

GOMOS Daily Report 06-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	08JAN2005 05:01:48

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (06JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

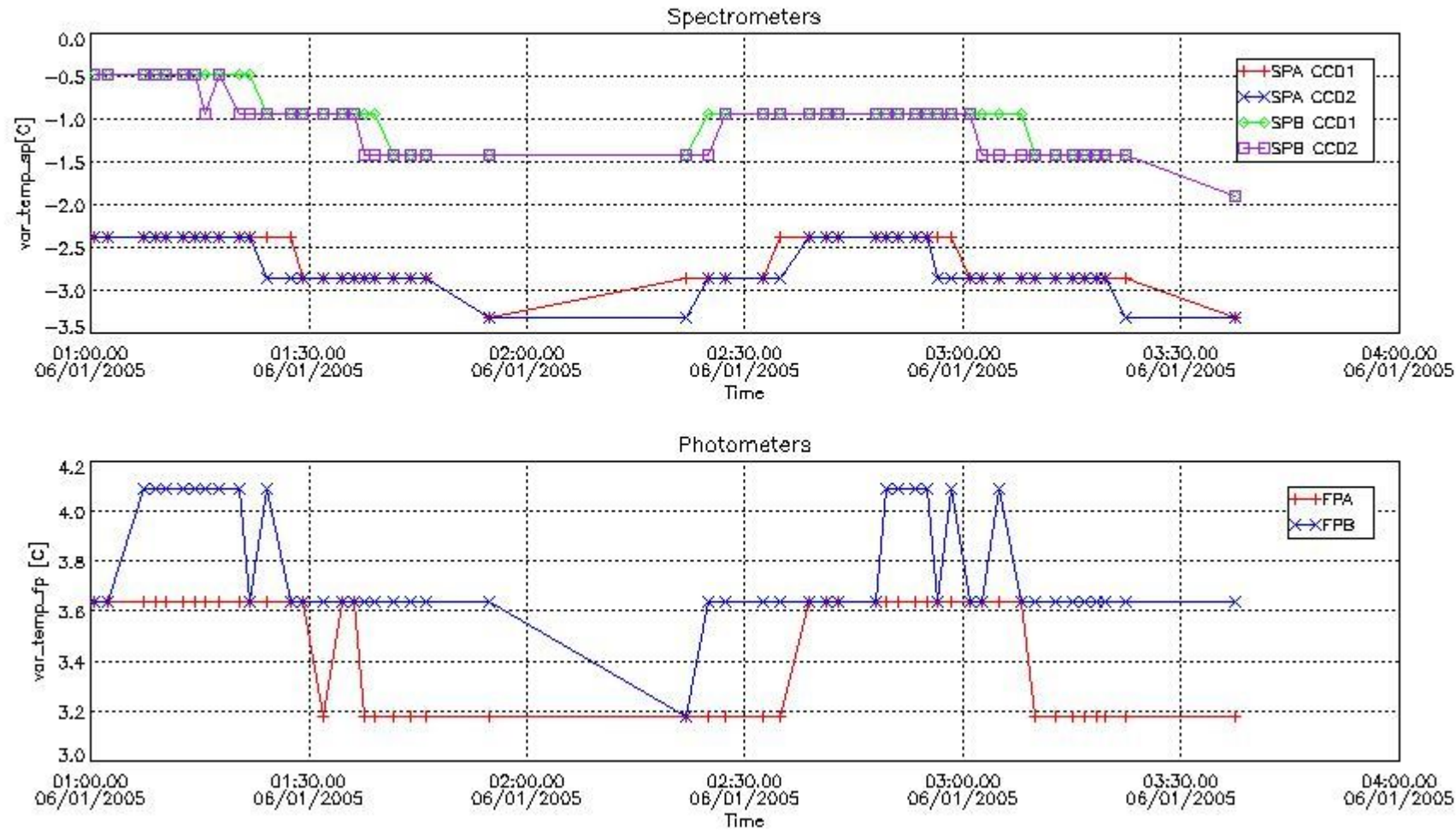
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050106_010034_000000462033_00332_14915_0000.N1	06-JAN-2005 01:00:34	Dark	46.000	64	Gam Cen	2.2000	10600.	92	14915	No
2	GOM_TRA_1PNPDE20050106_010214_000000422033_00332_14915_0001.N1	06-JAN-2005 01:02:14	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	14915	No
3	GOM_TRA_1PNPDE20050106_010718_000000472033_00332_14915_0002.N1	06-JAN-2005 01:07:18	Dark	47.000	29	Bet Car	1.6720	10200.	94	14915	No
4	GOM_TRA_1PNPDE20050106_010854_000000432033_00332_14915_0003.N1	06-JAN-2005 01:08:54	Dark	43.000	71	Iot Car	2.2460	7700.0	86	14915	No
5	GOM_TRA_1PNPDE20050106_011022_000000492033_00332_14915_0004.N1	06-JAN-2005 01:10:22	Dark	48.500	41	Eps Car	1.8600	4100.0	97	14915	No
6	GOM_TRA_1PNPDE20050106_011242_000000572033_00332_14915_0005.N1	06-JAN-2005 01:12:42	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	14915	No
7	GOM_TRA_1PNPDE20050106_011422_000000452033_00332_14915_0006.N1	06-JAN-2005 01:14:22	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	14915	No
8	GOM_TRA_1PNPDE20050106_011549_000000452033_00332_14915_0007.N1	06-JAN-2005 01:15:49	Dark	45.000	70	Zet Pup	2.2460	39000.	90	14915	No
9	GOM_TRA_1PNPDE20050106_011742_000000512033_00332_14915_0008.N1	06-JAN-2005 01:17:42	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	14915	No
10	GOM_TRA_1PNPDE20050106_012025_000000502033_00332_14915_0009.N1	06-JAN-2005 01:20:25	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	14915	No
11	GOM_TRA_1PNPDE20050106_012155_000000462033_00332_14915_0010.N1	06-JAN-2005 01:21:55	Twilight	45.500	179	24Omi2CMa	3.0320	24000.	91	14915	No
12	GOM_TRA_1PNPDE20050106_012413_000000522033_00332_14915_0011.N1	06-JAN-2005 01:24:13	Twilight	51.500	1	9Alp CMa	-1.4400	11000.	103	14915	No
13	GOM_TRA_1PNPDE20050106_012724_000000512033_00332_14915_0012.N1	06-JAN-2005 01:27:24	Bright	51.000	7	19Bet Ori	0.10000	14000.	102	14915	No
14	GOM_TRA_1PNPDE20050106_012911_000000452033_00332_14915_0013.N1	06-JAN-2005 01:29:11	Bright	44.500	30	46Eps Ori	1.6940	30000.	89	14915	No
15	GOM_TRA_1PNPDE20050106_013159_000000682033_00332_14915_0014.N1	06-JAN-2005 01:31:59	Bright	67.500	8	10Alp CMi	0.40000	6500.0	135	14915	No
16	GOM_TRA_1PNPDE20050106_013432_000000492033_00332_14915_0015.N1	06-JAN-2005 01:34:32	Bright	49.000	44	24Gam Gem	1.9280	11000.	98	14915	No
17	GOM_TRA_1PNPDE20050106_013612_000000442033_00332_14915_0016.N1	06-JAN-2005 01:36:12	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	14915	No
18	GOM_TRA_1PNPDE20050106_013739_000000402033_00332_14915_0017.N1	06-JAN-2005 01:37:39	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	14915	No
19	GOM_TRA_1PNPDE20050106_013902_000000402033_00332_14915_0018.N1	06-JAN-2005 01:39:02	Bright	39.500	114	3Iot Aur	2.6930	4600.0	79	14915	No
20	GOM_TRA_1PNPDE20050106_014137_000000372033_00332_14915_0019.N1	06-JAN-2005 01:41:37	Bright	37.000	149	45Eps Per	2.8880	30000.	74	14915	No
21	GOM_TRA_1PNPDE20050106_014355_000000362033_00332_14915_0020.N1	06-JAN-2005 01:43:55	Bright	36.000	175	39Del Per	3.0100	19400.	72	14915	No
22	GOM_TRA_1PNPDE20050106_014608_000000382033_00332_14915_0021.N1	06-JAN-2005 01:46:08	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14915	No
23	GOM_TRA_1PNPDE20050106_015448_000000352033_00332_14915_0022.N1	06-JAN-2005 01:54:48	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	14915	No
24	GOM_TRA_1PNPDE20050106_022154_000000392033_00332_14915_0000.N1	06-JAN-2005 02:21:54	Twilight	39.000	120	1Del Oph	2.7340	3200.0	78	14915	No
25	GOM_TRA_1PNPDE20050106_022457_000000462033_00332_14915_0001.N1	06-JAN-2005 02:24:57	Twilight	45.500	104	27Bet Lib	2.6140	13100.	91	14915	No
26	GOM_TRA_1PNPDE20050106_022722_000000422033_00332_14915_0002.N1	06-JAN-2005 02:27:22	Twilight	42.000	80	7Del Sco	2.3160	30000.	84	14915	No
27	GOM_TRA_1PNPDE20050106_023224_000000732033_00332_14915_0003.N1	06-JAN-2005 02:32:24	Dark	72.500	15	67Alp Vir	0.97600	28000.	145	14915	No
28	GOM_TRA_1PNPDE20050106_023451_000000552033_00332_14915_0004.N1	06-JAN-2005 02:34:51	Dark	55.000	54	5The Cen	2.0550	4500.0	110	14915	No
29	GOM_TRA_1PNPDE20050106_023846_000000472033_00333_14916_0005.N1	06-JAN-2005 02:38:46	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	14916	No
30	GOM_TRA_1PNPDE20050106_024111_000000472033_00333_14916_0006.N1	06-JAN-2005 02:41:11	Dark	46.500	64	Gam Cen	2.2000	10600.	93	14916	No
31	GOM_TRA_1PNPDE20050106_024250_000000442033_00333_14916_0007.N1	06-JAN-2005 02:42:50	Dark	43.500	12	Alp1Cru	0.77500	30000.	87	14916	No
32	GOM_TRA_1PNPDE20050106_024755_000000402033_00333_14916_0008.N1	06-JAN-2005 02:47:55	Dark	40.000	29	Bet Car	1.6720	10200.	80	14916	No
33	GOM_TRA_1PNPDE20050106_024930_000000482033_00333_14916_0009.N1	06-JAN-2005 02:49:30	Dark	47.500	71	Iot Car	2.2460	7700.0	95	14916	No
34	GOM_TRA_1PNPDE20050106_025056_000000552033_00333_14916_0010.N1	06-JAN-2005 02:50:56	Dark	55.000	41	Eps Car	1.8600	4100.0	110	14916	No
35	GOM_TRA_1PNPDE20050106_025318_000000562033_00333_14916_0011.N1	06-JAN-2005 02:53:18	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	14916	No
36	GOM_TRA_1PNPDE20050106_025458_000000442033_00333_14916_0012.N1	06-JAN-2005 02:54:58	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	14916	No
37	GOM_TRA_1PNPDE20050106_025625_000000482033_00333_14916_0013.N1	06-JAN-2005 02:56:25	Dark	47.500	70	Zet Pup	2.2460	39000.	95	14916	No
38	GOM_TRA_1PNPDE20050106_025819_000000482033_00333_14916_0014.N1	06-JAN-2005 02:58:19	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	14916	No
39	GOM_TRA_1PNPDE20050106_030101_000000482033_00333_14916_0015.N1	06-JAN-2005 03:01:01	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	14916	No
40	GOM_TRA_1PNPDE20050106_030230_000000462033_00333_14916_0016.N1	06-JAN-2005 03:02:30	Twilight	45.500	179	24Omi2CMa	3.0320	24000.	91	14916	No
41	GOM_TRA_1PNPDE20050106_030451_000000502033_00333_14916_0017.N1	06-JAN-2005 03:04:51	Twilight	49.500	1	9Alp CMa	-1.4400	11000.	99	14916	No
42	GOM_TRA_1PNPDE20050106_030800_000000492033_00333_14916_0018.N1	06-JAN-2005 03:08:00	Bright	49.000	7	19Bet Ori	0.10000	14000.	98	14916	No
43	GOM_TRA_1PNPDE20050106_030945_000000492033_00333_14916_0019.N1	06-JAN-2005 03:09:45	Bright	48.500	30	46Eps Ori	1.6940	30000.	97	14916	No
44	GOM_TRA_1PNPDE20050106_031235_000000642033_00333_14916_0020.N1	06-JAN-2005 03:12:35	Bright	64.000	8	10Alp CMi	0.40000	6500.0	128	14916	No
45	GOM_TRA_1PNPDE20050106_031507_000000472033_00333_14916_0021.N1	06-JAN-2005 03:15:07	Bright	47.000	44	24Gam Gem	1.9280	11000.	94	14916	No
46	GOM_TRA_1PNPDE20050106_031649_000000452033_00333_14916_0022.N1	06-JAN-2005 03:16:49	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	14916	No

