

# GOMOS Daily Report 12-JAN-2006

## 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	14JAN2006 04:32:41

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (12JAN2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13JAN2006 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)

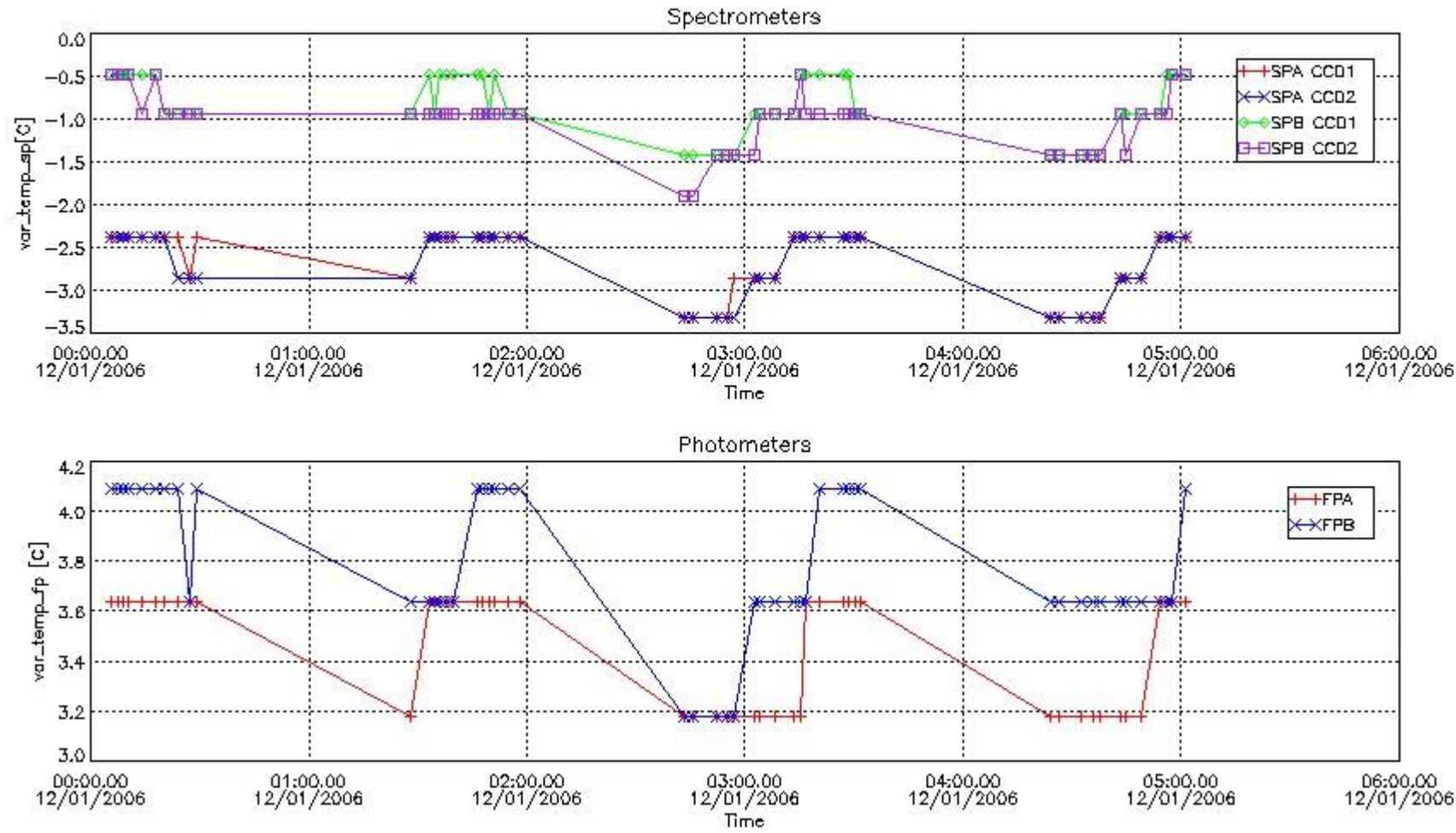
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060112_000550_000000392044_00131_20225_0004.N1	12-JAN-2006 00:05:50	Dark	38.500	124	The Car	2.7640	30000.	77	20225	No
2	GOM_TRA_1PNPDE20060112_000721_000000372044_00131_20225_0005.N1	12-JAN-2006 00:07:21	Dark	37.000	29	Bet Car	1.6720	10200.	74	20225	No
3	GOM_TRA_1PNPDE20060112_000909_000000402044_00131_20225_0006.N1	12-JAN-2006 00:09:09	Dark	40.000	71	Iot Car	2.2460	7700.0	80	20225	No
4	GOM_TRA_1PNPDE20060112_001029_000000522044_00131_20225_0007.N1	12-JAN-2006 00:10:29	Dark	52.000	41	Eps Car	1.8600	4100.0	104	20225	No
5	GOM_TRA_1PNPDE20060112_001414_000000522044_00131_20225_0008.N1	12-JAN-2006 00:14:14	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	20225	No
6	GOM_TRA_1PNPDE20060112_001743_000000472044_00131_20225_0009.N1	12-JAN-2006 00:17:43	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	20225	No
7	GOM_TRA_1PNPDE20060112_002019_000000422044_00131_20225_0010.N1	12-JAN-2006 00:20:19	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	20225	No
8	GOM_TRA_1PNPDE20060112_002401_000000522044_00131_20225_0011.N1	12-JAN-2006 00:24:01	Twilight	51.500	1	9Alp CMa	-1.4400	11000.	103	20225	No
9	GOM_TRA_1PNPDE20060112_002714_000000512044_00131_20225_0012.N1	12-JAN-2006 00:27:14	Bright	50.500	7	19Bet Ori	0.10000	14000.	101	20225	No
10	GOM_TRA_1PNPDE20060112_002857_000000402044_00131_20225_0013.N1	12-JAN-2006 00:28:57	Bright	39.500	30	46Eps Ori	1.6940	30000.	79	20225	No
11	GOM_TRA_1PNPDE20060112_012749_000000472044_00131_20225_0000.N1	12-JAN-2006 01:27:49	Twilight	46.500	16	21Alp Sco	1.0200	3000.0	93	20225	No
12	GOM_TRA_1PNPDE20060112_013257_000000372044_00131_20225_0001.N1	12-JAN-2006 01:32:57	Twilight	37.000	131	Gam Lup	2.8000	26000.	74	20225	No
13	GOM_TRA_1PNPDE20060112_013436_000000392044_00131_20225_0002.N1	12-JAN-2006 01:34:36	Dark	38.500	109	Bet Lup	2.6770	26000.	77	20225	No
14	GOM_TRA_1PNPDE20060112_013607_000000392044_00131_20225_0003.N1	12-JAN-2006 01:36:07	Dark	39.000	78	Alp Lup	2.3040	28000.	78	20225	No
15	GOM_TRA_1PNPDE20060112_013801_000000372044_00132_20226_0004.N1	12-JAN-2006 01:38:01	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	20226	No
16	GOM_TRA_1PNPDE20060112_013945_000000432044_00132_20226_0005.N1	12-JAN-2006 01:39:45	Dark	42.500	10	Bet Cen	0.61000	28000.	85	20226	No
17	GOM_TRA_1PNPDE20060112_014627_000000392044_00132_20226_0006.N1	12-JAN-2006 01:46:27	Dark	38.500	124	The Car	2.7640	30000.	77	20226	No
18	GOM_TRA_1PNPDE20060112_014757_000000382044_00132_20226_0007.N1	12-JAN-2006 01:47:57	Dark	38.000	29	Bet Car	1.6720	10200.	76	20226	No
19	GOM_TRA_1PNPDE20060112_014946_000000472044_00132_20226_0008.N1	12-JAN-2006 01:49:46	Dark	47.000	71	Iot Car	2.2460	7700.0	94	20226	No
20	GOM_TRA_1PNPDE20060112_015105_000000452044_00132_20226_0009.N1	12-JAN-2006 01:51:05	Dark	44.500	41	Eps Car	1.8600	4100.0	89	20226	No
21	GOM_TRA_1PNPDE20060112_015450_000000422044_00132_20226_0010.N1	12-JAN-2006 01:54:50	Dark	42.000	2	Alp Car	-0.73600	7000.0	84	20226	No
22	GOM_TRA_1PNPDE20060112_015819_000000432044_00132_20226_0011.N1	12-JAN-2006 01:58:19	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	20226	No
23	GOM_TRA_1PNPDE20060112_024319_000000382044_00132_20226_0000.N1	12-JAN-2006 02:43:19	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	20226	No
24	GOM_TRA_1PNPDE20060112_024547_000000352044_00132_20226_0001.N1	12-JAN-2006 02:45:47	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	20226	No
25	GOM_TRA_1PNPDE20060112_025202_000000362044_00132_20226_0002.N1	12-JAN-2006 02:52:02	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	20226	No
26	GOM_TRA_1PNPDE20060112_025504_000000362044_00132_20226_0003.N1	12-JAN-2006 02:55:04	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	20226	No
27	GOM_TRA_1PNPDE20060112_025649_000000332044_00132_20226_0004.N1	12-JAN-2006 02:56:49	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	20226	No
28	GOM_TRA_1PNPDE20060112_030234_000000392044_00132_20226_0005.N1	12-JAN-2006 03:02:34	Twilight	39.000	120	1Del Oph	2.7340	3200.0	78	20226	No
29	GOM_TRA_1PNPDE20060112_030359_000000362044_00132_20226_0006.N1	12-JAN-2006 03:03:59	Twilight	35.500	98	13Zet Oph	2.5710	30000.	71	20226	No
30	GOM_TRA_1PNPDE20060112_030826_000000512044_00132_20226_0007.N1	12-JAN-2006 03:08:26	Twilight	50.500	16	21Alp Sco	1.0200	3000.0	101	20226	No
31	GOM_TRA_1PNPDE20060112_031334_000000372044_00132_20226_0008.N1	12-JAN-2006 03:13:34	Twilight	37.000	131	Gam Lup	2.8000	26000.	74	20226	No
32	GOM_TRA_1PNPDE20060112_031513_000000392044_00132_20226_0009.N1	12-JAN-2006 03:15:13	Dark	39.000	109	Bet Lup	2.6770	26000.	78	20226	No
33	GOM_TRA_1PNPDE20060112_031643_000000402044_00132_20226_0010.N1	12-JAN-2006 03:16:43	Dark	40.000	78	Alp Lup	2.3040	28000.	80	20226	No
34	GOM_TRA_1PNPDE20060112_032022_000000412044_00133_20227_0011.N1	12-JAN-2006 03:20:22	Dark	40.500	10	Bet Cen	0.61000	28000.	81	20227	No
35	GOM_TRA_1PNPDE20060112_032703_000000372044_00133_20227_0012.N1	12-JAN-2006 03:27:03	Dark	37.000	124	The Car	2.7640	30000.	74	20227	No
36	GOM_TRA_1PNPDE20060112_032833_000000372044_00133_20227_0013.N1	12-JAN-2006 03:28:33	Dark	37.000	29	Bet Car	1.6720	10200.	74	20227	No
37	GOM_TRA_1PNPDE20060112_033022_000000392044_00133_20227_0014.N1	12-JAN-2006 03:30:22	Dark	39.000	71	Iot Car	2.2460	7700.0	78	20227	No
38	GOM_TRA_1PNPDE20060112_033142_000000452044_00133_20227_0015.N1	12-JAN-2006 03:31:42	Dark	44.500	41	Eps Car	1.8600	4100.0	89	20227	No
39	GOM_TRA_1PNPDE20060112_042355_000000372044_00133_20227_0000.N1	12-JAN-2006 04:23:55	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	20227	No
40	GOM_TRA_1PNPDE20060112_042623_000000342044_00133_20227_0001.N1	12-JAN-2006 04:26:23	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	20227	No
41	GOM_TRA_1PNPDE20060112_043238_000000362044_00133_20227_0002.N1	12-JAN-2006 04:32:38	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	20227	No
42	GOM_TRA_1PNPDE20060112_043541_000000372044_00133_20227_0003.N1	12-JAN-2006 04:35:41	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	20227	No
43	GOM_TRA_1PNPDE20060112_043725_000000332044_00133_20227_0004.N1	12-JAN-2006 04:37:25	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	20227	No
44	GOM_TRA_1PNPDE20060112_044310_000000382044_00133_20227_0005.N1	12-JAN-2006 04:43:10	Twilight	38.000	120	1Del Oph	2.7340	3200.0	76	20227	No
45	GOM_TRA_1PNPDE20060112_044435_000000362044_00133_20227_0006.N1	12-JAN-2006 04:44:35	Twilight	36.000	98	13Zet Oph	2.5710	30000.	72	20227	No
46	GOM_TRA_1PNPDE20060112_044902_000000452044_00133_20227_0007.N1	12-JAN-2006 04:49:02	Twilight	45.000	16	21Alp Sco	1.0200	3000.0	90	20227	No

