

GOMOS Daily Report 11-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	13JAN2005 05:01:44

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (11JAN2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	2

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

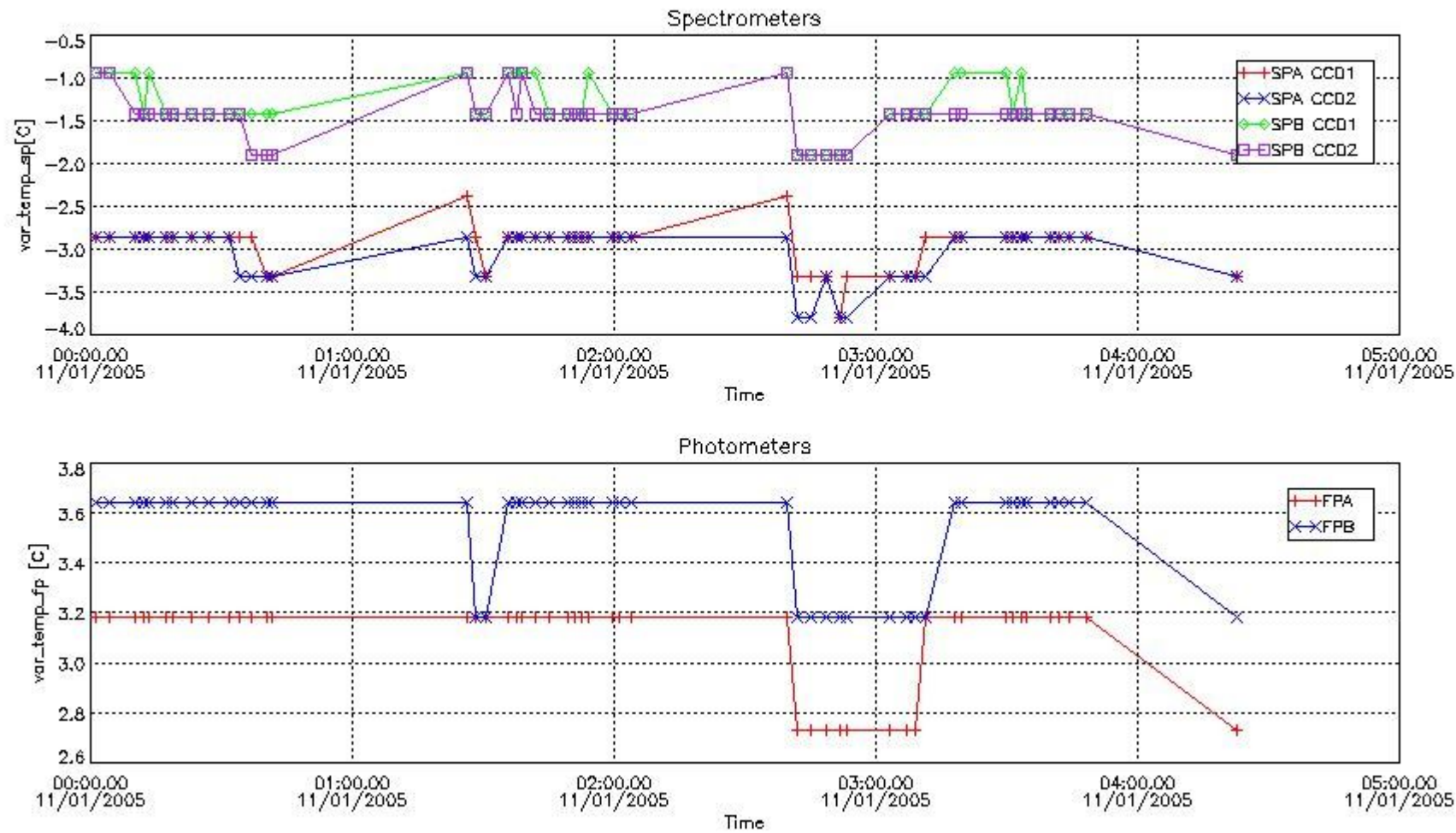
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20050111_000109_000000532033_00403_14986_0003.N1	11-JAN-2005 00:01:09	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	14986	No
2	GOM_TRA_1PNPDE20050111_000429_000000432033_00403_14986_0004.N1	11-JAN-2005 00:04:29	Dark	43.000	20	Bet Cru	1.2530	30000.	86	14986	No
3	GOM_TRA_1PNPDE20050111_001016_000000402033_00403_14986_0006.N1	11-JAN-2005 00:10:16	Dark	39.500	29	Bet Car	1.6720	10200.	79	14986	No
4	GOM_TRA_1PNPDE20050111_001202_000000442033_00403_14986_0007.N1	11-JAN-2005 00:12:02	Dark	44.000	71	Iot Car	2.2460	7700.0	88	14986	No
5	GOM_TRA_1PNPDE20050111_001324_000000522033_00403_14986_0008.N1	11-JAN-2005 00:13:24	Dark	52.000	41	Eps Car	1.8600	4100.0	104	14986	No
6	GOM_TRA_1PNPDE20050111_001711_000000482033_00403_14986_0009.N1	11-JAN-2005 00:17:11	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14986	No
7	GOM_TRA_1PNPDE20050111_001852_000000432033_00403_14986_0010.N1	11-JAN-2005 00:18:52	Dark	43.000	70	Zet Pup	2.2460	39000.	86	14986	No
8	GOM_TRA_1PNPDE20050111_002315_000000472033_00403_14986_0012.N1	11-JAN-2005 00:23:15	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	14986	No
9	GOM_TRA_1PNPDE20050111_002657_000000512033_00403_14986_0014.N1	11-JAN-2005 00:26:57	Twilight	51.000	1	9Alp CMa	-1.4400	11000.	102	14986	No
10	GOM_TRA_1PNPDE20050111_003154_000000422033_00403_14986_0016.N1	11-JAN-2005 00:31:54	Bright	42.000	30	46Eps Ori	1.6940	30000.	84	14986	No
11	GOM_TRA_1PNPDE20050111_003407_000000672033_00403_14986_0017.N1	11-JAN-2005 00:34:07	Bright	67.000	8	10Alp CMI	0.40000	6500.0	134	14986	No
12	GOM_TRA_1PNPDE20050111_003652_000000462033_00403_14986_0018.N1	11-JAN-2005 00:36:52	Bright	46.000	44	24Gam Gem	1.9280	11000.	92	14986	No
13	GOM_TRA_1PNPDE20050111_004012_000000412033_00403_14986_0020.N1	11-JAN-2005 00:40:12	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	14986	No
14	GOM_TRA_1PNPDE20050111_004143_000000412033_00403_14986_0021.N1	11-JAN-2005 00:41:43	Bright	40.500	114	3Iot Aur	2.6930	4600.0	81	14986	No
15	GOM_TRA_1PNPDE20050111_012617_000000522033_00403_14986_0000.N1	11-JAN-2005 01:26:17	Twilight	52.000	98	13Zet Oph	2.5710	30000.	104	14986	Yes
16	GOM_TRA_1PNPDE20050111_012813_000000482033_00403_14986_0001.N1	11-JAN-2005 01:28:13	Twilight	47.500	104	27Bet Lib	2.6140	13100.	95	14986	No
17	GOM_TRA_1PNPDE20050111_013043_000000522033_00403_14986_0002.N1	11-JAN-2005 01:30:43	Twilight	51.500	16	21Alp Sco	1.0200	3000.0	103	14986	No
18	GOM_TRA_1PNPDE20050111_013550_000000402033_00403_14986_0003.N1	11-JAN-2005 01:35:50	Twilight	40.000	131	Gam Lup	2.8000	26000.	80	14986	No
19	GOM_TRA_1PNPDE20050111_013727_000000422033_00403_14986_0004.N1	11-JAN-2005 01:37:27	Dark	41.500	109	Bet Lup	2.6770	26000.	83	14986	No
20	GOM_TRA_1PNPDE20050111_013858_000000442033_00403_14986_0005.N1	11-JAN-2005 01:38:58	Dark	43.500	78	Alp Lup	2.3040	28000.	87	14986	No
21	GOM_TRA_1PNPDE20050111_014146_000000422033_00404_14987_0006.N1	11-JAN-2005 01:41:46	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	14987	No
22	GOM_TRA_1PNPDE20050111_014505_000000472033_00404_14987_0007.N1	11-JAN-2005 01:45:05	Dark	46.500	20	Bet Cru	1.2530	30000.	93	14987	No
23	GOM_TRA_1PNPDE20050111_014920_000000392033_00404_14987_0008.N1	11-JAN-2005 01:49:20	Dark	38.500	124	The Car	2.7640	30000.	77	14987	No
24	GOM_TRA_1PNPDE20050111_015052_000000432033_00404_14987_0009.N1	11-JAN-2005 01:50:52	Dark	42.500	29	Bet Car	1.6720	10200.	85	14987	No
25	GOM_TRA_1PNPDE20050111_015239_000000422033_00404_14987_0010.N1	11-JAN-2005 01:52:39	Dark	42.000	71	Iot Car	2.2460	7700.0	84	14987	No
26	GOM_TRA_1PNPDE20050111_015400_000000502033_00404_14987_0011.N1	11-JAN-2005 01:54:00	Dark	49.500	41	Eps Car	1.8600	4100.0	99	14987	No
27	GOM_TRA_1PNPDE20050111_015928_000000442033_00404_14987_0013.N1	11-JAN-2005 01:59:28	Dark	43.500	70	Zet Pup	2.2460	39000.	87	14987	No
28	GOM_TRA_1PNPDE20050111_020114_000000482033_00404_14987_0014.N1	11-JAN-2005 02:01:14	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	14987	No
29	GOM_TRA_1PNPDE20050111_020351_000000452033_00404_14987_0015.N1	11-JAN-2005 02:03:51	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	14987	No
30	GOM_TRA_1PNPDE20050111_023938_000000532033_00404_14987_0000.N1	11-JAN-2005 02:39:38	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	14987	Yes
31	GOM_TRA_1PNPDE20050111_024206_000000402033_00404_14987_0001.N1	11-JAN-2005 02:42:06	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14987	No
32	GOM_TRA_1PNPDE20050111_024454_000000502033_00404_14987_0002.N1	11-JAN-2005 02:44:54	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	14987	No
33	GOM_TRA_1PNPDE20050111_024844_000000362033_00404_14987_0003.N1	11-JAN-2005 02:48:44	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	14987	No
34	GOM_TRA_1PNPDE20050111_025145_000000362033_00404_14987_0004.N1	11-JAN-2005 02:51:45	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	14987	No
35	GOM_TRA_1PNPDE20050111_025329_000000712033_00404_14987_0005.N1	11-JAN-2005 02:53:29	Bright	71.000	180	27Gam Boo	3.0400	8000.0	142	14987	No
36	GOM_TRA_1PNPDE20050111_030308_000000792033_00404_14987_0008.N1	11-JAN-2005 03:03:08	Bright	78.500	111	8Eta Boo	2.6800	6000.0	157	14987	No
37	GOM_TRA_1PNPDE20050111_030653_000000372033_00404_14987_0009.N1	11-JAN-2005 03:06:53	Twilight	37.000	98	13Zet Oph	2.5710	30000.	74	14987	No
38	GOM_TRA_1PNPDE20050111_030849_000000482033_00404_14987_0010.N1	11-JAN-2005 03:08:49	Twilight	47.500	104	27Bet Lib	2.6140	13100.	95	14987	No
39	GOM_TRA_1PNPDE20050111_031117_000000512033_00404_14987_0011.N1	11-JAN-2005 03:11:17	Twilight	51.000	16	21Alp Sco	1.0200	3000.0	102	14987	No
40	GOM_TRA_1PNPDE20050111_031801_000000432033_00404_14987_0013.N1	11-JAN-2005 03:18:01	Dark	42.500	109	Bet Lup	2.6770	26000.	85	14987	No
41	GOM_TRA_1PNPDE20050111_031935_000000422033_00404_14987_0014.N1	11-JAN-2005 03:19:35	Dark	41.500	78	Alp Lup	2.3040	28000.	83	14987	No
42	GOM_TRA_1PNPDE20050111_032956_000000392033_00405_14988_0017.N1	11-JAN-2005 03:29:56	Dark	38.500	124	The Car	2.7640	30000.	77	14988	No
43	GOM_TRA_1PNPDE20050111_033129_000000462033_00405_14988_0018.N1	11-JAN-2005 03:31:29	Dark	46.000	29	Bet Car	1.6720	10200.	92	14988	No
44	GOM_TRA_1PNPDE20050111_033315_000000402033_00405_14988_0019.N1	11-JAN-2005 03:33:15	Dark	40.000	71	Iot Car	2.2460	7700.0	80	14988	No
45	GOM_TRA_1PNPDE20050111_033437_000000422033_00405_14988_0020.N1	11-JAN-2005 03:34:37	Dark	41.500	41	Eps Car	1.8600	4100.0	83	14988	No
46	GOM_TRA_1PNPDE20050111_034004_000000452033_00405_14988_0022.N1	11-JAN-2005 03:40:04	Dark	44.500	70	Zet Pup	2.2460	39000.	89	14988	No