47	GOM_TRA_1PNPDE20050106_031815_000000392033_00333_14916_0023.N1	06-JAN-2005 03:18:15	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	14916	No
48	GOM_TRA_1PNPDE20050106_031938_000000402033_00333_14916_0024.N1	06-JAN-2005 03:19:38	Bright	39.500	114	31ot Aur	2.6930	4600.0	79	14916	No
49	GOM_TRA_1PNPDE20050106_032214_000000382033_00333_14916_0025.N1	06-JAN-2005 03:22:14	Bright	37.500	149	45Eps Per	2.8880	30000.	75	14916	No
50	GOM_TRA_1PNPDE20050106_033725_000000482033_00333_14916_0000.N1	06-JAN-2005 03:37:25	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	14916	No

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



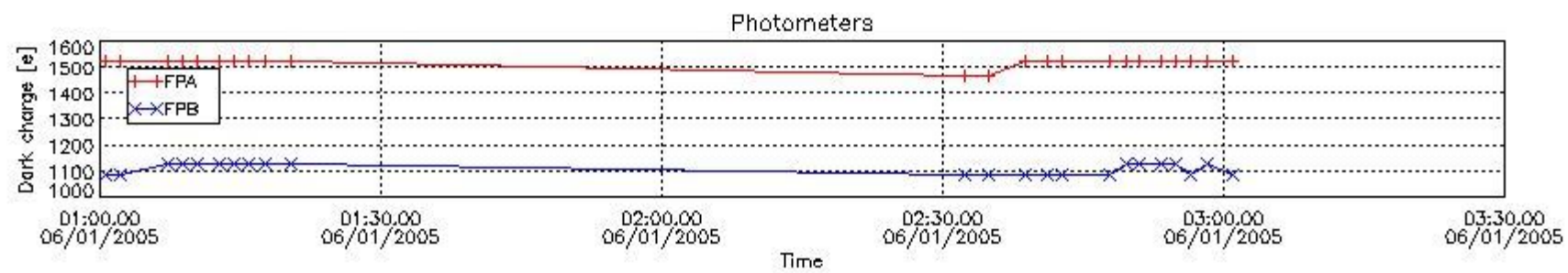
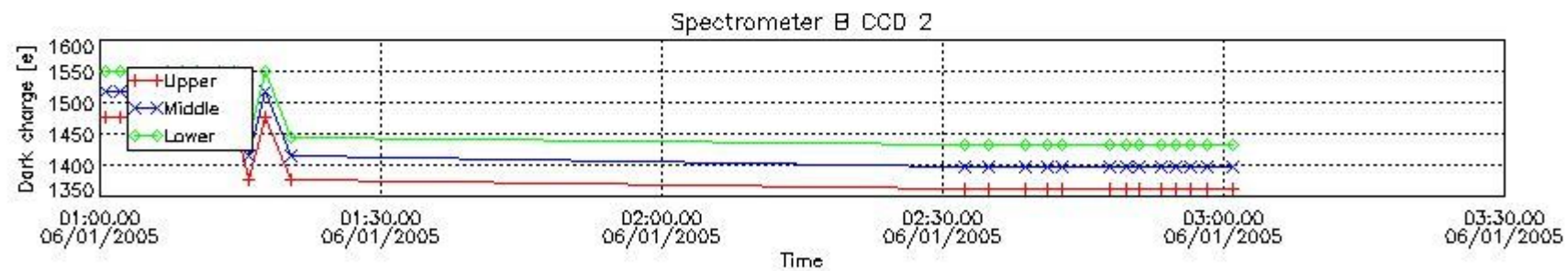
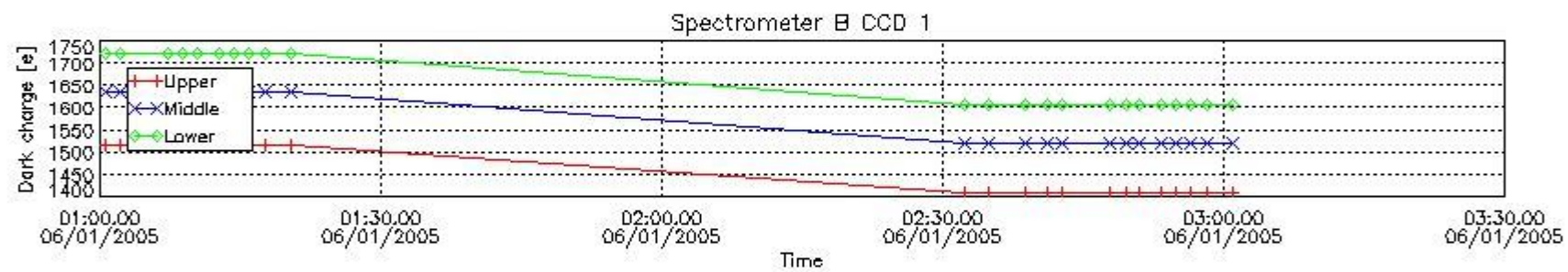
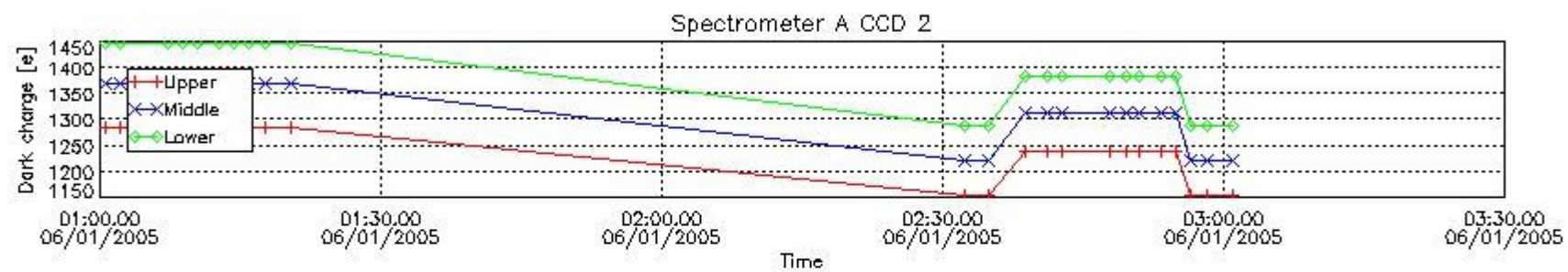
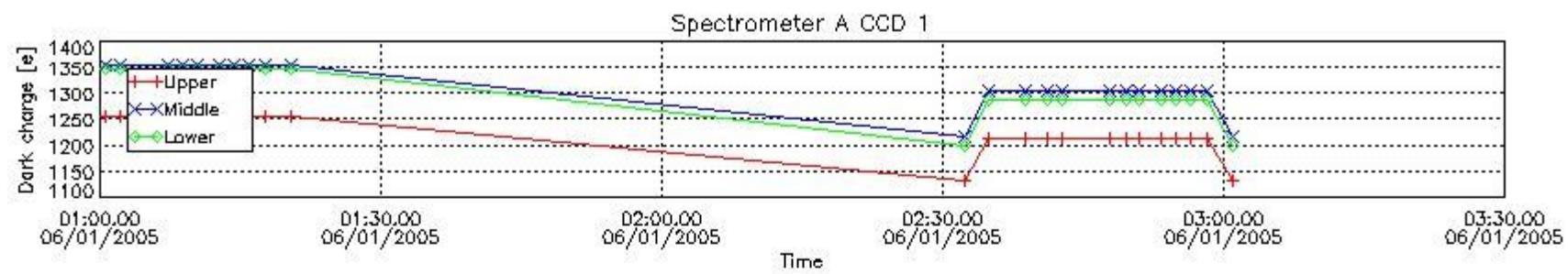
4. Overview of dark signal processing per product

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



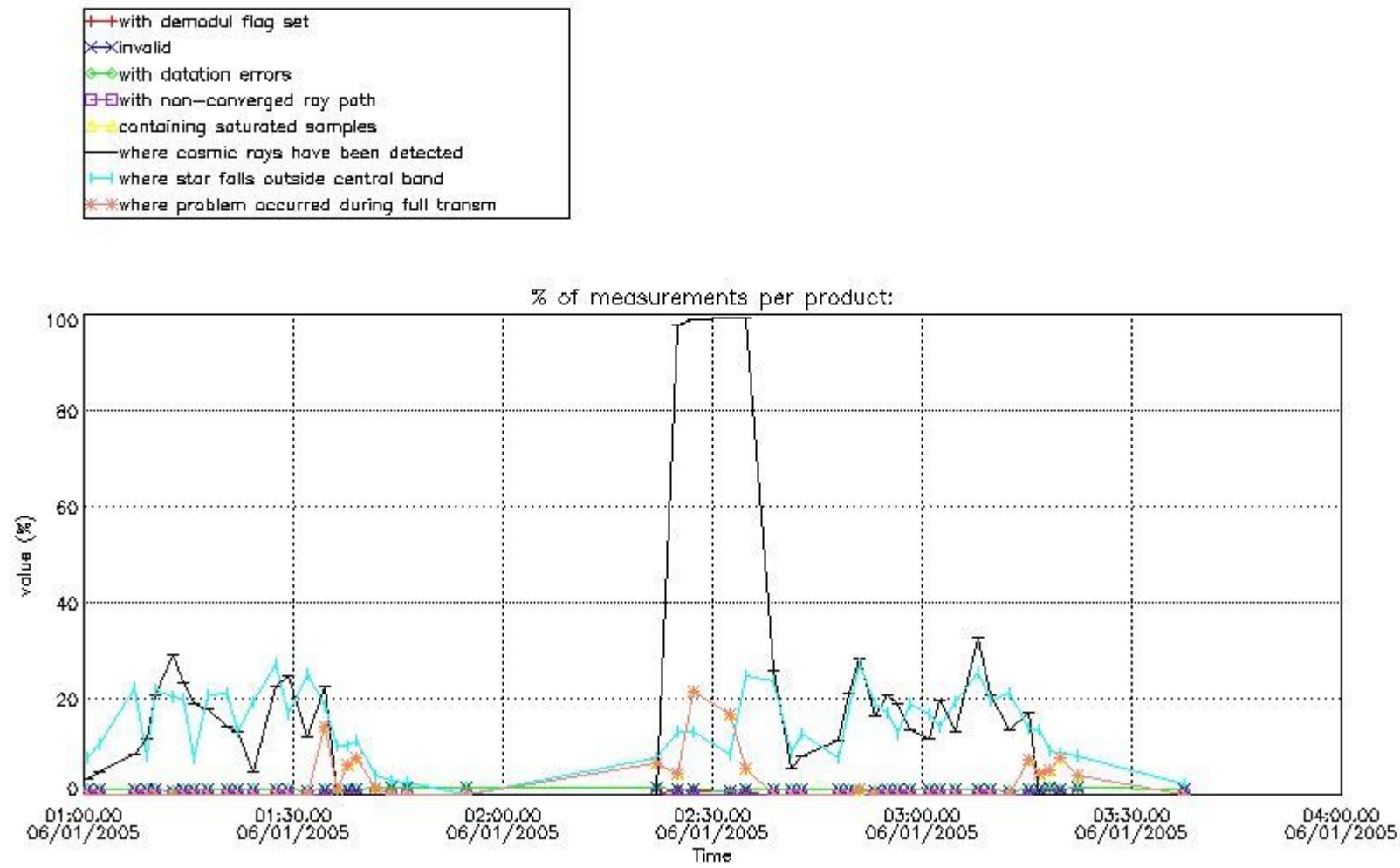
5. Demodulation flag and quality information monitoring

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.