47	GOM_TRA_1PNPDE20060112_045410_000000392044_00133_20227_0008.N1	12-JAN-2006 04:54:10	Twilight	38.500	131	Gam Lup	2.8000	26000.	77	20227	No
48	GOM_TRA_1PNPDE20060112_045549_000000402044_00133_20227_0009.N1	12-JAN-2006 04:55:49	Dark	40.000	109	Bet Lup	2.6770	26000.	80	20227	No
49	GOM_TRA_1PNPDE20060112_045720_000000402044_00133_20227_0010.N1	12-JAN-2006 04:57:20	Dark	39.500	78	Alp Lup	2.3040	28000.	79	20227	No
50	GOM_TRA_1PNPDE20060112_050058_000000402044_00134_20228_0011.N1	12-JAN-2006 05:00:58	Dark	40.000	10	Bet Cen	0.61000	28000.	80	20228	No

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



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

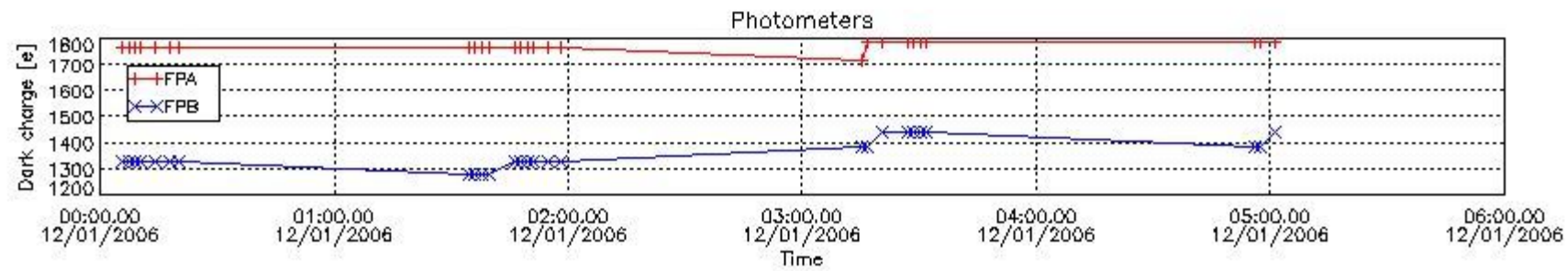
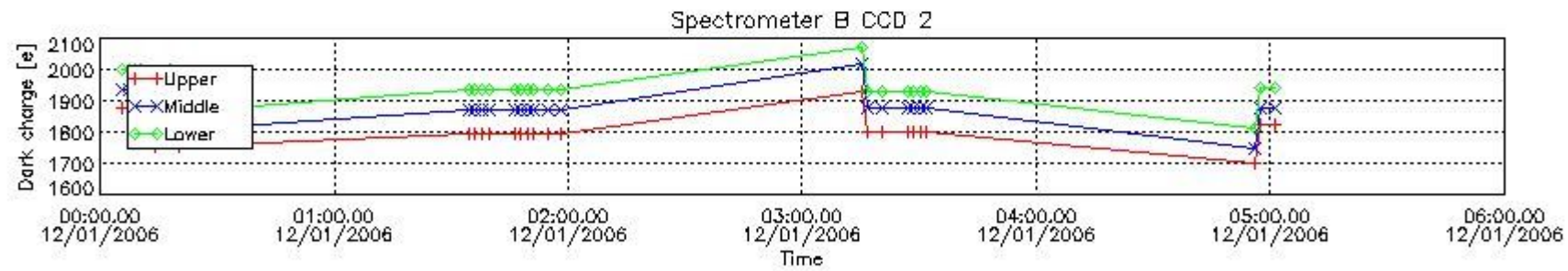
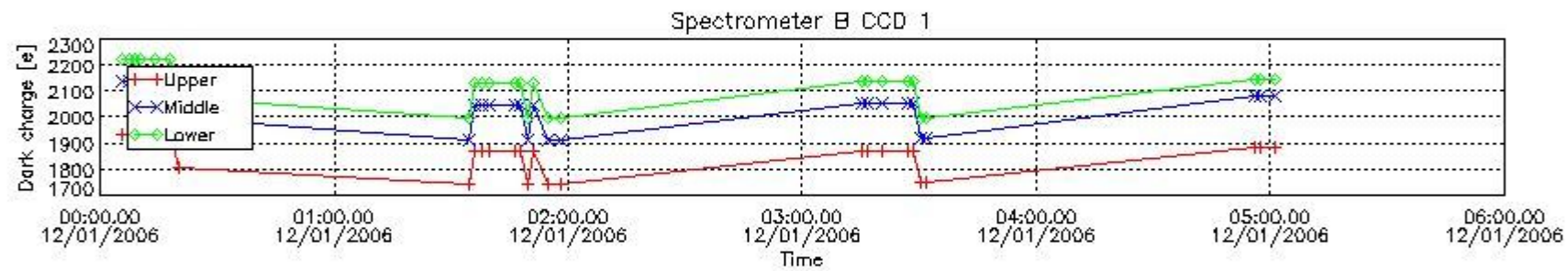
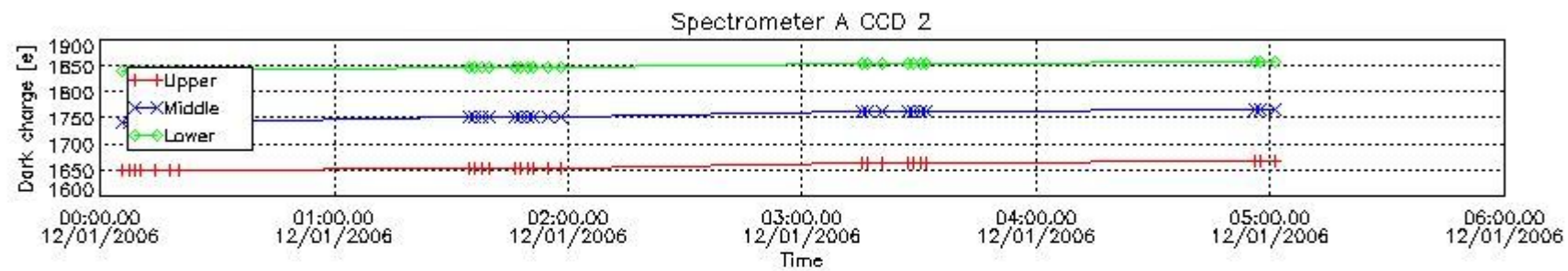
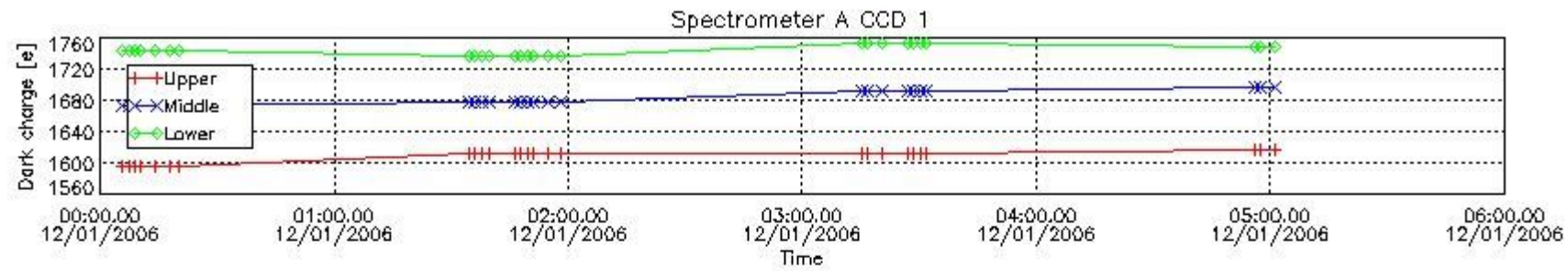
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





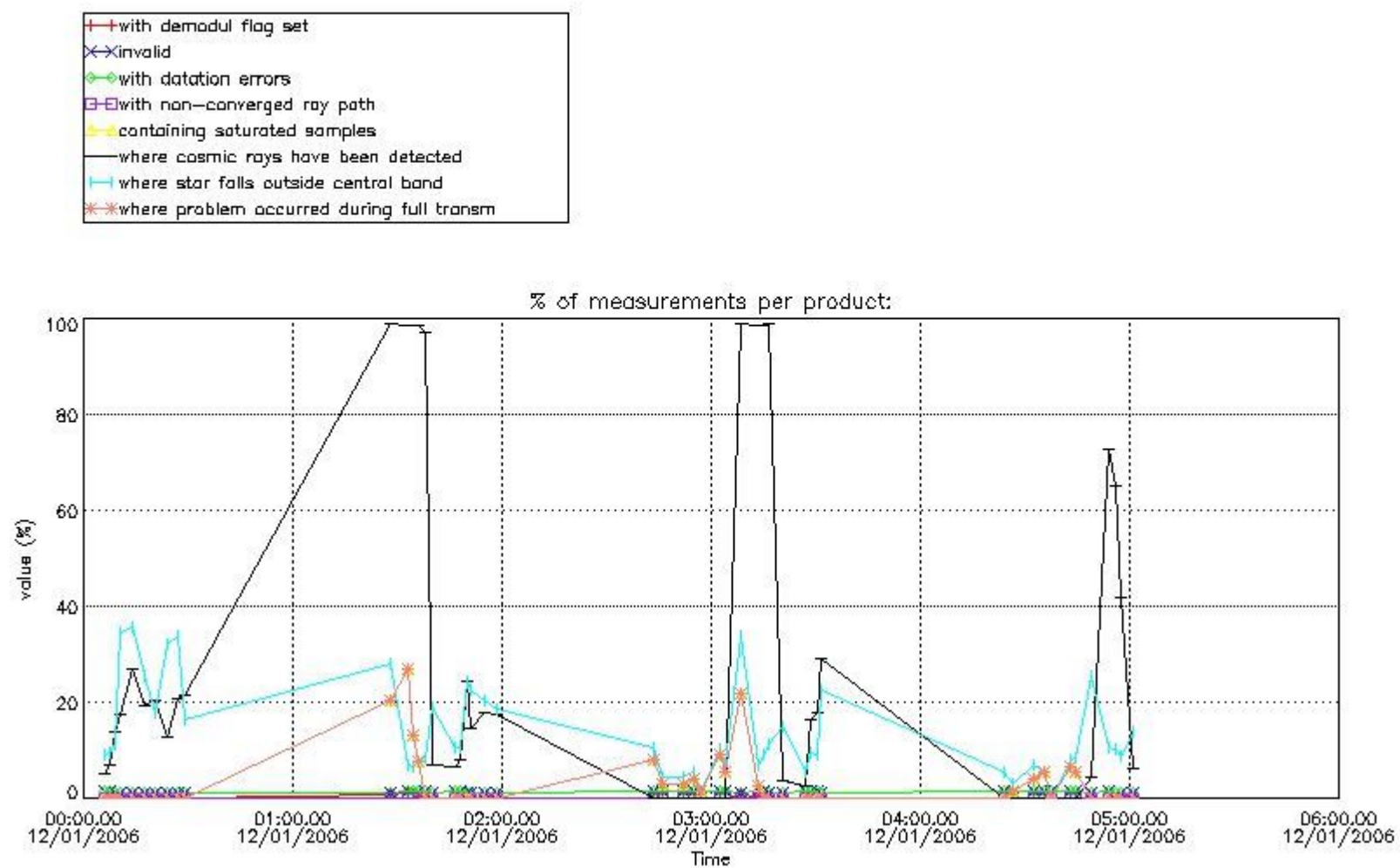
## 5. Demodulation flag and quality information monitoring