47	GOM_TRA_1PNPDE20050111_034150_000000432033_00405_14988_0023.N1	11-JAN-2005 03:41:50	Dark	42.500	117	Pi Pup	2.7060	3800.0	85	14988	No
48	GOM_TRA_1PNPDE20050111_034427_000000452033_00405_14988_0024.N1	11-JAN-2005 03:44:27	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	14988	No
49	GOM_TRA_1PNPDE20050111_034810_000000462033_00405_14988_0026.N1	11-JAN-2005 03:48:10	Twilight	46.000	1	9Alp CMa	-1.4400	11000.	92	14988	No
50	GOM_TRA_1PNPDE20050111_042242_000000402033_00405_14988_0000.N1	11-JAN-2005 04:22:42	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14988	No

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



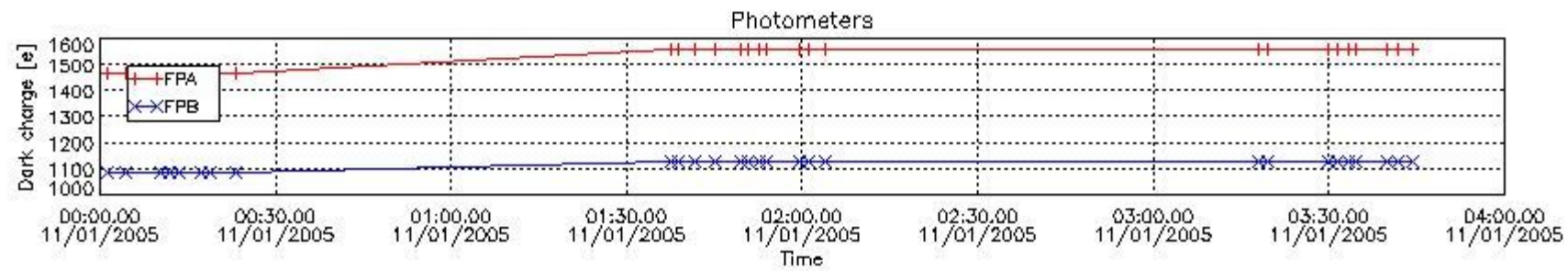
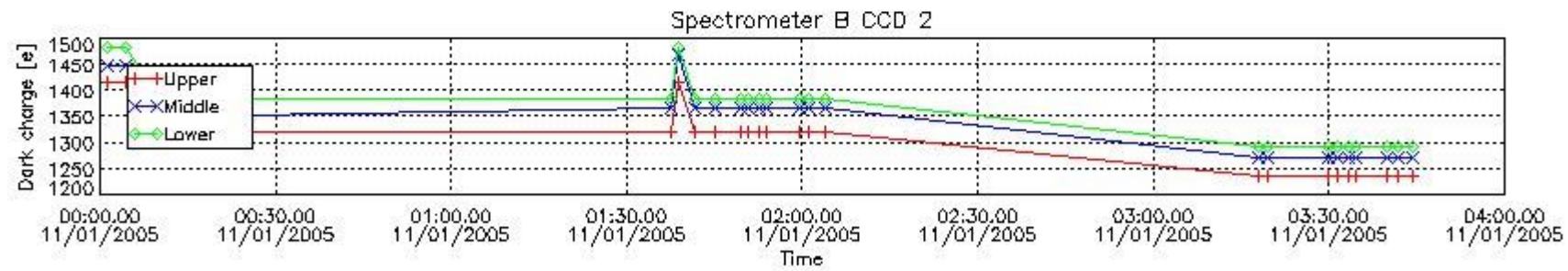
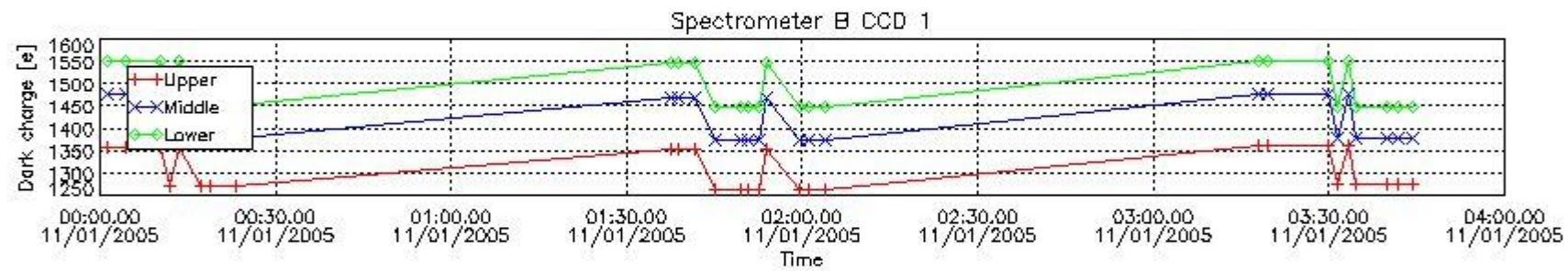
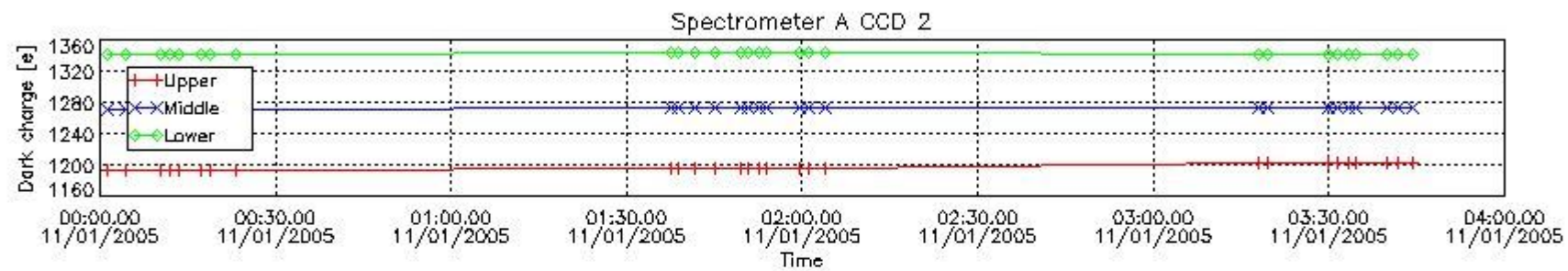
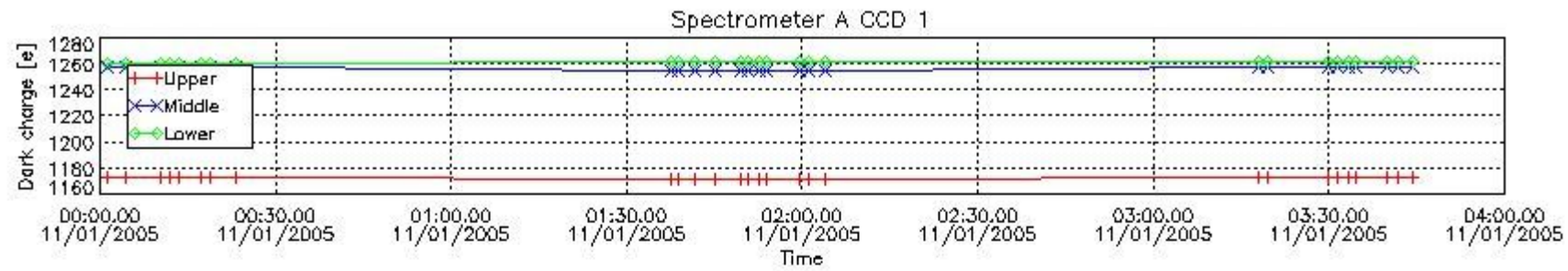
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



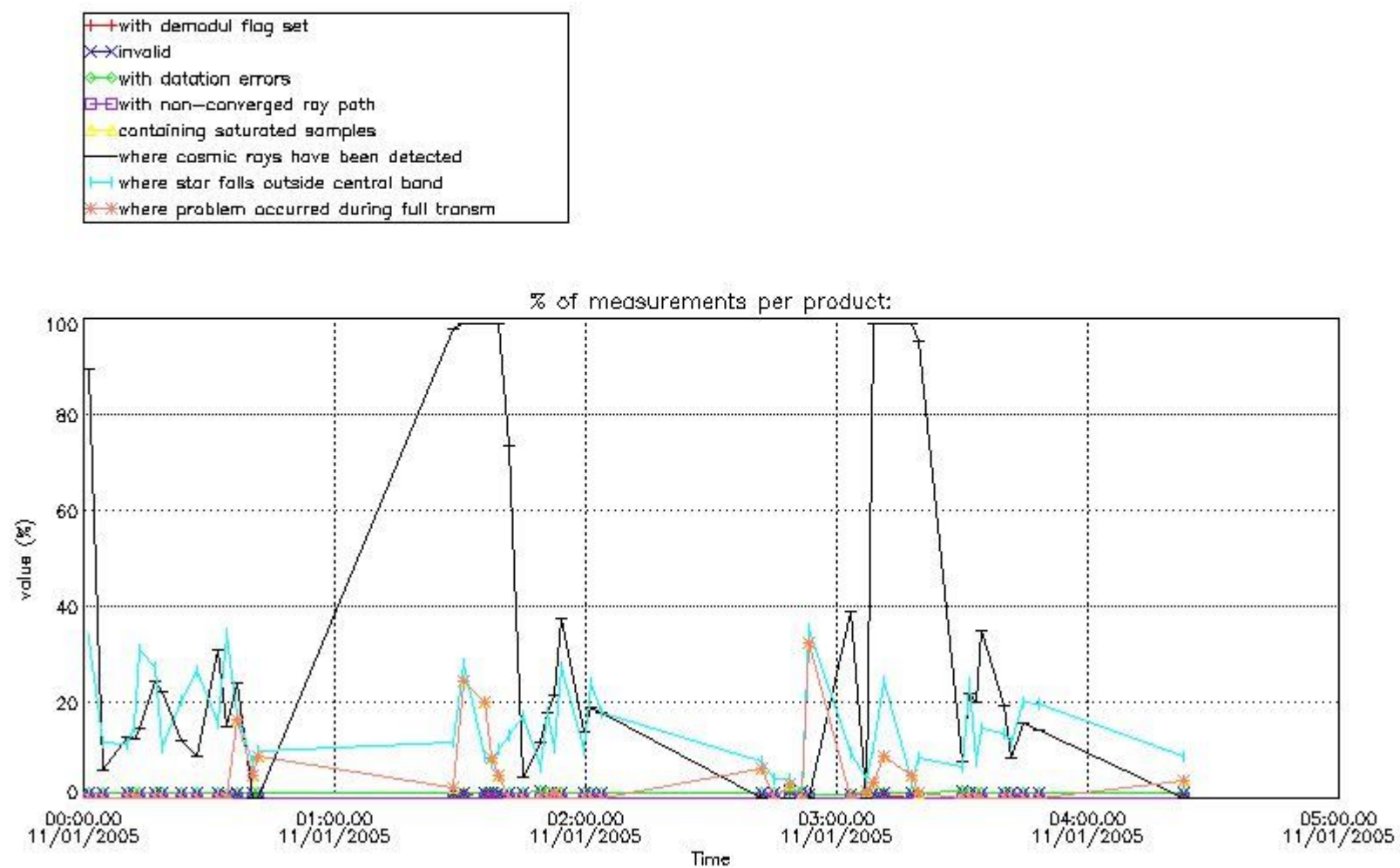
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

