

# GOMOS Daily Report 18-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	20JAN2005 05:32:25

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (18JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19JAN2005 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)

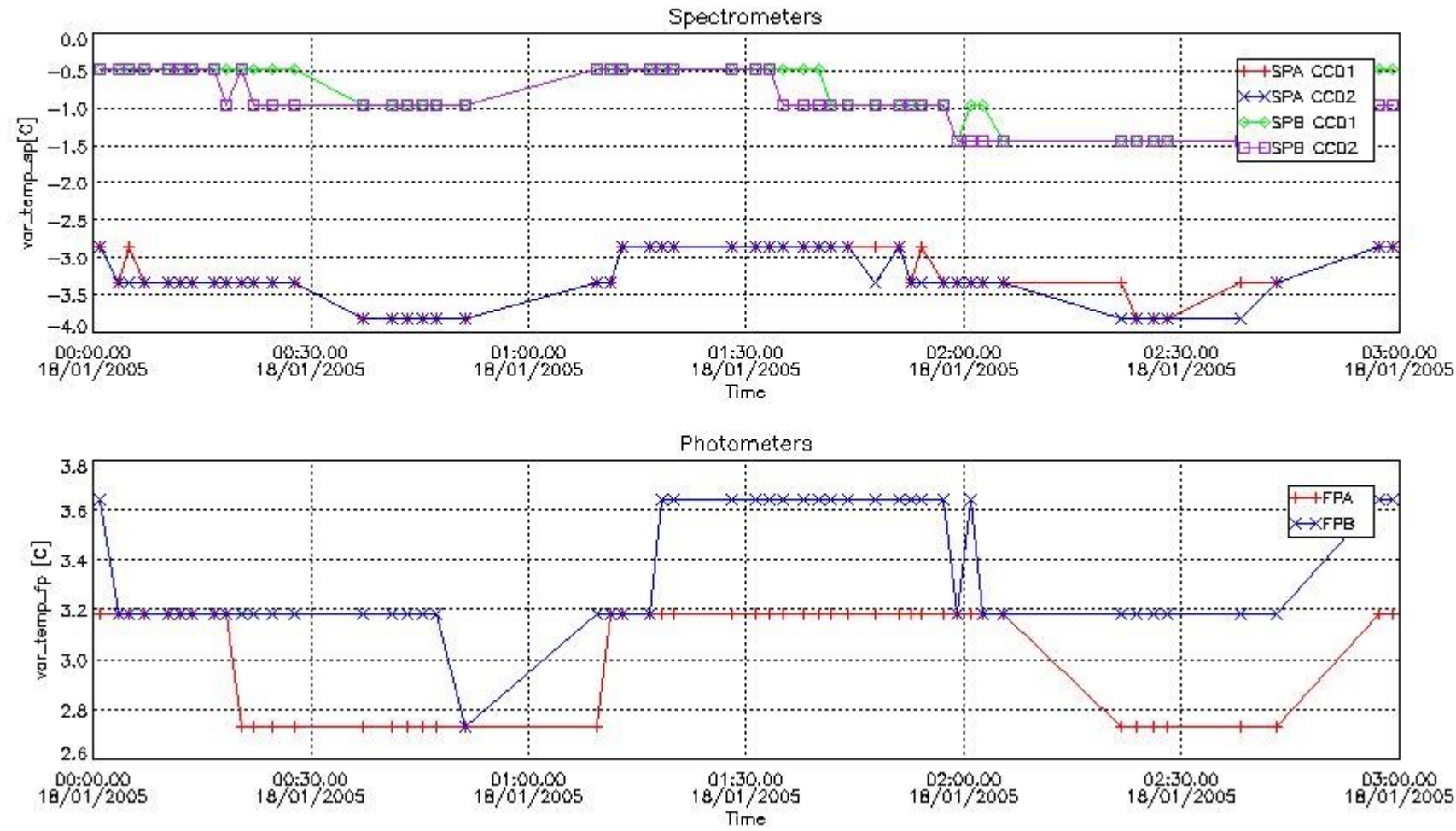
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050118_000058_000000432034_00002_15086_0013.N1	18-JAN-2005 00:00:58	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	15086	No
2	GOM_TRA_1PNPDE20050118_000329_000000442034_00002_15086_0014.N1	18-JAN-2005 00:03:29	Twilight	44.000	23	21Eps CMa	1.5020	26000.	88	15086	No
3	GOM_TRA_1PNPDE20050118_000453_000000432034_00002_15086_0015.N1	18-JAN-2005 00:04:53	Twilight	42.500	179	24Omi2CMa	3.0320	24000.	85	15086	No
4	GOM_TRA_1PNPDE20050118_000705_000000492034_00002_15086_0016.N1	18-JAN-2005 00:07:05	Twilight	49.000	1	9Alp CMa	-1.4400	11000.	98	15086	No
5	GOM_TRA_1PNPDE20050118_001026_000000502034_00002_15086_0017.N1	18-JAN-2005 00:10:26	Bright	50.000	7	19Bet Ori	0.10000	14000.	100	15086	No
6	GOM_TRA_1PNPDE20050118_001204_000000422034_00002_15086_0018.N1	18-JAN-2005 00:12:04	Bright	42.000	30	46Eps Ori	1.6940	30000.	84	15086	No
7	GOM_TRA_1PNPDE20050118_001335_000000582034_00002_15086_0019.N1	18-JAN-2005 00:13:35	Bright	57.500	8	10Alp CMi	0.40000	6500.0	115	15086	No
8	GOM_TRA_1PNPDE20050118_001637_000000532034_00002_15086_0020.N1	18-JAN-2005 00:16:37	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	15086	No
9	GOM_TRA_1PNPDE20050118_001821_000000452034_00002_15086_0021.N1	18-JAN-2005 00:18:21	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	15086	No
10	GOM_TRA_1PNPDE20050118_002022_000000402034_00002_15086_0022.N1	18-JAN-2005 00:20:22	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	15086	No
11	GOM_TRA_1PNPDE20050118_002202_000000402034_00002_15086_0023.N1	18-JAN-2005 00:22:02	Bright	39.500	114	3Iot Aur	2.6930	4600.0	79	15086	No
12	GOM_TRA_1PNPDE20050118_002440_000000402034_00002_15086_0024.N1	18-JAN-2005 00:24:40	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	15086	No
13	GOM_TRA_1PNPDE20050118_002745_000000962034_00002_15086_0025.N1	18-JAN-2005 00:27:45	Bright	96.000	166	17Eps Leo	2.9800	6000.0	192	15086	No
14	GOM_TRA_1PNPDE20050118_003716_000000352034_00002_15086_0026.N1	18-JAN-2005 00:37:16	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	15086	No
15	GOM_TRA_1PNPDE20050118_004106_000000432034_00002_15086_0027.N1	18-JAN-2005 00:41:06	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	15086	No
16	GOM_TRA_1PNPDE20050118_004311_000000532034_00002_15086_0028.N1	18-JAN-2005 00:43:11	Bright	53.000	32	77Eps UMa	1.7630	11000.	106	15086	No
17	GOM_TRA_1PNPDE20050118_004531_000000412034_00002_15086_0029.N1	18-JAN-2005 00:45:31	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	15086	No
18	GOM_TRA_1PNPDE20050118_004721_000000562034_00002_15086_0030.N1	18-JAN-2005 00:47:21	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	15086	No
19	GOM_TRA_1PNPDE20050118_005122_000000362034_00002_15086_0031.N1	18-JAN-2005 00:51:22	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	15086	No
20	GOM_TRA_1PNPDE20050118_010924_000000522034_00002_15086_0000.N1	18-JAN-2005 01:09:24	Twilight	52.000	104	27Bet Lib	2.6140	13100.	104	15086	No
21	GOM_TRA_1PNPDE20050118_011114_000000522034_00002_15086_0001.N1	18-JAN-2005 01:11:14	Twilight	51.500	16	21Alp Sco	1.0200	3000.0	103	15086	No
22	GOM_TRA_1PNPDE20050118_011251_000000462034_00002_15086_0002.N1	18-JAN-2005 01:12:51	Twilight	45.500	75	26Eps Sco	2.2910	4250.0	91	15086	No
23	GOM_TRA_1PNPDE20050118_011636_000000422034_00002_15086_0003.N1	18-JAN-2005 01:16:36	Dark	41.500	131	Gam Lup	2.8000	26000.	83	15086	No
24	GOM_TRA_1PNPDE20050118_011825_000000442034_00002_15086_0004.N1	18-JAN-2005 01:18:25	Dark	43.500	109	Bet Lup	2.6770	26000.	87	15086	No
25	GOM_TRA_1PNPDE20050118_012000_000000652034_00002_15086_0005.N1	18-JAN-2005 01:20:00	Dark	64.500	54	5The Cen	2.0550	4500.0	129	15086	No
26	GOM_TRA_1PNPDE20050118_012755_000000482034_00003_15087_0006.N1	18-JAN-2005 01:27:55	Dark	48.000	99	Del Cen	2.5750	26000.	96	15087	No
27	GOM_TRA_1PNPDE20050118_013117_000000432034_00003_15087_0007.N1	18-JAN-2005 01:31:17	Dark	43.000	29	Bet Car	1.6720	10200.	86	15087	No
28	GOM_TRA_1PNPDE20050118_013317_000000432034_00003_15087_0008.N1	18-JAN-2005 01:33:17	Dark	42.500	71	Iot Car	2.2460	7700.0	85	15087	No
29	GOM_TRA_1PNPDE20050118_013509_000000432034_00003_15087_0009.N1	18-JAN-2005 01:35:09	Dark	42.500	46	Del Vel	1.9540	10600.	85	15087	No
30	GOM_TRA_1PNPDE20050118_013759_000000522034_00003_15087_0010.N1	18-JAN-2005 01:37:59	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	15087	No
31	GOM_TRA_1PNPDE20050118_013957_000000452034_00003_15087_0011.N1	18-JAN-2005 01:39:57	Dark	44.500	70	Zet Pup	2.2460	39000.	89	15087	No
32	GOM_TRA_1PNPDE20050118_014134_000000452034_00003_15087_0012.N1	18-JAN-2005 01:41:34	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	15087	No
33	GOM_TRA_1PNPDE20050118_014406_000000472034_00003_15087_0013.N1	18-JAN-2005 01:44:06	Twilight	46.500	23	21Eps CMa	1.5020	26000.	93	15087	No
34	GOM_TRA_1PNPDE20050118_014739_000000532034_00003_15087_0014.N1	18-JAN-2005 01:47:39	Twilight	52.500	1	9Alp CMa	-1.4400	11000.	105	15087	No
35	GOM_TRA_1PNPDE20050118_015103_000000472034_00003_15087_0015.N1	18-JAN-2005 01:51:03	Bright	46.500	7	19Bet Ori	0.10000	14000.	93	15087	No
36	GOM_TRA_1PNPDE20050118_015241_000000432034_00003_15087_0016.N1	18-JAN-2005 01:52:41	Bright	42.500	30	46Eps Ori	1.6940	30000.	85	15087	No
37	GOM_TRA_1PNPDE20050118_015413_000000602034_00003_15087_0017.N1	18-JAN-2005 01:54:13	Bright	60.000	8	10Alp CMi	0.40000	6500.0	120	15087	No
38	GOM_TRA_1PNPDE20050118_015711_000000522034_00003_15087_0018.N1	18-JAN-2005 01:57:11	Bright	51.500	44	24Gam Gem	1.9280	11000.	103	15087	No
39	GOM_TRA_1PNPDE20050118_015858_000000422034_00003_15087_0019.N1	18-JAN-2005 01:58:58	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	15087	No
40	GOM_TRA_1PNPDE20050118_020058_000000402034_00003_15087_0020.N1	18-JAN-2005 02:00:58	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	15087	No
41	GOM_TRA_1PNPDE20050118_020239_000000382034_00003_15087_0021.N1	18-JAN-2005 02:02:39	Bright	37.500	114	3Iot Aur	2.6930	4600.0	75	15087	No
42	GOM_TRA_1PNPDE20050118_020518_000000392034_00003_15087_0022.N1	18-JAN-2005 02:05:18	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	15087	No
43	GOM_TRA_1PNPDE20050118_022143_000000362034_00003_15087_0000.N1	18-JAN-2005 02:21:43	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	15087	No
44	GOM_TRA_1PNPDE20050118_022346_000000542034_00003_15087_0001.N1	18-JAN-2005 02:23:46	Bright	53.500	32	77Eps UMa	1.7630	11000.	107	15087	No
45	GOM_TRA_1PNPDE20050118_022606_000000402034_00003_15087_0002.N1	18-JAN-2005 02:26:06	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	15087	No
46	GOM_TRA_1PNPDE20050118_022757_000000562034_00003_15087_0003.N1	18-JAN-2005 02:27:57	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	15087	No

