

GOMOS Daily Report 30-SEP-2005

Level 0 and Level 1 products

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	02OCT2005 05:02:39

Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (30SEP2005 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

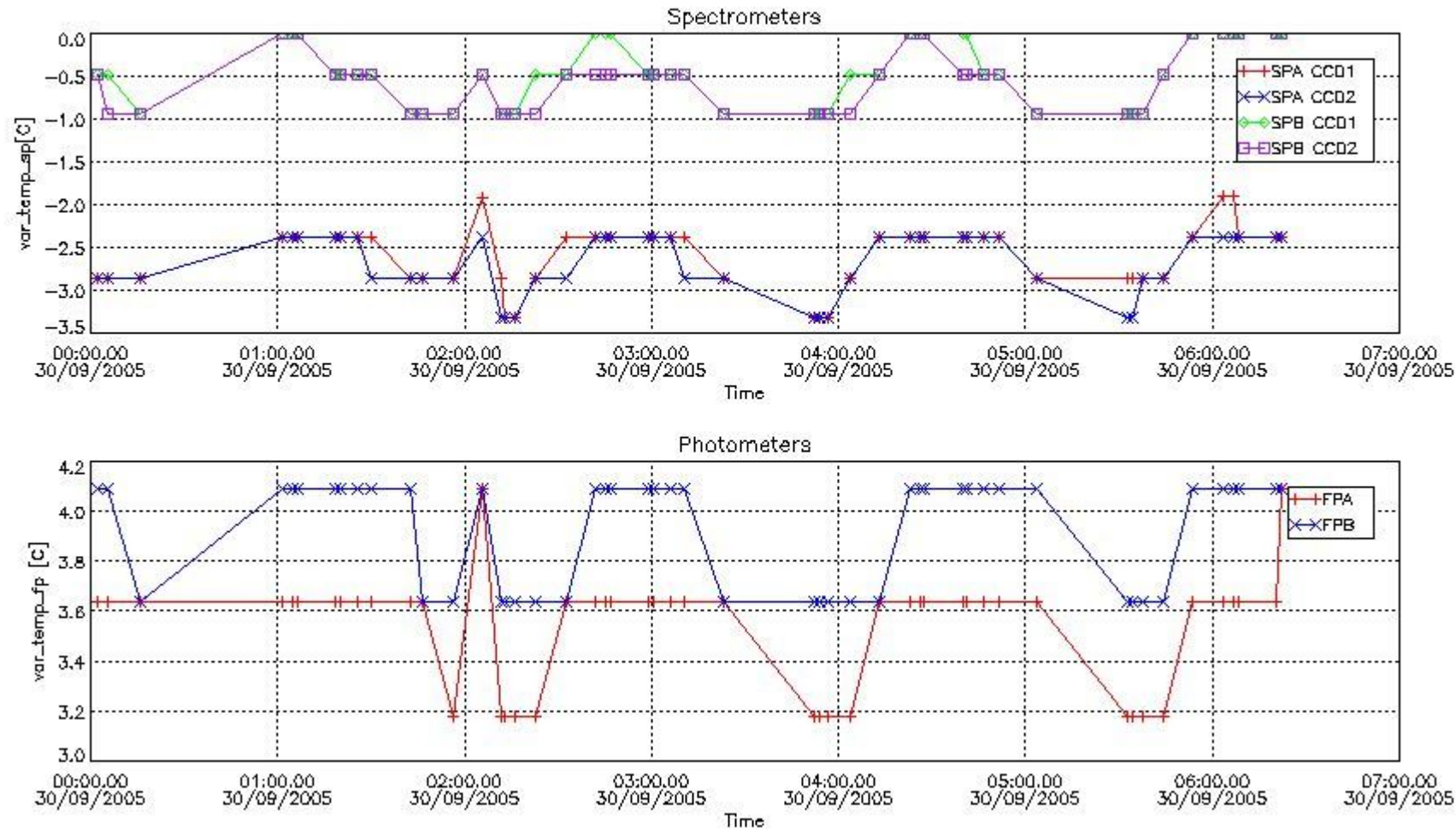
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20050930_000202_000000372041_00145_18736_0007.N1	30-SEP-2005 00:02:02	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18736	No
2	GOM_TRA_1PNPDE20050930_000541_000000372041_00145_18736_0008.N1	30-SEP-2005 00:05:41	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	18736	No
3	GOM_TRA_1PNPDE20050930_001552_000000362041_00145_18736_0009.N1	30-SEP-2005 00:15:52	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18736	No
4	GOM_TRA_1PNPDE20050930_010131_000000452041_00145_18736_0000.N1	30-SEP-2005 01:01:31	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18736	No
5	GOM_TRA_1PNPDE20050930_010449_000000402041_00145_18736_0001.N1	30-SEP-2005 01:04:49	Dark	40.000	46	Del Vel	1.9540	10600.	80	18736	No
6	GOM_TRA_1PNPDE20050930_010624_000000492041_00146_18737_0002.N1	30-SEP-2005 01:06:24	Dark	49.000	41	Eps Car	1.8600	4100.0	98	18737	No
7	GOM_TRA_1PNPDE20050930_011837_000000392041_00146_18737_0003.N1	30-SEP-2005 01:18:37	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18737	No
8	GOM_TRA_1PNPDE20050930_012005_000000422041_00146_18737_0004.N1	30-SEP-2005 01:20:05	Dark	42.000	9	Alp Eri	0.45300	24000.	84	18737	No
9	GOM_TRA_1PNPDE20050930_012528_000000432041_00146_18737_0005.N1	30-SEP-2005 01:25:28	Twilight	42.500	84	Alp Phe	2.3970	4500.0	85	18737	No
