

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

Data source version	GOMOS/4.02
Start time of products	QDS_TODAY(/START)-3D (05JAN2005 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-3D (06JAN2005 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)

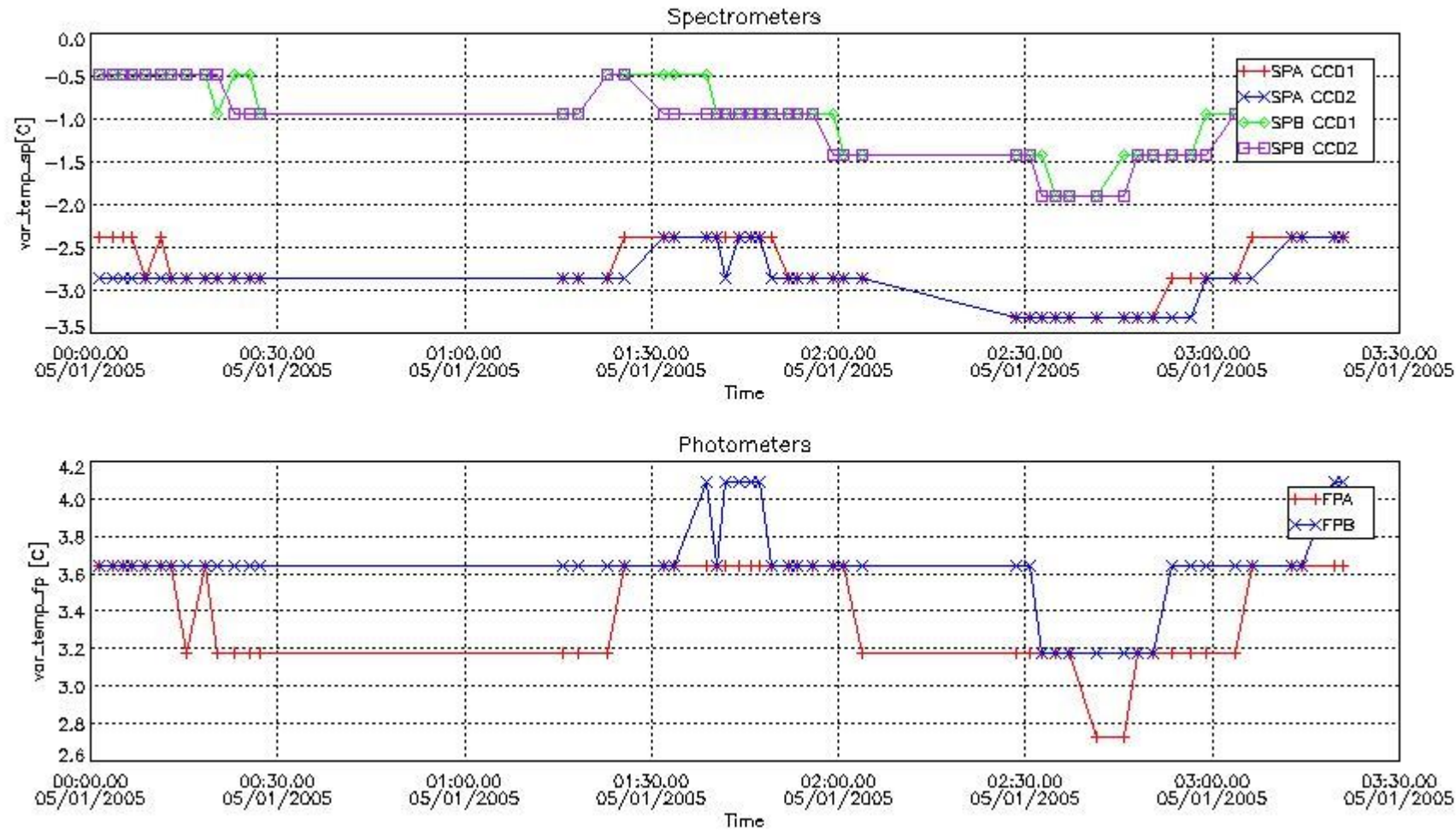
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20050105_000117_000000542033_00317_14900_0009.N1	05-JAN-2005 00:01:17	Dark	53.500	41	Eps Car	1.8600	4100.0	107	14900	No
2	GOM_TRA_1PNPDE20050105_000331_000000662033_00317_14900_0010.N1	05-JAN-2005 00:03:31	Dark	65.500	65	Lam Vel	2.2040	4400.0	131	14900	No
3	GOM_TRA_1PNPDE20050105_000520_000000462033_00317_14900_0011.N1	05-JAN-2005 00:05:20	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	14900	No
4	GOM_TRA_1PNPDE20050105_000643_000000462033_00317_14900_0012.N1	05-JAN-2005 00:06:43	Dark	45.500	70	Zet Pup	2.2460	39000.	91	14900	No
5	GOM_TRA_1PNPDE20050105_000839_000000502033_00317_14900_0013.N1	05-JAN-2005 00:08:39	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	14900	No
6	GOM_TRA_1PNPDE20050105_001120_000000512033_00317_14900_0014.N1	05-JAN-2005 00:11:20	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	14900	No
7	GOM_TRA_1PNPDE20050105_001252_000000462033_00317_14900_0015.N1	05-JAN-2005 00:12:52	Twilight	45.500	179	24Omi2CMa	3.0320	24000.	91	14900	No
8	GOM_TRA_1PNPDE20050105_001514_000000462033_00317_14900_0016.N1	05-JAN-2005 00:15:14	Twilight	45.500	1	9Alp CMa	-1.4400	11000.	91	14900	No
9	GOM_TRA_1PNPDE20050105_001824_000000512033_00317_14900_0017.N1	05-JAN-2005 00:18:24	Bright	50.500	7	19Bet Ori	0.10000	14000.	101	14900	No
10	GOM_TRA_1PNPDE20050105_002012_000000452033_00317_14900_0018.N1	05-JAN-2005 00:20:12	Bright	44.500	30	46Eps Ori	1.6940	30000.	89	14900	No
11	GOM_TRA_1PNPDE20050105_002307_000000702033_00317_14900_0019.N1	05-JAN-2005 00:23:07	Bright	70.000	8	10Alp CMi	0.40000	6500.0	140	14900	No
12	GOM_TRA_1PNPDE20050105_002537_000000502033_00317_14900_0020.N1	05-JAN-2005 00:25:37	Bright	50.000	44	24Gam Gem	1.9280	11000.	100	14900	No
13	GOM_TRA_1PNPDE20050105_002716_000000482033_00317_14900_0021.N1	05-JAN-2005 00:27:16	Bright	47.500	151	13Mu Gem	2.8900	3000.0	95	14900	No
14	GOM_TRA_1PNPDE20050105_011550_000000432033_00317_14900_0000.N1	05-JAN-2005 01:15:50	Twilight	43.000	104	27Bet Lib	2.6140	13100.	86	14900	No
15	GOM_TRA_1PNPDE20050105_011817_000000462033_00317_14900_0001.N1	05-JAN-2005 01:18:17	Twilight	45.500	80	7Del Sco	2.3160	30000.	91	14900	No
16	GOM_TRA_1PNPDE20050105_012300_000000772033_00317_14900_0002.N1	05-JAN-2005 01:23:00	Dark	76.500	15	67Alp Vir	0.97600	28000.	153	14900	No
17	GOM_TRA_1PNPDE20050105_012539_000000502033_00317_14900_0003.N1	05-JAN-2005 01:25:39	Dark	49.500	54	5The Cen	2.0550	4500.0	99	14900	No
18	GOM_TRA_1PNPDE20050105_013200_000000452033_00318_14901_0004.N1	05-JAN-2005 01:32:00	Dark	45.000	64	Gam Cen	2.2000	10600.	90	14901	No
19	GOM_TRA_1PNPDE20050105_013342_000000452033_00318_14901_0005.N1	05-JAN-2005 01:33:42	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	14901	No
20	GOM_TRA_1PNPDE20050105_013850_000000412033_00318_14901_0006.N1	05-JAN-2005 01:38:50	Dark	41.000	29	Bet Car	1.6720	10200.	82	14901	No
21	GOM_TRA_1PNPDE20050105_014022_000000462033_00318_14901_0007.N1	05-JAN-2005 01:40:22	Dark	45.500	71	lot Car	2.2460	7700.0	91	14901	No
22	GOM_TRA_1PNPDE20050105_014154_000000472033_00318_14901_0008.N1	05-JAN-2005 01:41:54	Dark	47.000	41	Eps Car	1.8600	4100.0	94	14901	No
23	GOM_TRA_1PNPDE20050105_014410_000000572033_00318_14901_0009.N1	05-JAN-2005 01:44:10	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	14901	No
24	GOM_TRA_1PNPDE20050105_014557_000000442033_00318_14901_0010.N1	05-JAN-2005 01:45:57	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	14901	No
25	GOM_TRA_1PNPDE20050105_014719_000000492033_00318_14901_0011.N1	05-JAN-2005 01:47:19	Dark	48.500	70	Zet Pup	2.2460	39000.	97	14901	No
26	GOM_TRA_1PNPDE20050105_014915_000000492033_00318_14901_0012.N1	05-JAN-2005 01:49:15	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	14901	No
27	GOM_TRA_1PNPDE20050105_015158_000000492033_00318_14901_0013.N1	05-JAN-2005 01:51:58	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	14901	No
28	GOM_TRA_1PNPDE20050105_015326_000000472033_00318_14901_0014.N1	05-JAN-2005 01:53:26	Twilight	46.500	179	24Omi2CMa	3.0320	24000.	93	14901	No
29	GOM_TRA_1PNPDE20050105_015550_000000462033_00318_14901_0015.N1	05-JAN-2005 01:55:50	Twilight	46.000	1	9Alp CMa	-1.4400	11000.	92	14901	No
30	GOM_TRA_1PNPDE20050105_015900_000000482033_00318_14901_0016.N1	05-JAN-2005 01:59:00	Bright	48.000	7	19Bet Ori	0.10000	14000.	96	14901	No
31	GOM_TRA_1PNPDE20050105_020048_000000432033_00318_14901_0017.N1	05-JAN-2005 02:00:48	Bright	43.000	30	46Eps Ori	1.6940	30000.	86	14901	No
32	GOM_TRA_1PNPDE20050105_020342_000000752033_00318_14901_0018.N1	05-JAN-2005 02:03:42	Bright	75.000	8	10Alp CMi	0.40000	6500.0	150	14901	No
33	GOM_TRA_1PNPDE20050105_022837_000000512033_00318_14901_0000.N1	05-JAN-2005 02:28:37	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	14901	No
34	GOM_TRA_1PNPDE20050105_023045_000000422033_00318_14901_0001.N1	05-JAN-2005 02:30:45	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	14901	No
35	GOM_TRA_1PNPDE20050105_023238_000000562033_00318_14901_0002.N1	05-JAN-2005 02:32:38	Bright	56.000	87	64Gam UMa	2.4330	11000.	112	14901	No
36	GOM_TRA_1PNPDE20050105_023443_000000422033_00318_14901_0003.N1	05-JAN-2005 02:34:43	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	14901	No
37	GOM_TRA_1PNPDE20050105_023700_000000372033_00318_14901_0004.N1	05-JAN-2005 02:37:00	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	14901	No
38	GOM_TRA_1PNPDE20050105_024132_000000662033_00318_14901_0005.N1	05-JAN-2005 02:41:32	Bright	66.000	152	12Alp2CVn	2.8900	11000.	132	14901	No
39	GOM_TRA_1PNPDE20050105_024550_000000652033_00318_14901_0006.N1	05-JAN-2005 02:45:50	Bright	65.000	83		2.3780	11000.	130	14901	No
40	GOM_TRA_1PNPDE20050105_024759_000000362033_00318_14901_0007.N1	05-JAN-2005 02:47:59	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	14901	No
41	GOM_TRA_1PNPDE20050105_025026_000000612033_00318_14901_0008.N1	05-JAN-2005 02:50:26	Bright	61.000	111	8Eta Boo	2.6800	6000.0	122	14901	No
42	GOM_TRA_1PNPDE20050105_025327_000000532033_00318_14901_0009.N1	05-JAN-2005 02:53:27	Twilight	53.000	120	1Del Oph	2.7340	3200.0	106	14901	No
43	GOM_TRA_1PNPDE20050105_025626_000000462033_00318_14901_0010.N1	05-JAN-2005 02:56:26	Twilight	46.000	104	27Bet Lib	2.6140	13100.	92	14901	No
44	GOM_TRA_1PNPDE20050105_025853_000000412033_00318_14901_0011.N1	05-JAN-2005 02:58:53	Twilight	40.500	80	7Del Sco	2.3160	30000.	81	14901	No
45	GOM_TRA_1PNPDE20050105_030338_000000732033_00318_14901_0012.N1	05-JAN-2005 03:03:38	Dark	73.000	15	67Alp Vir	0.97600	28000.	146	14901	No
46	GOM_TRA_1PNPDE20050105_030615_000000592033_00318_14901_0013.N1	05-JAN-2005 03:06:15	Dark	58.500	54	5The Cen	2.0550	4500.0	117	14901	No