47	GOM_TRA_1PNPDE20050118_023807_000000642034_00003_15087_0006.N1	18-JAN-2005 02:38:07	Bright	63.500	83		2.3780	11000.	127	15087	No
48	GOM_TRA_1PNPDE20050118_024303_000001152034_00003_15087_0007.N1	18-JAN-2005 02:43:03	Twilight	115.00	3	16Alp Boo	-0.050000	4250.0	230	15087	No
49	GOM_TRA_1PNPDE20050118_025712_000000412034_00003_15087_0013.N1	18-JAN-2005 02:57:12	Dark	41.000	131	Gam Lup	2.8000	26000.	82	15087	No
50	GOM_TRA_1PNPDE20050118_025902_000000442034_00003_15087_0014.N1	18-JAN-2005 02:59:02	Dark	43.500	109	Bet Lup	2.6770	26000.	87	15087	No

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



### 4. Overview of dark signal processing per product

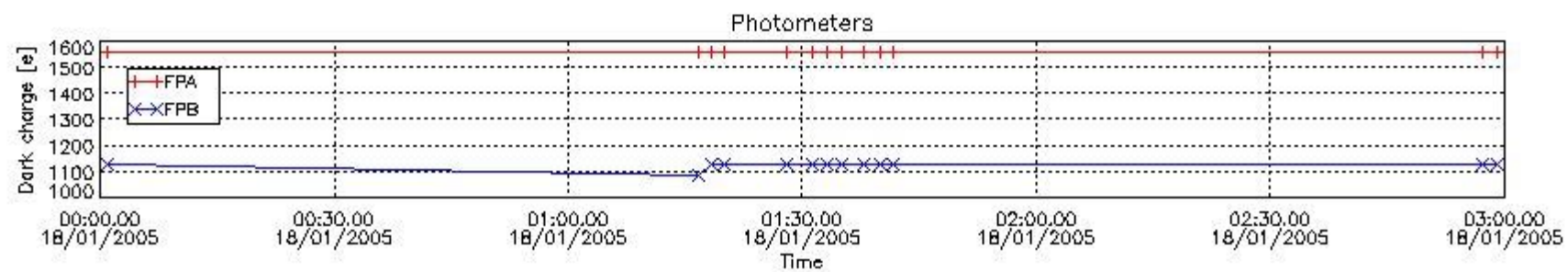
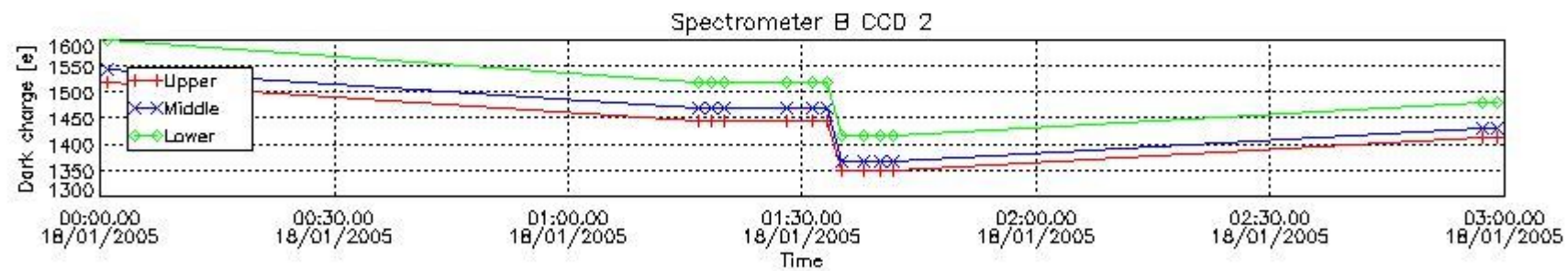
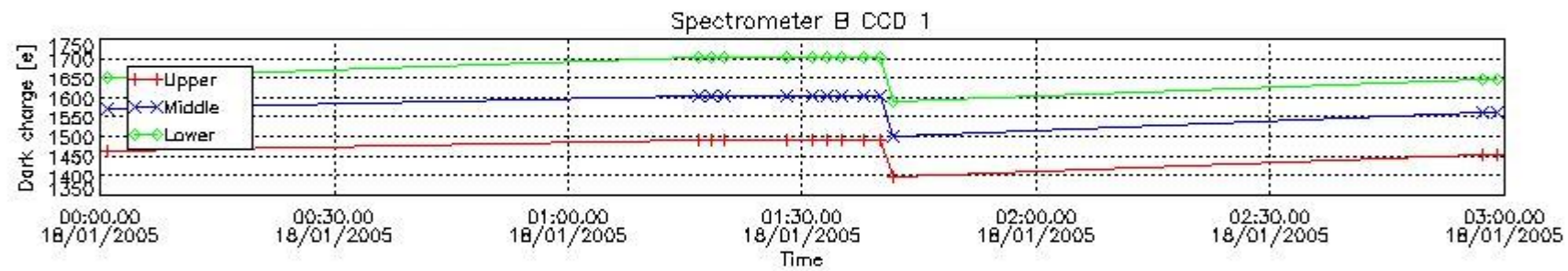
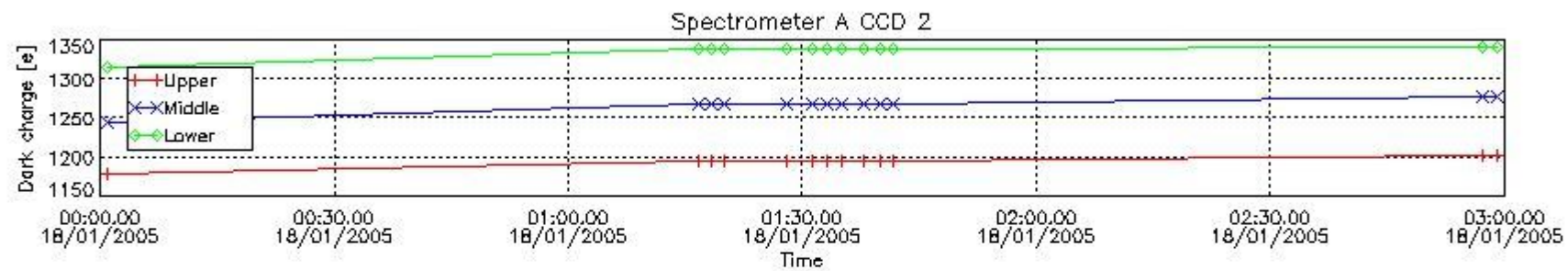
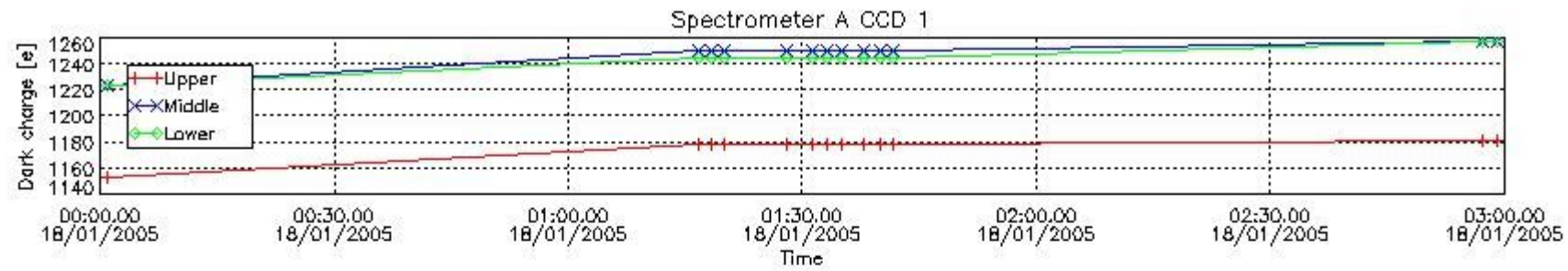
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





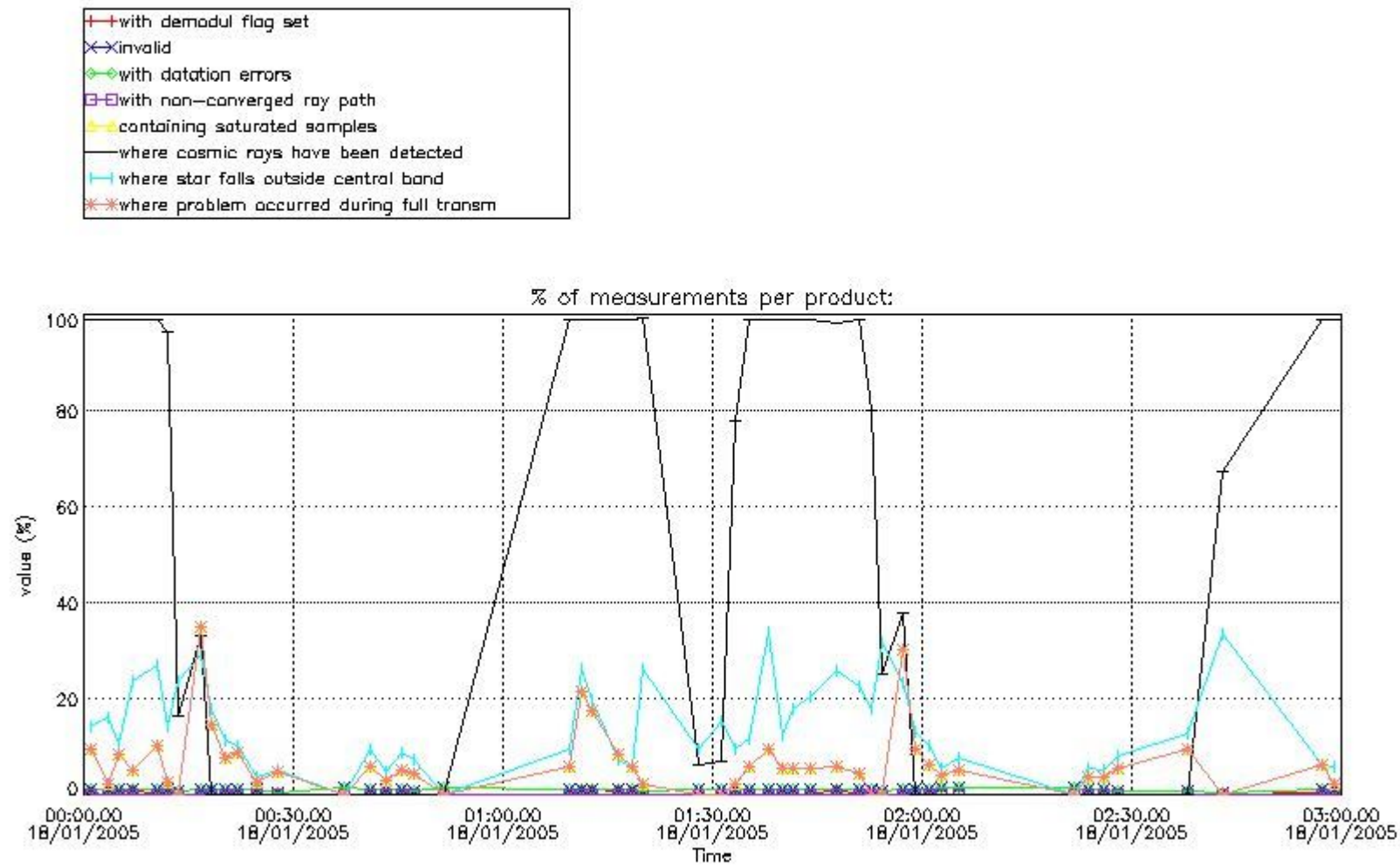
## 5. Demodulation flag and quality information monitoring

