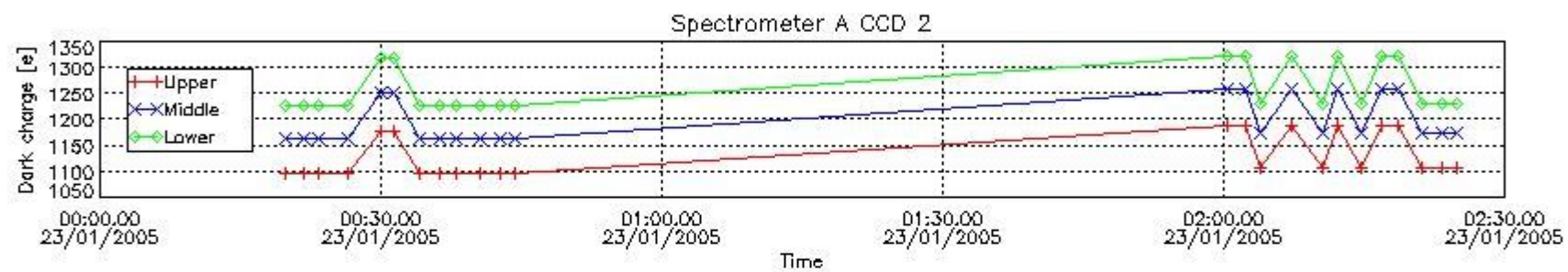
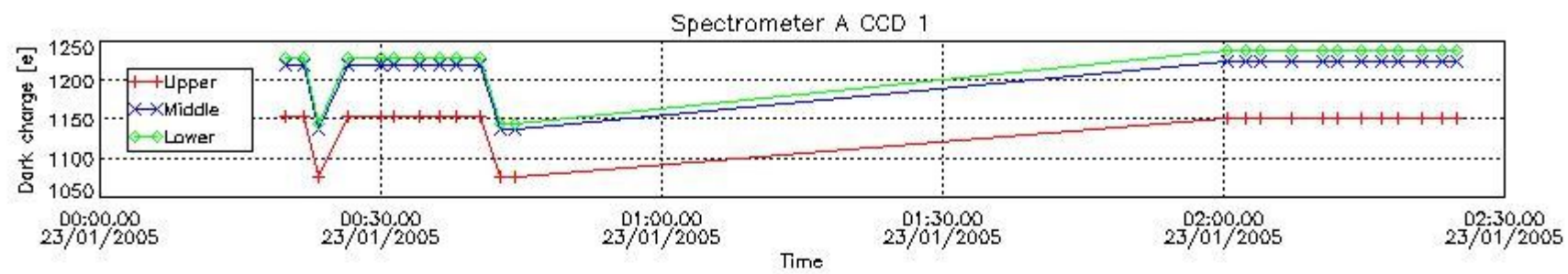
4. Overview of dark signal processing per product

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



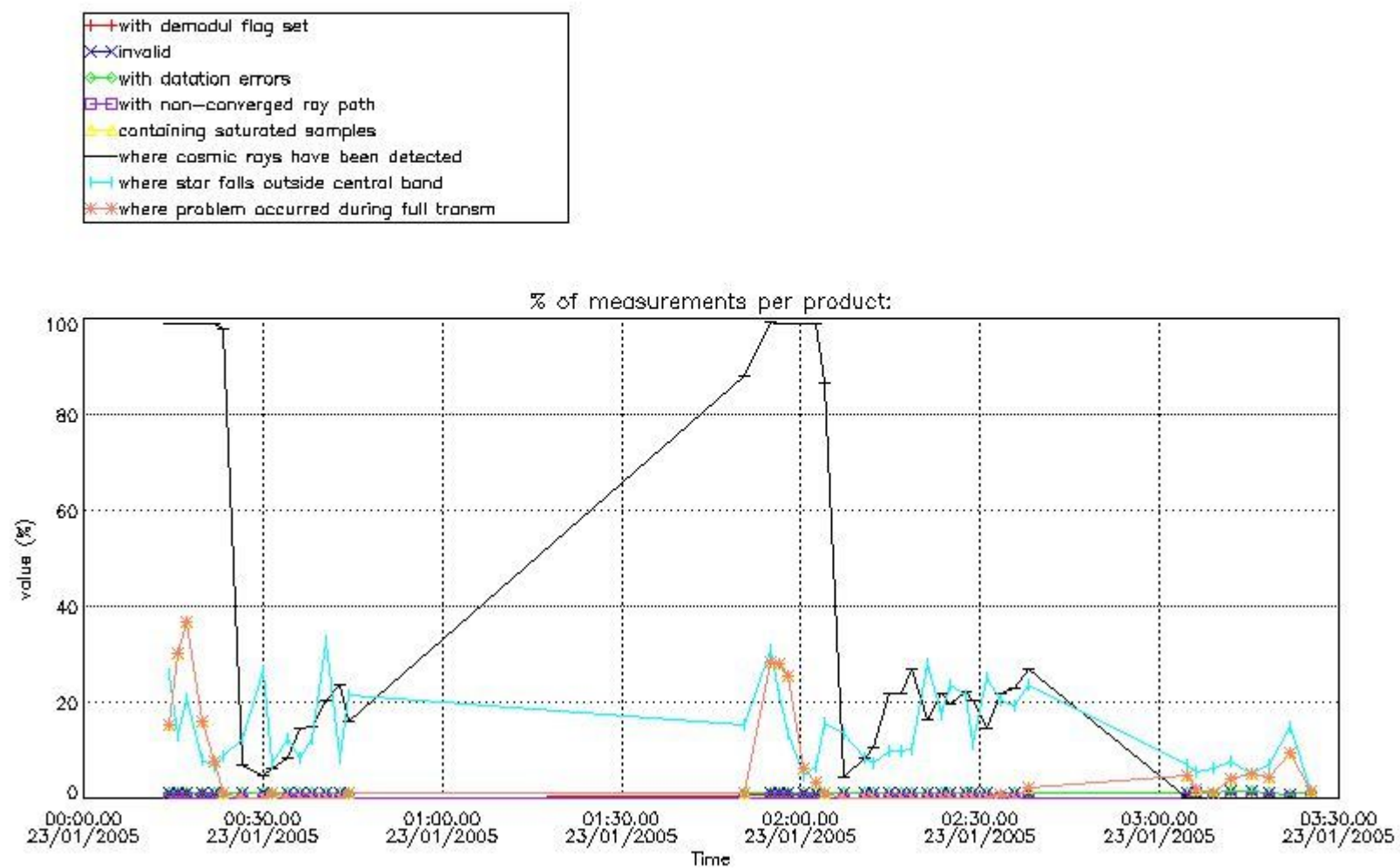
5. Demodulation flag and quality information monitoring

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.

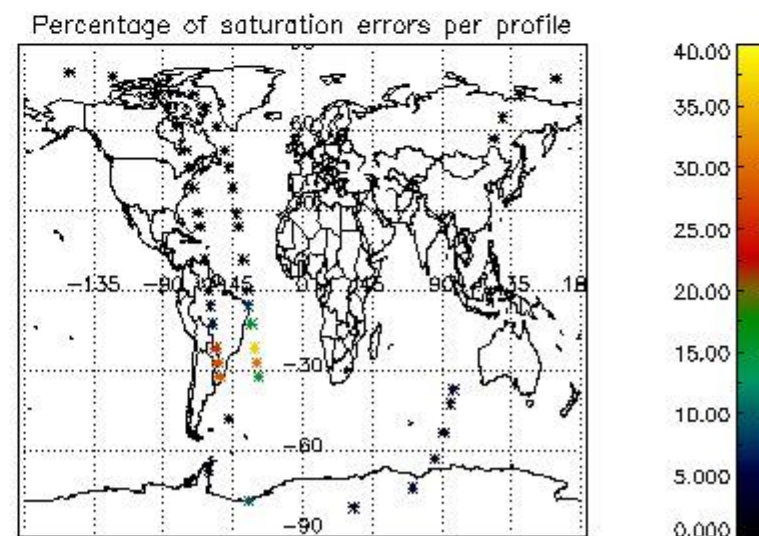
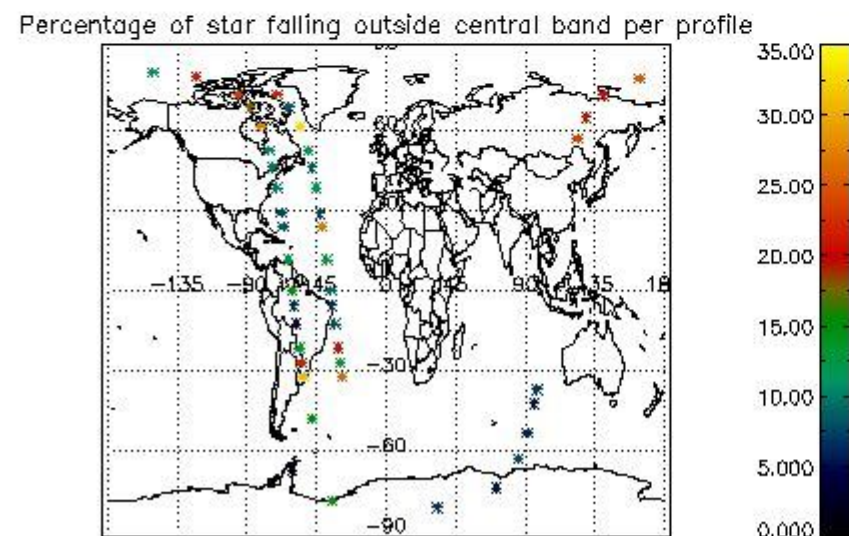
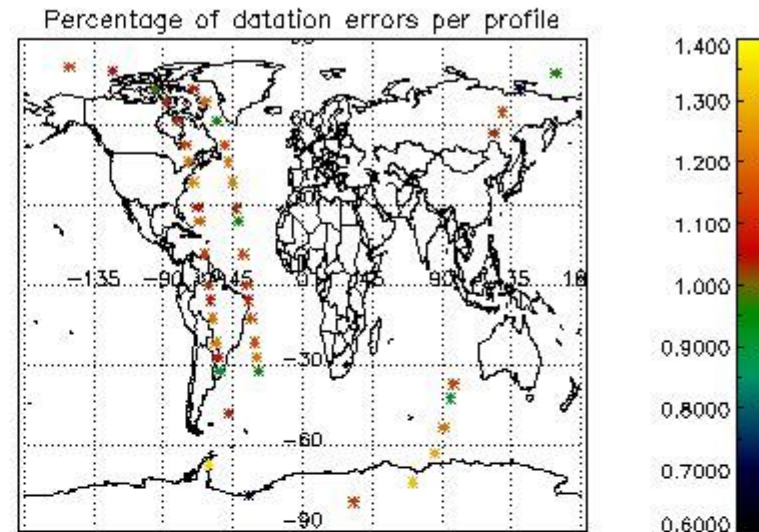
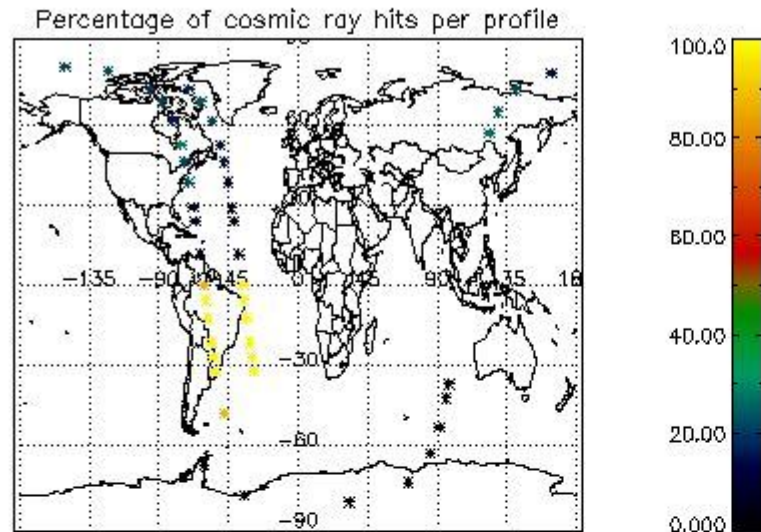
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.1111 %
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)