47	GOM_TRA_1PNPDE20050105_031236_000000472033_00319_14902_0014.N1	05-JAN-2005 03:12:36	Dark	47.000	64	Gam Cen	2.2000	10600.	94	14902	No
48	GOM_TRA_1PNPDE20050105_031419_000000432033_00319_14902_0015.N1	05-JAN-2005 03:14:19	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	14902	No
49	GOM_TRA_1PNPDE20050105_031926_000000422033_00319_14902_0016.N1	05-JAN-2005 03:19:26	Dark	42.000	29	Bet Car	1.6720	10200.	84	14902	No
50	GOM_TRA_1PNPDE20050105_032059_000000452033_00319_14902_0017.N1	05-JAN-2005 03:20:59	Dark	45.000	71	lot Car	2.2460	7700.0	90	14902	No

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



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

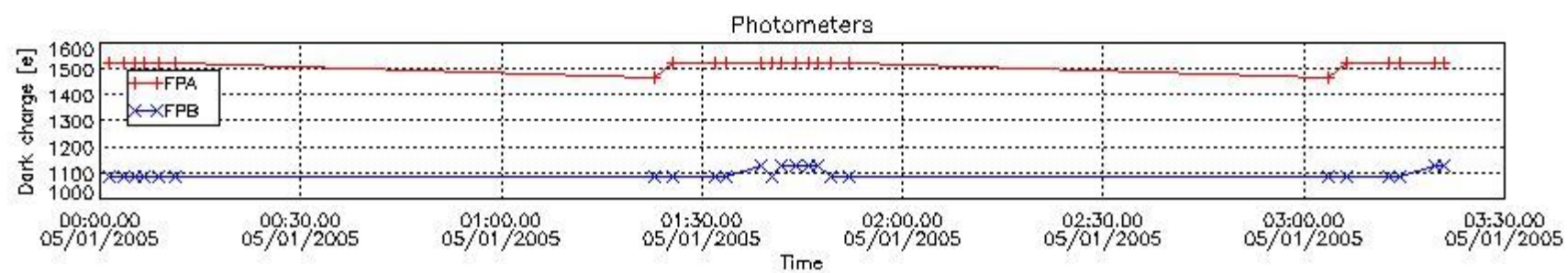
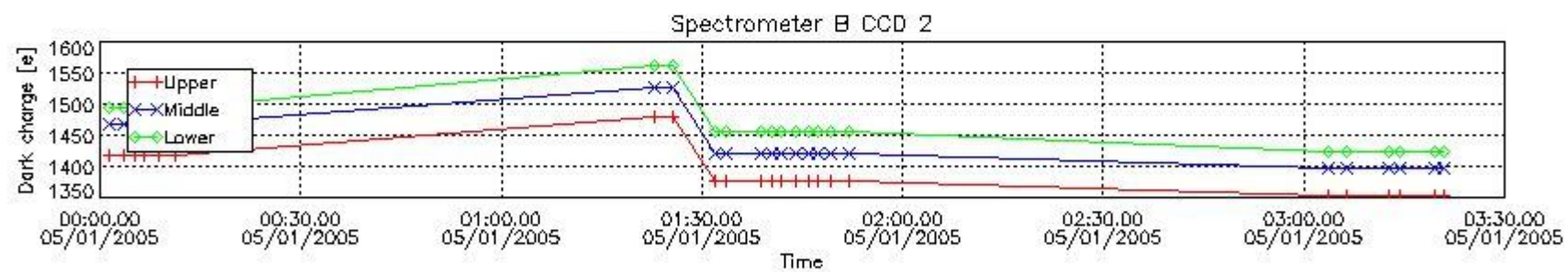
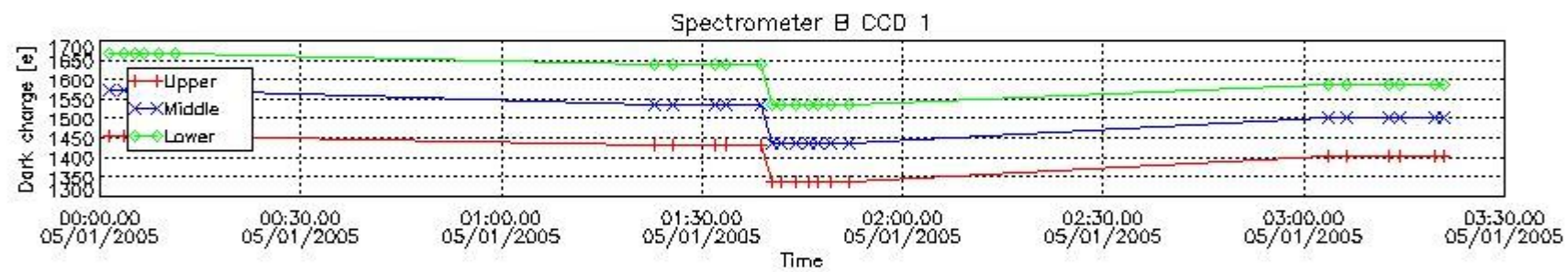
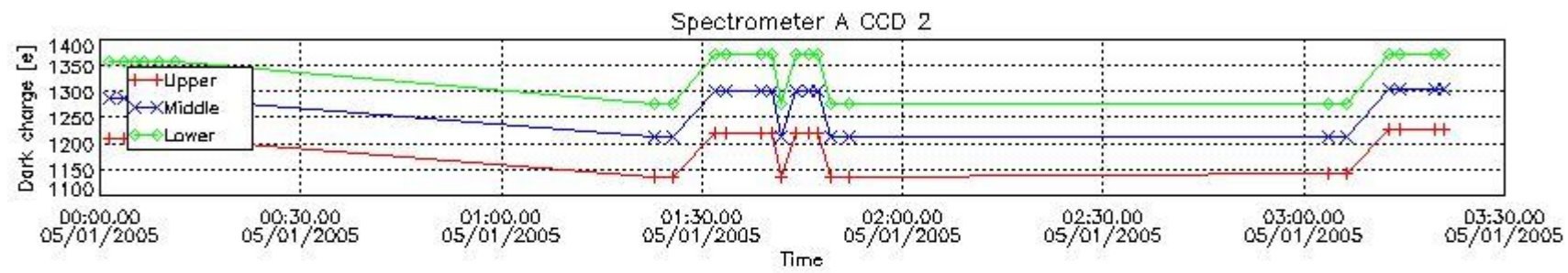
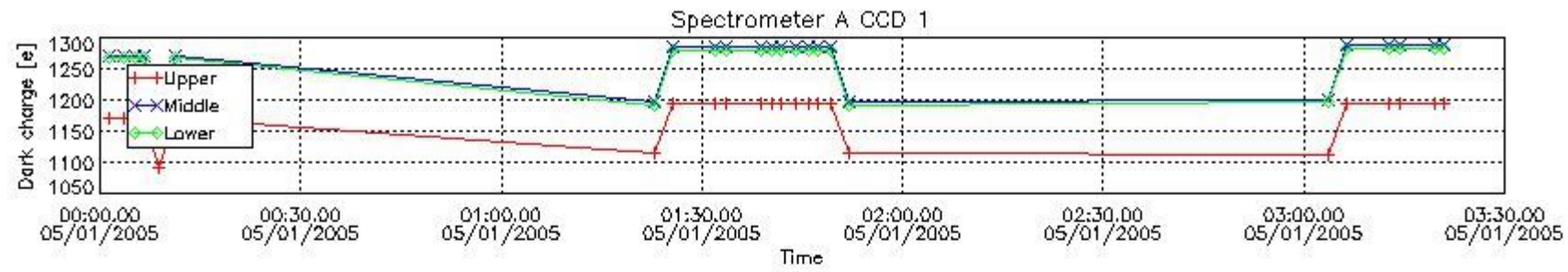
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