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.

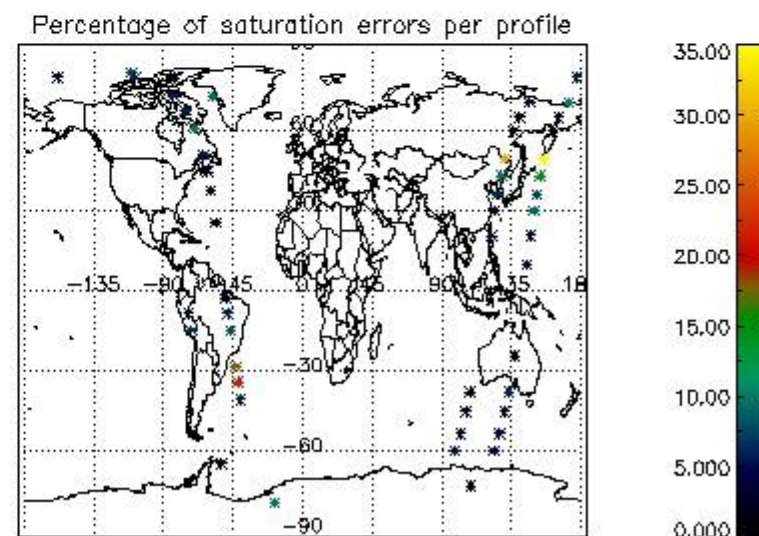
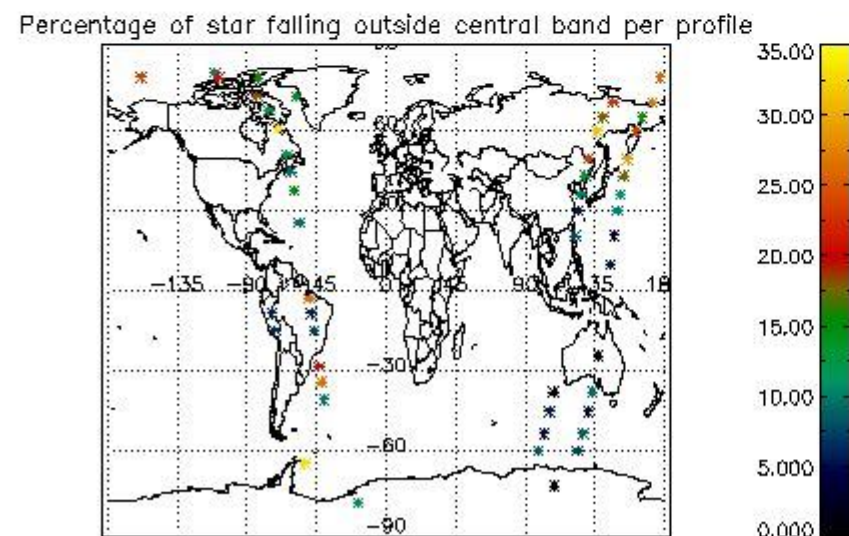
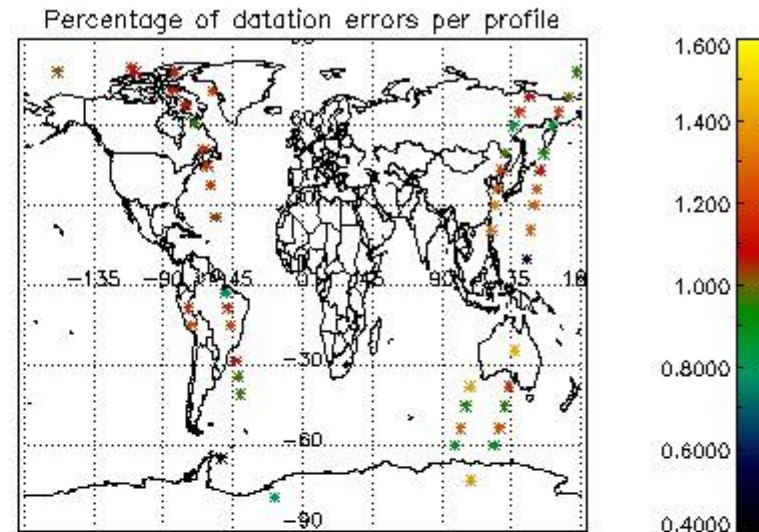
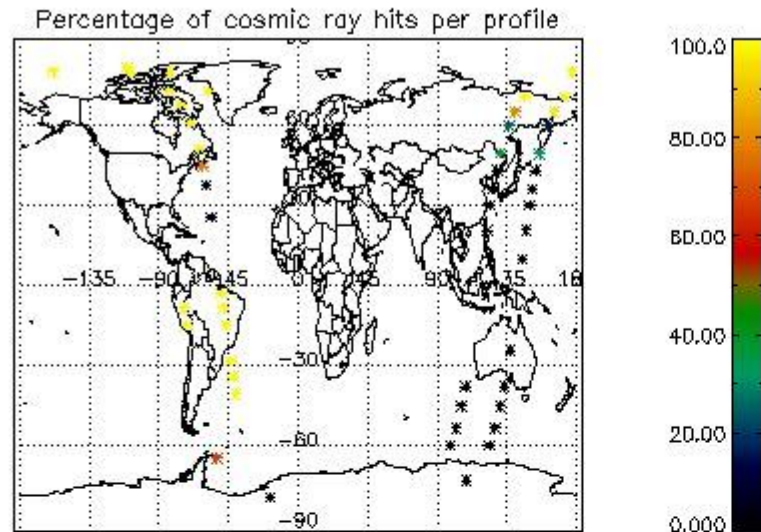
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.0000 %
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)

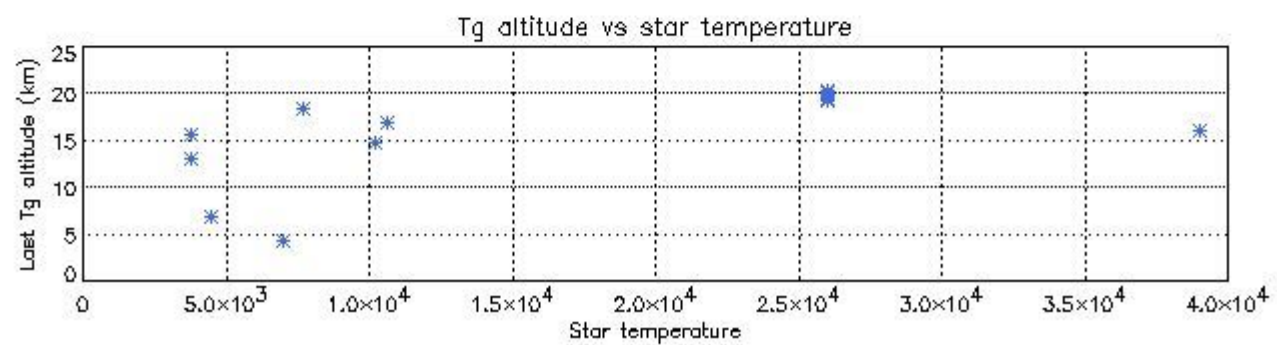
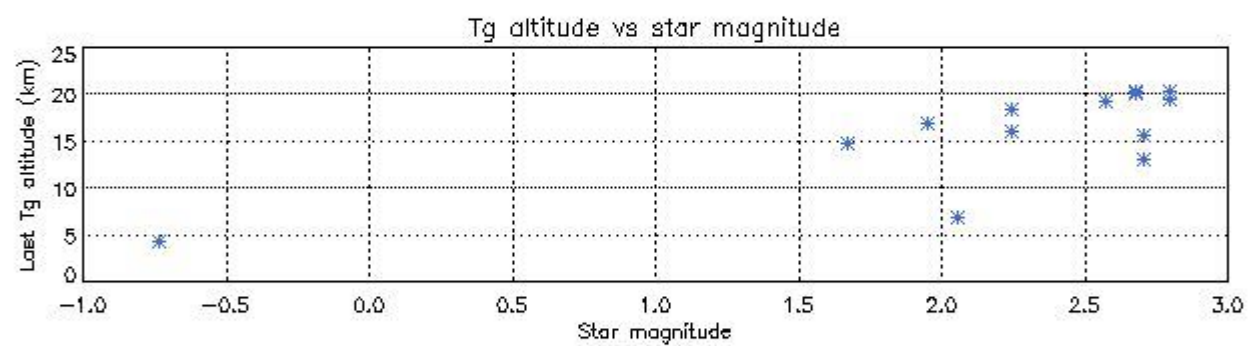
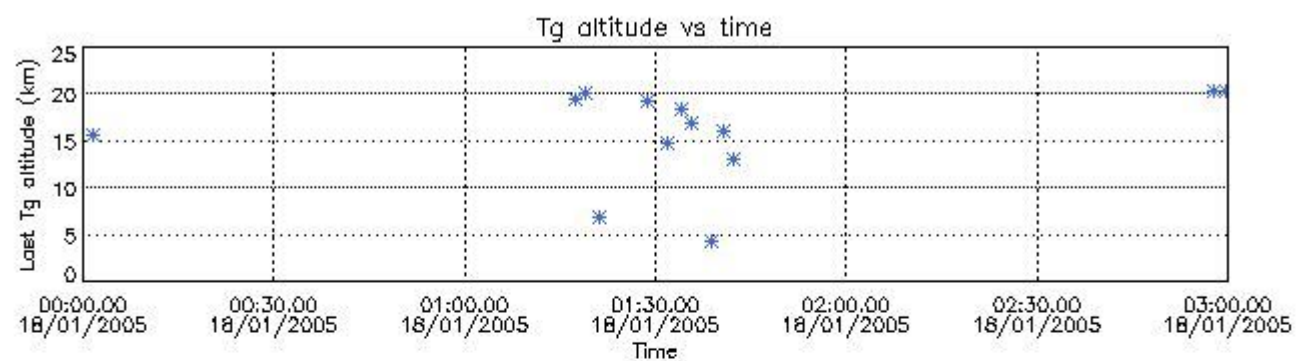
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.770	17.221	10.664
St. deviation:	5.1315	6.5287	4.0760
Maximum:	20.318	32.068	17.168
Minimum:	4.2821	5.8899	4.1456
Number of data:	13.000	28.000	9.0000