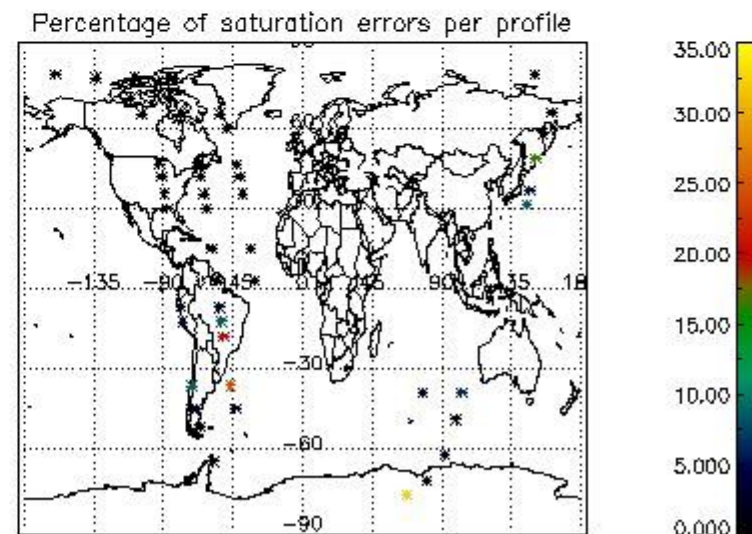
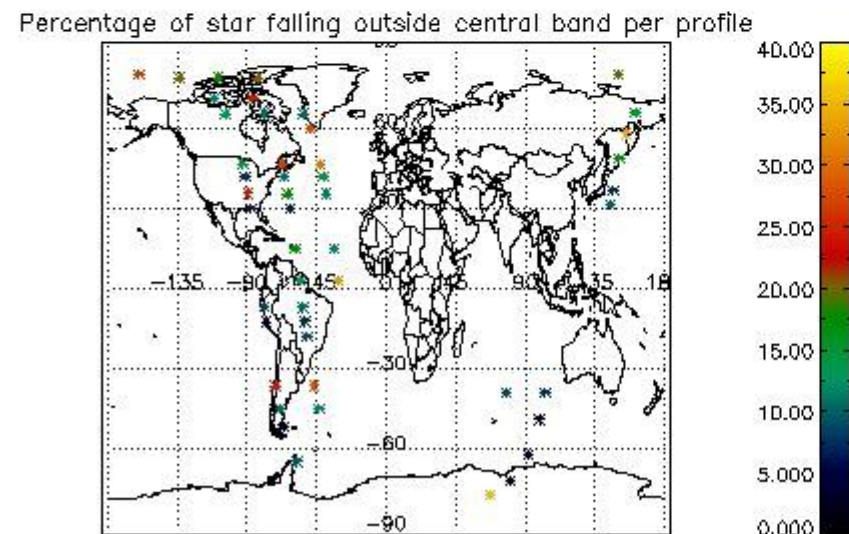
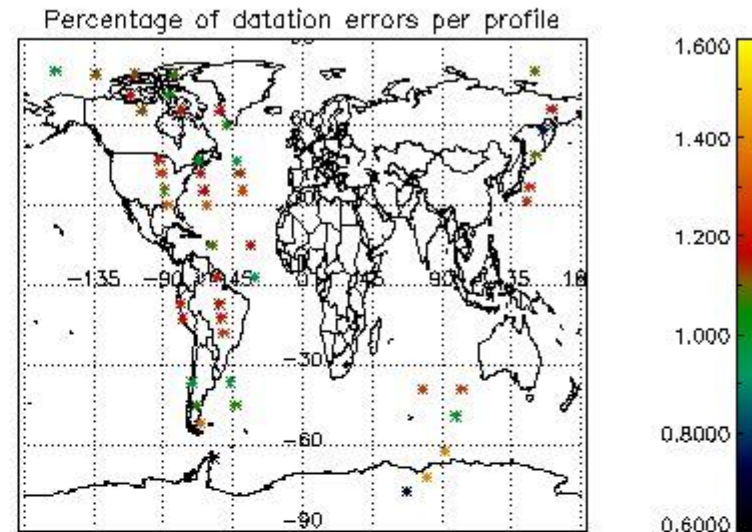
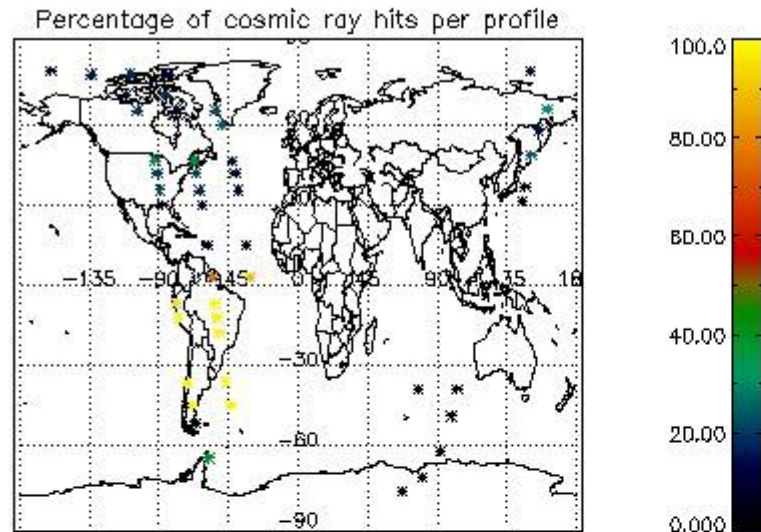
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.2500 %
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)



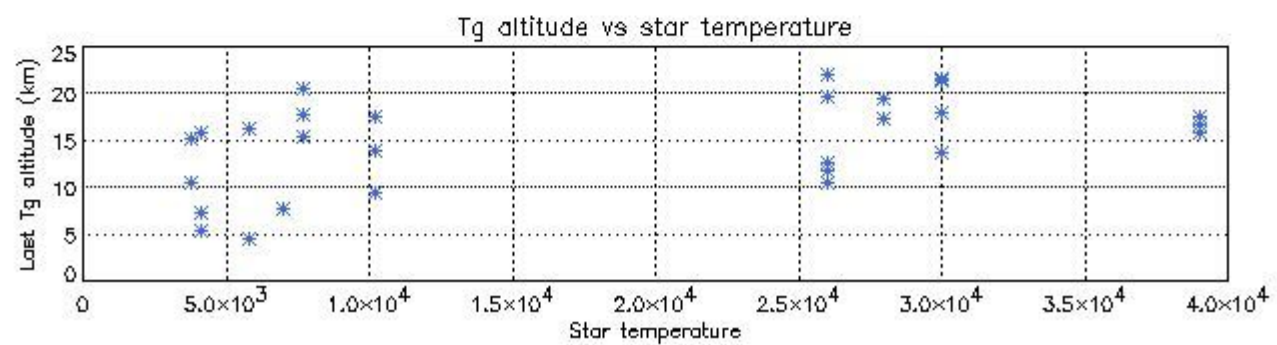
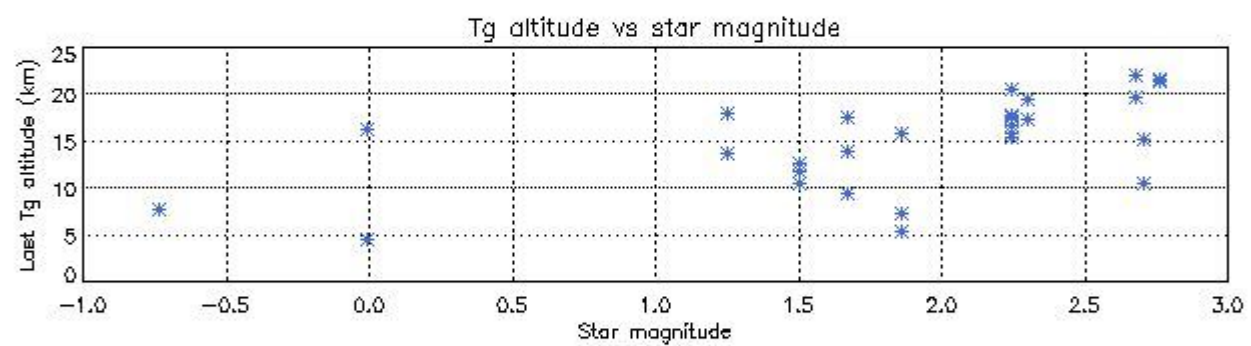
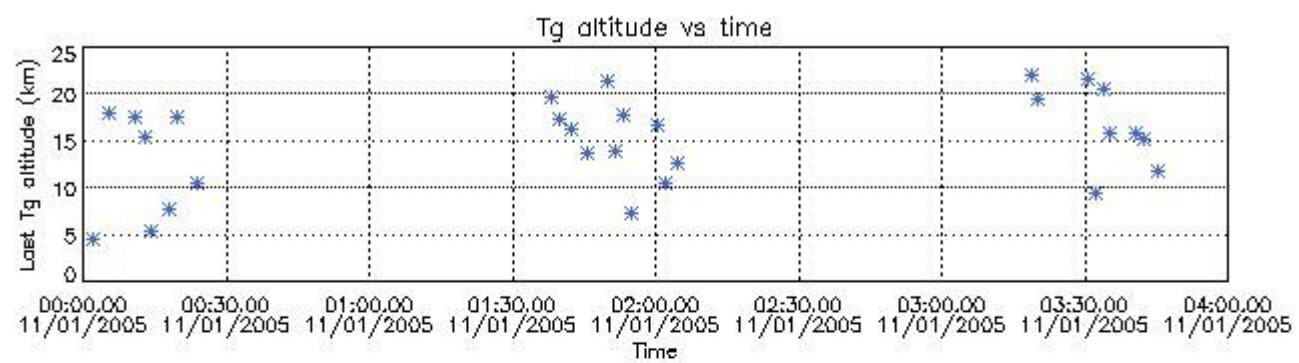
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.810	16.122	13.499
St. deviation:	4.9227	6.2776	5.6947
Maximum:	22.007	23.629	22.861
Minimum:	4.4753	4.6469	6.6887
Number of data:	28.000	12.000	8.0000

