

# GOMOS Daily Report 09-JAN-2005

## Level 0 and Level 1 products

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## [Level 2 products](#)

### 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	11JAN2005 05:06:26

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (09JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (10JAN2005 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)

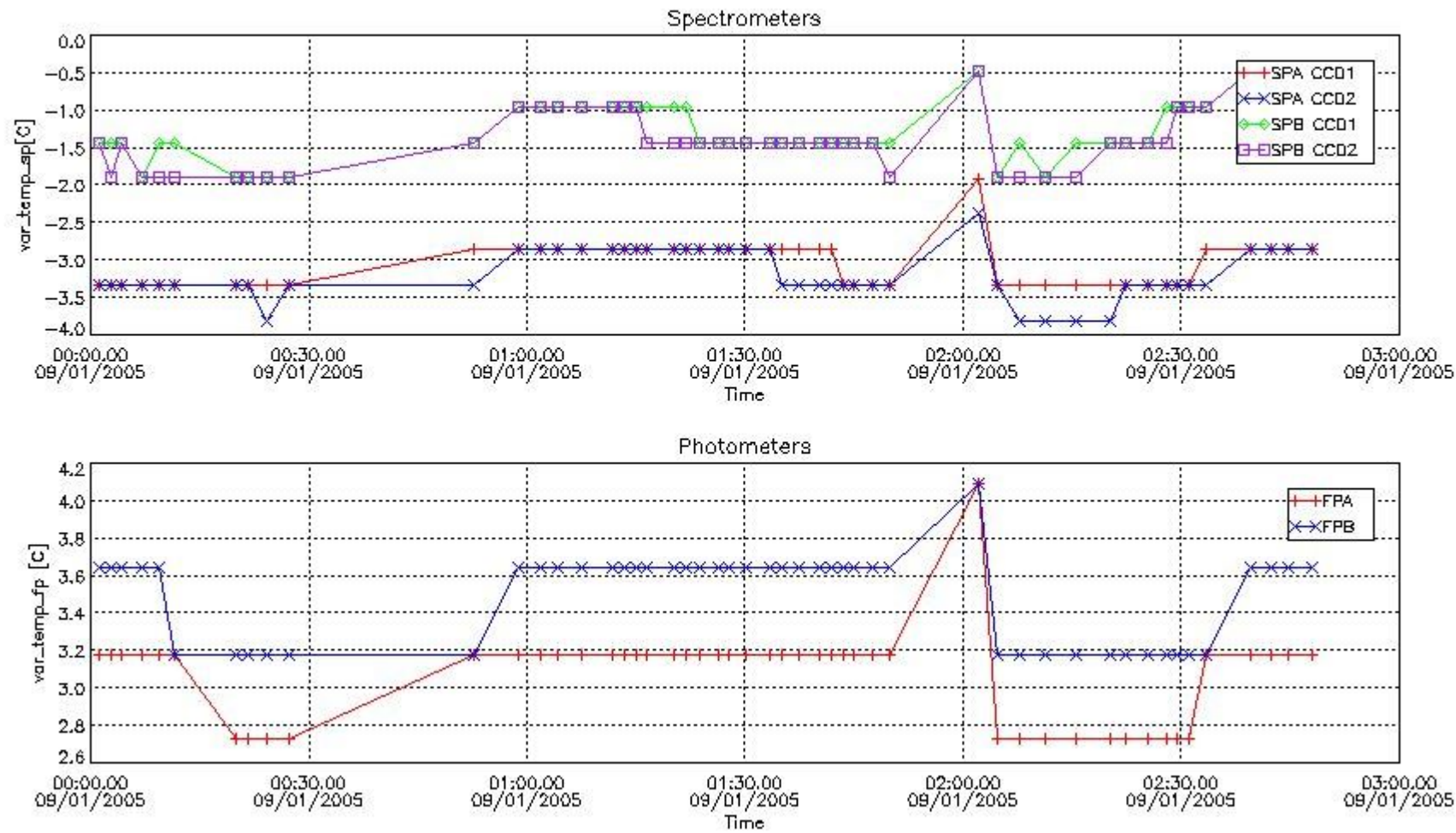
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050109_000115_000000452033_00374_14957_0020.N1	09-JAN-2005 00:01:15	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	14957	No
2	GOM_TRA_1PNPDE20050109_000250_000000392033_00374_14957_0021.N1	09-JAN-2005 00:02:50	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	14957	No
3	GOM_TRA_1PNPDE20050109_000418_000000372033_00374_14957_0022.N1	09-JAN-2005 00:04:18	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	14957	No
4	GOM_TRA_1PNPDE20050109_000701_000000372033_00374_14957_0023.N1	09-JAN-2005 00:07:01	Bright	37.000	149	45Eps Per	2.8880	30000.	74	14957	No
5	GOM_TRA_1PNPDE20050109_000920_000000372033_00374_14957_0024.N1	09-JAN-2005 00:09:20	Bright	37.000	175	39Del Per	3.0100	19400.	74	14957	No
6	GOM_TRA_1PNPDE20050109_001136_000000382033_00374_14957_0025.N1	09-JAN-2005 00:11:36	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14957	No
7	GOM_TRA_1PNPDE20050109_001959_000000332033_00374_14957_0026.N1	09-JAN-2005 00:19:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	14957	No
8	GOM_TRA_1PNPDE20050109_002132_000000502033_00374_14957_0027.N1	09-JAN-2005 00:21:32	Bright	50.000	36	50Alp UMa	1.8000	6300.0	100	14957	No
9	GOM_TRA_1PNPDE20050109_002412_000000392033_00374_14957_0028.N1	09-JAN-2005 00:24:12	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	14957	No
10	GOM_TRA_1PNPDE20050109_002712_000000502033_00374_14957_0029.N1	09-JAN-2005 00:27:12	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	14957	No
11	GOM_TRA_1PNPDE20050109_005248_000000432033_00374_14957_0000.N1	09-JAN-2005 00:52:48	Twilight	42.500	80	7Del Sco	2.3160	30000.	85	14957	No
12	GOM_TRA_1PNPDE20050109_005854_000000862033_00374_14957_0001.N1	09-JAN-2005 00:58:54	Dark	85.500	15	67Alp Vir	0.97600	28000.	171	14957	No
13	GOM_TRA_1PNPDE20050109_010147_000000672033_00374_14957_0002.N1	09-JAN-2005 01:01:47	Dark	67.000	169	46Gam Hya	2.9910	4700.0	134	14957	No
14	GOM_TRA_1PNPDE20050109_010412_000000502033_00375_14958_0003.N1	09-JAN-2005 01:04:12	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	14958	No
15	GOM_TRA_1PNPDE20050109_010726_000000502033_00375_14958_0004.N1	09-JAN-2005 01:07:26	Dark	50.000	20	Bet Cru	1.2530	30000.	100	14958	No
16	GOM_TRA_1PNPDE20050109_011143_000000402033_00375_14958_0005.N1	09-JAN-2005 01:11:43	Dark	39.500	124	The Car	2.7640	30000.	79	14958	No
17	GOM_TRA_1PNPDE20050109_011320_000000392033_00375_14958_0006.N1	09-JAN-2005 01:13:20	Dark	39.000	29	Bet Car	1.6720	10200.	78	14958	No
18	GOM_TRA_1PNPDE20050109_011502_000000422033_00375_14958_0007.N1	09-JAN-2005 01:15:02	Dark	41.500	71	Iot Car	2.2460	7700.0	83	14958	No
19	GOM_TRA_1PNPDE20050109_011626_000000492033_00375_14958_0008.N1	09-JAN-2005 01:16:26	Dark	49.000	41	Eps Car	1.8600	4100.0	98	14958	No
20	GOM_TRA_1PNPDE20050109_012018_000000432033_00375_14958_0009.N1	09-JAN-2005 01:20:18	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	14958	No
21	GOM_TRA_1PNPDE20050109_012154_000000432033_00375_14958_0010.N1	09-JAN-2005 01:21:54	Dark	42.500	70	Zet Pup	2.2460	39000.	85	14958	No
22	GOM_TRA_1PNPDE20050109_012343_000000462033_00375_14958_0011.N1	09-JAN-2005 01:23:43	Dark	45.500	117	Pi Pup	2.7060	3800.0	91	14958	No
23	GOM_TRA_1PNPDE20050109_012621_000000462033_00375_14958_0012.N1	09-JAN-2005 01:26:21	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	14958	No
24	GOM_TRA_1PNPDE20050109_012749_000000442033_00375_14958_0013.N1	09-JAN-2005 01:27:49	Twilight	44.000	179	24Omi2CMa	3.0320	24000.	88	14958	No
25	GOM_TRA_1PNPDE20050109_013007_000000482033_00375_14958_0014.N1	09-JAN-2005 01:30:07	Twilight	48.000	1	9Alp CMa	-1.4400	11000.	96	14958	No
26	GOM_TRA_1PNPDE20050109_013319_000000492033_00375_14958_0015.N1	09-JAN-2005 01:33:19	Bright	49.000	7	19Bet Ori	0.10000	14000.	98	14958	No
27	GOM_TRA_1PNPDE20050109_013503_000000432033_00375_14958_0016.N1	09-JAN-2005 01:35:03	Bright	42.500	30	46Eps Ori	1.6940	30000.	85	14958	No
28	GOM_TRA_1PNPDE20050109_013728_000000642033_00375_14958_0017.N1	09-JAN-2005 01:37:28	Bright	64.000	8	10Alp CMI	0.40000	6500.0	128	14958	No
29	GOM_TRA_1PNPDE20050109_014010_000000462033_00375_14958_0018.N1	09-JAN-2005 01:40:10	Bright	46.000	44	24Gam Gem	1.9280	11000.	92	14958	No
30	GOM_TRA_1PNPDE20050109_014151_000000452033_00375_14958_0019.N1	09-JAN-2005 01:41:51	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	14958	No
31	GOM_TRA_1PNPDE20050109_014326_000000392033_00375_14958_0020.N1	09-JAN-2005 01:43:26	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	14958	No
32	GOM_TRA_1PNPDE20050109_014454_000000402033_00375_14958_0021.N1	09-JAN-2005 01:44:54	Bright	39.500	114	3Iot Aur	2.6930	4600.0	79	14958	No
33	GOM_TRA_1PNPDE20050109_014738_000000372033_00375_14958_0022.N1	09-JAN-2005 01:47:38	Bright	36.500	149	45Eps Per	2.8880	30000.	73	14958	No
34	GOM_TRA_1PNPDE20050109_014956_000000362033_00375_14958_0023.N1	09-JAN-2005 01:49:56	Bright	36.000	175	39Del Per	3.0100	19400.	72	14958	No
35	GOM_TRA_1PNPDE20050109_020207_000000502033_00375_14958_0000.N1	09-JAN-2005 02:02:07	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	14958	Yes
36	GOM_TRA_1PNPDE20050109_020448_000000402033_00375_14958_0001.N1	09-JAN-2005 02:04:48	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14958	No
37	GOM_TRA_1PNPDE20050109_020747_000000512033_00375_14958_0002.N1	09-JAN-2005 02:07:47	Bright	51.000	32	77Eps UMa	1.7630	11000.	102	14958	No
38	GOM_TRA_1PNPDE20050109_021118_000000362033_00375_14958_0003.N1	09-JAN-2005 02:11:18	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	14958	No
39	GOM_TRA_1PNPDE20050109_021528_000000942033_00375_14958_0004.N1	09-JAN-2005 02:15:28	Bright	94.000	152	12Alp2CVn	2.8900	11000.	188	14958	No
40	GOM_TRA_1PNPDE20050109_022013_000000692033_00375_14958_0005.N1	09-JAN-2005 02:20:13	Bright	69.000	83		2.3780	11000.	138	14958	No
41	GOM_TRA_1PNPDE20050109_022218_000000352033_00375_14958_0006.N1	09-JAN-2005 02:22:18	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	14958	No
42	GOM_TRA_1PNPDE20050109_022519_000000772033_00375_14958_0007.N1	09-JAN-2005 02:25:19	Bright	76.500	111	8Eta Boo	2.6800	6000.0	153	14958	No
43	GOM_TRA_1PNPDE20050109_022755_000000372033_00375_14958_0008.N1	09-JAN-2005 02:27:55	Twilight	37.000	120	1Del Oph	2.7340	3200.0	74	14958	No
44	GOM_TRA_1PNPDE20050109_022923_000000372033_00375_14958_0009.N1	09-JAN-2005 02:29:23	Twilight	36.500	98	13Zet Oph	2.5710	30000.	73	14958	No
45	GOM_TRA_1PNPDE20050109_023109_000000452033_00375_14958_0010.N1	09-JAN-2005 02:31:09	Twilight	45.000	104	27Bet Lib	2.6140	13100.	90	14958	No
46	GOM_TRA_1PNPDE20050109_023325_000000432033_00375_14958_0011.N1	09-JAN-2005 02:33:25	Twilight	42.500	80	7Del Sco	2.3160	30000.	85	14958	No