### 6.2 Plot for DARK limb products

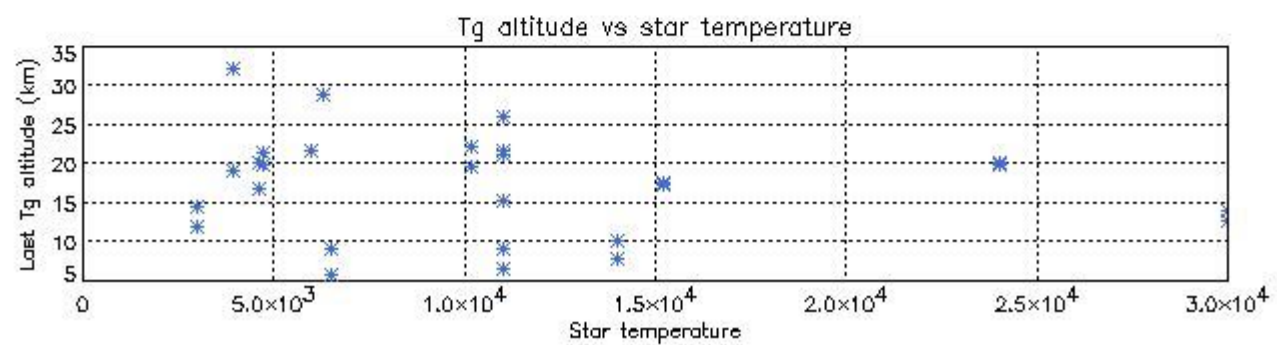
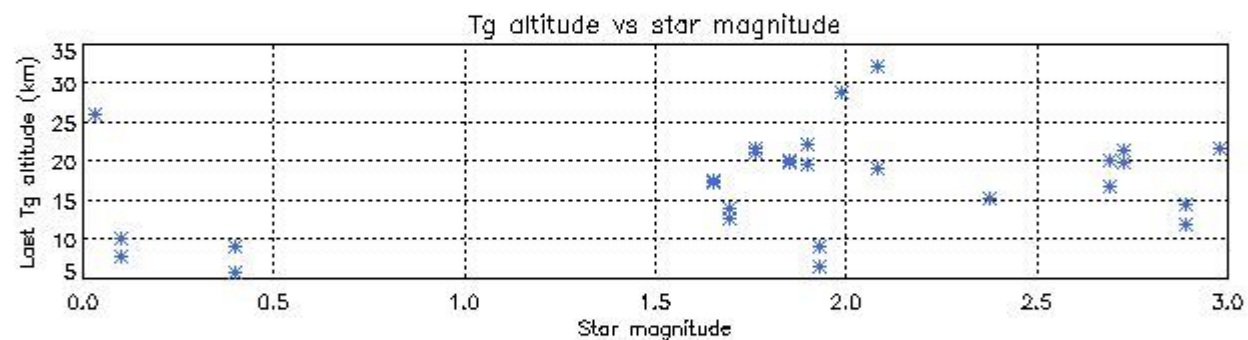
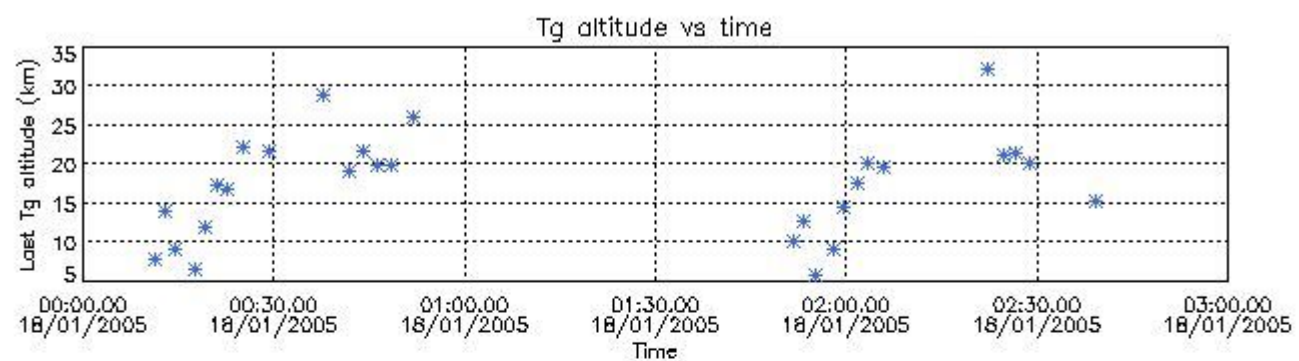


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

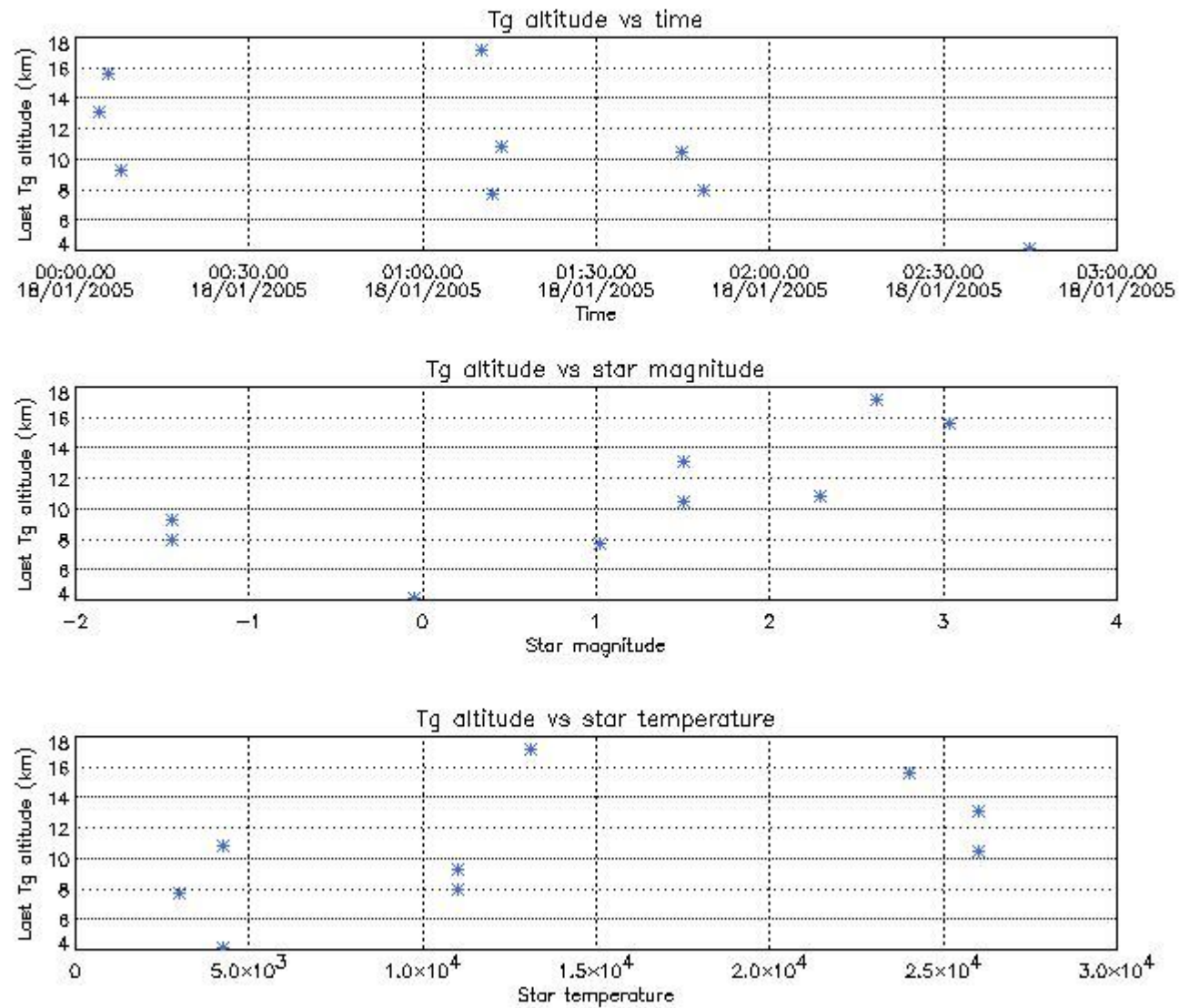
Tangent altitude at which the star is lost



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

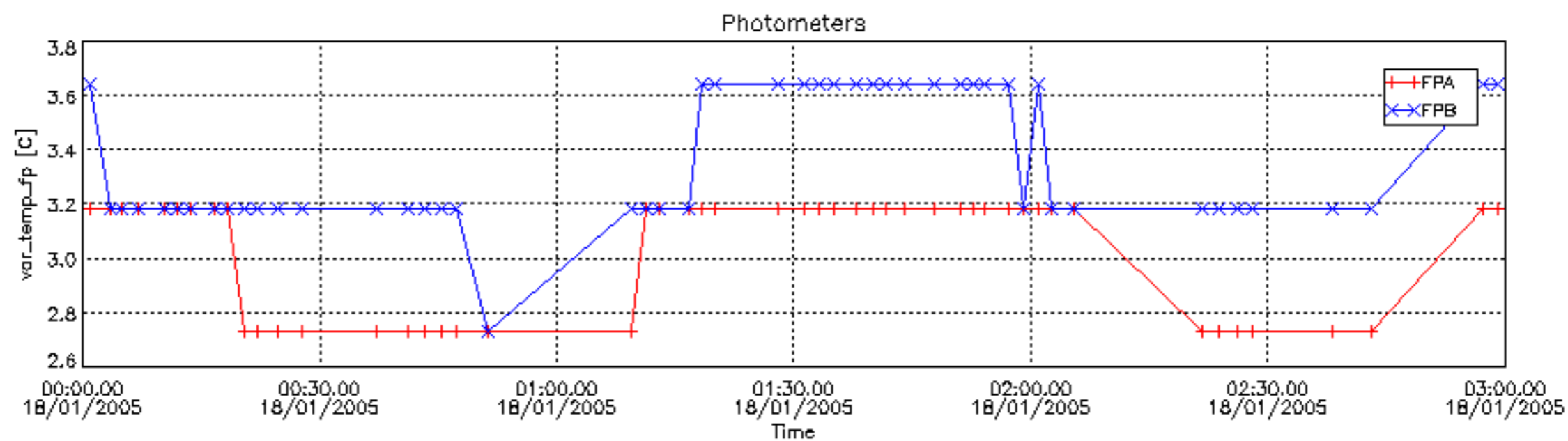
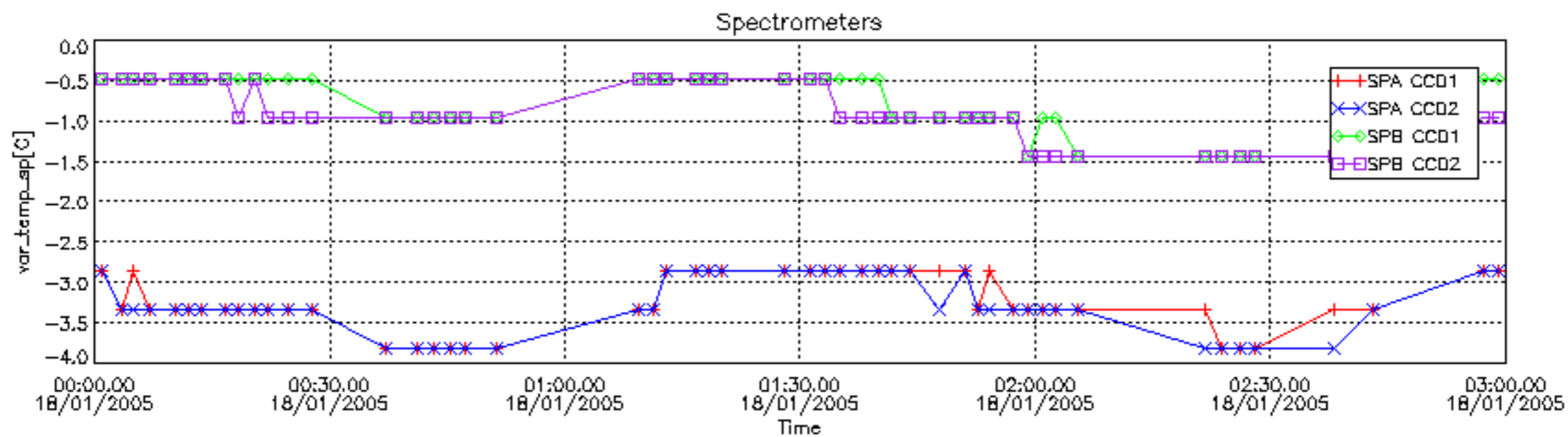
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