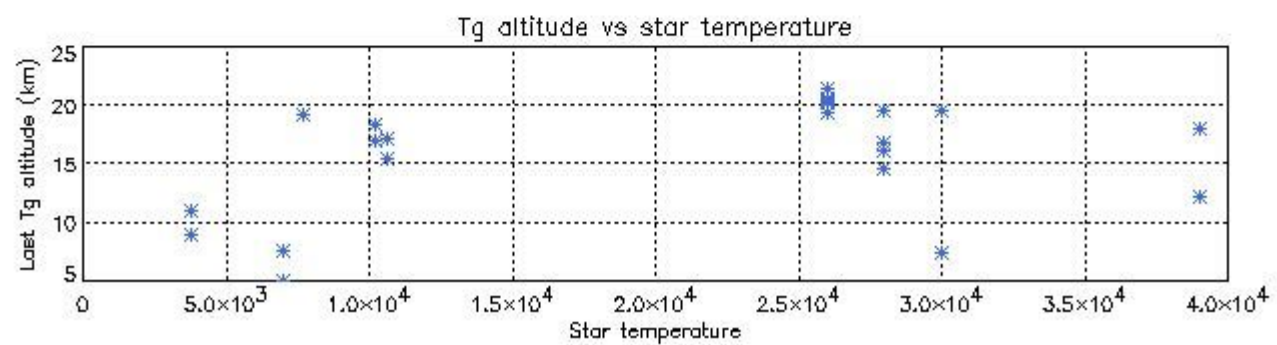
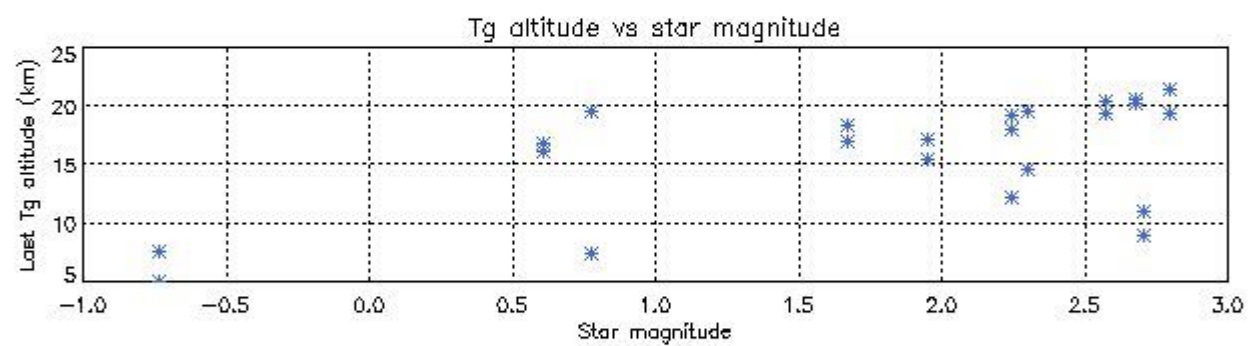
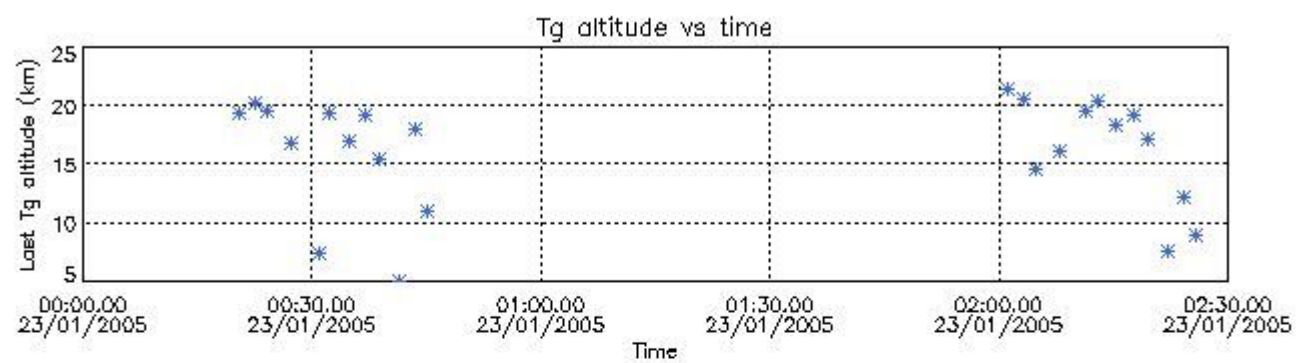
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.991	16.484	11.430
St. deviation:	4.7908	5.3275	3.4572
Maximum:	21.425	23.536	15.086
Minimum:	5.0273	7.8841	5.0675
Number of data:	24.000	12.000	9.0000

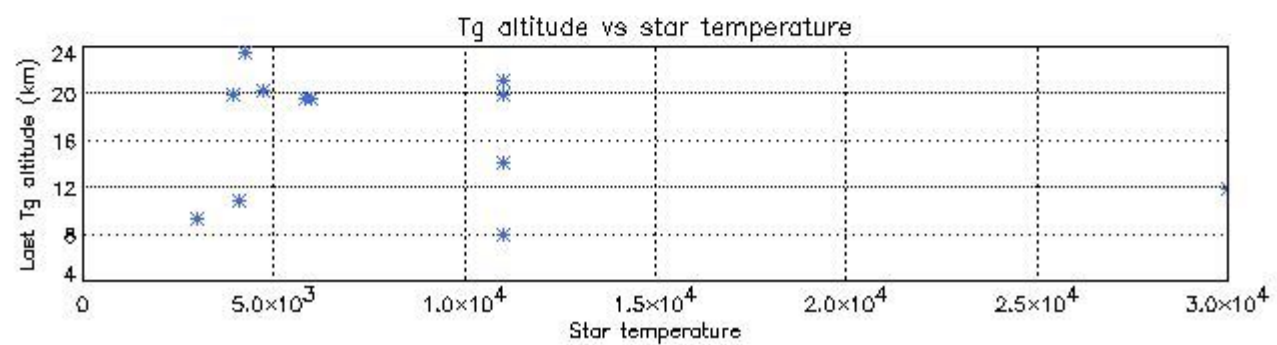
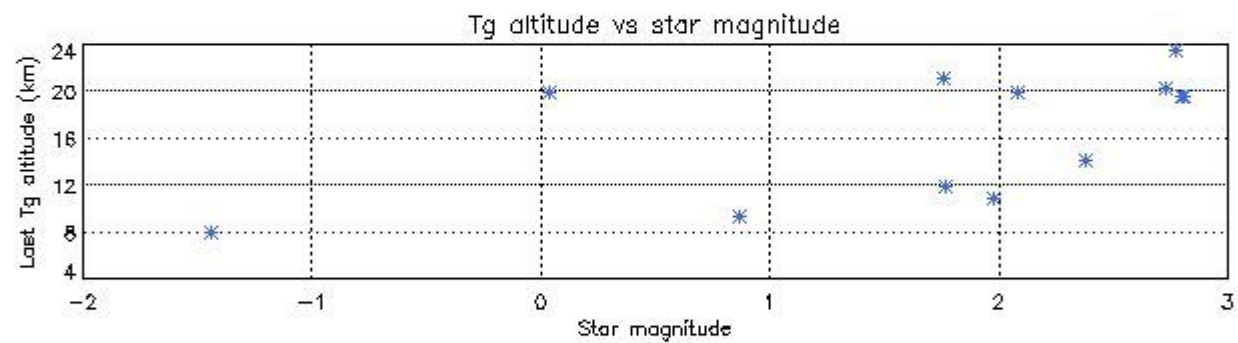
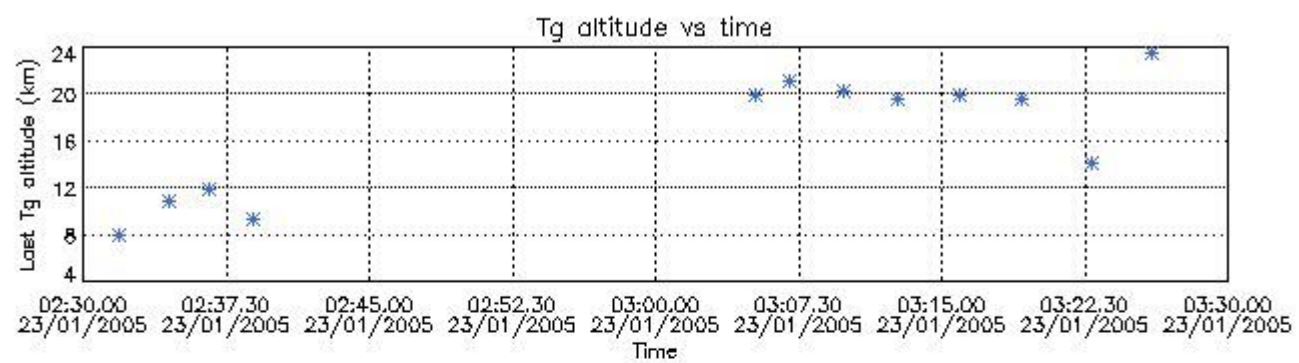
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



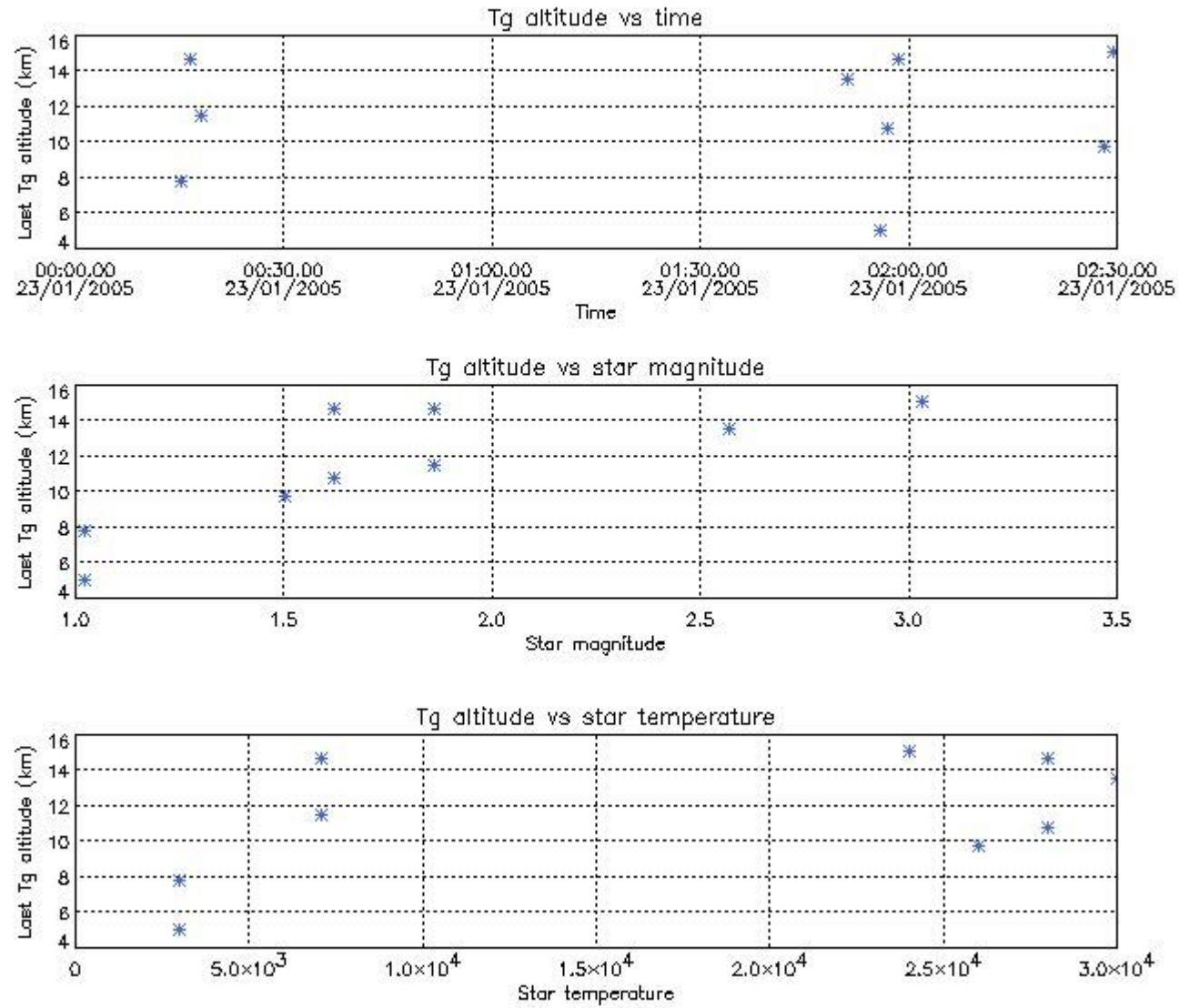
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