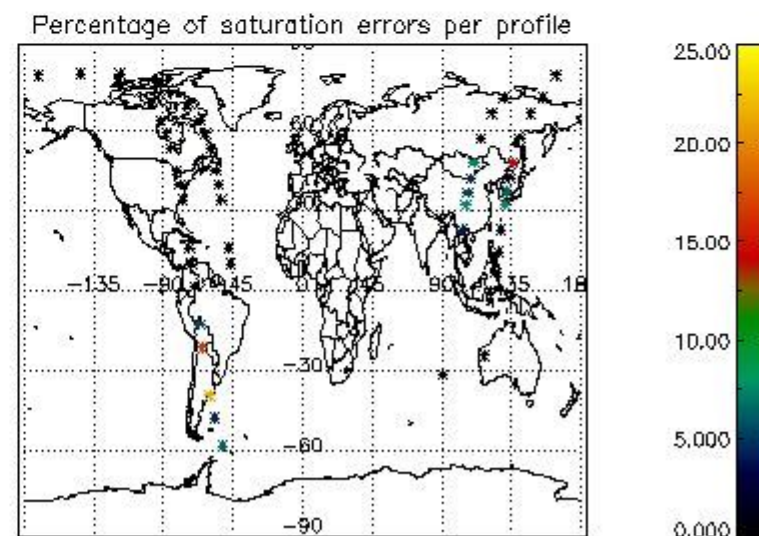
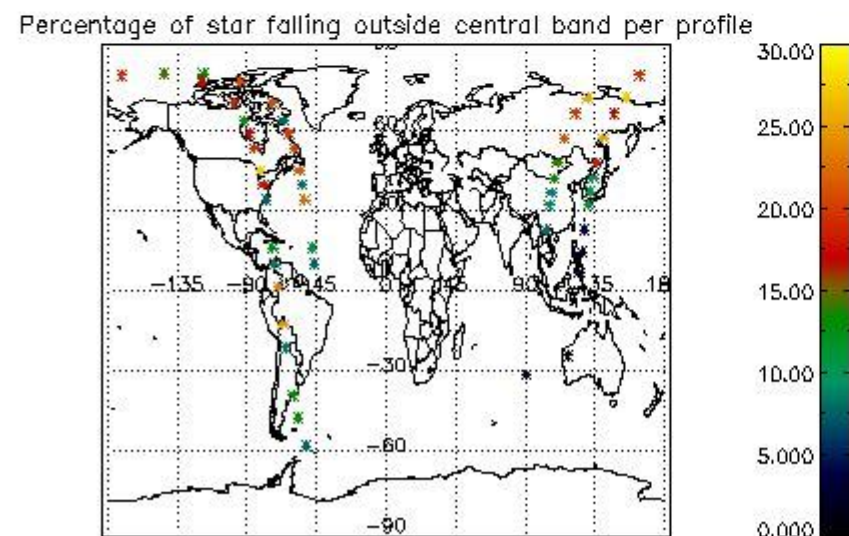
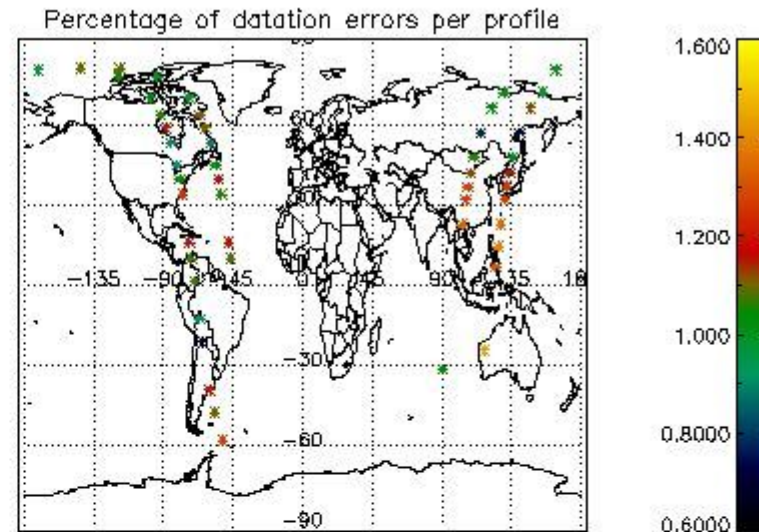
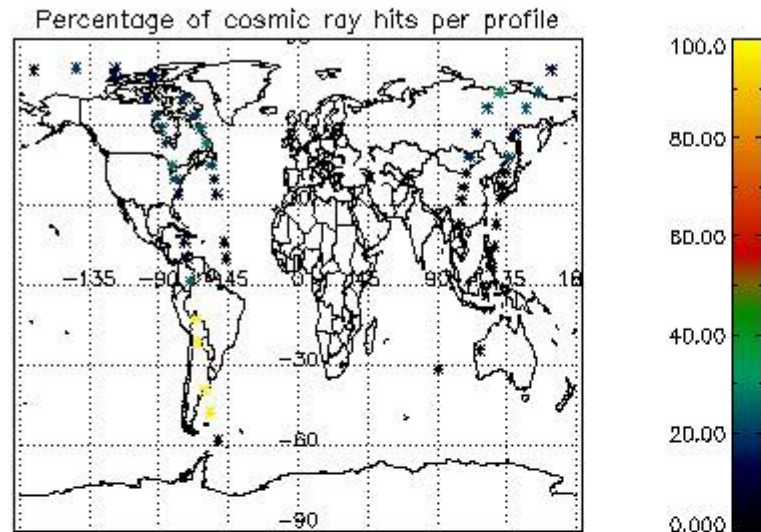
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.0000 %
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)



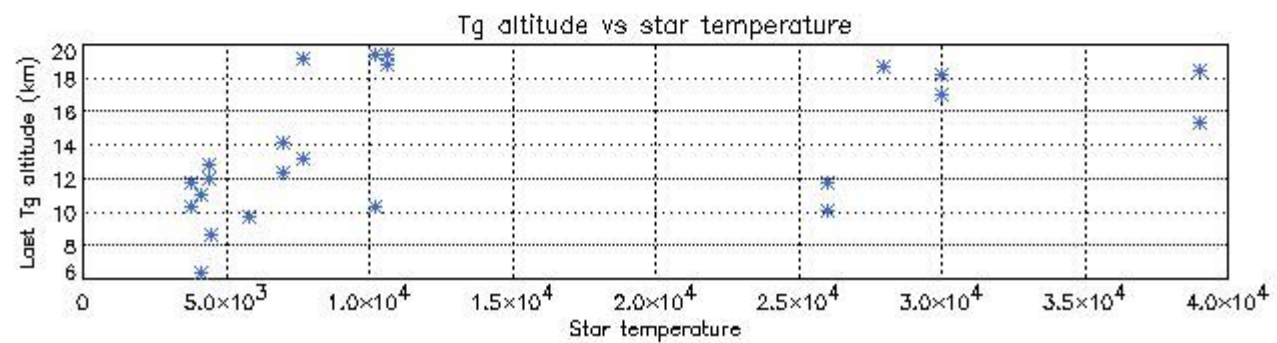
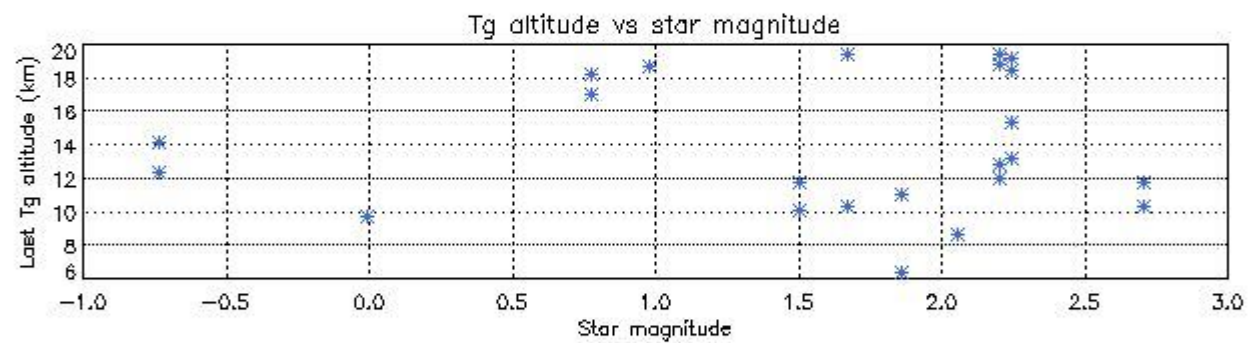
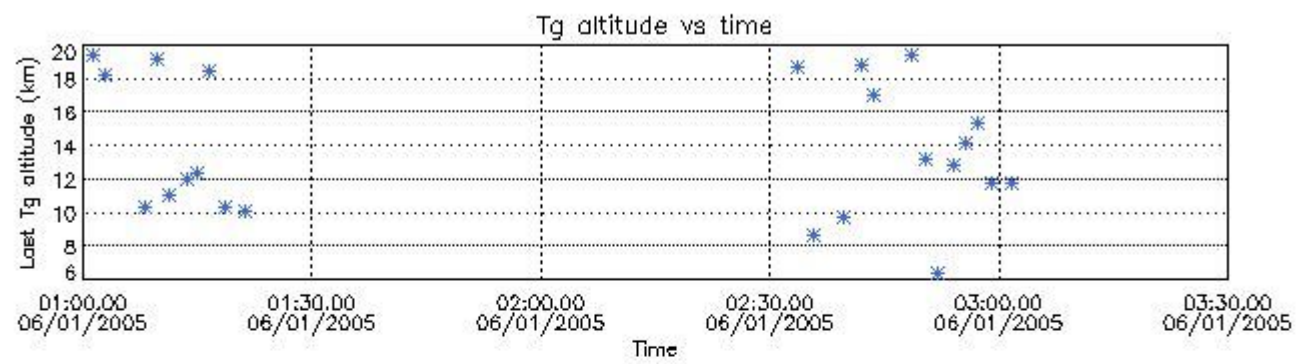
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.858	16.617	14.539
St. deviation:	4.0179	6.2809	2.6373
Maximum:	19.427	29.269	19.259
Minimum:	6.3190	6.8288	11.442
Number of data:	23.000	20.000	7.0000