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:

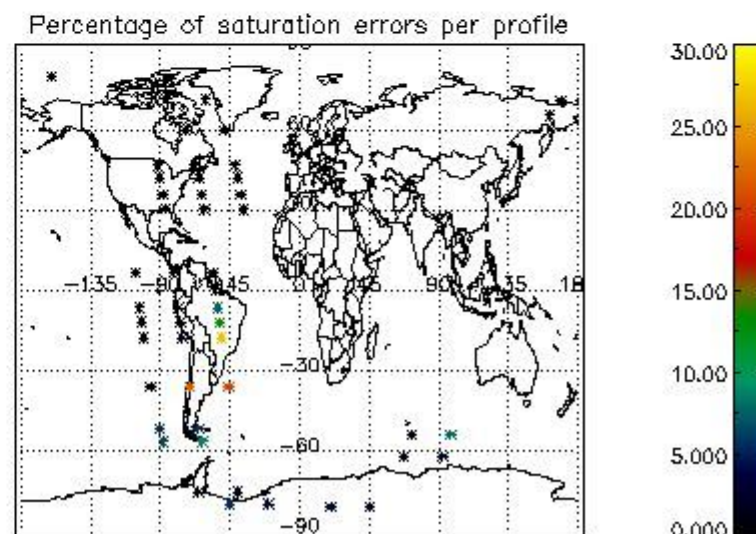
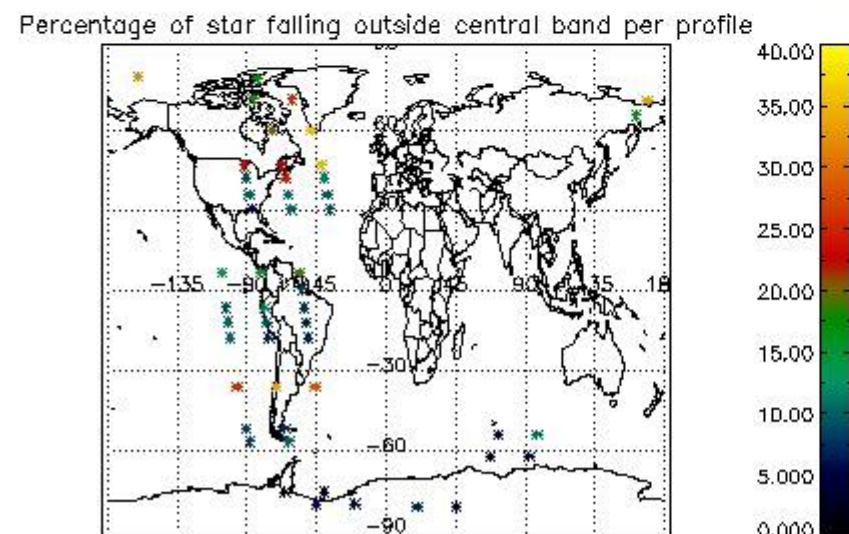
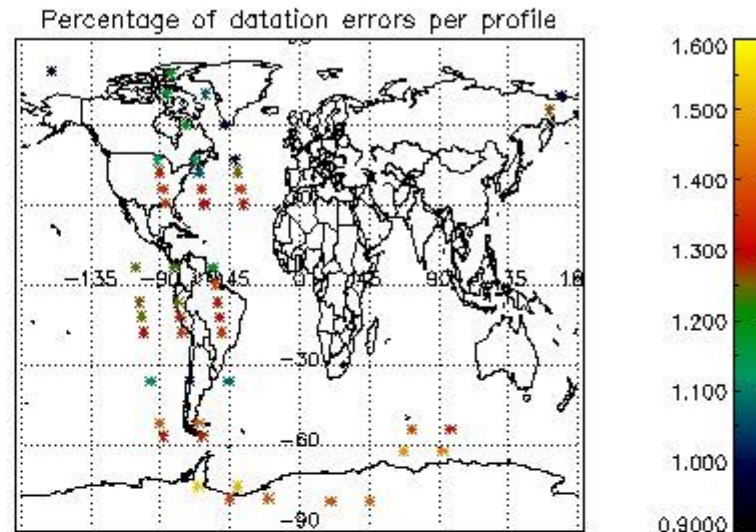
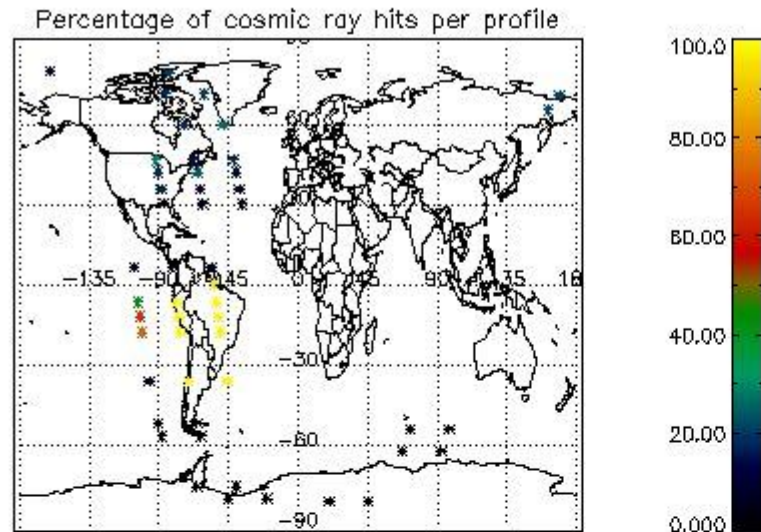
At least one measurement with demodulation flag set:	24.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





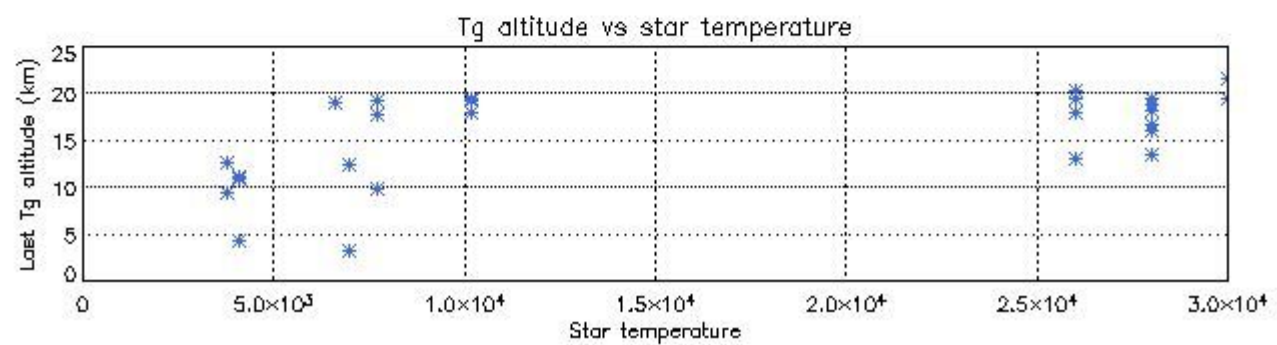
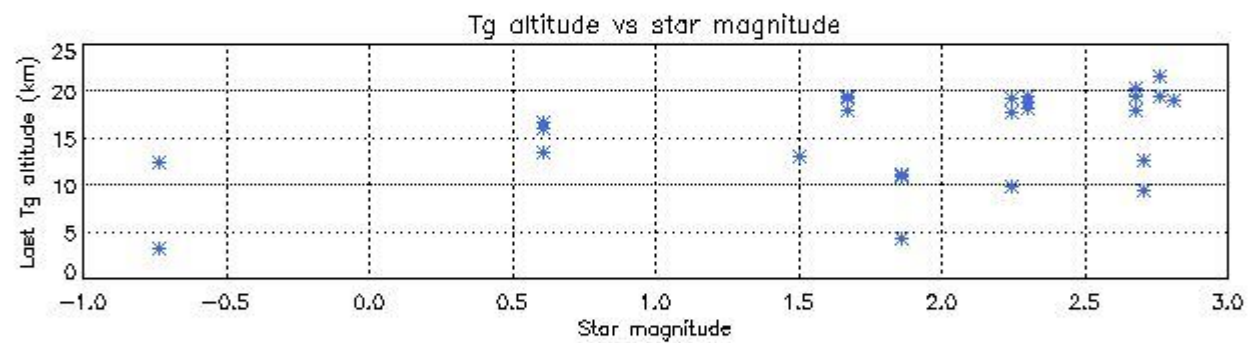
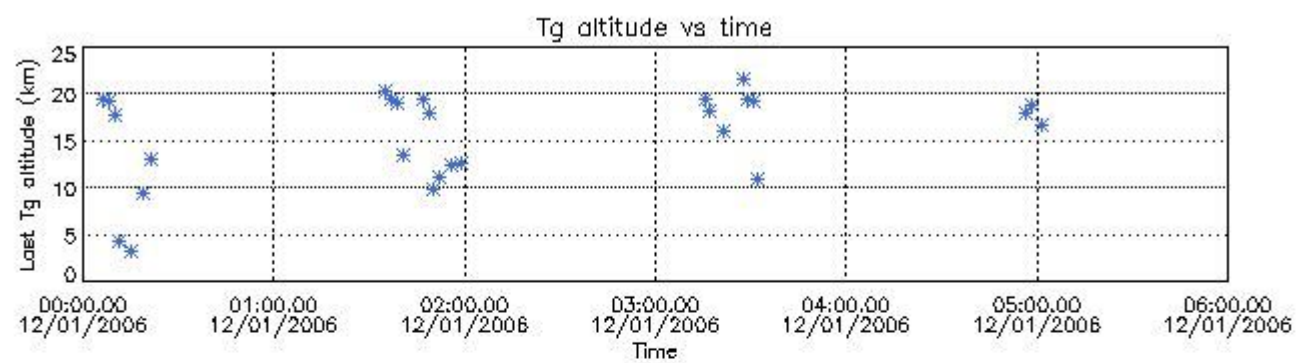
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.561	19.578	14.645
St. deviation:	4.9110	5.4799	6.1614
Maximum:	21.535	25.340	20.261
Minimum:	3.3036	4.8288	4.6689
Number of data:	27.000	12.000	11.000