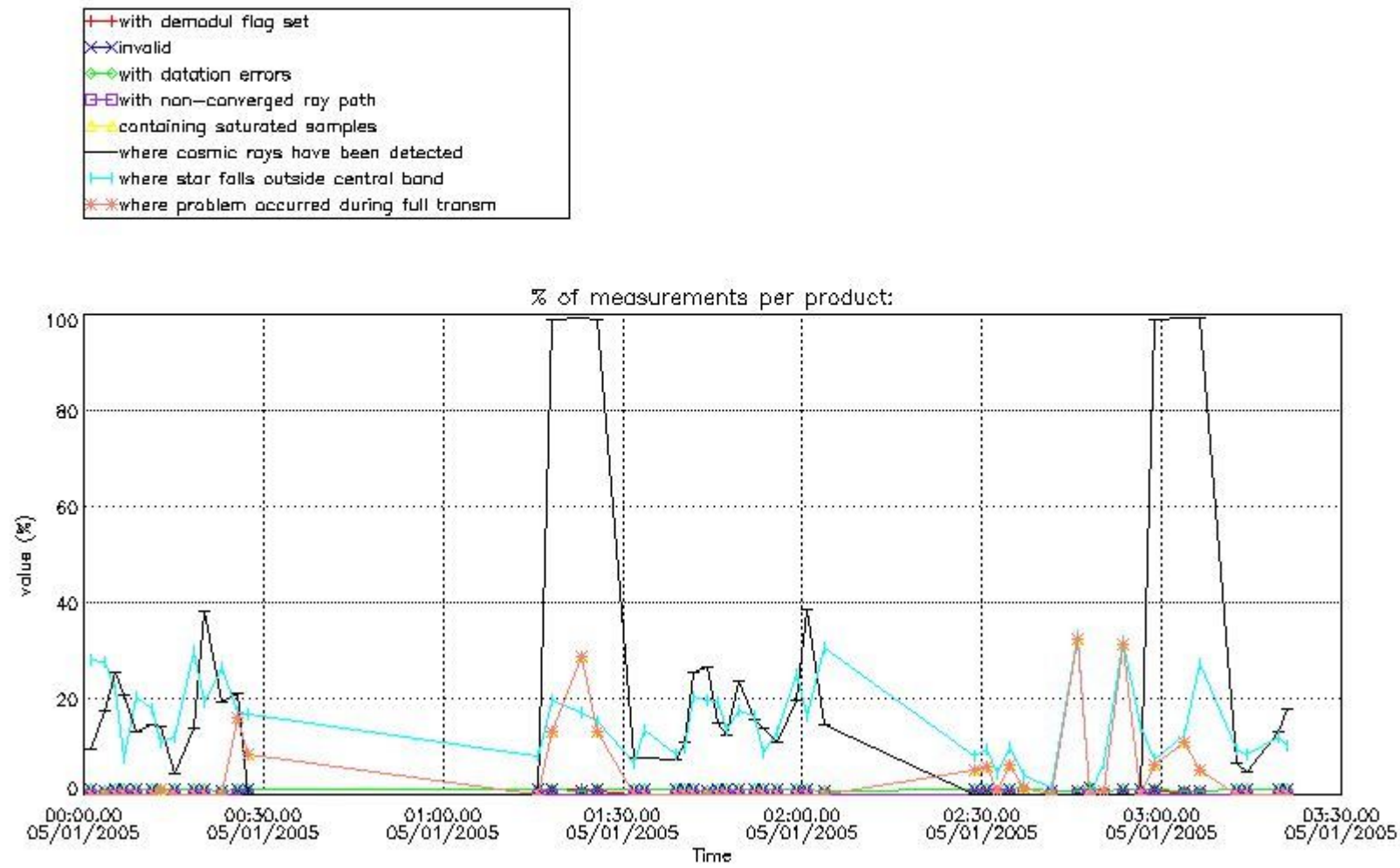
## 5. Demodulation flag and quality information monitoring

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:

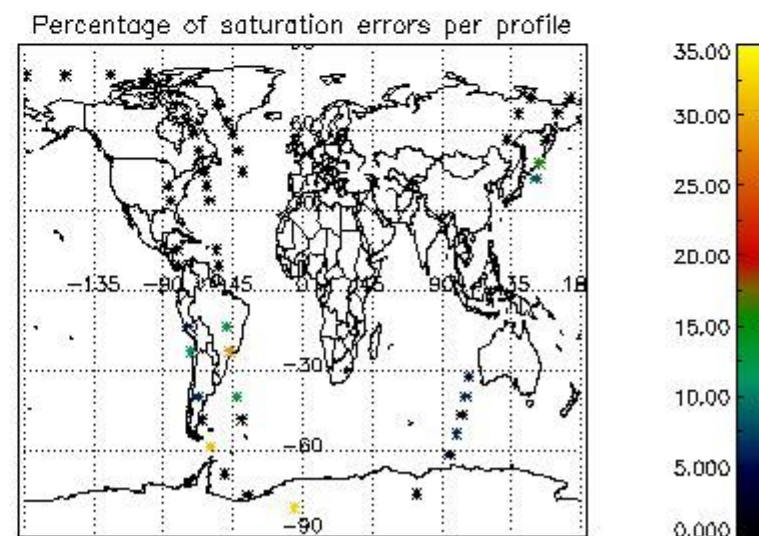
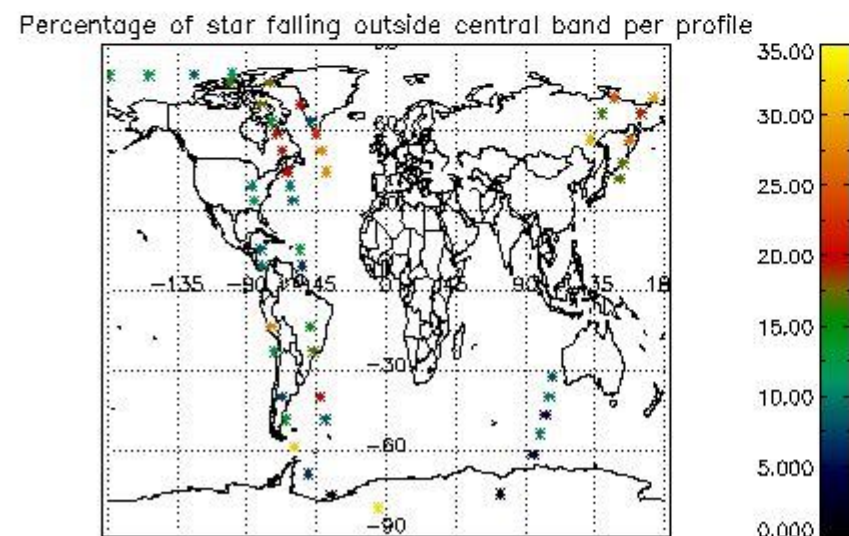
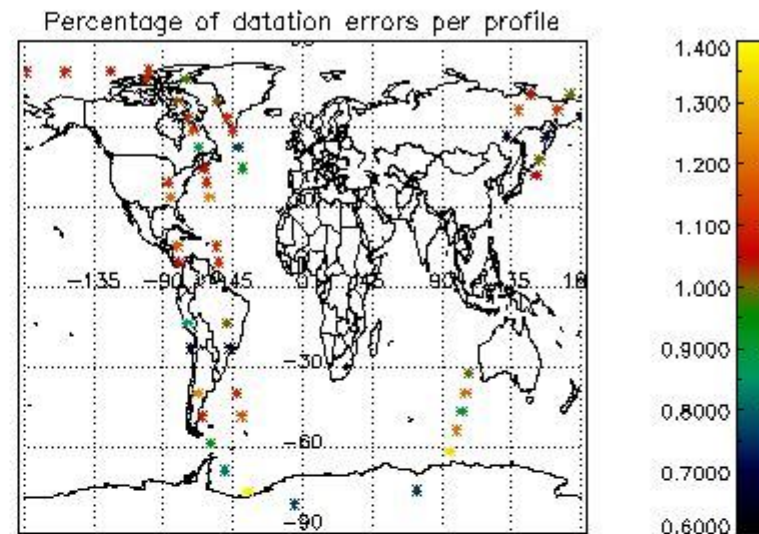
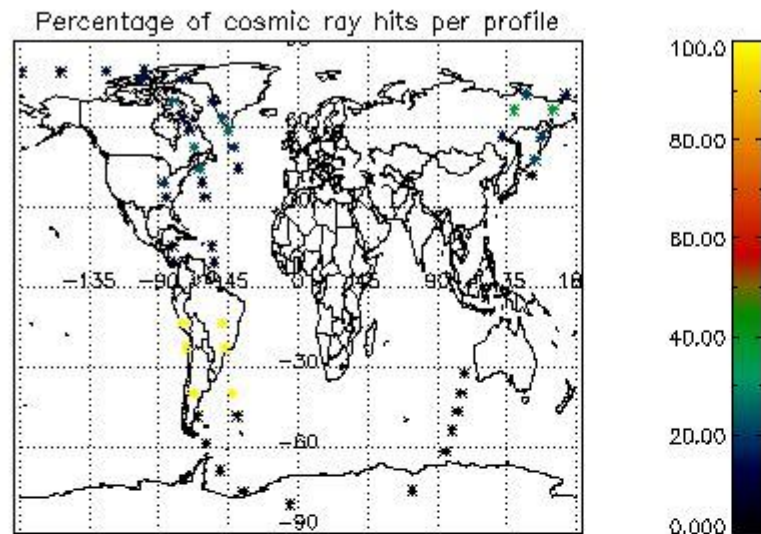
At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





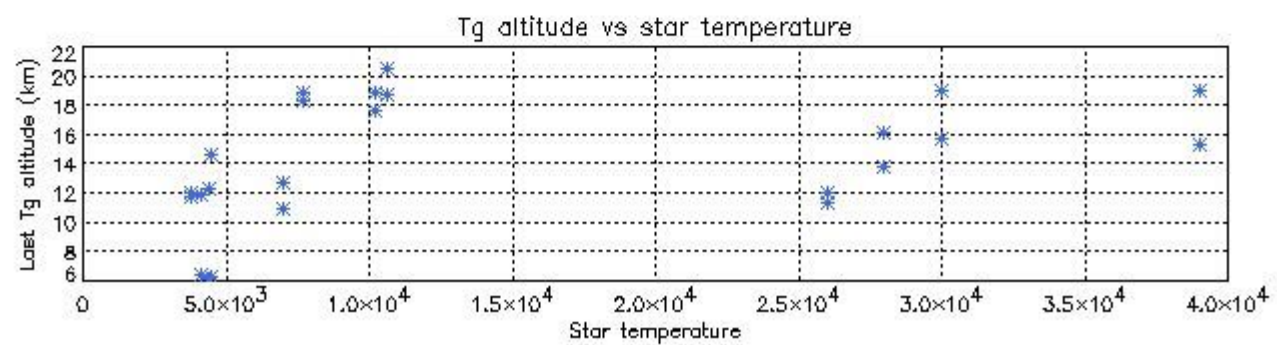
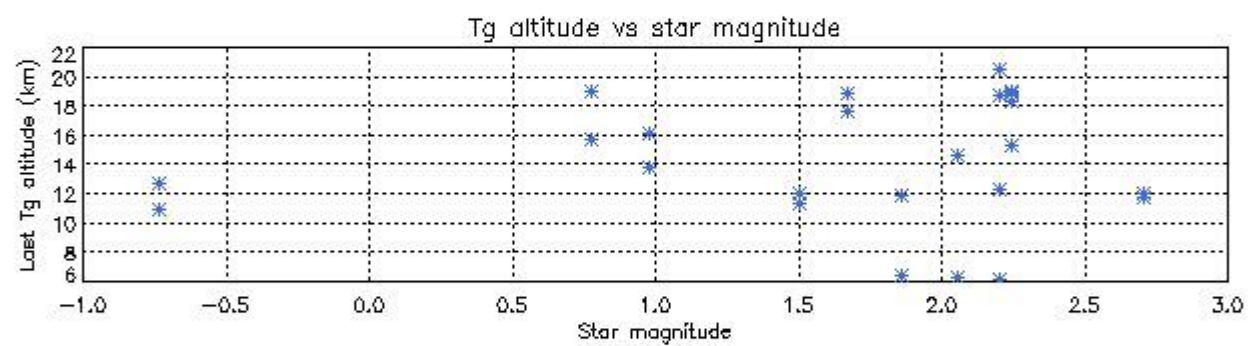
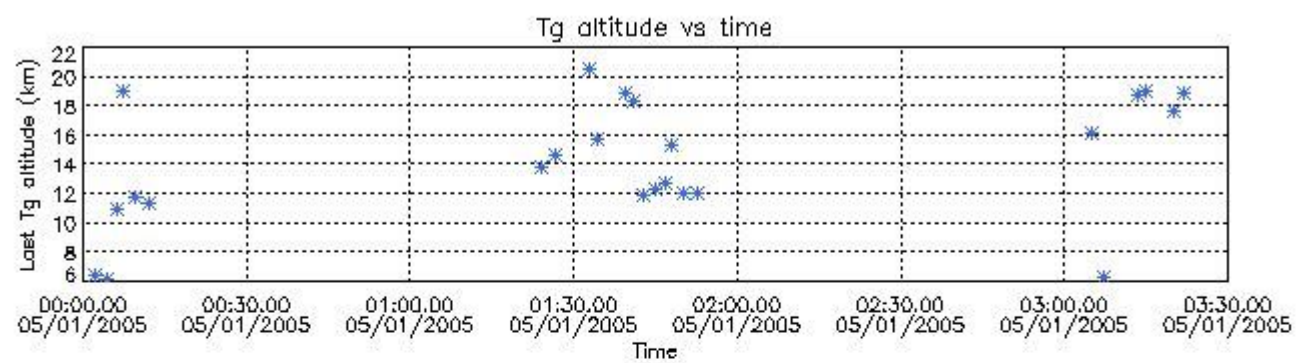
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.170	15.094	14.598
St. deviation:	4.2511	6.9654	4.0608
Maximum:	20.430	25.712	18.114
Minimum:	6.1498	4.7405	5.3348
Number of data:	24.000	17.000	9.0000