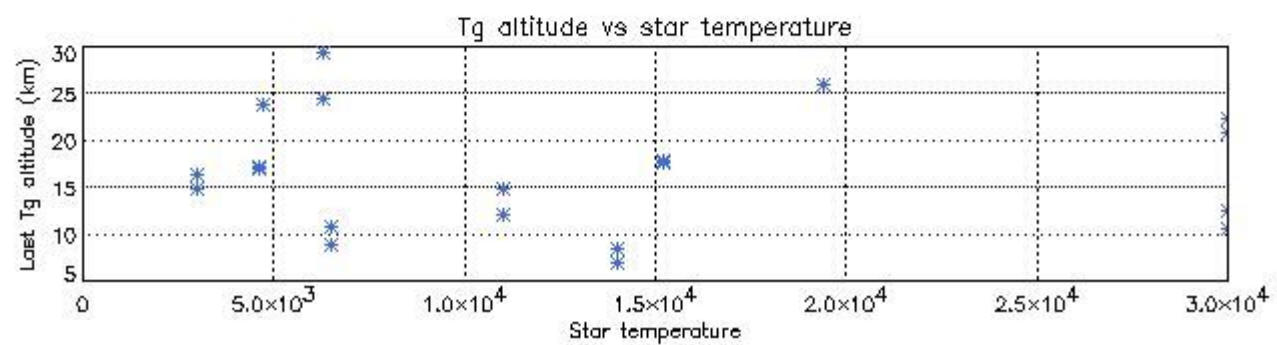
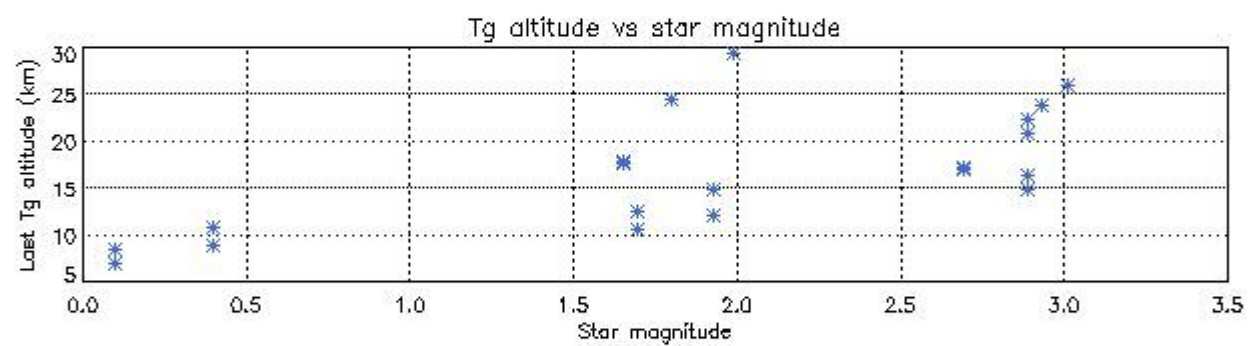
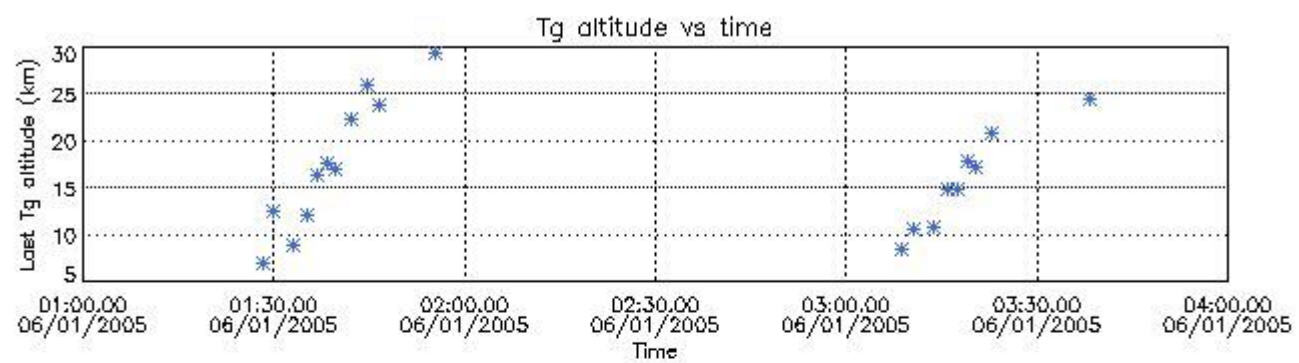
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



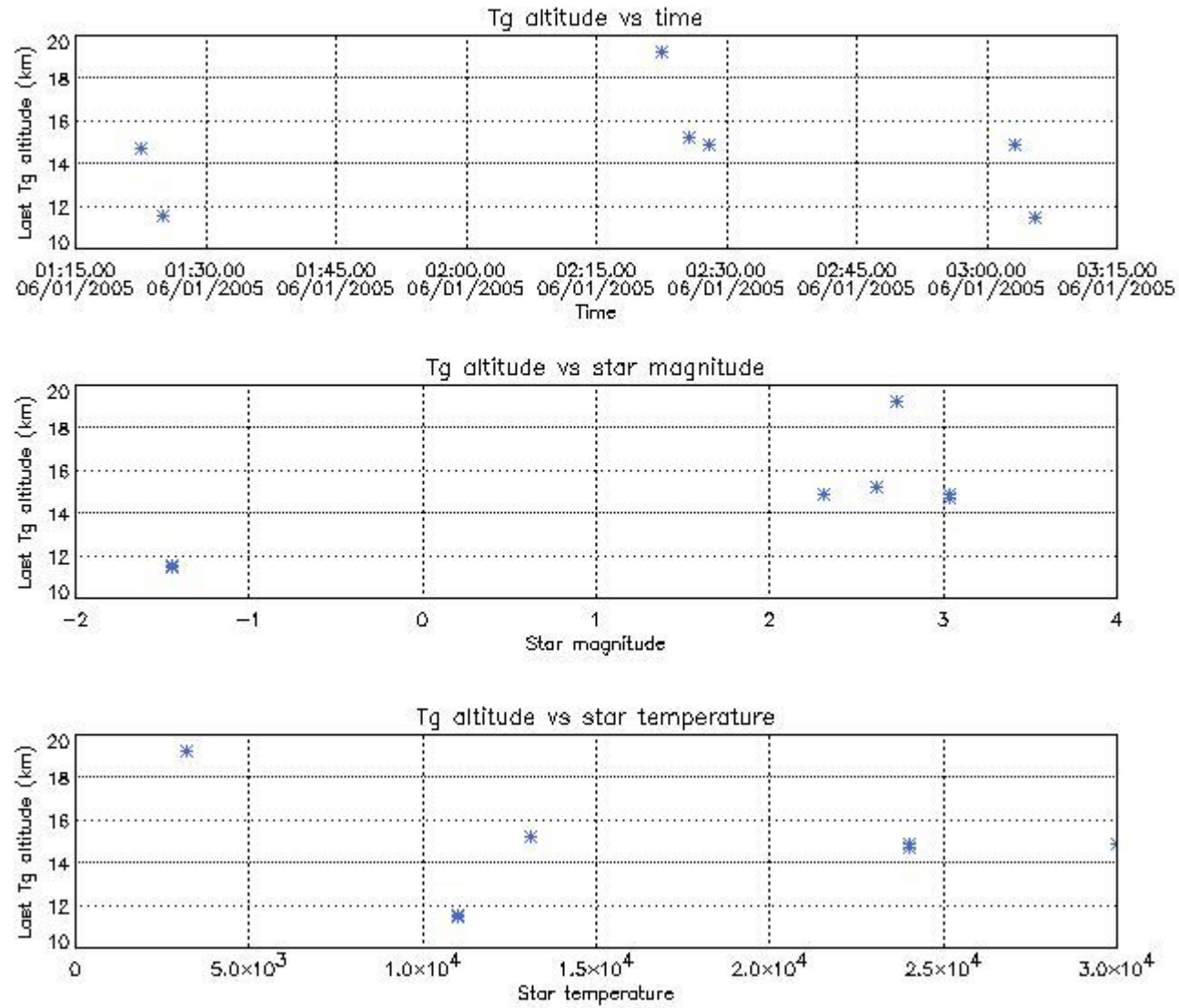
6.3 Plot for BRIGHT limb products

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

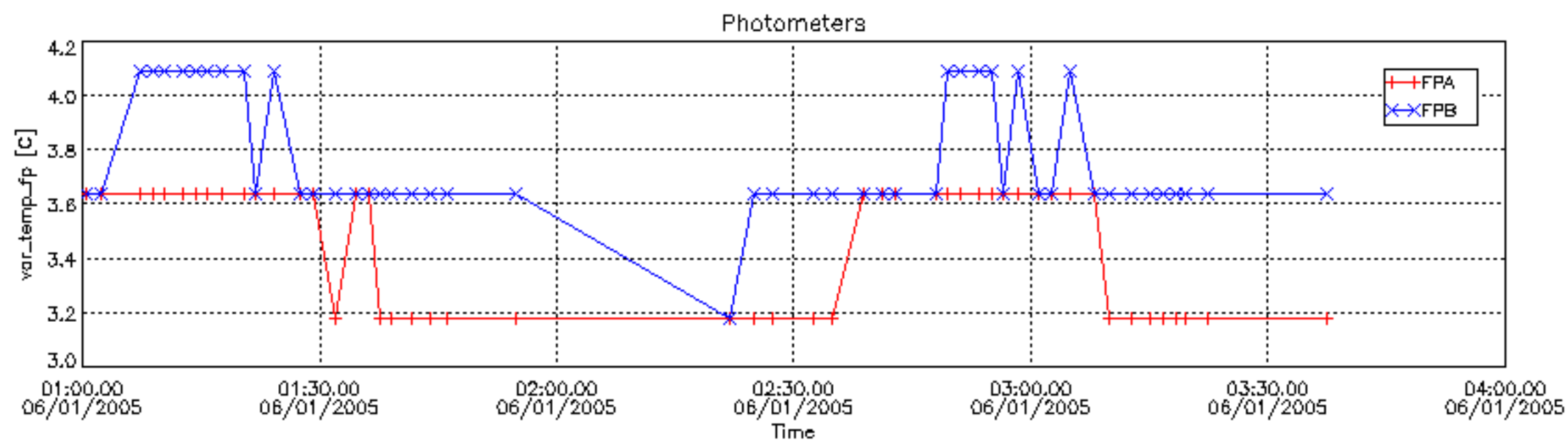
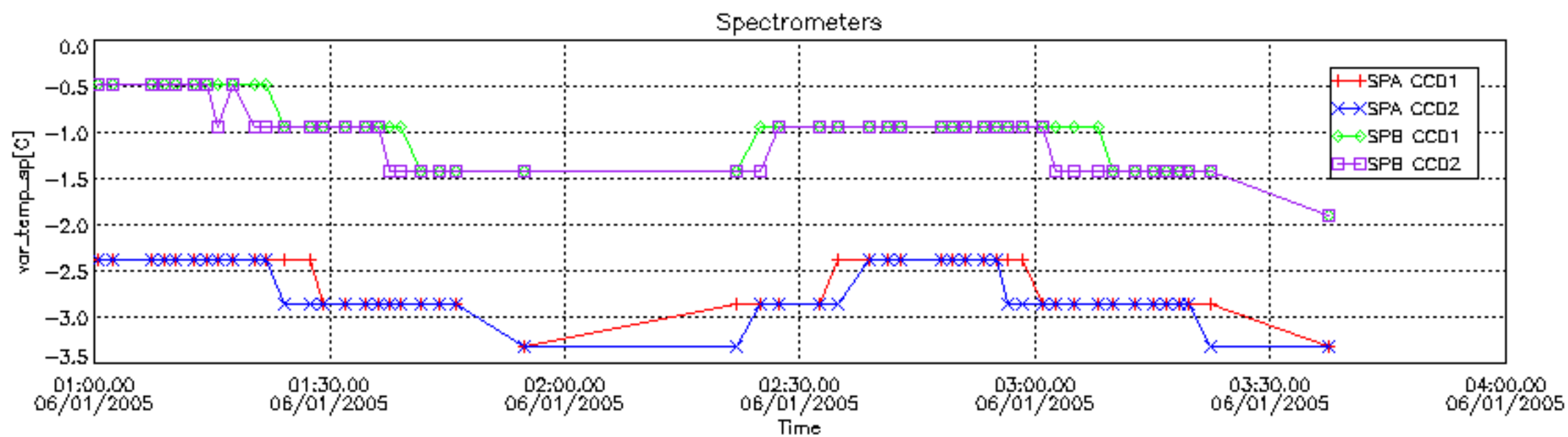
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