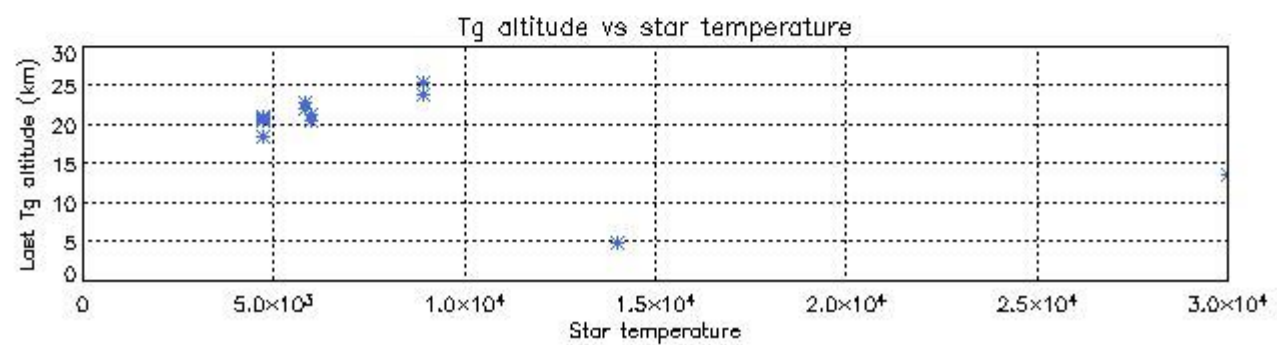
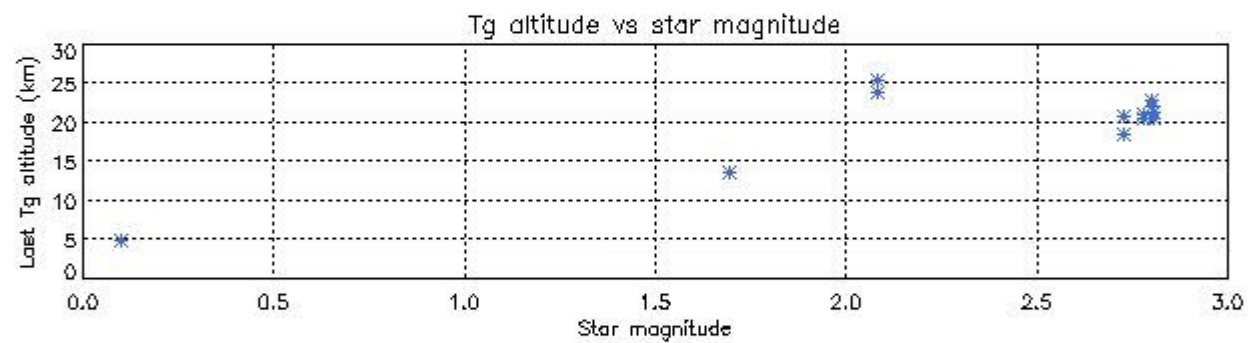
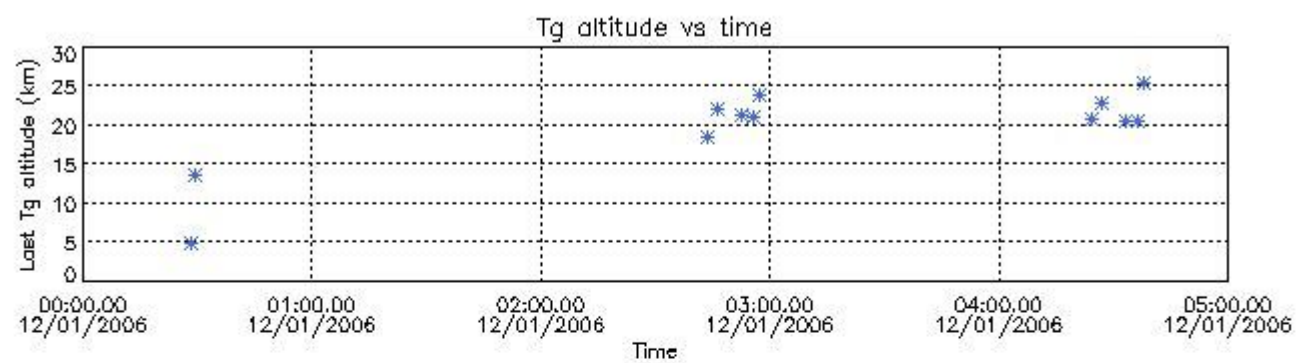
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

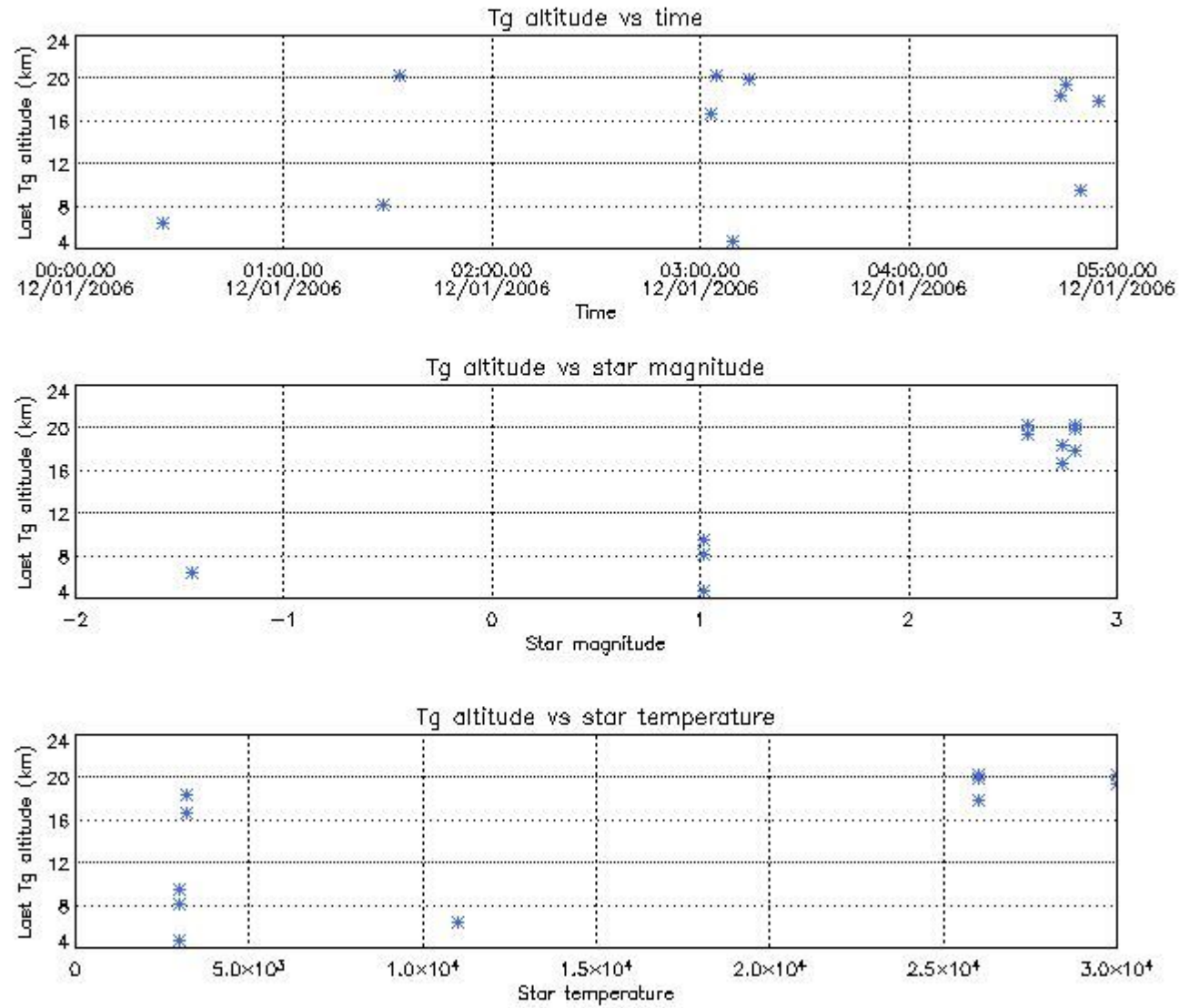
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

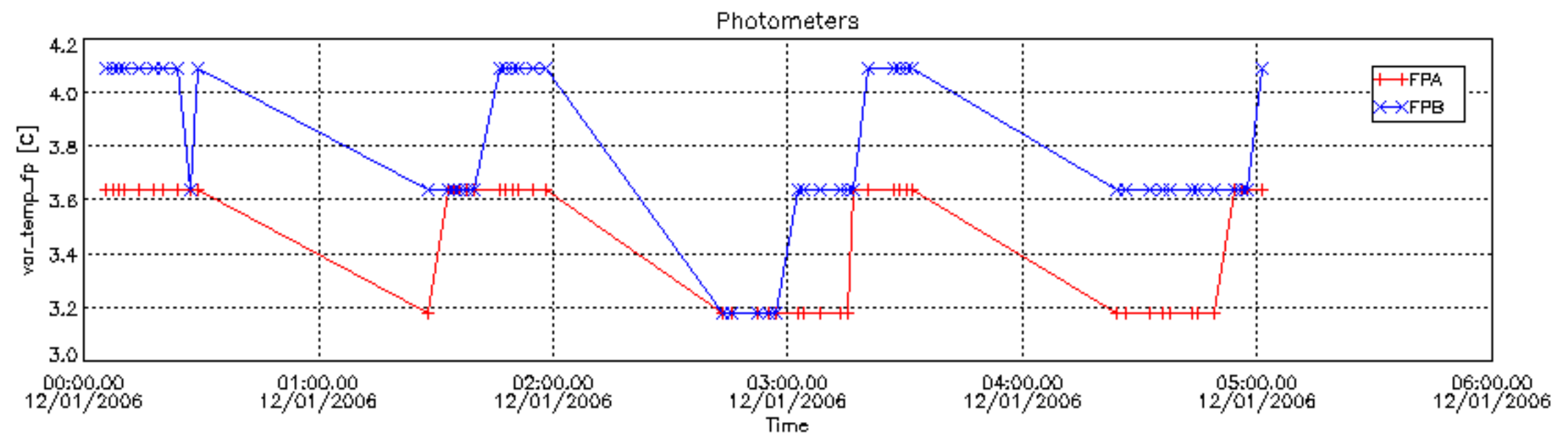
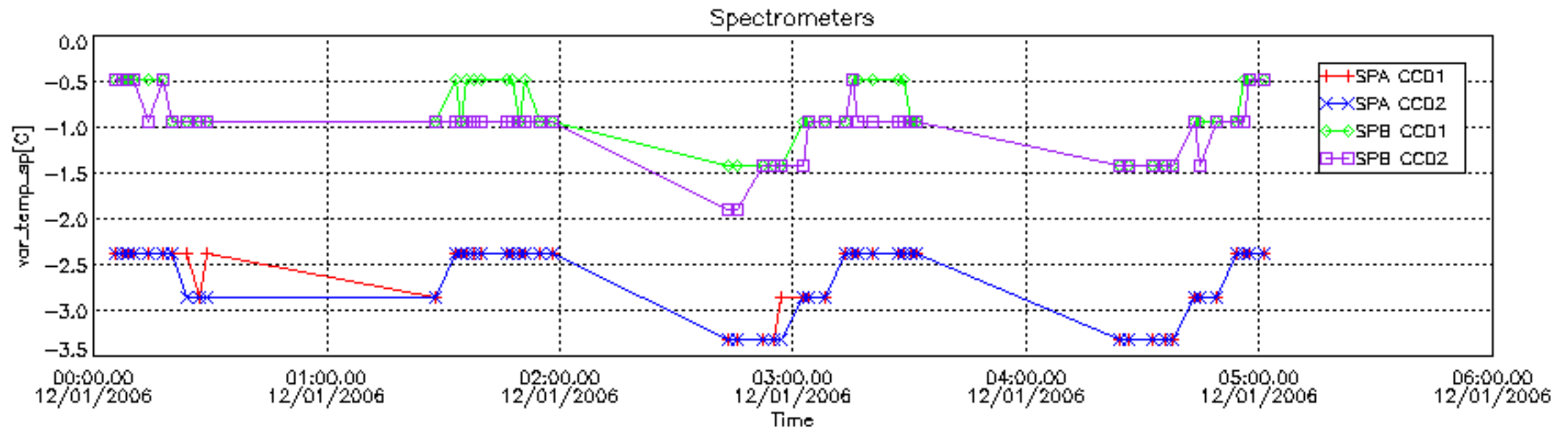
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

