GOMOS Daily Report 24-MAY-2006

Level 0 and Level 1 products

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Level 2 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	26MAY2006 04:35:31
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (24MAY2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25MAY2006 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)

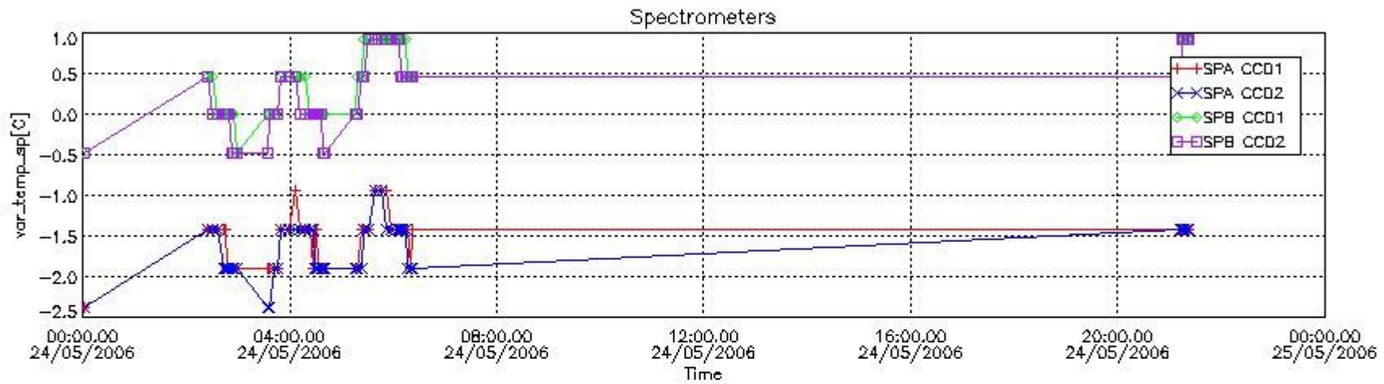
2.1 Level 0 products arrived in PCF (see template here)

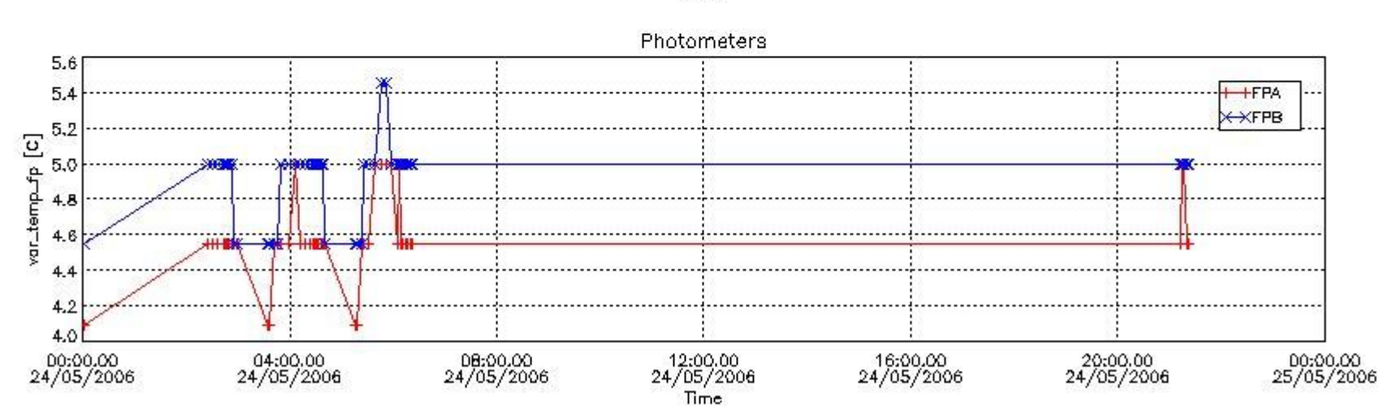
2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20060524_000126_000000372048_00016_22114_0014.N1	24-MAY-2006 00:01:26	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	22114	No
2	GOM_TRA_1PNPDE20060524_022532_000000542048_00017_22115_0000.N1	24-MAY-2006 02:25:32	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	22115	No
3	GOM_TRA_1PNPDE20060524_023111_000000452048_00018_22116_0001.N1	24-MAY-2006 02:31:11	Dark	44.500	31	Alp Gru	1.7340	15200.	89	22116	No
4	GOM_TRA_1PNPDE20060524_023633_000000422048_00018_22116_0002.N1	24-MAY-2006 02:36:33	Dark	42.000	45	Alp Pav	1.9400	26000.	84	22116	No
5	GOM_TRA_1PNPDE20060524_024318_000000412048_00018_22116_0003.N1	24-MAY-2006 02:43:18	Twilight	40.500	141	Bet Ara	2.8400	4600.0	81	22116	No
6	GOM_TRA_1PNPDE20060524_024605_000000512048_00018_22116_0004.N1	24-MAY-2006 02:46:05	Bright	50.500	40	The Sco	1.8590	7100.0	101	22116	No
7	GOM_TRA_1PNPDE20060524_024756_000000532048_00018_22116_0005.N1	24-MAY-2006 02:47:56	Bright	52.500	25	35Lam Sco	1.6200	28000.	105	22116	No
8	GOM_TRA_1PNPDE20060524_024957_000000472048_00018_22116_0006.N1	24-MAY-2006 02:49:57	Bright	47.000	75	26Eps Sco	2.2910	4250.0	94	22116	No
9	GOM_TRA_1PNPDE20060524_025248_000000602048_00018_22116_0007.N1	24-MAY-2006 02:52:48	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	22116	No
10	GOM_TRA_1PNPDE20060524_025511_000000412048_00018_22116_0008.N1	24-MAY-2006 02:55:11	Bright	40.500	97	8Bet1Sco	2.5610	30000.	81	22116	No
11	GOM_TRA_1PNPDE20060524_025840_000000382048_00018_22116_0009.N1	24-MAY-2006 02:58:40	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	22116	No
12	GOM_TRA_1PNPDE20060524_033522_000000352048_00018_22116_0000.N1	24-MAY-2006 03:35:22	Bright	34.500	76	27Gam Cas	2.3000	30000.	69	22116	No
13	GOM_TRA_1PNPDE20060524_033635_000000352048_00018_22116_0001.N1	24-MAY-2006 03:36:35	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	22116	No
14	GOM_TRA_1PNPDE20060524_034247_000000392048_00018_22116_0002.N1	24-MAY-2006 03:42:47	Twilight	38.500	53	43Bet And	2.0480	3300.0	77	22116	No
15	GOM_TRA_1PNPDE20060524_034520_000000492048_00018_22116_0003.N1	24-MAY-2006 03:45:20	Twilight	48.500	58	21Alp And	2.0730	11000.	97	22116	No
16	GOM_TRA_1PNPDE20060524_034948_000000472048_00018_22116_0004.N1	24-MAY-2006 03:49:48	Twilight	47.000	140	88Gam Peg	2.8340	26000.	94	22116	No
17	GOM_TRA_1PNPDE20060524_035837_000000442048_00018_22116_0005.N1	24-MAY-2006 03:58:37	Dark	44.000	52	16Bet Cet	2.0370	4500.0	88	22116	No
18	GOM_TRA_1PNPDE20060524_040609_000000542048_00018_22116_0006.N1	24-MAY-2006 04:06:09	Dark	54.000	18	24Alp PsA	1.1660	9700.0	108	22116	No
19	GOM_TRA_1PNPDE20060524_041148_000000442048_00019_22117_0007.N1	24-MAY-2006 04:11:48	Dark	44.000	31	Alp Gru	1.7340	15200.	88	22117	No
20	GOM_TRA_1PNPDE20060524_041709_000000412048_00019_22117_0008.N1	24-MAY-2006 04:17:09	Dark	41.000	45	Alp Pav	1.9400	26000.	82	22117	No
21	GOM_TRA_1PNPDE20060524_042355_000000442048_00019_22117_0009.N1	24-MAY-2006 04:23:55	Twilight	44.000	141	Bet Ara	2.8400	4600.0	88	22117	No
22	GOM_TRA_1PNPDE20060524_042641_000000482048_00019_22117_0010.N1	24-MAY-2006 04:26:41	Bright	48.000	40	The Sco	1.8590	7100.0	96	22117	No
23	GOM_TRA_1PNPDE20060524_042832_000000512048_00019_22117_0011.N1	24-MAY-2006 04:28:32	Bright	51.000	25	35Lam Sco	1.6200	28000.	102	22117	No
24	GOM_TRA_1PNPDE20060524_043034_000000482048_00019_22117_0012.N1	24-MAY-2006 04:30:34	Bright	48.000	75	26Eps Sco	2.2910	4250.0	96	22117	No
25	GOM_TRA_1PNPDE20060524_043324_000000602048_00019_22117_0013.N1	24-MAY-2006 04:33:24	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	22117	No
26	GOM_TRA_1PNPDE20060524_043548_000000412048_00019_22117_0014.N1	24-MAY-2006 04:35:48	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	22117	No
27	GOM_TRA_1PNPDE20060524_043917_000000382048_00019_22117_0015.N1	24-MAY-2006 04:39:17	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	22117	No
28	GOM_TRA_1PNPDE20060524_044101_000000432048_00019_22117_0016.N1	24-MAY-2006 04:41:01	Bright	43.000	120	1Del Oph	2.7340	3200.0	86	22117	No
29	GOM_TRA_1PNPDE20060524_051558_000000362048_00019_22117_0000.N1	24-MAY-2006 05:15:58	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	22117	No
30	GOM_TRA_1PNPDE20060524_051711_000000492048_00019_22117_0001.N1	24-MAY-2006 05:17:11	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	22117	No
31	GOM_TRA_1PNPDE20060524_052323_000000392048_00019_22117_0002.N1	24-MAY-2006 05:23:23	Twilight	38.500	53	43Bet And	2.0480	3300.0	77	22117	No
32	GOM_TRA_1PNPDE20060524_052556_000000492048_00019_22117_0003.N1	24-MAY-2006 05:25:56	Twilight	49.000	58	21Alp And	2.0730	11000.	98	22117	No
33	GOM_TRA_1PNPDE20060524_053024_000000432048_00019_22117_0004.N1	24-MAY-2006 05:30:24	Twilight	43.000	140	88Gam Peg	2.8340	26000.	86	22117	No
34	GOM_TRA_1PNPDE20060524_053913_000000472048_00019_22117_0005.N1	24-MAY-2006 05:39:13	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	22117	No
35	GOM_TRA_1PNPDE20060524_054646_000000602048_00019_22117_0006.N1	24-MAY-2006 05:46:46	Dark	59.500	18	24Alp PsA	1.1660	9700.0	119	22117	No
36	GOM_TRA_1PNPDE20060524_055225_000000512048_00020_22118_0007.N1	24-MAY-2006 05:52:25	Dark	50.500	31	Alp Gru	1.7340	15200.	101	22118	No
37	GOM_TRA_1PNPDE20060524_055746_000000422048_00020_22118_0008.N1	24-MAY-2006 05:57:46	Dark	42.000	45	Alp Pav	1.9400	26000.	84	22118	No
38	GOM_TRA_1PNPDE20060524_060431_000000432048_00020_22118_0009.N1	24-MAY-2006 06:04:31	Twilight	42.500	141	Bet Ara	2.8400	4600.0	85	22118	No
39	GOM_TRA_1PNPDE20060524_060718_000000472048_00020_22118_0010.N1	24-MAY-2006 06:07:18	Bright	47.000	40	The Sco	1.8590	7100.0	94	22118	No
40	GOM_TRA_1PNPDE20060524_060909_000000472048_00020_22118_0011.N1	24-MAY-2006 06:09:09	Bright	47.000	25	35Lam Sco	1.6200	28000.	94	22118	No
41	GOM_TRA_1PNPDE20060524_061110_000000472048_00020_22118_0012.N1	24-MAY-2006 06:11:10	Bright	47.000	75	26Eps Sco	2.2910	4250.0	94	22118	No
42	GOM_TRA_1PNPDE20060524_061401_000000502048_00020_22118_0013.N1	24-MAY-2006 06:14:01	Bright	49.500	16	21Alp Sco	1.0200	3000.0	99	22118	No