47	GOM_TRA_1PNPDE20050109_023932_000000812033_00375_14958_0012.N1	09-JAN-2005 02:39:32	Dark	80.500	15	67Alp Vir	0.97600	28000.	161	14958	No
48	GOM_TRA_1PNPDE20050109_024225_000000632033_00375_14958_0013.N1	09-JAN-2005 02:42:25	Dark	63.000	169	46Gam Hya	2.9910	4700.0	126	14958	No
49	GOM_TRA_1PNPDE20050109_024448_000000432033_00376_14959_0014.N1	09-JAN-2005 02:44:48	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	14959	No
50	GOM_TRA_1PNPDE20050109_024802_000000422033_00376_14959_0015.N1	09-JAN-2005 02:48:02	Dark	42.000	20	Bet Cru	1.2530	30000.	84	14959	No

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



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

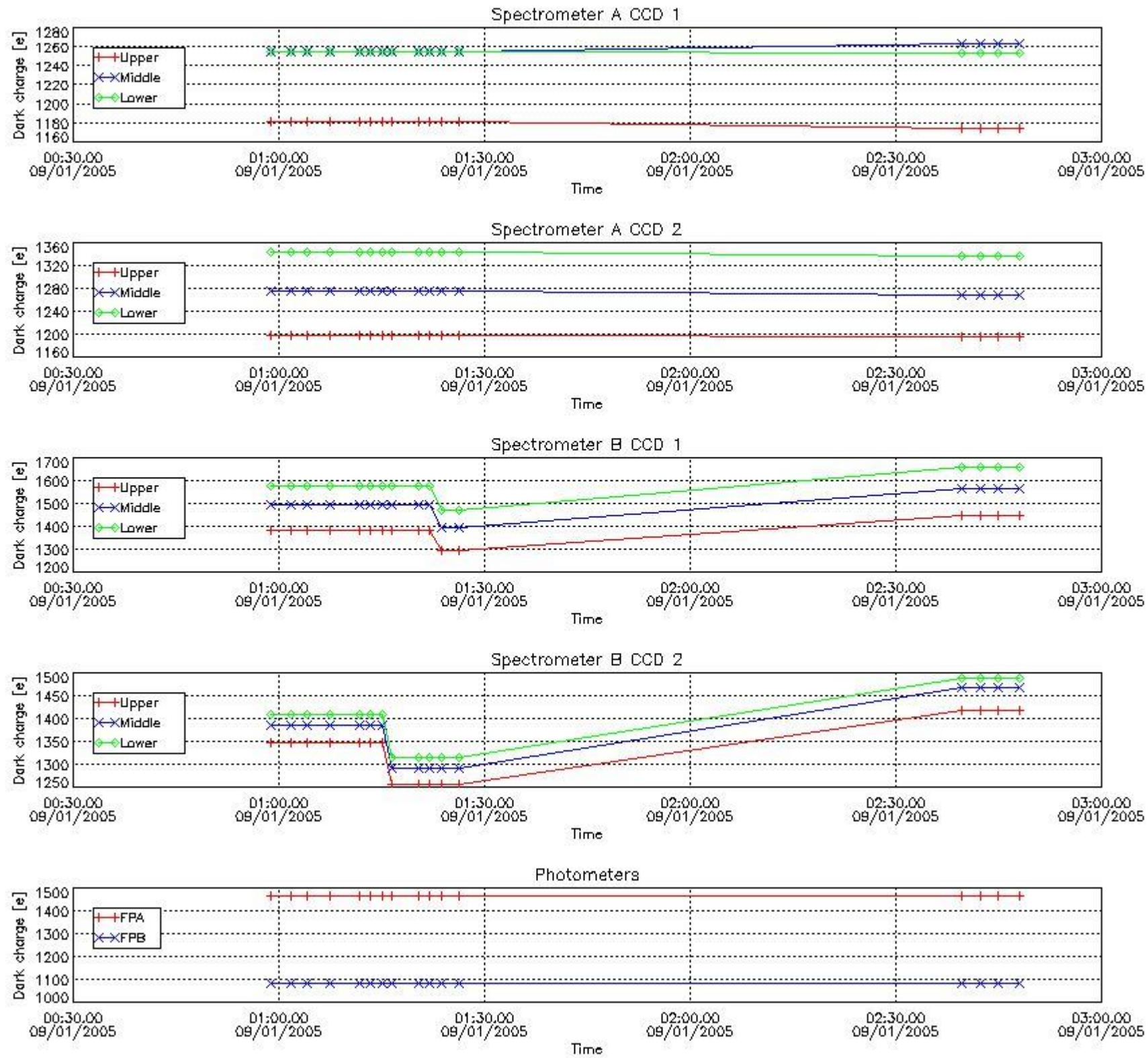
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





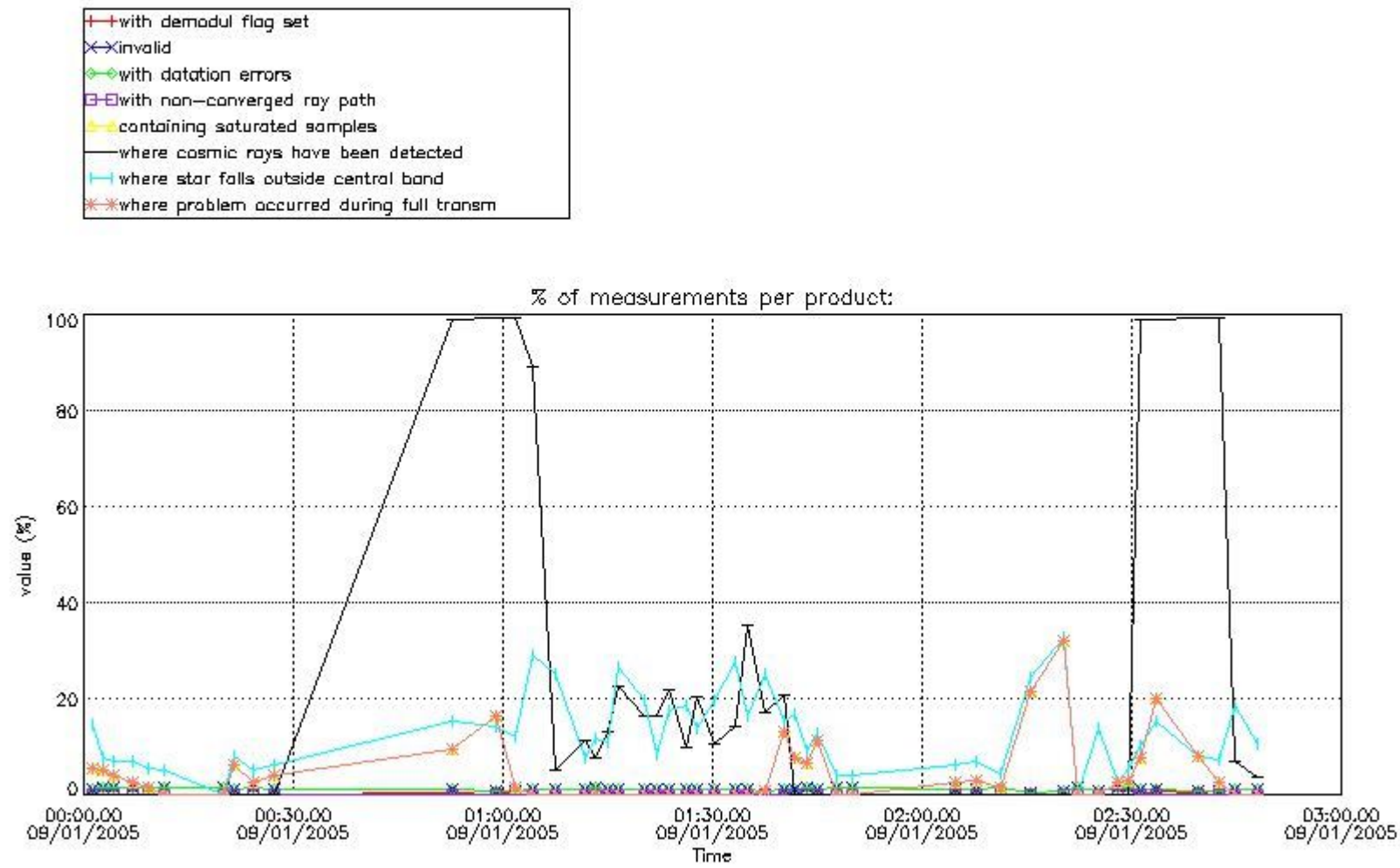
## 5. Demodulation flag and quality information monitoring

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.