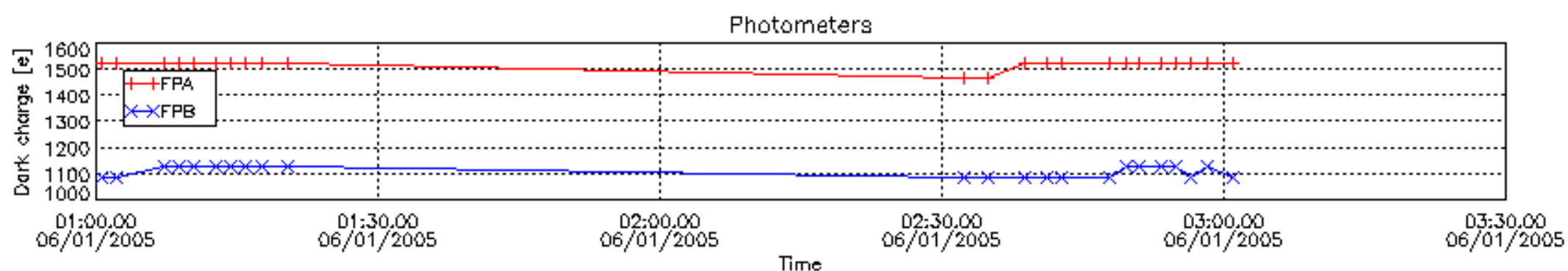
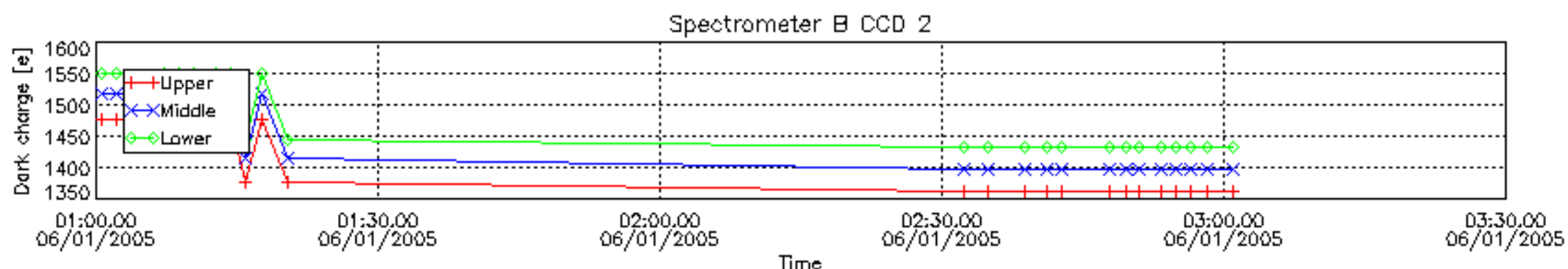
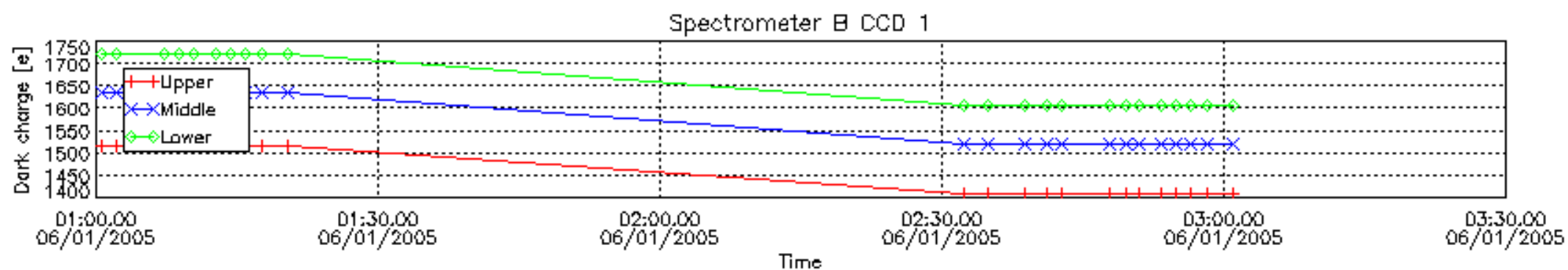
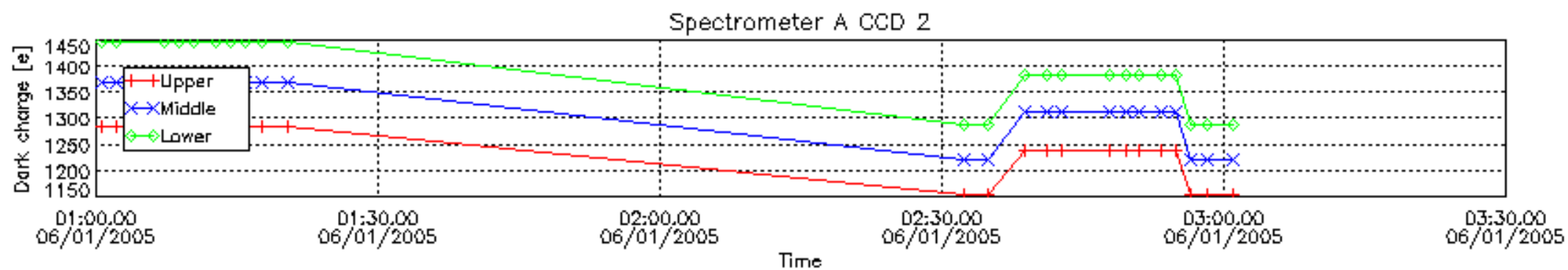
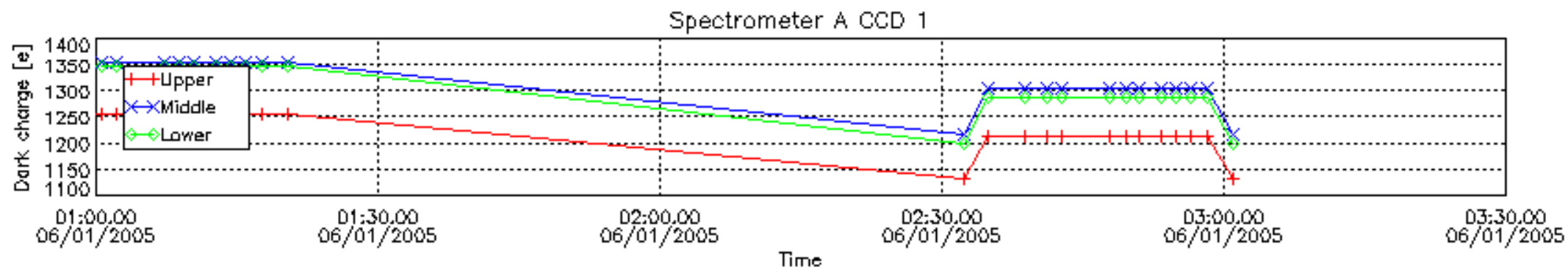
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.9	1447.1	1461.2	1446.6
St. deviation:	3.9431	7.3761	6.3119	9.7846
Maximum:	1494.0	1487.0	1515.0	1527.0
Minimum:	1448.0	1422.0	1451.0	1435.0
Number of data:	28200.	28200.	22850.	22850.

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

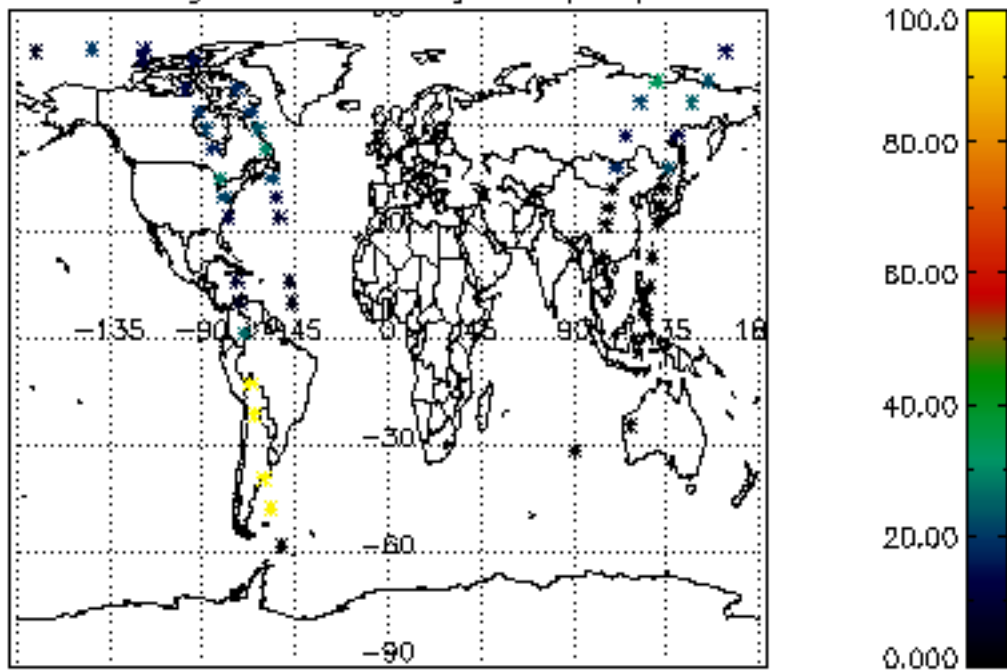
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	06-JAN-2005 01:00:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	06-JAN-2005 01:00:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	06-JAN-2005 01:00:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-JAN-2005 01:00:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	06-JAN-2005 01:00:34
ECMWF_FILE	AUX_ECF_AXNECM20050105_060943_20050105_210000_20050106_090000	1	06-JAN-2005 01:00:34
ECMWF_FILE	AUX_ECF_AXNECM20050105_193041_20050106_030000_20050106_150000	50	06-JAN-2005 03:37:25
OPTIONAL_ECMWF_FILE	NOT USED	1	06-JAN-2005 01:00:34
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050105_231007_20050105_195559_20050115_212214	1	06-JAN-2005 01:00:34