43	GOM_TRA_1PNPDE20060524_061624_000000412048_00020_22118_0014.N1	24-MAY-2006 06:16:24	Bright	40.500	97	8Bet1Sco	2.5610	30000.	81	22118	No
44	GOM_TRA_1PNPDE20060524_061953_000000372048_00020_22118_0015.N1	24-MAY-2006 06:19:53	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	22118	No
45	GOM_TRA_1PNPDE20060524_062137_000000432048_00020_22118_0016.N1	24-MAY-2006 06:21:37	Bright	43.000	120	1Del Oph	2.7340	3200.0	86	22118	No
46	GOM_TRA_1PNPDE20060524_211246_000000452048_00029_22127_0000.N1	24-MAY-2006 21:12:46	Bright	45.000	40	The Sco	1.8590	7100.0	90	22127	No
47	GOM_TRA_1PNPDE20060524_211437_000000472048_00029_22127_0001.N1	24-MAY-2006 21:14:37	Bright	47.000	25	35Lam Sco	1.6200	28000.	94	22127	No
48	GOM_TRA_1PNPDE20060524_211637_000000462048_00029_22127_0002.N1	24-MAY-2006 21:16:37	Bright	46.000	75	26Eps Sco	2.2910	4250.0	92	22127	No
49	GOM_TRA_1PNPDE20060524_211926_000000602048_00029_22127_0003.N1	24-MAY-2006 21:19:26	Bright	60.000	16	21Alp Sco	1.0200	3000.0	120	22127	No
50	GOM_TRA_1PNPDE20060524_212148_000000412048_00029_22127_0004.N1	24-MAY-2006 21:21:48	Bright	41.000	97	8Bet1Sco	2.5610	30000.	82	22127	No

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





4. Overview of dark signal processing per product

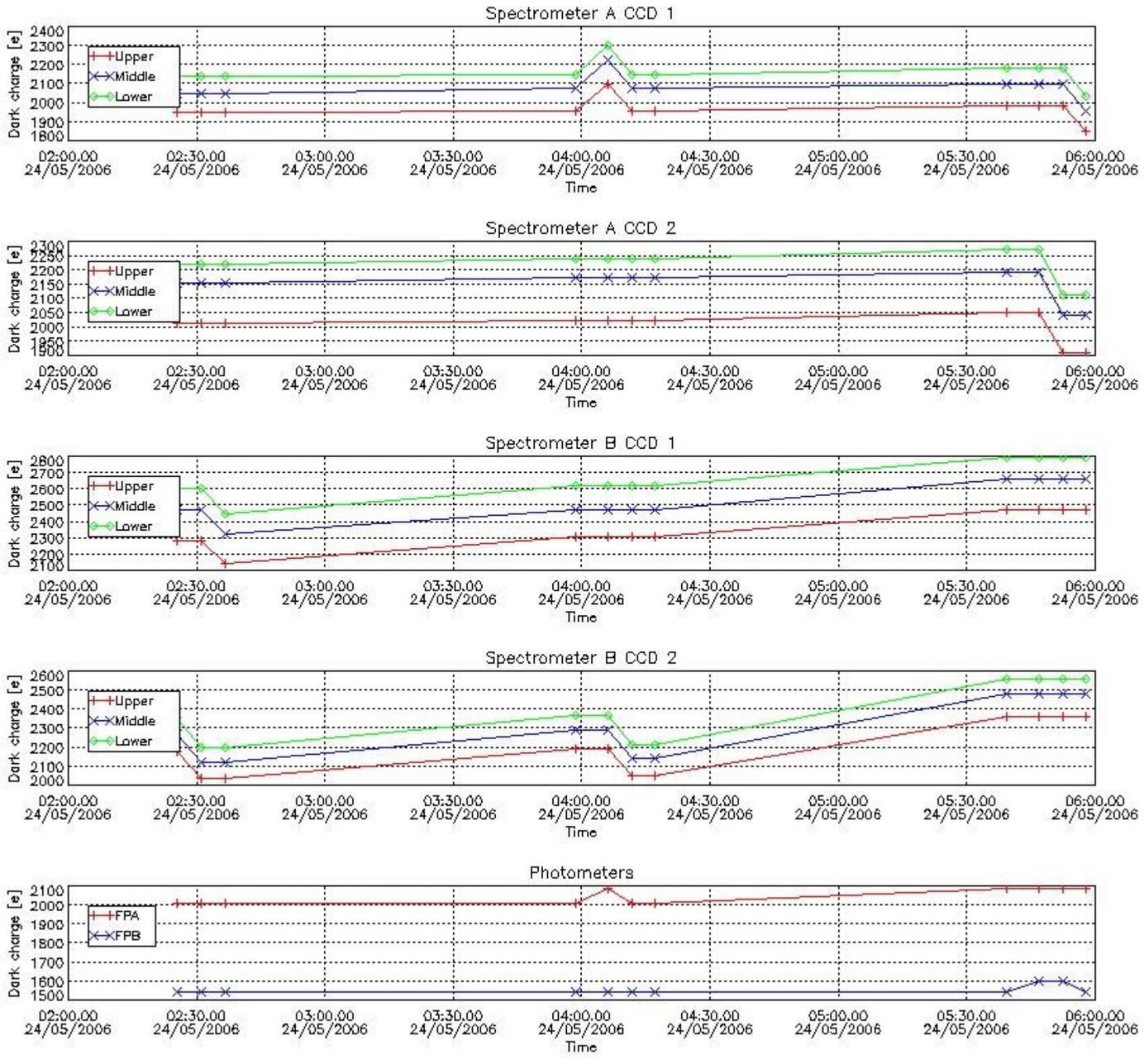
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060524_211246_000000452048_00029_22127_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20060524_211437_000000472048_00029_22127_0001.N1	DC map used (0)

GOM_TRA_1PNPDE20060524_211637_000000462048_00029_22127_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20060524_211926_000000602048_00029_22127_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20060524_212148_000000412048_00029_22127_0004.N1	DC map used (0)

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

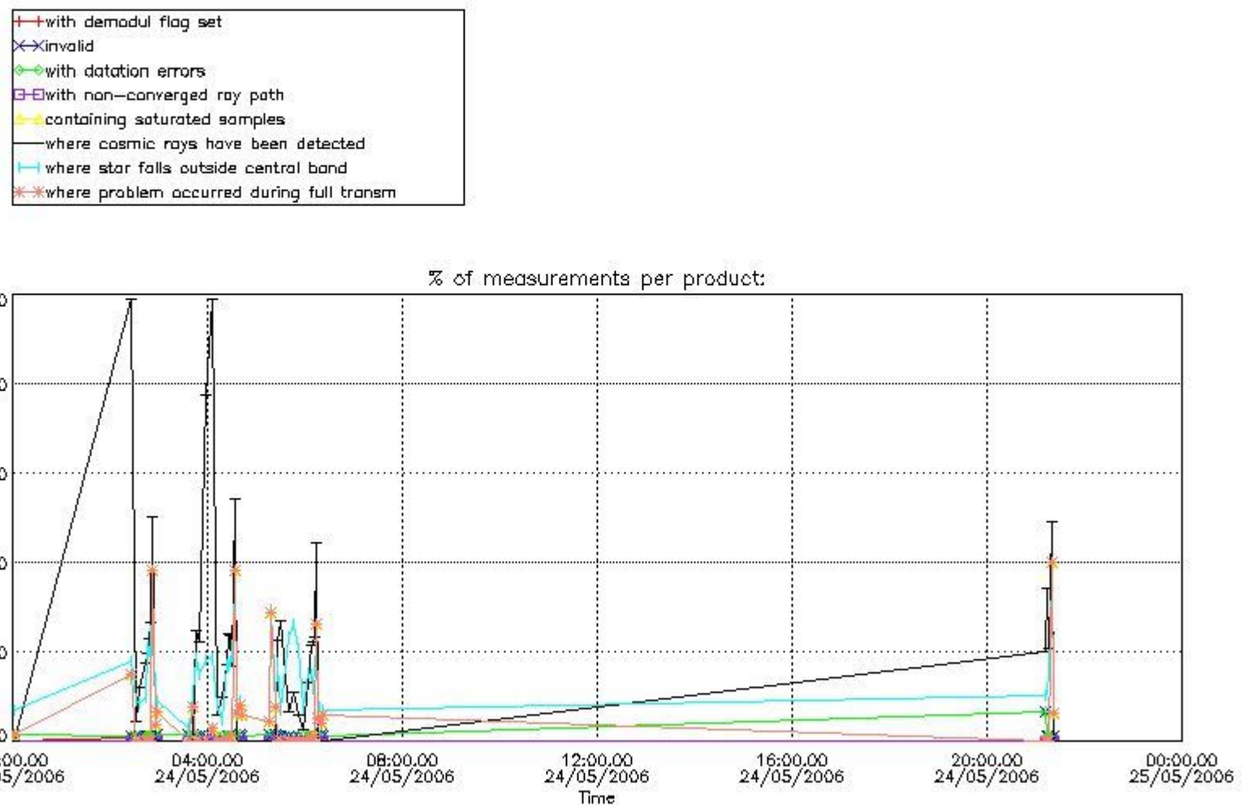
In this section it is presented the modulation information extracted from the pcd (product confidence data)
at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

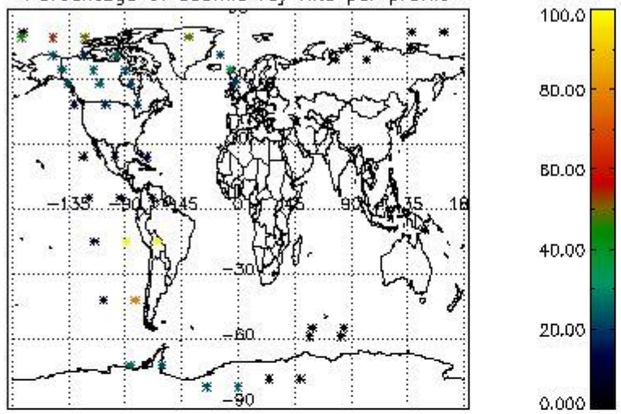
At least one measurement with demodulation flag set:	6.00000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