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

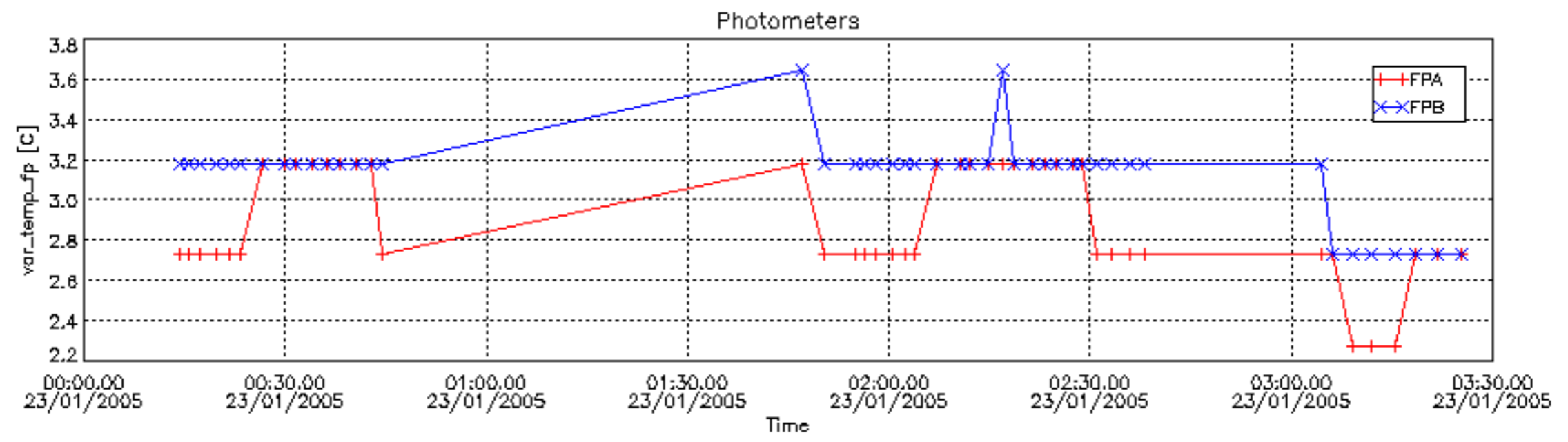
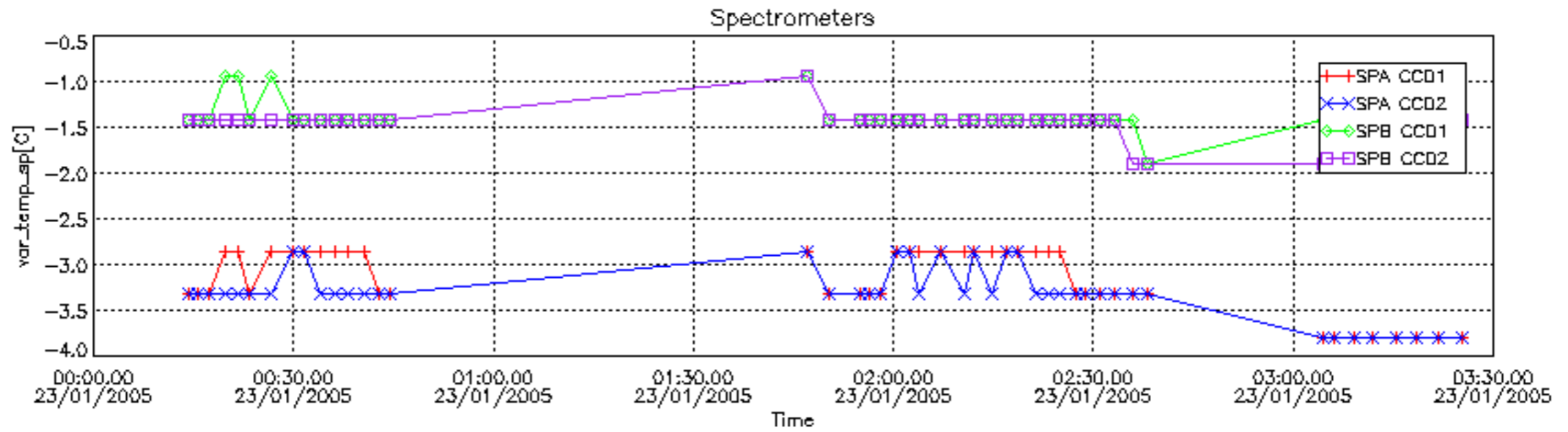
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

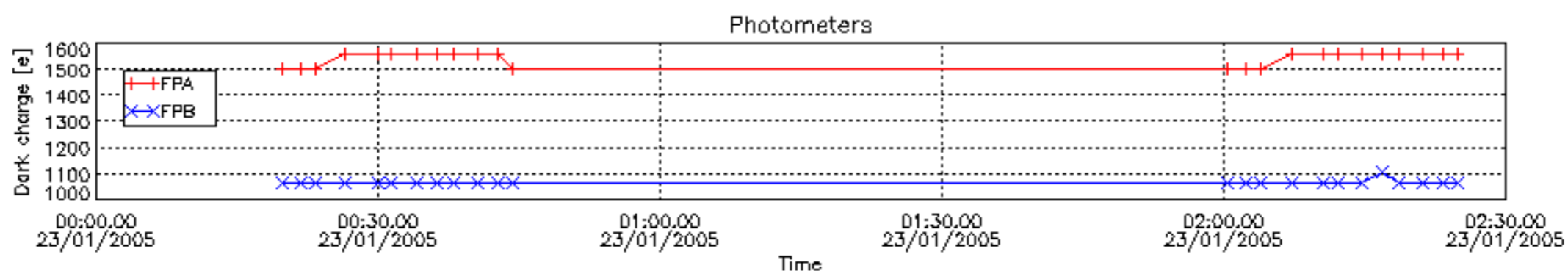
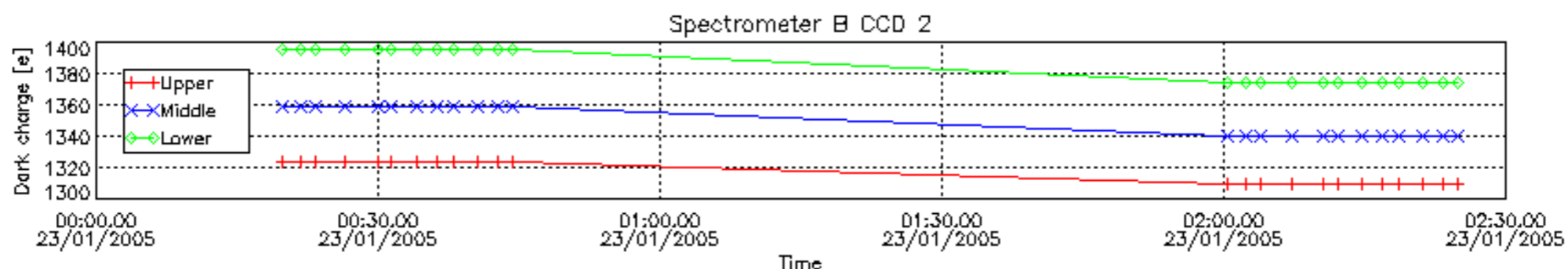
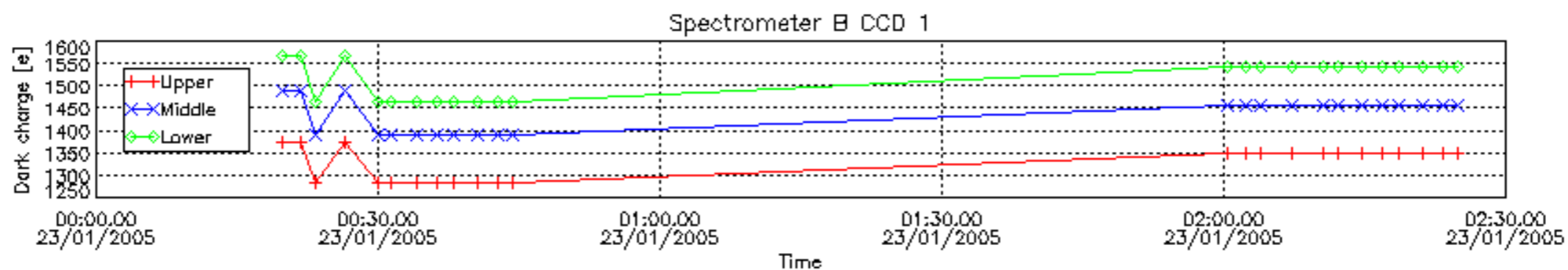
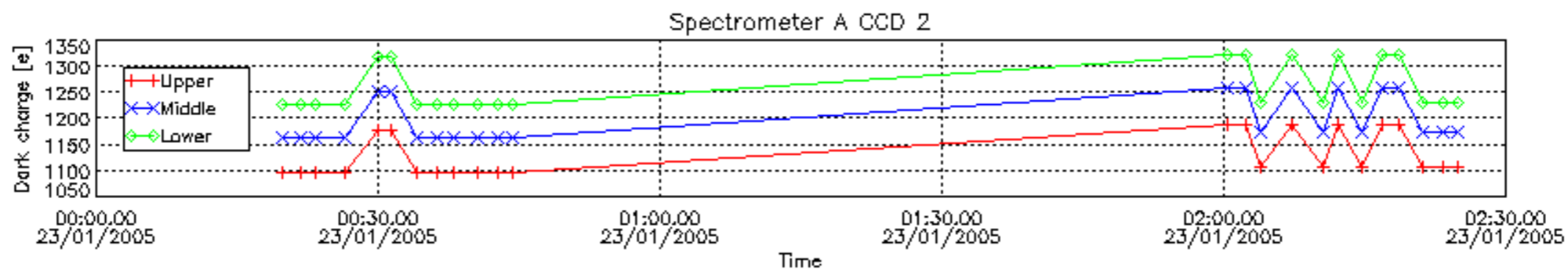
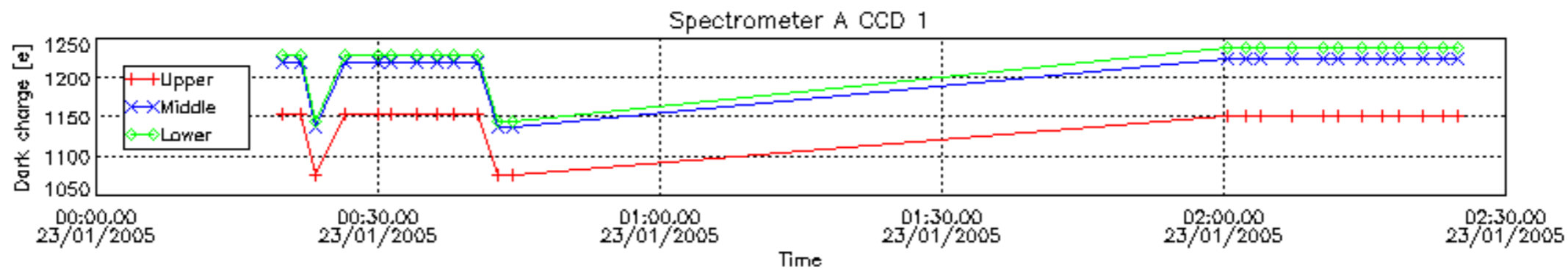
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1446.3	1461.2	1447.7
St. deviation:	5.8247	7.0005	4.6168	6.2376
Maximum:	1508.0	1491.0	1489.0	1487.0
Minimum:	1452.0	1434.0	1437.0	1423.0
Number of data:	29500.	29500.	15000.	15000.

