

GOMOS Daily Report 10-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	12JAN2005 05:08:10

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (10JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

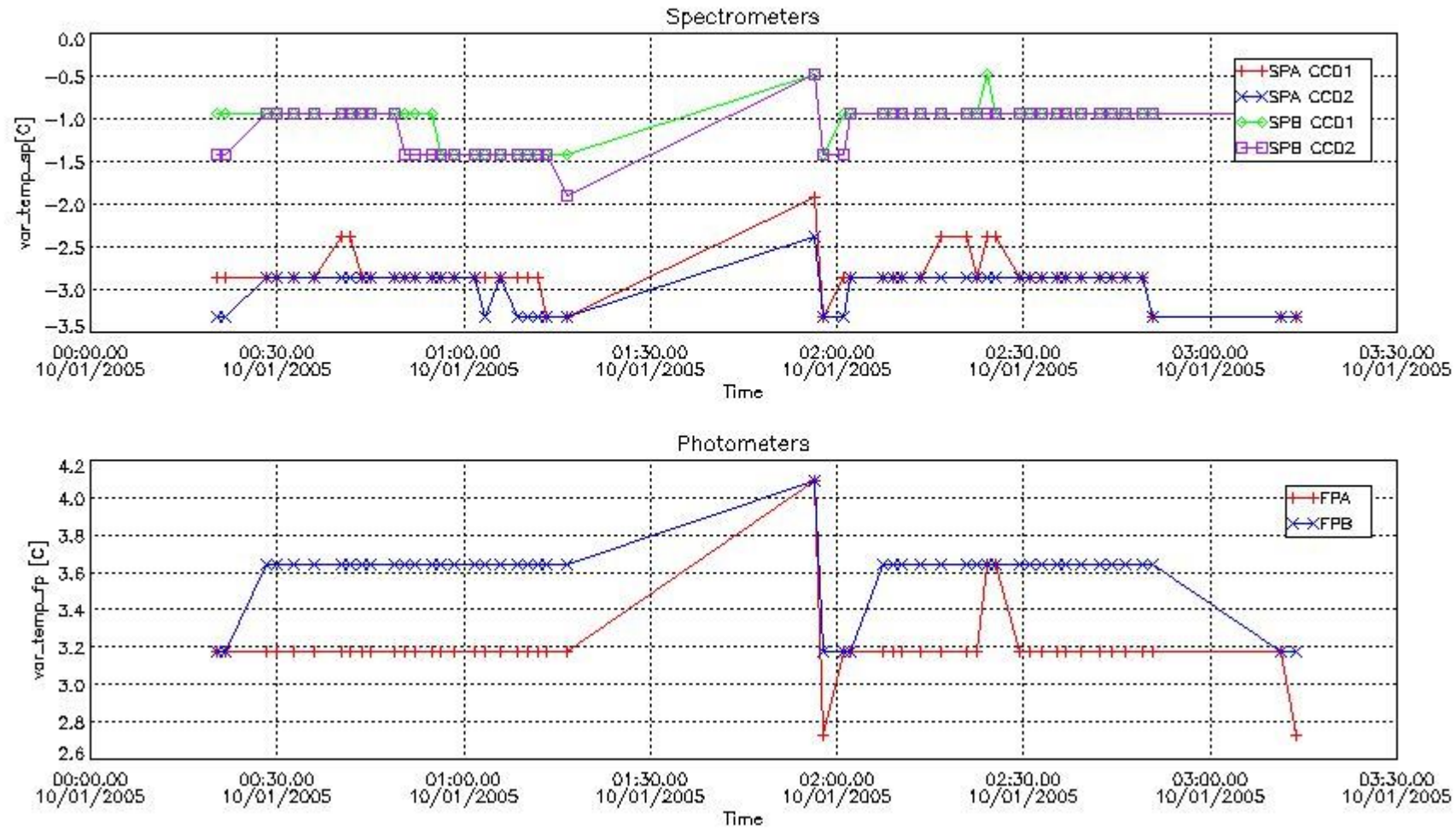
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20050110_002021_000000462033_00388_14971_0000.N1	10-JAN-2005 00:20:21	Twilight	46.000	97	8Bet1Sco	2.5610	30000.	92	14971	No
2	GOM_TRA_1PNPDE20050110_002140_000000482033_00388_14971_0001.N1	10-JAN-2005 00:21:40	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	14971	No
3	GOM_TRA_1PNPDE20050110_002819_000000422033_00388_14971_0002.N1	10-JAN-2005 00:28:19	Dark	42.000	109	Bet Lup	2.6770	26000.	84	14971	No
4	GOM_TRA_1PNPDE20050110_002950_000000422033_00388_14971_0003.N1	10-JAN-2005 00:29:50	Dark	42.000	78	Alp Lup	2.3040	28000.	84	14971	No
5	GOM_TRA_1PNPDE20050110_003241_000000522033_00389_14972_0004.N1	10-JAN-2005 00:32:41	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	14972	No
6	GOM_TRA_1PNPDE20050110_003557_000000422033_00389_14972_0005.N1	10-JAN-2005 00:35:57	Dark	41.500	20	Bet Cru	1.2530	30000.	83	14972	No
7	GOM_TRA_1PNPDE20050110_004013_000000392033_00389_14972_0006.N1	10-JAN-2005 00:40:13	Dark	39.000	124	The Car	2.7640	30000.	78	14972	No
8	GOM_TRA_1PNPDE20050110_004148_000000392033_00389_14972_0007.N1	10-JAN-2005 00:41:48	Dark	38.500	29	Bet Car	1.6720	10200.	77	14972	No
9	GOM_TRA_1PNPDE20050110_004333_000000462033_00389_14972_0008.N1	10-JAN-2005 00:43:33	Dark	45.500	71	Iot Car	2.2460	7700.0	91	14972	No
10	GOM_TRA_1PNPDE20050110_004455_000000522033_00389_14972_0009.N1	10-JAN-2005 00:44:55	Dark	52.000	41	Eps Car	1.8600	4100.0	104	14972	No
11	GOM_TRA_1PNPDE20050110_004845_000000442033_00389_14972_0010.N1	10-JAN-2005 00:48:45	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	14972	No
12	GOM_TRA_1PNPDE20050110_005023_000000452033_00389_14972_0011.N1	10-JAN-2005 00:50:23	Dark	44.500	70	Zet Pup	2.2460	39000.	89	14972	No
13	GOM_TRA_1PNPDE20050110_005211_000000452033_00389_14972_0012.N1	10-JAN-2005 00:52:11	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	14972	No
14	GOM_TRA_1PNPDE20050110_005448_000000472033_00389_14972_0013.N1	10-JAN-2005 00:54:48	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	14972	No
15	GOM_TRA_1PNPDE20050110_005615_000000452033_00389_14972_0014.N1	10-JAN-2005 00:56:15	Twilight	44.500	179	24Omi2CMa	3.0320	24000.	89	14972	No
16	GOM_TRA_1PNPDE20050110_005833_000000522033_00389_14972_0015.N1	10-JAN-2005 00:58:33	Twilight	52.000	1	9Alp CMa	-1.4400	11000.	104	14972	No
17	GOM_TRA_1PNPDE20050110_010145_000000452033_00389_14972_0016.N1	10-JAN-2005 01:01:45	Bright	45.000	7	19Bet Ori	0.10000	14000.	90	14972	No
18	GOM_TRA_1PNPDE20050110_010328_000000432033_00389_14972_0017.N1	10-JAN-2005 01:03:28	Bright	43.000	30	46Eps Ori	1.6940	30000.	86	14972	No
19	GOM_TRA_1PNPDE20050110_010549_000000622033_00389_14972_0018.N1	10-JAN-2005 01:05:49	Bright	62.000	8	10Alp CMi	0.40000	6500.0	124	14972	No
20	GOM_TRA_1PNPDE20050110_010831_000000462033_00389_14972_0019.N1	10-JAN-2005 01:08:31	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	14972	No
21	GOM_TRA_1PNPDE20050110_011012_000000452033_00389_14972_0020.N1	10-JAN-2005 01:10:12	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	14972	No
22	GOM_TRA_1PNPDE20050110_011150_000000382033_00389_14972_0021.N1	10-JAN-2005 01:11:50	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	14972	No
23	GOM_TRA_1PNPDE20050110_011318_000000392033_00389_14972_0022.N1	10-JAN-2005 01:13:18	Bright	38.500	114	3Iot Aur	2.6930	4600.0	77	14972	No
24	GOM_TRA_1PNPDE20050110_011631_000000392033_00389_14972_0023.N1	10-JAN-2005 01:16:31	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	14972	No
25	GOM_TRA_1PNPDE20050110_015622_000000542033_00389_14972_0000.N1	10-JAN-2005 01:56:22	Twilight	54.000	120	1Del Oph	2.7340	3200.0	108	14972	Yes
26	GOM_TRA_1PNPDE20050110_015749_000000382033_00389_14972_0001.N1	10-JAN-2005 01:57:49	Twilight	38.000	98	13Zet Oph	2.5710	30000.	76	14972	No
27	GOM_TRA_1PNPDE20050110_020057_000000472033_00389_14972_0002.N1	10-JAN-2005 02:00:57	Twilight	46.500	97	8Bet1Sco	2.5610	30000.	93	14972	No
28	GOM_TRA_1PNPDE20050110_020217_000000522033_00389_14972_0003.N1	10-JAN-2005 02:02:17	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	14972	No
29	GOM_TRA_1PNPDE20050110_020720_000000402033_00389_14972_0004.N1	10-JAN-2005 02:07:20	Twilight	40.000	131	Gam Lup	2.8000	26000.	80	14972	No
30	GOM_TRA_1PNPDE20050110_020853_000000452033_00389_14972_0005.N1	10-JAN-2005 02:08:53	Dark	45.000	109	Bet Lup	2.6770	26000.	90	14972	No
31	GOM_TRA_1PNPDE20050110_021026_000000442033_00389_14972_0006.N1	10-JAN-2005 02:10:26	Dark	44.000	78	Alp Lup	2.3040	28000.	88	14972	No
32	GOM_TRA_1PNPDE20050110_021317_000000412033_00390_14973_0007.N1	10-JAN-2005 02:13:17	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	14973	No
33	GOM_TRA_1PNPDE20050110_021634_000000442033_00390_14973_0008.N1	10-JAN-2005 02:16:34	Dark	43.500	20	Bet Cru	1.2530	30000.	87	14973	No
34	GOM_TRA_1PNPDE20050110_022050_000000392033_00390_14973_0009.N1	10-JAN-2005 02:20:50	Dark	39.000	124	The Car	2.7640	30000.	78	14973	No
35	GOM_TRA_1PNPDE20050110_022224_000000382033_00390_14973_0010.N1	10-JAN-2005 02:22:24	Dark	38.000	29	Bet Car	1.6720	10200.	76	14973	No
36	GOM_TRA_1PNPDE20050110_022408_000000412033_00390_14973_0011.N1	10-JAN-2005 02:24:08	Dark	41.000	71	Iot Car	2.2460	7700.0	82	14973	No
37	GOM_TRA_1PNPDE20050110_022531_000000542033_00390_14973_0012.N1	10-JAN-2005 02:25:31	Dark	54.000	41	Eps Car	1.8600	4100.0	108	14973	No
38	GOM_TRA_1PNPDE20050110_022921_000000522033_00390_14973_0013.N1	10-JAN-2005 02:29:21	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	14973	No
39	GOM_TRA_1PNPDE20050110_023059_000000432033_00390_14973_0014.N1	10-JAN-2005 02:30:59	Dark	43.000	70	Zet Pup	2.2460	39000.	86	14973	No
40	GOM_TRA_1PNPDE20050110_023247_000000442033_00390_14973_0015.N1	10-JAN-2005 02:32:47	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	14973	No
41	GOM_TRA_1PNPDE20050110_023524_000000472033_00390_14973_0016.N1	10-JAN-2005 02:35:24	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	14973	No
42	GOM_TRA_1PNPDE20050110_023651_000000432033_00390_14973_0017.N1	10-JAN-2005 02:36:51	Twilight	43.000	179	24Omi2CMa	3.0320	24000.	86	14973	No
43	GOM_TRA_1PNPDE20050110_023908_000000482033_00390_14973_0018.N1	10-JAN-2005 02:39:08	Twilight	48.000	1	9Alp CMa	-1.4400	11000.	96	14973	No
44	GOM_TRA_1PNPDE20050110_024221_000000522033_00390_14973_0019.N1	10-JAN-2005 02:42:21	Bright	52.000	7	19Bet Ori	0.10000	14000.	104	14973	No
45	GOM_TRA_1PNPDE20050110_024404_000000452033_00390_14973_0020.N1	10-JAN-2005 02:44:04	Bright	45.000	30	46Eps Ori	1.6940	30000.	90	14973	No
46	GOM_TRA_1PNPDE20050110_024624_000000622033_00390_14973_0021.N1	10-JAN-2005 02:46:24	Bright	61.500	8	10Alp CMi	0.40000	6500.0	123	14973	No