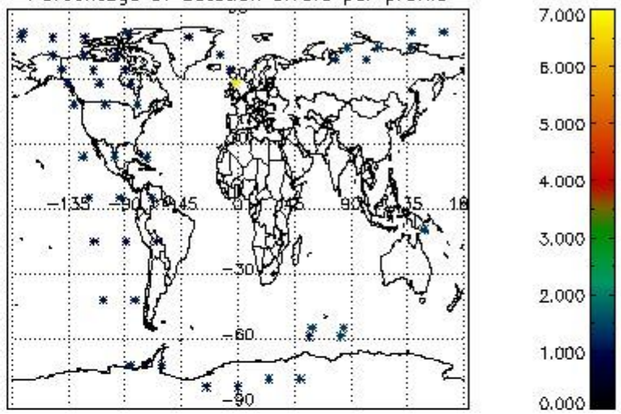


5.3 Plot quality information per product (world map)

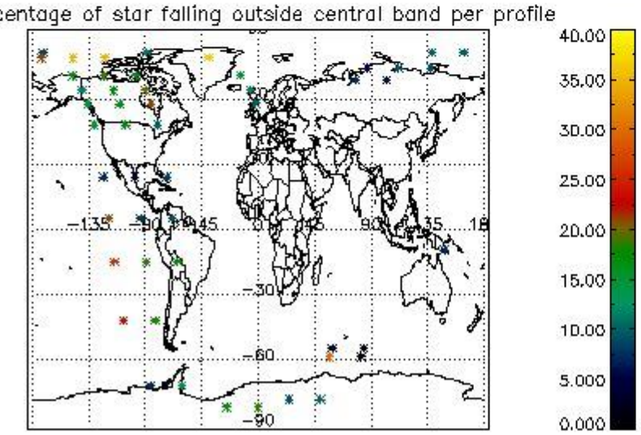
Percentage of cosmic ray hits per profile



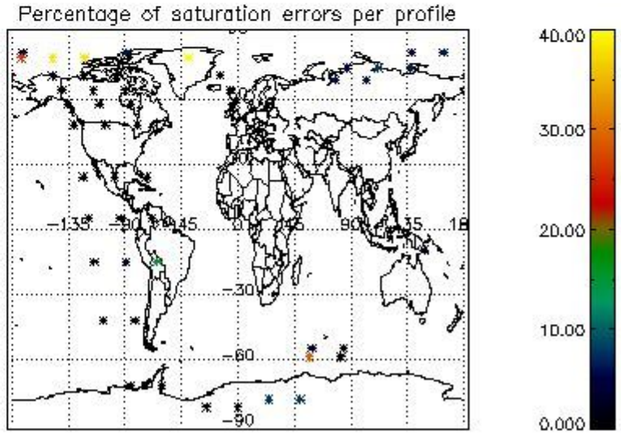
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



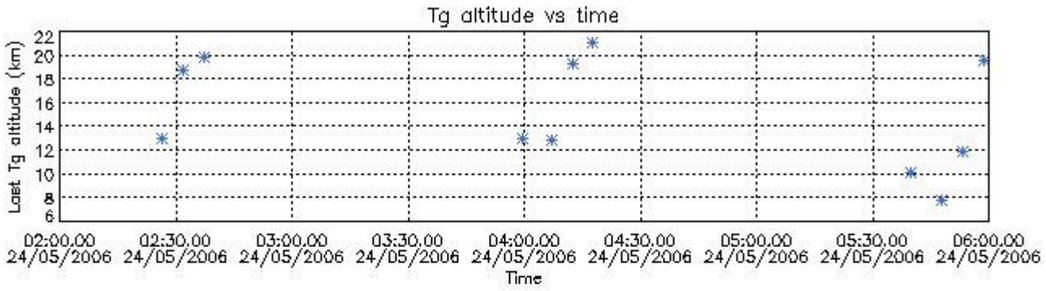
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

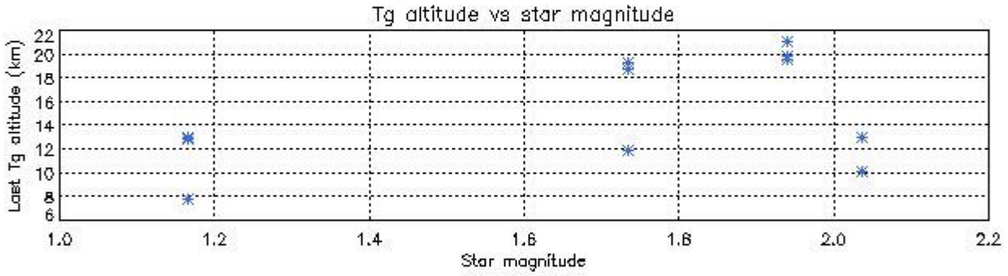
6.1 Statistics on tangent altitude lost:

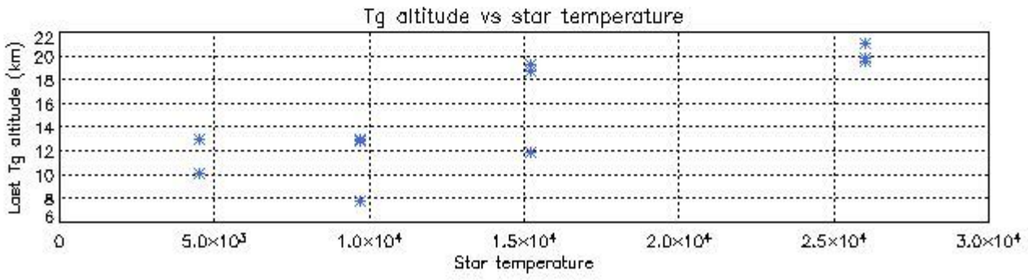
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.180	15.882	15.617
St. deviation:	4.6113	5.8519	2.6715
Maximum:	21.032	26.304	19.055
Minimum:	7.7177	3.6296	12.283
Number of data:	11.000	30.000	9.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