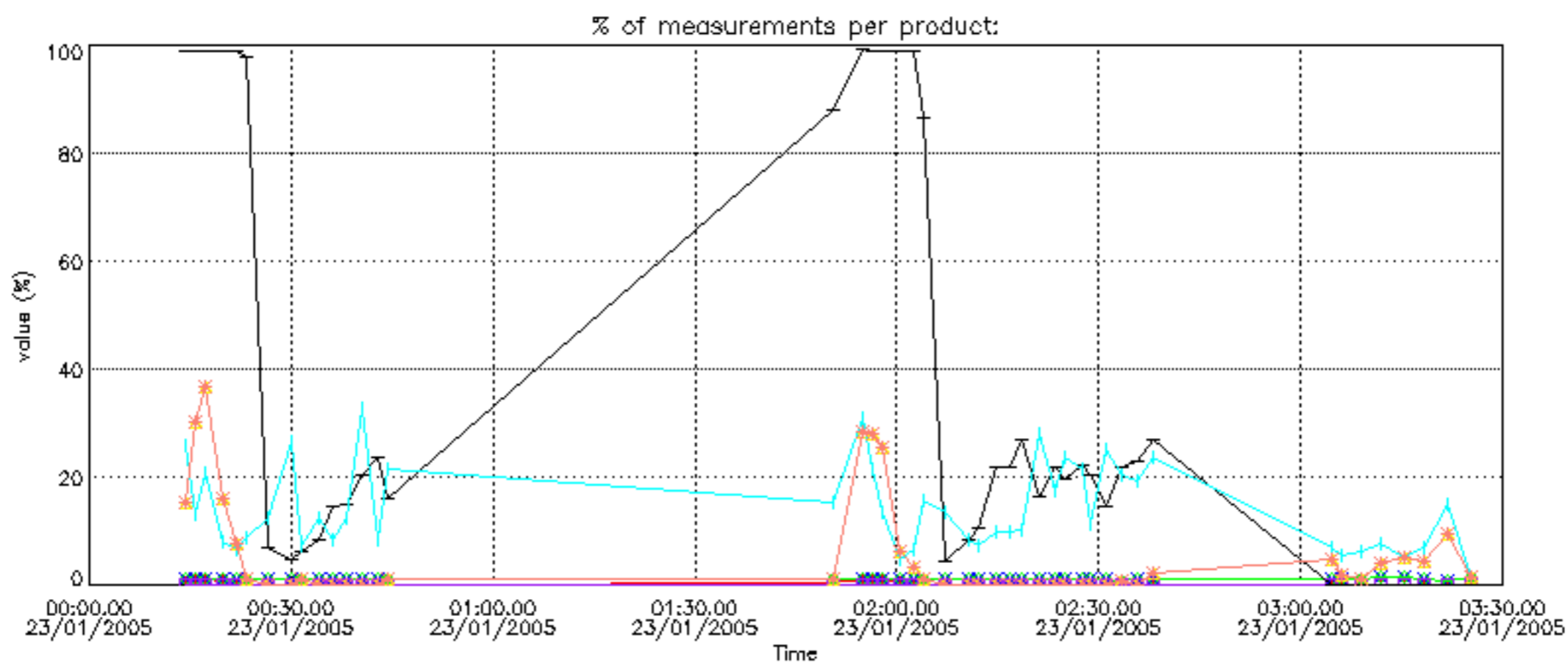
8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

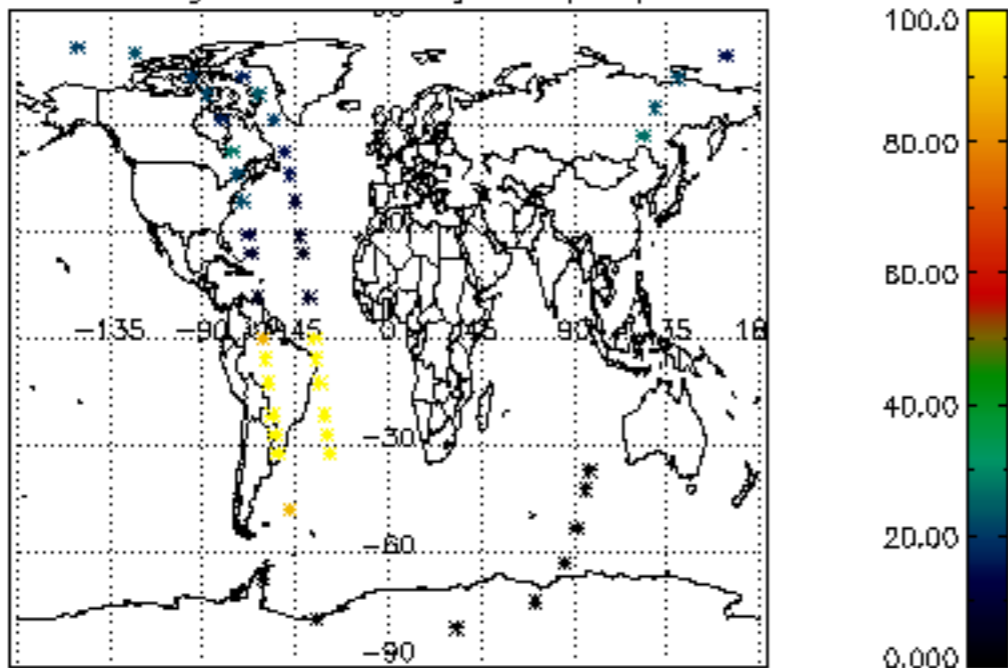
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	23-JAN-2005 00:14:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050117_132951_20050115_000000_20100101_000000	1	23-JAN-2005 00:14:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	23-JAN-2005 00:14:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JAN-2005 00:14:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	23-JAN-2005 00:14:19
ECMWF_FILE	AUX_ECF_AXNECM20050122_060413_20050122_210000_20050123_090000	1	23-JAN-2005 00:14:19
ECMWF_FILE	AUX_ECF_AXNECM20050122_192403_20050123_030000_20050123_150000	39	23-JAN-2005 03:04:34
OPTIONAL_ECMWF_FILE	NOT USED	1	23-JAN-2005 00:14:19
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050122_223349_20050122_192133_20050201_204747	1	23-JAN-2005 00:14:19



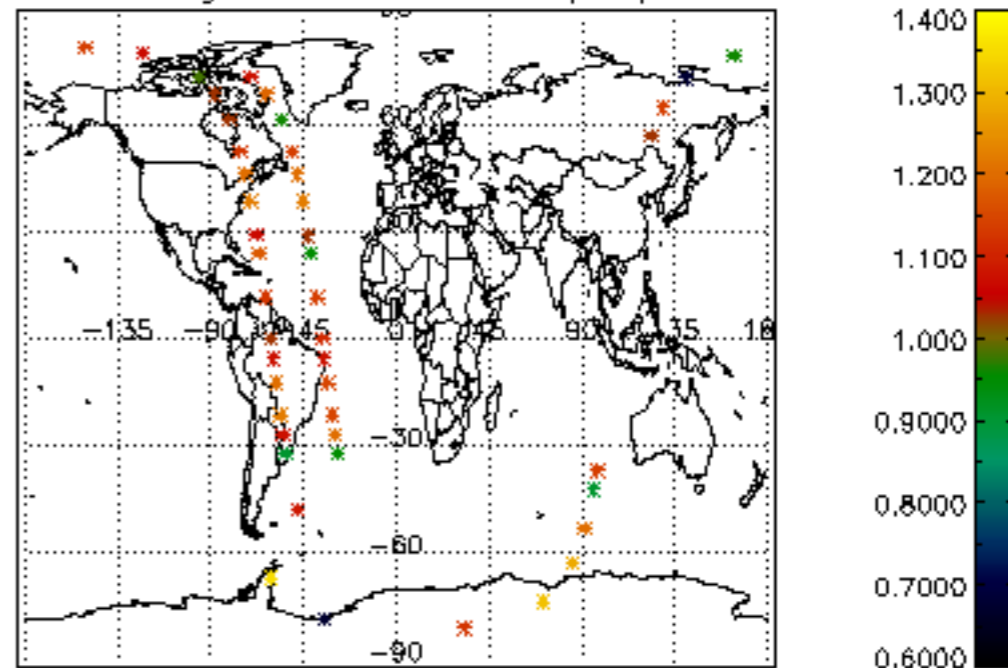




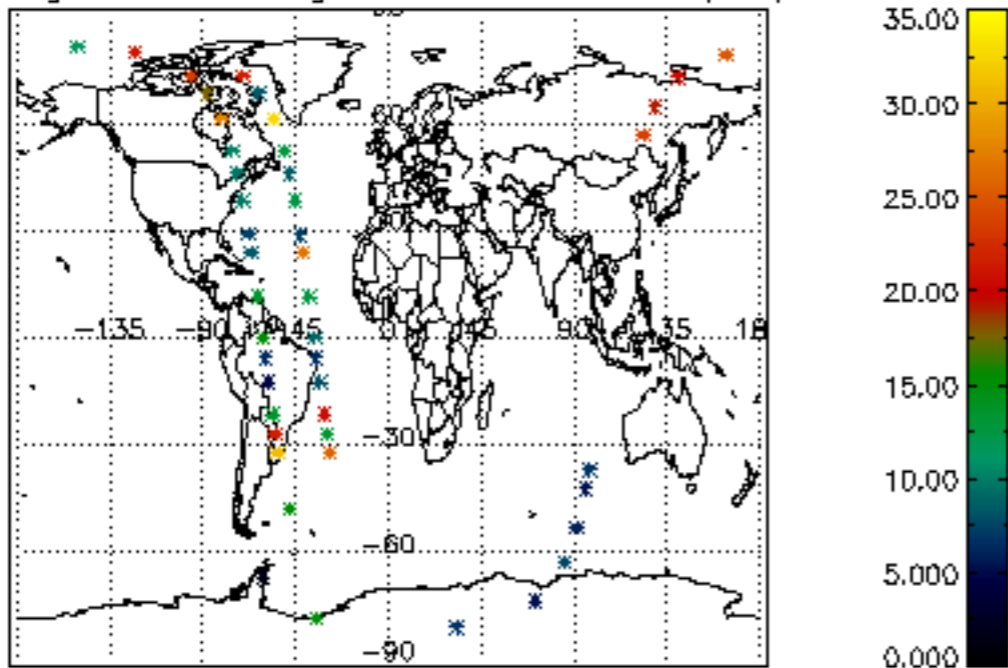
Percentage of cosmic ray hits per profile



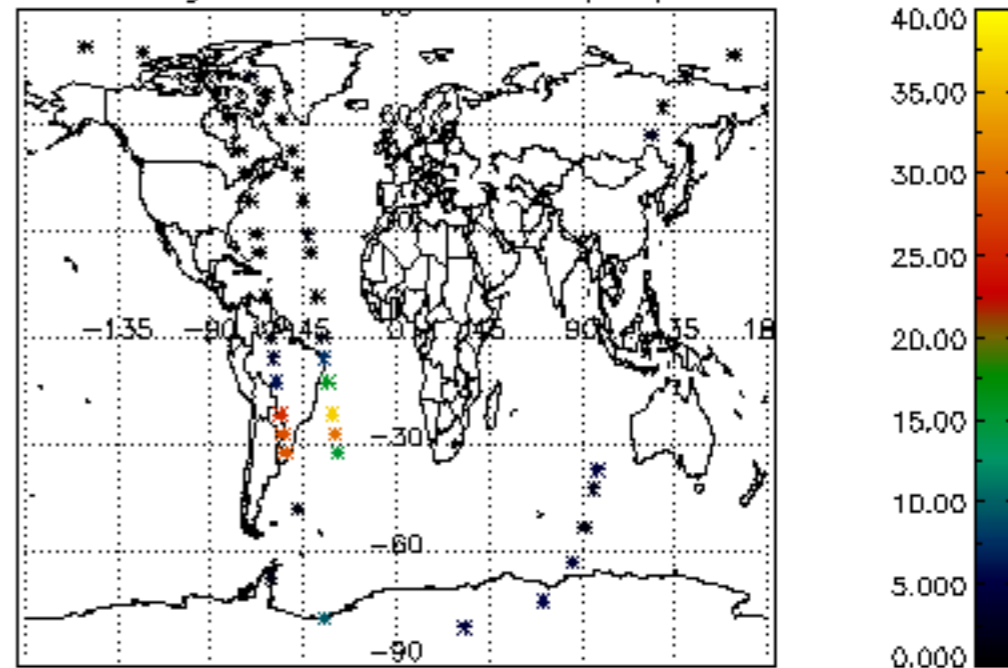
Percentage of datation errors per profile