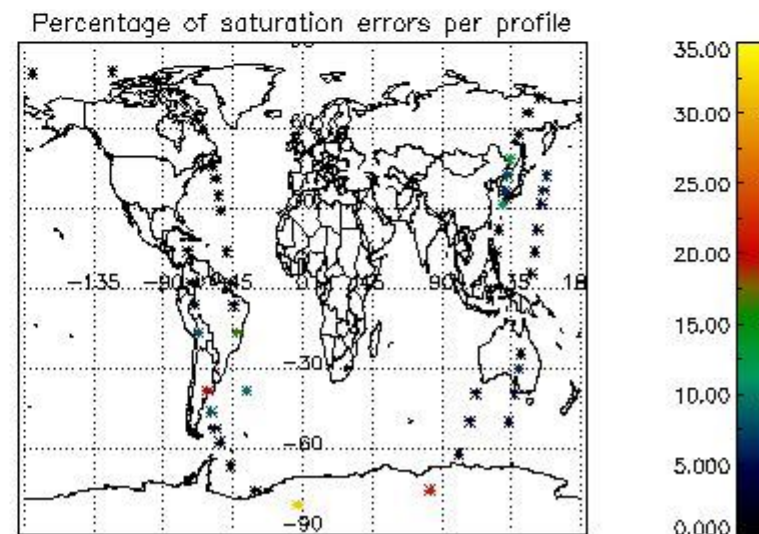
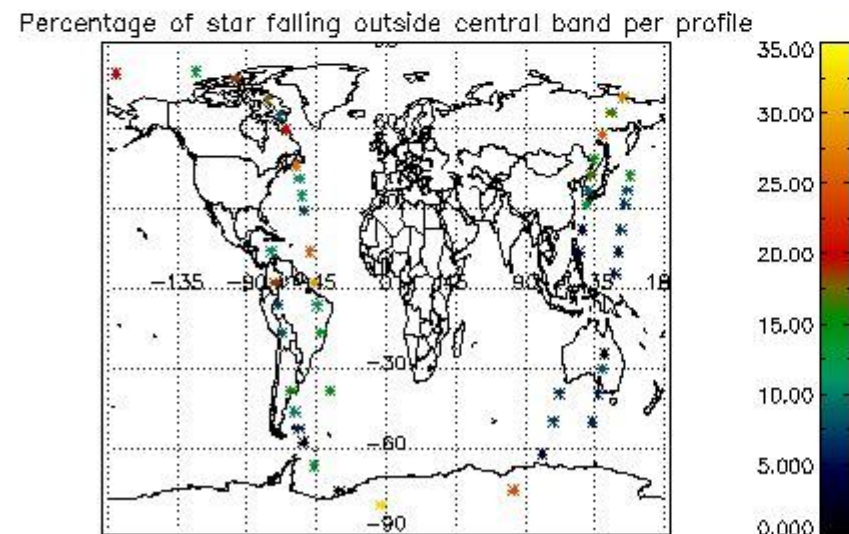
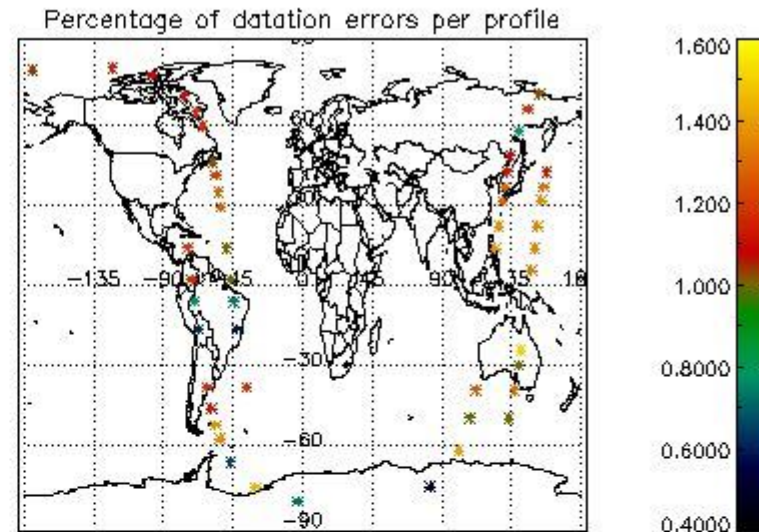
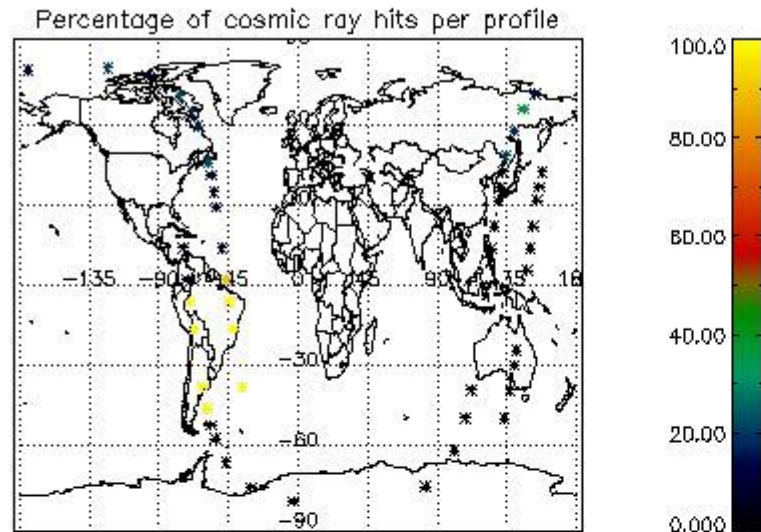
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)

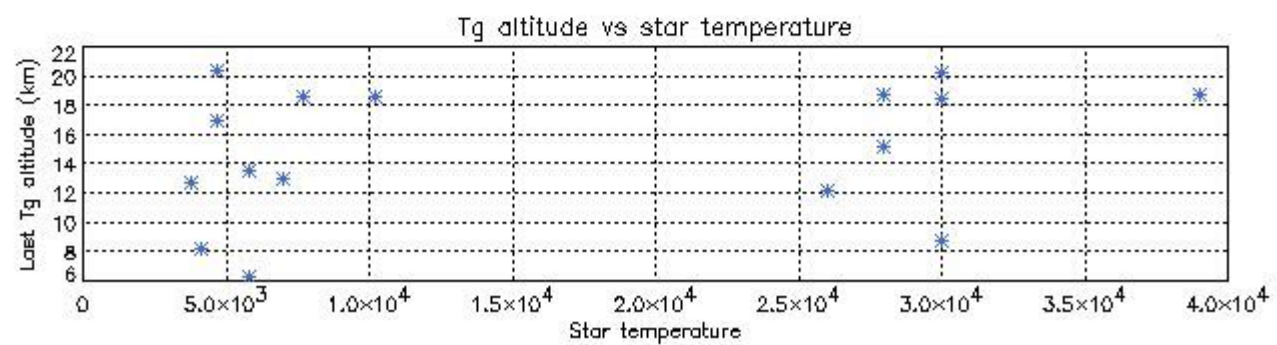
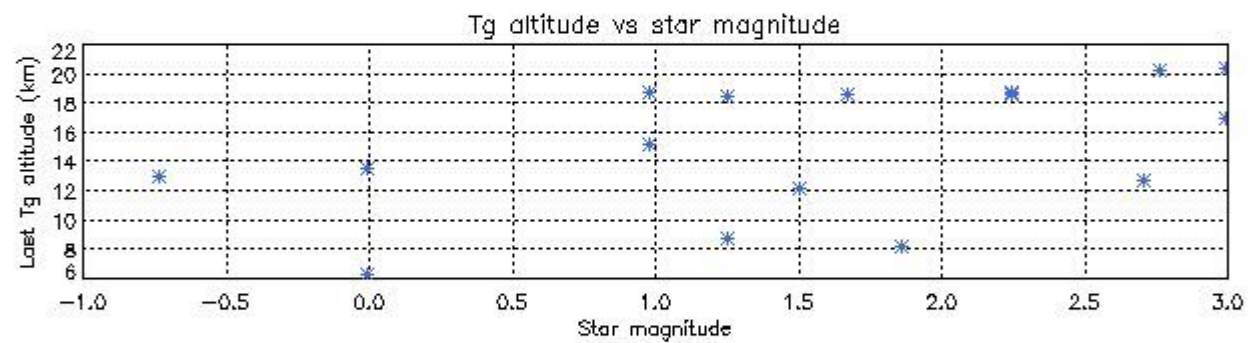
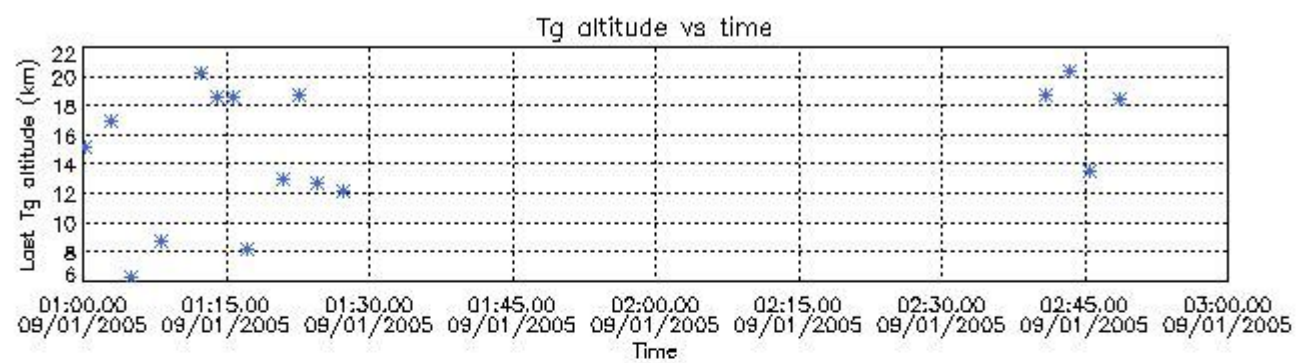
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.005	17.846	16.052
St. deviation:	4.5166	6.0139	4.3404
Maximum:	20.318	29.962	22.198
Minimum:	6.3103	4.8216	10.734
Number of data:	16.000	26.000	7.0000