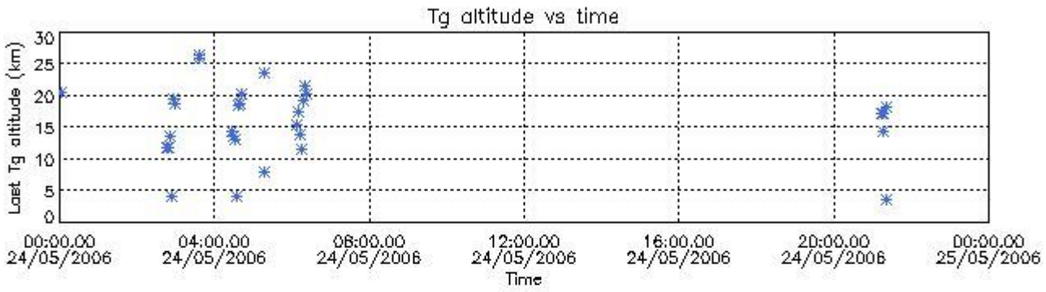


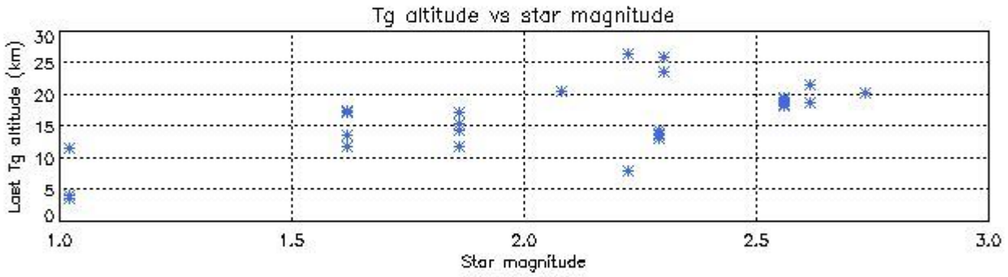


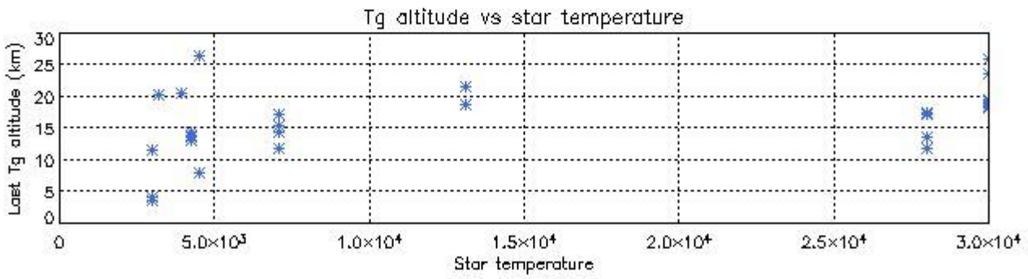


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

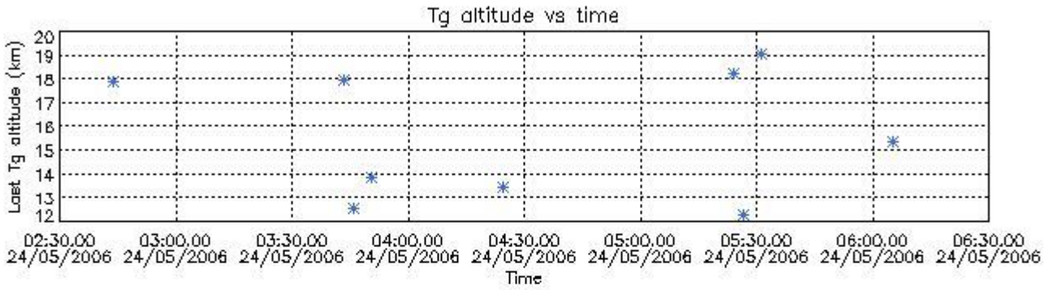


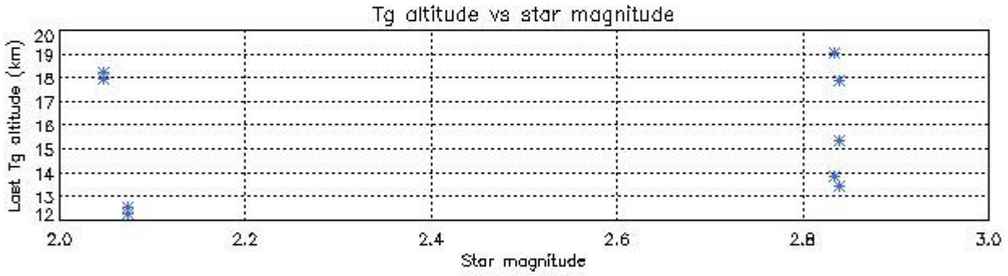


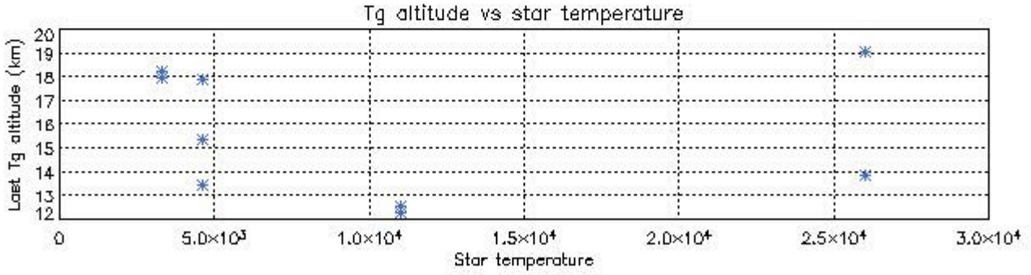


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost





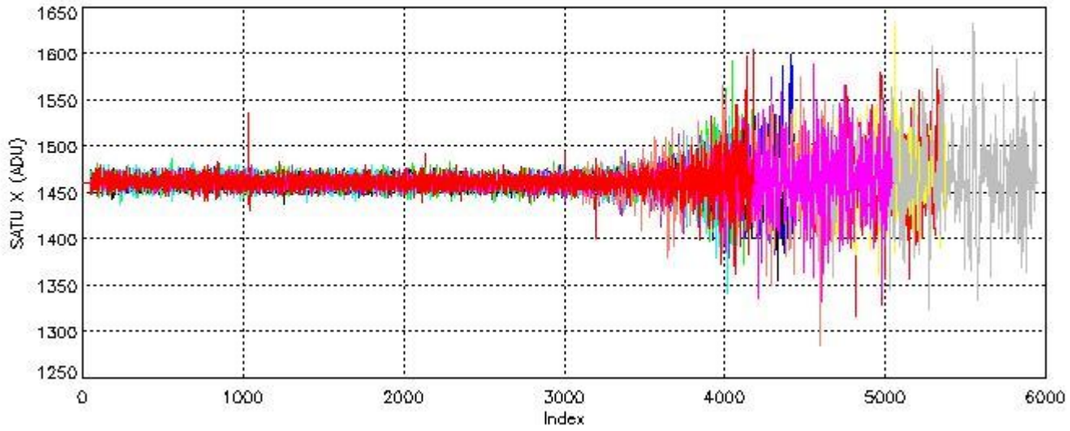


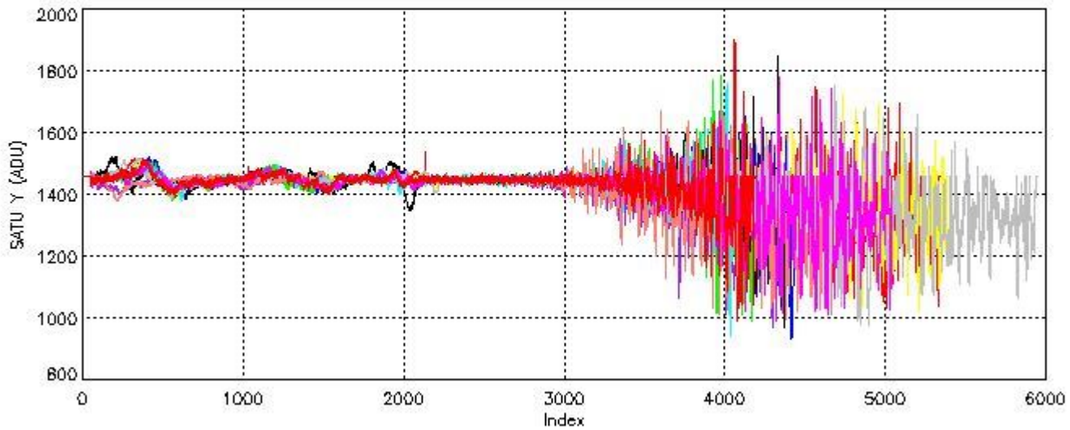
7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frecuency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





7.2 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 (in ADU) 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.

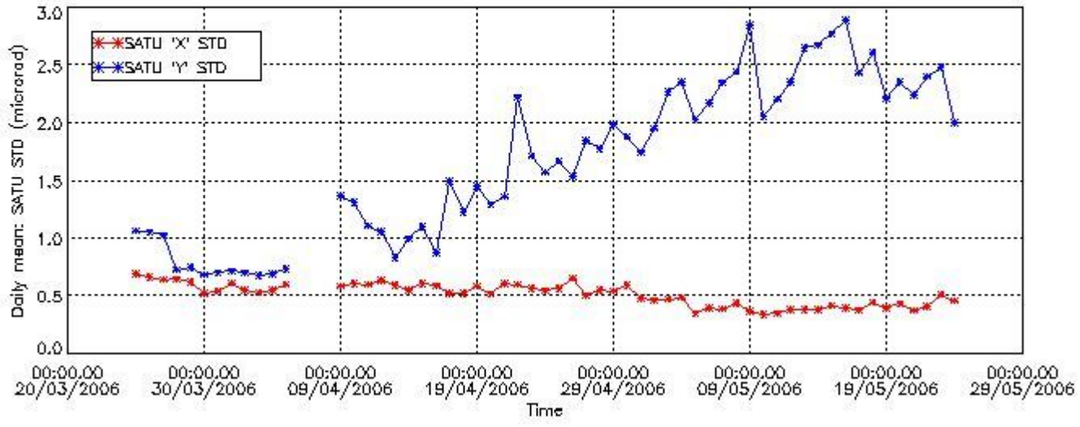
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.2	1447.6	1462.7	1447.2
St. deviation:	4.5673	19.978	5.6137	21.091
Maximum:	1536.0	1521.0	1503.0	1542.0
Minimum:	1441.0	1393.0	1423.0	1368.0

Number of data:	11550.	11550.	28400.	28400.

7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

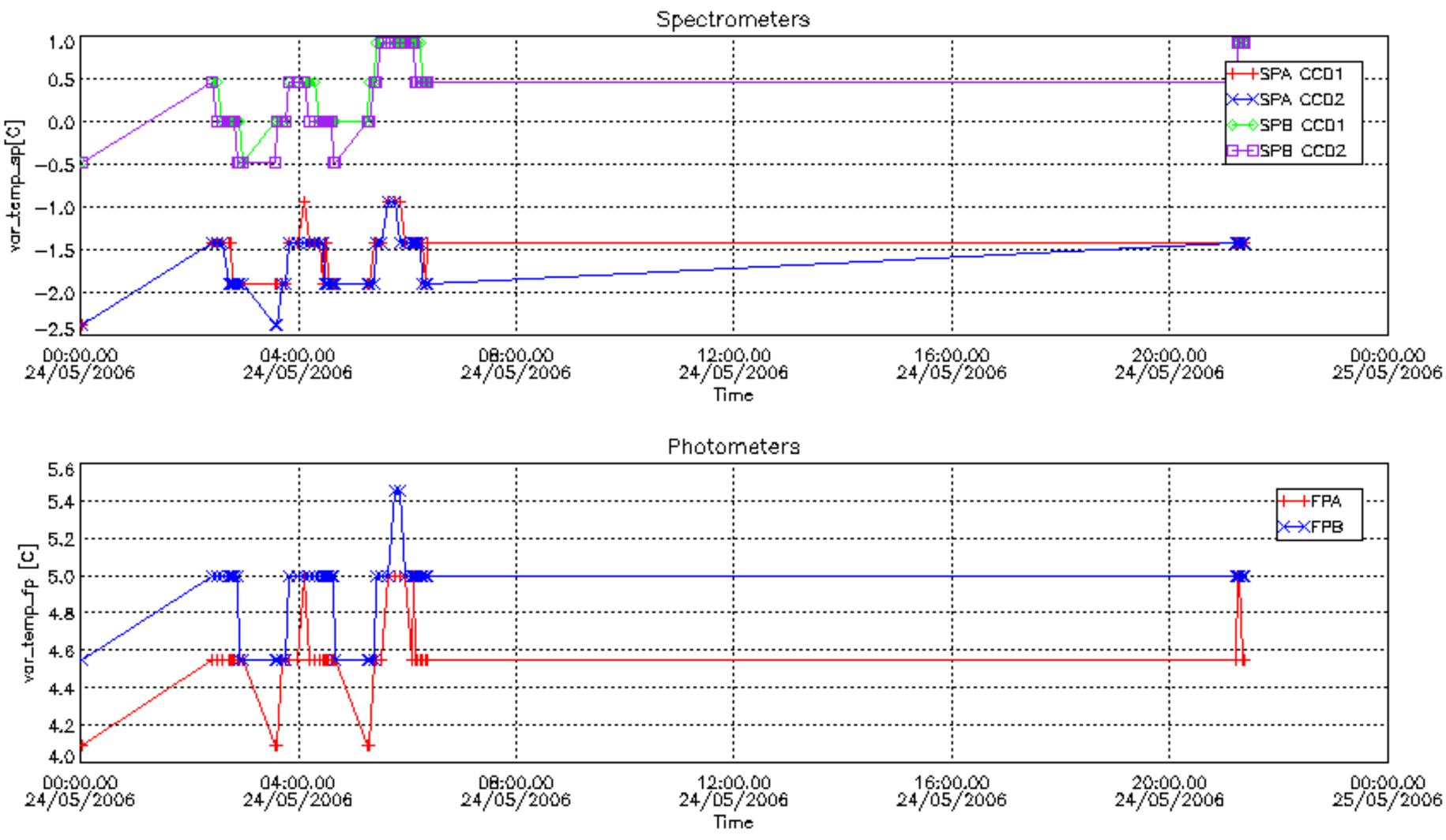
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



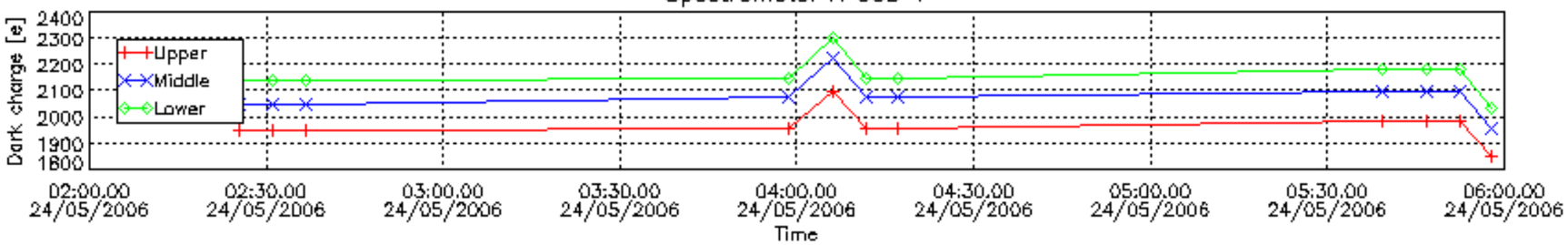
8. Auxiliary Data Files used for the production reported in section 2.2

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.