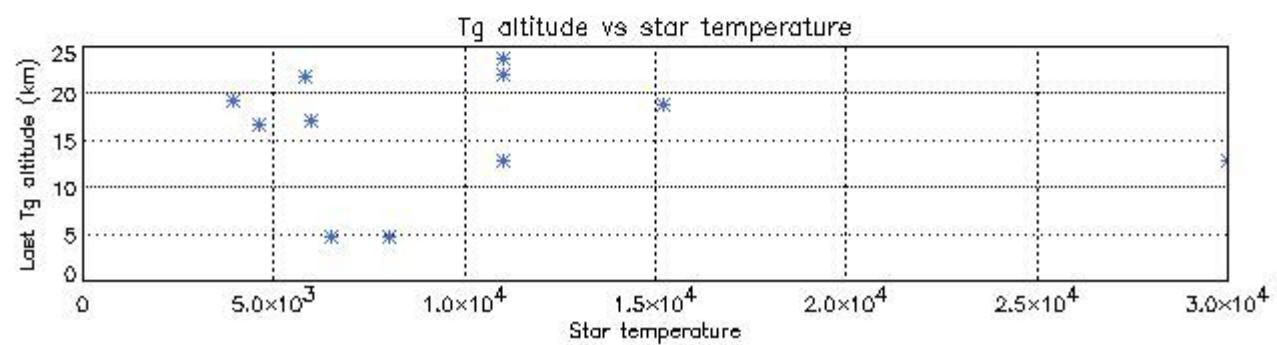
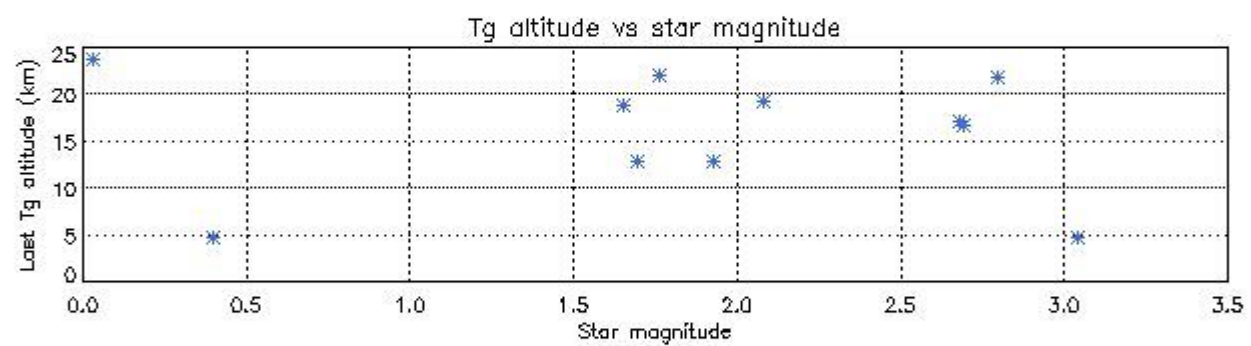
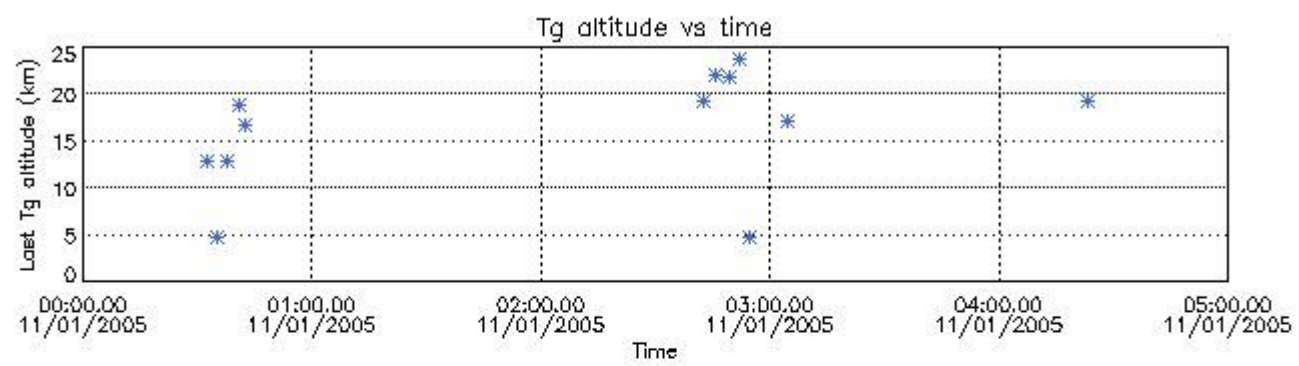
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



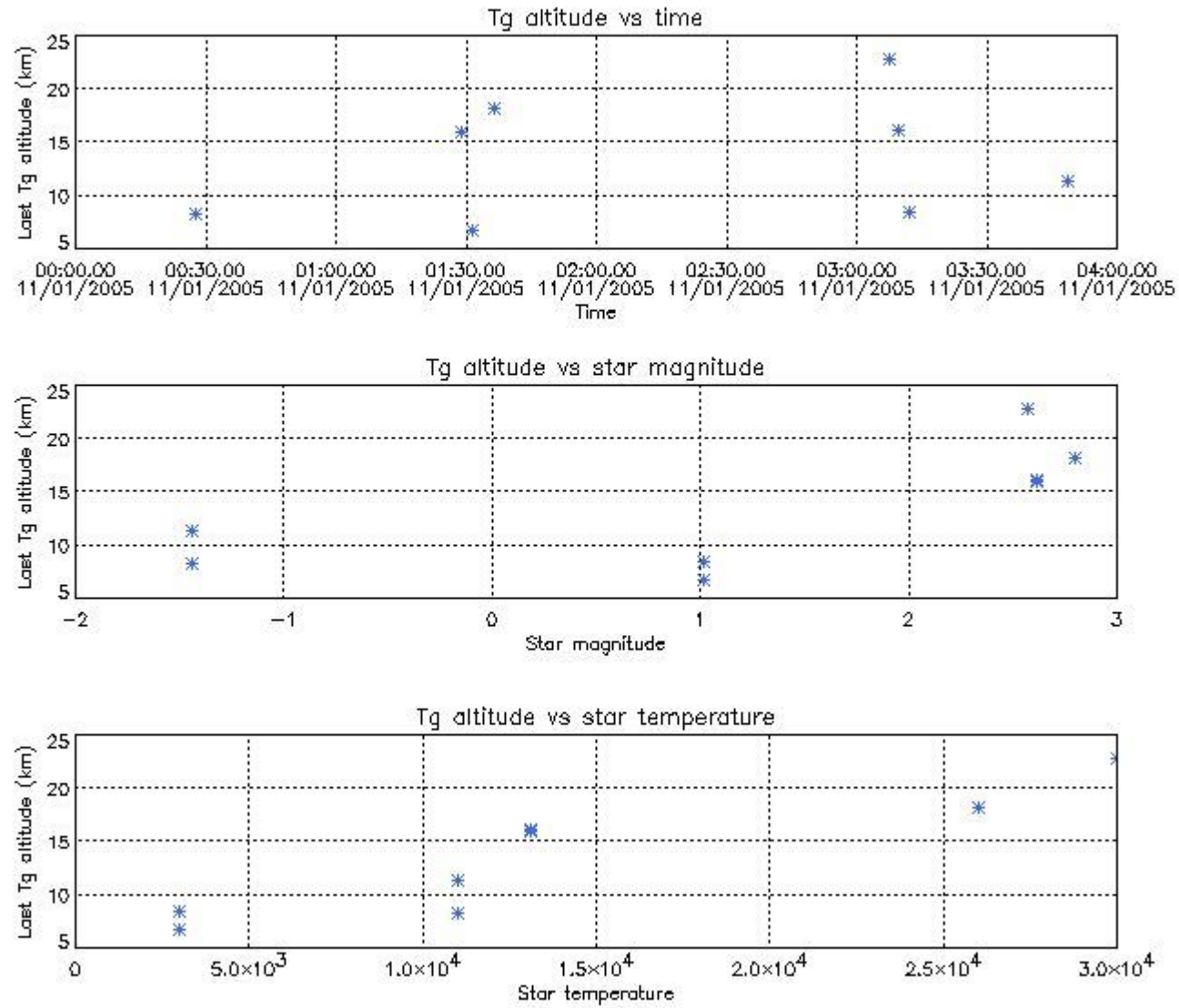
6.3 Plot for BRIGHT limb products

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

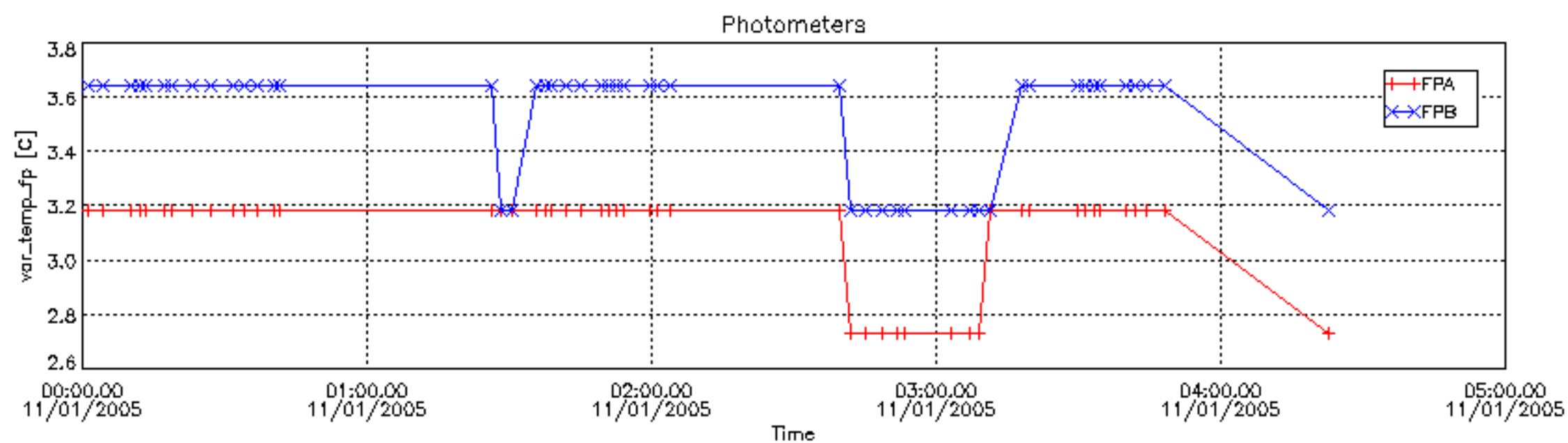
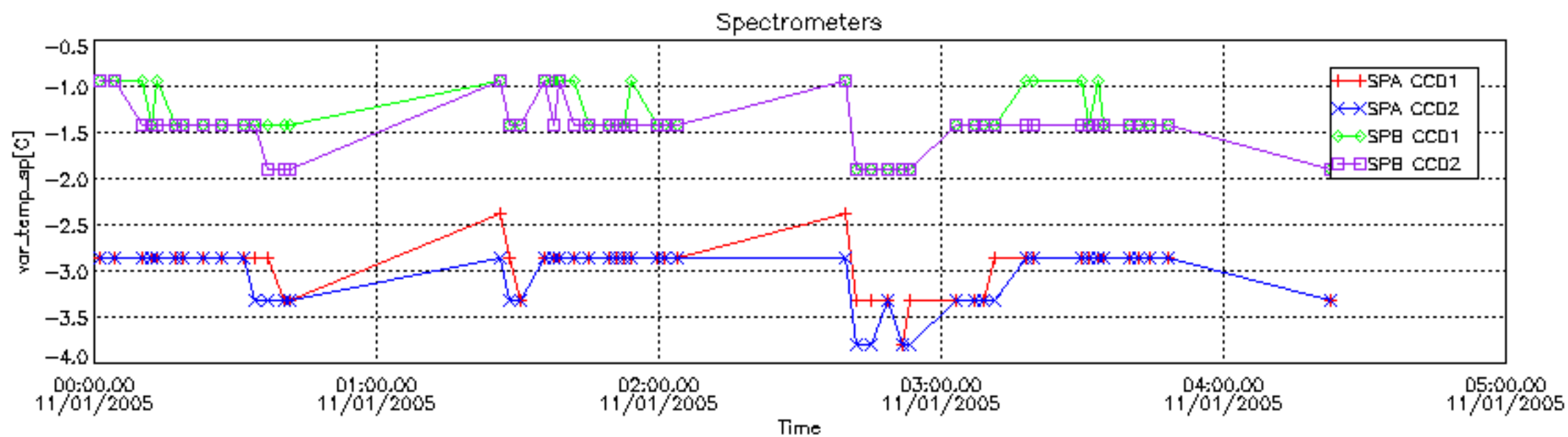
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