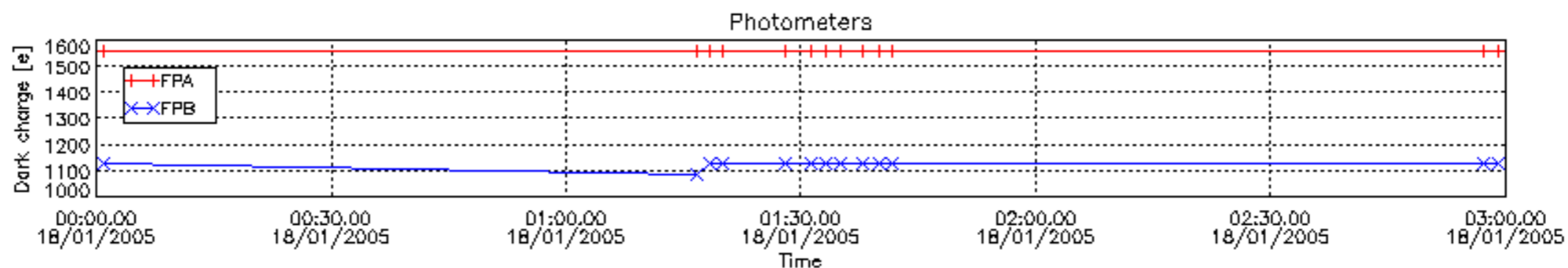
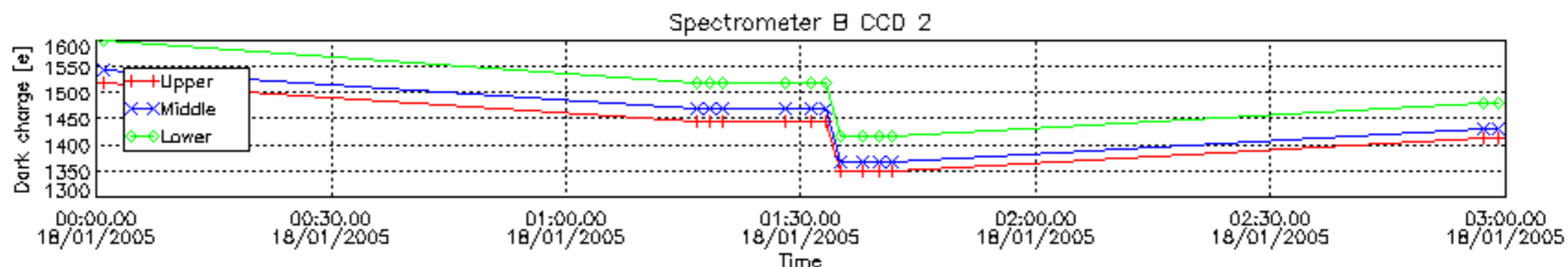
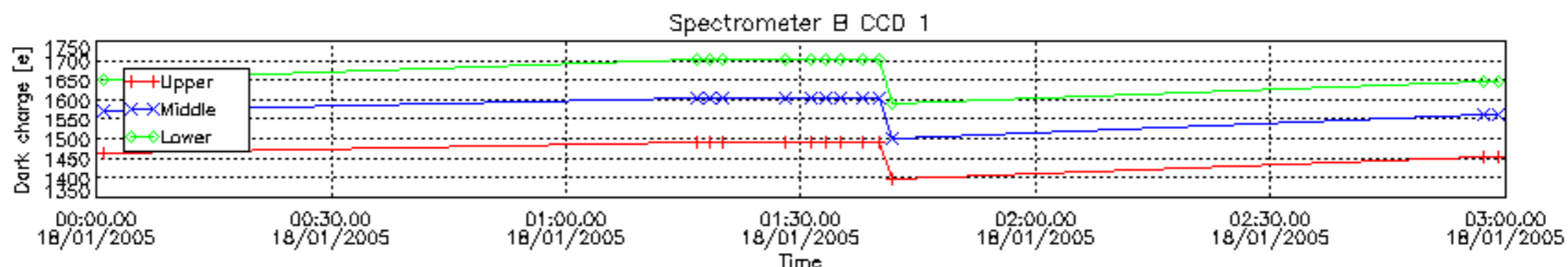
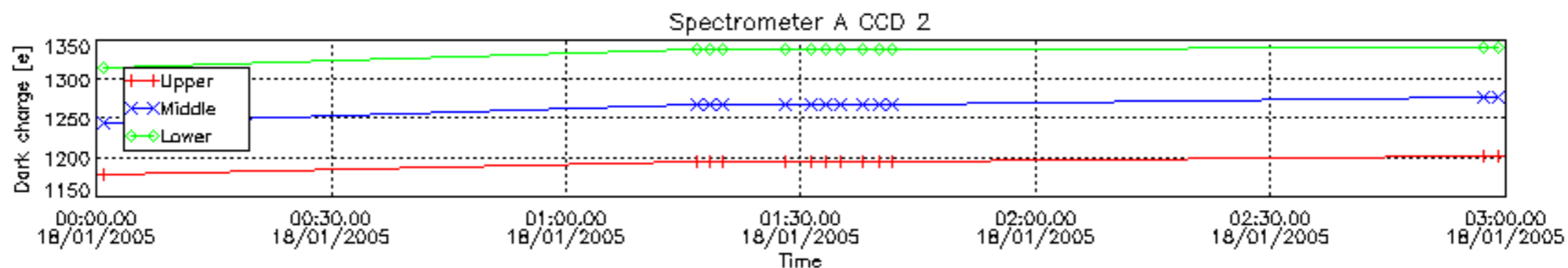
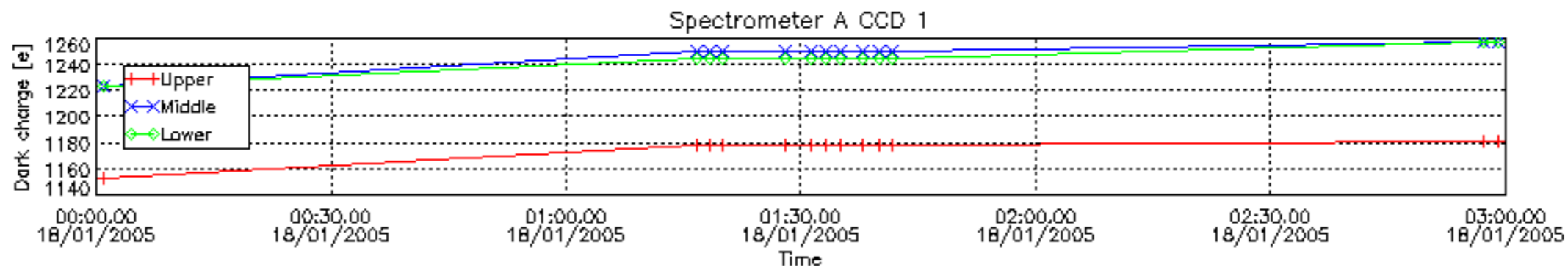
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1446.7	1461.2	1447.9
St. deviation:	7.0524	7.9085	4.8094	6.0043
Maximum:	1876.0	1488.0	1494.0	1488.0
Minimum:	1426.0	1411.0	1443.0	1427.0
Number of data:	15350.	15350.	33450.	33450.