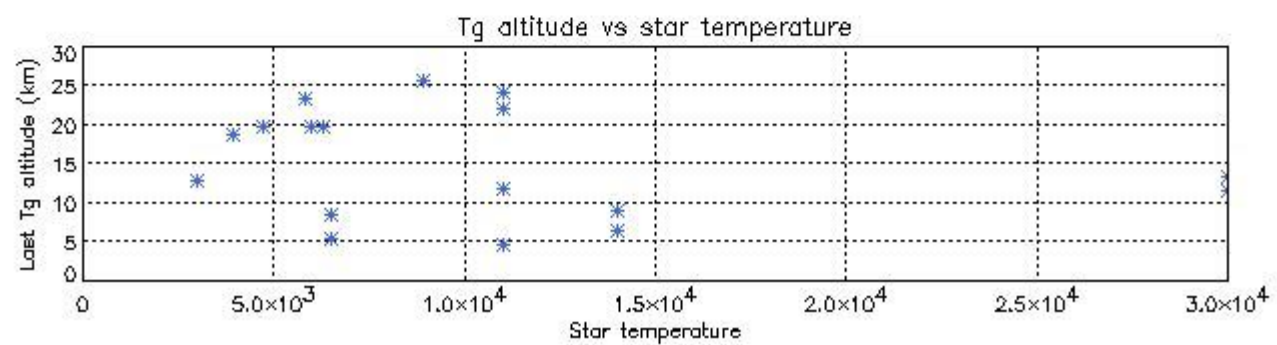
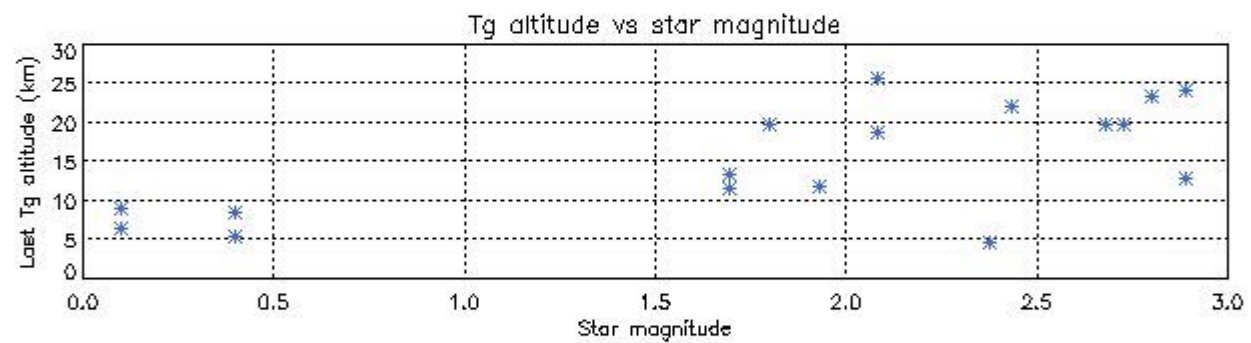
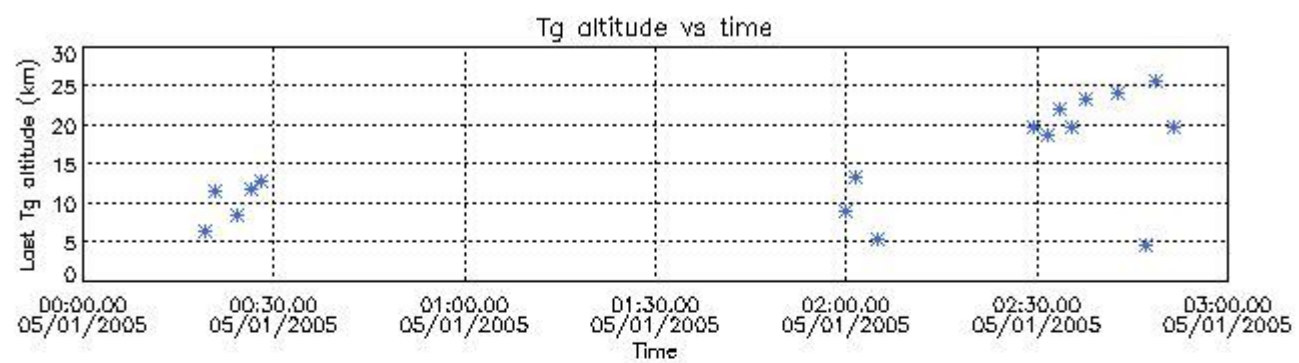
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

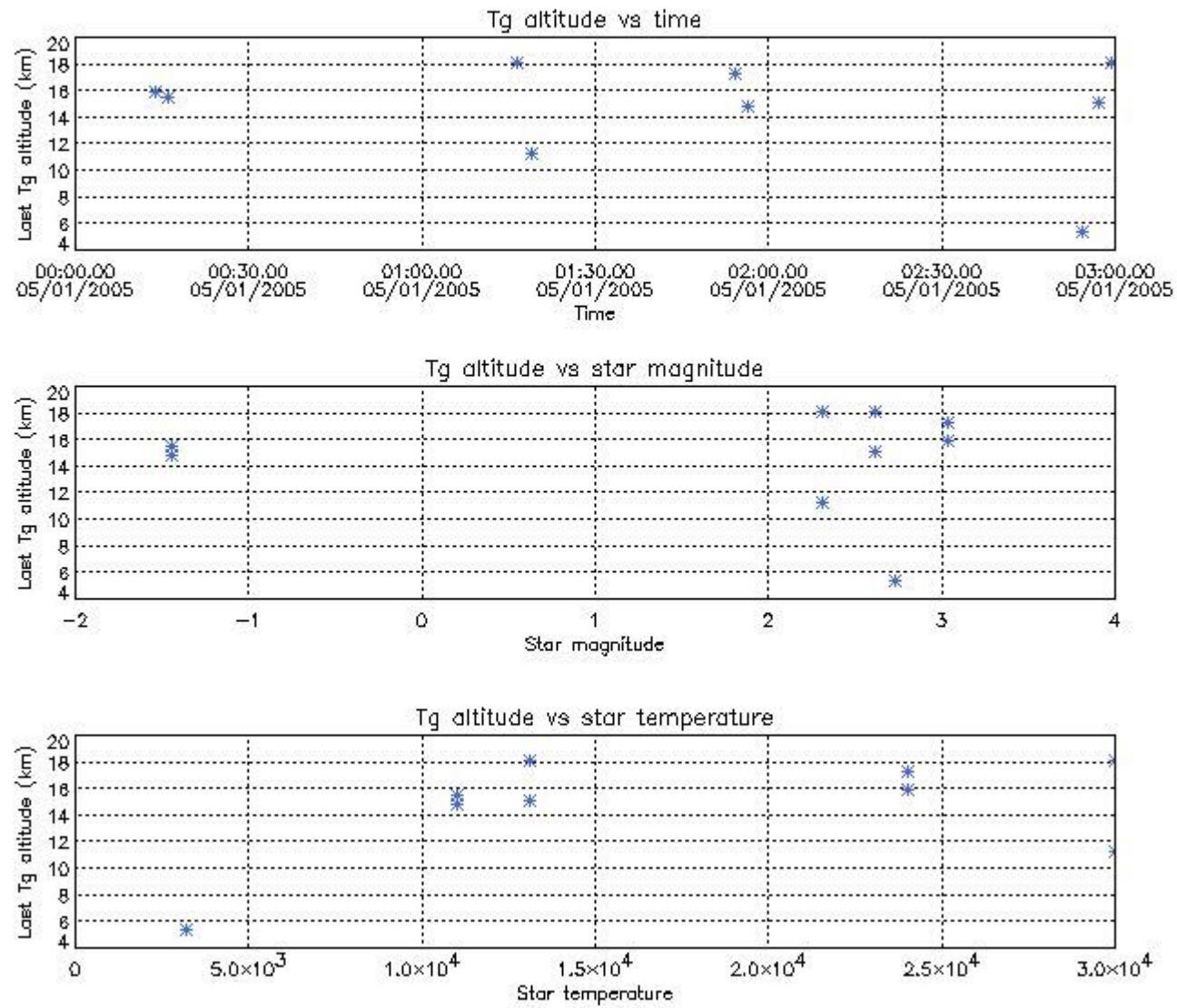
Tangent altitude at which the star is lost