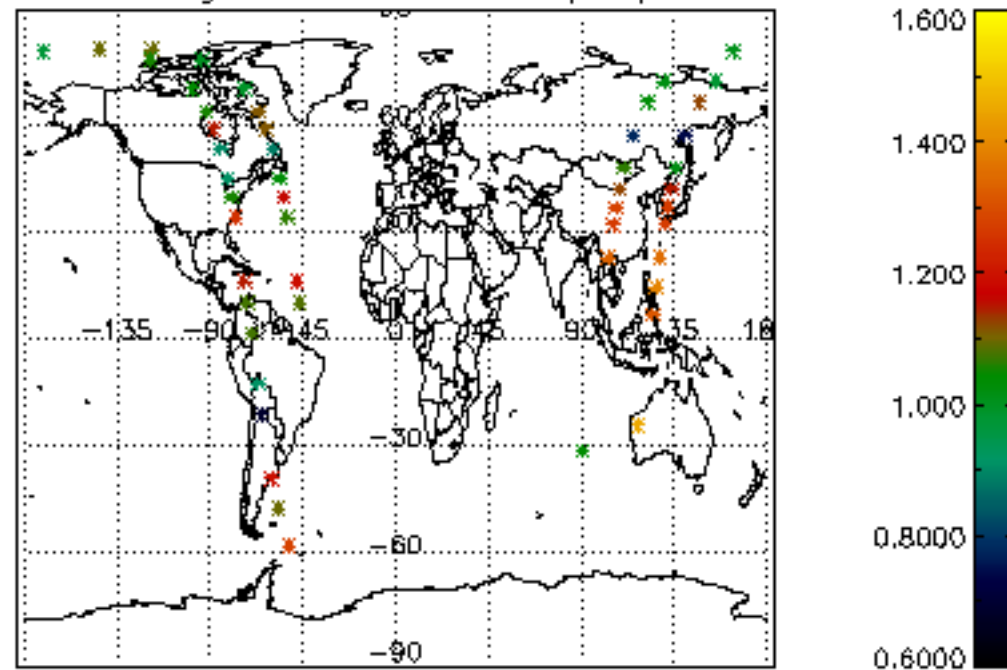




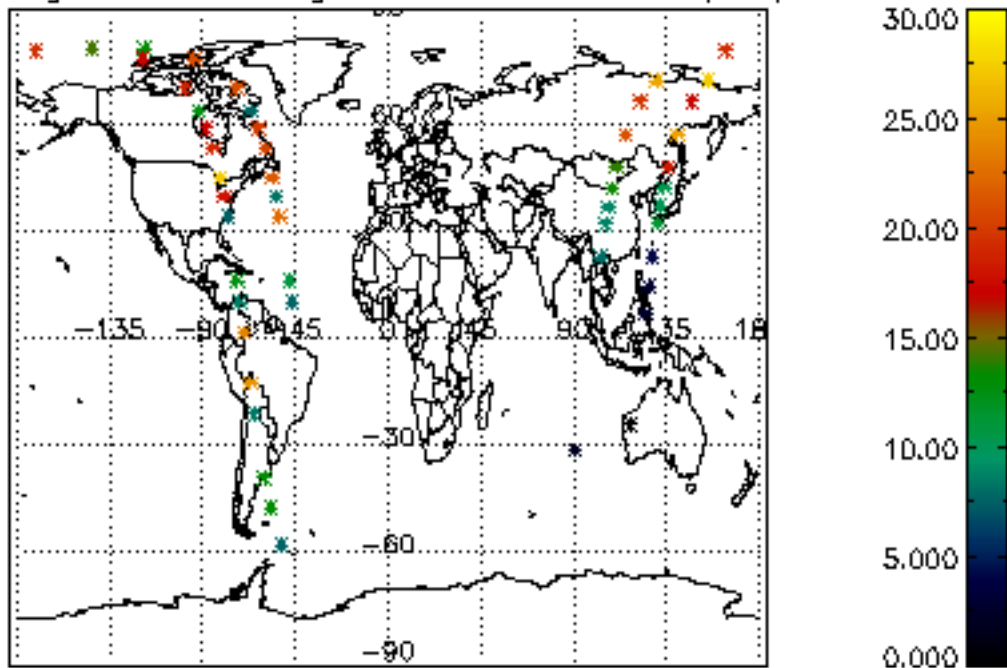
Percentage of cosmic ray hits per profile



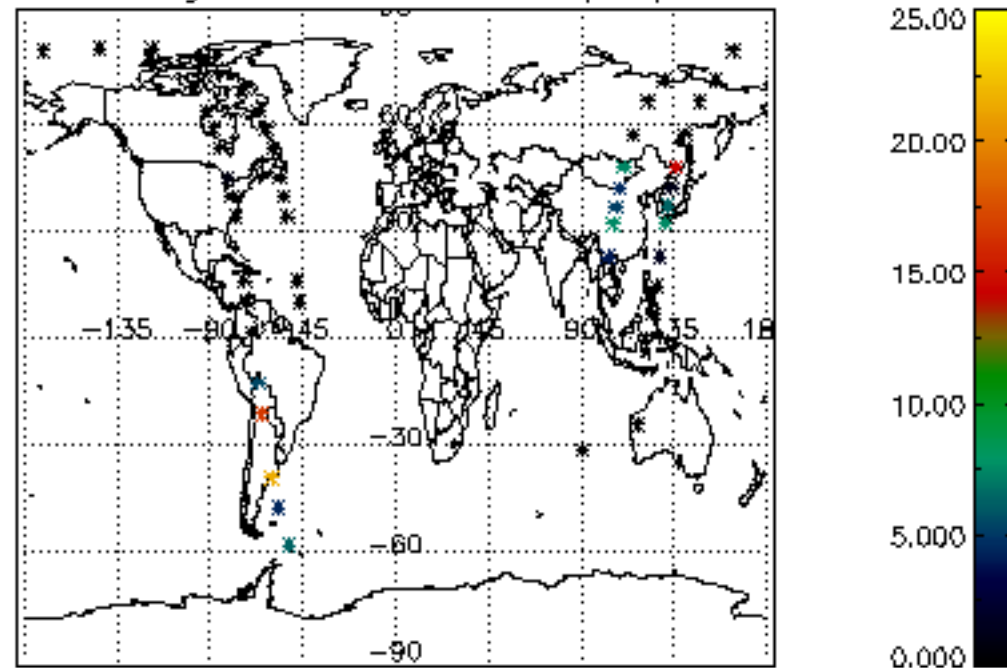
Percentage of datation errors per profile



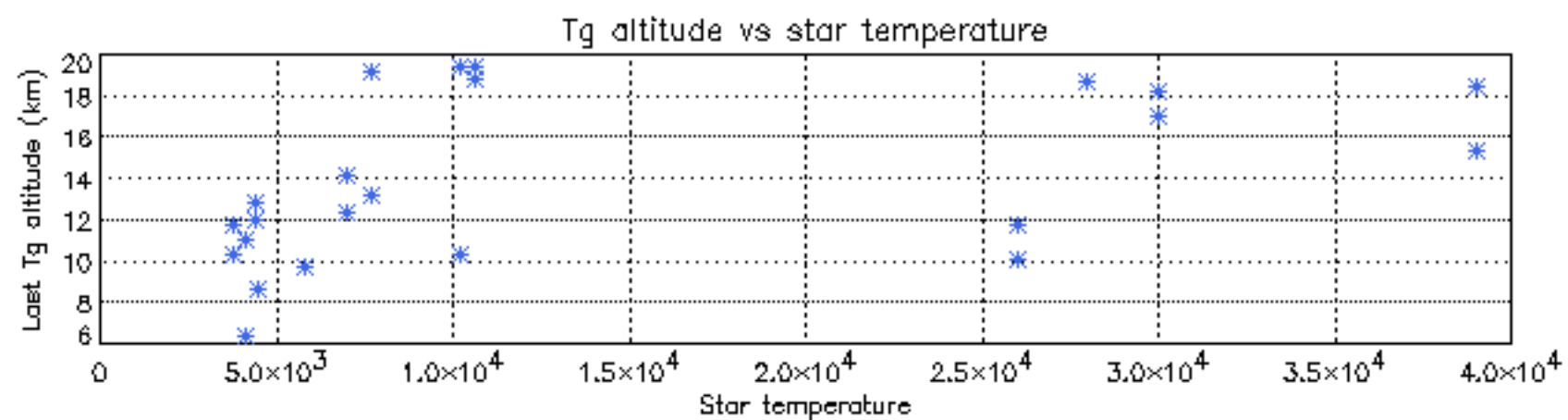
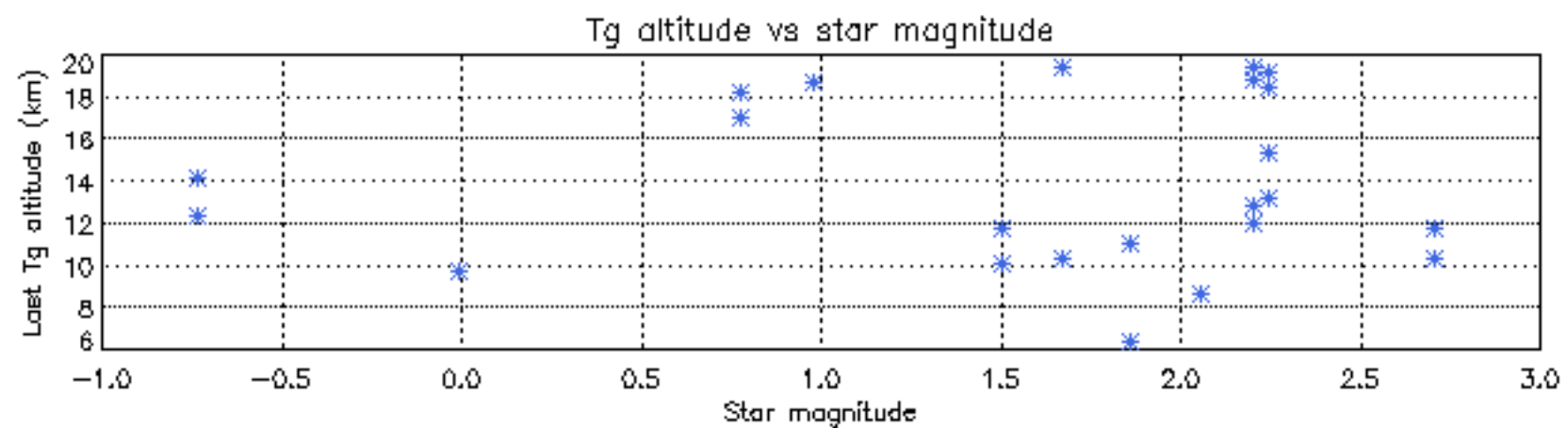
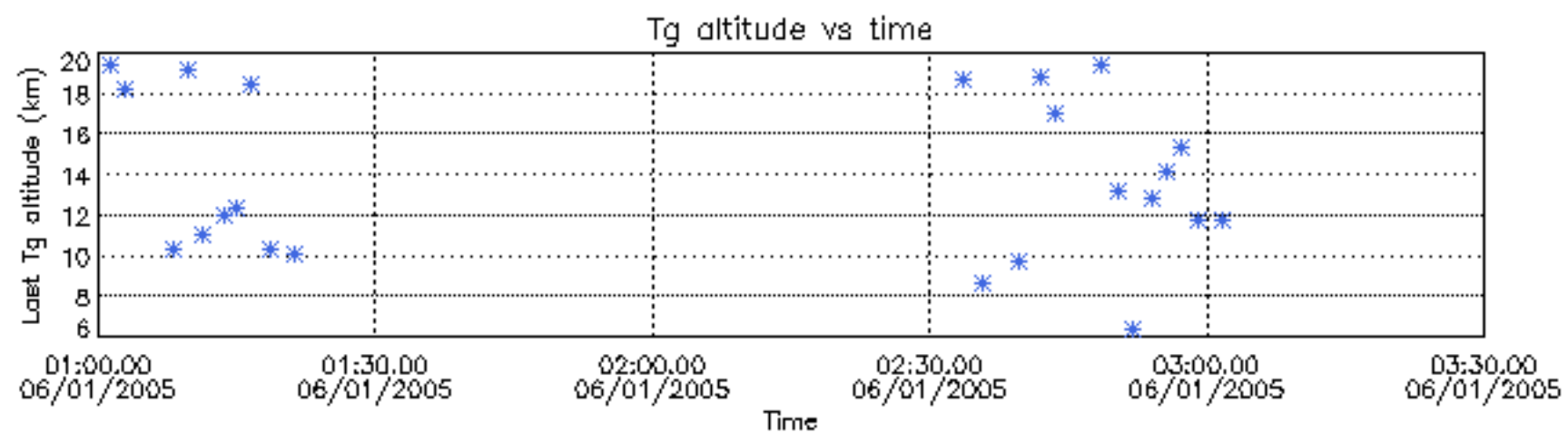
Percentage of star falling outside central band per profile