10	GOM_TRA_1PNPDE20050930_013009_000000432041_00146_18737_0006.N1	30-SEP-2005 01:30:09	Bright	42.500	18	24Alp PsA	1.1660	9700.0	85	18737	No
11	GOM_TRA_1PNPDE20050930_014238_000000372041_00146_18737_0007.N1	30-SEP-2005 01:42:38	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18737	No
12	GOM_TRA_1PNPDE20050930_014617_000000402041_00146_18737_0008.N1	30-SEP-2005 01:46:17	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	18737	No
13	GOM_TRA_1PNPDE20050930_015628_000000362041_00146_18737_0009.N1	30-SEP-2005 01:56:28	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18737	No
14	GOM_TRA_1PNPDE20050930_020538_000000362041_00146_18737_0000.N1	30-SEP-2005 02:05:38	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18737	Yes
15	GOM_TRA_1PNPDE20050930_021134_000000352041_00146_18737_0001.N1	30-SEP-2005 02:11:34	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18737	No
16	GOM_TRA_1PNPDE20050930_021304_000000342041_00146_18737_0002.N1	30-SEP-2005 02:13:04	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	18737	No
17	GOM_TRA_1PNPDE20050930_021617_000000352041_00146_18737_0003.N1	30-SEP-2005 02:16:17	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	18737	No
18	GOM_TRA_1PNPDE20050930_022256_000000352041_00146_18737_0004.N1	30-SEP-2005 02:22:56	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	18737	No
19	GOM_TRA_1PNPDE20050930_023227_000000542041_00146_18737_0005.N1	30-SEP-2005 02:32:27	Twilight	54.000	48	30Alp Hya	1.9770	4100.0	108	18737	No
20	GOM_TRA_1PNPDE20050930_024208_000000442041_00146_18737_0006.N1	30-SEP-2005 02:42:08	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18737	No