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

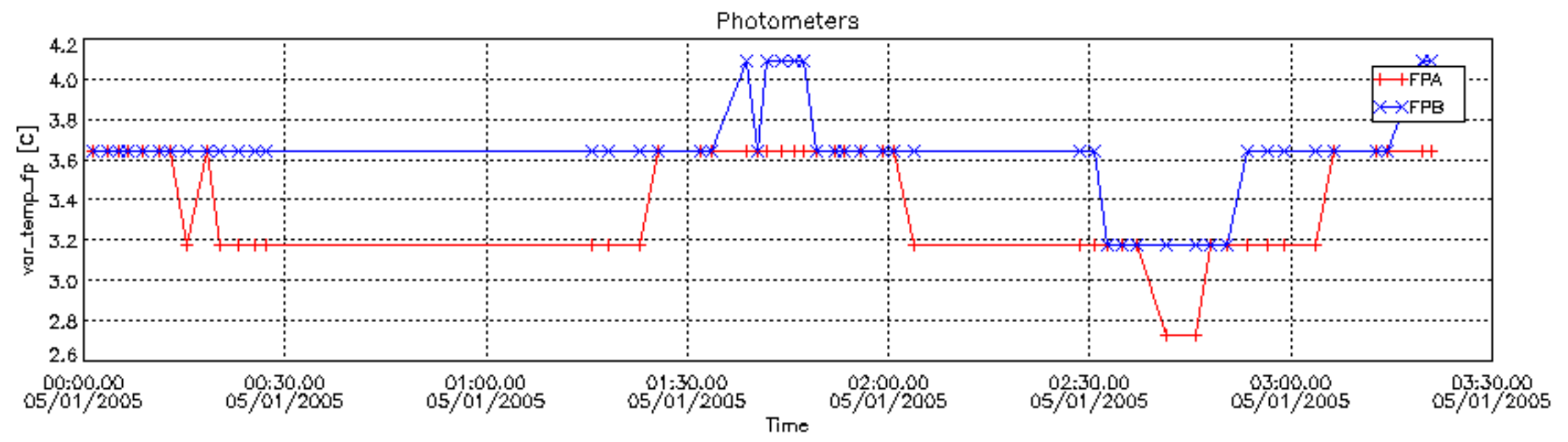
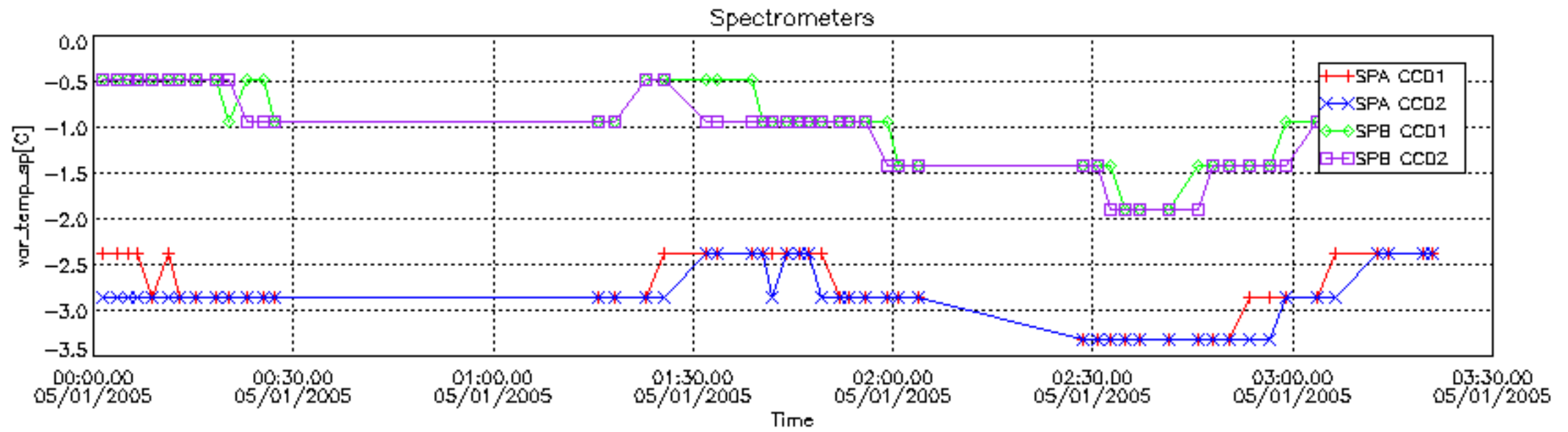
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1462.0	1447.1	1461.6	1448.1
St. deviation:	3.8306	5.9575	5.4506	7.7048
Maximum:	1490.0	1479.0	1518.0	1521.0
Minimum:	1445.0	1420.0	1434.0	1424.0
Number of data:	31050.	31050.	21100.	21100.

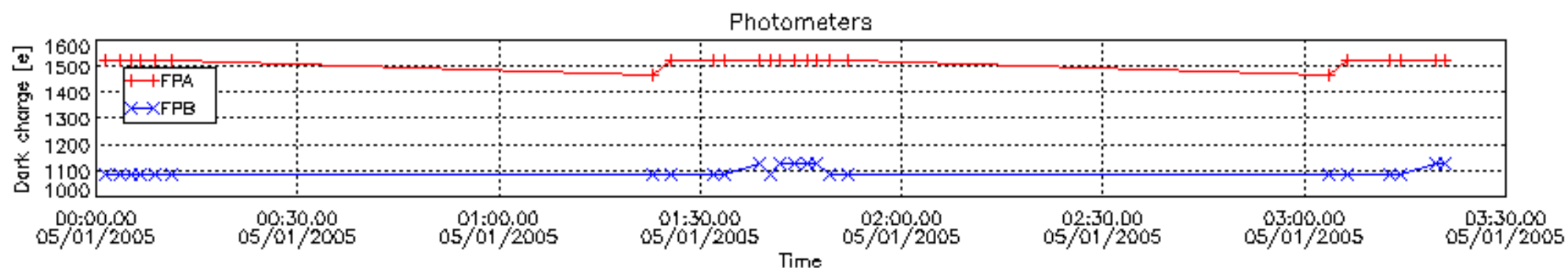
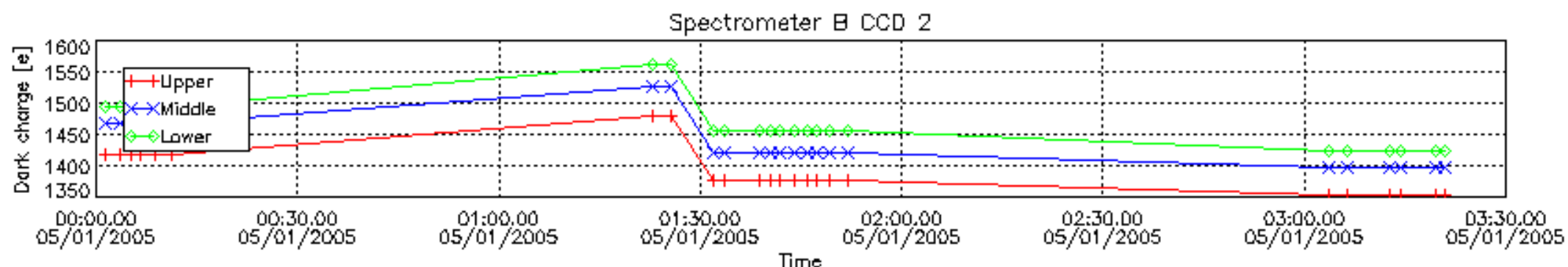
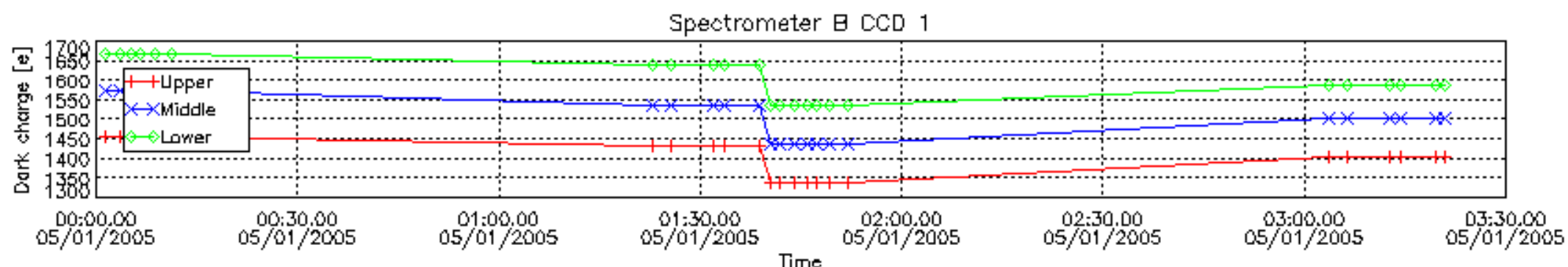
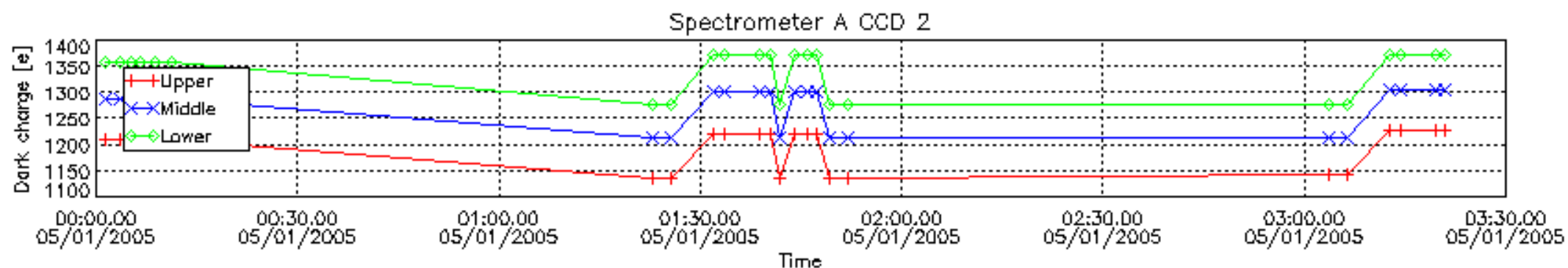
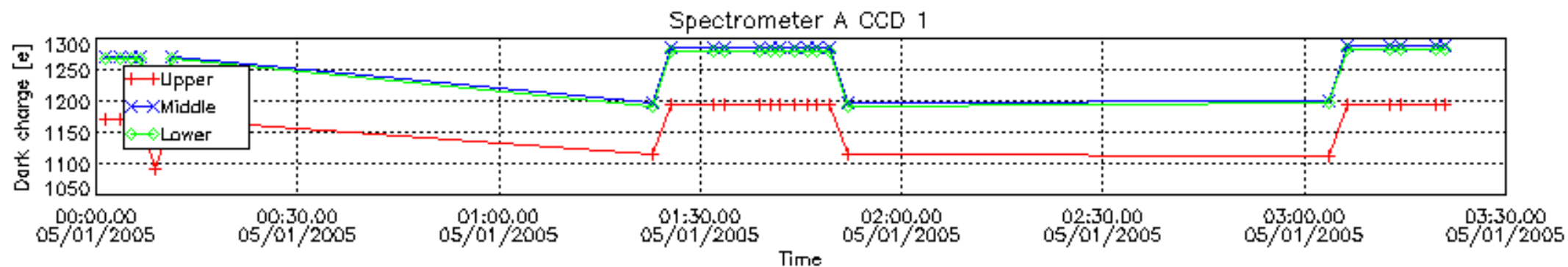
## 8. Auxiliary Data Files used for the production reported in section 2.2