### 6.2 Plot for DARK limb products

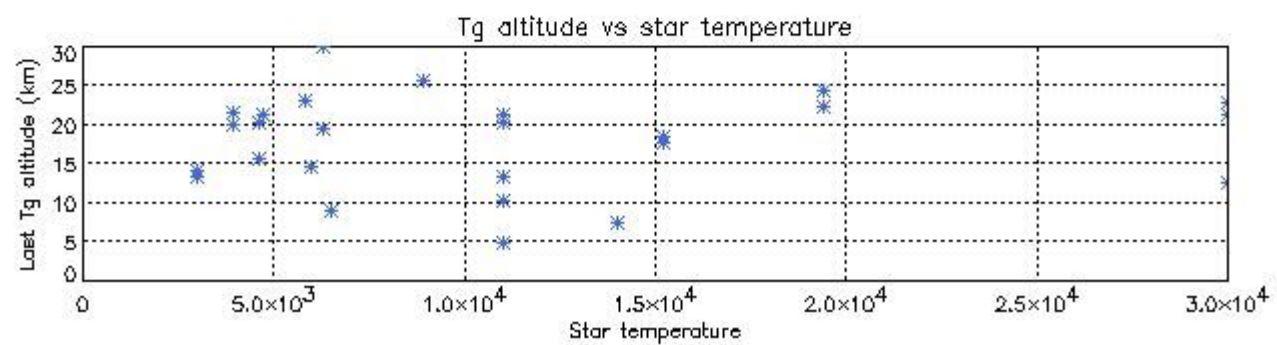
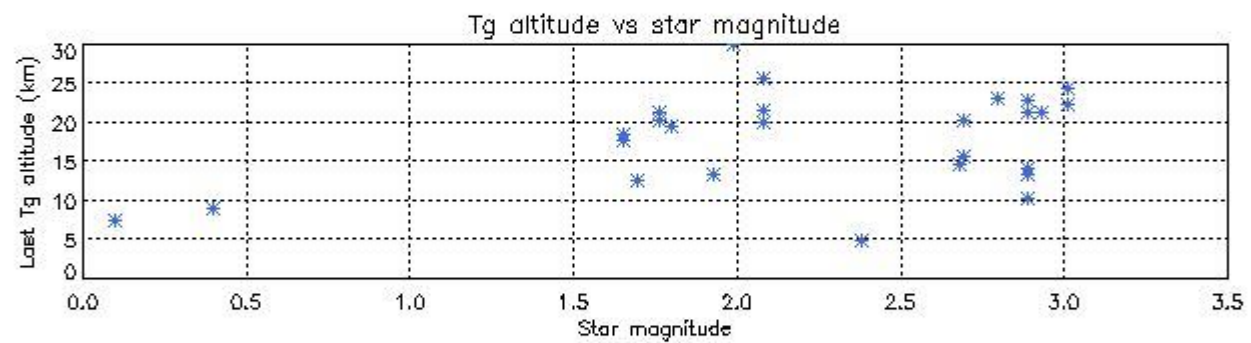
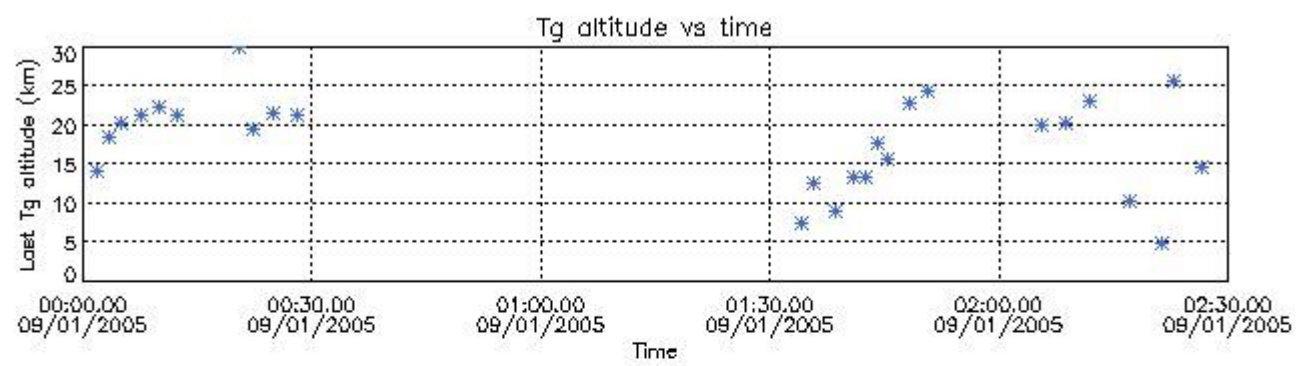


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

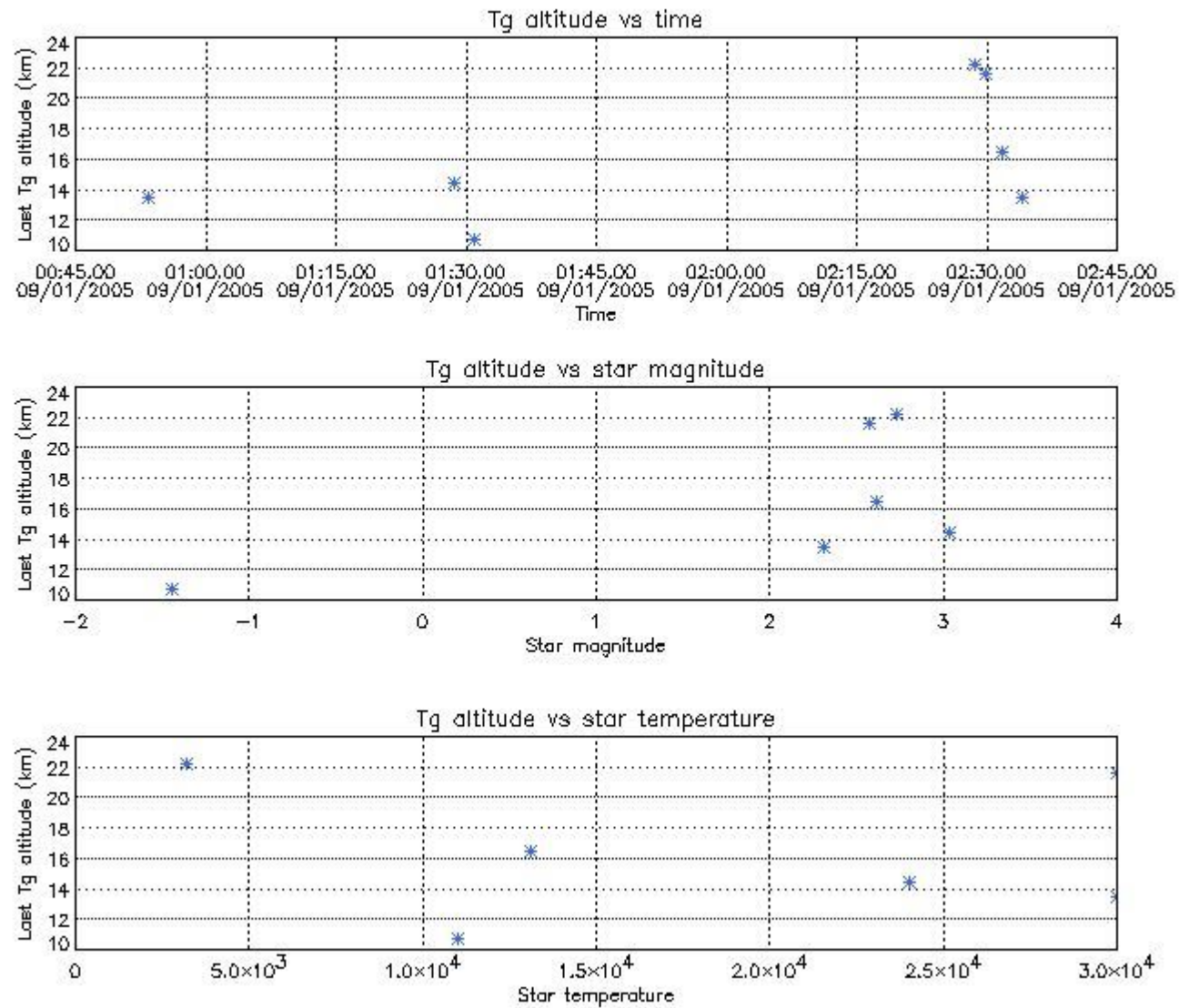
Tangent altitude at which the star is lost



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

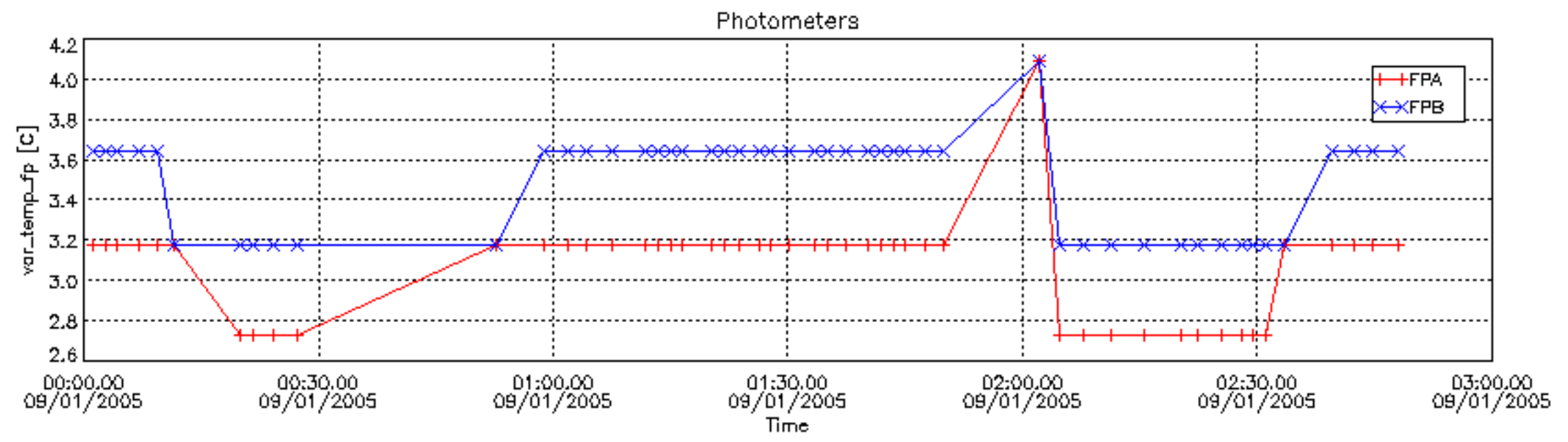
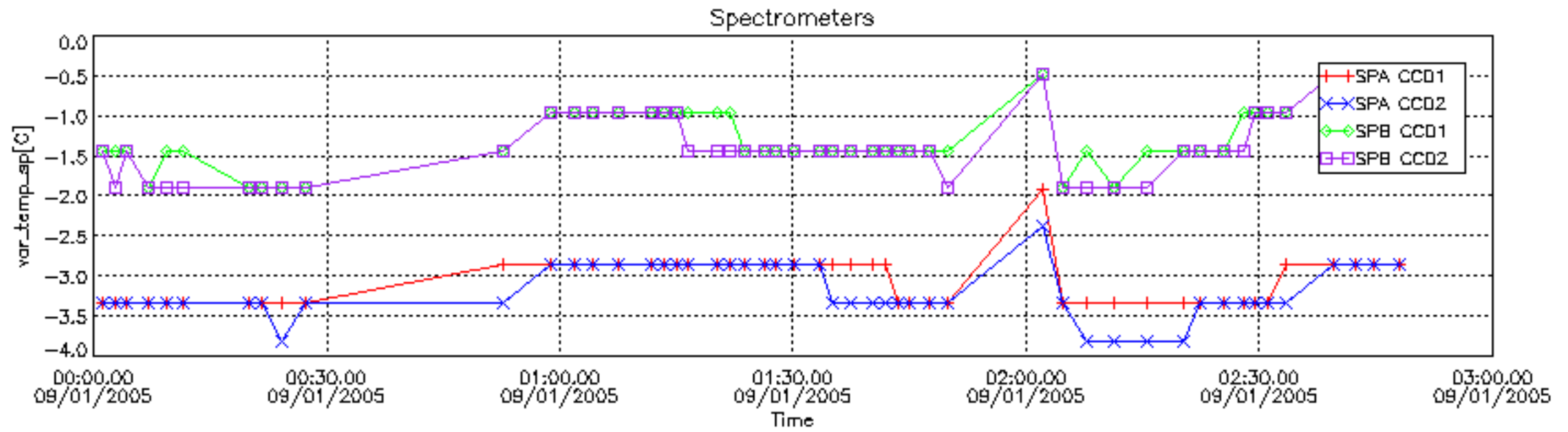
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