47	GOM_TRA_1PNPDE20050110_024907_000000492033_00390_14973_0022.N1	10-JAN-2005 02:49:07	Bright	48.500	44	24Gam Gem	1.9280	11000.	97	14973	No
48	GOM_TRA_1PNPDE20050110_025047_000000522033_00390_14973_0023.N1	10-JAN-2005 02:50:47	Bright	51.500	151	13Mu Gem	2.8900	3000.0	103	14973	No
49	GOM_TRA_1PNPDE20050110_031128_000000542033_00390_14973_0000.N1	10-JAN-2005 03:11:28	Bright	54.000	82	48Bet UMa	2.3650	10600.	108	14973	No
50	GOM_TRA_1PNPDE20050110_031345_000000412033_00390_14973_0001.N1	10-JAN-2005 03:13:45	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	14973	No

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



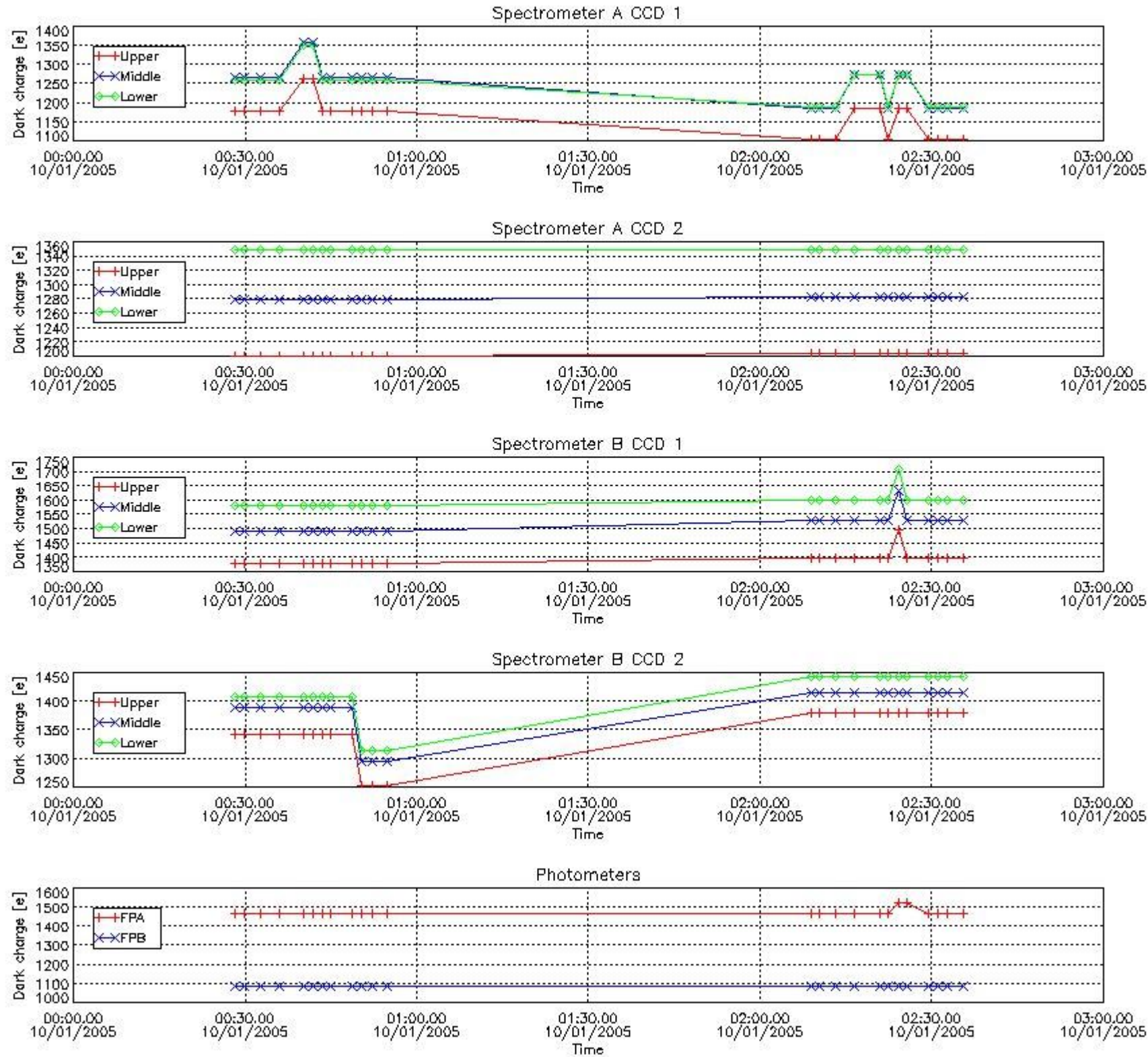
4. Overview of dark signal processing per product

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



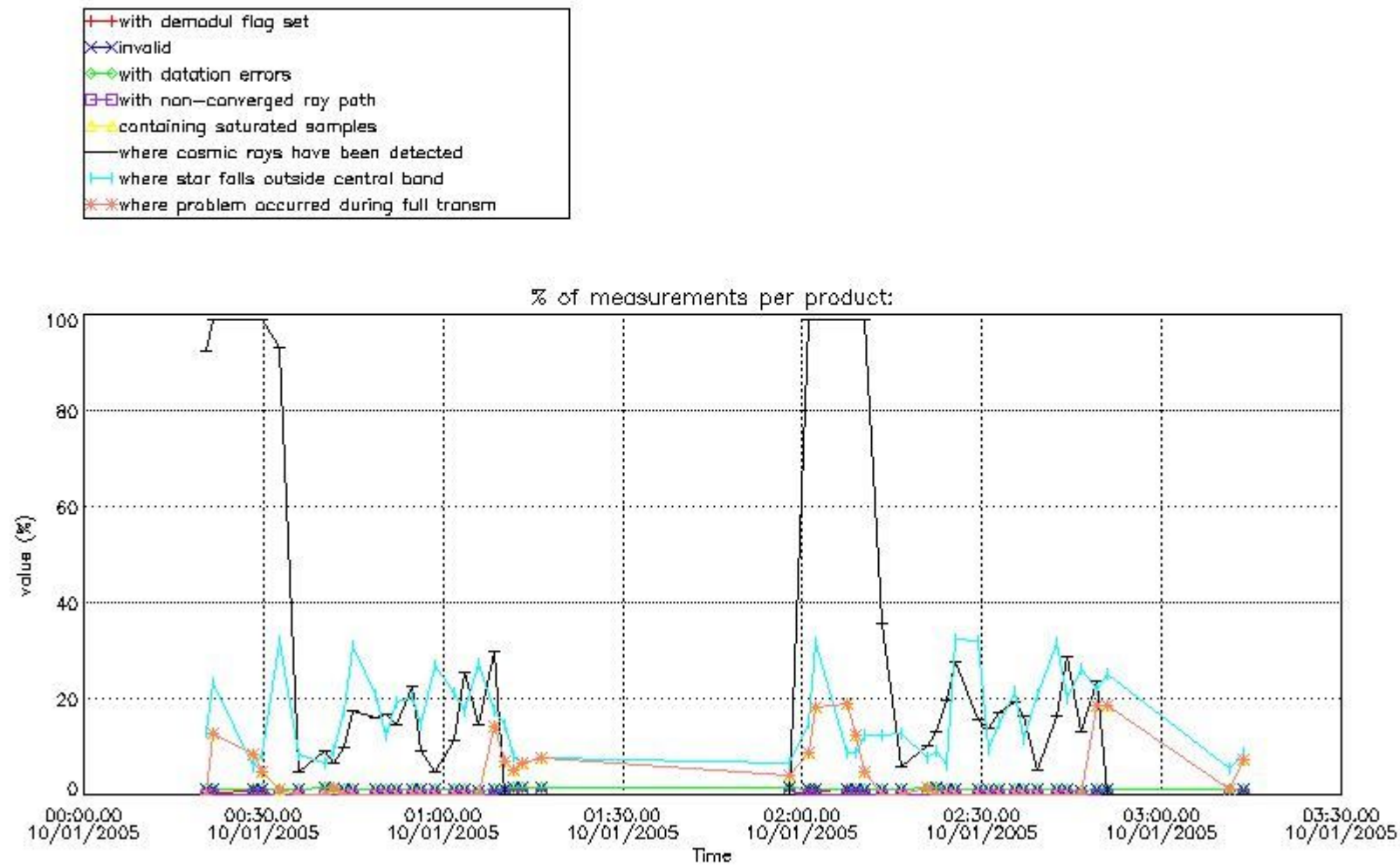
5. Demodulation flag and quality information monitoring

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.