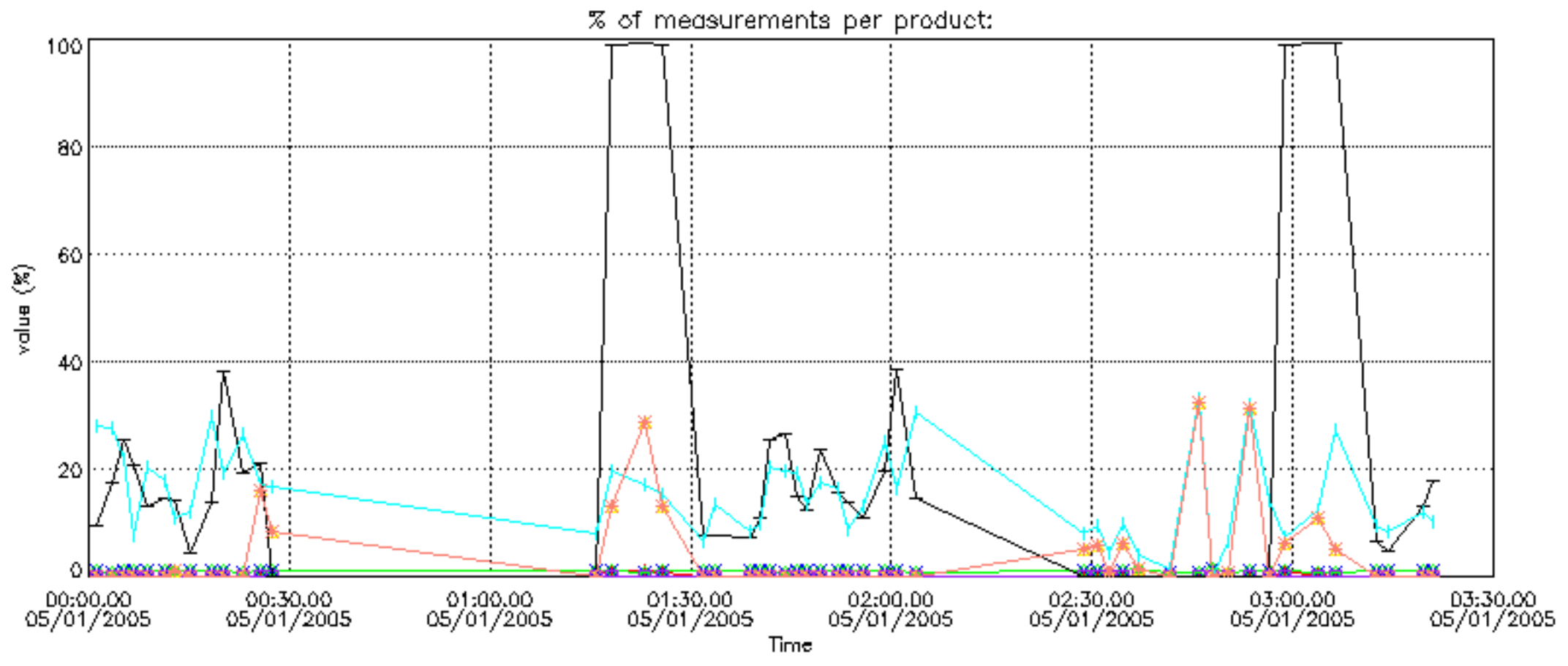
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	05-JAN-2005 00:01:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20041217_142407_20041216_000000_20100101_000000	1	05-JAN-2005 00:01:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	05-JAN-2005 00:01:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JAN-2005 00:01:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	05-JAN-2005 00:01:17
ECMWF_FILE	AUX_ECF_AXNECM20050104_060929_20050104_210000_20050105_090000	1	05-JAN-2005 00:01:17
OPTIONAL_ECMWF_FILE	NOT USED	1	05-JAN-2005 00:01:17
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20050104_233927_20050104_184700_20050114_201311	1	05-JAN-2005 00:01:17

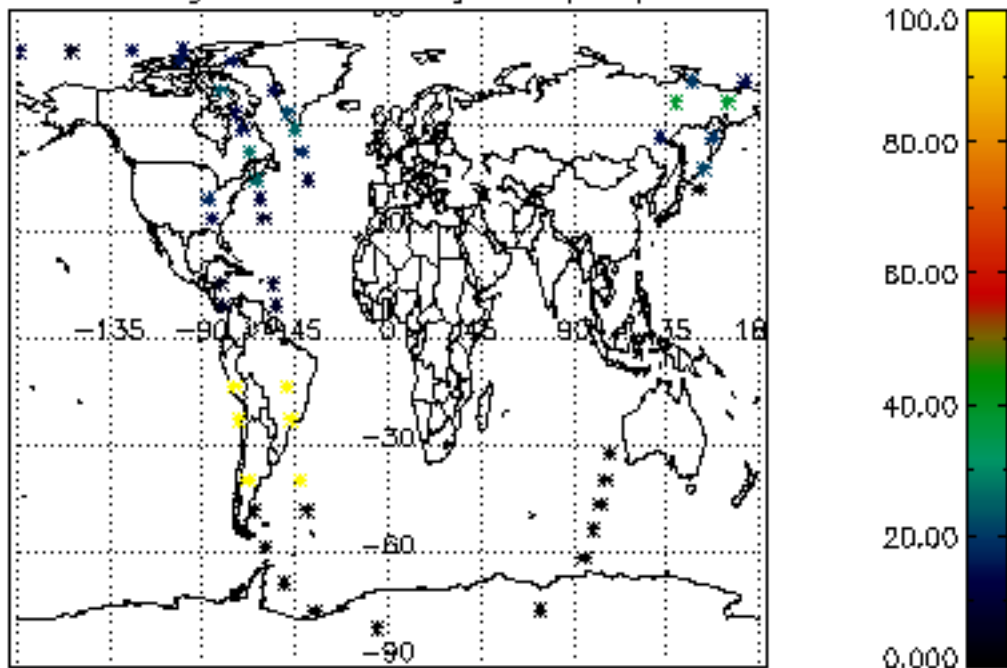




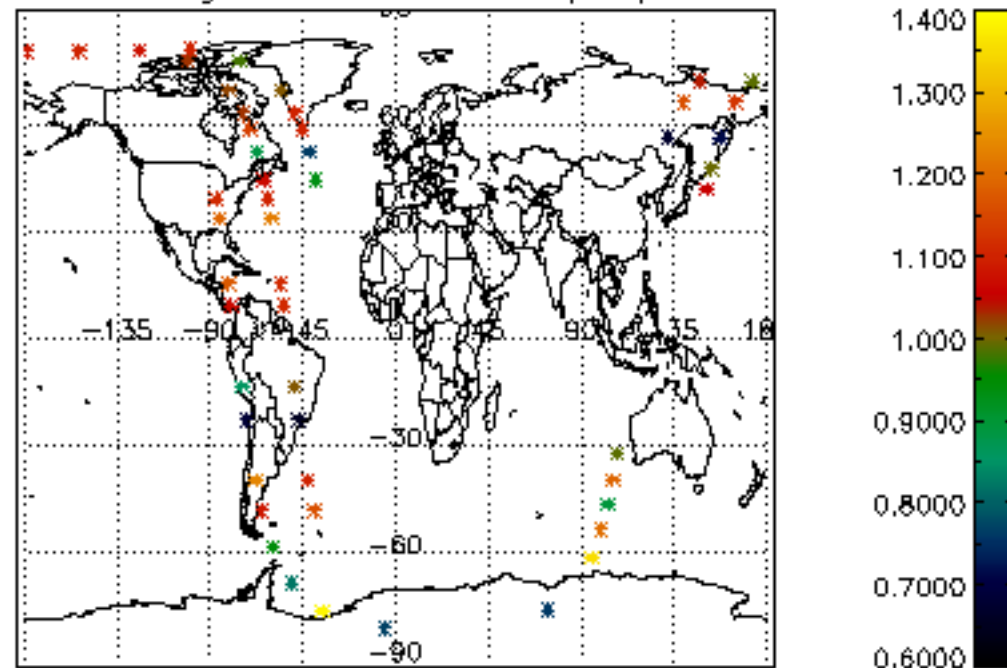




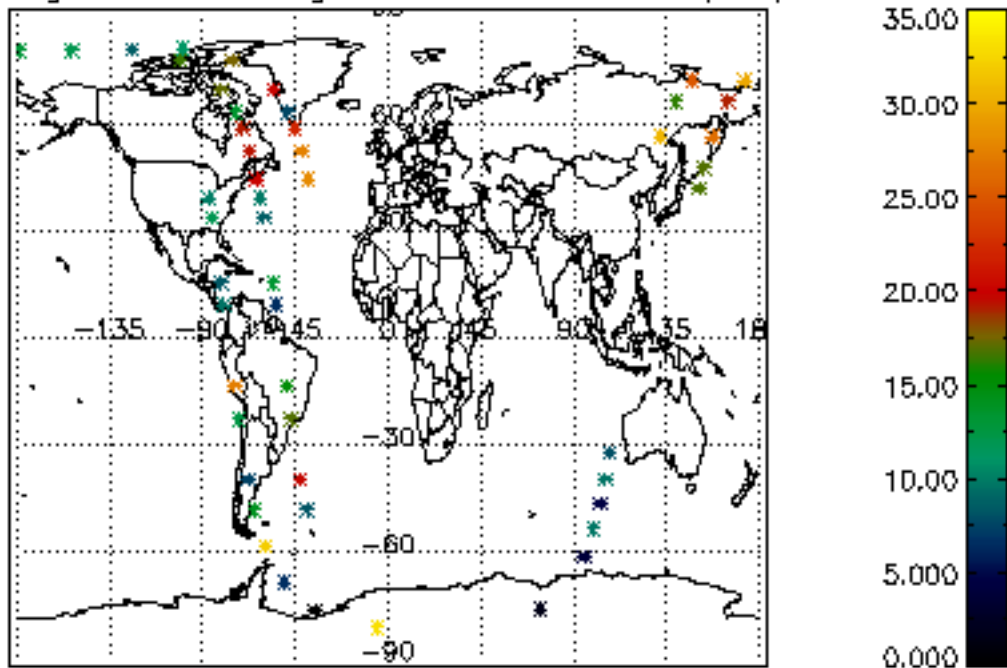
Percentage of cosmic ray hits per profile



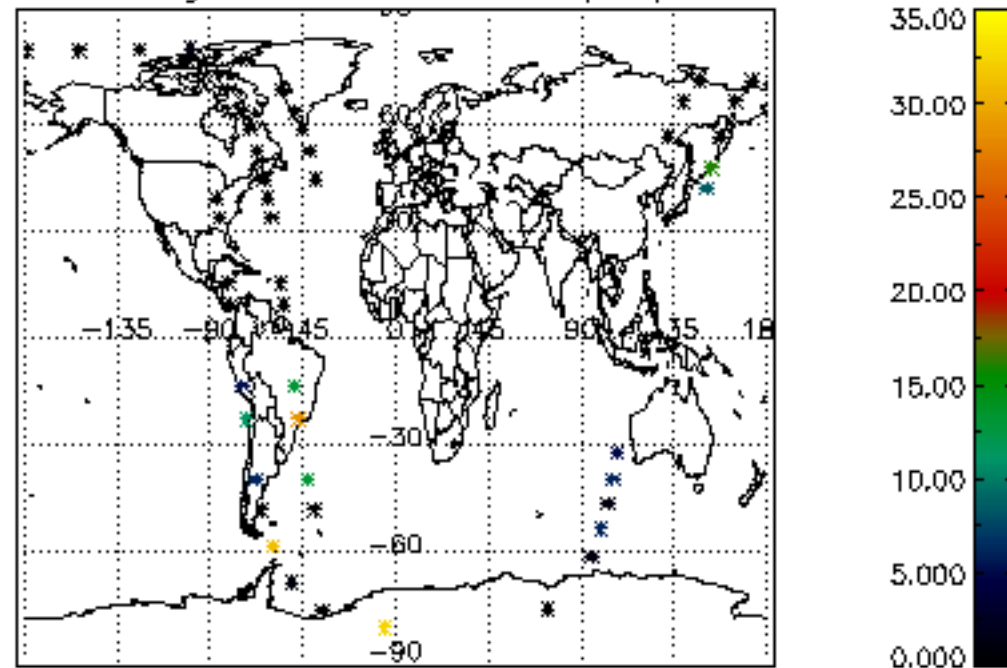
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