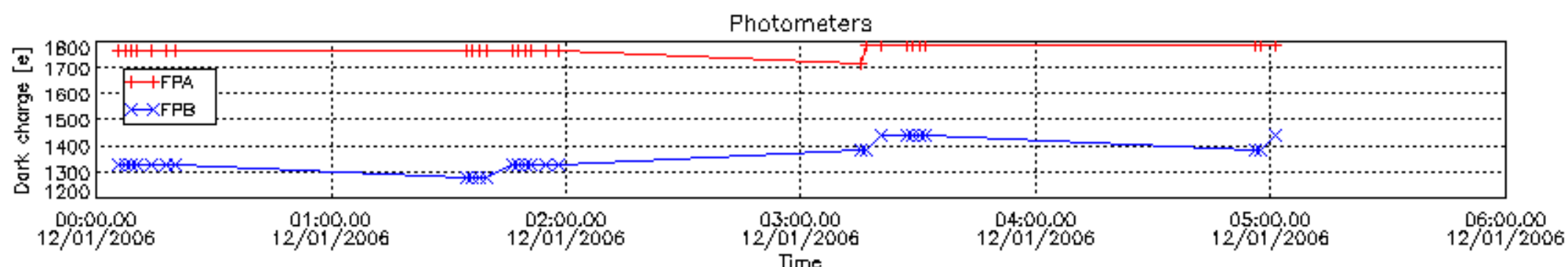
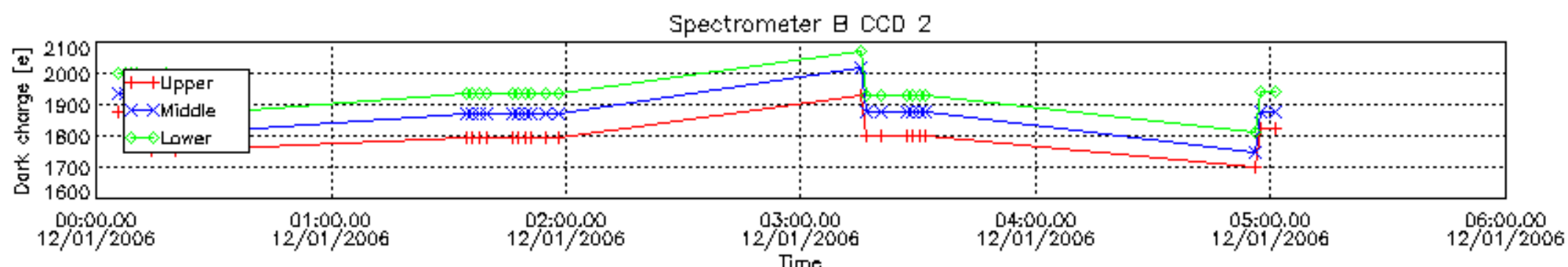
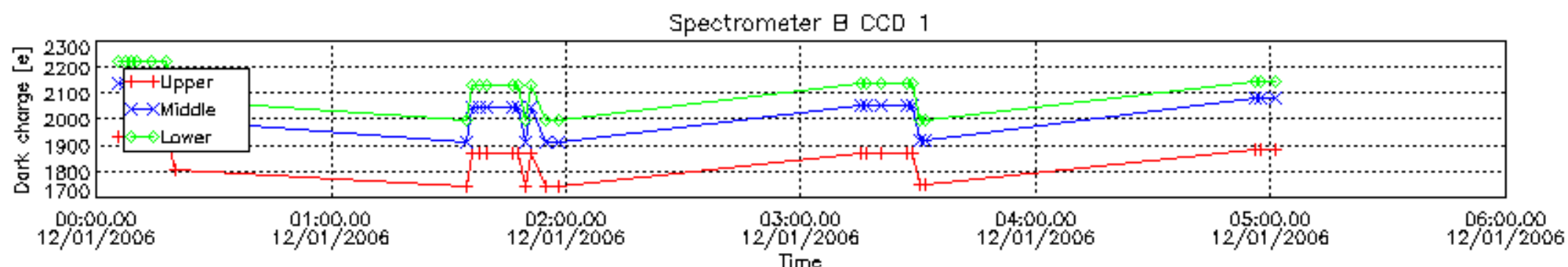
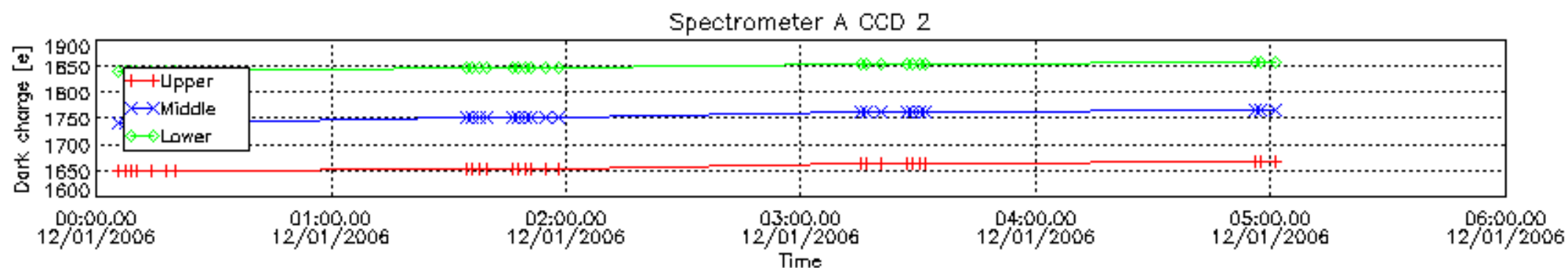
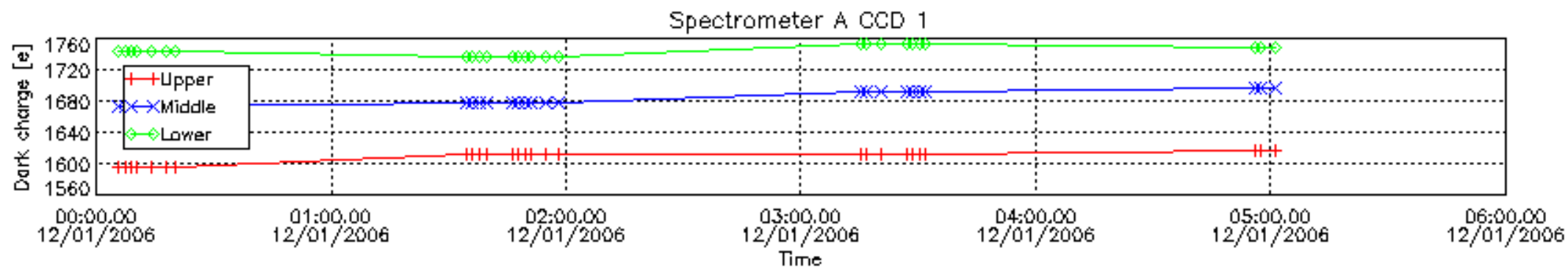
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.1	1445.9	1459.5	1447.0
St. deviation:	5.7042	9.3513	7.0184	9.5086
Maximum:	1523.0	1499.0	1493.0	1496.0
Minimum:	1455.0	1425.0	1437.0	1417.0
Number of data:	22750.	22750.	9350.0	9350.0

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

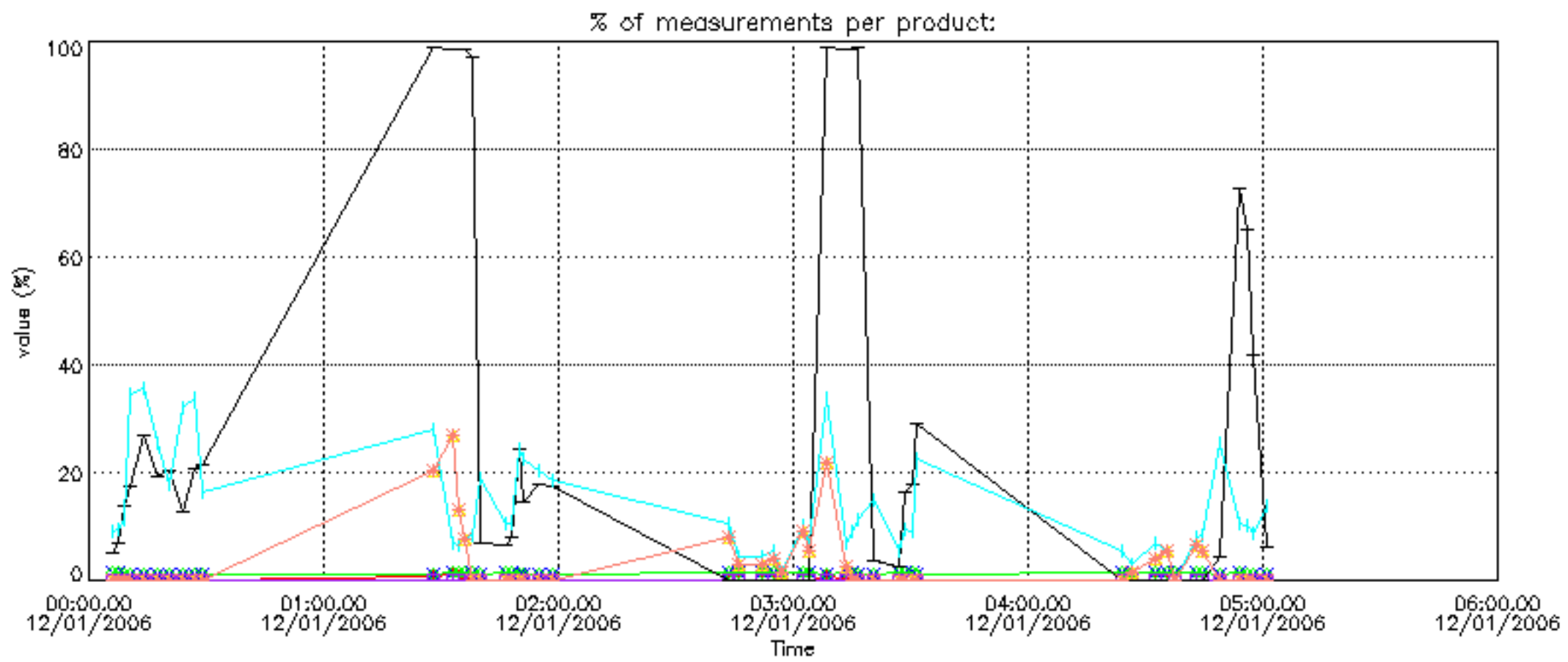
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	12-JAN-2006 00:05:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20051220_153205_20051218_000000_20100101_000000	1	12-JAN-2006 00:05:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060111_114949_20060108_000000_20100101_000000	23	12-JAN-2006 02:43:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	12-JAN-2006 00:05:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JAN-2006 00:05:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	12-JAN-2006 00:05:50
ECMWF_FILE	AUX_ECF_AXNECM20060111_060451_20060111_210000_20060112_090000	1	12-JAN-2006 00:05:50
ECMWF_FILE	AUX_ECF_AXNECM20060111_192217_20060112_030000_20060112_150000	39	12-JAN-2006 04:23:55
OPTIONAL_ECMWF_FILE	NOT USED	1	12-JAN-2006 00:05:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060109_085530_20060105_184402_20060115_201014	1	12-JAN-2006 00:05:50