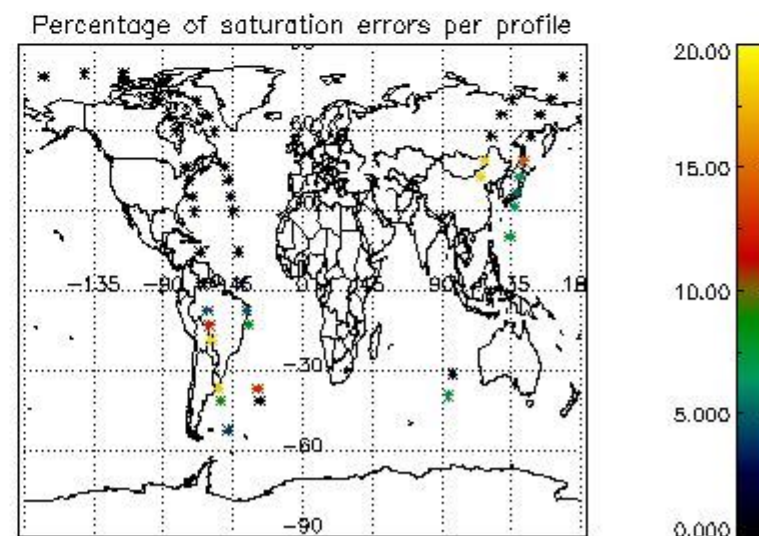
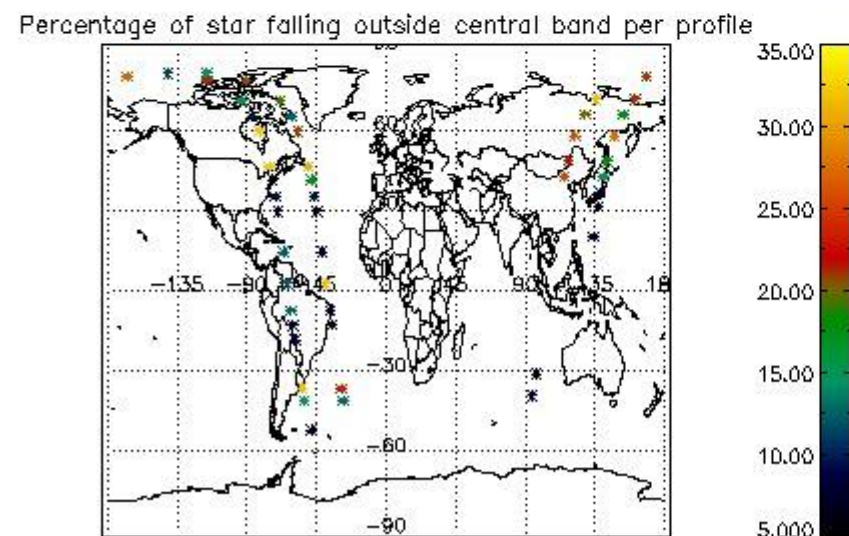
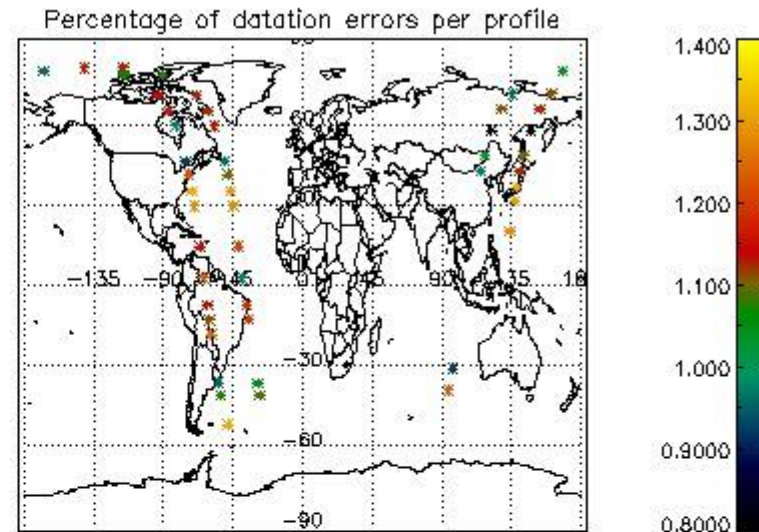
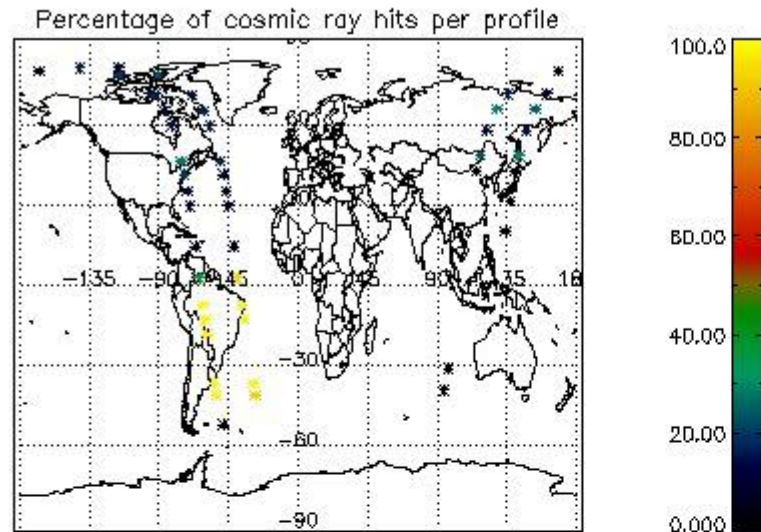
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
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)



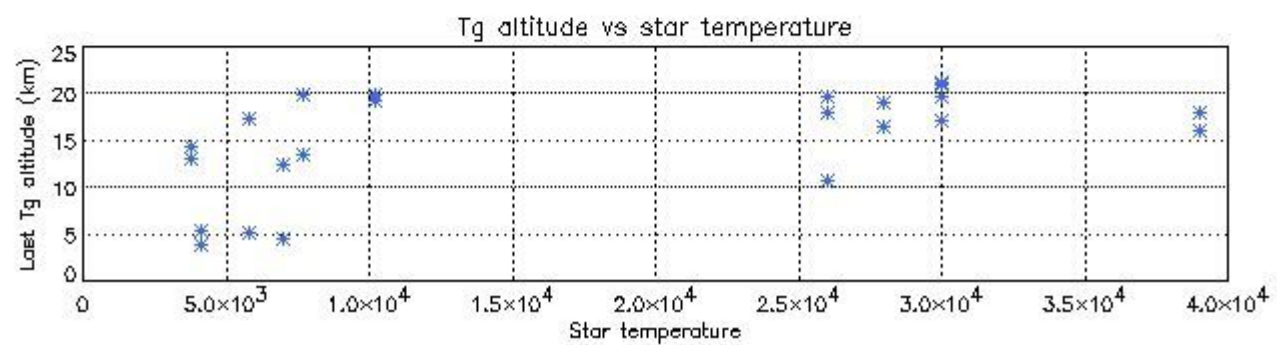
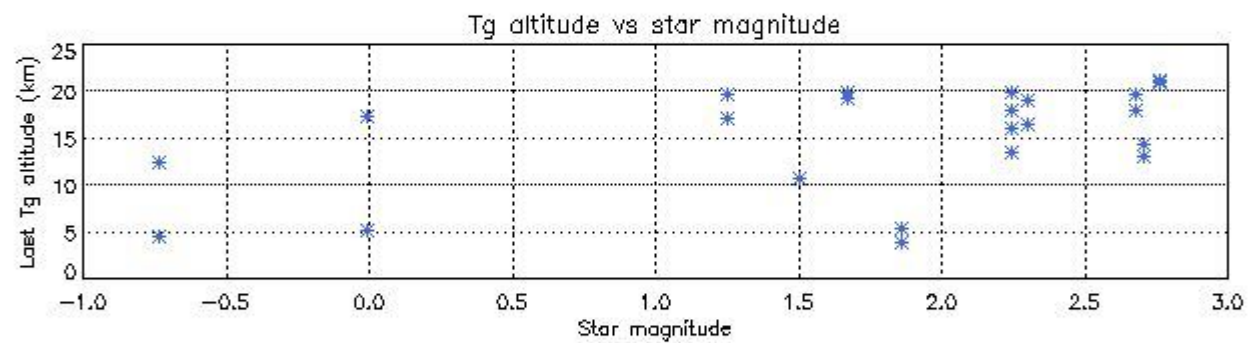
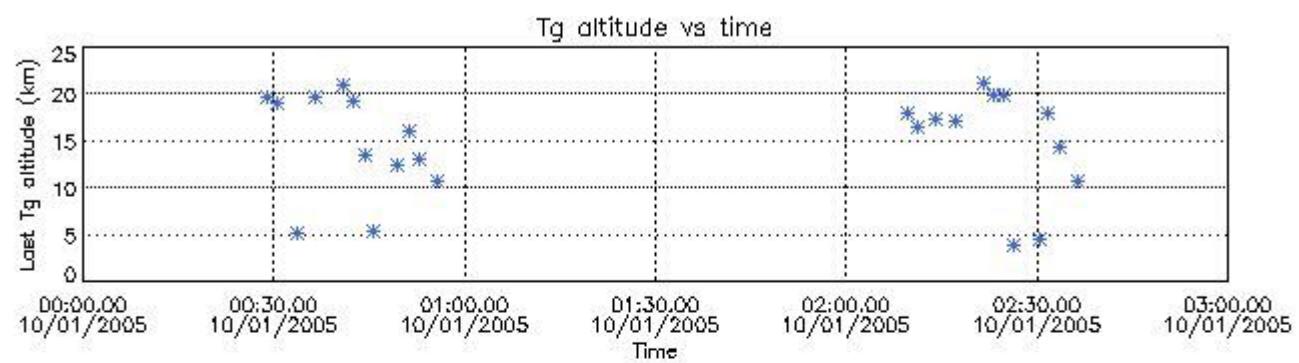
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.817	13.320	12.779
St. deviation:	5.5088	4.9557	4.7989
Maximum:	21.086	21.518	20.462
Minimum:	3.9309	5.4880	4.9211
Number of data:	24.000	15.000	10.000