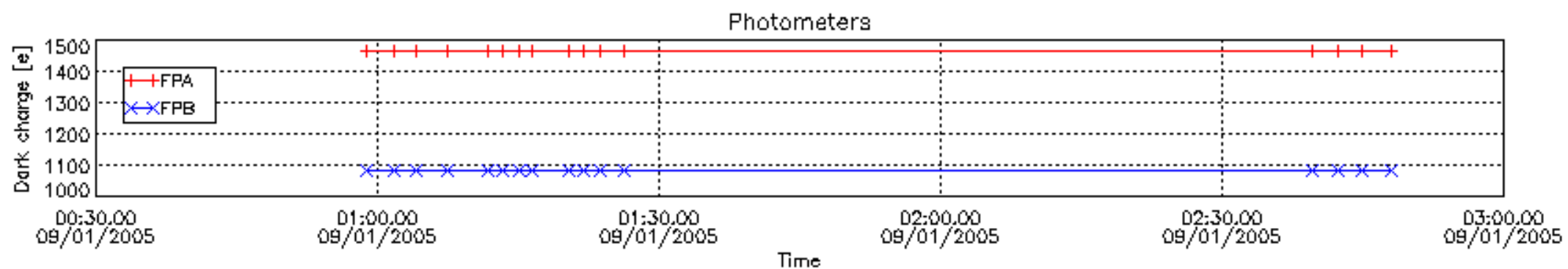
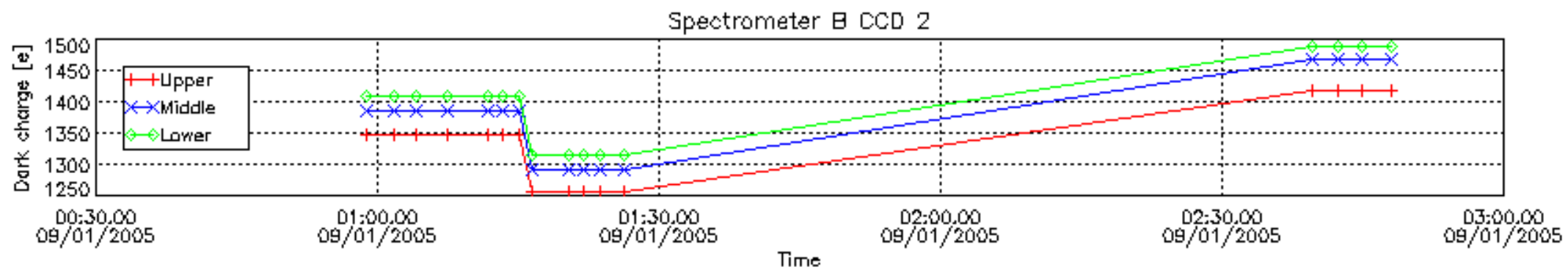
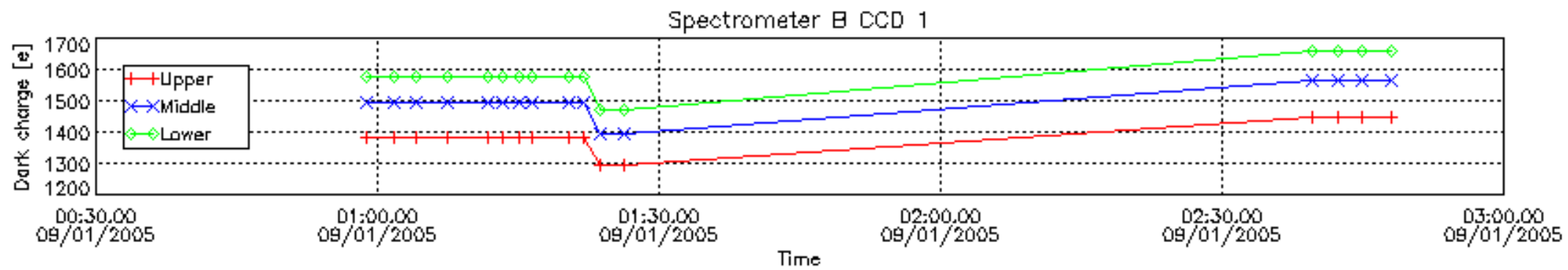
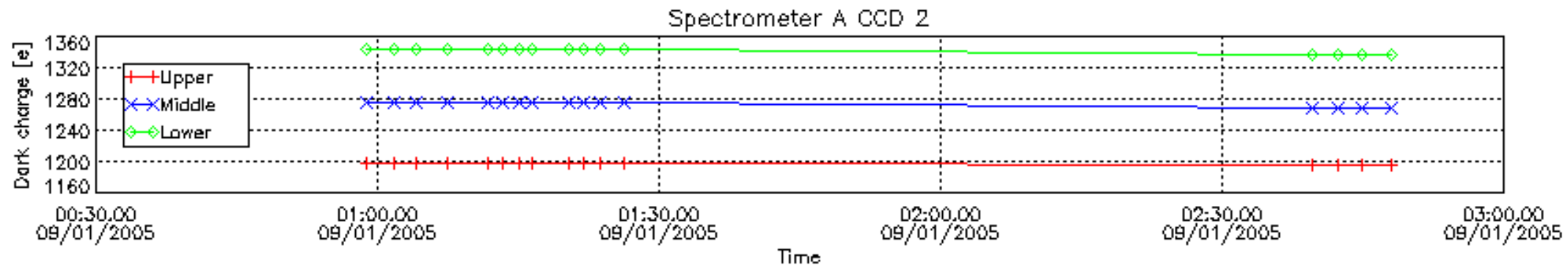
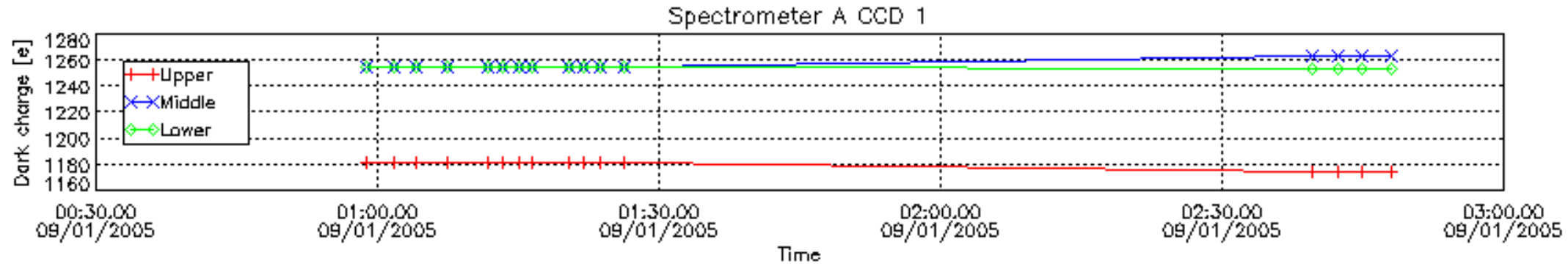
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1447.3	1460.8	1447.6
St. deviation:	4.3458	5.6527	6.9761	8.3663
Maximum:	1603.0	1542.0	1524.0	1504.0
Minimum:	1452.0	1430.0	1439.0	1426.0
Number of data:	19700.	19700.	28400.	28400.