21	GOM_TRA_1PNPDE20050930_024525_000000402041_00146_18737_0007.N1	30-SEP-2005 02:45:25	Dark	40.000	46	Del Vel	1.9540	10600.	80	18737	No
22	GOM_TRA_1PNPDE20050930_024701_000000452041_00147_18738_0008.N1	30-SEP-2005 02:47:01	Dark	45.000	41	Eps Car	1.8600	4100.0	90	18738	No
23	GOM_TRA_1PNPDE20050930_025914_000000392041_00147_18738_0009.N1	30-SEP-2005 02:59:14	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18738	No
24	GOM_TRA_1PNPDE20050930_030041_000000452041_00147_18738_0010.N1	30-SEP-2005 03:00:41	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18738	No
25	GOM_TRA_1PNPDE20050930_030604_000000392041_00147_18738_0011.N1	30-SEP-2005 03:06:04	Twilight	39.000	84	Alp Phe	2.3970	4500.0	78	18738	No
26	GOM_TRA_1PNPDE20050930_031045_000000442041_00147_18738_0012.N1	30-SEP-2005 03:10:45	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18738	No
27	GOM_TRA_1PNPDE20050930_032313_000000372041_00147_18738_0013.N1	30-SEP-2005 03:23:13	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18738	No
28	GOM_TRA_1PNPDE20050930_035210_000000352041_00147_18738_0000.N1	30-SEP-2005 03:52:10	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	18738	No
29	GOM_TRA_1PNPDE20050930_035340_000000522041_00147_18738_0001.N1	30-SEP-2005 03:53:40	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18738	No
30	GOM_TRA_1PNPDE20050930_035653_000000352041_00147_18738_0002.N1	30-SEP-2005 03:56:53	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	18738	No
31	GOM_TRA_1PNPDE20050930_040332_000000362041_00147_18738_0003.N1	30-SEP-2005 04:03:32	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	18738	No