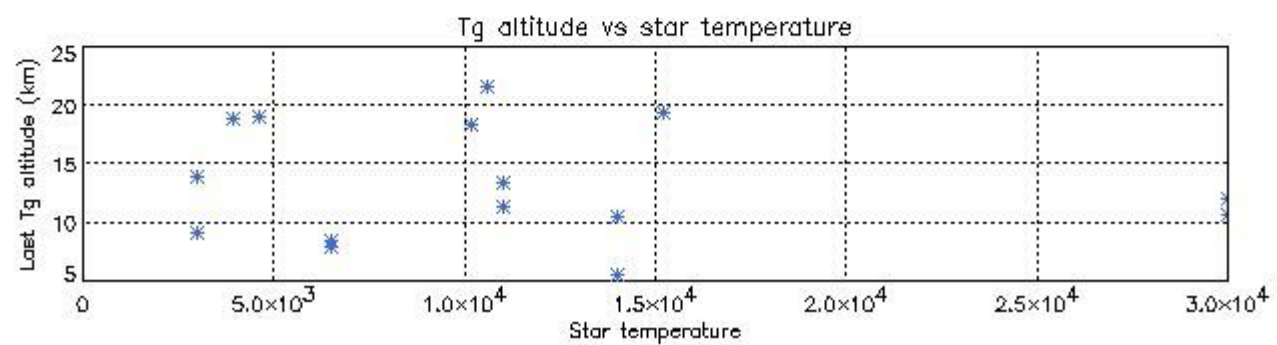
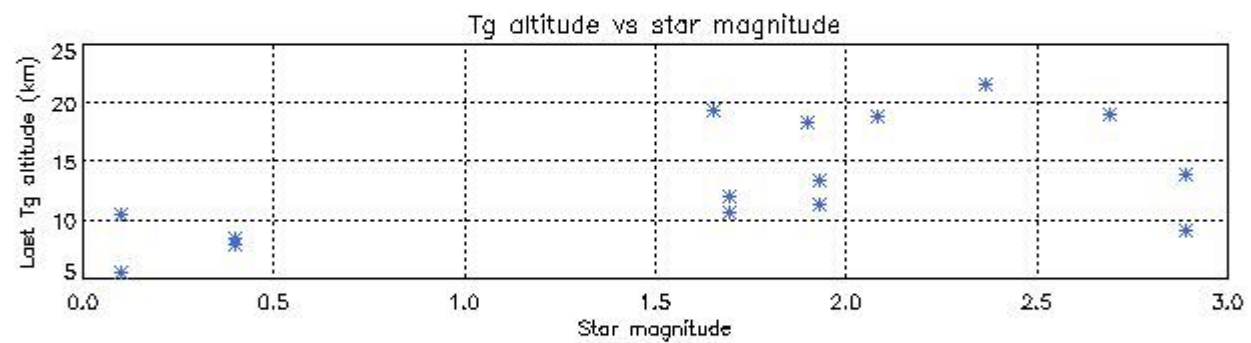
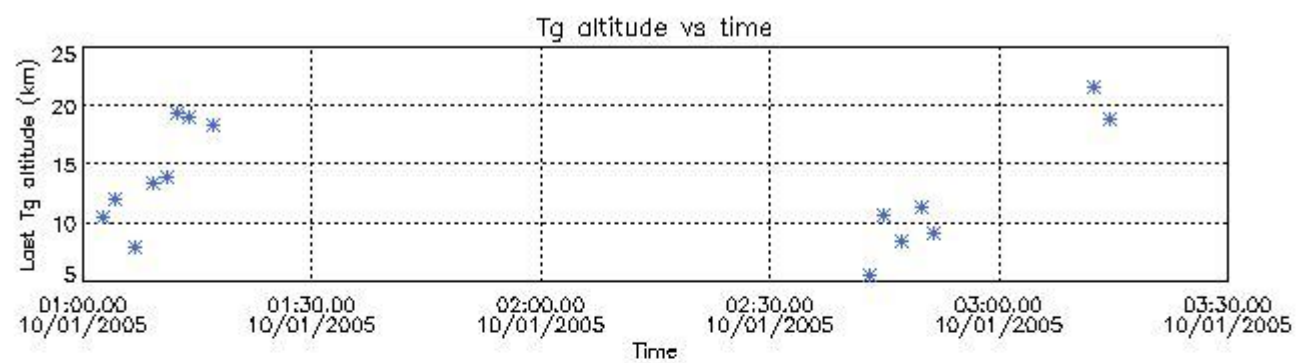
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



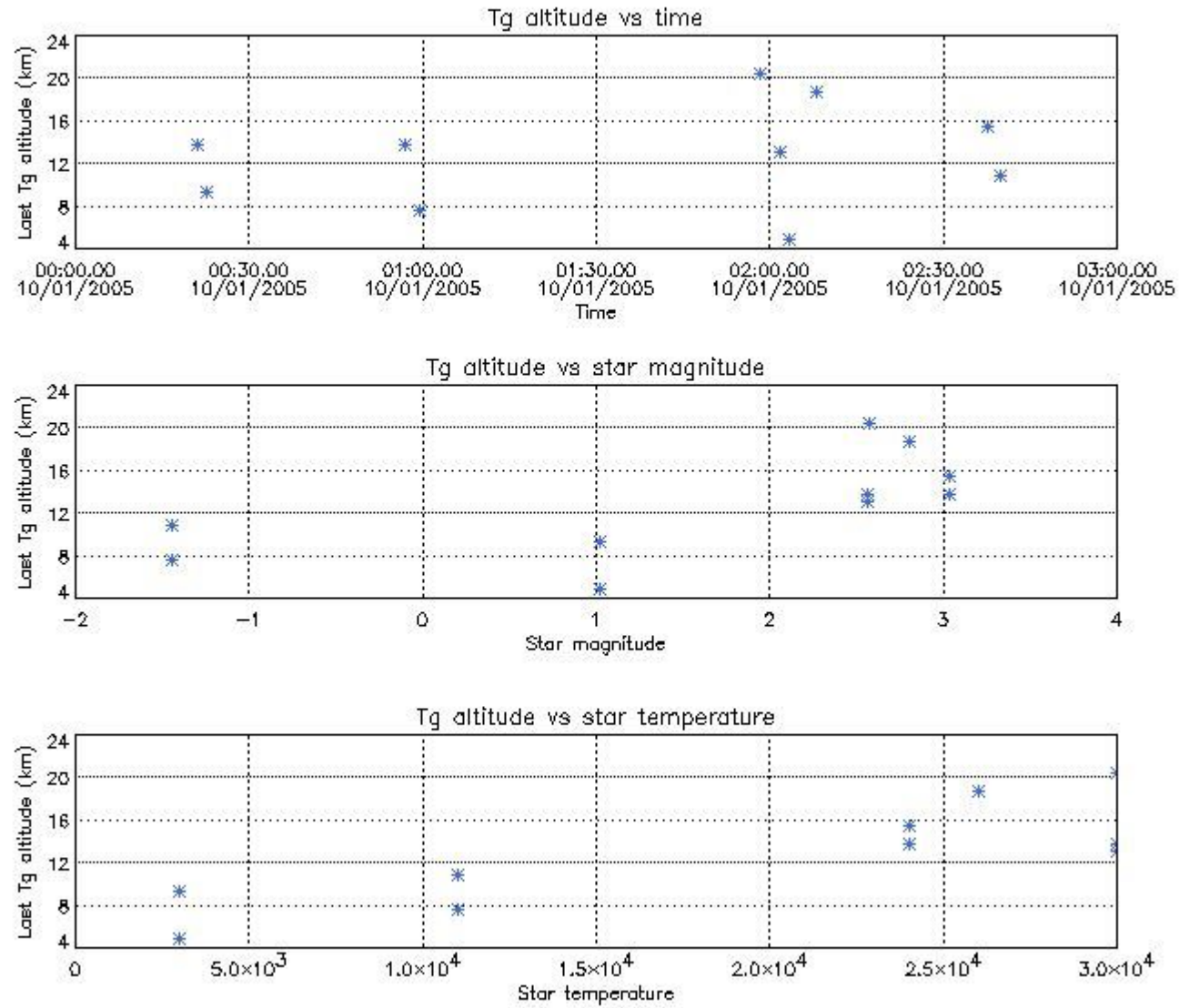
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



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

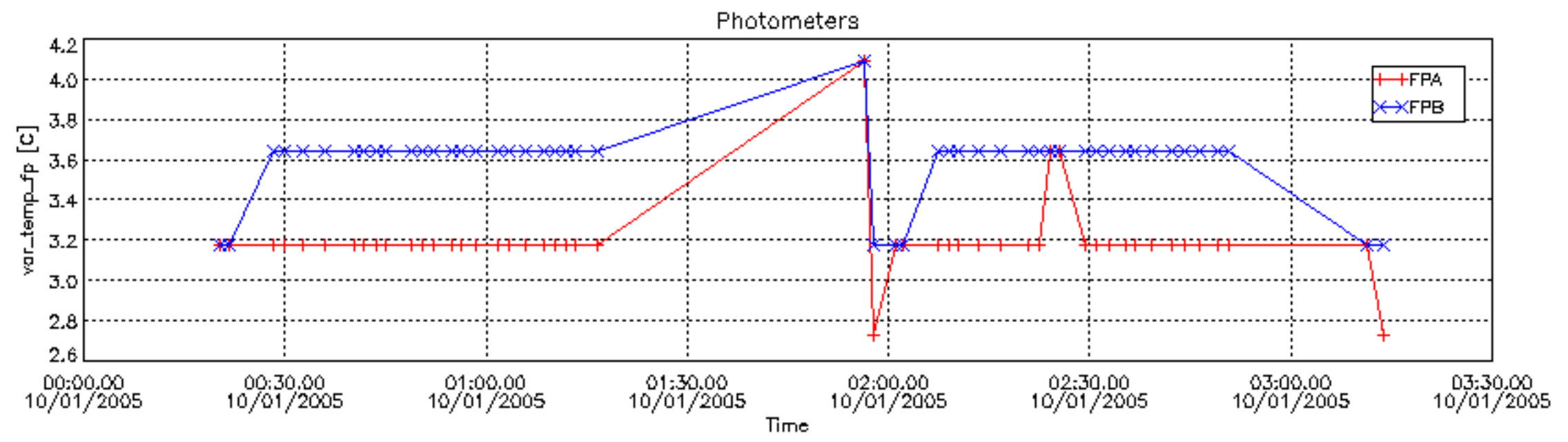
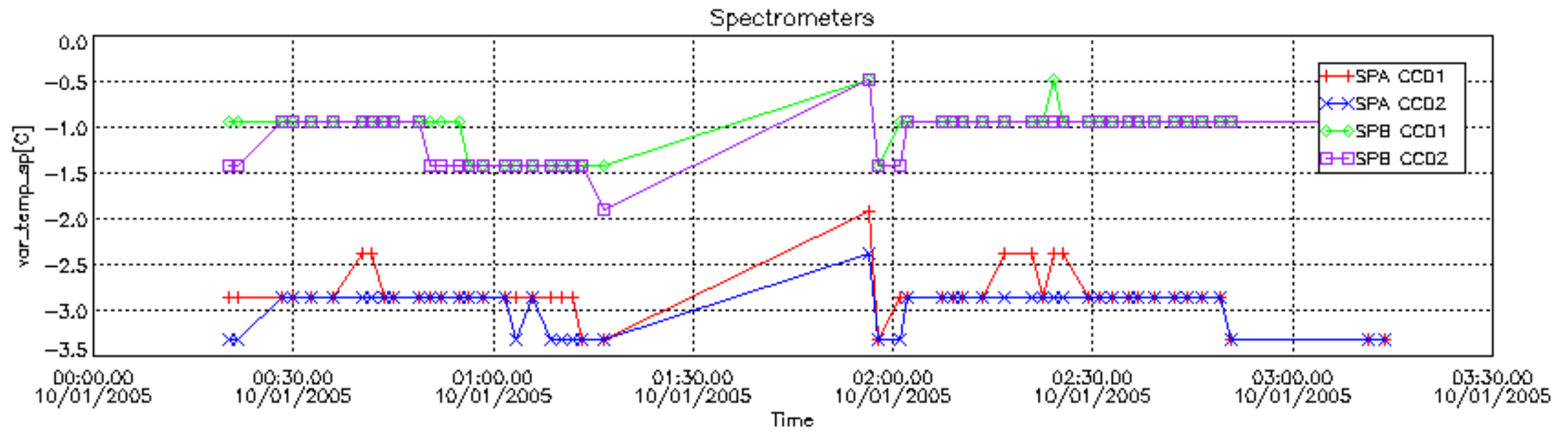
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