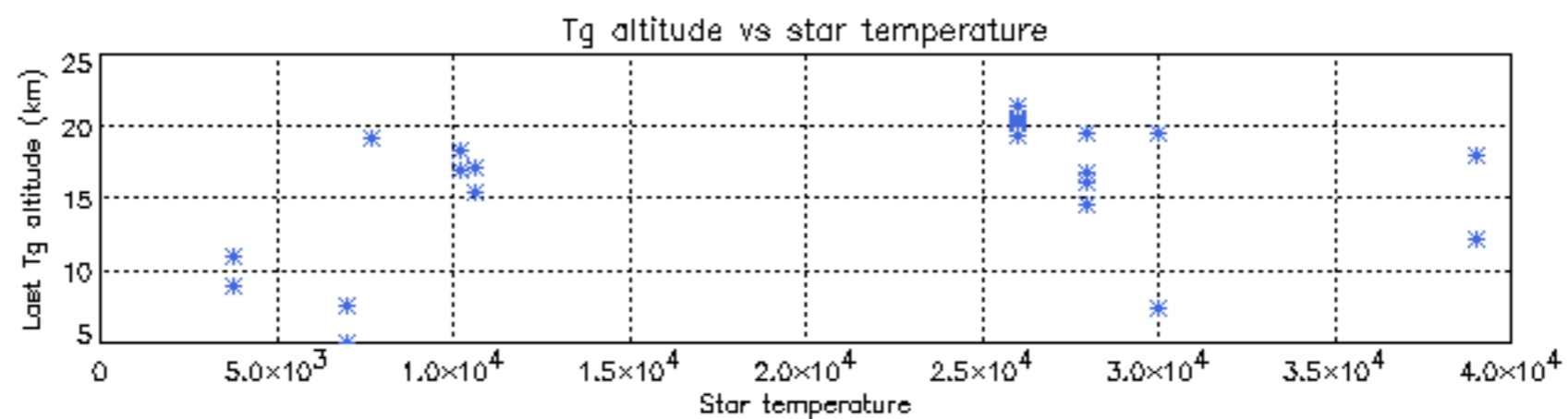
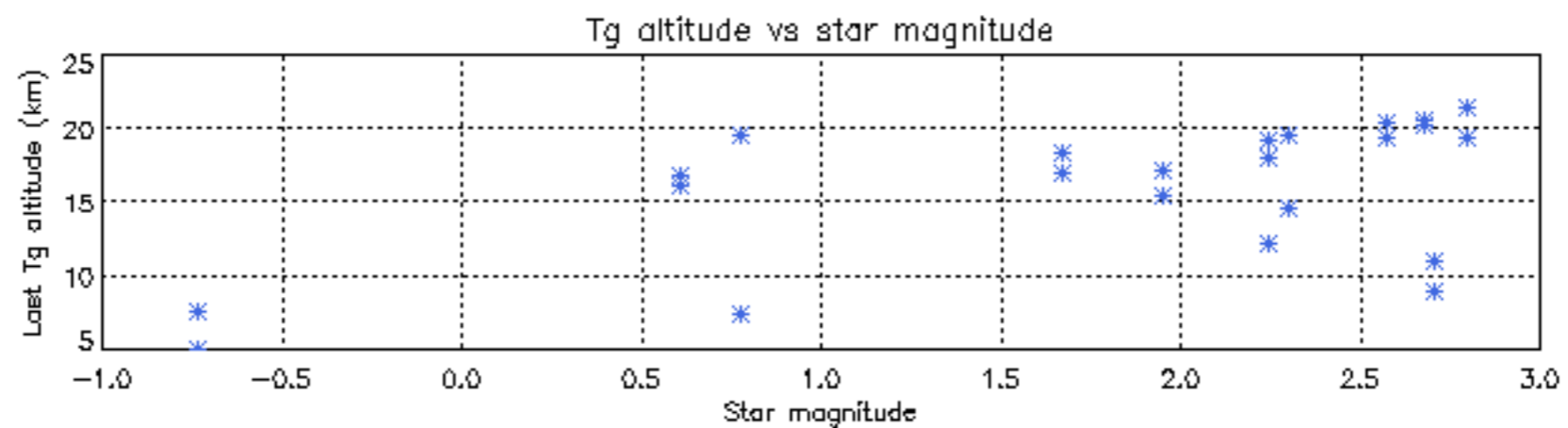
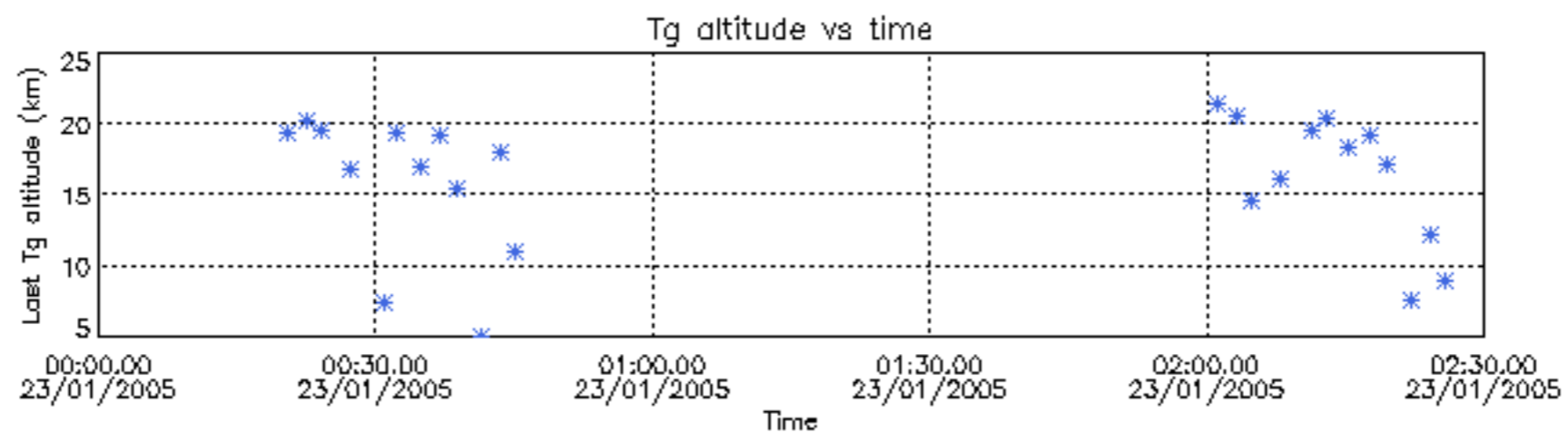
Percentage of star falling outside central band per profile



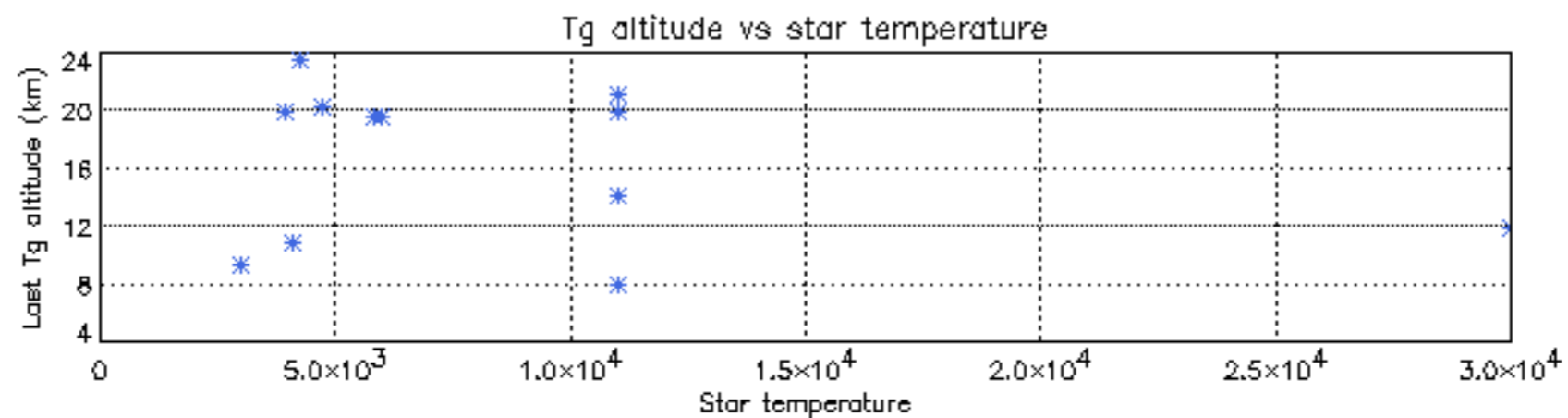
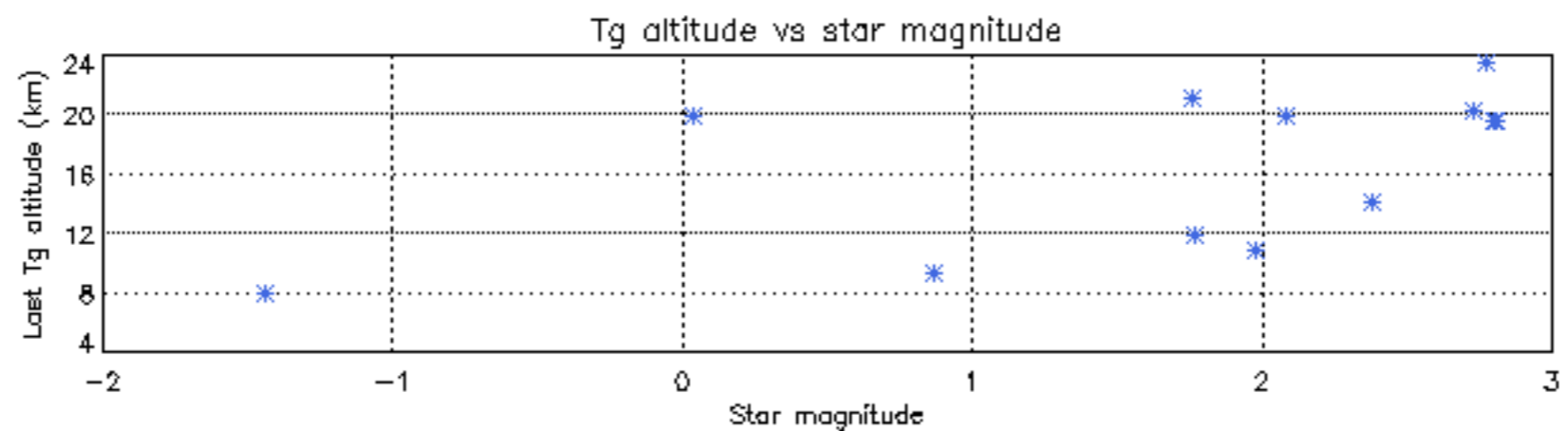
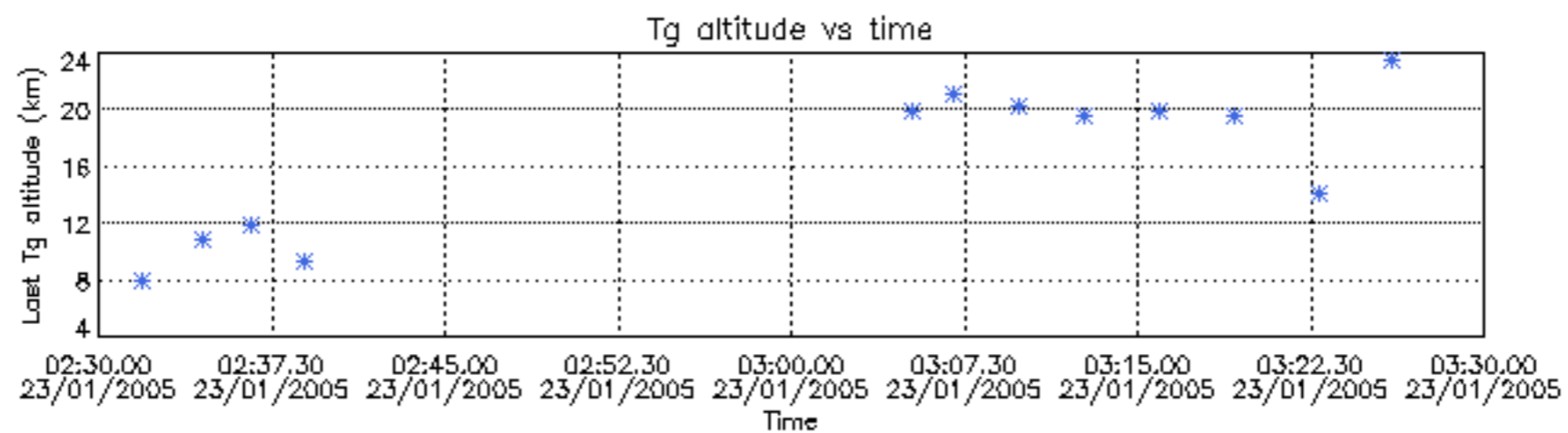
Percentage of saturation errors per profile