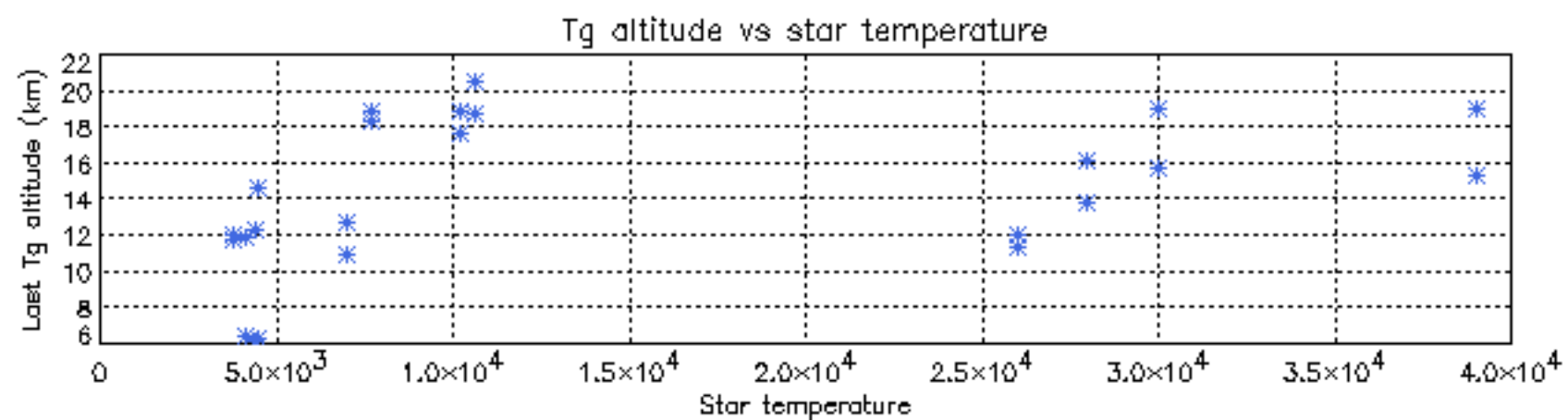
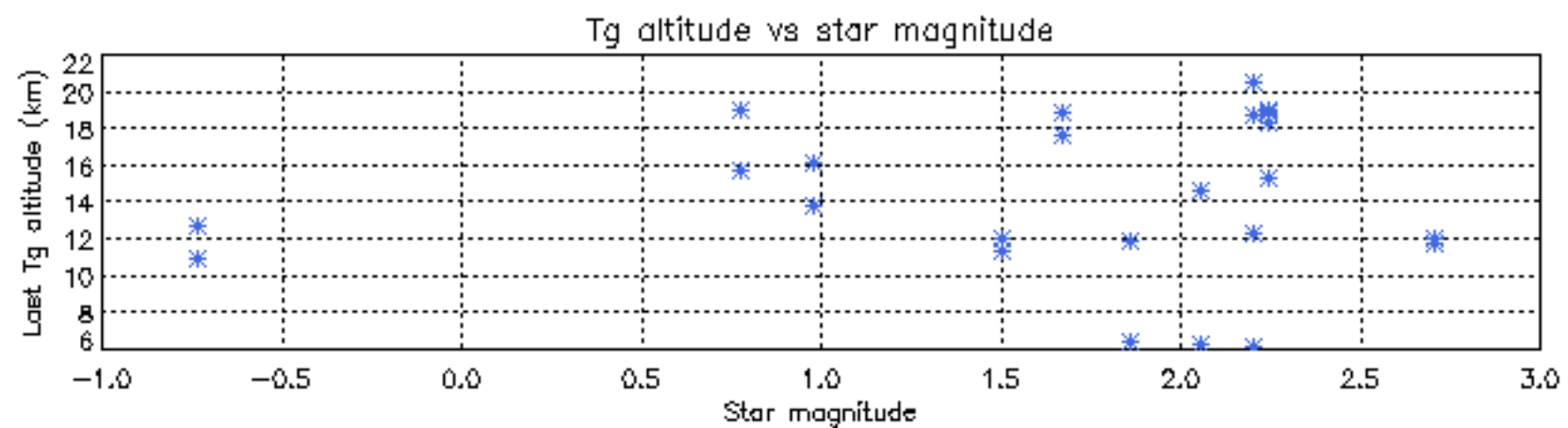
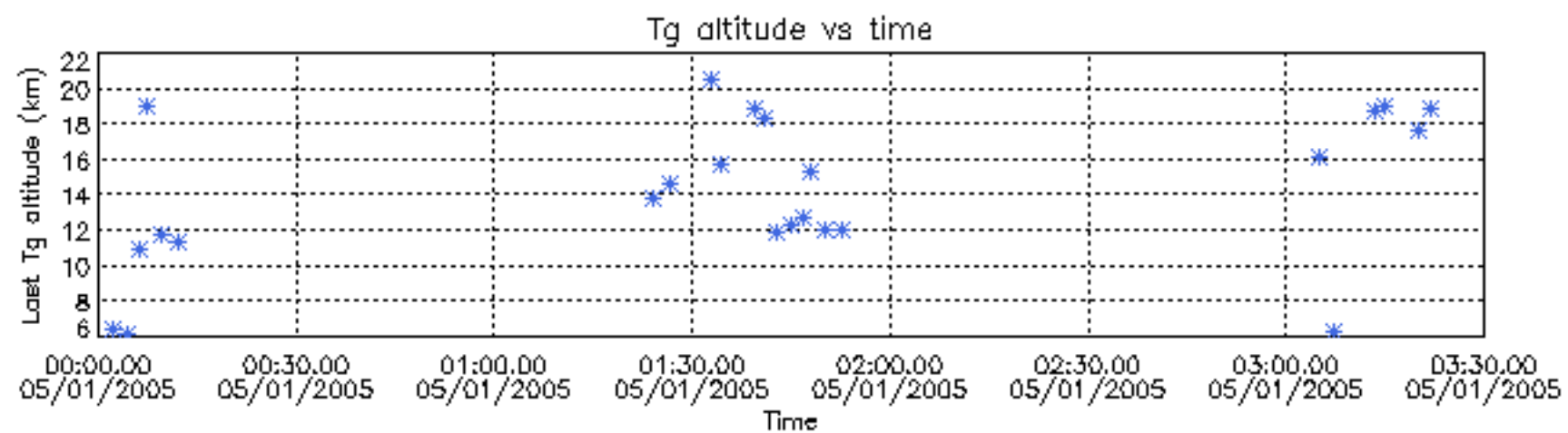


Percentage of saturation errors per profile

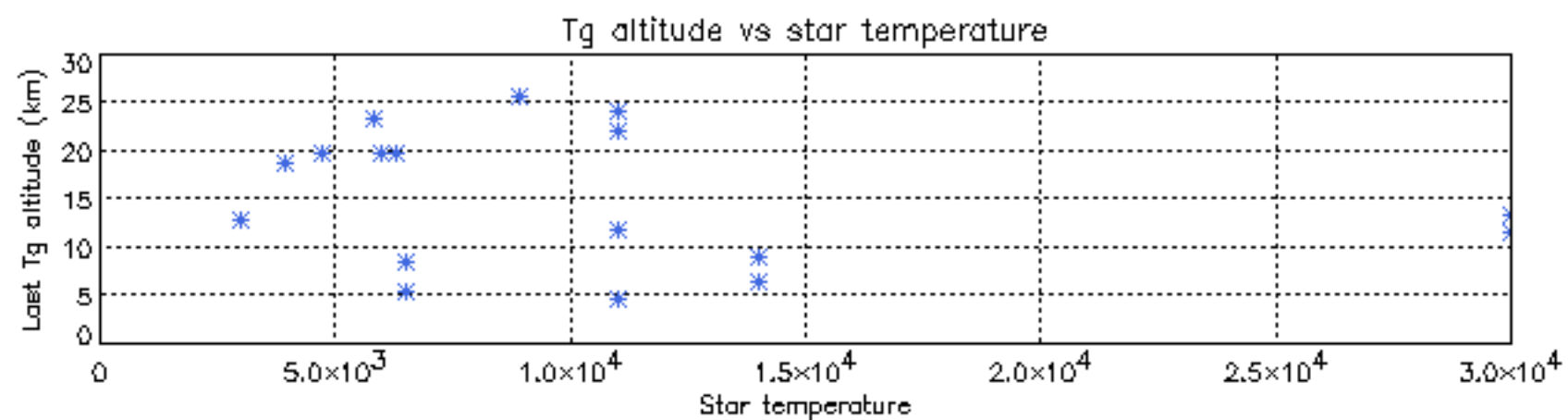
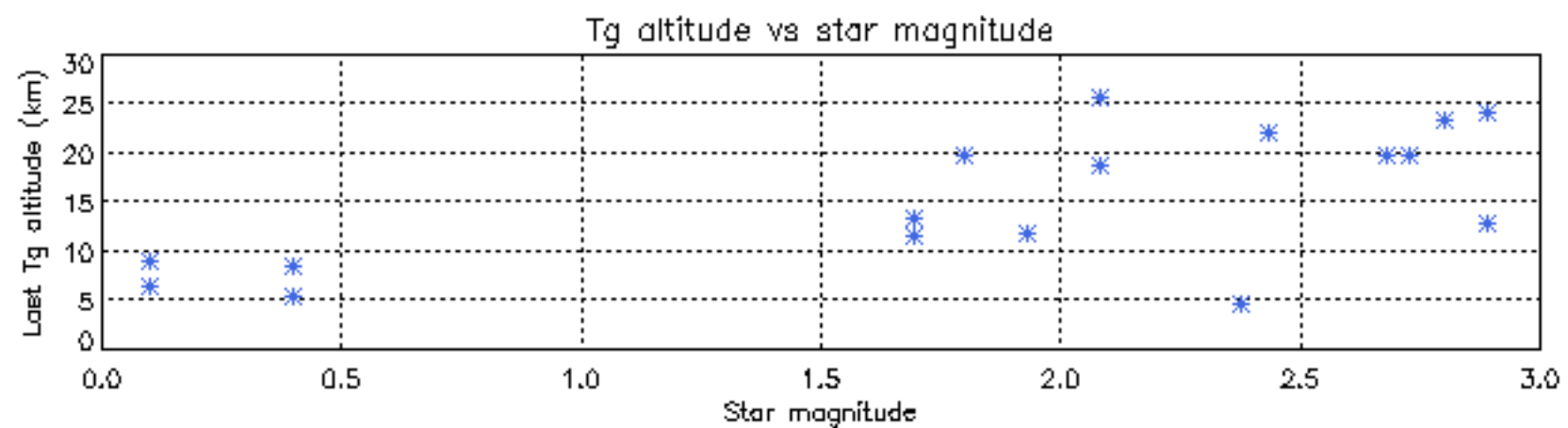
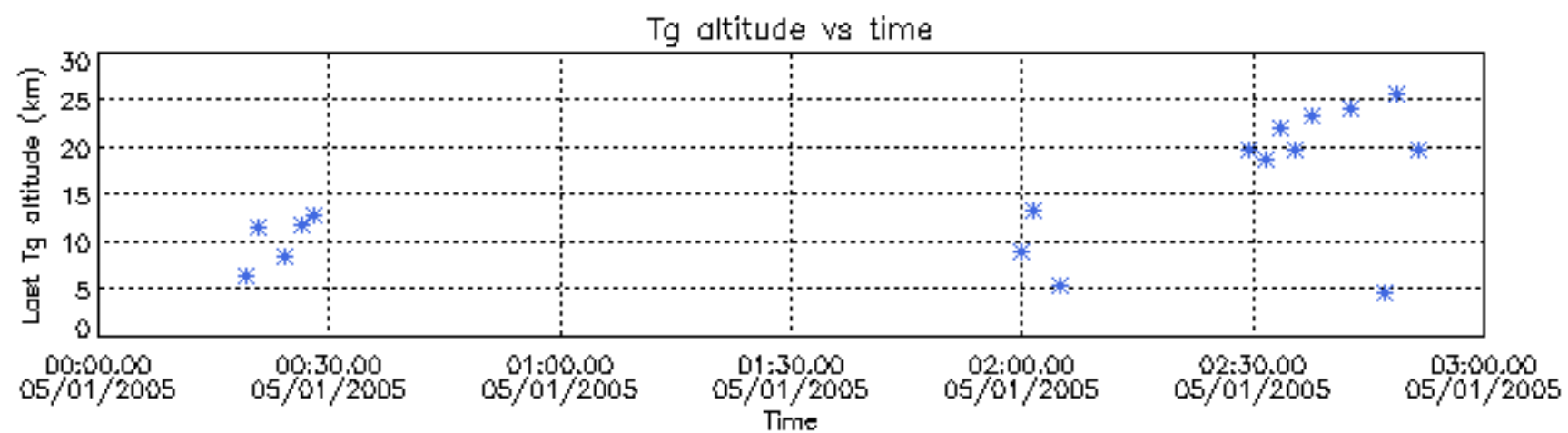