32	GOM_TRA_1PNPDE20050930_041303_000000542041_00147_18738_0004.N1	30-SEP-2005 04:13:03	Twilight	54.000	48	30Alp Hya	1.9770	4100.0	108	18738	No
33	GOM_TRA_1PNPDE20050930_042244_000000432041_00147_18738_0005.N1	30-SEP-2005 04:22:44	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	18738	No
34	GOM_TRA_1PNPDE20050930_042602_000000402041_00147_18738_0006.N1	30-SEP-2005 04:26:02	Dark	40.000	46	Del Vel	1.9540	10600.	80	18738	No
35	GOM_TRA_1PNPDE20050930_042737_000000472041_00148_18739_0007.N1	30-SEP-2005 04:27:37	Dark	47.000	41	Eps Car	1.8600	4100.0	94	18739	No
36	GOM_TRA_1PNPDE20050930_043950_000000392041_00148_18739_0008.N1	30-SEP-2005 04:39:50	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18739	No
37	GOM_TRA_1PNPDE20050930_044118_000000432041_00148_18739_0009.N1	30-SEP-2005 04:41:18	Dark	43.000	9	Alp Eri	0.45300	24000.	86	18739	No
38	GOM_TRA_1PNPDE20050930_044641_000000402041_00148_18739_0010.N1	30-SEP-2005 04:46:41	Twilight	40.000	84	Alp Phe	2.3970	4500.0	80	18739	No
39	GOM_TRA_1PNPDE20050930_045121_000000442041_00148_18739_0011.N1	30-SEP-2005 04:51:21	Bright	43.500	18	24Alp PsA	1.1660	9700.0	87	18739	No
40	GOM_TRA_1PNPDE20050930_050350_000000372041_00148_18739_0012.N1	30-SEP-2005 05:03:50	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18739	No
41	GOM_TRA_1PNPDE20050930_053247_000000352041_00148_18739_0000.N1	30-SEP-2005 05:32:47	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	18739	No
42	GOM_TRA_1PNPDE20050930_053416_000000522041_00148_18739_0001.N1	30-SEP-2005 05:34:16	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	18739	No