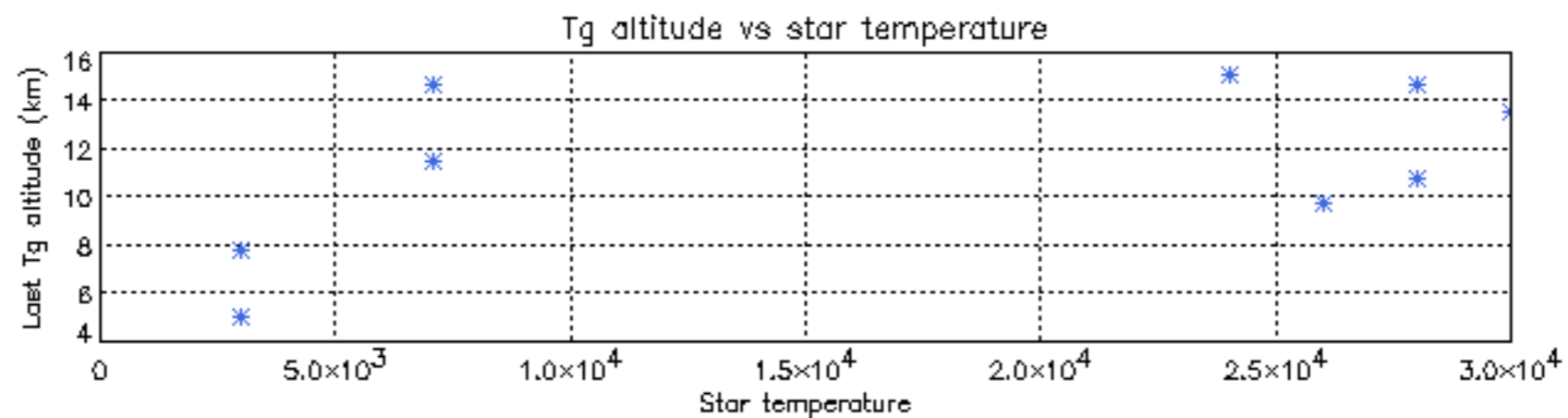
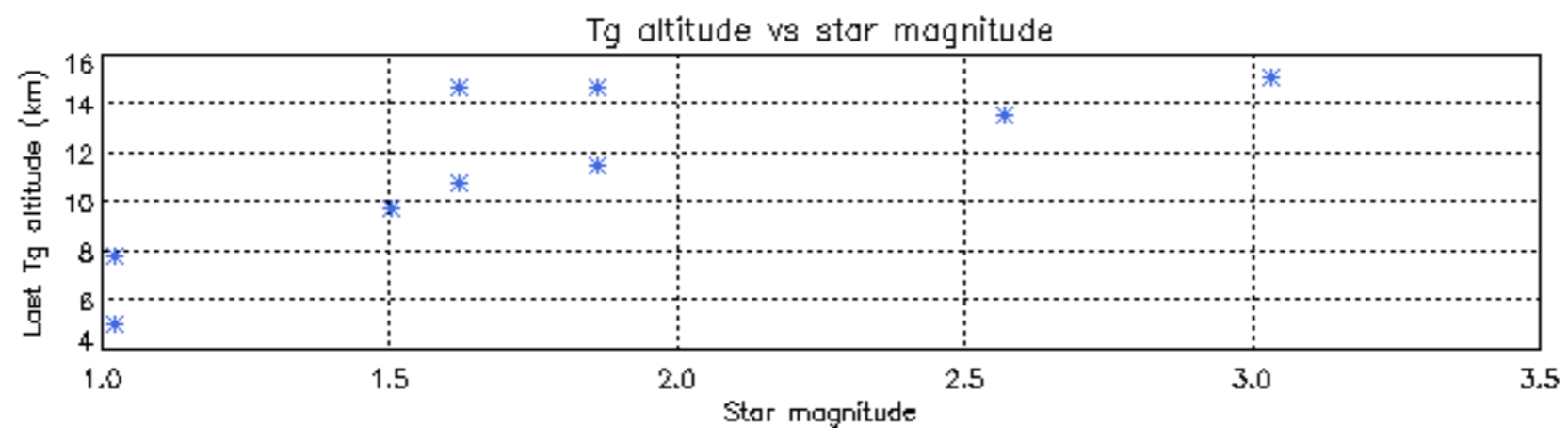
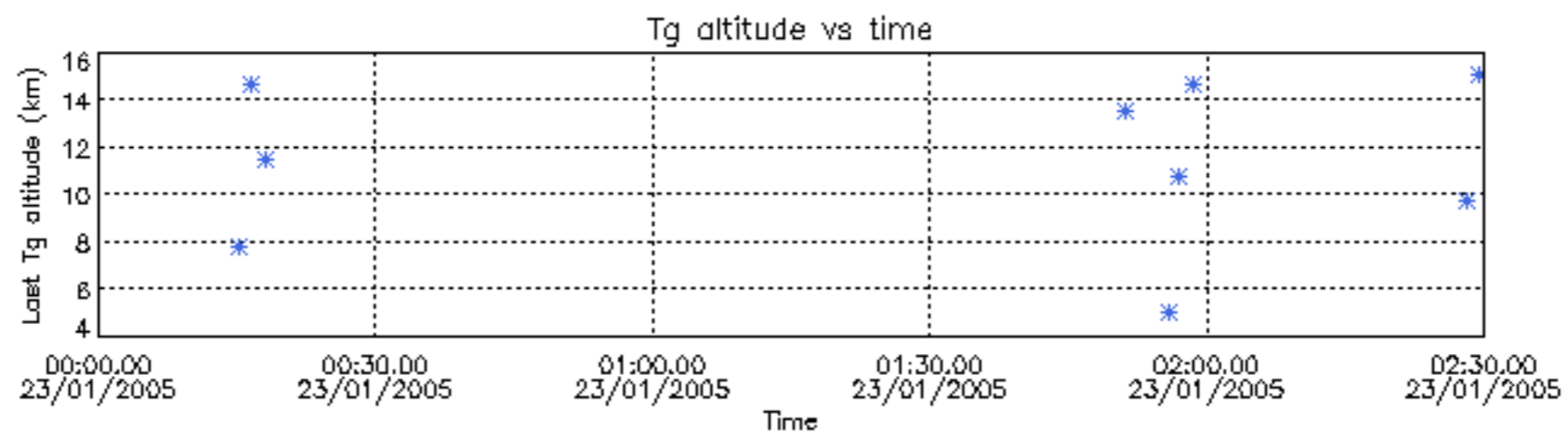
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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 4; -105.7; 01-JAN-2005 00:12:55; Dark ; 45.0; 95; Zet Cen ; 2.55; 26000;occ; 90; 0;14842
 5; -2.3; 01-JAN-2005 00:14:38; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;14842
 6; 106.9; 01-JAN-2005 00:16:27; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;14843
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 14; 1171.4; 01-JAN-2005 00:34:12; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14843
 15; 1339.3; 01-JAN-2005 00:37:00; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;14843
 16; 1432.6; 01-JAN-2005 00:38:33; Dark ; 46.5; 179; 240mi2CMA ; 3.03; 24000;occ; 93; 0;14843
 17; 1579.6; 01-JAN-2005 00:41:00; Dark ; 55.5; 1; 9Alp CMa ;-1.44; 11000;occ; 111; 0;14843
 18; 1768.2; 01-JAN-2005 00:44:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;14843
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 21; 2226.9; 01-JAN-2005 00:51:47; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;14843
 22; 2323.7; 01-JAN-2005 00:53:24; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14843
 23; 2470.5; 01-JAN-2005 00:55:51; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14843
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 25; 2690.9; 01-JAN-2005 00:59:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14843
 26; 2799.5; 01-JAN-2005 01:01:20; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;14843
 27; 2877.2; 01-JAN-2005 01:02:38; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14843
 28; 3420.6; 01-JAN-2005 01:11:41; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;14843
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 30; 3835.1; 01-JAN-2005 01:18:36; Bright; 56.5; 87; 64Gam UMA ; 2.43; 11000;occ; 113; 0;14843
 31; 3967.7; 01-JAN-2005 01:20:48; Bright; 46.5; 55; 79Zet UMA ; 2.06; 10200;occ; 93; 0;14843
 32; 4105.1; 01-JAN-2005 01:23:06; Bright; 48.5; 39; 85Eta UMA ; 1.85; 24000;occ; 97; 0;14843
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 37; 5194.0; 01-JAN-2005 01:41:15; Bright; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;14843