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

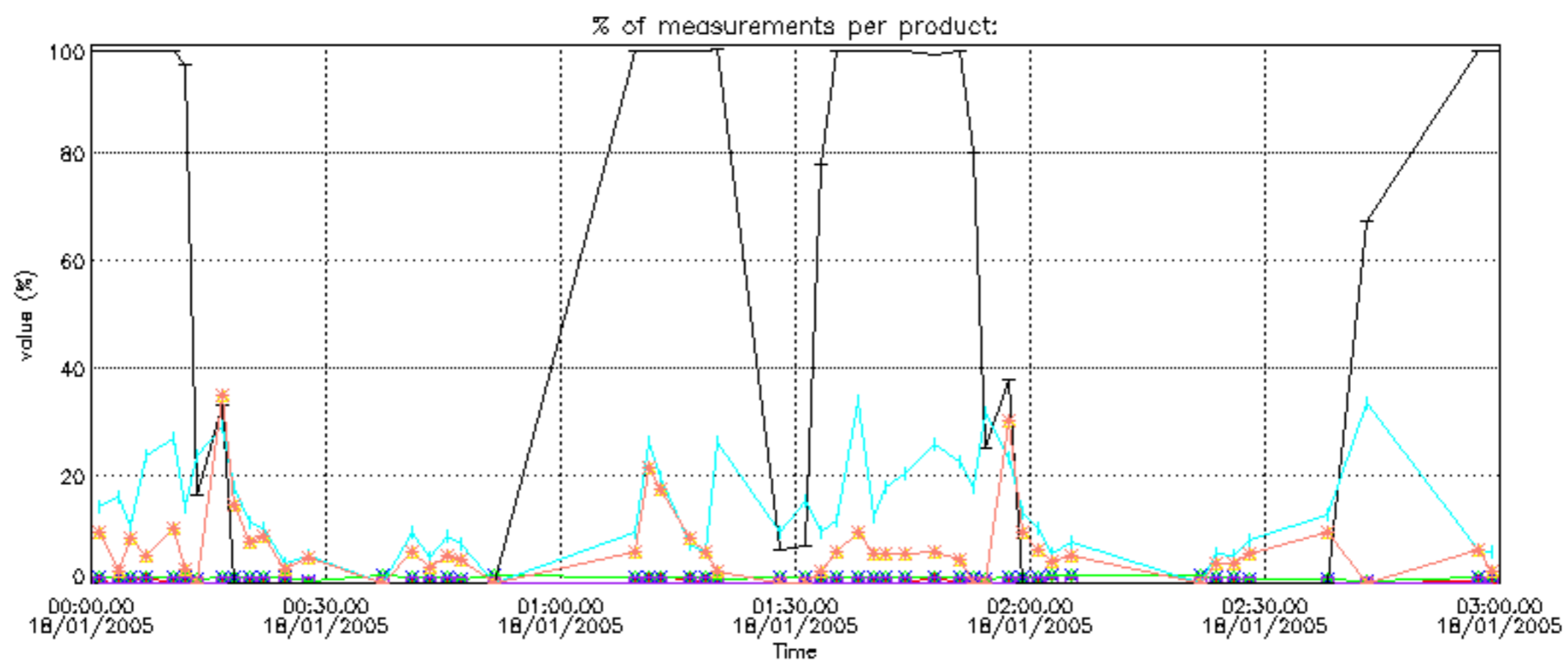
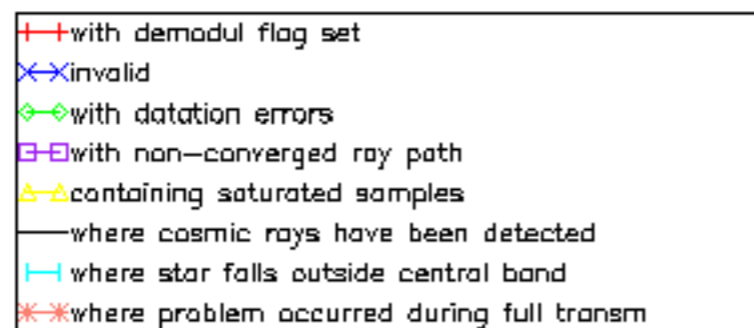
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	18-JAN-2005 00:00:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050110_095700_20050108_000000_20100101_000000	1	18-JAN-2005 00:00:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	18-JAN-2005 00:00:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-JAN-2005 00:00:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	18-JAN-2005 00:00:58
ECMWF_FILE	AUX_ECF_AXNECM20050117_060206_20050117_210000_20050118_090000	1	18-JAN-2005 00:00:58
OPTIONAL_ECMWF_FILE	NOT USED	1	18-JAN-2005 00:00:58
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050117_233652_20050117_183825_20050127_200440	1	18-JAN-2005 00:00:58

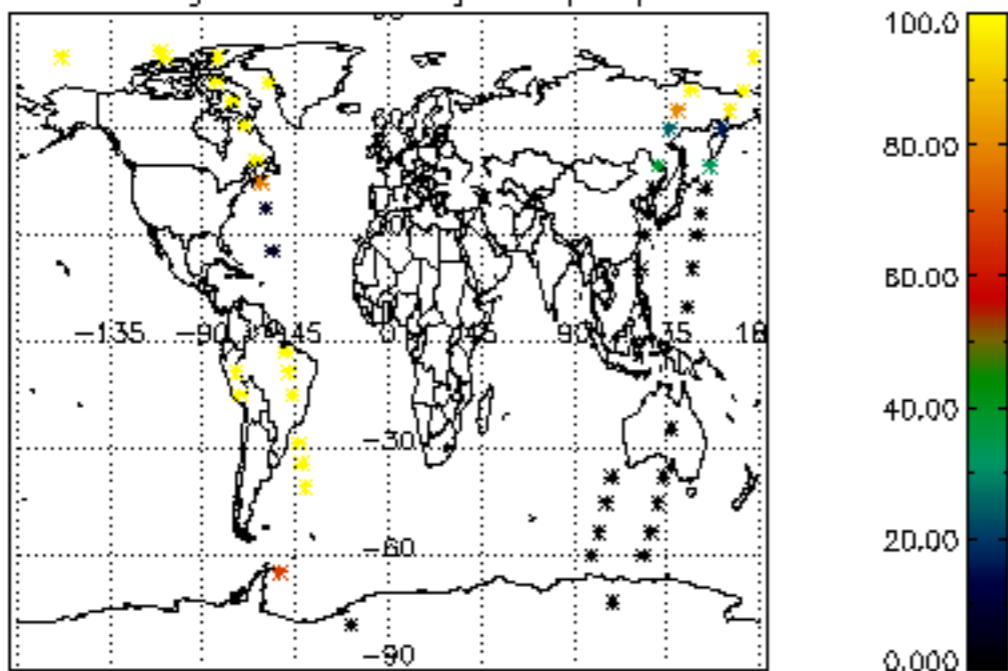




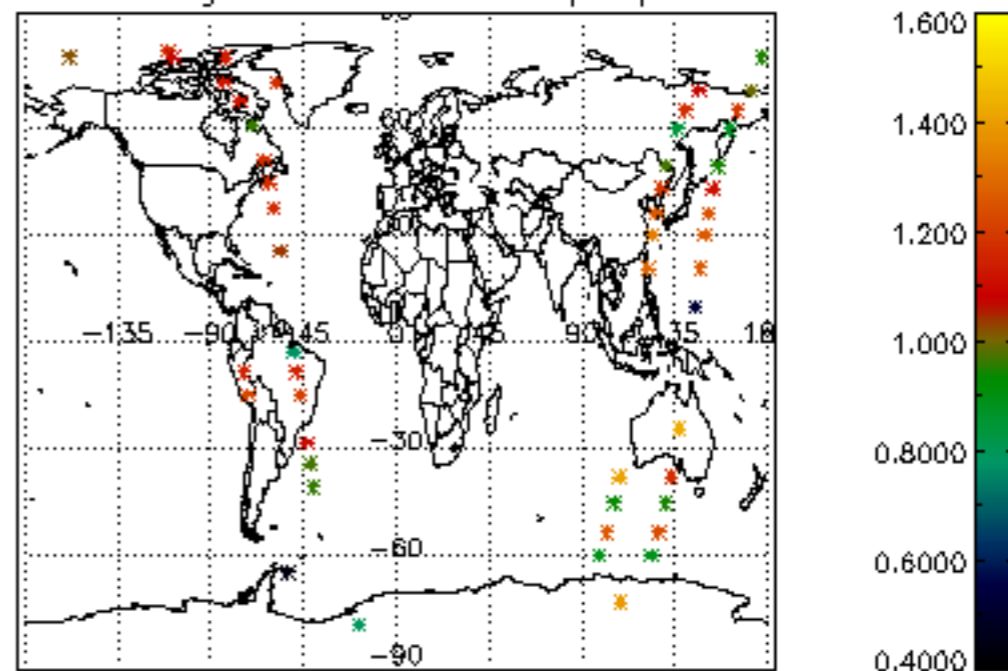




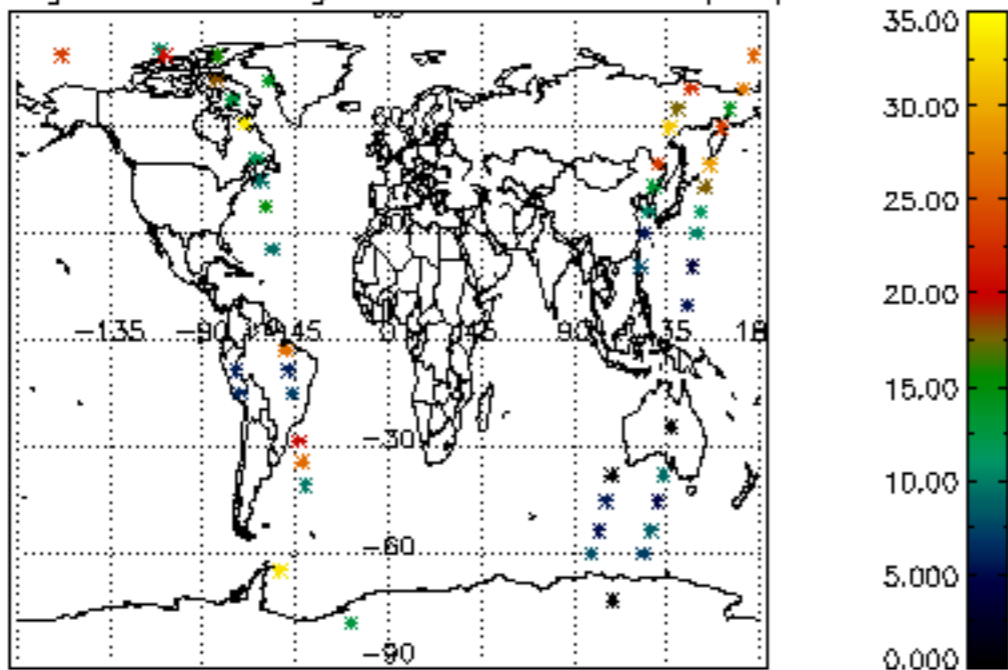
Percentage of cosmic ray hits per profile



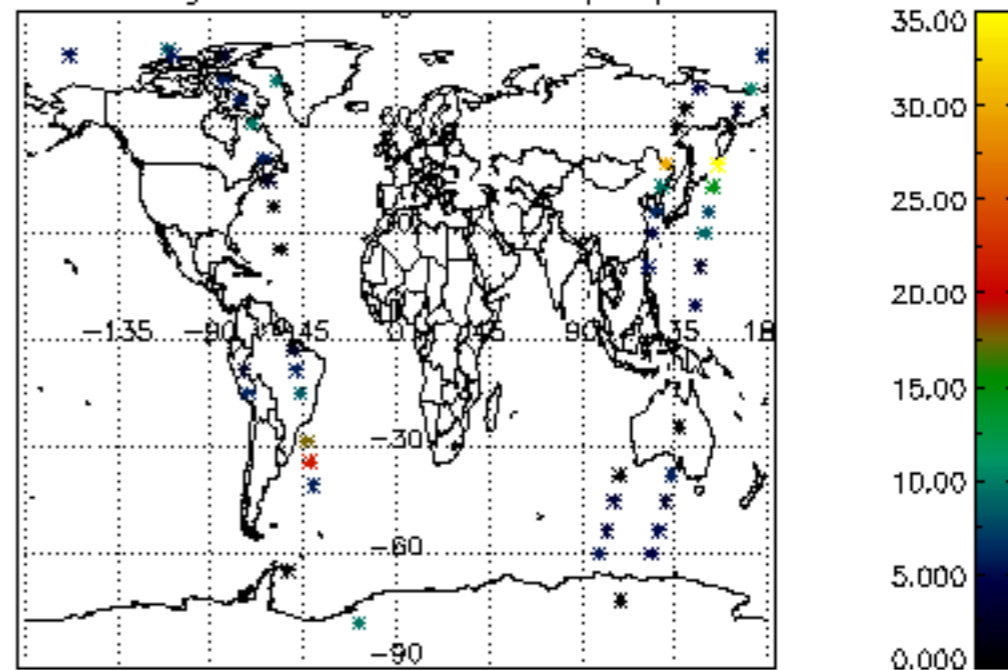
Percentage of datation errors per profile