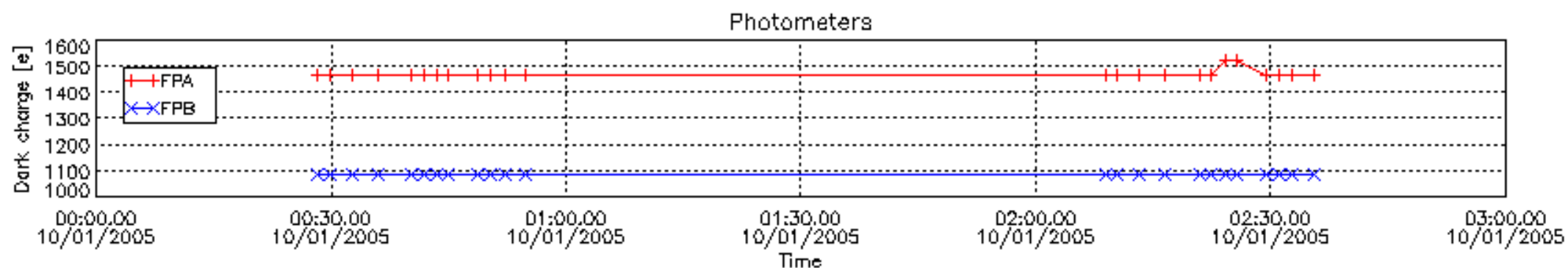
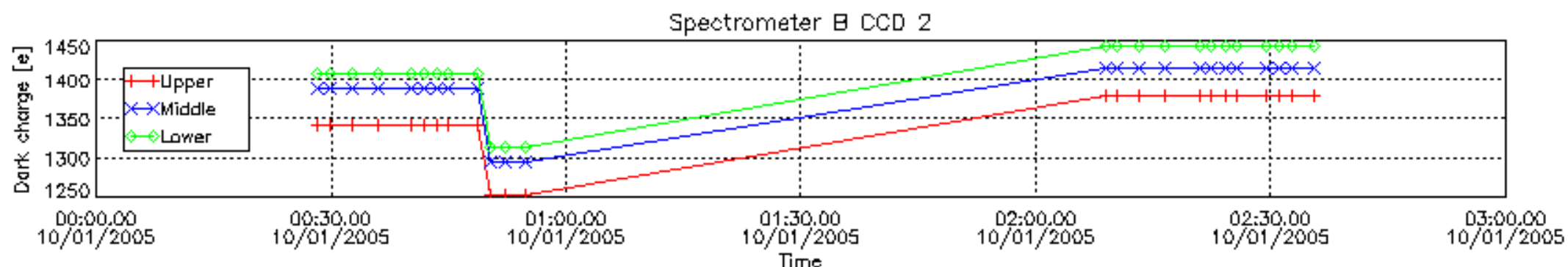
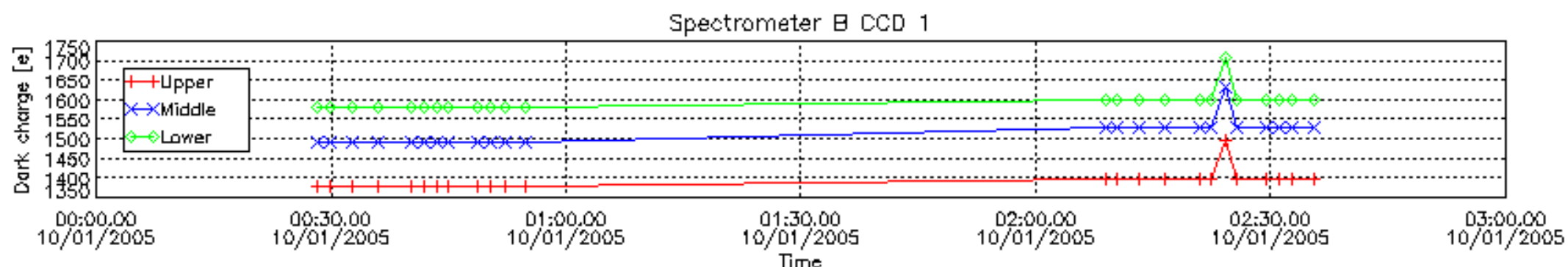
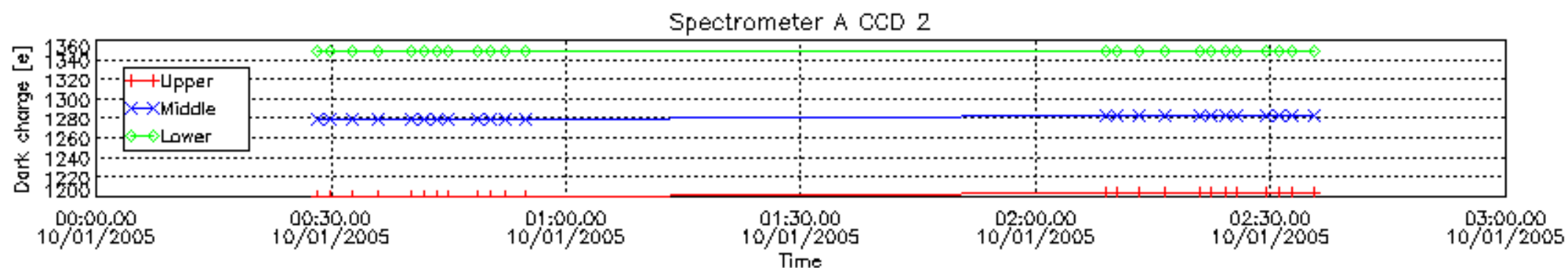
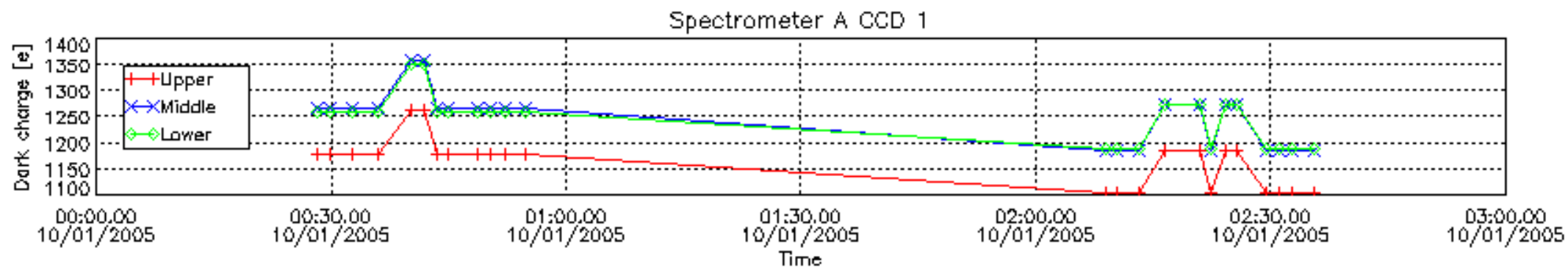
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1447.1	1461.8	1447.7
St. deviation:	5.3189	6.6685	4.1122	5.3168
Maximum:	1575.0	1575.0	1499.0	1486.0
Minimum:	1447.0	1434.0	1444.0	1439.0
Number of data:	25150.	25150.	15950.	15950.