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

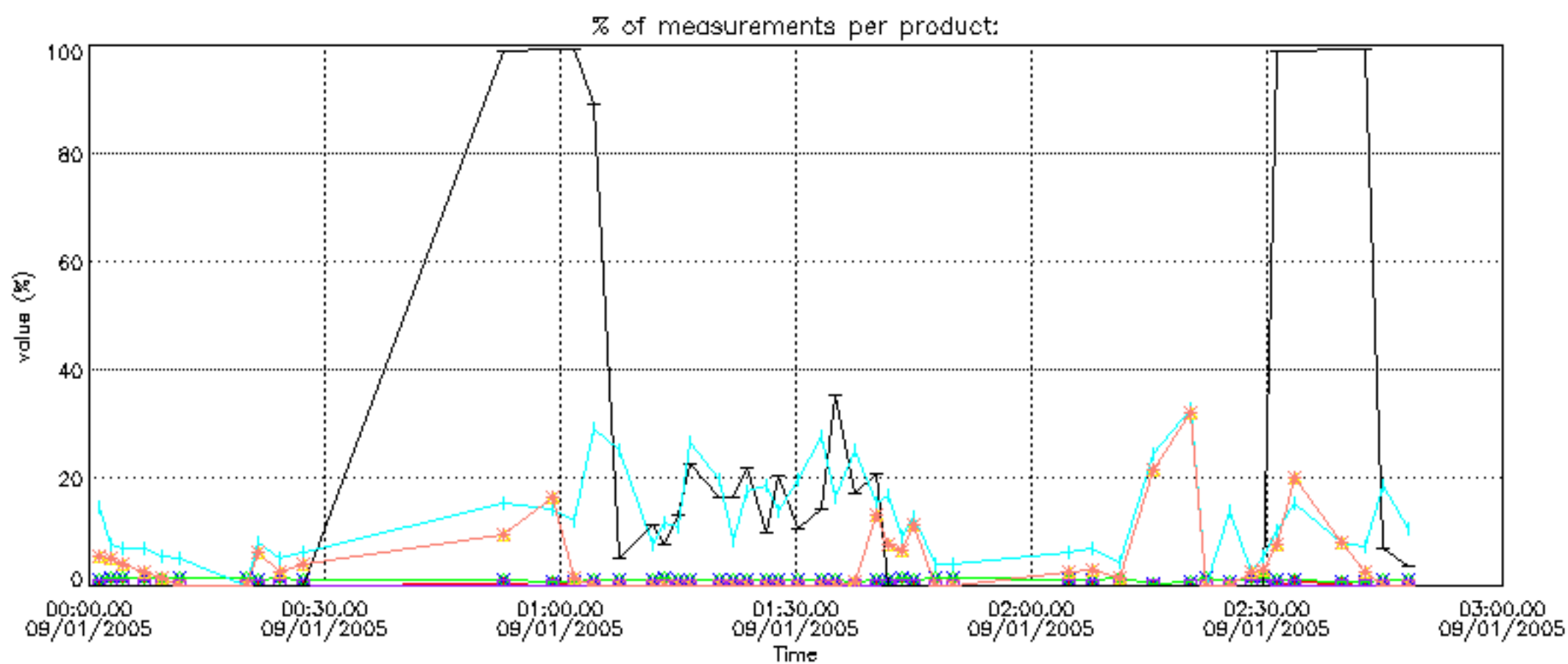
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	09-JAN-2005 00:01:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	09-JAN-2005 00:01:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	09-JAN-2005 00:01:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JAN-2005 00:01:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	09-JAN-2005 00:01:15
ECMWF_FILE	AUX_ECF_AXNECM20050108_070147_20050108_210000_20050109_090000	1	09-JAN-2005 00:01:15
OPTIONAL_ECMWF_FILE	NOT USED	1	09-JAN-2005 00:01:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050108_231018_20050108_182108_20050118_212800	1	09-JAN-2005 00:01:15

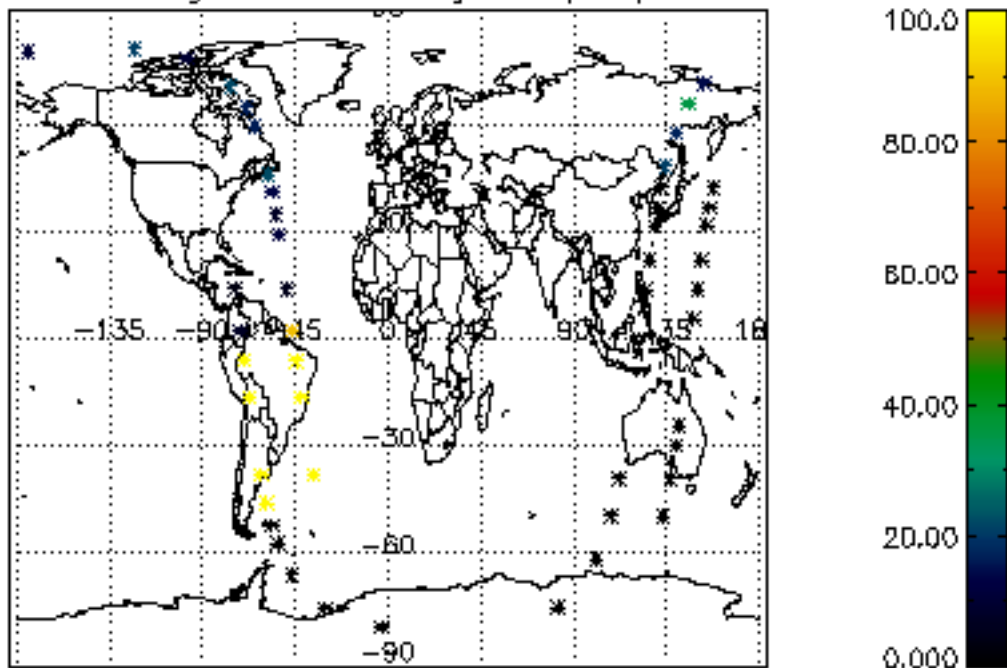




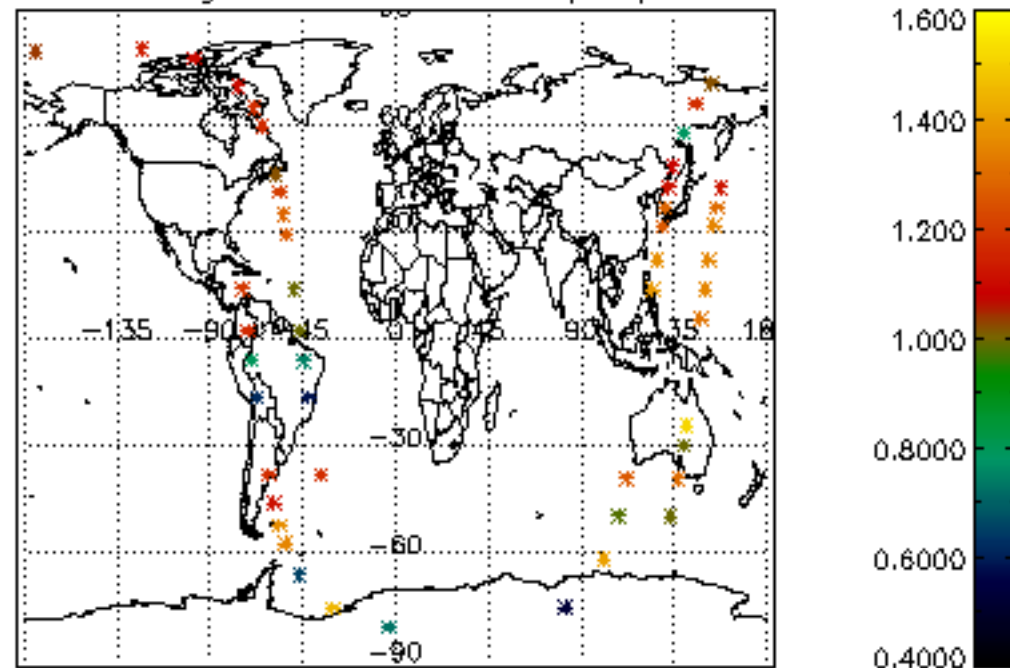




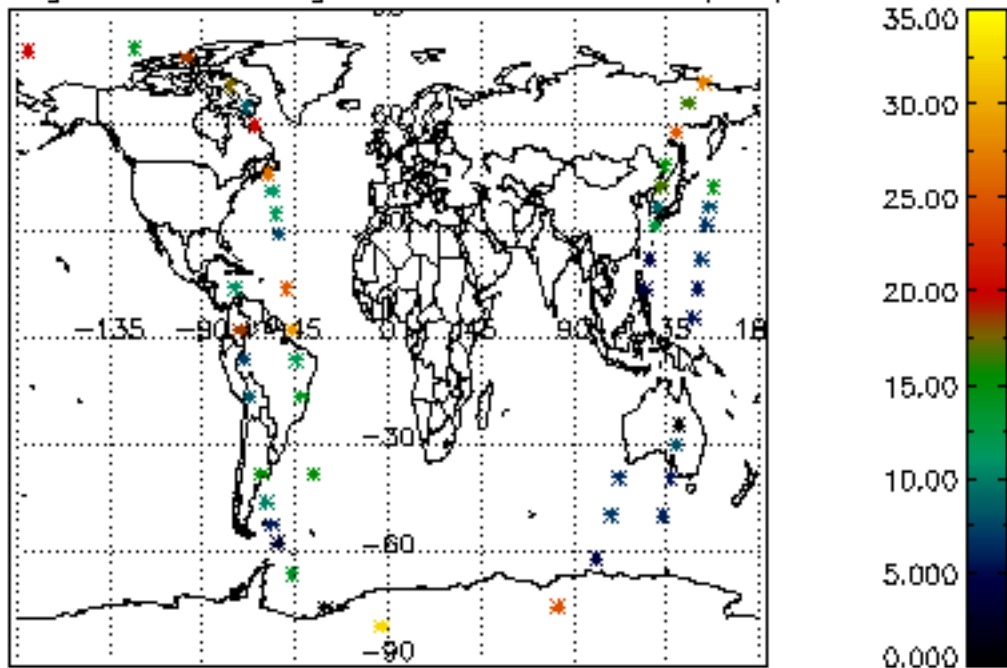
Percentage of cosmic ray hits per profile



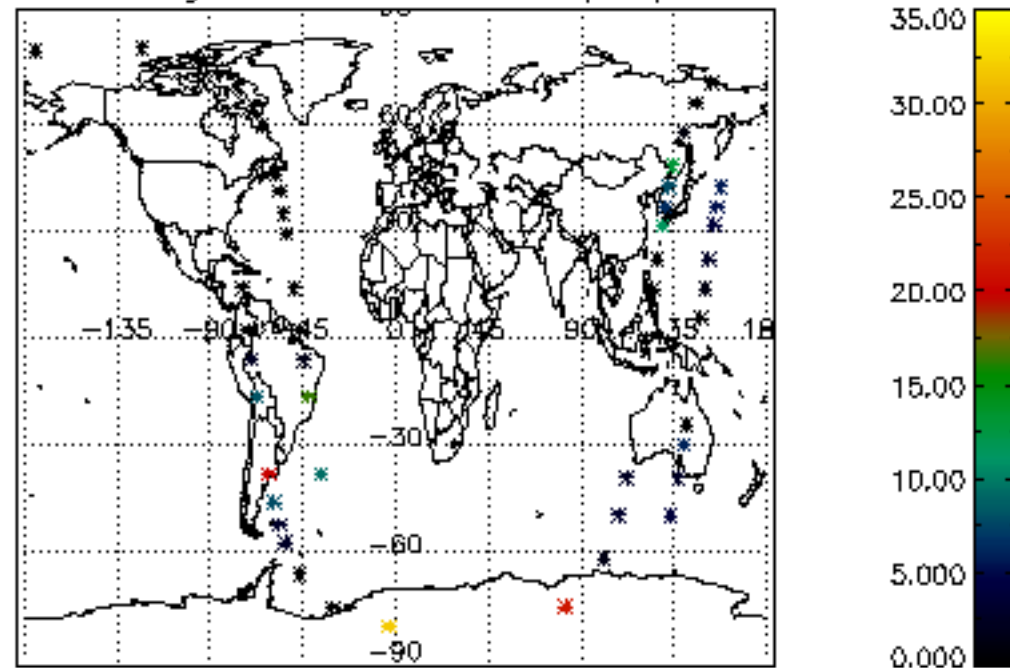
Percentage of datation errors per profile