43	GOM_TRA_1PNPDE20050930_053729_000000512041_00148_18739_0002.N1	30-SEP-2005 05:37:29	Bright	51.000	174	52Psi UMa	3.0040	4400.0	102	18739	No
44	GOM_TRA_1PNPDE20050930_054408_000000362041_00148_18739_0003.N1	30-SEP-2005 05:44:08	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	18739	No
45	GOM_TRA_1PNPDE20050930_055340_000000462041_00148_18739_0004.N1	30-SEP-2005 05:53:40	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	18739	No
46	GOM_TRA_1PNPDE20050930_060320_000000492041_00148_18739_0005.N1	30-SEP-2005 06:03:20	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	18739	No

47	GOM_TRA_1PNPDE20050930_060638_000000382041_00148_18739_0006.N1	30-SEP-2005 06:06:38	Dark	38.000	46	Del Vel	1.9540	10600.	76	18739	No
48	GOM_TRA_1PNPDE20050930_060813_000000382041_00149_18740_0007.N1	30-SEP-2005 06:08:13	Dark	38.000	41	Eps Car	1.8600	4100.0	76	18740	No
49	GOM_TRA_1PNPDE20050930_062026_000000392041_00149_18740_0008.N1	30-SEP-2005 06:20:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18740	No
50	GOM_TRA_1PNPDE20050930_062154_000000452041_00149_18740_0009.N1	30-SEP-2005 06:21:54	Dark	45.000	9	Alp Eri	0.45300	24000.	90	18740	No

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



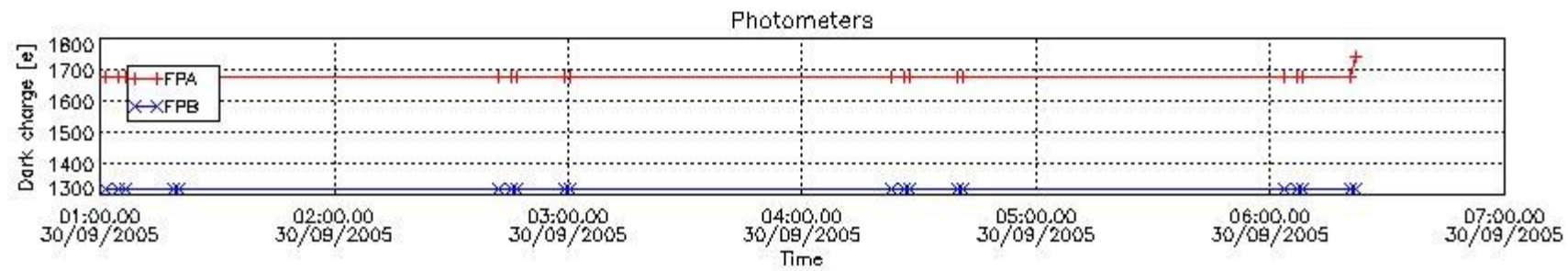
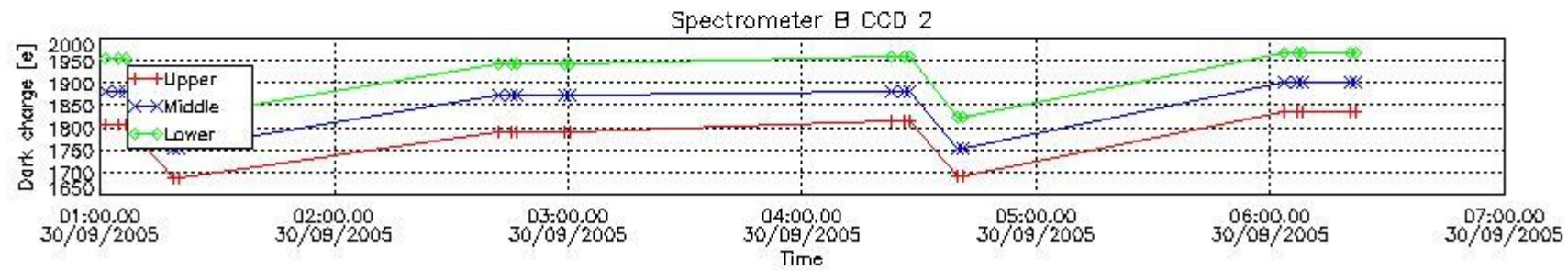
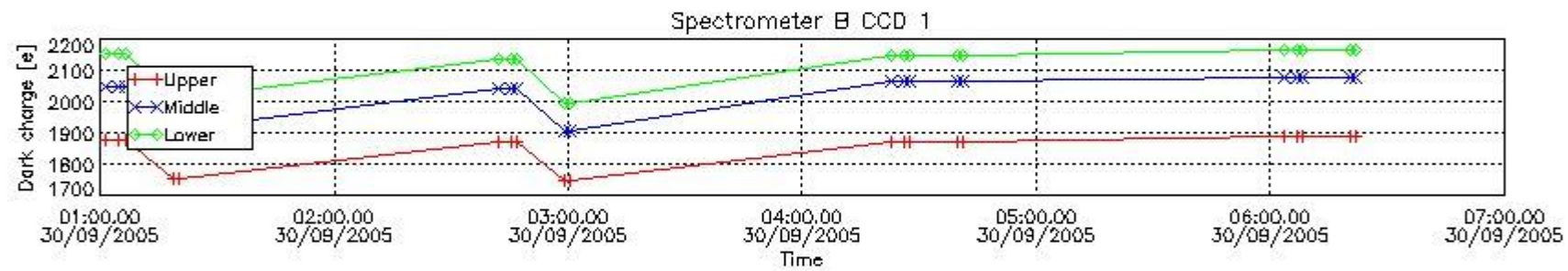
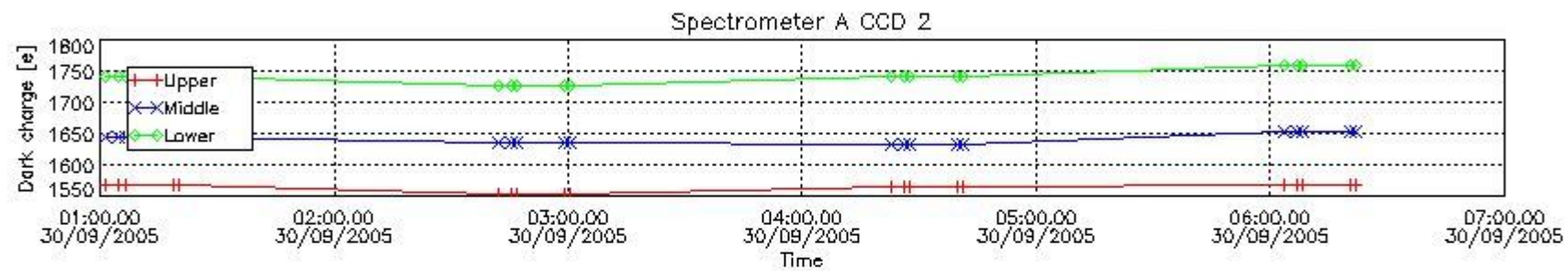
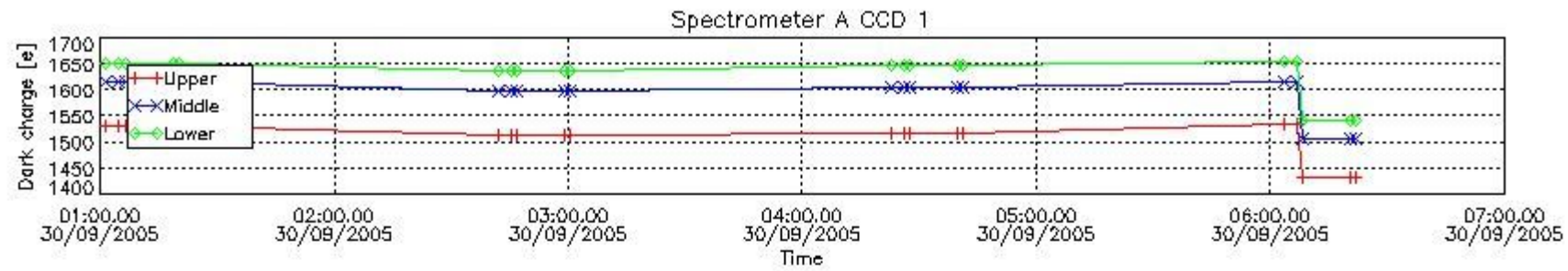
4. Overview of dark signal processing per product

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



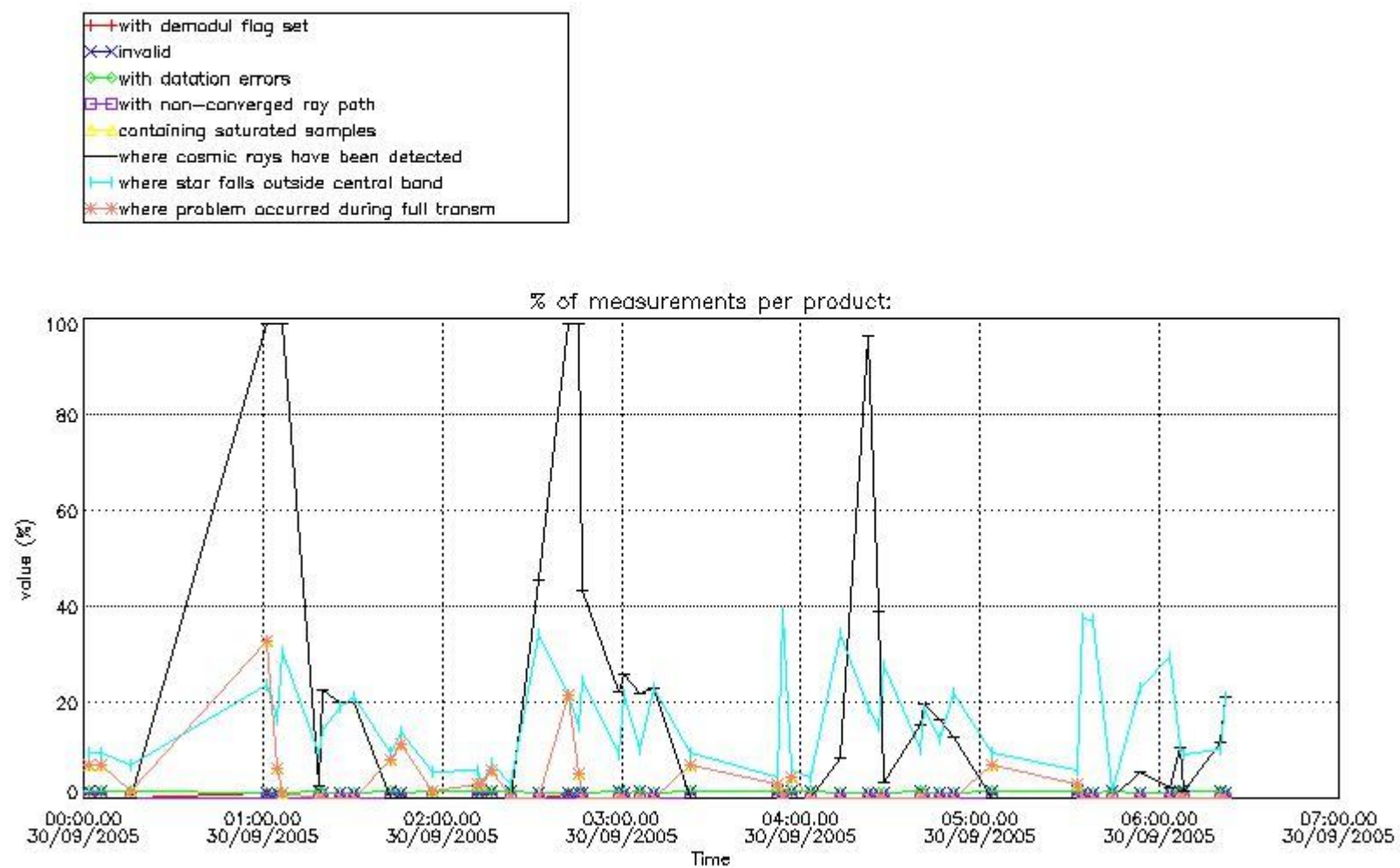
5. Demodulation flag and quality information monitoring

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.