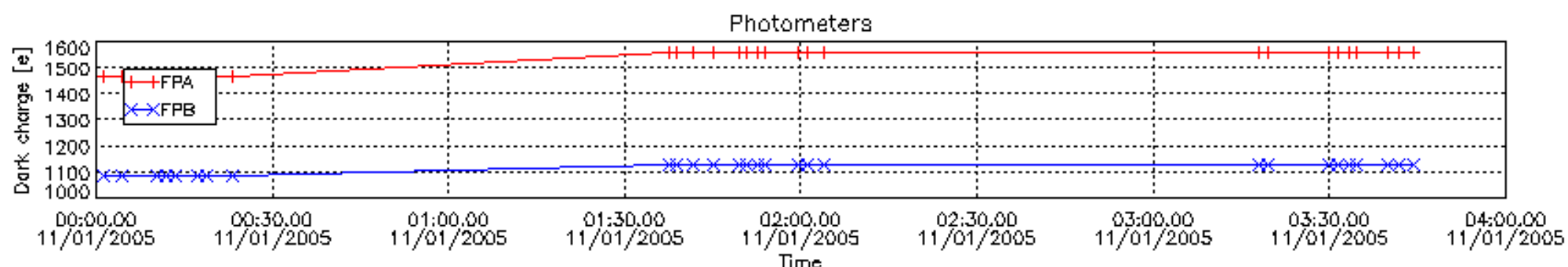
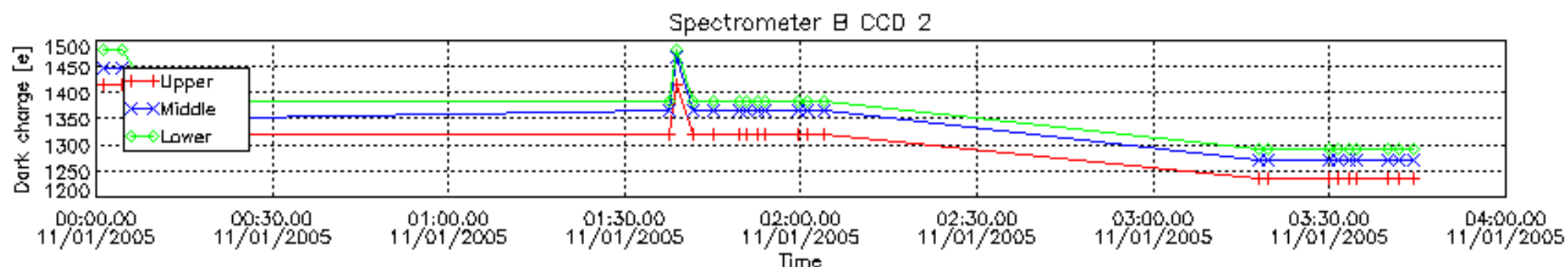
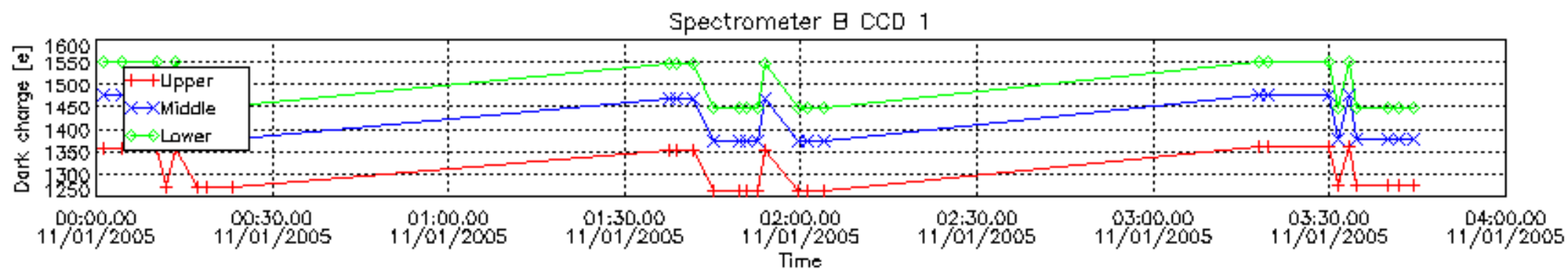
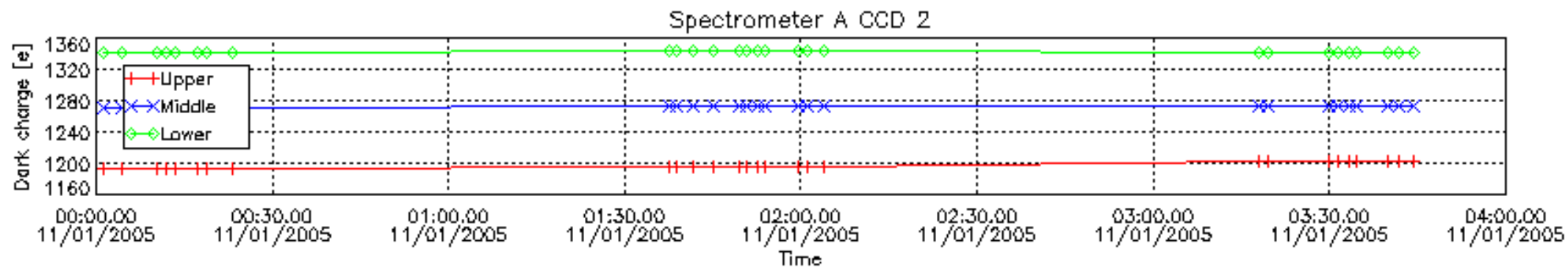
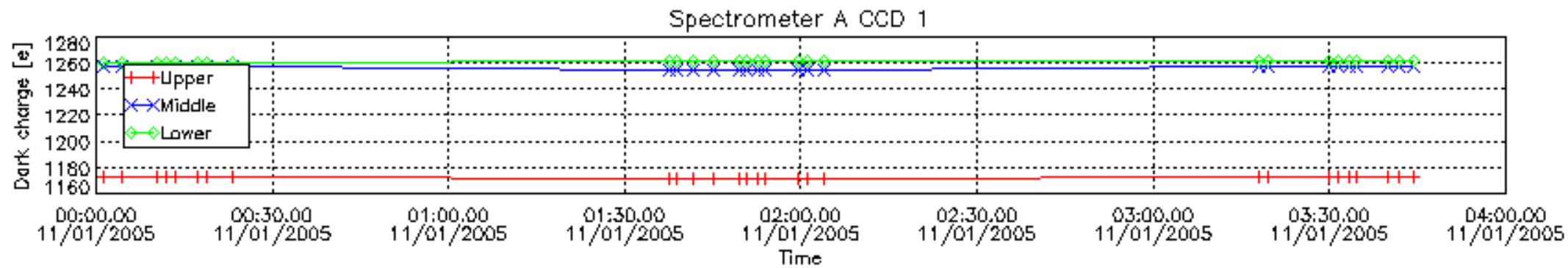
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.7	1446.3	1461.2	1448.1
St. deviation:	5.3779	6.6036	5.2889	6.8370
Maximum:	1586.0	1495.0	1508.0	1513.0
Minimum:	1450.0	1428.0	1444.0	1436.0
Number of data:	29100.	29100.	13450.	13450.

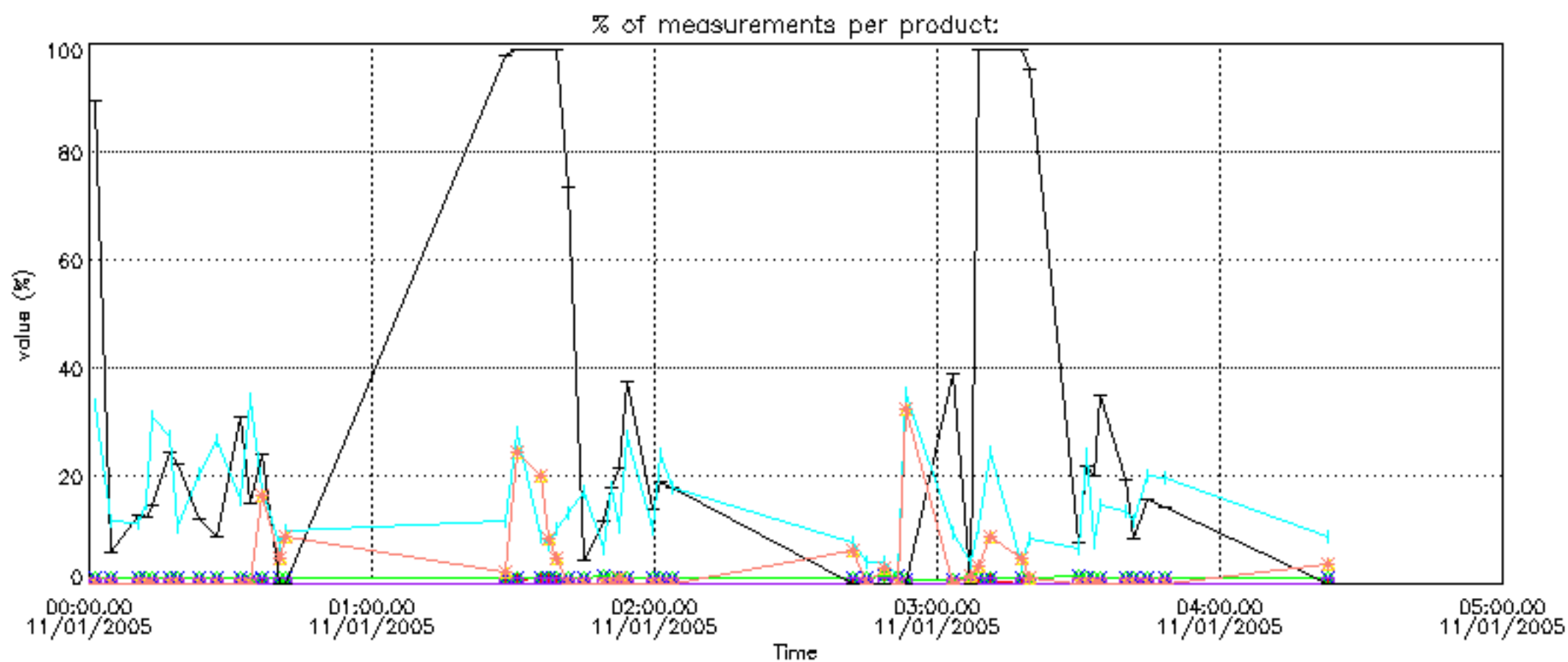
8. Auxiliary Data Files used for the production reported in section 2.2

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.