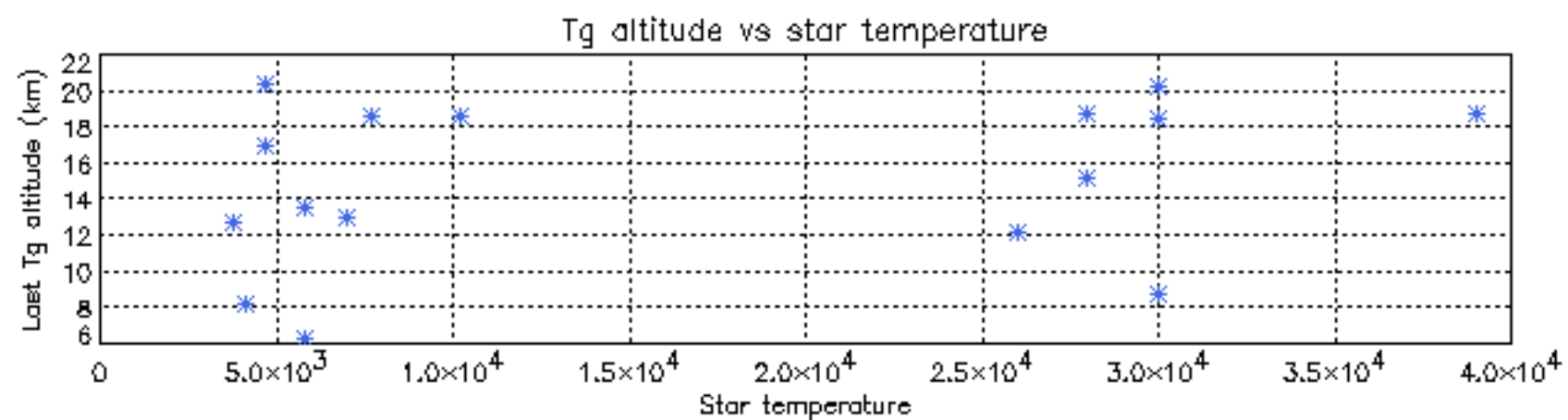
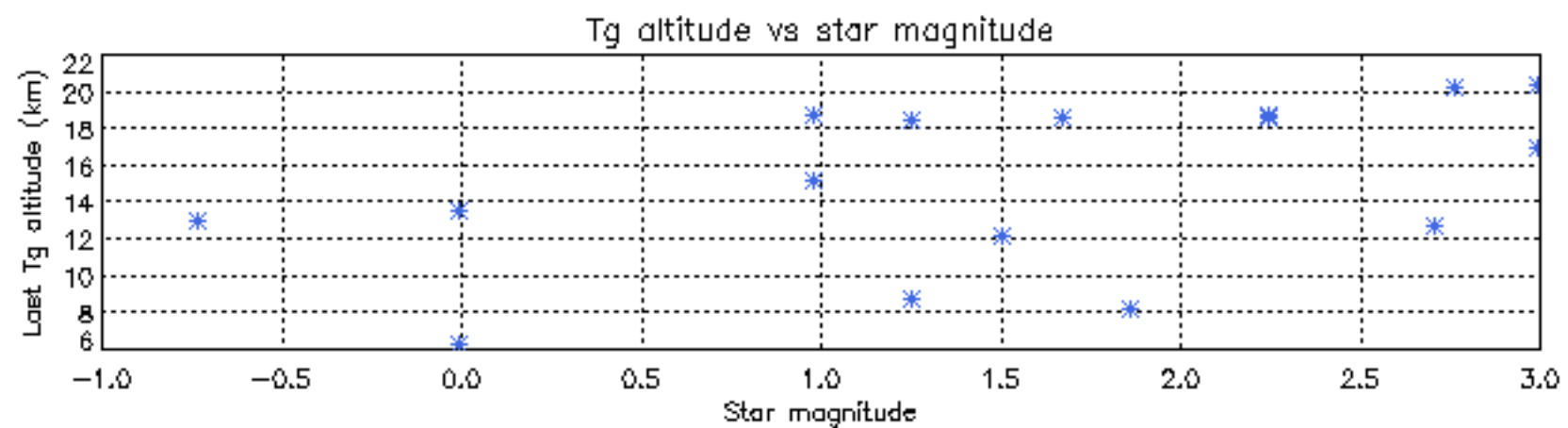
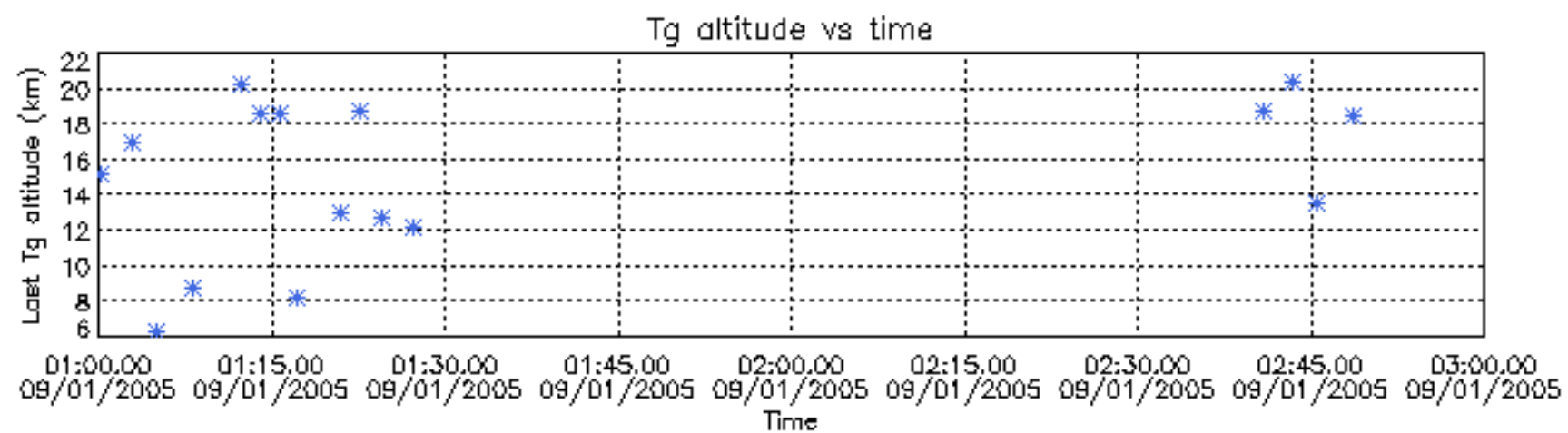
Percentage of star falling outside central band per profile



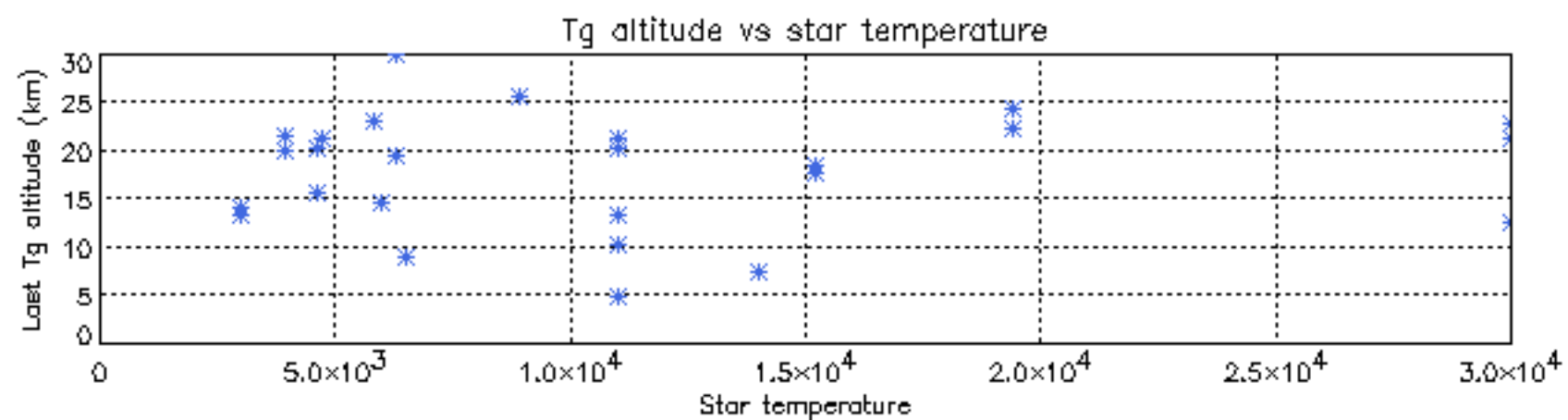
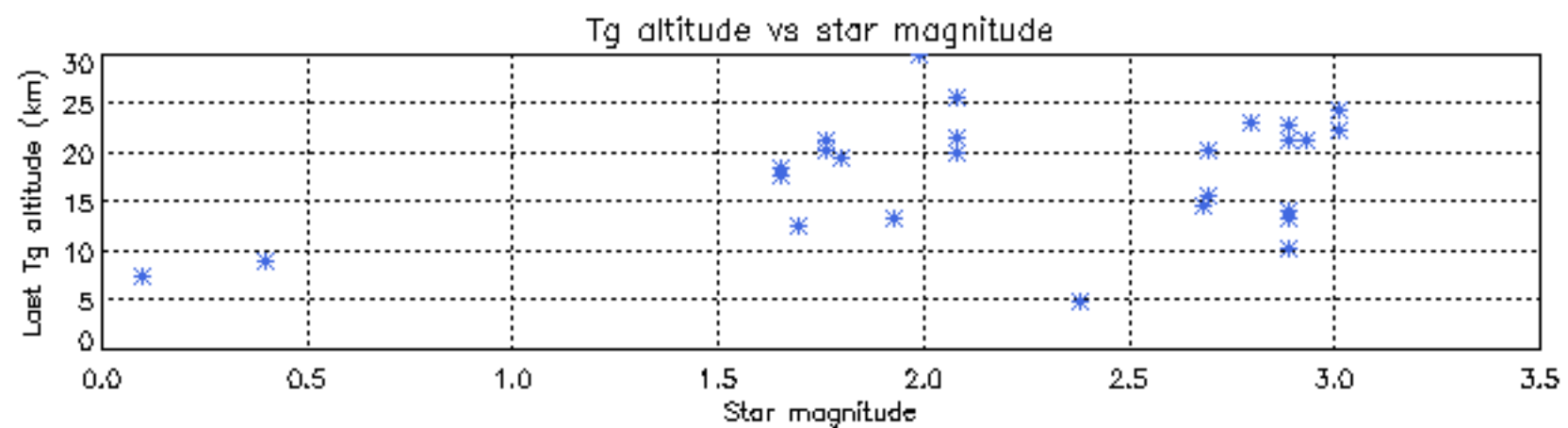
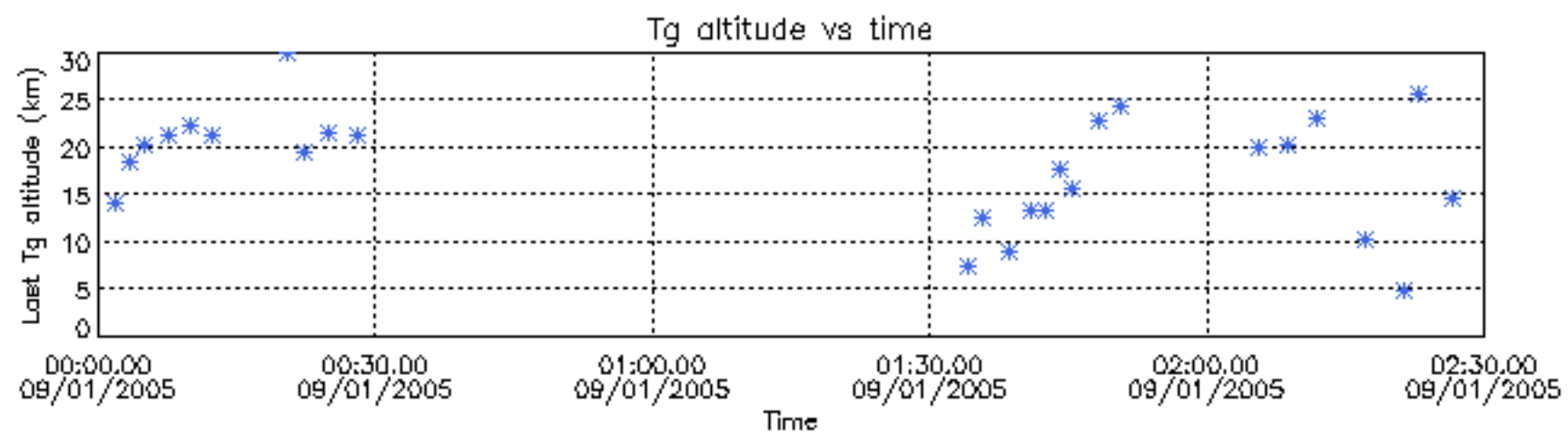
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