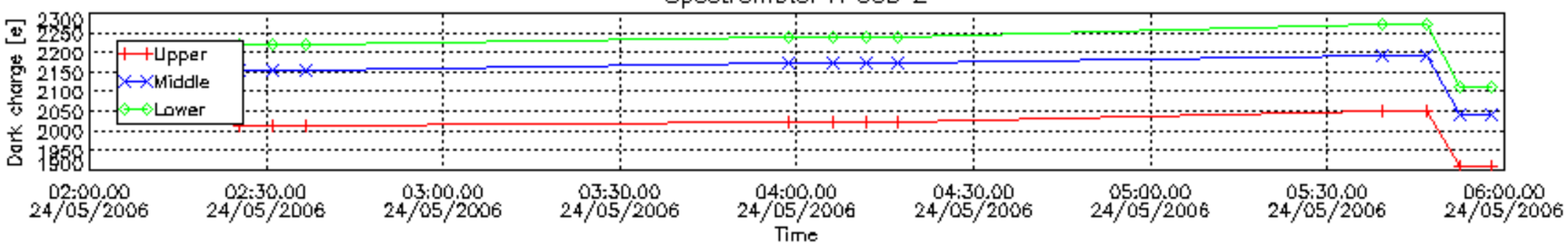
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	24-MAY-2006 00:01:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060518_090623_20060516_000000_20100101_000000	1	24-MAY-2006 00:01:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	24-MAY-2006 00:01:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-MAY-2006 00:01:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	24-MAY-2006 00:01:26
ECMWF_FILE	AUX_ECF_AXNECM20060523_062634_20060523_210000_20060524_090000	1	24-MAY-2006 00:01:26
ECMWF_FILE	AUX_ECF_AXNECM20060523_182611_20060524_030000_20060524_150000	12	24-MAY-2006 03:35:22
ECMWF_FILE	AUX_ECA_AXNECM20060524_064413_20060523_210000_20060524_090000	29	24-MAY-2006 05:15:58
ECMWF_FILE	AUX_ECF_AXNECM20060524_062608_20060524_210000_20060525_090000	46	24-MAY-2006 21:12:46
OPTIONAL_ECMWF_FILE	NOT USED	1	24-MAY-2006 00:01:26
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20060523_211259_000057382048_00014_22112_0560.N1	1	24-MAY-2006 00:01:26
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20060524_003453_000054192048_00016_22114_0562.N1	2	24-MAY-2006 02:25:32
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20060524_021032_000041442048_00017_22115_0563.N1	12	24-MAY-2006 03:35:22
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20060524_032455_000060562048_00018_22116_0564.N1	29	24-MAY-2006 05:15:58
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060523_230556_20060523_194722_20060602_211335	46	24-MAY-2006 21:12:46


Spectrometers
var_temp_sp[C]
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
24/05/2006
04:00.00
24/05/2006
08:00.00
24/05/2006
12:00.00
24/05/2006
16:00.00
24/05/2006
20:00.00
24/05/2006
00:00.00
25/05/2006
Time
Photometers
var_temp_fp [C]
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
FPA
FPB
00:00.00
24/05/2006
04:00.00
24/05/2006
08:00.00
24/05/2006
12:00.00
24/05/2006
16:00.00
24/05/2006
20:00.00
24/05/2006
00:00.00
25/05/2006
Time