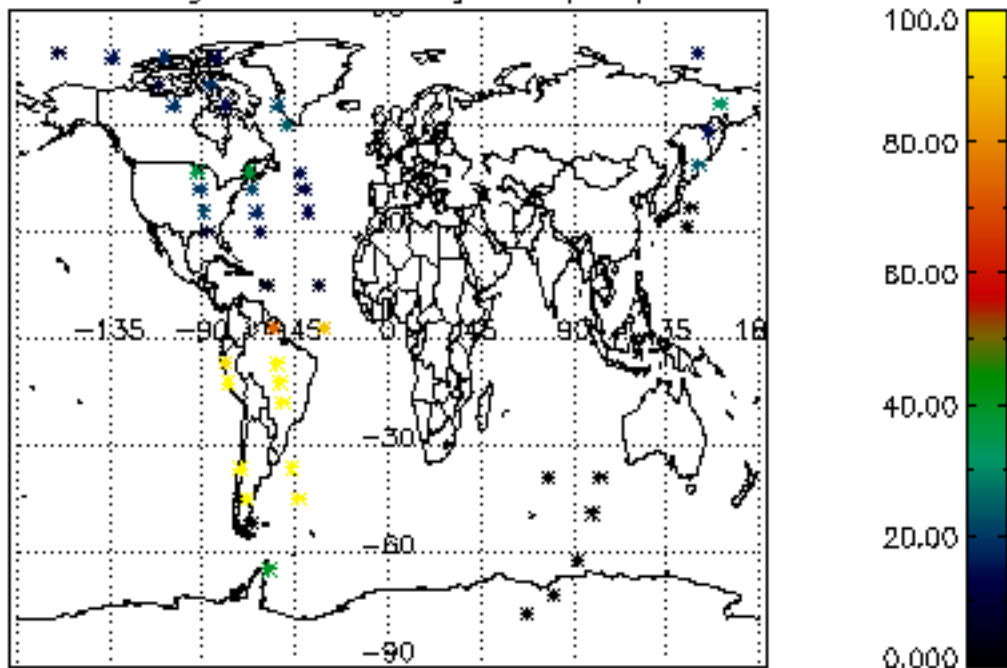
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	11-JAN-2005 00:01:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	11-JAN-2005 00:01:09
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050110_095700_20050108_000000_20100101_000000	15	11-JAN-2005 01:26:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	11-JAN-2005 00:01:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JAN-2005 00:01:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	11-JAN-2005 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20050110_061027_20050110_210000_20050111_090000	1	11-JAN-2005 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20050110_192843_20050111_030000_20050111_150000	50	11-JAN-2005 04:22:42
OPTIONAL_ECMWF_FILE	NOT USED	1	11-JAN-2005 00:01:09
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050110_234822_20050110_185831_20050120_202447	1	11-JAN-2005 00:01:09



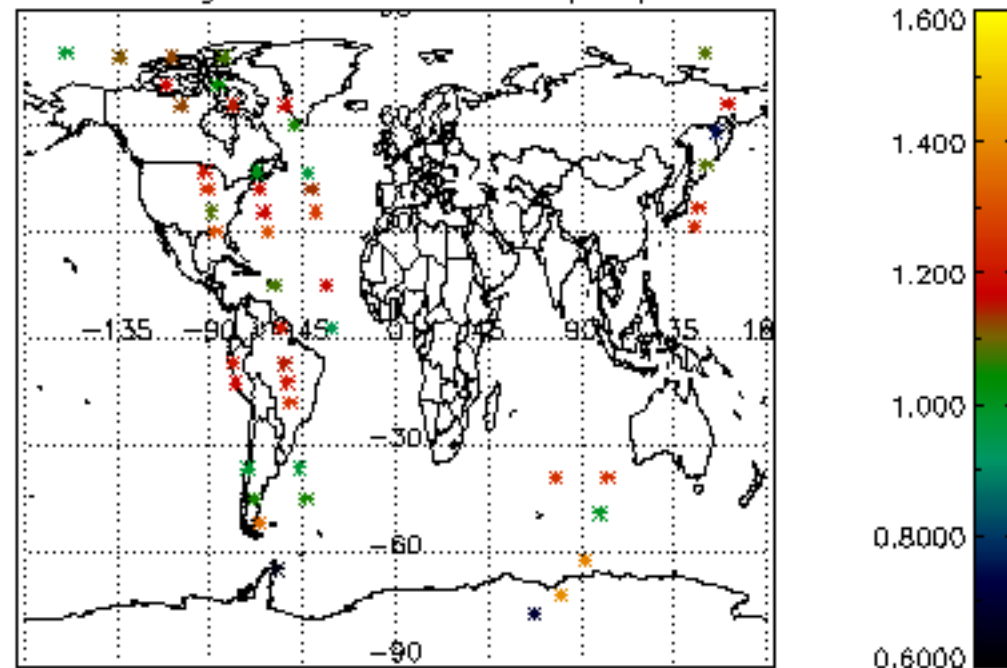




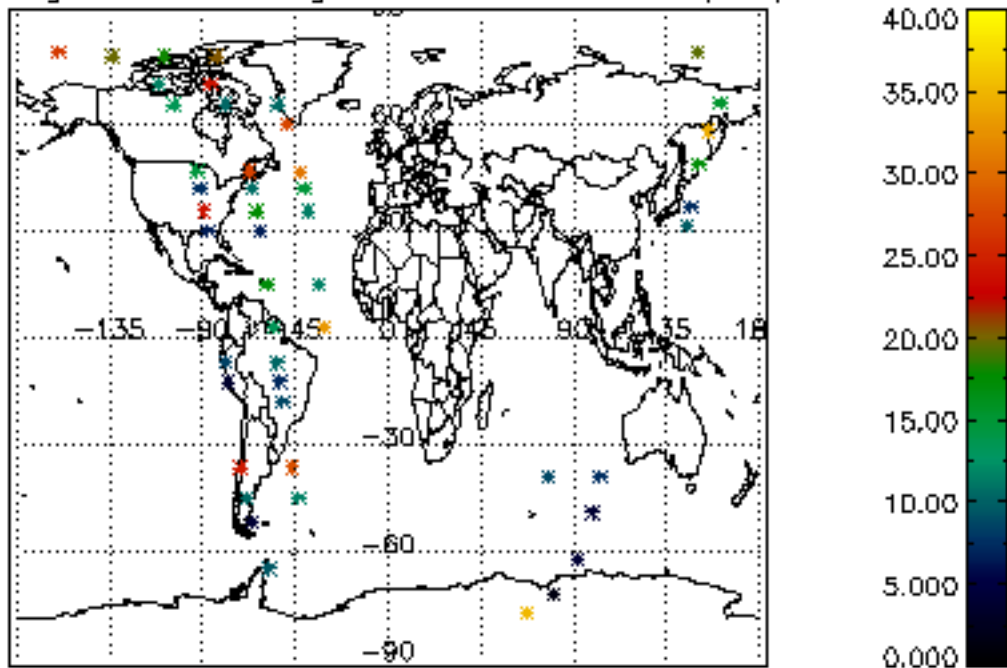
Percentage of cosmic ray hits per profile



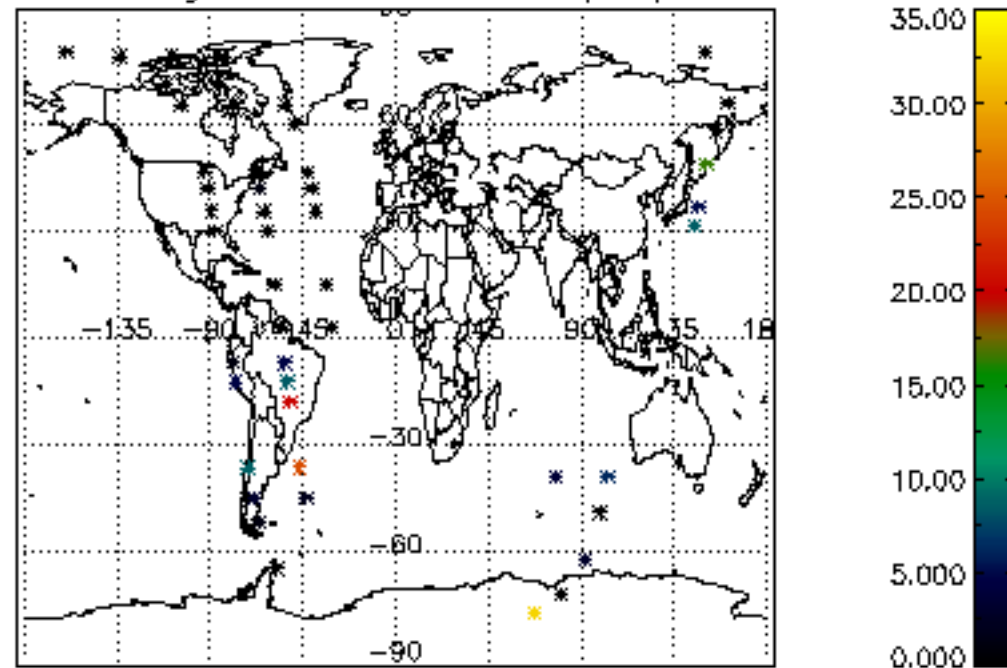
Percentage of datation errors per profile



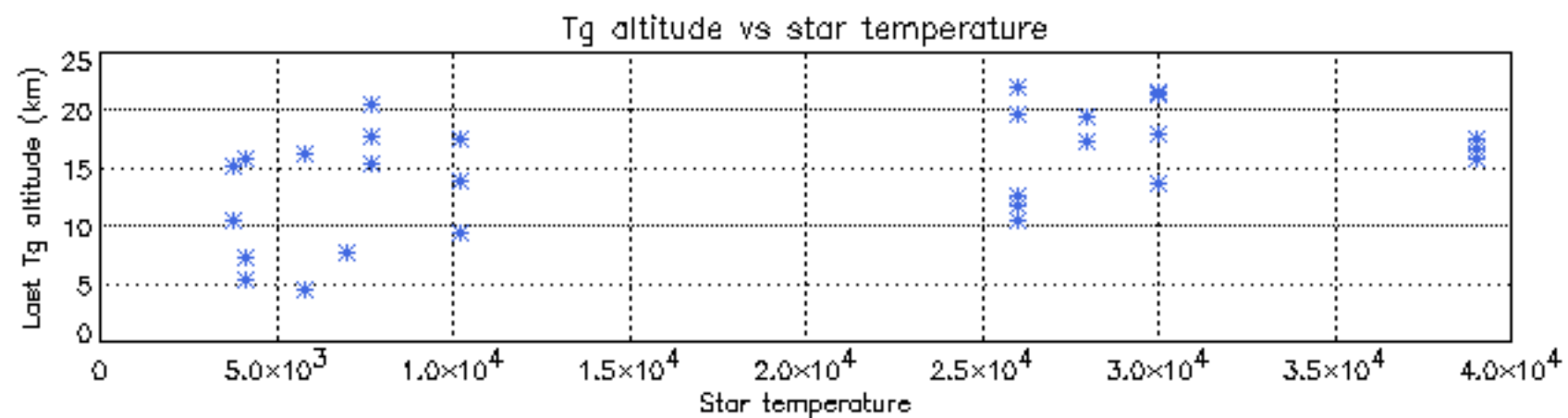
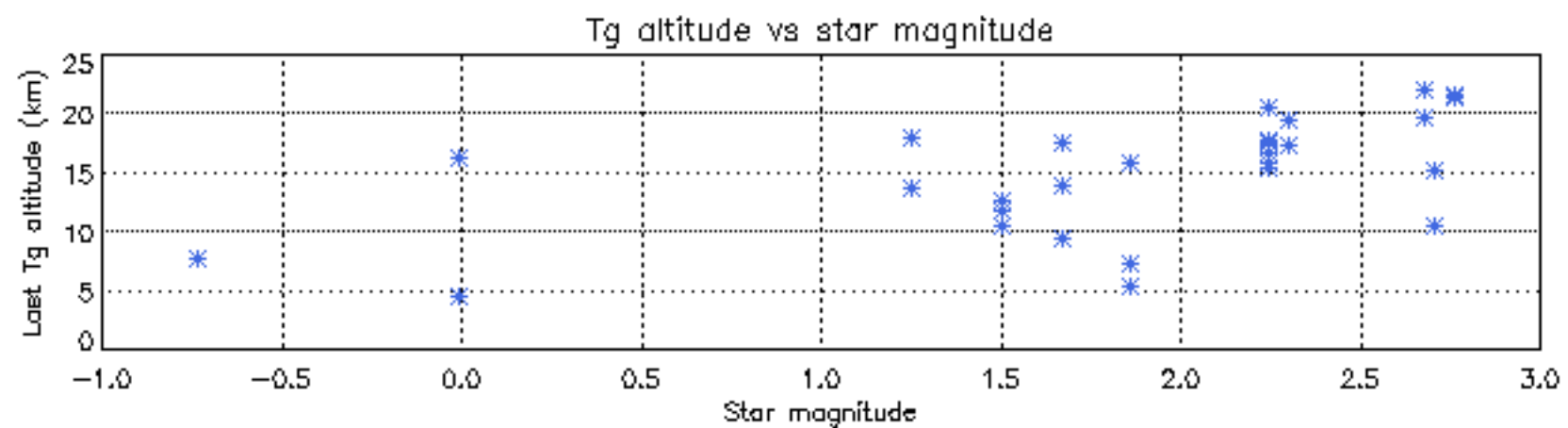
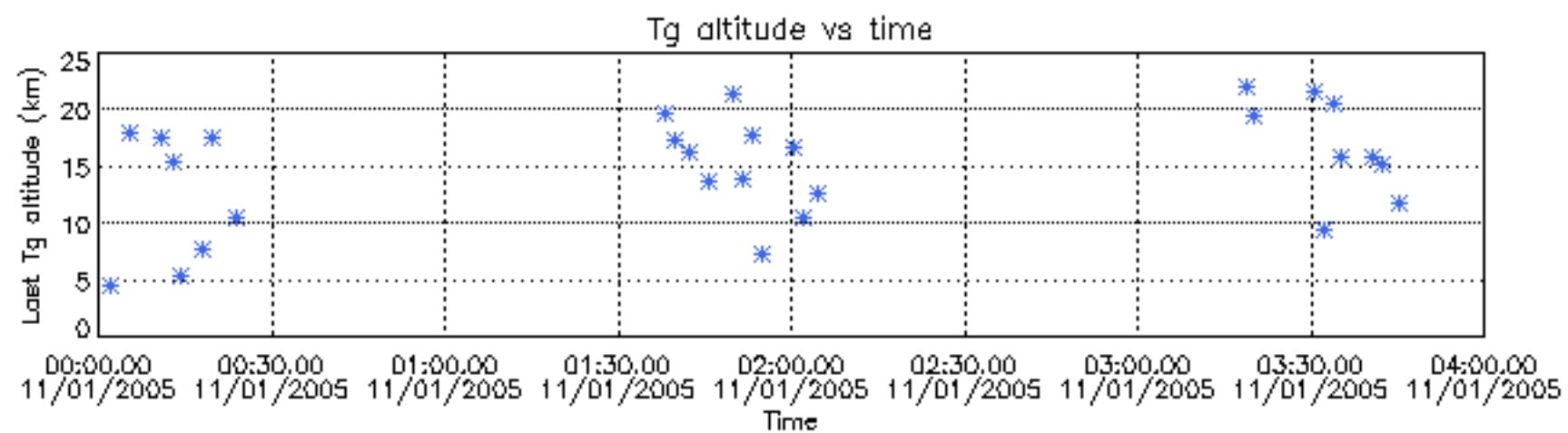
Percentage of star falling outside central band per profile