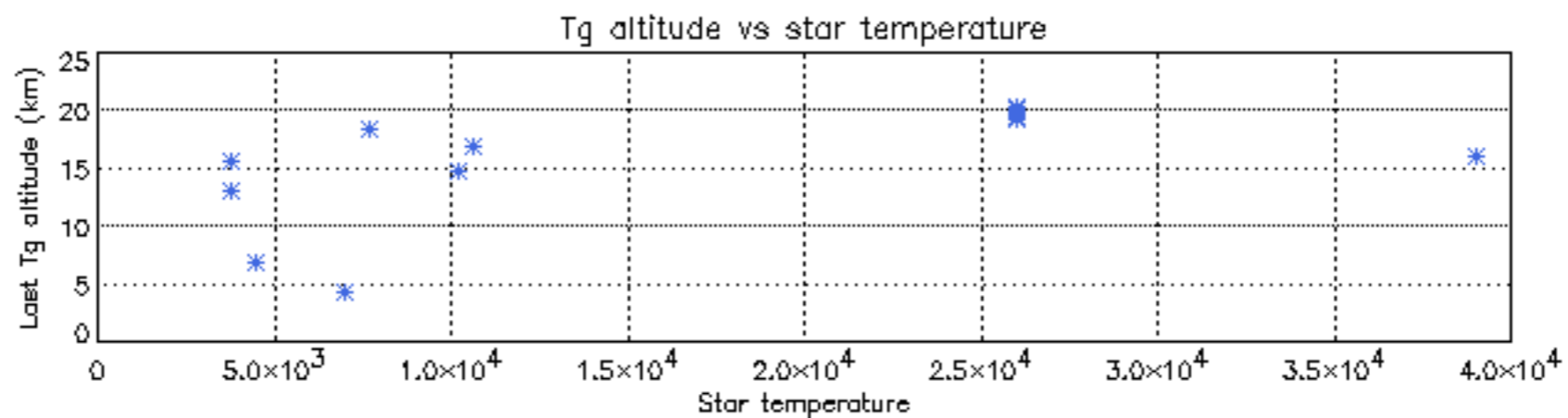
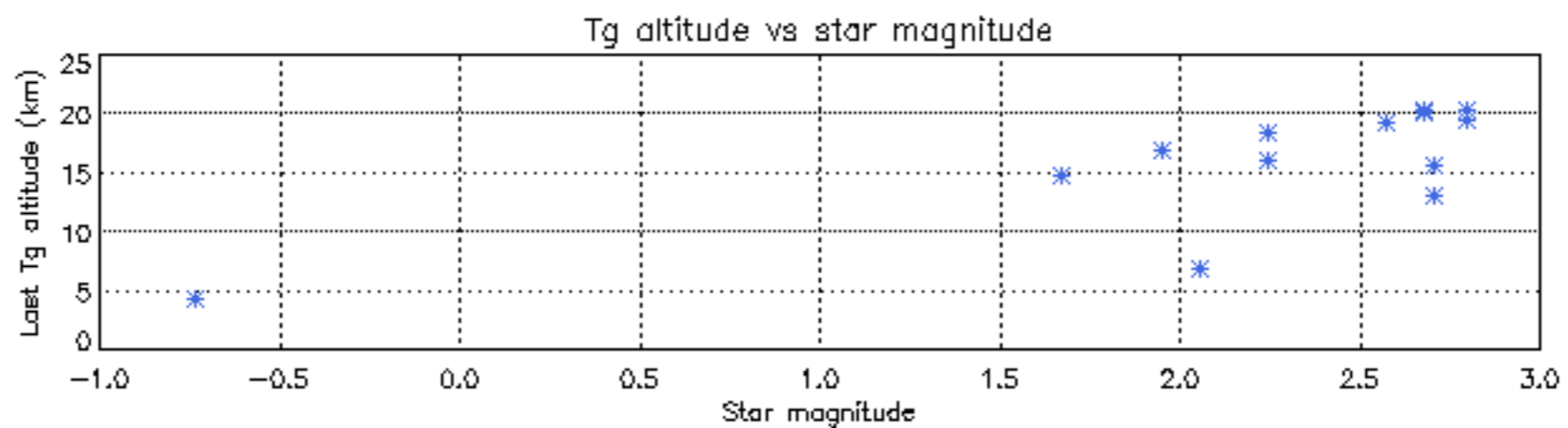
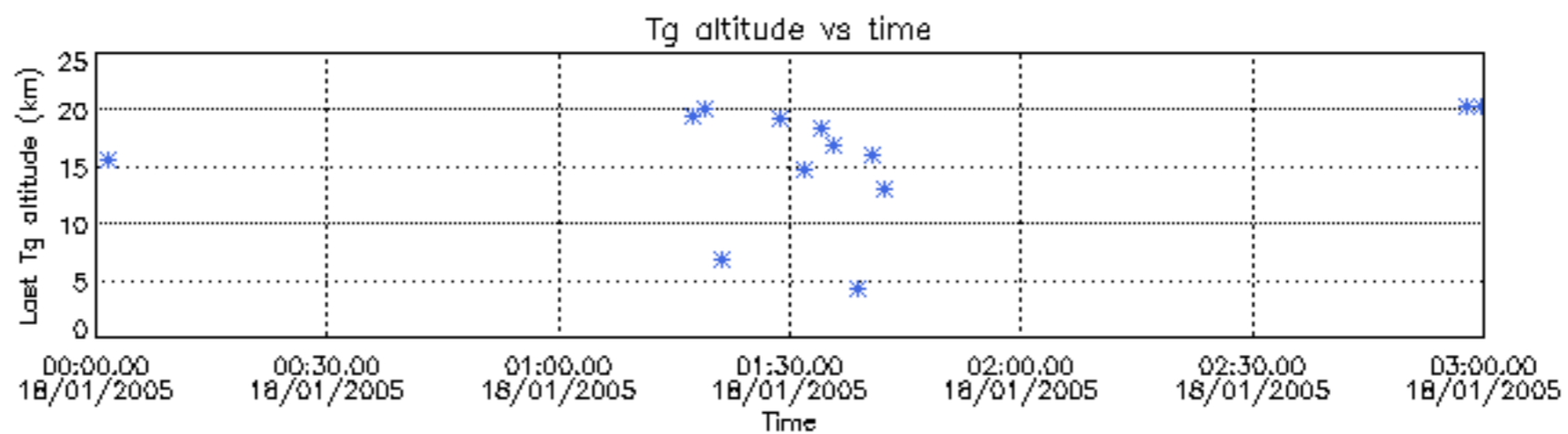
Percentage of star falling outside central band per profile



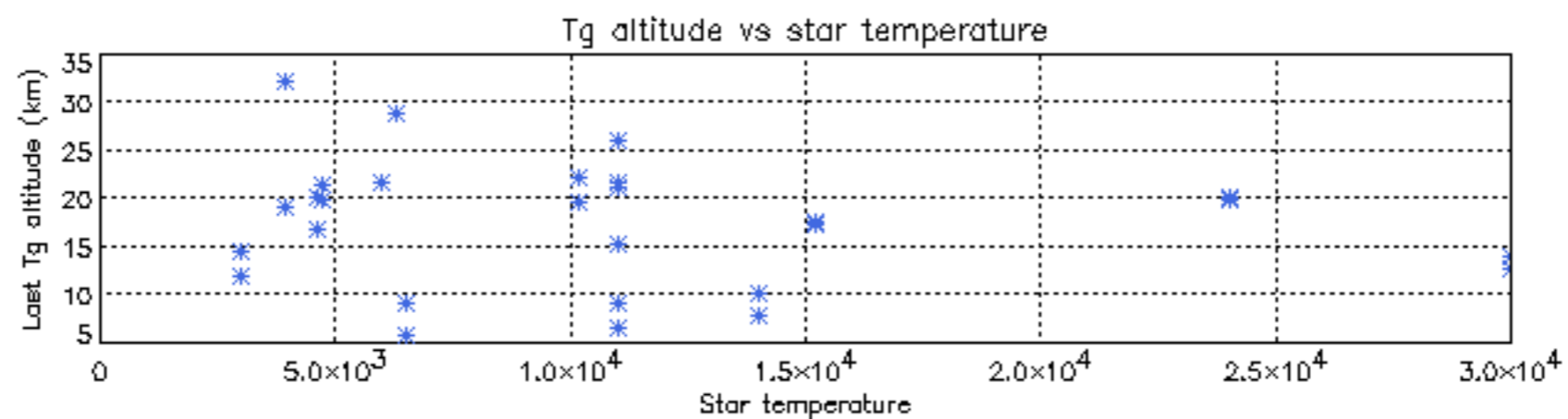
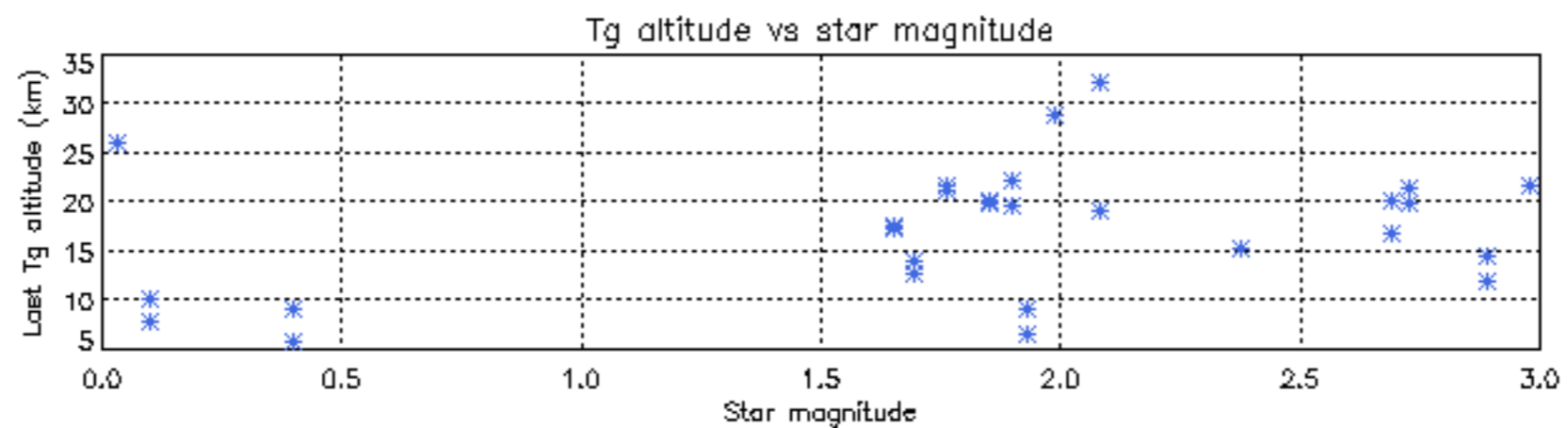
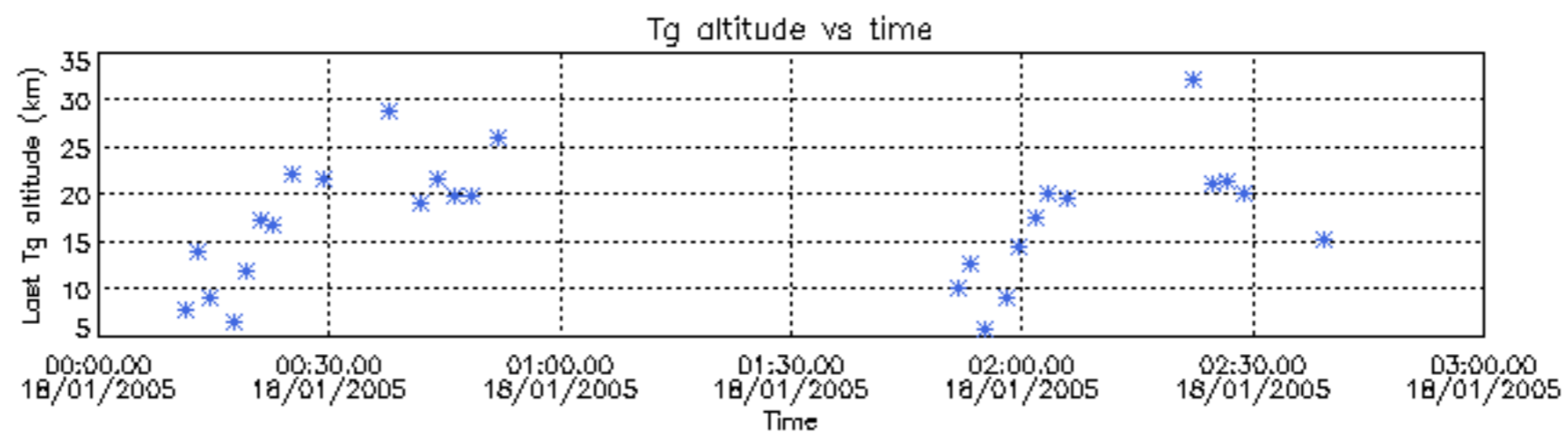
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