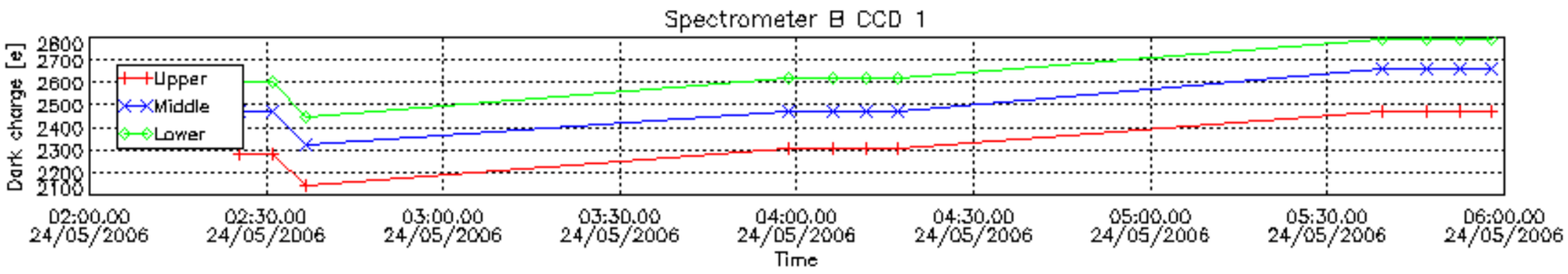
Spectrometer A CCD 1



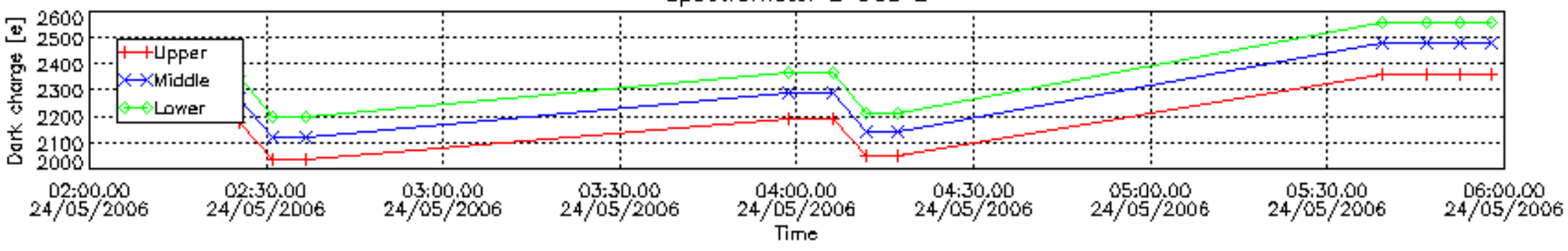
Spectrometer A CCD 2



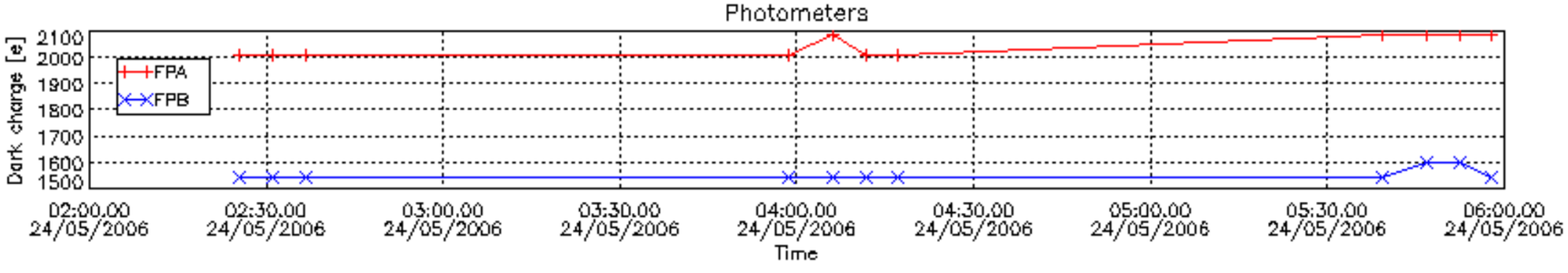
Spectrometer B CCD 1

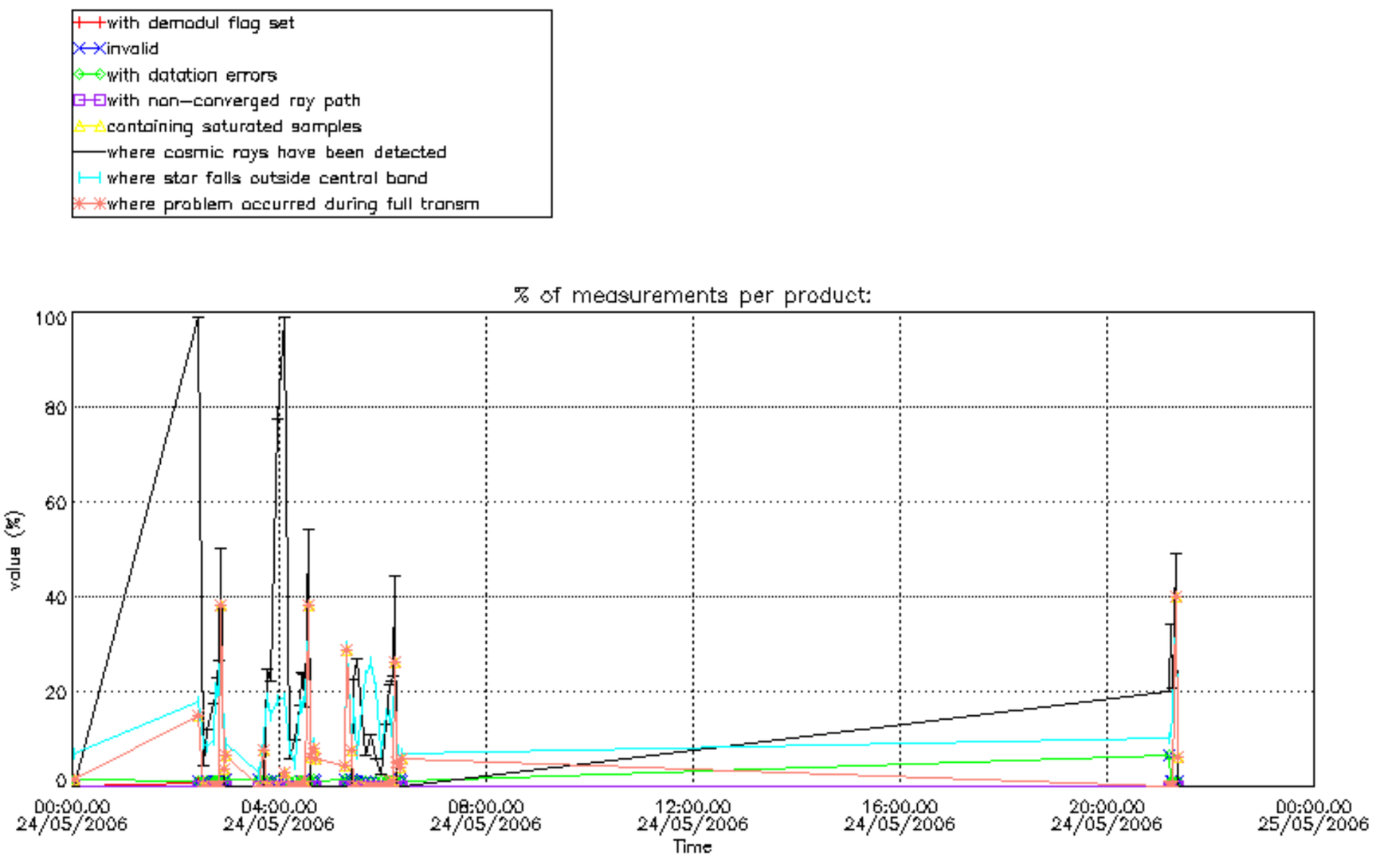


Spectrometer B CCD 2

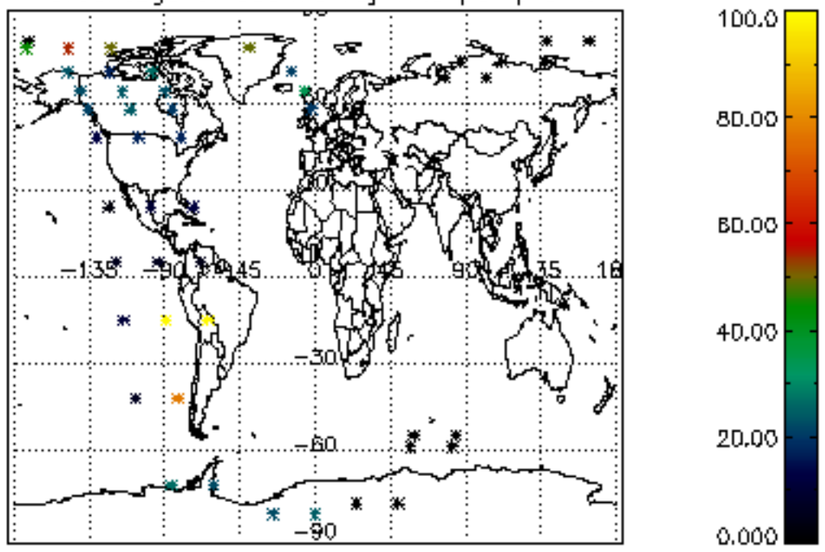


Photometers

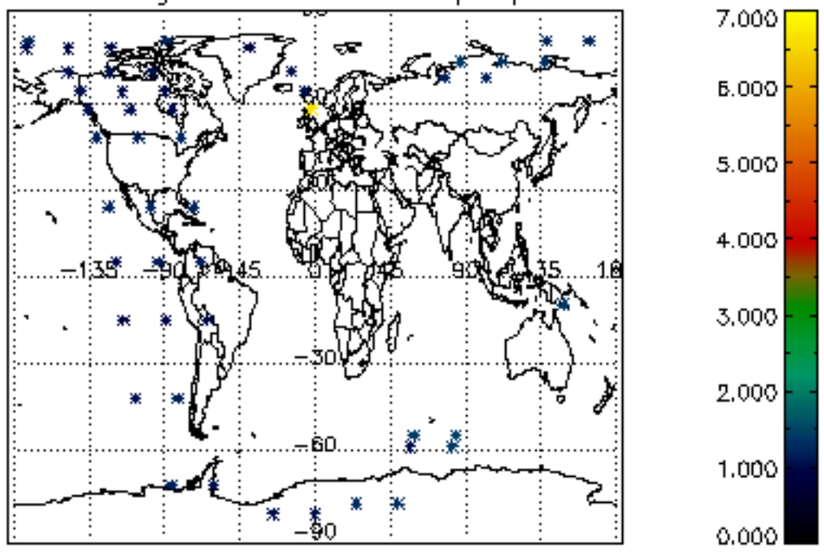



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
100
80
60
40
20
0
value (%)
00:00.00 24/05/2006
04:00.00 24/05/2006
08:00.00 24/05/2006
12:00.00 24/05/2006
16:00.00 24/05/2006
20:00.00 24/05/2006
00:00.00 25/05/2006
Time

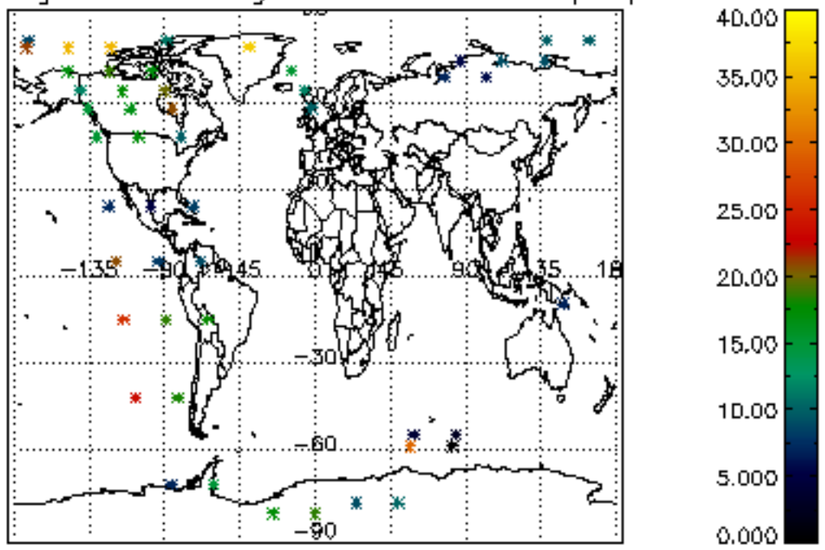
Percentage of cosmic ray hits per profile



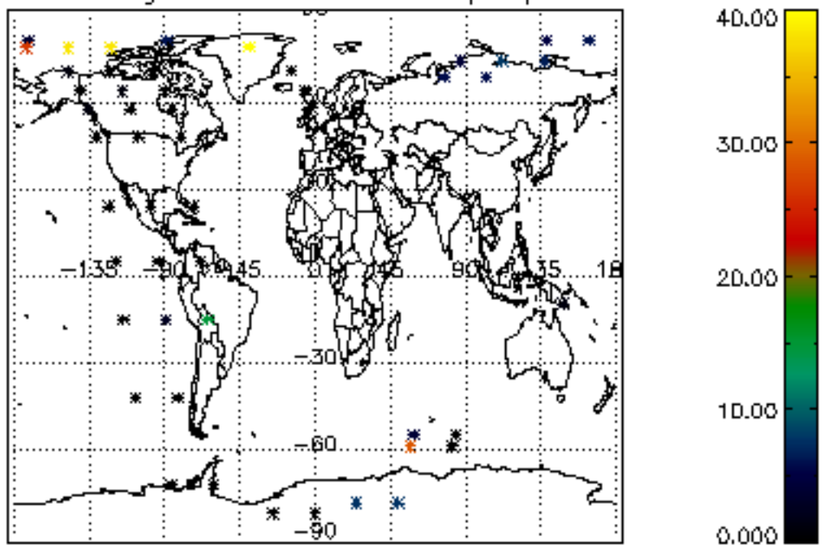
Percentage of datation errors per profile



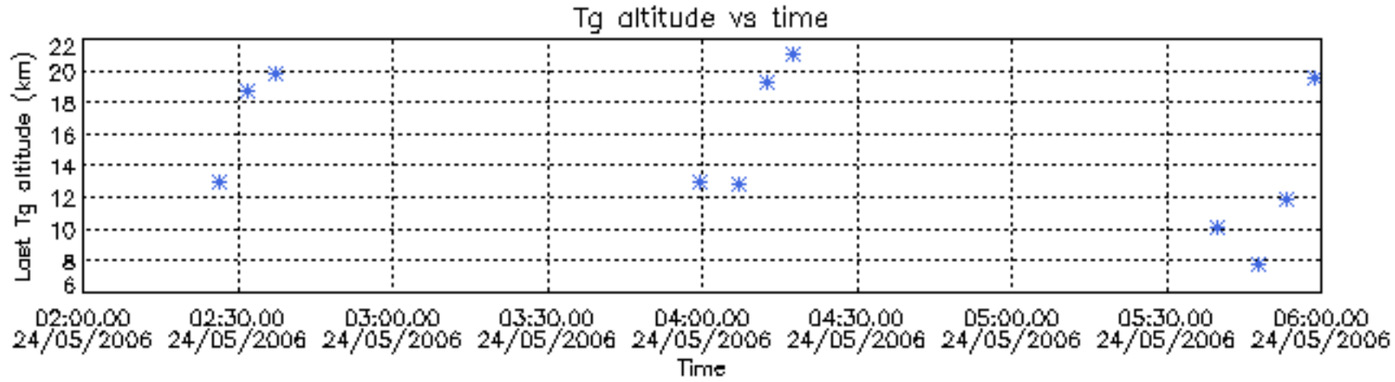
Percentage of star falling outside central band per profile

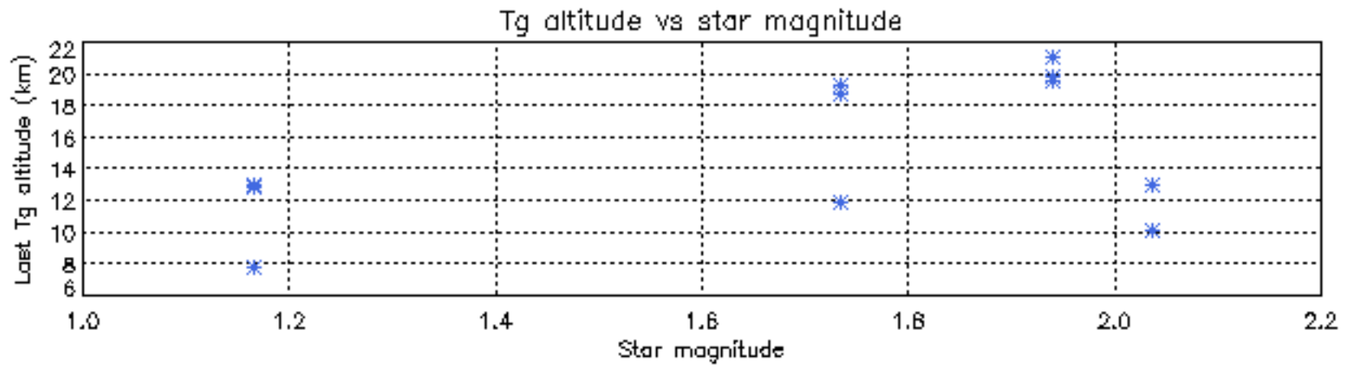


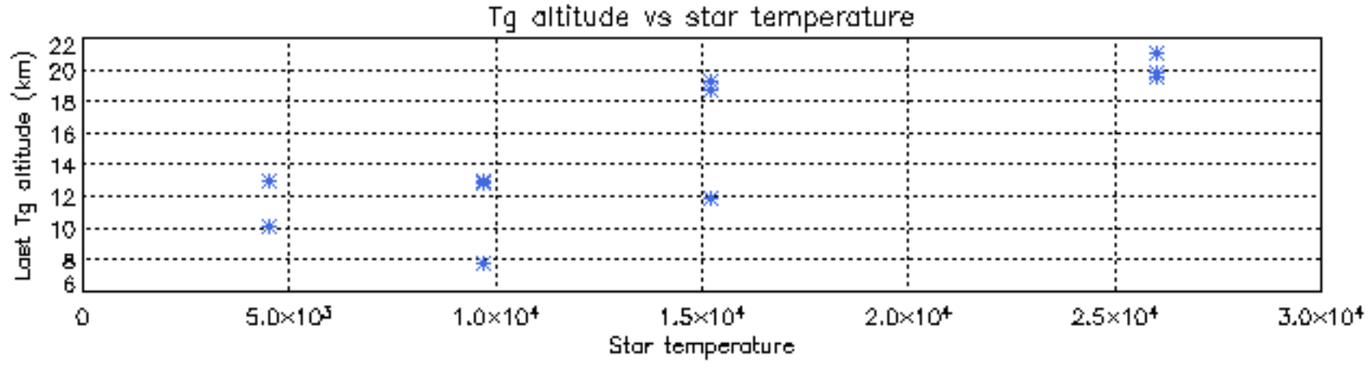
Percentage of saturation errors per profile



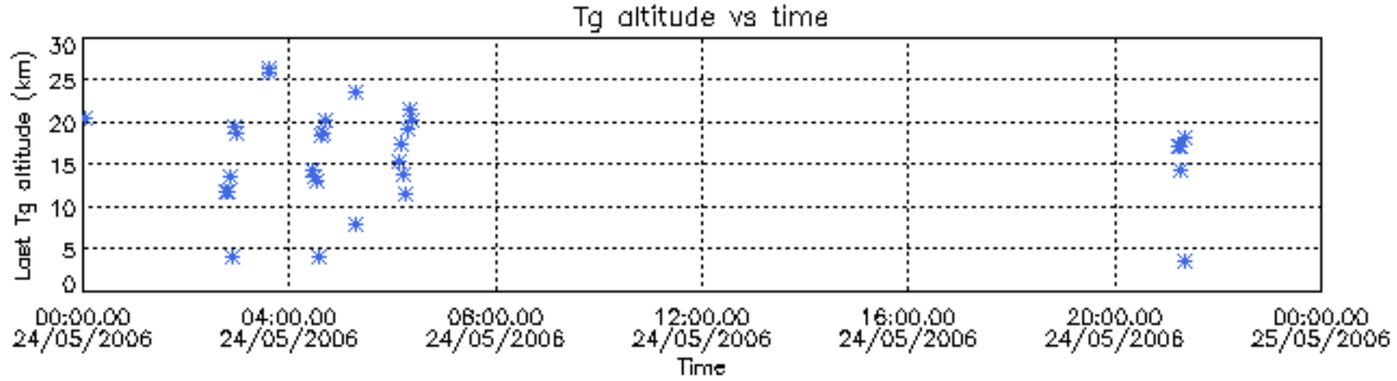
Tangent altitude at which the star is lost