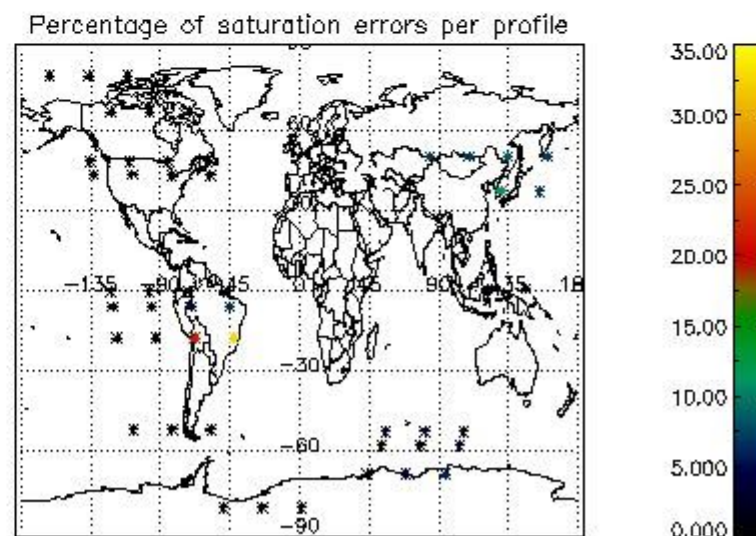
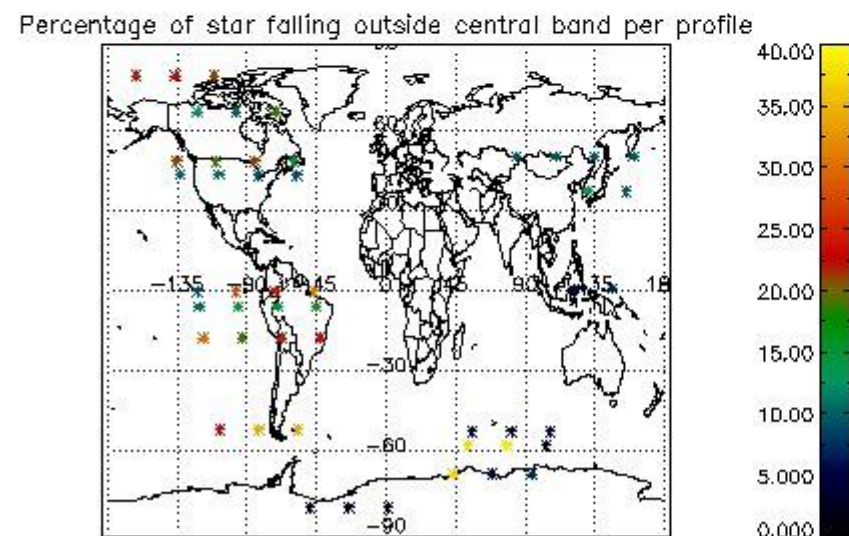
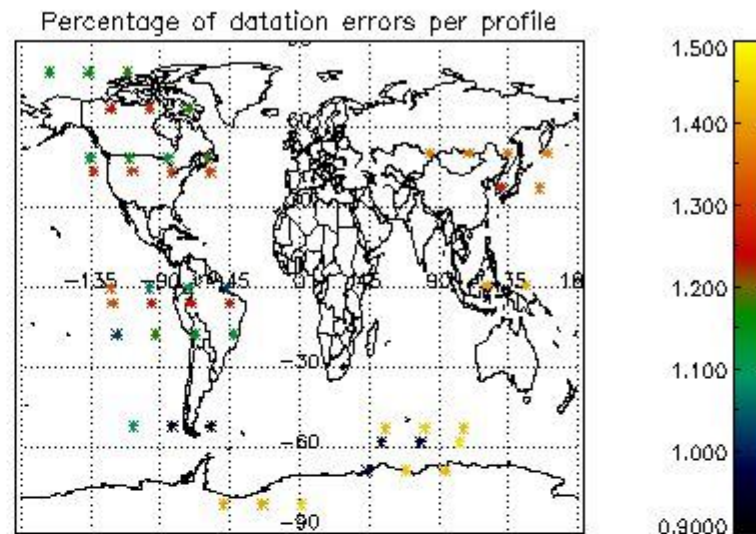
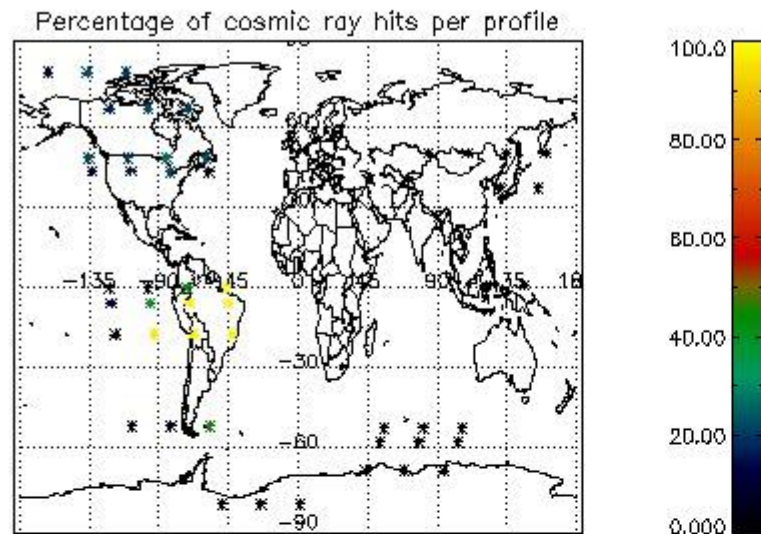
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