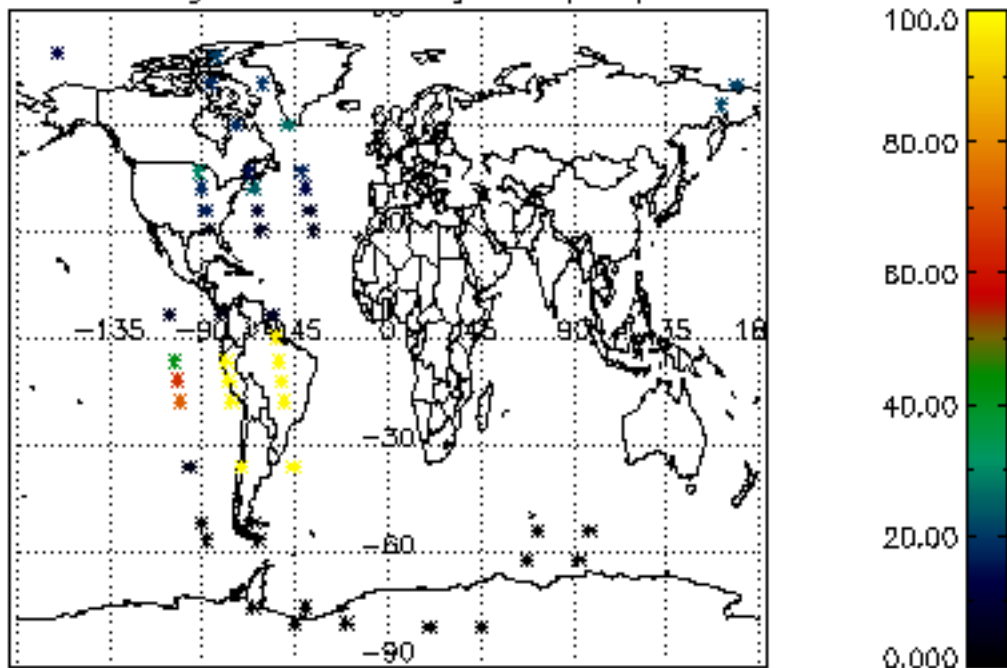




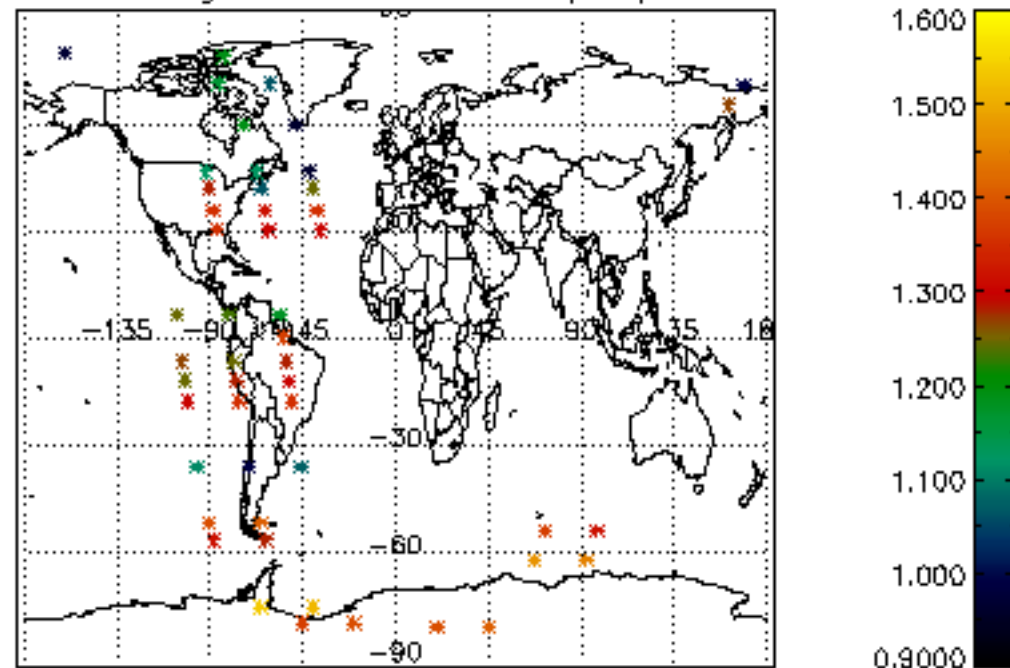




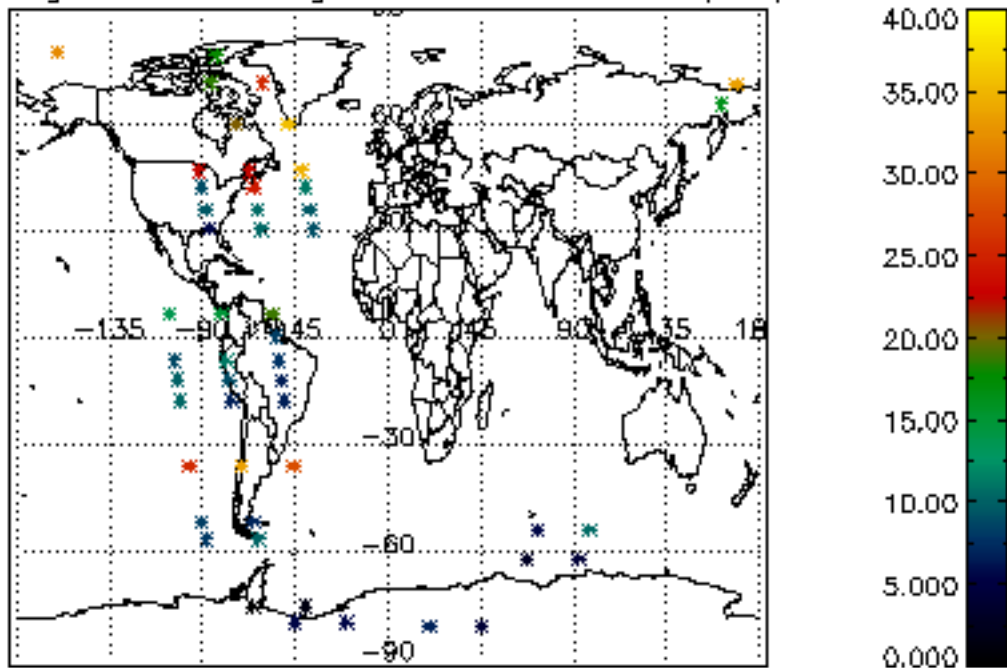
Percentage of cosmic ray hits per profile



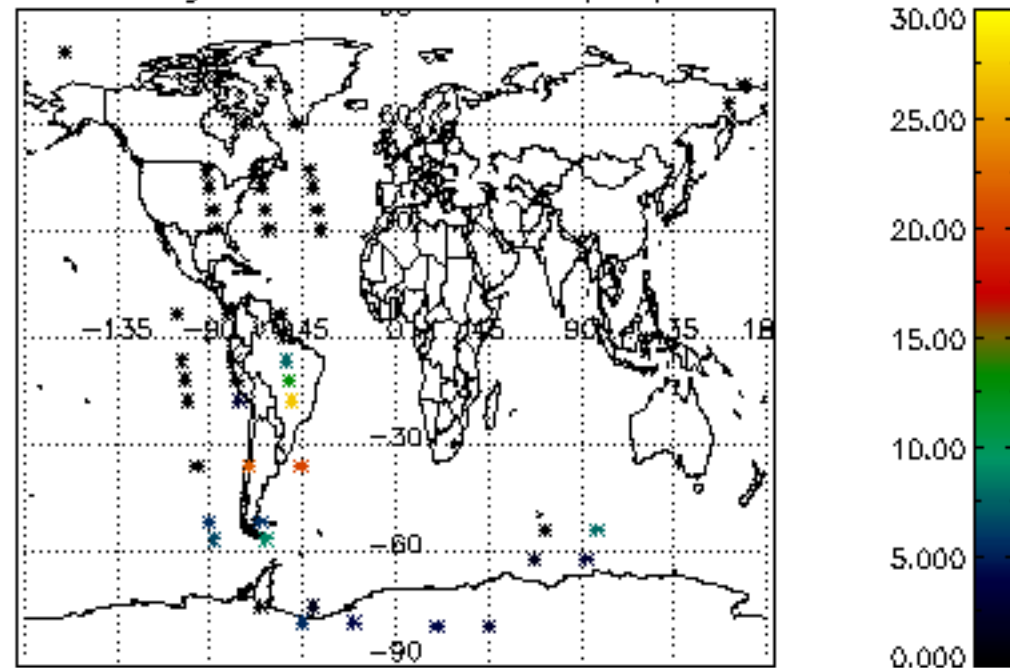
Percentage of datation errors per profile



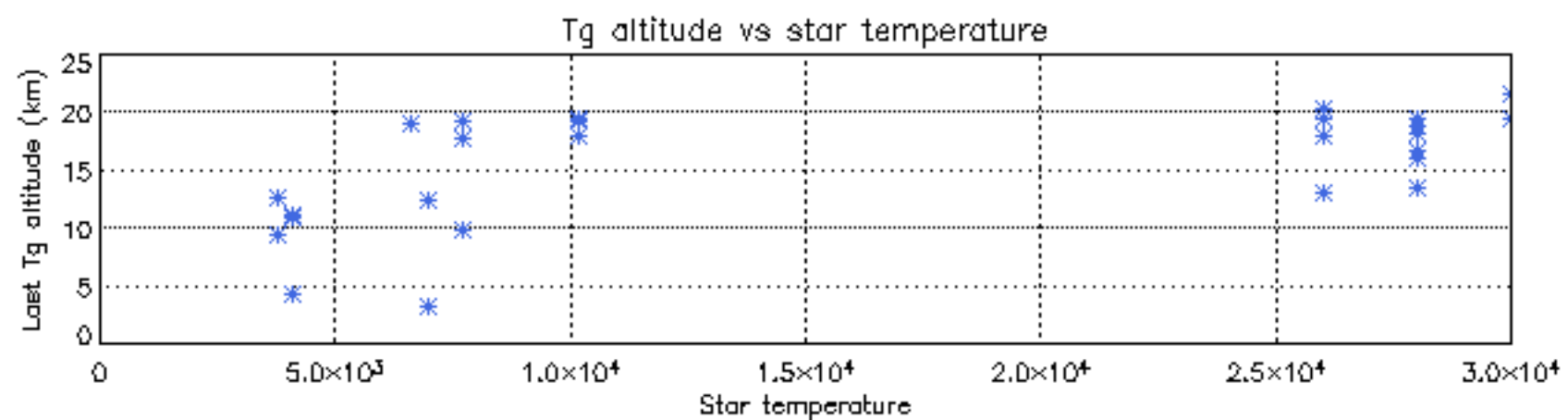
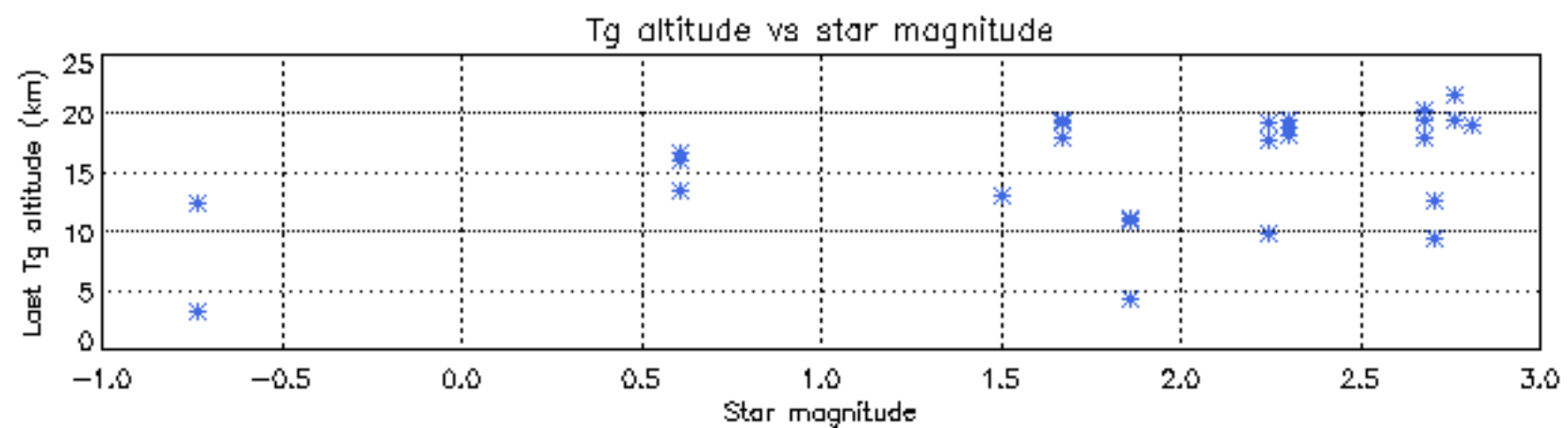
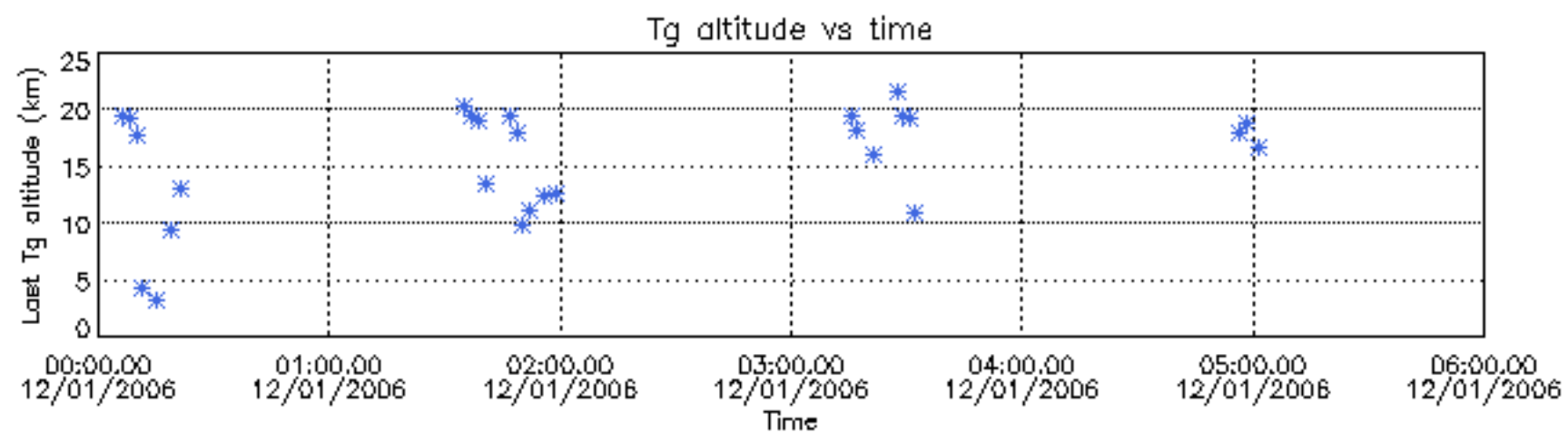
Percentage of star falling outside central band per profile