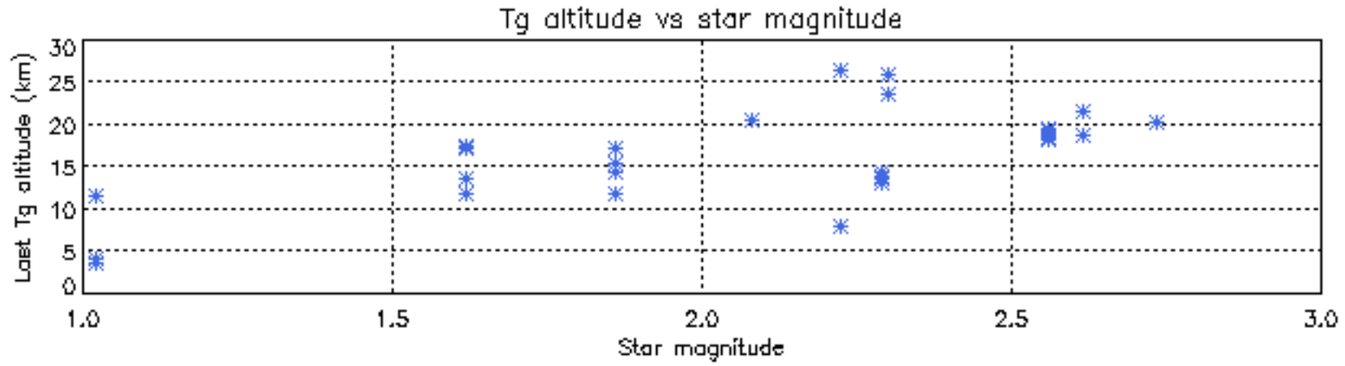


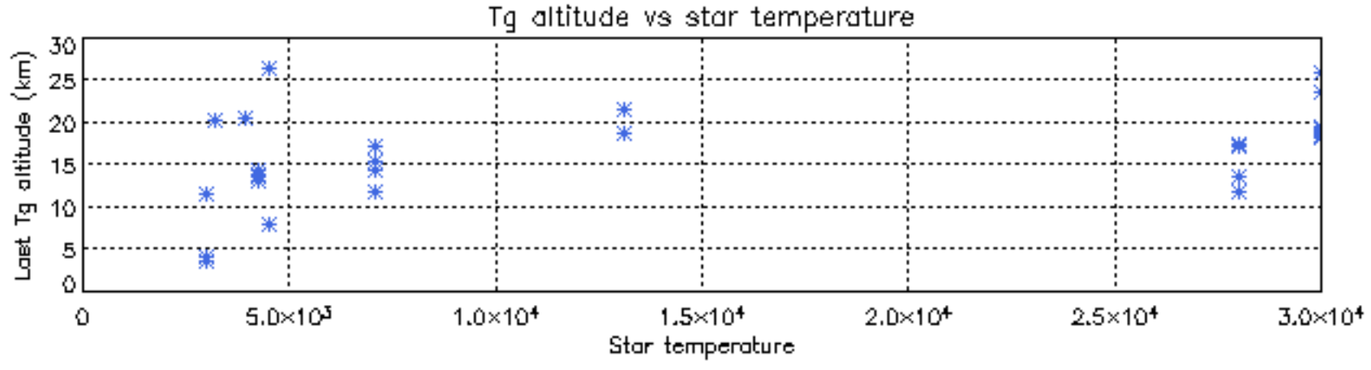




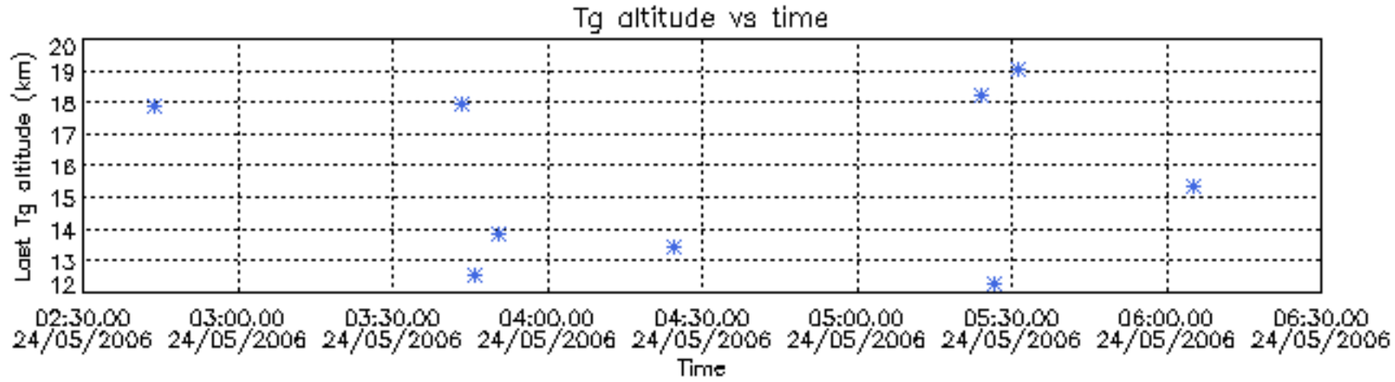
Tangent altitude at which the star is lost