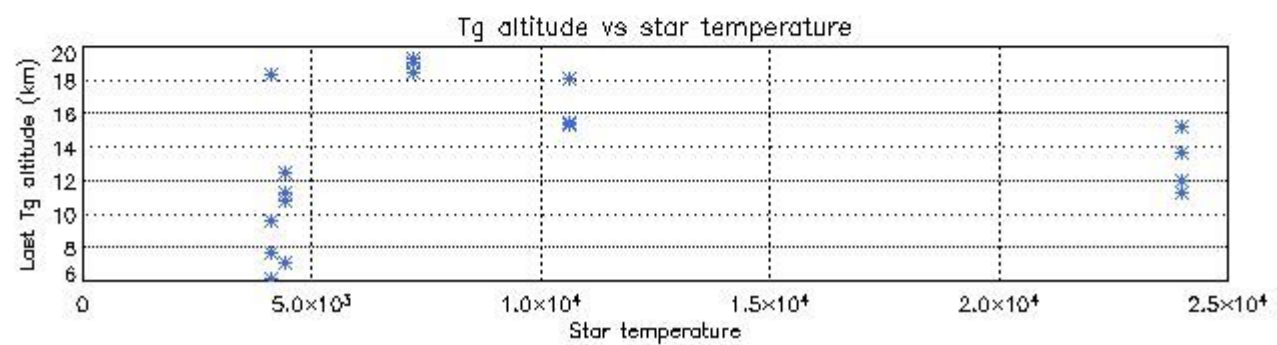
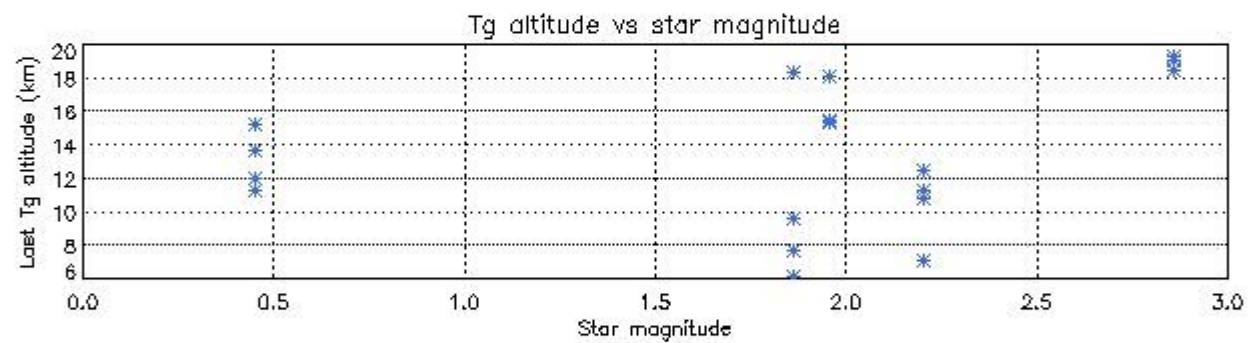
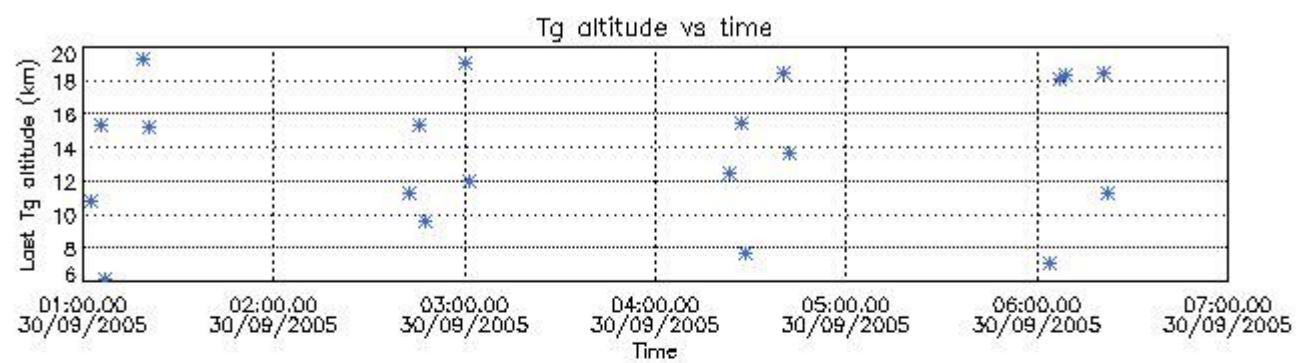
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.730	17.298	11.221