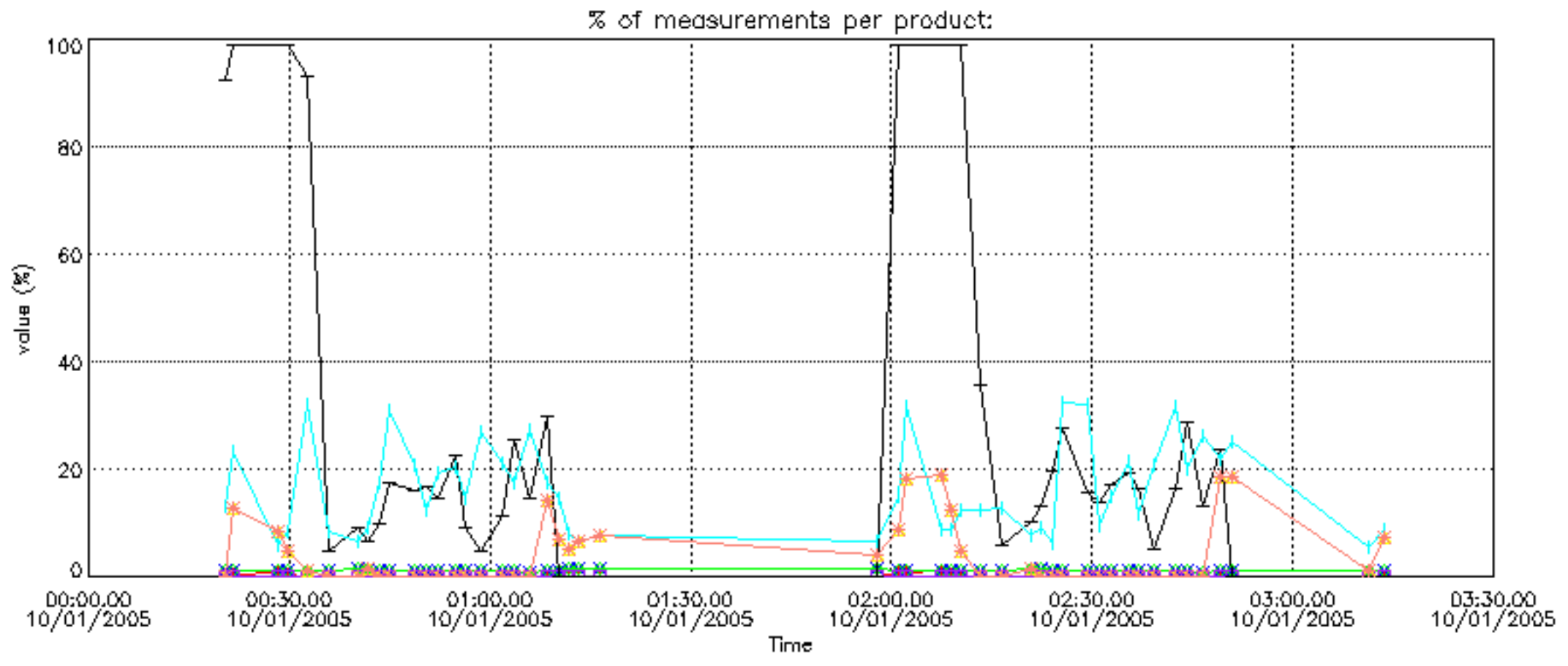
8. Auxiliary Data Files used for the production reported in section 2.2

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.

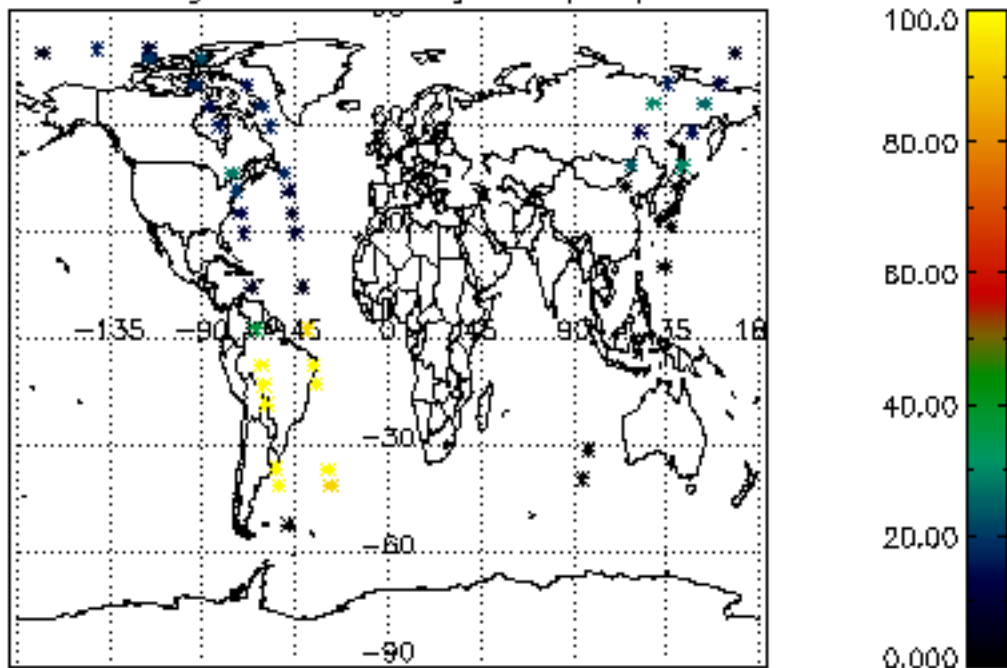
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	10-JAN-2005 00:20:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	10-JAN-2005 00:20:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	10-JAN-2005 00:20:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JAN-2005 00:20:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	10-JAN-2005 00:20:21
ECMWF_FILE	AUX_ECF_AXNECM20050109_061037_20050109_210000_20050110_090000	1	10-JAN-2005 00:20:21
ECMWF_FILE	AUX_ECF_AXNECM20050109_193037_20050110_030000_20050110_150000	49	10-JAN-2005 03:11:28
OPTIONAL_ECMWF_FILE	NOT USED	1	10-JAN-2005 00:20:21
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050109_224012_20050109_193008_20050119_205624	1	10-JAN-2005 00:20:21



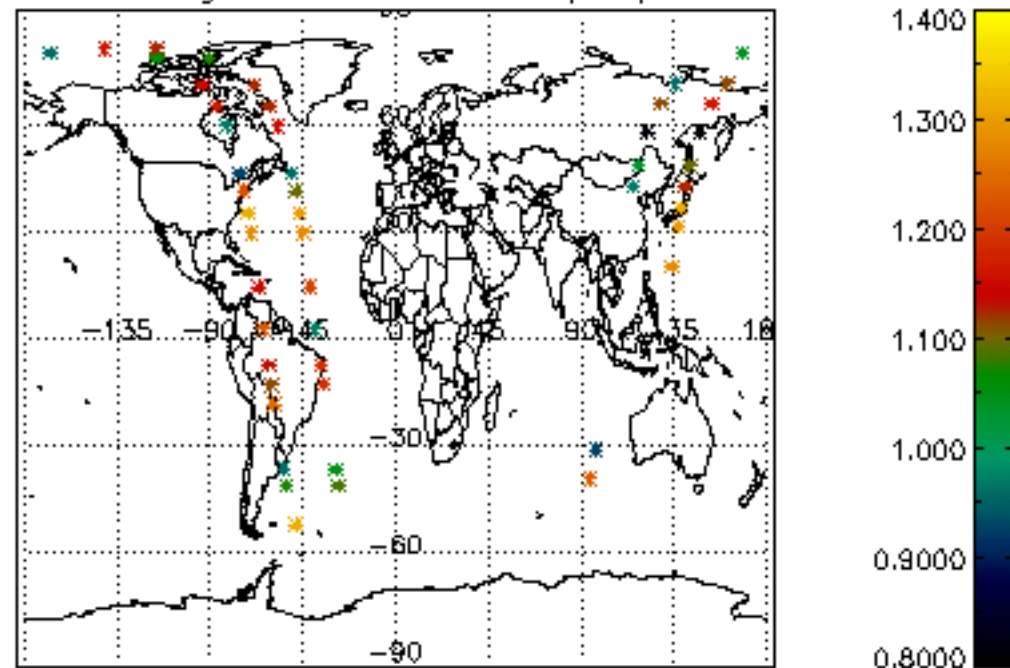




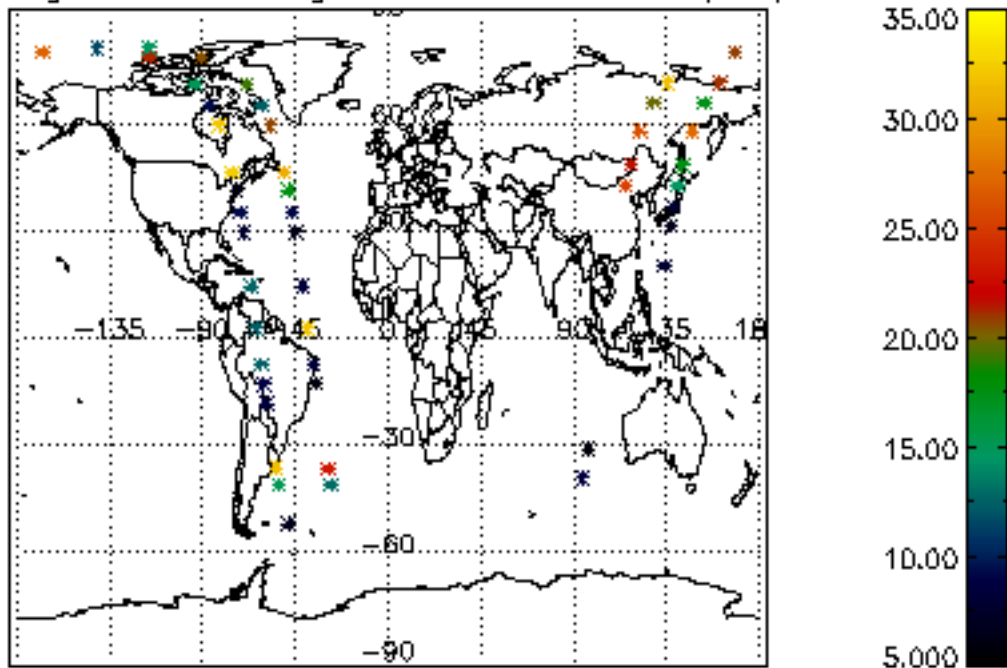
Percentage of cosmic ray hits per profile



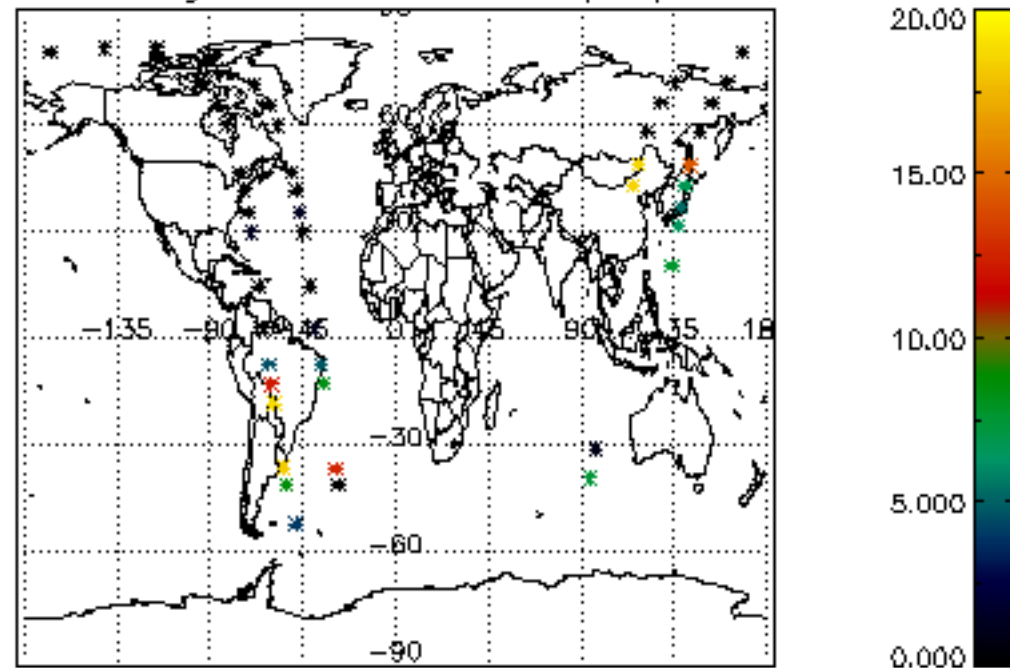
Percentage of datation errors per profile