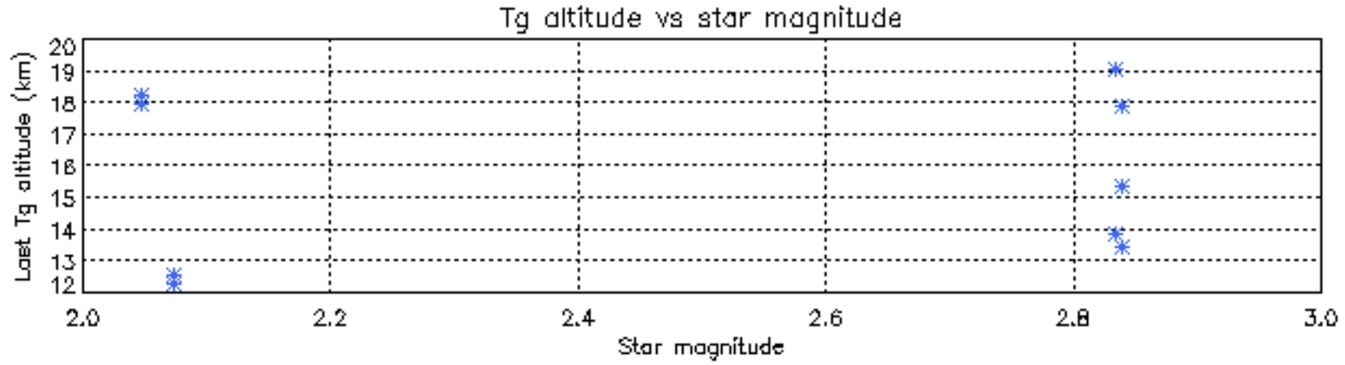


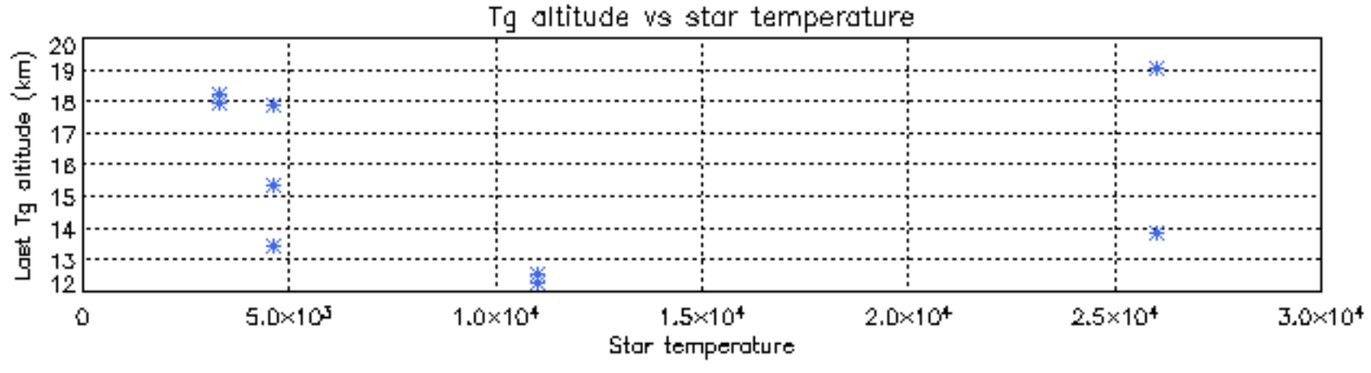


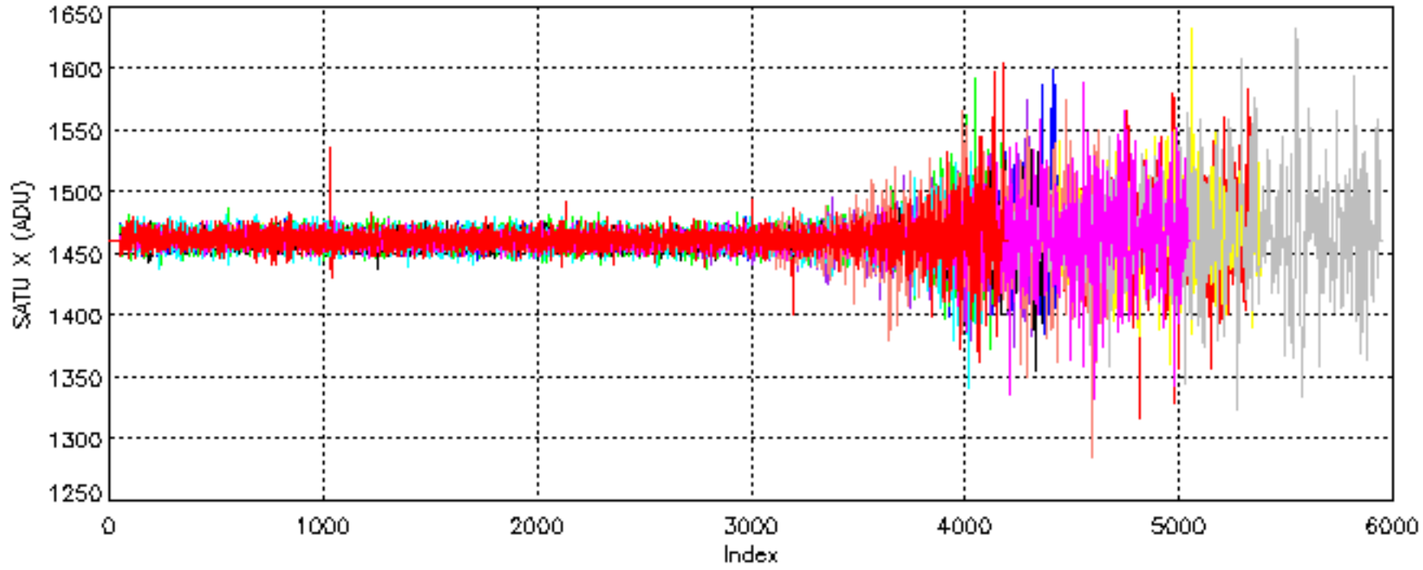


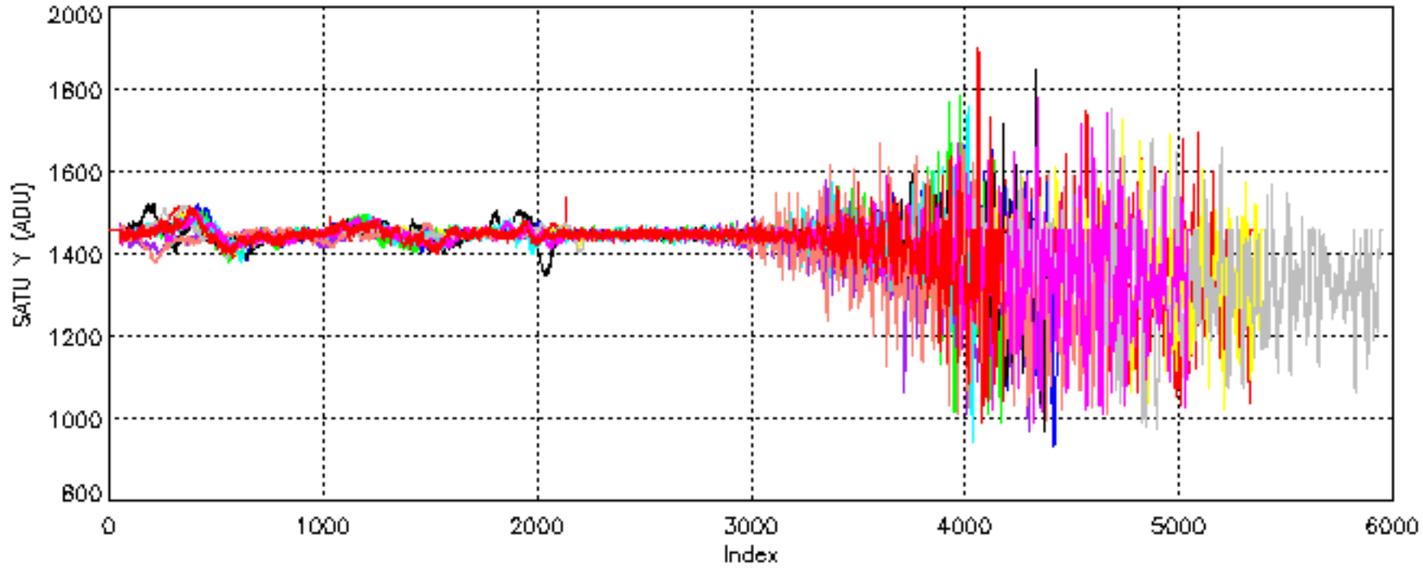
Tangent altitude at which the star is lost

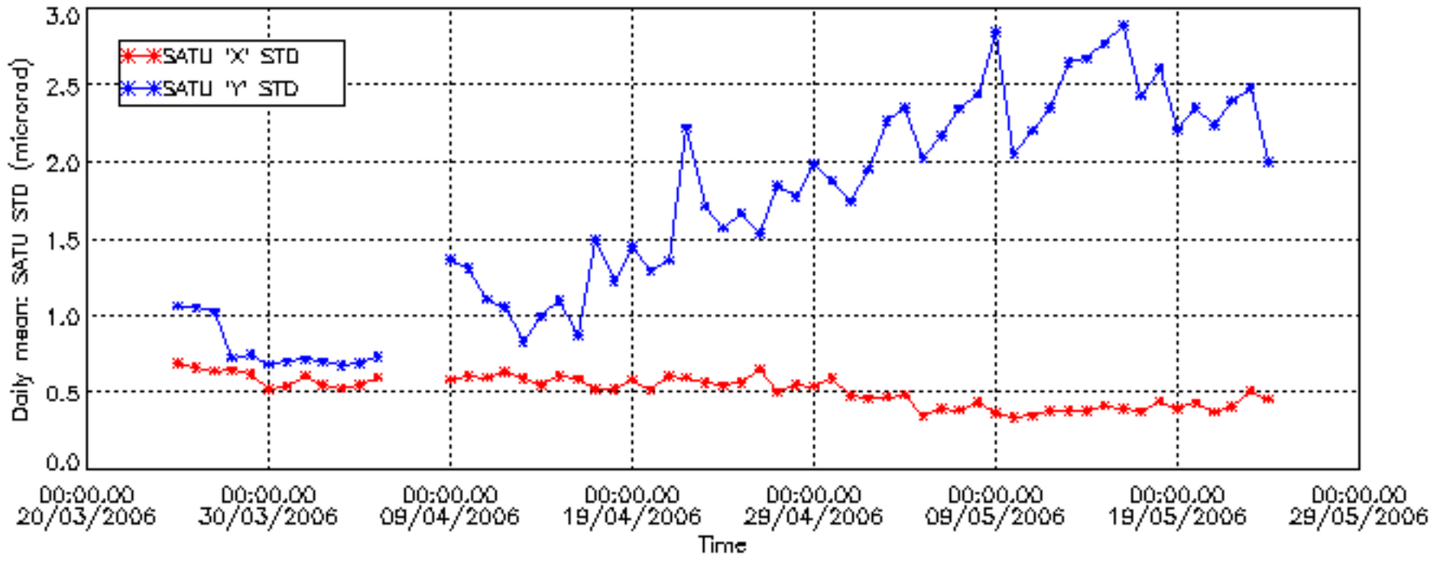







1650
1600
1550
1500
1450
1400
1350
1300
1250
SATU X (ADU)
0
1000
2000
3000
4000
5000
6000
Index


2000
1800
1600
1400
1200
1000
800
SATU Y (ADU)
0
1000
2000
3000
4000
5000
6000
Index


SATU 'X' STD
SATU 'Y' STD
Daily mean: SATU STD (microrad)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
00:00.00 20/03/2006
00:00.00 30/03/2006
00:00.00 09/04/2006
00:00.00 19/04/2006
00:00.00 29/04/2006
00:00.00 09/05/2006
00:00.00 19/05/2006
00:00.00 29/05/2006
Time

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1; -495.1; 01-MAY-2006 01:03:54; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;21785
2; -368.8; 01-MAY-2006 01:06:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21785
3; -149.2; 01-MAY-2006 01:09:40; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;21785
4; 8.5; 01-MAY-2006 01:12:18; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;21786
5; 179.4; 01-MAY-2006 01:15:08; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;21786
6; 576.1; 01-MAY-2006 01:21:45; Dark ; 45.5; 43; Alp TrA ; 1.91; 4250;occ; 91; 0;21786
7; 707.9; 01-MAY-2006 01:23:57; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21786
8; 831.6; 01-MAY-2006 01:26:01; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;21786
9; 1036.7; 01-MAY-2006 01:29:26; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;21786
10; 1129.2; 01-MAY-2006 01:30:58; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;21786
11; 1254.8; 01-MAY-2006 01:33:04; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;21786
12; 1512.0; 01-MAY-2006 01:37:21; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;21786
13; 1711.5; 01-MAY-2006 01:40:41; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;21786
14; 1895.8; 01-MAY-2006 01:43:45; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;21786
15; 2095.0; 01-MAY-2006 01:47:04; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;21786
16; 2559.3; 01-MAY-2006 01:54:48; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;21786
17; 2832.2; 01-MAY-2006 01:59:21; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21786
18; 2916.2; 01-MAY-2006 02:00:45; Bright; 33.0; 82; 48Bet UMa ; 2.37; 10600;occ; 66; 0;21786
19; 2995.2; 01-MAY-2006 02:02:04; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;21786
20; 3444.2; 01-MAY-2006 02:09:33; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21786
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2;-2036.1; 01-MAY-2006 02:18:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;21786
3; -494.5; 01-MAY-2006 02:44:30; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;21786
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5; -148.8; 01-MAY-2006 02:50:16; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;21786
6; 8.8; 01-MAY-2006 02:52:54; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;21787
7; 180.1; 01-MAY-2006 02:55:45; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;21787
8; 576.6; 01-MAY-2006 03:02:22; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;21787
9; 708.3; 01-MAY-2006 03:04:33; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;21787
10; 831.9; 01-MAY-2006 03:06:37; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;21787
11; 1037.1; 01-MAY-2006 03:10:02; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;21787
12; 1129.8; 01-MAY-2006 03:11:35; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;21787
13; 1255.1; 01-MAY-2006 03:13:40; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;21787
14; 1512.2; 01-MAY-2006 03:17:57; Dark ; 43.0; 169; 46Gam Hya ; 2.99; 4700;occ; 86; 0;21787
15; 1711.7; 01-MAY-2006 03:21:17; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;21787
16; 1896.2; 01-MAY-2006 03:24:21; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;21787
17; 2095.2; 01-MAY-2006 03:27:40; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;21787
18; 2559.4; 01-MAY-2006 03:35:24; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;21787
19; 2832.4; 01-MAY-2006 03:39:57; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21787
20; 2916.4; 01-MAY-2006 03:41:21; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;21787
21; 2995.5; 01-MAY-2006 03:42:40; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21787
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   9; 3081.9; 17-MAY-2006 17:06:03; Bright;  40.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  80;   0;22024
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   8; 4009.6; 22-MAY-2006 13:02:49; Bright;  46.0;   68; 18Alp Cas  ; 2.22;  4500;occ;  92;   0;22093
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  13; -160.4; 24-MAY-2006 10:50:05; Dark  ;  50.5;    0;            ; 0.00;     0;occ; 101;   0;22120
  14;  -12.5; 24-MAY-2006 10:52:33; Dark  ;  47.5;   63;   Bet Gru  ; 2.15;  2800;occ;  95;   0;22120
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   8; 1096.3; 25-MAY-2006 00:35:49; Dark  ;  50.5;   25; 35Lam Sco  ; 1.62; 28000;occ; 101;   0;22129
   9; 1216.0; 25-MAY-2006 00:37:49; Dark  ;  48.5;   75; 26Eps Sco  ; 2.29;  4250;occ;  97;   0;22129
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   5; 6452.6; 25-MAY-2006 02:05:06; Dark  ;  42.0;   45;   Alp Pav  ; 1.94; 26000;occ;  84;   0;22129
   6; 6854.1; 25-MAY-2006 02:11:47; Dark  ;  40.0;  141;   Bet Ara  ; 2.84;  4600;occ;  80;   0;22129
   7; 7022.4; 25-MAY-2006 02:14:35; Dark  ;  51.5;   40;   The Sco  ; 1.86;  7100;occ; 103;   0;22129
   8; 7132.8; 25-MAY-2006 02:16:26; Dark  ;  46.5;   25; 35Lam Sco  ; 1.62; 28000;occ;  93;   0;22129
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