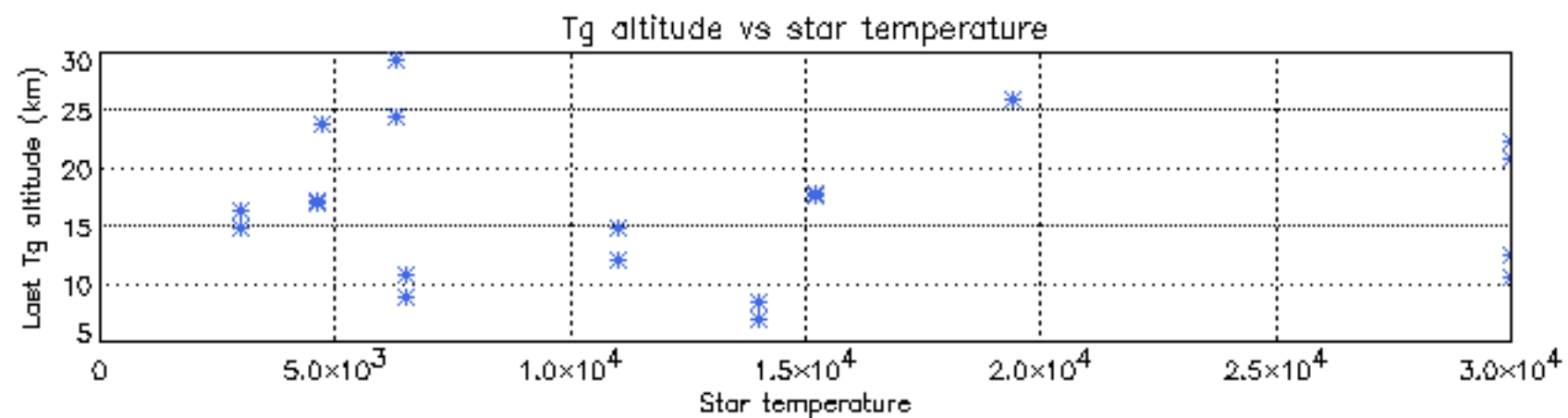
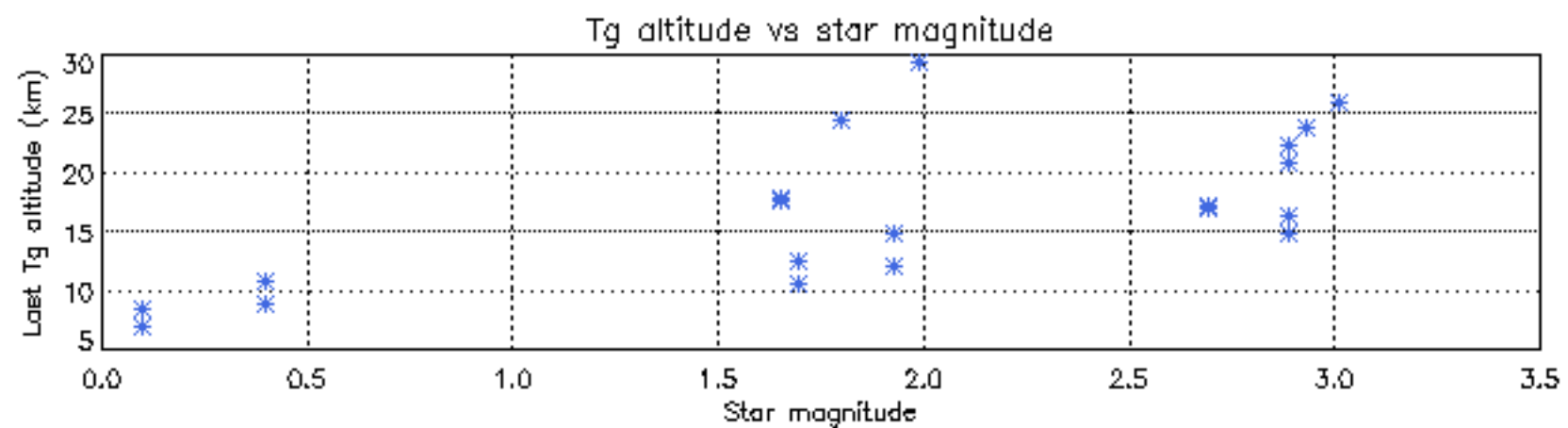
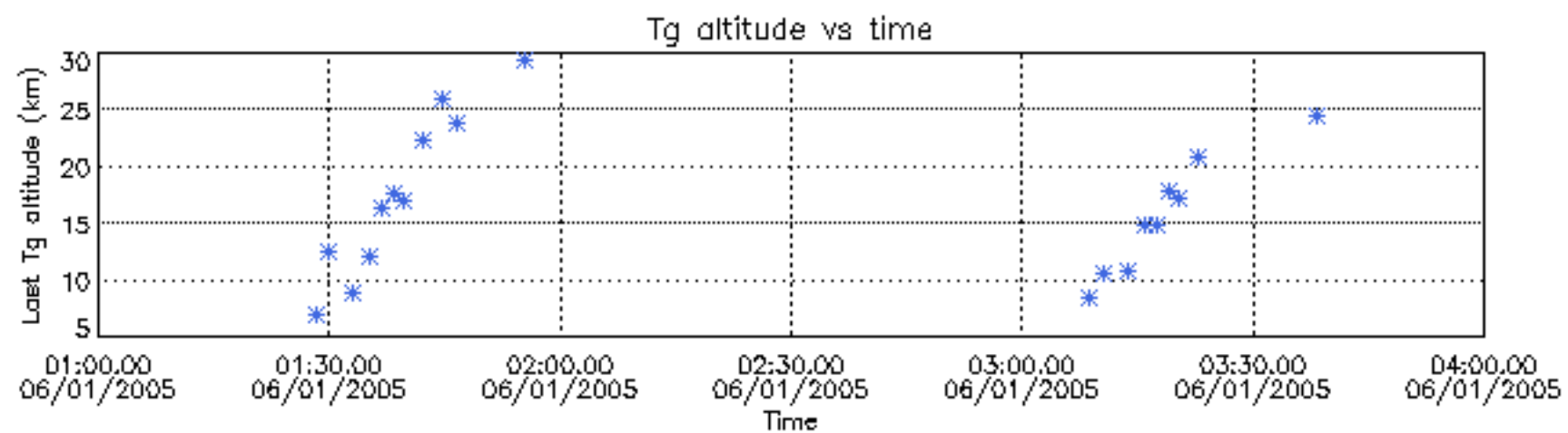
Percentage of saturation errors per profile