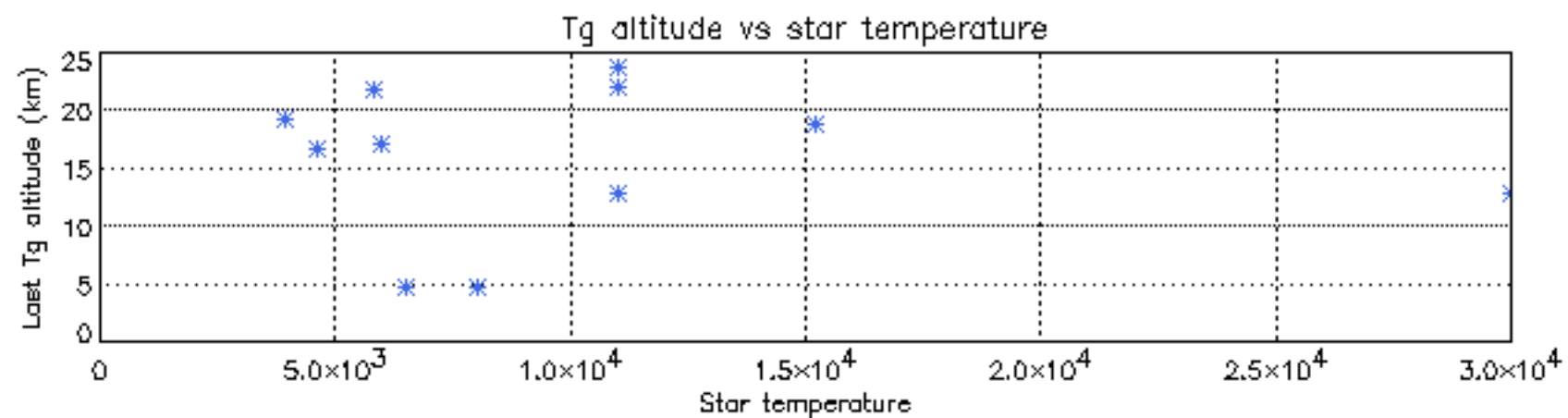
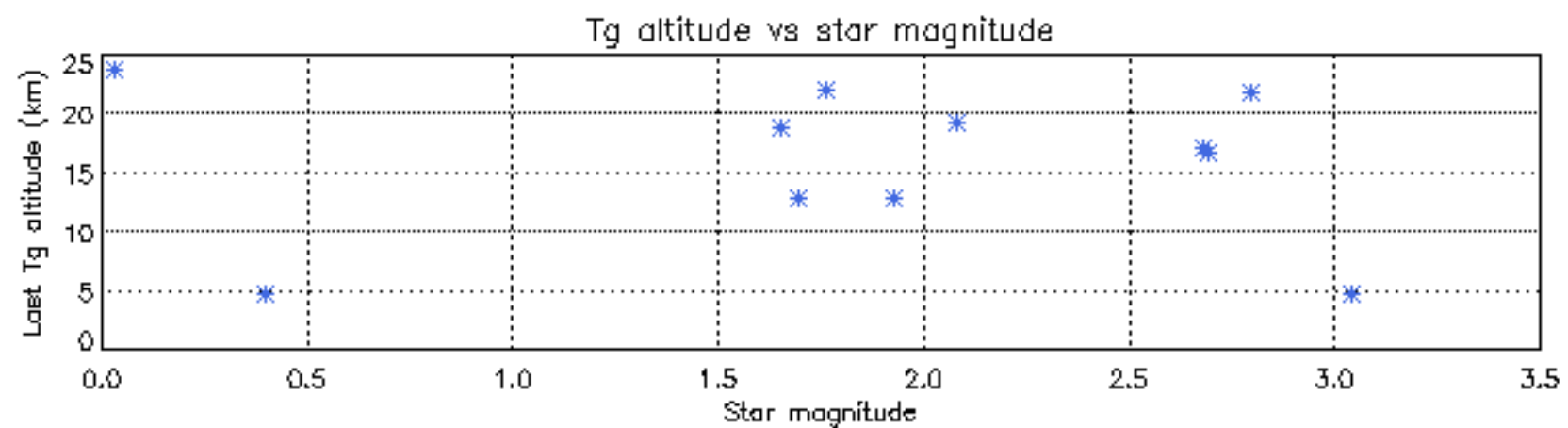
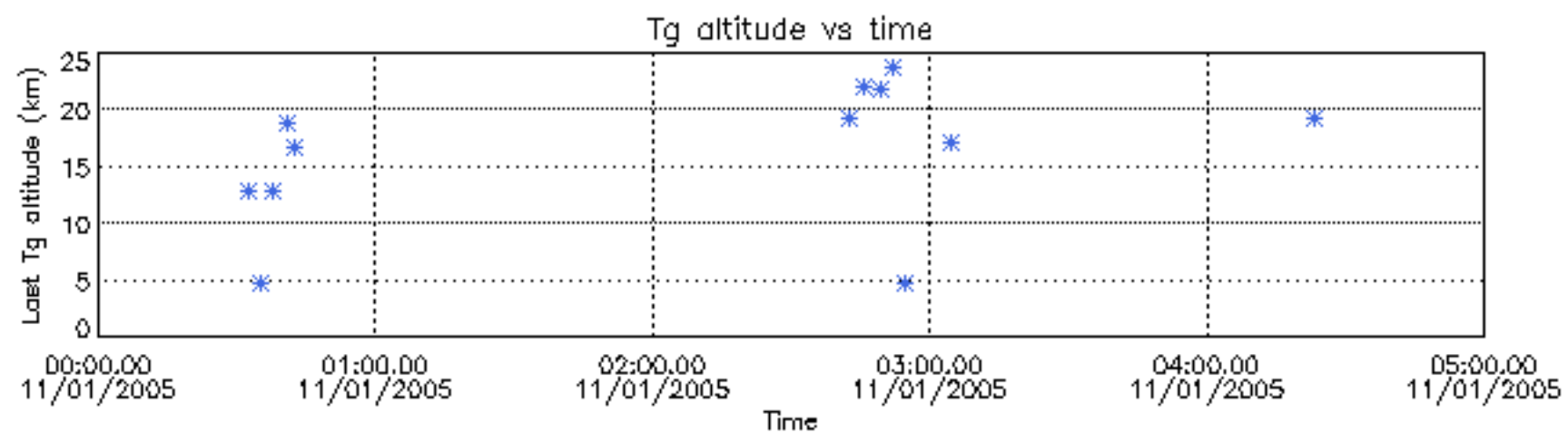
Percentage of saturation errors per profile