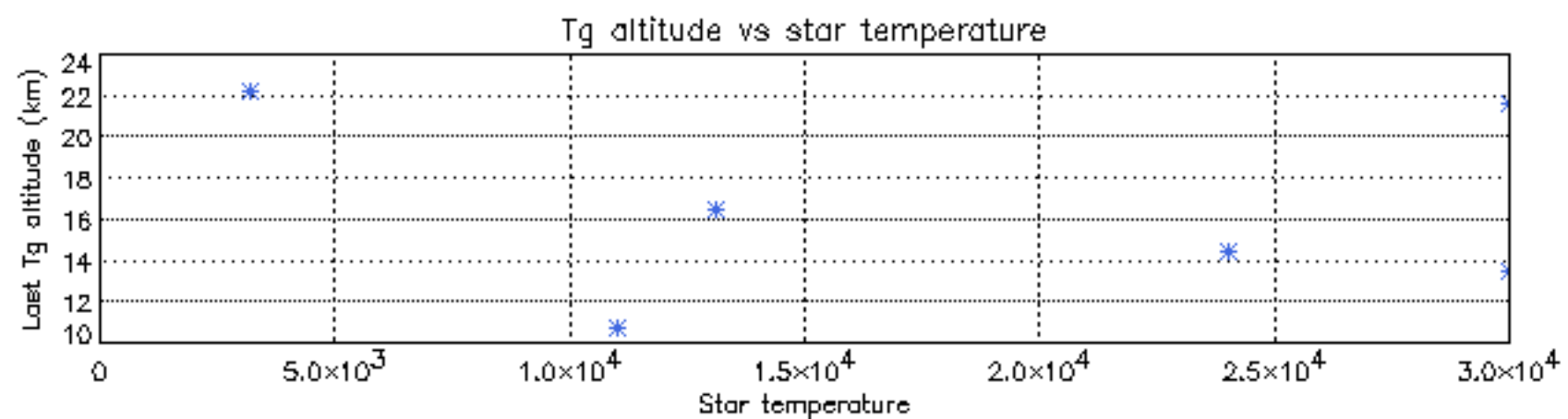
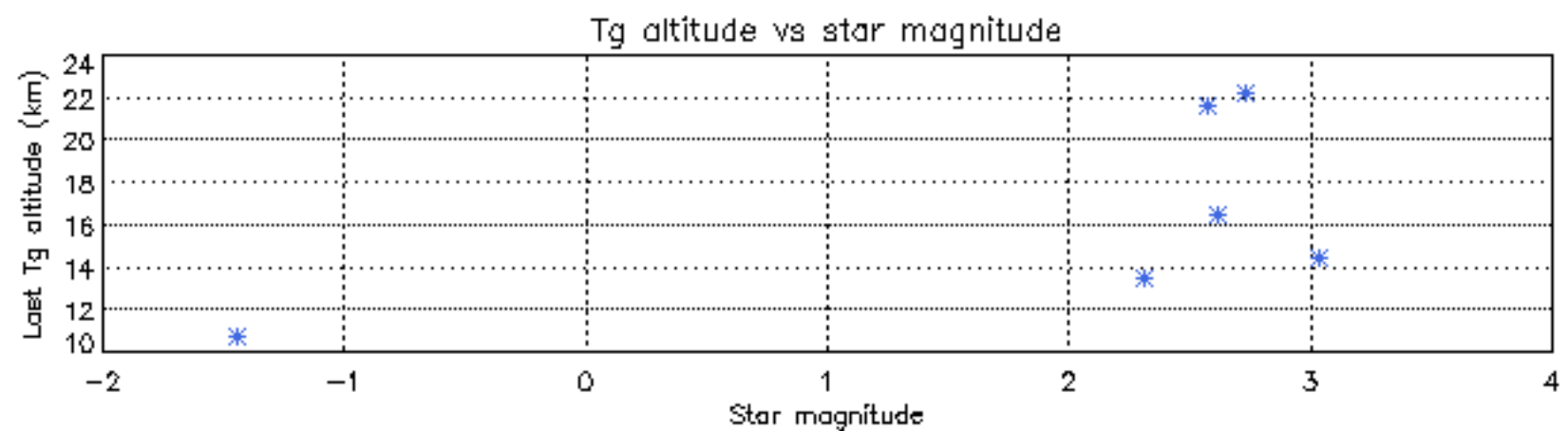
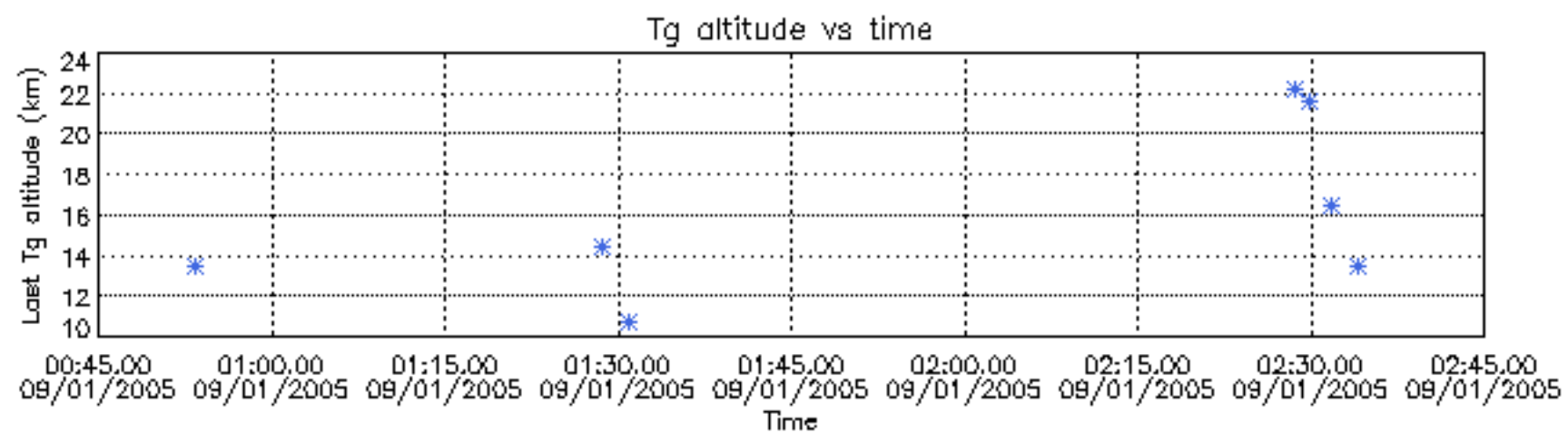


Tangent altitude at which the star is lost





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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 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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 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  
 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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1;-2444.4; 01-JAN-2005 02:55:08; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;14844  
 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  
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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  
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 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  
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 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  
 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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1;-2400.9; 01-JAN-2005 04:36:27; Bright; 51.0; 36; 50Alp UMA ; 1.80; 6300;occ; 102; 89;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  
 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  
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 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  
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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  
 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  
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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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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
33; 2564.2; 01-JAN-2005 05:59:13; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;14846
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36; 2878.0; 01-JAN-2005 06:04:26; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;14846
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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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
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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
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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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
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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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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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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
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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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15; 513.1; 12-JAN-2005 08:00:15; Dark ; 41.0; 124; The Car ; 2.76; 30000;occ; 82; 0;15005
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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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22; 1379.9; 12-JAN-2005 08:14:42; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;15005
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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
25; 2804.7; 12-JAN-2005 23:43:50; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;15014
26; 3422.6; 12-JAN-2005 23:54:08; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;15014

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 29; 4071.7; 13-JAN-2005 00:04:57; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;15014  
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 33; 4731.8; 13-JAN-2005 00:15:57; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;15014  
 34; 4961.7; 13-JAN-2005 00:19:47; Dark ; 91.5; 111; 8Eta Boo ; 2.68; 6000;occ; 183; 0;15014  
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 36; 5293.1; 13-JAN-2005 00:25:18; Dark ; 52.5; 104; 27Bet Lib ; 2.61; 13100;occ; 105; 0;15014

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 21;-746.7; 12-JAN-2005 14:21:39; Dark ; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;15008  
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 27; 369.4; 12-JAN-2005 14:40:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;15009  
 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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 33; 1121.3; 12-JAN-2005 14:52:47; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;15009  
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