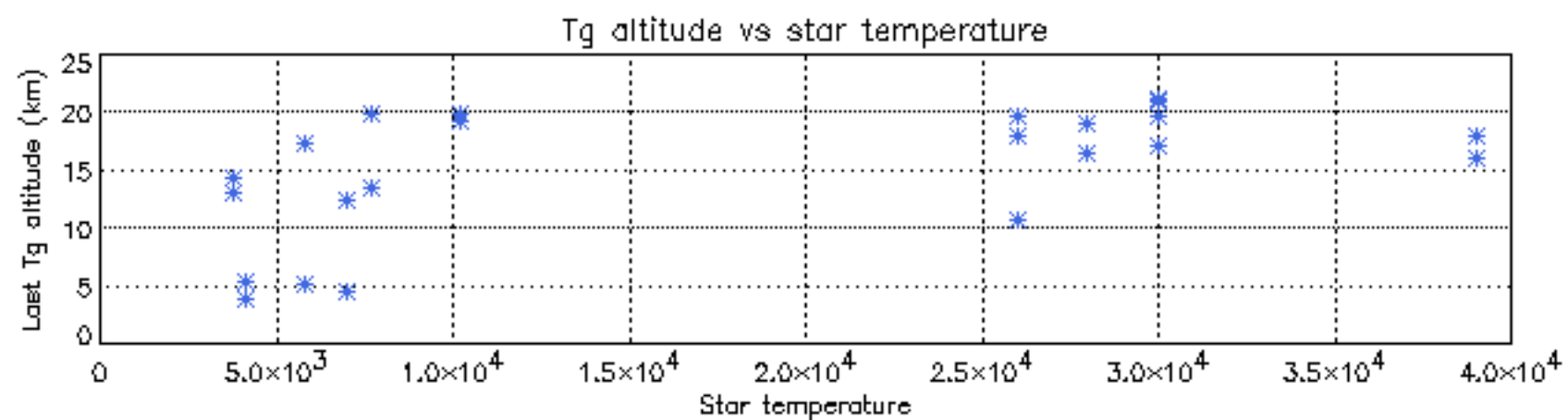
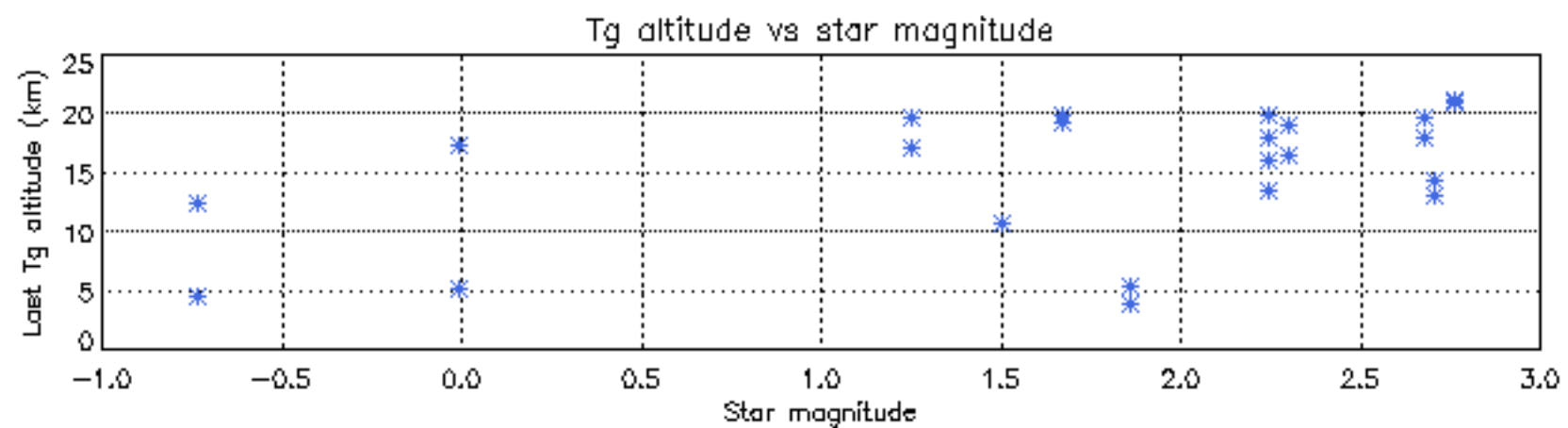
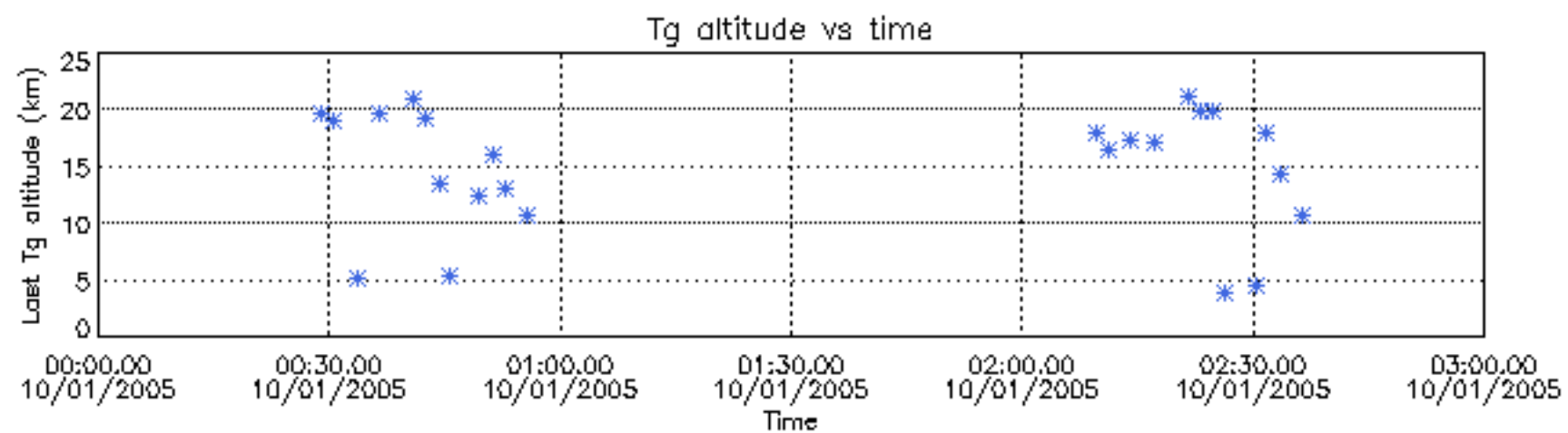
Percentage of star falling outside central band per profile



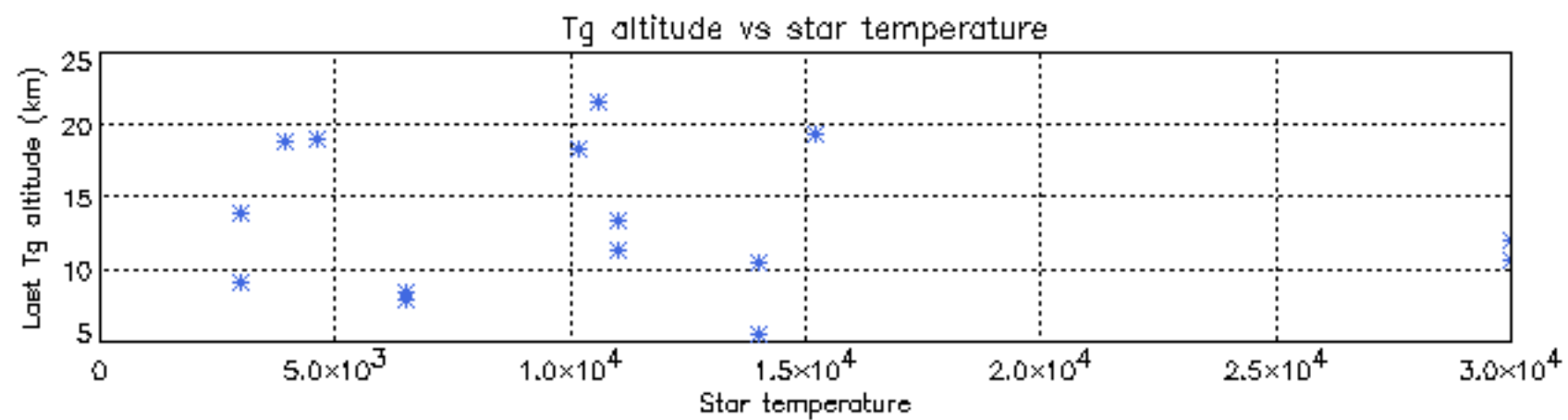
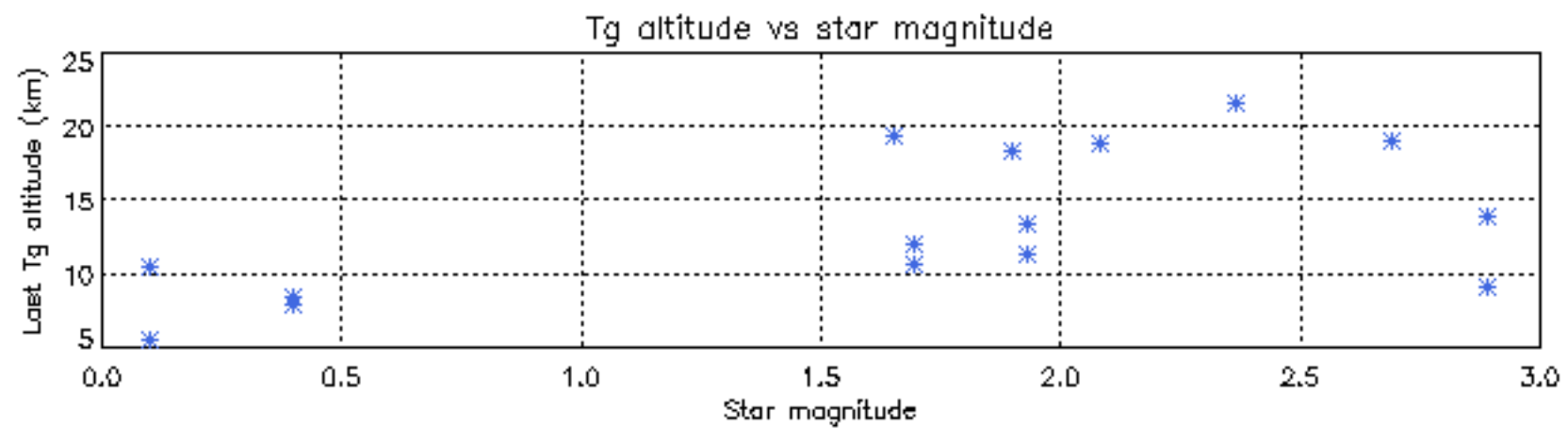
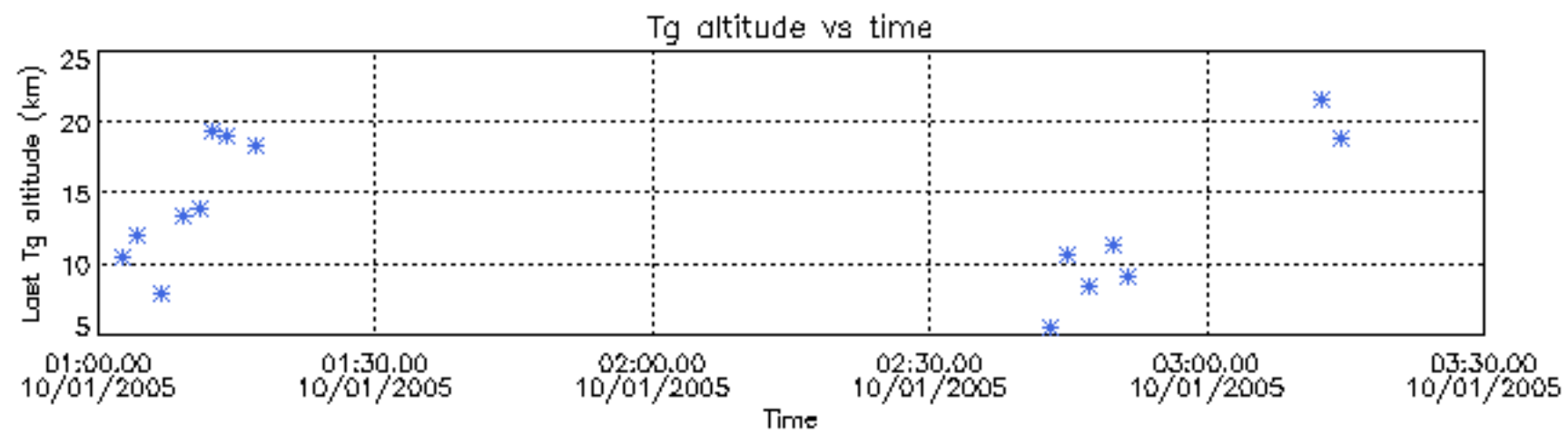
Percentage of saturation errors per profile