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 6; -1.3; 01-JAN-2005 01:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;14843
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 9; 401.2; 01-JAN-2005 02:01:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14844
 10; 547.0; 01-JAN-2005 02:04:23; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14844
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 16; 1339.6; 01-JAN-2005 02:17:36; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;14844
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 21; 2090.4; 01-JAN-2005 02:30:07; Dark ; 69.5; 8; 10Alp CMI ; 0.40; 6500;occ; 139; 0;14844
 22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844
 23; 2321.7; 01-JAN-2005 02:33:58; Bright; 51.5; 151; 13Mu Gem ; 2.89; 3000;occ; 103; 0;14844
 24; 2470.5; 01-JAN-2005 02:36:27; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;14844
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 26; 2690.9; 01-JAN-2005 02:40:07; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;14844
 27; 2800.2; 01-JAN-2005 02:41:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;14844
 28; 2877.5; 01-JAN-2005 02:43:14; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14844
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 2;-2201.7; 01-JAN-2005 02:59:11; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14844
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 23; 1173.0; 01-JAN-2005 03:55:25; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14845
 24; 1340.7; 01-JAN-2005 03:58:13; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;14845
 25; 1432.4; 01-JAN-2005 03:59:45; Dark ; 48.0; 179; 240mi2CMA ; 3.03; 24000;occ; 96; 0;14845
 26; 1580.7; 01-JAN-2005 04:02:13; Dark ; 53.5; 1; 9Alp CMA ;-1.44; 11000;occ; 107; 0;14845
 27; 1768.6; 01-JAN-2005 04:05:21; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14845
 28; 1879.9; 01-JAN-2005 04:07:12; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;14845
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 30; 2225.7; 01-JAN-2005 04:12:58; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14845
 31; 2323.8; 01-JAN-2005 04:14:36; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14845
 32; 2470.6; 01-JAN-2005 04:17:03; Bright; 41.0; 114; 3Iot Aur ; 2.69; 4600;occ; 82; 0;14845
 33; 2563.8; 01-JAN-2005 04:18:36; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;14845
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 36; 2877.9; 01-JAN-2005 04:23:50; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;14845
 37; 3420.9; 01-JAN-2005 04:32:53; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;14845
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 12; -280.0; 01-JAN-2005 05:11:48; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;14845
 13; -191.1; 01-JAN-2005 05:13:17; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;14845
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 27; 1769.0; 01-JAN-2005 05:45:57; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;14846
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38; 3589.9; 01-JAN-2005 06:16:18; Bright; 44.5; 36; 50Alp UMA ; 1.80; 6300;occ; 89; 0;14846
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5;	-179.4;	03-JAN-2005	00:49:03;	Dark	;	41.5;	78;	Alp Lup	;	2.30;	28000;occ;	83;	0;	14871
6;	-84.9;	03-JAN-2005	00:50:37;	Dark	;	44.0;	95;	Zet Cen	;	2.55;	26000;occ;	88;	0;	14871
7;	7.8;	03-JAN-2005	00:52:10;	Dark	;	44.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	88;	0;	14872
8;	129.0;	03-JAN-2005	00:54:11;	Dark	;	47.5;	64;	Gam Cen	;	2.20;	10600;occ;	95;	0;	14872
9;	243.8;	03-JAN-2005	00:56:06;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;occ;	104;	0;	14872
10;	409.5;	03-JAN-2005	00:58:51;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14872
11;	557.9;	03-JAN-2005	01:01:20;	Dark	;	40.5;	29;	Bet Car	;	1.67;	10200;occ;	81;	0;	14872
12;	643.7;	03-JAN-2005	01:02:46;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	14872
13;	738.1;	03-JAN-2005	01:04:20;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	14872
14;	867.3;	03-JAN-2005	01:06:29;	Dark	;	55.0;	65;	Lam Vel	;	2.20;	4400;occ;	110;	0;	14872
15;	985.4;	03-JAN-2005	01:08:27;	Dark	;	45.5;	2;	Alp Car	;	-0.74;	7000;occ;	91;	0;	14872
16;	1181.8;	03-JAN-2005	01:11:44;	Dark	;	51.5;	117;	Pi Pup	;	2.71;	3800;occ;	103;	0;	14872
17;	1347.0;	03-JAN-2005	01:14:29;	Dark	;	50.0;	23;	21Eps CMA	;	1.50;	26000;occ;	100;	0;	14872
18;	1436.6;	03-JAN-2005	01:15:59;	Dark	;	49.0;	179;	240mi2CMA	;	3.03;	24000;occ;	98;	0;	14872
19;	1583.9;	03-JAN-2005	01:18:26;	Dark	;	55.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	110;	0;	14872
20;	1769.9;	03-JAN-2005	01:21:32;	Dark	;	52.0;	7;	19Bet Ori	;	0.10;	14000;occ;	104;	0;	14872
21;	1881.1;	03-JAN-2005	01:23:23;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	14872
22;	2074.3;	03-JAN-2005	01:26:36;	Dark	;	69.5;	8;	10Alp CMI	;	0.40;	6500;occ;	139;	0;	14872
23;	2217.2;	03-JAN-2005	01:28:59;	Dark	;	51.0;	44;	24Gam Gem	;	1.93;	11000;occ;	102;	0;	14872
24;	2316.2;	03-JAN-2005	01:30:38;	Bright;	;	58.0;	151;	13Mu Gem	;	2.89;	3000;occ;	116;	0;	14872
25;	2469.4;	03-JAN-2005	01:33:11;	Bright;	;	41.0;	114;	3Iot Aur	;	2.69;	4600;occ;	82;	0;	14872
26;	2555.1;	03-JAN-2005	01:34:37;	Bright;	;	42.5;	107;	37The Aur	;	2.65;	11000;occ;	85;	0;	14872
27;	2687.7;	03-JAN-2005	01:36:50;	Bright;	;	43.5;	6;	13Alp Aur	;	0.08;	3400;occ;	87;	0;	14872
28;	2808.8;	03-JAN-2005	01:38:51;	Bright;	;	38.5;	35;	33Alp Per	;	1.79;	6250;occ;	77;	0;	14872
29;	2886.6;	03-JAN-2005	01:40:09;	Bright;	;	38.0;	160;	23Gam Per	;	2.93;	4700;occ;	76;	0;	14872
30;	3420.9;	03-JAN-2005	01:49:03;	Bright;	;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	14872
31;	3573.3;	03-JAN-2005	01:51:35;	Bright;	;	52.0;	36;	50Alp UMA	;	1.80;	6300;occ;	104;	0;	14872
32;	3685.8;	03-JAN-2005	01:53:28;	Bright;	;	41.0;	60;	7Bet UMi	;	2.08;	3950;occ;	82;	0;	14872
33;	3815.6;	03-JAN-2005	01:55:38;	Bright;	;	56.5;	87;	64Gam UMA	;	2.43;	11000;occ;	113;	0;	14872
34;	3958.2;	03-JAN-2005	01:58:00;	Bright;	;	47.5;	55;	79Zet UMA	;	2.06;	10200;occ;	95;	0;	14872
35;	4099.9;	03-JAN-2005	02:00:22;	Bright;	;	48.0;	39;	85Eta UMA	;	1.85;	24000;occ;	96;	0;	14872
36;	4334.6;	03-JAN-2005	02:04:17;	Bright;	;	64.0;	152;	12Alp2CVn	;	2.89;	11000;occ;	128;	0;	14872
37;	4579.9;	03-JAN-2005	02:08:22;	Bright;	;	46.0;	83;		;	2.38;	11000;occ;	92;	0;	14872
38;	4843.5;	03-JAN-2005	02:12:46;	Bright;	;	57.5;	111;	8Eta Boo	;	2.68;	6000;occ;	115;	0;	14872
39;	5033.7;	03-JAN-2005	02:15:56;	Bright;	;	34.0;	120;	1Del Oph	;	2.73;	3200;occ;	68;	0;	14872
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2;	-828.0;	03-JAN-2005	02:18:50;	Bright;	;	41.0;	104;	27Bet Lib	;	2.61;	13100;occ;	82;	0;	14872
3;	-664.4;	03-JAN-2005	02:21:33;	Dark	;	48.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	96;	0;	14872
4;	-429.6;	03-JAN-2005	02:25:28;	Dark	;	87.5;	15;	67Alp Vir	;	0.98;	28000;occ;	175;	0;	14872
5;	-178.9;	03-JAN-2005	02:29:39;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	14872
6;	-86.3;	03-JAN-2005	02:31:12;	Dark	;	45.5;	95;	Zet Cen	;	2.55;	26000;occ;	91;	0;	14872
7;	8.6;	03-JAN-2005	02:32:46;	Dark	;	42.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	84;	0;	14873
8;	129.9;	03-JAN-2005	02:34:48;	Dark	;	48.5;	64;	Gam Cen	;	2.20;	10600;occ;	97;	0;	14873
9;	242.6;	03-JAN-2005	02:36:41;	Dark	;	46.0;	12;	Alp1Cru	;	0.77;	30000;occ;	92;	0;	14873
10;	409.7;	03-JAN-2005	02:39:28;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	14873
11;	557.9;	03-JAN-2005	02:41:56;	Dark	;	46.5;	29;	Bet Car	;	1.67;	10200;occ;	93;	0;	14873
12;	646.2;	03-JAN-2005	02:43:24;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;occ;	84;	0;	14873
13;	739.0;	03-JAN-2005	02:44:57;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	14873
14;	867.6;	03-JAN-2005	02:47:05;	Dark	;	55.0;	65;	Lam Vel	;	2.20;	4400;occ;	110;	0;	14873
15;	983.3;	03-JAN-2005	02:49:01;	Dark	;	48.5;	2;	Alp Car	;	-0.74;	7000;occ;	97;	0;	14873
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17;	1345.8;	03-JAN-2005	02:55:04;	Dark	;	51.5;	23;	21Eps CMA	;	1.50;	26000;occ;	103;	0;	14873
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20;	1770.1;	03-JAN-2005	03:02:08;	Dark	;	49.5;	7;	19Bet Ori	;	0.10;	14000;occ;	99;	0;	14873
21;	1881.3;	03-JAN-2005	03:03:59;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	14873
22;	2073.8;	03-JAN-2005	03:07:12;	Dark	;	73.5;	8;	10Alp CMI	;	0.40;	6500;occ;	147;	0;	14873
23;	2217.3;	03-JAN-2005	03:09:35;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	14873
24;	2313.6;	03-JAN-2005	03:11:11;	Bright;	;	50.0;	151;	13Mu Gem	;	2.89;	3000;occ;	100;	0;	14873
25;	2469.5;	03-JAN-2005	03:13:47;	Bright;	;	42.5;	114;	3Iot Aur	;	2.69;	4600;occ;	85;	0;	14873
26;	2555.0;	03-JAN-2005	03:15:13;	Bright;	;	43.0;	107;	37The Aur	;	2.65;	11000;occ;	86;	0;	14873
27;	2687.7;	03-JAN-2005	03:17:26;	Bright;	;	43.0;	6;	13Alp Aur	;	0.08;	3400;occ;	86;	0;	14873
28;	2809.1;	03-JAN-2005	03:19:27;	Bright;	;	38.5;	35;	33Alp Per	;	1.79;	6250;occ;	77;	0;	14873
29;	2886.3;	03-JAN-2005	03:20:44;	Bright;	;	39.5;	160;	23Gam Per	;	2.93;	4700;occ;	79;	0;	14873
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28; 1583.6; 03-JAN-2005 04:39:37; Dark ; 52.0; 1; 9Alp CMA ; -1.44; 11000;occ; 104; 0;14874
29; 1772.6; 03-JAN-2005 04:42:46; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;14874
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33; 2315.7; 03-JAN-2005 04:51:50; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;14874
34; 2472.4; 03-JAN-2005 04:54:26; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14874
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36; 2687.8; 03-JAN-2005 04:58:02; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;14874
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38; 2886.8; 03-JAN-2005 05:01:21; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14874
39; 3421.5; 03-JAN-2005 05:10:15; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;14874
40; 3571.9; 03-JAN-2005 05:12:46; Bright; 48.5; 36; 50Alp UMA ; 1.80; 6300;occ; 97; 0;14874

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15; -82.9; 03-JAN-2005 05:52:27; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14874
16; 8.9; 03-JAN-2005 05:53:59; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;14875
17; 133.3; 03-JAN-2005 05:56:03; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;14875
18; 245.4; 03-JAN-2005 05:57:55; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;14875
19; 410.2; 03-JAN-2005 06:00:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14875
20; 558.2; 03-JAN-2005 06:03:08; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14875
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22; 739.4; 03-JAN-2005 06:06:09; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;14875
23; 868.9; 03-JAN-2005 06:08:19; Dark ; 61.5; 65; Lam Vel ; 2.20; 4400;occ; 123; 0;14875
24; 985.6; 03-JAN-2005 06:10:15; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;14875
25; 1183.5; 03-JAN-2005 06:13:33; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;14875
26; 1348.6; 03-JAN-2005 06:16:18; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;14875
27; 1440.0; 03-JAN-2005 06:17:50; Dark ; 45.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 91; 0;14875

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31; 2029.5; 03-JAN-2005 06:27:39; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;14875
32; 2216.3; 03-JAN-2005 06:30:46; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;14875
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34; 2472.4; 03-JAN-2005 06:35:02; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14875
35; 2556.9; 03-JAN-2005 06:36:27; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;14875
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27; -873.3; 11-JAN-2005 19:52:57; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;14997
28; -753.2; 11-JAN-2005 19:54:57; Dark ; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;14997
29; -606.3; 11-JAN-2005 19:57:24; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;14997
30; -298.7; 11-JAN-2005 20:02:31; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;14997
31; -189.9; 11-JAN-2005 20:04:20; Dark ; 95.5; 15; 67Alp Vir ; 0.98; 28000;occ; 191; 0;14997
32; 5.4; 11-JAN-2005 20:07:35; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;14998
33; 257.6; 11-JAN-2005 20:11:48; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;14998
34; 359.0; 11-JAN-2005 20:13:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14998
35; 510.9; 11-JAN-2005 20:16:01; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;14998
36; 601.2; 11-JAN-2005 20:17:31; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;14998
37; 709.5; 11-JAN-2005 20:19:20; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;14998
38; 790.0; 11-JAN-2005 20:20:40; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;14998
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2; -606.2; 12-JAN-2005 00:59:11; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;15000
3; -298.3; 12-JAN-2005 01:04:19; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;15000
4; -183.1; 12-JAN-2005 01:06:15; Dark ; 114.5; 15; 67Alp Vir ; 0.98; 28000;occ; 229; 0;15000
5; 258.7; 12-JAN-2005 01:13:36; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;15001
6; 362.0; 12-JAN-2005 01:15:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15001
7; 511.1; 12-JAN-2005 01:17:49; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15001
8; 600.9; 12-JAN-2005 01:19:19; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;15001
9; 709.5; 12-JAN-2005 01:21:07; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;15001
10; 790.1; 12-JAN-2005 01:22:28; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;15001
11; 1013.8; 12-JAN-2005 01:26:12; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;15001
12; 1117.3; 12-JAN-2005 01:27:55; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;15001
13; 1222.6; 12-JAN-2005 01:29:40; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;15001
14; 1376.0; 12-JAN-2005 01:32:14; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;15001
15; 1464.2; 12-JAN-2005 01:33:42; Dark ; 44.5; 179; 240mi2CMA ; 3.03; 24000;occ; 89; 0;15001
16; 1599.9; 12-JAN-2005 01:35:58; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;15001
17; 1795.2; 12-JAN-2005 01:39:13; Dark ; 38.0; 7; 19Bet Ori ; 0.10; 14000;occ; 76; 0;15001
18; 1896.8; 12-JAN-2005 01:40:54; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;15001
19; 2022.9; 12-JAN-2005 01:43:01; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;15001
20; 2190.7; 12-JAN-2005 01:45:48; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;15001
21; 2293.4; 12-JAN-2005 01:47:31; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;15001
22; 2397.7; 12-JAN-2005 01:49:15; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15001
23; 2488.3; 12-JAN-2005 01:50:46; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;15001
24; 2672.5; 12-JAN-2005 01:53:50; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;15001
25; 2799.9; 12-JAN-2005 01:55:58; Bright; 52.5; 175; 39Del Per ; 3.01; 19400;occ; 105; 0;15001