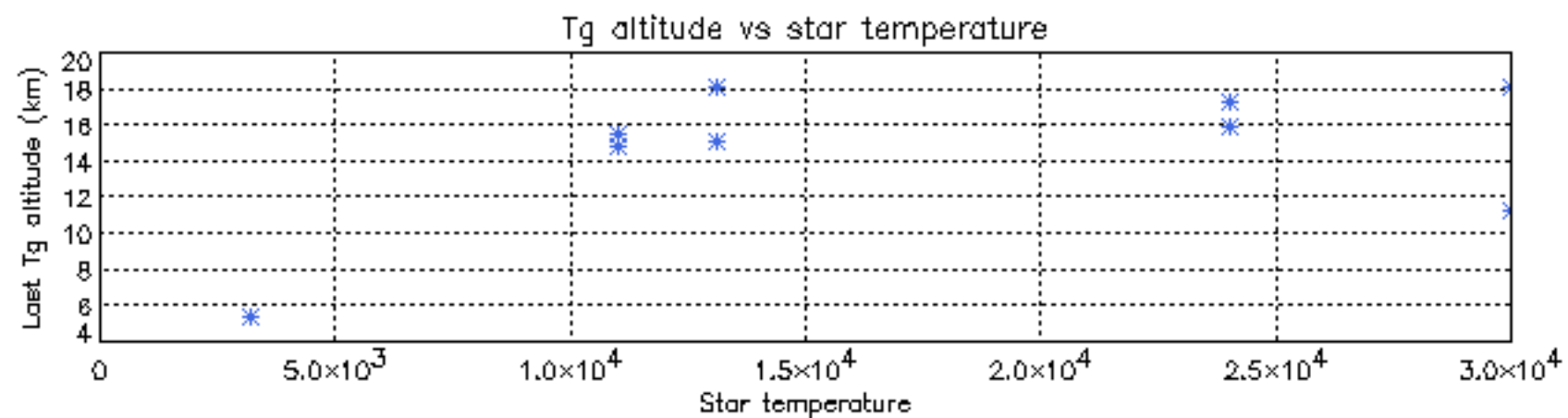
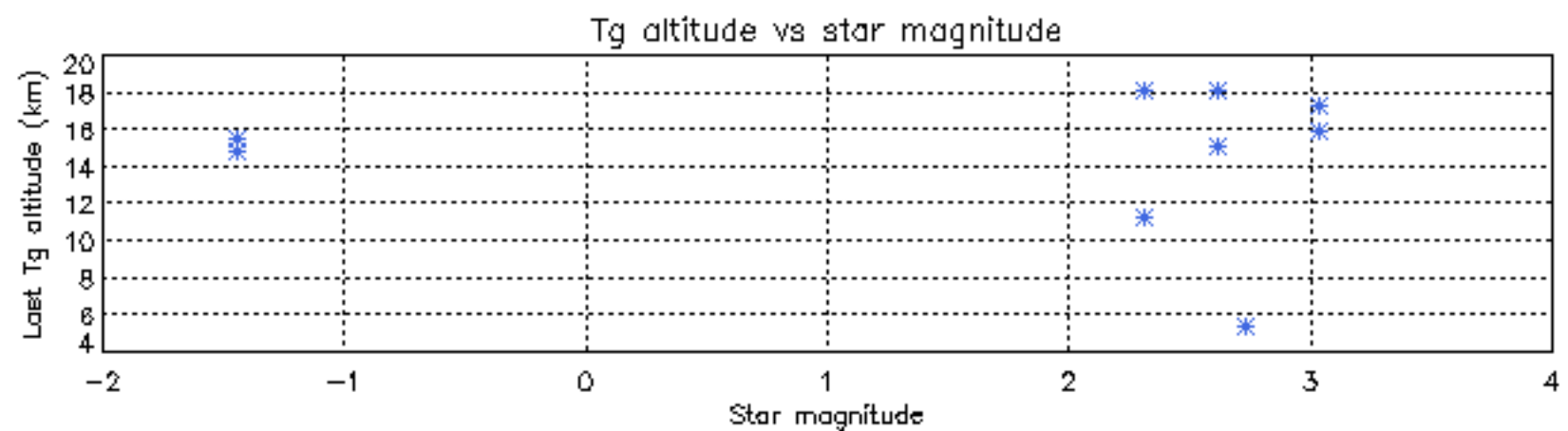
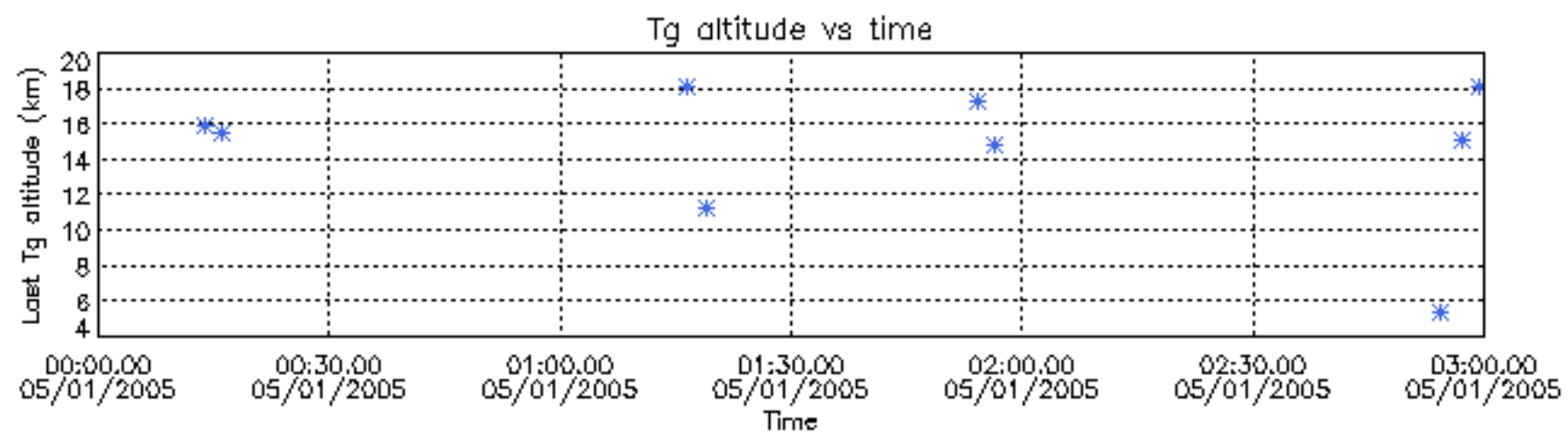
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 7; 227.0; 01-JAN-2005 00:18:28; Dark ; 55.0; 12; Alp1Cru ; 0.77; 30000;occ; 110; 0;14843  
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 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  
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 29; 3592.4; 01-JAN-2005 01:14:33; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;14843  
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 21; 2090.4; 01-JAN-2005 02:30:07; Dark ; 69.5; 8; 10Alp CMI ; 0.40; 6500;occ; 139; 0;14844  
 22; 2226.3; 01-JAN-2005 02:32:23; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;14844  
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 27; 2800.2; 01-JAN-2005 02:41:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;14844  
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 23; 1173.0; 01-JAN-2005 03:55:25; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;14845  
 24; 1340.7; 01-JAN-2005 03:58:13; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;14845  
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 32; 2470.6; 01-JAN-2005 04:17:03; Bright; 41.0; 114; 3Iot Aur ; 2.69; 4600;occ; 82; 0;14845  
 33; 2563.8; 01-JAN-2005 04:18:36; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;14845  
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 8;-1009.1; 01-JAN-2005 04:59:39; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;14845  
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 27; 1769.0; 01-JAN-2005 05:45:57; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;14846  
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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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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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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
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21; 2293.4; 12-JAN-2005 01:47:31; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;15001
22; 2397.7; 12-JAN-2005 01:49:15; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;15001
23; 2488.3; 12-JAN-2005 01:50:46; Bright; 39.0; 114; 3Iot Aur ; 2.69; 4600;occ; 78; 0;15001
24; 2672.5; 12-JAN-2005 01:53:50; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;15001
25; 2799.9; 12-JAN-2005 01:55:58; Bright; 52.5; 175; 39Del Per ; 3.01; 19400;occ; 105; 0;15001

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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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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
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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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12; -173.4; 12-JAN-2005 07:48:48; Dark ; 94.0; 15; 67Alp Vir ; 0.98; 28000;occ; 188; 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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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
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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
13;-1966.1; 12-JAN-2005 08:59:31; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;15005
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 13;-2210.1; 12-JAN-2005 13:57:15; Bright; 52.0; 32; 77Eps UMA ; 1.76; 11000;occ; 104; 0;15008  
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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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 33; 4263.7; 16-JAN-2005 00:13:54; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;15057  
 34; 4453.4; 16-JAN-2005 00:17:04; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;15057  
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