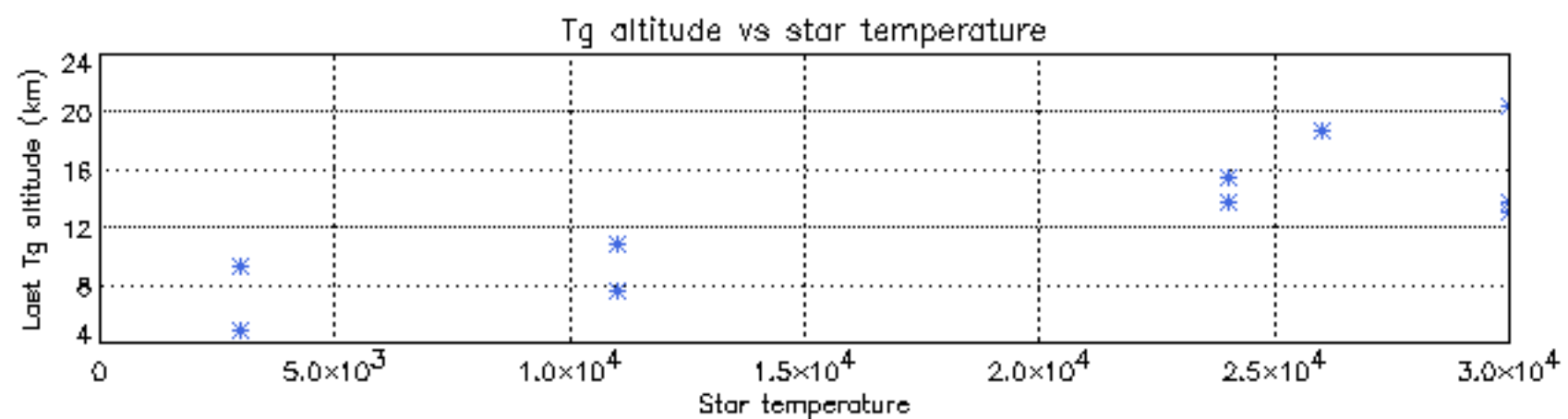
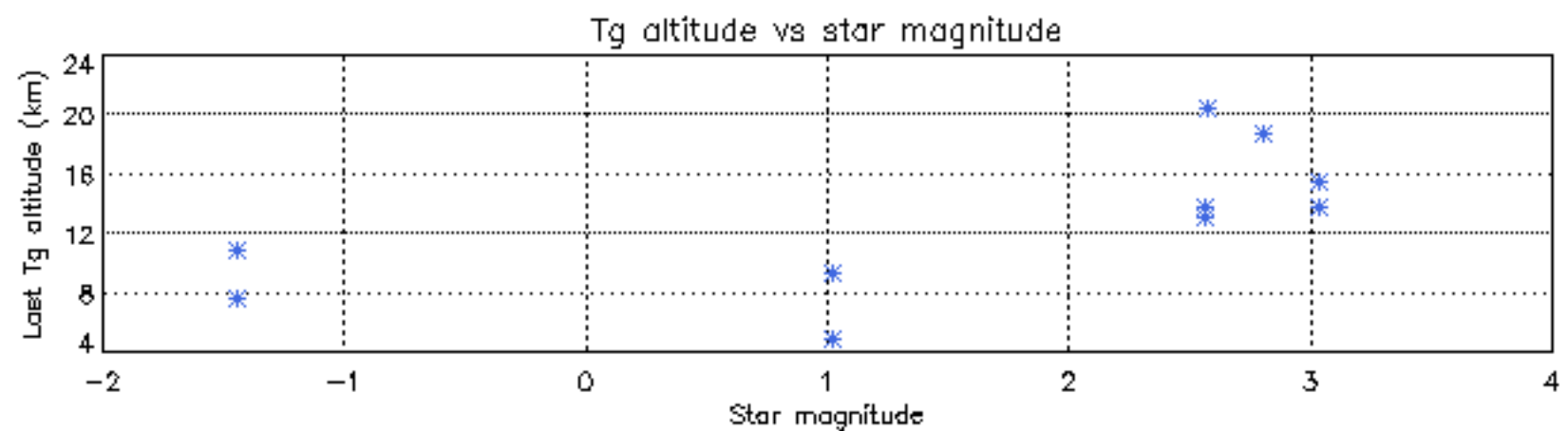
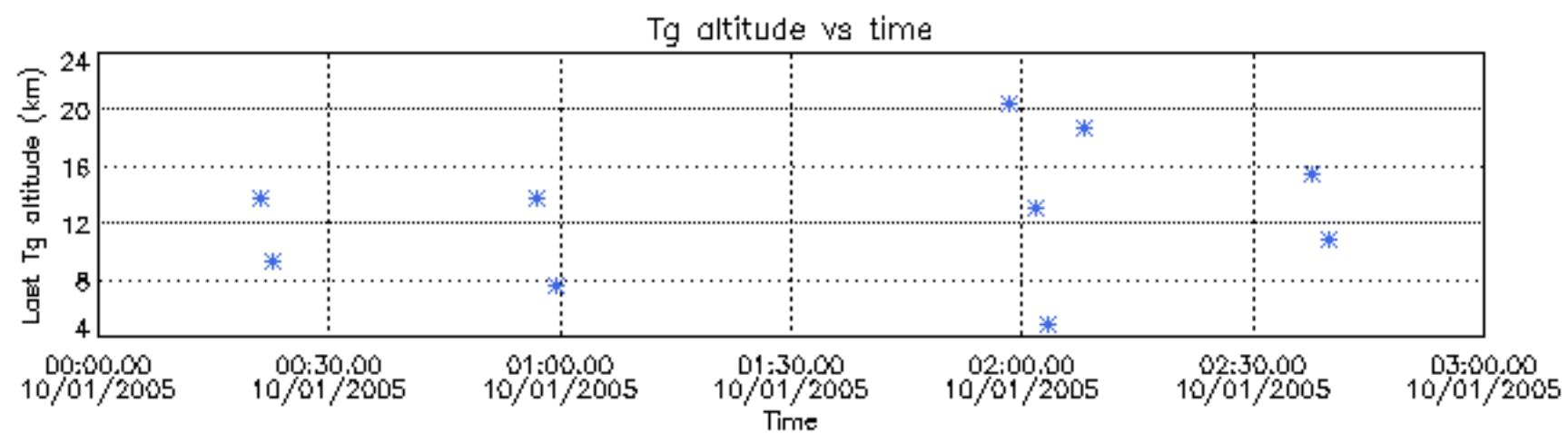
Tangent altitude at which the star is lost



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
 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
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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
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 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
 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
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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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 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
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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
 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
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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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 13; -191.3; 01-JAN-2005 03:32:41; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 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
 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
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 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
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 4;-1931.2; 01-JAN-2005 04:44:17; Bright; 48.0; 39; 85Eta UMA ; 1.85; 24000;occ; 96; 0;14845
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 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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 23; 1173.6; 01-JAN-2005 05:36:02; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;14846
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 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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37; 3421.7; 01-JAN-2005 06:13:30; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;14846
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
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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
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
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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
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 27; 1439.5; 03-JAN-2005 04:37:13; Dark ; 45.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 91; 0;14874
 28; 1583.6; 03-JAN-2005 04:39:37; Dark ; 52.0; 1; 9Alp CMA ;-1.44; 11000;occ; 104; 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
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 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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30; 1882.0; 03-JAN-2005 06:25:12; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;14875
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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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
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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
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23; -1682.4; 11-JAN-2005 19:39:28; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;14997
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25; -1303.4; 11-JAN-2005 19:45:47; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;14997
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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
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31; -189.9; 11-JAN-2005 20:04:20; Dark ; 95.5; 15; 67Alp Vir ; 0.98; 28000;occ; 191; 0;14997
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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
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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
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3; -298.3; 12-JAN-2005 01:04:19; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;15000
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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
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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
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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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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
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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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