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1;	-2365.3;	12-JAN-2005	02:10:28;	Bright;	42.0;	60;	7Bet UMi	; 2.08;	3950;occ;	84;	6;	15001
2;	-2206.1;	12-JAN-2005	02:13:08;	Bright;	53.5;	32;	77Eps UMa	; 1.76;	11000;occ;	107;	0;	15001
3;	-1965.5;	12-JAN-2005	02:17:08;	Bright;	36.5;	130;	23Bet Dra	; 2.80;	5800;occ;	73;	0;	15001
4;	-1785.9;	12-JAN-2005	02:20:08;	Bright;	39.0;	5;	3Alp Lyr	; 0.03;	11000;occ;	78;	0;	15001
5;	-1683.0;	12-JAN-2005	02:21:51;	Bright;	49.5;	180;	27Gam Boo	; 3.04;	8000;occ;	99;	0;	15001
6;	-1424.4;	12-JAN-2005	02:26:09;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15001
7;	-1306.3;	12-JAN-2005	02:28:07;	Bright;	38.0;	59;	55Alp Oph	; 2.08;	8900;occ;	76;	0;	15001
8;	-1088.0;	12-JAN-2005	02:31:46;	Dark	; 89.0;	111;	8Eta Boo	; 2.68;	6000;occ;	178;	0;	15001
9;	-873.0;	12-JAN-2005	02:35:21;	Bright;	38.5;	98;	13Zet Oph	; 2.57;	30000;occ;	77;	0;	15001
10;	-752.5;	12-JAN-2005	02:37:21;	Dark	; 48.5;	104;	27Bet Lib	; 2.61;	13100;occ;	97;	0;	15001
11;	-606.8;	12-JAN-2005	02:39:47;	Dark	; 50.0;	16;	21Alp Sco	; 1.02;	3000;occ;	100;	0;	15001
12;	-298.4;	12-JAN-2005	02:44:55;	Dark	; 40.0;	131;	Gam Lup	; 2.80;	26000;occ;	80;	0;	15001
13;	-180.6;	12-JAN-2005	02:46:53;	Dark	; 97.5;	15;	67Alp Vir	; 0.98;	28000;occ;	195;	0;	15001
14;	257.1;	12-JAN-2005	02:54:11;	Dark	; 46.5;	20;	Bet Cru	; 1.25;	30000;occ;	93;	0;	15002
15;	363.0;	12-JAN-2005	02:55:57;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15002
16;	511.0;	12-JAN-2005	02:58:25;	Dark	; 40.5;	124;	The Car	; 2.76;	30000;occ;	81;	0;	15002
17;	600.8;	12-JAN-2005	02:59:54;	Dark	; 47.0;	29;	Bet Car	; 1.67;	10200;occ;	94;	0;	15002
18;	710.1;	12-JAN-2005	03:01:44;	Dark	; 44.0;	71;	Iot Car	; 2.25;	7700;occ;	88;	0;	15002
19;	789.8;	12-JAN-2005	03:03:03;	Dark	; 54.0;	41;	Eps Car	; 1.86;	4100;occ;	108;	0;	15002
20;	1014.5;	12-JAN-2005	03:06:48;	Dark	; 47.0;	2;	Alp Car	; -0.74;	7000;occ;	94;	0;	15002
21;	1117.5;	12-JAN-2005	03:08:31;	Dark	; 47.0;	70;	Zet Pup	; 2.25;	39000;occ;	94;	0;	15002
22;	1222.2;	12-JAN-2005	03:10:16;	Dark	; 48.5;	117;	Pi Pup	; 2.71;	3800;occ;	97;	0;	15002
23;	1376.3;	12-JAN-2005	03:12:50;	Dark	; 49.0;	23;	21Eps CMa	; 1.50;	26000;occ;	98;	0;	15002
24;	1464.5;	12-JAN-2005	03:14:18;	Dark	; 43.0;	179;	240mi2CMa	; 3.03;	24000;occ;	86;	0;	15002
25;	1600.1;	12-JAN-2005	03:16:34;	Dark	; 48.0;	1;	9Alp CMa	; -1.44;	11000;occ;	96;	0;	15002
26;	1795.3;	12-JAN-2005	03:19:49;	Dark	; 43.0;	7;	19Bet Ori	; 0.10;	14000;occ;	86;	0;	15002
27;	1896.9;	12-JAN-2005	03:21:31;	Dark	; 43.0;	30;	46Eps Ori	; 1.69;	30000;occ;	86;	0;	15002
28;	2022.6;	12-JAN-2005	03:23:36;	Dark	; 62.0;	8;	10Alp CMi	; 0.40;	6500;occ;	124;	0;	15002
29;	2190.6;	12-JAN-2005	03:26:24;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	15002
30;	2292.6;	12-JAN-2005	03:28:06;	Bright;	44.5;	151;	13Mu Gem	; 2.89;	3000;occ;	89;	0;	15002
31;	2396.8;	12-JAN-2005	03:29:50;	Bright;	39.5;	28;	12Bet Tau	; 1.65;	15200;occ;	79;	0;	15002
32;	2487.8;	12-JAN-2005	03:31:21;	Bright;	40.5;	114;	3Iot Aur	; 2.69;	4600;occ;	81;	0;	15002
33;	2672.5;	12-JAN-2005	03:34:26;	Bright;	37.5;	42;	34Bet Aur	; 1.90;	10200;occ;	75;	0;	15002
34;	2800.1;	12-JAN-2005	03:36:34;	Bright;	37.0;	175;	39Del Per	; 3.01;	19400;occ;	74;	0;	15002

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1;	-2365.4;	12-JAN-2005	05:31:40;	Bright;	41.5;	60;	7Bet UMi	; 2.08;	3950;occ;	83;	5;	15003
2;	-2206.9;	12-JAN-2005	05:34:19;	Bright;	51.5;	32;	77Eps UMa	; 1.76;	11000;occ;	103;	0;	15003
3;	-1965.7;	12-JAN-2005	05:38:20;	Bright;	35.5;	130;	23Bet Dra	; 2.80;	5800;occ;	71;	0;	15003
4;	-1783.9;	12-JAN-2005	05:41:22;	Bright;	36.5;	5;	3Alp Lyr	; 0.03;	11000;occ;	73;	0;	15003
5;	-1683.2;	12-JAN-2005	05:43:02;	Bright;	49.0;	180;	27Gam Boo	; 3.04;	8000;occ;	98;	0;	15003
6;	-1424.1;	12-JAN-2005	05:47:22;	Bright;	53.5;	83;		; 2.38;	11000;occ;	107;	0;	15003
7;	-1304.1;	12-JAN-2005	05:49:22;	Bright;	36.5;	59;	55Alp Oph	; 2.08;	8900;occ;	73;	0;	15003
8;	-1086.0;	12-JAN-2005	05:53:00;	Dark	; 80.0;	111;	8Eta Boo	; 2.68;	6000;occ;	160;	0;	15003
9;	-872.5;	12-JAN-2005	05:56:33;	Bright;	53.0;	98;	13Zet Oph	; 2.57;	30000;occ;	106;	0;	15003
10;	-751.2;	12-JAN-2005	05:58:34;	Dark	; 50.5;	104;	27Bet Lib	; 2.61;	13100;occ;	101;	0;	15003
11;	-606.2;	12-JAN-2005	06:00:59;	Dark	; 45.0;	16;	21Alp Sco	; 1.02;	3000;occ;	90;	0;	15003
12;	-297.5;	12-JAN-2005	06:06:08;	Dark	; 43.0;	131;	Gam Lup	; 2.80;	26000;occ;	86;	0;	15003
13;	-175.8;	12-JAN-2005	06:08:10;	Dark	; 93.0;	15;	67Alp Vir	; 0.98;	28000;occ;	186;	0;	15003
14;	261.1;	12-JAN-2005	06:15:27;	Dark	; 42.5;	20;	Bet Cru	; 1.25;	30000;occ;	85;	0;	15004
15;	364.7;	12-JAN-2005	06:17:10;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	15004
16;	512.9;	12-JAN-2005	06:19:39;	Dark	; 41.0;	124;	The Car	; 2.76;	30000;occ;	82;	0;	15004
17;	602.3;	12-JAN-2005	06:21:08;	Dark	; 39.0;	29;	Bet Car	; 1.67;	10200;occ;	78;	0;	15004
18;	711.8;	12-JAN-2005	06:22:57;	Dark	; 42.0;	71;	Iot Car	; 2.25;	7700;occ;	84;	0;	15004
19;	791.2;	12-JAN-2005	06:24:17;	Dark	; 50.0;	41;	Eps Car	; 1.86;	4100;occ;	100;	0;	15004
20;	1014.8;	12-JAN-2005	06:28:00;	Dark	; 43.5;	2;	Alp Car	; -0.74;	7000;occ;	87;	0;	15004
21;	1118.9;	12-JAN-2005	06:29:45;	Dark	; 45.5;	70;	Zet Pup	; 2.25;	39000;occ;	91;	0;	15004
22;	1223.8;	12-JAN-2005	06:31:29;	Dark	; 45.0;	117;	Pi Pup	; 2.71;	3800;occ;	90;	0;	15004
23;	1379.5;	12-JAN-2005	06:34:05;	Dark	; 48.0;	23;	21Eps CMa	; 1.50;	26000;occ;	96;	0;	15004
24;	1465.4;	12-JAN-2005	06:35:31;	Dark	; 42.5;	179;	240mi2CMa	; 3.03;	24000;occ;	85;	0;	15004
25;	1601.4;	12-JAN-2005	06:37:47;	Dark	; 47.0;	1;	9Alp CMa	; -1.44;	11000;occ;	94;	0;	15004
26;	1795.3;	12-JAN-2005	06:41:01;	Dark	; 52.0;	7;	19Bet Ori	; 0.10;	14000;occ;	104;	0;	15004
27;	1896.9;	12-JAN-2005	06:42:43;	Dark	; 41.5;	30;	46Eps Ori	; 1.69;	30000;occ;	83;	0;	15004
28;	2022.0;	12-JAN-2005	06:44:48;	Dark	; 62.5;	8;	10Alp CMi	; 0.40;	6500;occ;	125;	0;	15004
29;	2191.3;	12-JAN-2005	06:47:37;	Dark	; 46.5;	44;	24Gam Gem	; 1.93;	11000;occ;	93;	0;	15004
30;	2293.0;	12-JAN-2005	06:49:19;	Bright;	45.0;	151;	13Mu Gem	; 2.89;	3000;occ;	90;	0;	15004
31;	2398.1;	12-JAN-2005	06:51:04;	Bright;	39.0;	28;	12Bet Tau	; 1.65;	15200;occ;	78;	0;	15004
32;	2488.8;	12-JAN-2005	06:52:34;	Bright;	39.5;	114;	3Iot Aur	; 2.69;	4600;occ;	79;	0;	15004

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3;-1965.2; 12-JAN-2005 07:18:56; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;15004
4;-1783.6; 12-JAN-2005 07:21:58; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;15004
5;-1682.9; 12-JAN-2005 07:23:39; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;15004
6;-1423.5; 12-JAN-2005 07:27:58; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;15004
7;-1084.9; 12-JAN-2005 07:33:37; Dark ; 82.0; 111; 8Eta Boo ; 2.68; 6000;occ; 164; 0;15004
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9; -749.8; 12-JAN-2005 07:39:12; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;15004
10; -605.9; 12-JAN-2005 07:41:36; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;15004
11; -297.0; 12-JAN-2005 07:46:45; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;15004
12; -173.4; 12-JAN-2005 07:48:48; Dark ; 94.0; 15; 67Alp Vir ; 0.98; 28000;occ; 188; 0;15004
13; 261.6; 12-JAN-2005 07:56:03; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;15005
14; 365.7; 12-JAN-2005 07:57:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15005
15; 513.1; 12-JAN-2005 08:00:15; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15005
16; 602.7; 12-JAN-2005 08:01:44; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;15005
17; 712.4; 12-JAN-2005 08:03:34; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;15005
18; 791.6; 12-JAN-2005 08:04:53; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;15005
19; 1014.6; 12-JAN-2005 08:08:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;15005
20; 1120.1; 12-JAN-2005 08:10:22; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;15005
21; 1224.1; 12-JAN-2005 08:12:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;15005
22; 1379.9; 12-JAN-2005 08:14:42; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;15005
23; 1465.7; 12-JAN-2005 08:16:07; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;15005
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2;-4138.9; 12-JAN-2005 08:23:19; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;15005
3;-4014.2; 12-JAN-2005 08:25:23; Dark ; 63.5; 8; 10Alp CMi ; 0.40; 6500;occ; 127; 0;15005
4;-3844.5; 12-JAN-2005 08:28:13; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;15005
5;-3742.1; 12-JAN-2005 08:29:55; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;15005
6;-3637.7; 12-JAN-2005 08:31:40; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15005
7;-3546.9; 12-JAN-2005 08:33:11; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;15005
8;-3363.6; 12-JAN-2005 08:36:14; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;15005
9;-3234.9; 12-JAN-2005 08:38:23; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;15005
10;-2613.3; 12-JAN-2005 08:48:44; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;15005
11;-2368.3; 12-JAN-2005 08:52:49; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;15005
12;-2208.4; 12-JAN-2005 08:55:29; Bright; 54.0; 32; 77Eps UMa ; 1.76; 11000;occ; 108; 0;15005
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 33; 4731.8; 13-JAN-2005 00:15:57; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;15014
 34; 4961.7; 13-JAN-2005 00:19:47; Dark ; 91.5; 111; 8Eta Boo ; 2.68; 6000;occ; 183; 0;15014
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 12;-2369.3; 12-JAN-2005 13:54:36; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;15008
 13;-2210.1; 12-JAN-2005 13:57:15; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;15008
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 28; 515.2; 12-JAN-2005 14:42:40; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15009
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38; 4628.1; 15-JAN-2005 22:39:23; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;15056
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27; 2929.0; 15-JAN-2005 23:51:40; Bright; 107.5; 166; 17Eps Leo ; 2.98; 6000;occ; 215; 0;15057
28; 3420.7; 15-JAN-2005 23:59:51; Bright; 41.0; 49; 1Alp UMi ; 1.99; 6300;occ; 82; 0;15057

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 33; 4263.7; 16-JAN-2005 00:13:54; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;15057
 34; 4453.4; 16-JAN-2005 00:17:04; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;15057
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13;-2278.9; 24-JAN-2005 10:57:56; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;15178
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15;-1952.0; 24-JAN-2005 11:03:23; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;15178
16;-1839.5; 24-JAN-2005 11:05:16; Bright; 115.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 230; 0;15178
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