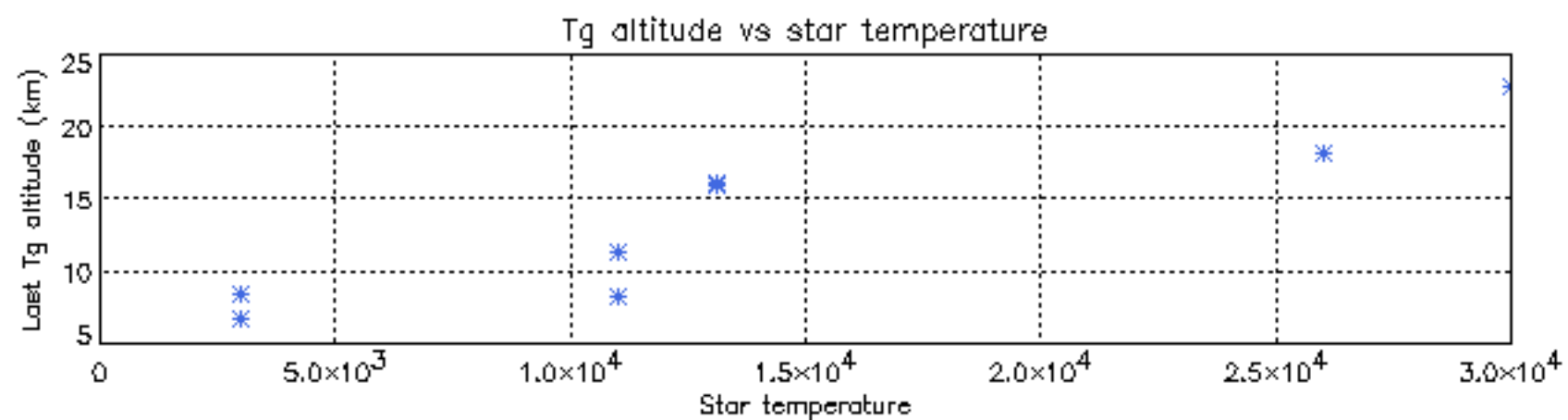
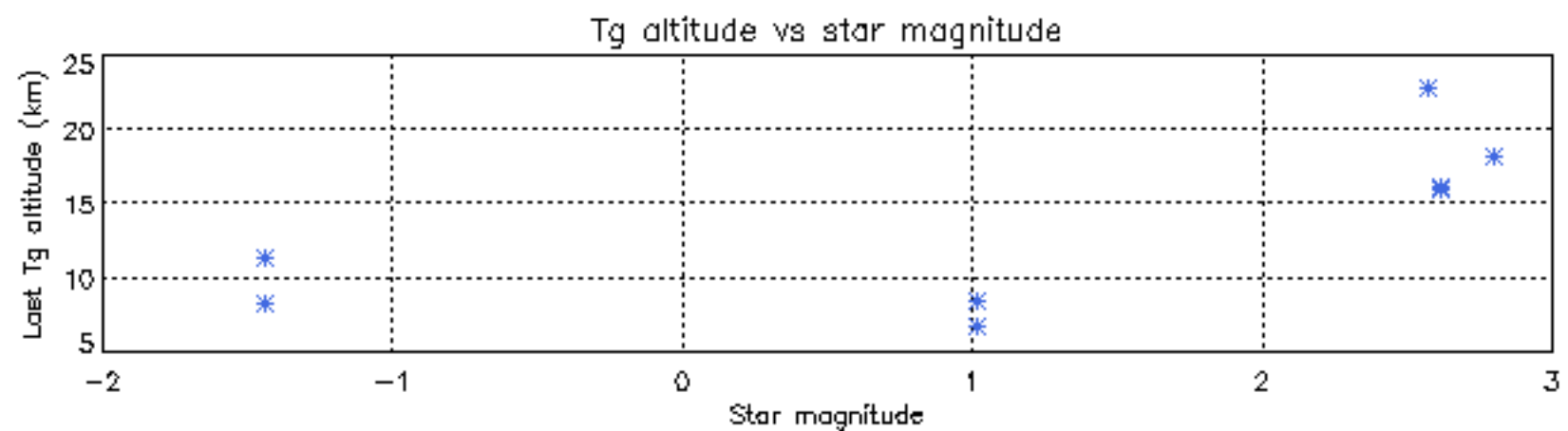
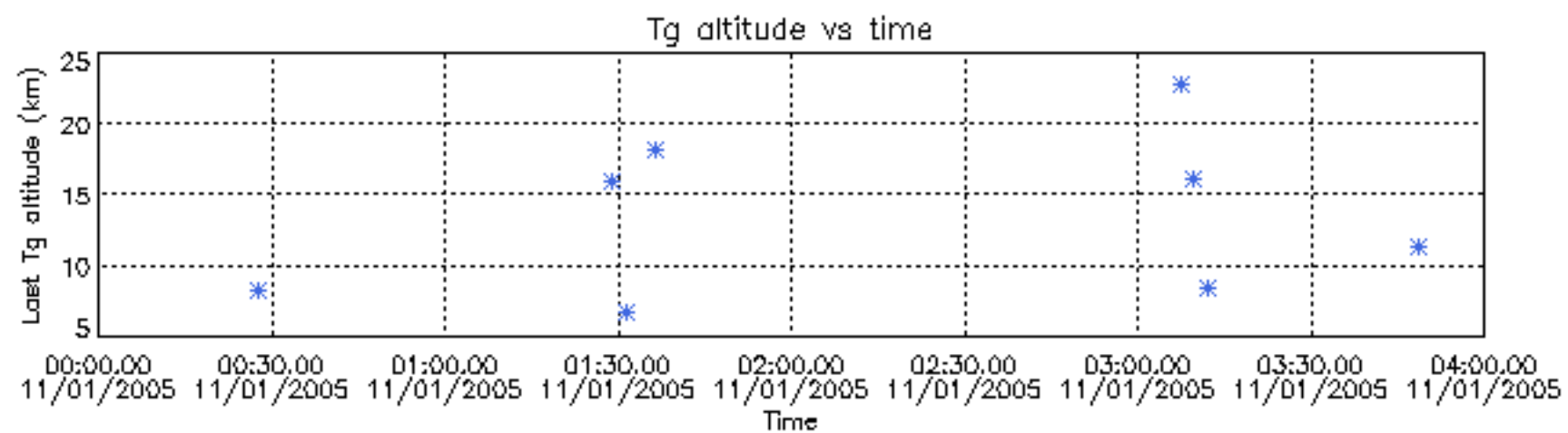
Tangent altitude at which the star is lost



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

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 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
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 11; 725.4; 01-JAN-2005 00:26:46; Dark ; 55.0; 41; Eps Car ; 1.86; 4100;occ; 110; 0;14843
 12; 846.1; 01-JAN-2005 00:28:47; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;14843
 13; 977.2; 01-JAN-2005 00:30:58; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;14843
 14; 1171.4; 01-JAN-2005 00:34:12; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14843
 15; 1339.3; 01-JAN-2005 00:37:00; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;14843
 16; 1432.6; 01-JAN-2005 00:38:33; Dark ; 46.5; 179; 240mi2CMA ; 3.03; 24000;occ; 93; 0;14843
 17; 1579.6; 01-JAN-2005 00:41:00; Dark ; 55.5; 1; 9Alp CMa ;-1.44; 11000;occ; 111; 0;14843
 18; 1768.2; 01-JAN-2005 00:44:09; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;14843
 19; 1879.6; 01-JAN-2005 00:46:00; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;14843
 20; 2091.3; 01-JAN-2005 00:49:32; Dark ; 83.0; 8; 10Alp CMI ; 0.40; 6500;occ; 166; 0;14843
 21; 2226.9; 01-JAN-2005 00:51:47; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;14843
 22; 2323.7; 01-JAN-2005 00:53:24; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;14843
 23; 2470.5; 01-JAN-2005 00:55:51; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;14843
 24; 2562.0; 01-JAN-2005 00:57:23; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14843
 25; 2690.9; 01-JAN-2005 00:59:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;14843
 26; 2799.5; 01-JAN-2005 01:01:20; Bright; 38.0; 35; 33Alp Per ; 1.79; 6250;occ; 76; 0;14843
 27; 2877.2; 01-JAN-2005 01:02:38; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;14843
 28; 3420.6; 01-JAN-2005 01:11:41; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;14843
 29; 3592.4; 01-JAN-2005 01:14:33; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;14843
 30; 3835.1; 01-JAN-2005 01:18:36; Bright; 56.5; 87; 64Gam UMA ; 2.43; 11000;occ; 113; 0;14843
 31; 3967.7; 01-JAN-2005 01:20:48; Bright; 46.5; 55; 79Zet UMA ; 2.06; 10200;occ; 93; 0;14843
 32; 4105.1; 01-JAN-2005 01:23:06; Bright; 48.5; 39; 85Eta UMA ; 1.85; 24000;occ; 97; 0;14843
 33; 4351.9; 01-JAN-2005 01:27:12; Bright; 62.0; 180; 27Gam Boo ; 3.04; 8000;occ; 124; 0;14843
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 36; 5028.6; 01-JAN-2005 01:38:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14843
 37; 5194.0; 01-JAN-2005 01:41:15; Bright; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;14843

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 4; -192.0; 01-JAN-2005 01:52:04; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;14843
 5; -103.3; 01-JAN-2005 01:53:33; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;14843
 6; -1.3; 01-JAN-2005 01:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;14843
 7; 107.7; 01-JAN-2005 01:57:04; Dark ; 49.0; 64; Gam Cen ; 2.20; 10600;occ; 98; 0;14844
 8; 227.5; 01-JAN-2005 01:59:04; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;14844
 9; 401.2; 01-JAN-2005 02:01:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14844
 10; 547.0; 01-JAN-2005 02:04:23; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;14844
 11; 630.6; 01-JAN-2005 02:05:47; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;14844
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 13; 847.2; 01-JAN-2005 02:09:24; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;14844
 14; 977.4; 01-JAN-2005 02:11:34; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;14844
 15; 1170.1; 01-JAN-2005 02:14:47; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14844
 16; 1339.6; 01-JAN-2005 02:17:36; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;14844
 17; 1432.3; 01-JAN-2005 02:19:09; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;14844
 18; 1578.1; 01-JAN-2005 02:21:35; Dark ; 59.0; 1; 9Alp CMA ;-1.44; 11000;occ; 118; 0;14844
 19; 1767.7; 01-JAN-2005 02:24:44; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;14844
 20; 1877.4; 01-JAN-2005 02:26:34; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;14844
 21; 2090.4; 01-JAN-2005 02:30:07; Dark ; 69.5; 8; 10Alp CMI ; 0.40; 6500;occ; 139; 0;14844
 22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844
 23; 2321.7; 01-JAN-2005 02:33:58; Bright; 51.5; 151; 13Mu Gem ; 2.89; 3000;occ; 103; 0;14844
 24; 2470.5; 01-JAN-2005 02:36:27; Bright; 40.5; 114; 3Iot Aur ; 2.69; 4600;occ; 81; 0;14844
 25; 2563.4; 01-JAN-2005 02:38:00; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;14844
 26; 2690.9; 01-JAN-2005 02:40:07; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;14844
 27; 2800.2; 01-JAN-2005 02:41:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;14844
 28; 2877.5; 01-JAN-2005 02:43:14; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;14844
 29; 3418.8; 01-JAN-2005 02:52:15; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;14844

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 2;-2201.7; 01-JAN-2005 02:59:11; Bright; 56.0; 87; 64Gam UMA ; 2.43; 11000;occ; 112; 0;14844
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 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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 6;-1462.8; 01-JAN-2005 03:11:30; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;14844
 7;-1209.1; 01-JAN-2005 03:15:43; Bright; 54.5; 111; 8Eta Boo ; 2.68; 6000;occ; 109; 0;14844
 8;-1007.7; 01-JAN-2005 03:19:05; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;14844
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 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
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 5;-1684.3; 01-JAN-2005 04:48:24; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;14845
 6;-1463.2; 01-JAN-2005 04:52:05; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;14845
 7;-1209.2; 01-JAN-2005 04:56:19; Bright; 56.5; 111; 8Eta Boo ; 2.68; 6000;occ; 113; 0;14845
 8;-1009.1; 01-JAN-2005 04:59:39; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;14845
 9; -840.6; 01-JAN-2005 05:02:28; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;14845
 10; -680.8; 01-JAN-2005 05:05:08; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;14845
 11; -470.2; 01-JAN-2005 05:08:38; Dark ; 83.5; 15; 67Alp Vir ; 0.98; 28000;occ; 167; 0;14845
 12; -280.0; 01-JAN-2005 05:11:48; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;14845
 13; -191.1; 01-JAN-2005 05:13:17; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;14845
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 16; 231.6; 01-JAN-2005 05:20:20; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;14846
 17; 401.7; 01-JAN-2005 05:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;14846
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 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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31; 2323.8; 01-JAN-2005 05:55:12; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;14846
32; 2471.3; 01-JAN-2005 05:57:40; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;14846
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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
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8; 600.9; 12-JAN-2005 01:19:19; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;15001
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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
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16; 1599.9; 12-JAN-2005 01:35:58; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;15001
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23; 2488.3; 12-JAN-2005 01:50:46; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;15001
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 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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 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
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 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
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 29; 2191.3; 12-JAN-2005 06:47:37; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;15004
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 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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13; 261.6; 12-JAN-2005 07:56:03; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;15005
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27; 2929.0; 15-JAN-2005 23:51:40; Bright; 107.5; 166; 17Eps Leo ; 2.98; 6000;occ; 215; 0;15057
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10; 1265.4; 24-JAN-2005 13:37:36; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;15180
11; 1391.2; 24-JAN-2005 13:39:42; Dark ; 42.5; 88; 31Eta CMA ; 2.45; 20000;occ; 85; 0;15180
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1;-4636.2; 24-JAN-2005 13:39:51; Dark ; 43.0; 88; 31Eta CMA ; 2.45; 20000;occ; 86; 17;15180
2;-4538.9; 24-JAN-2005 13:41:28; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;15180

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3;-4408.8; 24-JAN-2005 13:43:38; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;15180
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2; 263.5; 25-JAN-2005 22:52:53; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;15200
3; 424.6; 25-JAN-2005 22:55:34; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;15200
4; 523.7; 25-JAN-2005 22:57:13; Dark ; 47.5; 99; Del Cen ; 2.58; 26000;occ; 95; 0;15200
5; 660.8; 25-JAN-2005 22:59:30; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;15200
6; 794.3; 25-JAN-2005 23:01:44; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;15200
7; 902.0; 25-JAN-2005 23:03:32; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;15200
8; 1044.4; 25-JAN-2005 23:05:54; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;15200
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11; 1418.9; 25-JAN-2005 23:12:09; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;15200
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16; 2189.3; 25-JAN-2005 23:24:59; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;15200
17; 2296.5; 25-JAN-2005 23:26:46; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;15200
18; 2409.9; 25-JAN-2005 23:28:40; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;15200
19; 2551.2; 25-JAN-2005 23:31:01; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;15200
20; 2678.6; 25-JAN-2005 23:33:08; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;15200

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