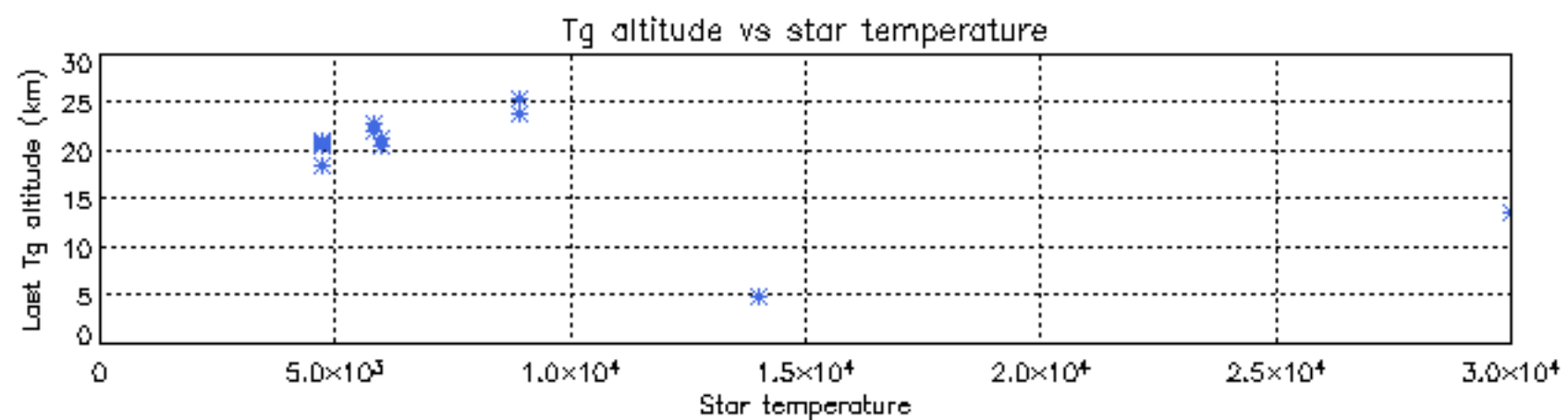
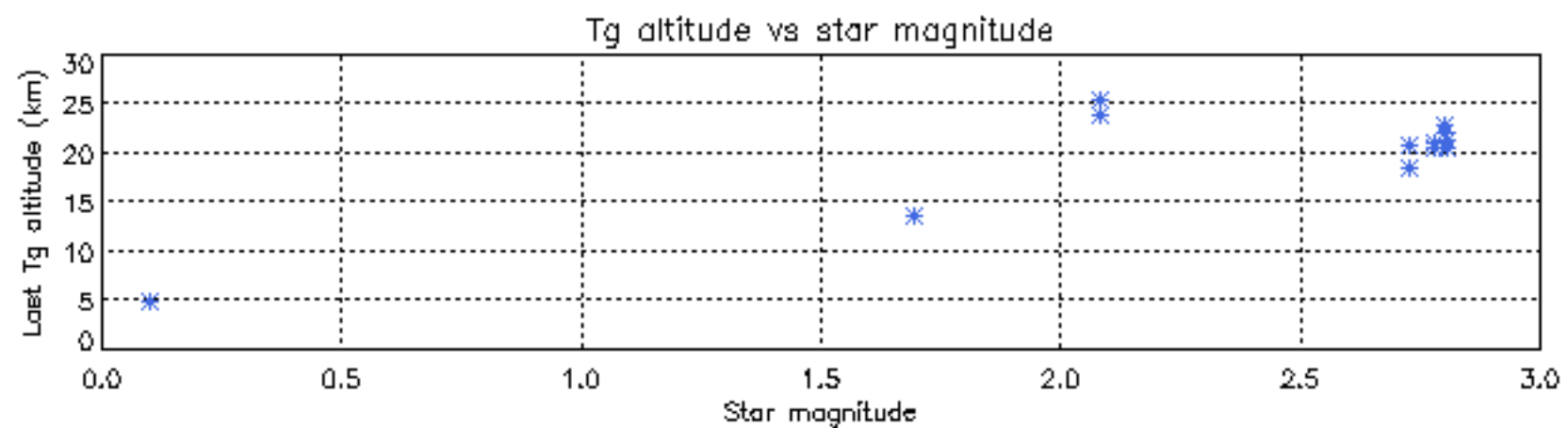
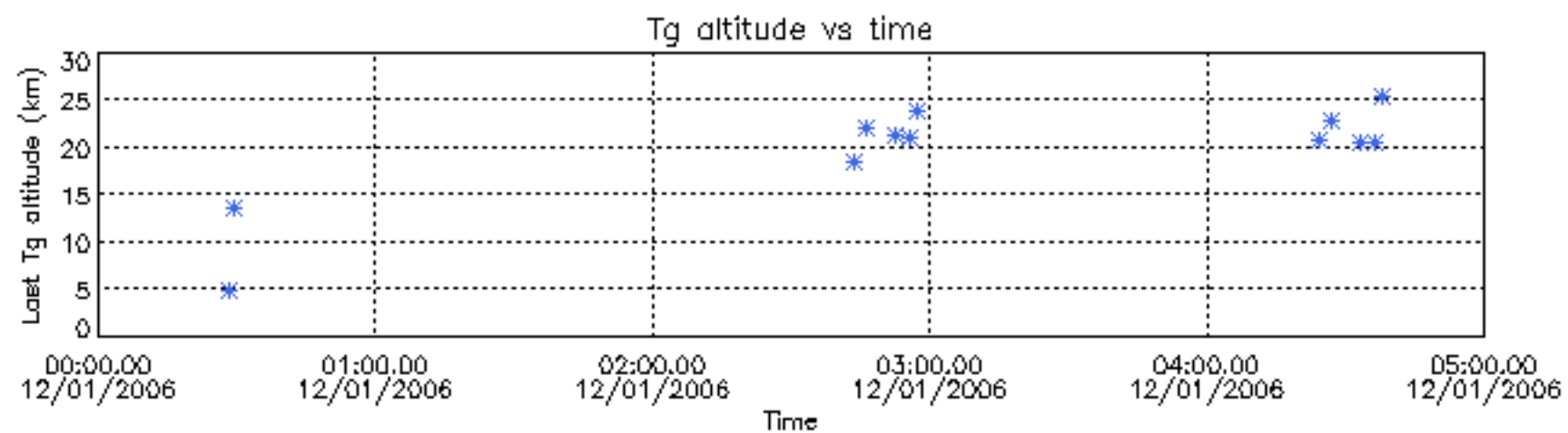
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