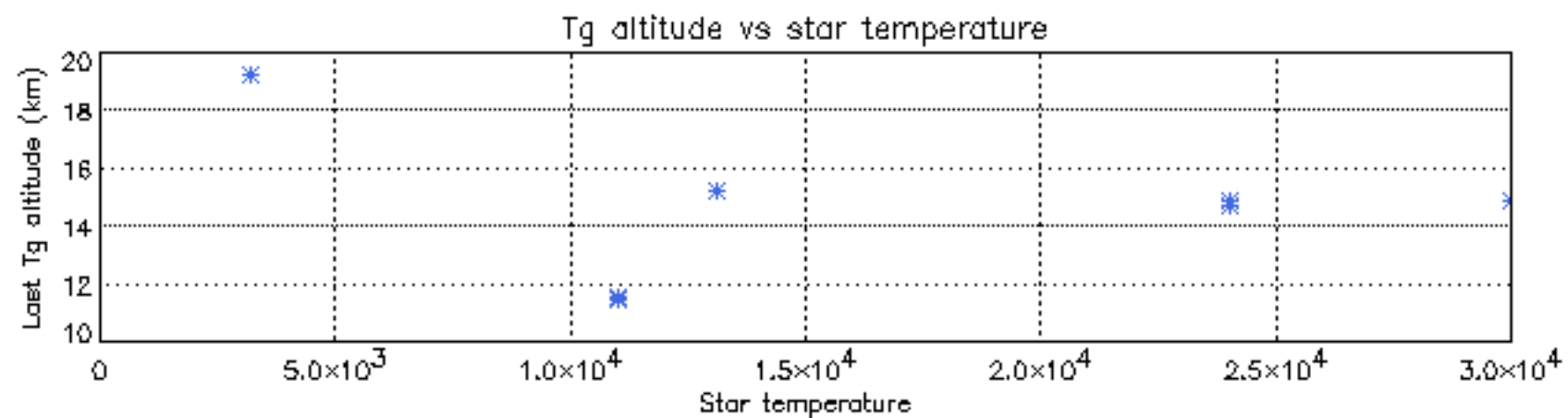
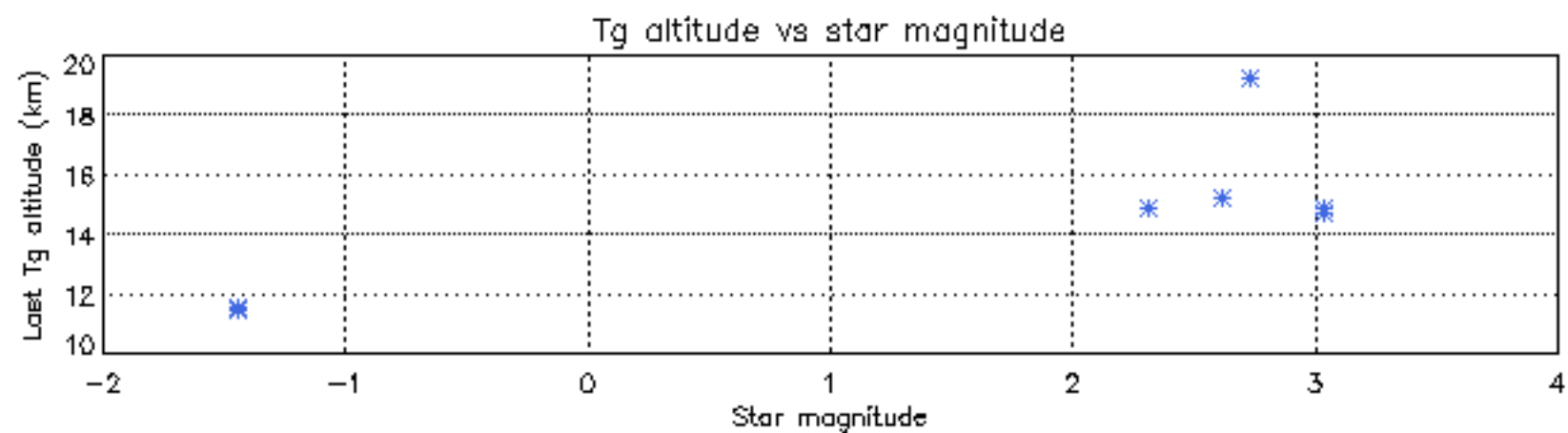
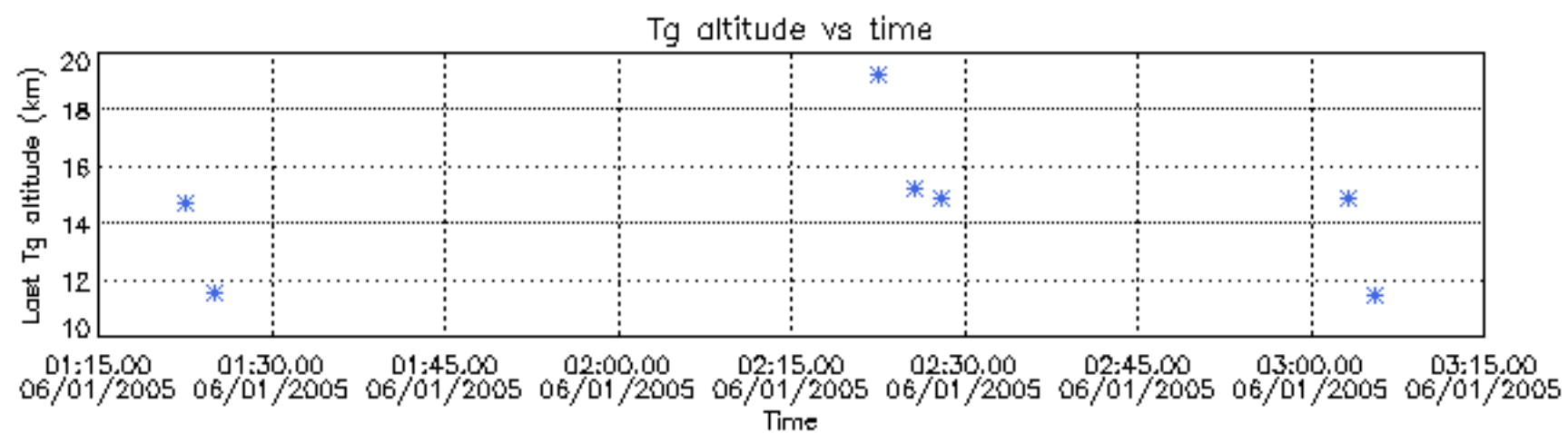
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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1; -683.2; 01-JAN-2005 00:03:17; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;14842
 2; -474.4; 01-JAN-2005 00:06:46; Dark ; 69.0; 15; 67Alp Vir ; 0.98; 28000;occ; 138; 0;14842
 3; -192.1; 01-JAN-2005 00:11:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;14842
 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
 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843
 8; 400.9; 01-JAN-2005 00:21:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14843
 9; 547.0; 01-JAN-2005 00:23:48; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14843
 10; 628.2; 01-JAN-2005 00:25:09; Dark ; 51.5; 71; Iot Car ; 2.25; 7700;occ; 103; 0;14843
 11; 725.4; 01-JAN-2005 00:26:46; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;14843
 12; 846.1; 01-JAN-2005 00:28:47; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14843
 13; 977.2; 01-JAN-2005 00:30:58; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;14843
 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
 19; 1879.6; 01-JAN-2005 00:46:00; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14843
 20; 2091.3; 01-JAN-2005 00:49:32; Dark ; 83.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 166; 0;14843
 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
 24; 2562.0; 01-JAN-2005 00:57:23; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14843
 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
 29; 3592.4; 01-JAN-2005 01:14:33; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;14843
 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
 33; 4351.9; 01-JAN-2005 01:27:12; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;14843
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 36; 5028.6; 01-JAN-2005 01:38:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14843
 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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 4; -192.0; 01-JAN-2005 01:52:04; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14843
 5; -103.3; 01-JAN-2005 01:53:33; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14843
 6; -1.3; 01-JAN-2005 01:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;14843
 7; 107.7; 01-JAN-2005 01:57:04; Dark ; 49.0; 64; Gam Cen ; 2.20; 10600;occ; 98; 0;14844
 8; 227.5; 01-JAN-2005 01:59:04; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;14844
 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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 12; 723.5; 01-JAN-2005 02:07:20; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;14844
 13; 847.2; 01-JAN-2005 02:09:24; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;14844
 14; 977.4; 01-JAN-2005 02:11:34; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;14844
 15; 1170.1; 01-JAN-2005 02:14:47; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14844
 16; 1339.6; 01-JAN-2005 02:17:36; Dark ; 50.0; 23; 21Eps Cma ; 1.50; 26000;occ; 100; 0;14844
 17; 1432.3; 01-JAN-2005 02:19:09; Dark ; 45.5; 179; 240mi2Cma ; 3.03; 24000;occ; 91; 0;14844
 18; 1578.1; 01-JAN-2005 02:21:35; Dark ; 59.0; 1; 9Alp Cma ;-1.44; 11000;occ; 118; 0;14844
 19; 1767.7; 01-JAN-2005 02:24:44; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14844
 20; 1877.4; 01-JAN-2005 02:26:34; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;14844
 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
 25; 2563.4; 01-JAN-2005 02:38:00; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14844
 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
 29; 3418.8; 01-JAN-2005 02:52:15; Bright; 36.5; 49; 1Alp Umi ; 1.99; 6300;occ; 73; 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
 3;-2069.2; 01-JAN-2005 03:01:23; Bright; 48.0; 55; 79Zet UMA ; 2.06; 10200;occ; 96; 0;14844
 4;-1931.2; 01-JAN-2005 03:03:41; Bright; 47.5; 39; 85Eta UMA ; 1.85; 24000;occ; 95; 0;14844
 5;-1684.3; 01-JAN-2005 03:07:48; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;14844
 6;-1462.8; 01-JAN-2005 03:11:30; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;14844
 7;-1209.1; 01-JAN-2005 03:15:43; Bright; 54.5; 111; 8Eta Boo ; 2.68; 6000;occ; 109; 0;14844
 8;-1007.7; 01-JAN-2005 03:19:05; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14844
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 11; -471.0; 01-JAN-2005 03:28:01; Dark ; 71.0; 15; 67Alp Vir ; 0.98; 28000;occ; 142; 0;14844
 12; -279.9; 01-JAN-2005 03:31:12; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;14844
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 18; 547.9; 01-JAN-2005 03:45:00; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14845
 19; 631.8; 01-JAN-2005 03:46:24; Dark ; 50.0; 71; Iot Car ; 2.25; 7700;occ; 100; 0;14845
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 22; 978.8; 01-JAN-2005 03:52:11; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;14845
 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
 29; 2089.8; 01-JAN-2005 04:10:42; Dark ; 71.0; 8; 10Alp CMi ; 0.40; 6500;occ; 142; 0;14845
 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
 34; 2690.8; 01-JAN-2005 04:20:43; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14845
 35; 2800.2; 01-JAN-2005 04:22:33; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;14845
 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
 38; 3590.6; 01-JAN-2005 04:35:43; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;14845

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 5;-1684.3; 01-JAN-2005 04:48:24; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;14845
 6;-1463.2; 01-JAN-2005 04:52:05; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14845
 7;-1209.2; 01-JAN-2005 04:56:19; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14845
 8;-1009.1; 01-JAN-2005 04:59:39; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;14845
 9; -840.6; 01-JAN-2005 05:02:28; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;14845
 10; -680.8; 01-JAN-2005 05:05:08; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;14845
 11; -470.2; 01-JAN-2005 05:08:38; Dark ; 83.5; 15; 67Alp Vir ; 0.98; 28000;occ; 167; 0;14845
 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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 16; 231.6; 01-JAN-2005 05:20:20; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;14846
 17; 401.7; 01-JAN-2005 05:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14846
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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
 28; 1880.6; 01-JAN-2005 05:47:49; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;14846

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29; 2088.8; 01-JAN-2005 05:51:17; Dark ; 74.5; 8; 10Alp CMi ; 0.40; 6500;occ; 149; 0;14846
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32; 2471.3; 01-JAN-2005 05:57:40; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14846
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37; 5033.4; 03-JAN-2005 00:35:20; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;14871
38; 5206.8; 03-JAN-2005 00:38:13; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;14871
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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
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9;	243.8;	03-JAN-2005	00:56:06;	Dark	;	52.0;	12;	Alp1Cru	;	0.77;	30000;occ;	104;	0;	14872
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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
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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
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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
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31;	3573.3;	03-JAN-2005	01:51:35;	Bright;	;	52.0;	36;	50Alp UMA	;	1.80;	6300;occ;	104;	0;	14872
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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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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
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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
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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
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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
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 18; 245.4; 03-JAN-2005 05:57:55; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 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
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 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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2; -5021.4; 11-JAN-2005 18:43:49; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;14997
3; -4918.4; 11-JAN-2005 18:45:32; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;14997
4; -4813.6; 11-JAN-2005 18:47:16; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;14997
5; -4657.7; 11-JAN-2005 18:49:52; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;14997
6; -4571.2; 11-JAN-2005 18:51:19; Dark ; 43.0; 179; 240mi2CMA ; 3.03; 24000;occ; 86; 0;14997
7; -4434.8; 11-JAN-2005 18:53:35; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;14997
8; -4241.3; 11-JAN-2005 18:56:49; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;14997
9; -4138.9; 11-JAN-2005 18:58:31; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;14997
10; -4002.5; 11-JAN-2005 19:00:48; Dark ; 48.0; 14; 58Alp Ori ; 0.87; 3000;occ; 96; 0;14997
11; -3844.3; 11-JAN-2005 19:03:26; Dark ; 46.0; 44; 24Gam Gem ; 1.93; 11000;occ; 92; 0;14997
12; -3742.4; 11-JAN-2005 19:05:08; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;14997
13; -3638.3; 11-JAN-2005 19:06:52; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;14997
14; -3548.2; 11-JAN-2005 19:08:22; Bright; 40.0; 114; 3Iot Aur ; 2.69; 4600;occ; 80; 0;14997
15; -3362.7; 11-JAN-2005 19:11:27; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;14997
16; -3237.5; 11-JAN-2005 19:13:33; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;14997
17; -2612.4; 11-JAN-2005 19:23:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;14997
18; -2521.7; 11-JAN-2005 19:25:28; Bright; 53.5; 82; 48Bet UMa ; 2.37; 10600;occ; 107; 0;14997
19; -2366.0; 11-JAN-2005 19:28:04; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;14997
20; -2202.3; 11-JAN-2005 19:30:48; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;14997
21; -1965.2; 11-JAN-2005 19:34:45; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;14997
22; -1783.5; 11-JAN-2005 19:37:47; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;14997
23; -1682.4; 11-JAN-2005 19:39:28; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;14997
24; -1425.0; 11-JAN-2005 19:43:45; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;14997
25; -1303.4; 11-JAN-2005 19:45:47; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;14997
26; -1092.5; 11-JAN-2005 19:49:18; Dark ; 84.5; 111; 8Eta Boo ; 2.68; 6000;occ; 169; 0;14997
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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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
8; -872.8; 12-JAN-2005 07:37:09; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;15004
9; -749.8; 12-JAN-2005 07:39:12; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;15004
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24; 2671.4; 12-JAN-2005 23:41:36; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;15014
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 14;-1965.1; 12-JAN-2005 14:01:20; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;15008
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 26; 264.1; 12-JAN-2005 14:38:29; Dark ; 46.0; 20; Bet Cru ; 1.25; 30000;occ; 92; 0;15009
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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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 17;-1683.0; 12-JAN-2005 15:46:38; Bright; 48.5; 180; 27Gam Boo ; 3.04; 8000;occ; 97; 0;15009
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