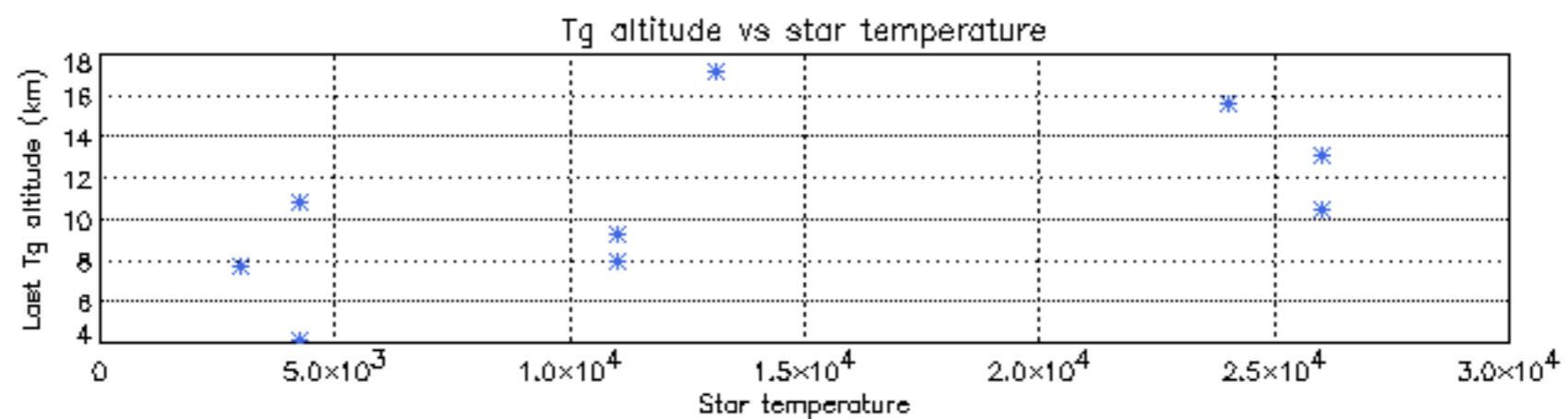
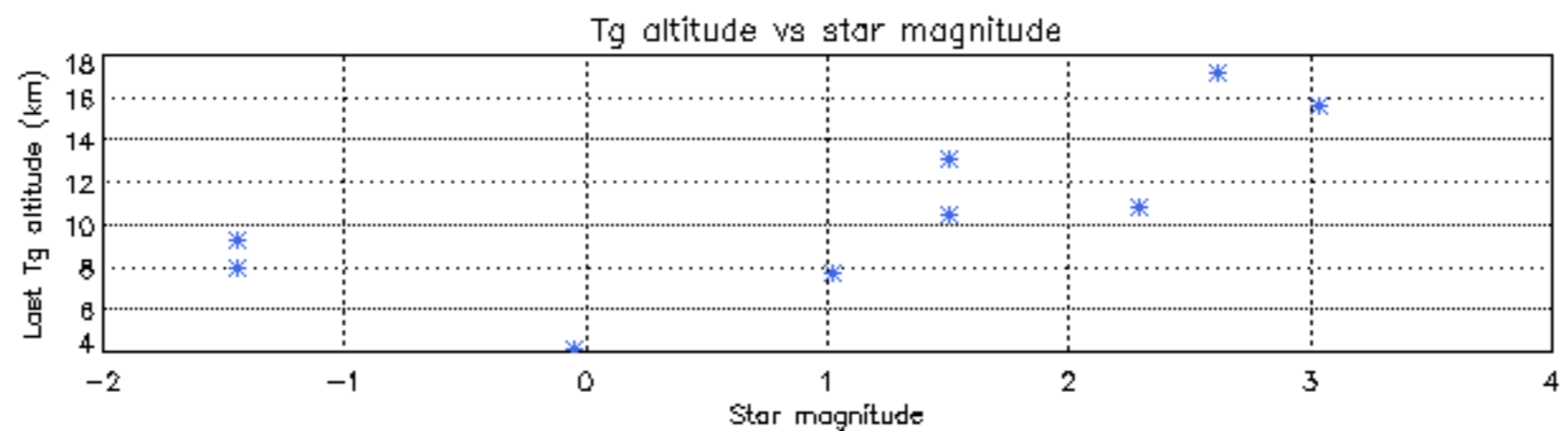
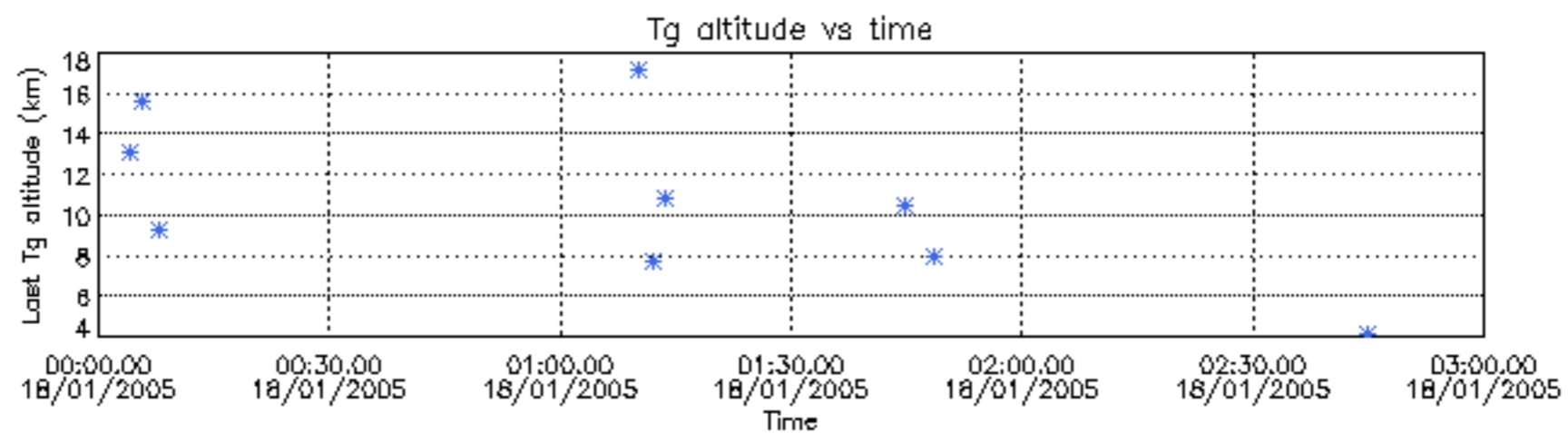


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20050101\_000317\_000059232033\_00259\_14842\_1596.N1

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  
 34; 4573.3; 01-JAN-2005 01:30:54; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14843  
 35; 4825.9; 01-JAN-2005 01:35:06; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14843  
 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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1; -831.4; 01-JAN-2005 01:41:25; Bright; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 21;14843  
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 5; -103.3; 01-JAN-2005 01:53:33; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14843  
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 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  
 11; 630.6; 01-JAN-2005 02:05:47; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14844  
 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  
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 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  
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 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  
 9; -842.1; 01-JAN-2005 03:21:50; Bright; 52.5; 104; 27Bet Lib ; 2.61; 13100;occ; 105; 0;14844  
 10; -681.9; 01-JAN-2005 03:24:30; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;14844  
 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  
 13; -191.3; 01-JAN-2005 03:32:41; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;14844  
 14; -101.5; 01-JAN-2005 03:34:11; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;14844  
 15; -0.6; 01-JAN-2005 03:35:52; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14844  
 16; 230.9; 01-JAN-2005 03:39:43; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;14845  
 17; 401.5; 01-JAN-2005 03:42:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14845  
 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  
 20; 726.8; 01-JAN-2005 03:47:59; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;14845  
 21; 847.6; 01-JAN-2005 03:50:00; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14845  
 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  
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 2;-2202.3; 01-JAN-2005 04:39:46; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14845  
 3;-2068.9; 01-JAN-2005 04:41:59; Bright; 47.5; 55; 79Zet UMA ; 2.06; 10200;occ; 95; 0;14845  
 4;-1931.2; 01-JAN-2005 04:44:17; Bright; 48.0; 39; 85Eta UMA ; 1.85; 24000;occ; 96; 0;14845  
 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  
 14; -100.9; 01-JAN-2005 05:14:47; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;14845  
 15; -0.4; 01-JAN-2005 05:16:28; Dark ; 52.0; 4; Alp1Cen ;-0.01; 5800;occ; 104; 0;14845  
 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  
 18; 548.6; 01-JAN-2005 05:25:37; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;14846  
 19; 632.6; 01-JAN-2005 05:27:01; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;14846  
 20; 727.7; 01-JAN-2005 05:28:36; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;14846  
 21; 848.7; 01-JAN-2005 05:30:37; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14846  
 22; 979.1; 01-JAN-2005 05:32:47; Dark ; 40.5; 2; Alp Car ;-0.74; 7000;occ; 81; 0;14846  
 23; 1173.6; 01-JAN-2005 05:36:02; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;14846  
 24; 1341.2; 01-JAN-2005 05:38:50; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;14846  
 25; 1433.7; 01-JAN-2005 05:40:22; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;14846  
 26; 1581.1; 01-JAN-2005 05:42:49; Dark ; 59.0; 1; 9Alp CMA ;-1.44; 11000;occ; 118; 0;14846  
 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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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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33; 2672.4; 12-JAN-2005 06:55:38; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;15004
34; 2800.0; 12-JAN-2005 06:57:46; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;15004
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4;-1783.6; 12-JAN-2005 07:21:58; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 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
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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
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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
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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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 28; 515.2; 12-JAN-2005 14:42:40; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15009  
 29; 604.0; 12-JAN-2005 14:44:09; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;15009  
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12;-2400.2; 24-JAN-2005 10:55:55; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;15178
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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8; 1041.2; 24-JAN-2005 13:33:52; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;15180
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