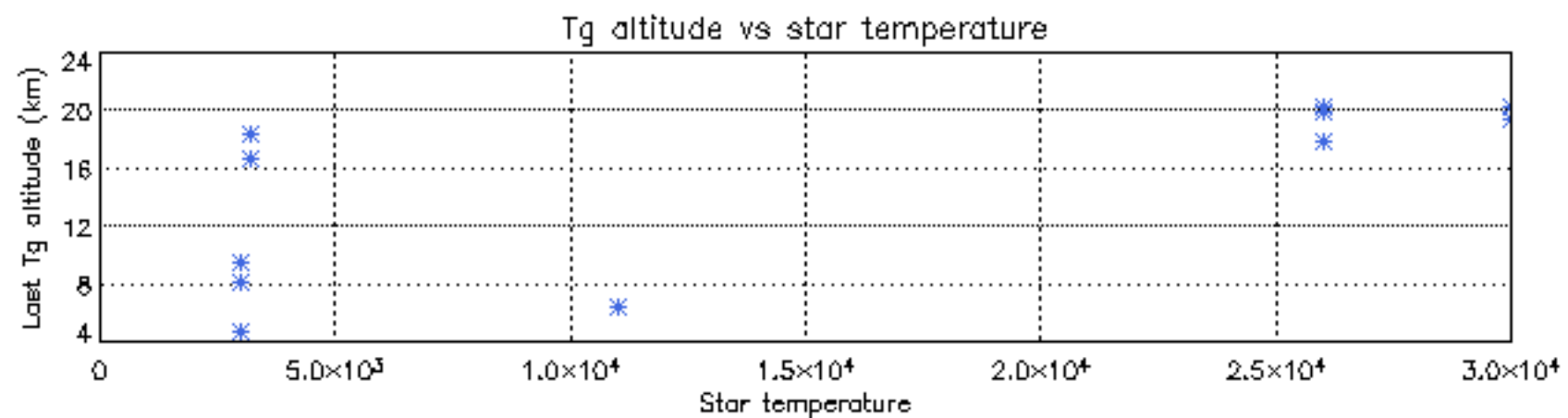
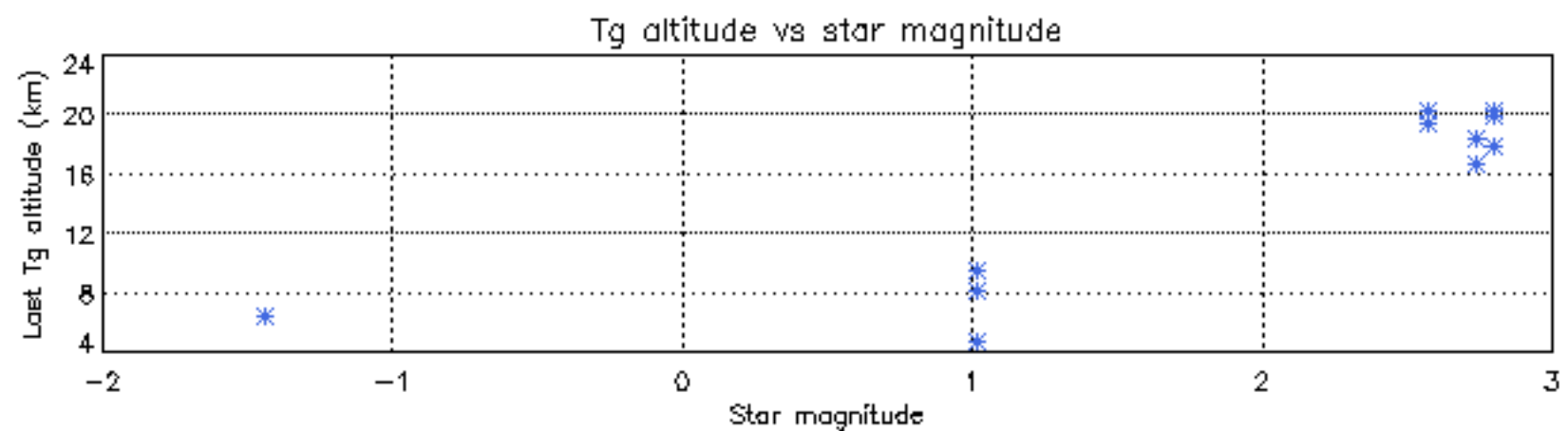
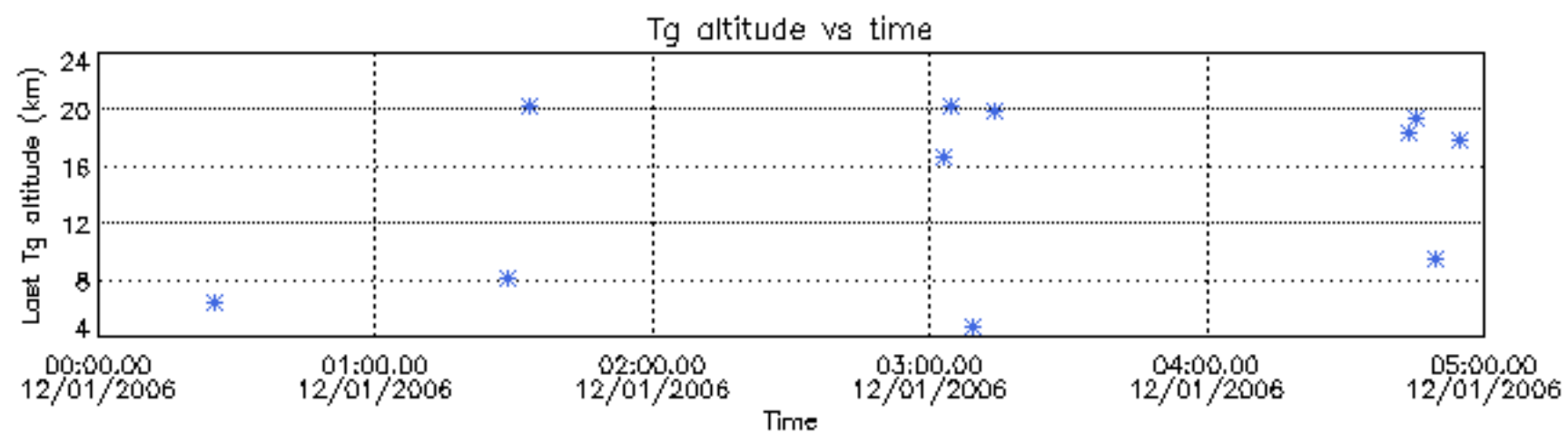


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20060101\_003722\_000054102043\_00474\_20067\_1280.N1

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 3; 5843.7; 01-JAN-2006 00:40:09; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;20067  
 4; 5932.7; 01-JAN-2006 00:41:38; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;20067  
 5; 6035.1; 01-JAN-2006 00:43:20; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;20067  
 6; 6265.7; 01-JAN-2006 00:47:11; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;20067  
 7; 6435.8; 01-JAN-2006 00:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20067  
 8; 6583.6; 01-JAN-2006 00:52:29; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20067  
 9; 6666.8; 01-JAN-2006 00:53:52; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20067  
 10; 6762.0; 01-JAN-2006 00:55:27; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;20067  
 11; 7015.0; 01-JAN-2006 00:59:40; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;20067  
 12; 7357.0; 01-JAN-2006 01:05:22; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;20067  
 13; 7634.1; 01-JAN-2006 01:09:59; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;20067  
 14; 7805.8; 01-JAN-2006 01:12:51; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;20067  
 15; 7917.5; 01-JAN-2006 01:14:43; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;20067  
 16; 8049.7; 01-JAN-2006 01:16:55; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;20067  
 17; 8237.2; 01-JAN-2006 01:20:02; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;20067  
 18; 8433.3; 01-JAN-2006 01:23:19; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;20067  
 19; 8508.4; 01-JAN-2006 01:24:34; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;20067  
 20; 8648.8; 01-JAN-2006 01:26:54; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;20067  
 21; 8728.7; 01-JAN-2006 01:28:14; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;20067  
 22; 8836.5; 01-JAN-2006 01:30:02; Bright; 37.5; 35; 33Alp Per ; 1.79; 6250;occ; 75; 0;20067  
 23; 8913.7; 01-JAN-2006 01:31:19; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;20067  
 24; 9459.3; 01-JAN-2006 01:40:24; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;20067  
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 27; 10458.0; 01-JAN-2006 01:57:03; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;20067  
 28; 10634.4; 01-JAN-2006 02:00:00; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;20067  
 29; 10926.7; 01-JAN-2006 02:04:52; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;20067  
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 9; 12703.4; 01-JAN-2006 02:34:29; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20068  
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 6; 2016.3; 03-JAN-2006 20:20:53; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;20108  
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 9; 2474.7; 03-JAN-2006 20:28:31; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;20108  
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13; 990.0; 03-JAN-2006 21:44:22; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;20109
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18; 2016.5; 03-JAN-2006 22:01:29; Dark ; 41.5; 27; 24Gam Ori ; 1.64; 26000;occ; 83; 0;20109
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22; 2623.5; 03-JAN-2006 22:11:36; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;20109
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27;10642.4; 04-JAN-2006 00:25:15; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;20109
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4;	558.9;	14-JAN-2006	12:49:18;	Dark	;	37.5;	125;	44Tot Ori	;	2.77;	30000;occ;	75;	0;	20261
5;	636.6;	14-JAN-2006	12:50:36;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	20261
6;	770.7;	14-JAN-2006	12:52:50;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20261
7;	1007.3;	14-JAN-2006	12:56:47;	Bright;		33.5;	176;	23Zet Tau	;	3.02;	22000;occ;	67;	0;	20261
8;	1136.1;	14-JAN-2006	12:58:56;	Bright;		35.0;	28;	12Bet Tau	;	1.65;	15200;occ;	70;	0;	20261
9;	1230.1;	14-JAN-2006	13:00:30;	Bright;		37.5;	114;	3Tot Aur	;	2.69;	4600;occ;	75;	0;	20261
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11;	2158.1;	14-JAN-2006	13:15:58;	Bright;		34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	20261
12;	2808.5;	14-JAN-2006	13:26:48;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	20261
13;	3184.8;	14-JAN-2006	13:33:04;	Bright;		36.5;	133;	40Zet Her	;	2.81;	6000;occ;	73;	0;	20261
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15;	3825.6;	14-JAN-2006	13:43:45;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	20261
16;	3908.4;	14-JAN-2006	13:45:08;	Bright;		53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20261
17;	4175.7;	14-JAN-2006	13:49:35;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20261
18;	4278.7;	14-JAN-2006	13:51:18;	Dark	;	40.5;	75;	26Eps Sco	;	2.29;	4250;occ;	81;	0;	20261
19;	4488.9;	14-JAN-2006	13:54:48;	Dark	;	38.0;	131;	Gam Lup	;	2.80;	26000;occ;	76;	0;	20261
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24;	5044.4;	14-JAN-2006	14:04:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20261
25;	5298.3;	14-JAN-2006	14:08:18;	Dark	;	38.0;	124;	The Car	;	2.76;	30000;occ;	76;	0;	20261
26;	5382.4;	14-JAN-2006	14:09:42;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	20261
27;	5496.2;	14-JAN-2006	14:11:36;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20261
28;	5572.1;	14-JAN-2006	14:12:52;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	20261
29;	5790.8;	14-JAN-2006	14:16:30;	Dark	;	49.0;	2;	Alp Car	;	-0.74;	7000;occ;	98;	0;	20261
30;	6002.4;	14-JAN-2006	14:20:02;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;occ;	83;	0;	20261
31;	6156.5;	14-JAN-2006	14:22:36;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	20261
32;	6242.0;	14-JAN-2006	14:24:02;	Dark	;	13.5;	179;	240mi2CMA	;	3.03;	24000;occ;	27;	0;	20261

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4;	645.1;	14-JAN-2006	14:28:45;	Dark	;	40.5;	56;	53Kap Ori	;	2.07;	30000;occ;	81;	0;	20262
5;	715.1;	14-JAN-2006	14:29:55;	Dark	;	38.0;	125;	44Tot Ori	;	2.77;	30000;occ;	76;	0;	20262
6;	792.8;	14-JAN-2006	14:31:12;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	20262
7;	926.7;	14-JAN-2006	14:33:26;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20262
8;	1163.3;	14-JAN-2006	14:37:23;	Bright;		35.5;	176;	23Zet Tau	;	3.02;	22000;occ;	71;	0;	20262
9;	1292.2;	14-JAN-2006	14:39:32;	Bright;		37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	20262
10;	1386.2;	14-JAN-2006	14:41:06;	Bright;		36.5;	114;	3Tot Aur	;	2.69;	4600;occ;	73;	0;	20262
11;	1561.6;	14-JAN-2006	14:44:01;	Bright;		35.0;	42;	34Bet Aur	;	1.90;	10200;occ;	70;	0;	20262
12;	2314.1;	14-JAN-2006	14:56:34;	Bright;		33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	20262
13;	2964.6;	14-JAN-2006	15:07:24;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	20262
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17;	4064.8;	14-JAN-2006	15:25:44;	Bright;		53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20262
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21;	4749.1;	14-JAN-2006	15:37:09;	Dark	;	37.0;	109;	Bet Lup	;	2.68;	26000;occ;	74;	0;	20262
22;	4839.6;	14-JAN-2006	15:38:39;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;occ;	80;	0;	20262
23;	4940.0;	14-JAN-2006	15:40:19;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	20262
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26;	5454.7;	14-JAN-2006	15:48:54;	Dark	;	37.5;	124;	The Car	;	2.76;	30000;occ;	75;	0;	20262
27;	5538.7;	14-JAN-2006	15:50:18;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	20262
28;	5652.5;	14-JAN-2006	15:52:12;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20262
29;	5728.4;	14-JAN-2006	15:53:28;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	20262
30;	5946.9;	14-JAN-2006	15:57:06;	Dark	;	44.0;	2;	Alp Car	;	-0.74;	7000;occ;	88;	0;	20262
31;	6158.7;	14-JAN-2006	16:00:38;	Dark	;	40.5;	117;	Pi Pup	;	2.71;	3800;occ;	81;	0;	20262

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23; 4876.3; 14-JAN-2006 17:19:16; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;20263
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17; 1832.5; 16-JAN-2006 21:49:46; Dark ; 39.0; 125; 44Iot Ori ; 2.77; 30000;occ; 78; 0;20295
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21; 191.7; 31-JAN-2006 13:28:12; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;20505
22; 342.1; 31-JAN-2006 13:30:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20505
23; 467.3; 31-JAN-2006 13:32:48; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;20505
24; 681.1; 31-JAN-2006 13:36:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;20505
25; 822.1; 31-JAN-2006 13:38:42; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;20505
26; 927.1; 31-JAN-2006 13:40:27; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;20505
27; 1078.9; 31-JAN-2006 13:42:59; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;20505
28; 1204.2; 31-JAN-2006 13:45:04; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;20505
29; 1287.1; 31-JAN-2006 13:46:27; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;20505
30; 1433.3; 31-JAN-2006 13:48:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;20505
31; 1516.1; 31-JAN-2006 13:50:16; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;20505

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