St. deviation:	4.1997	6.7042	5.8847
Maximum:	19.230	24.865	17.681
Minimum:	6.1028	3.4196	4.3337
Number of data:	20.000	23.000	6.0000

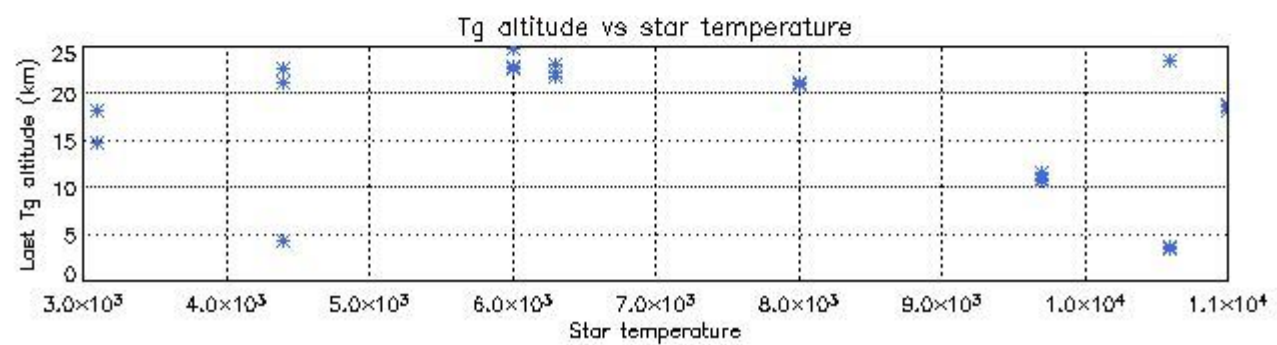
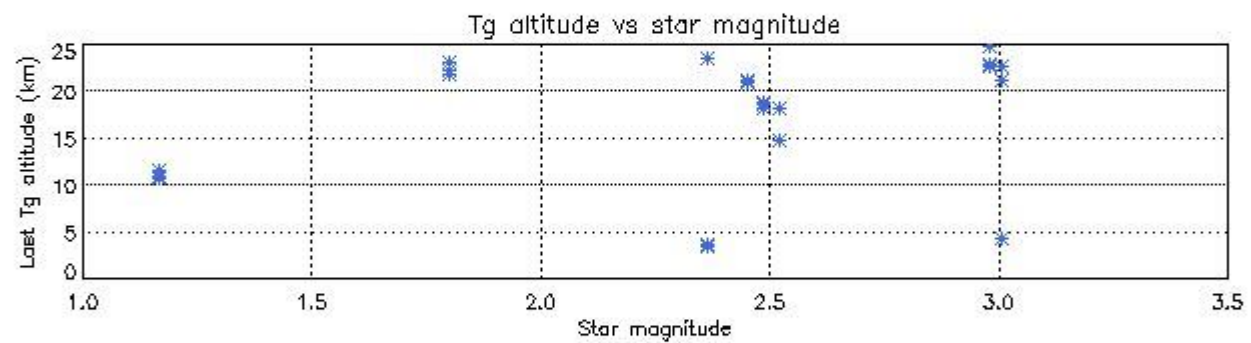
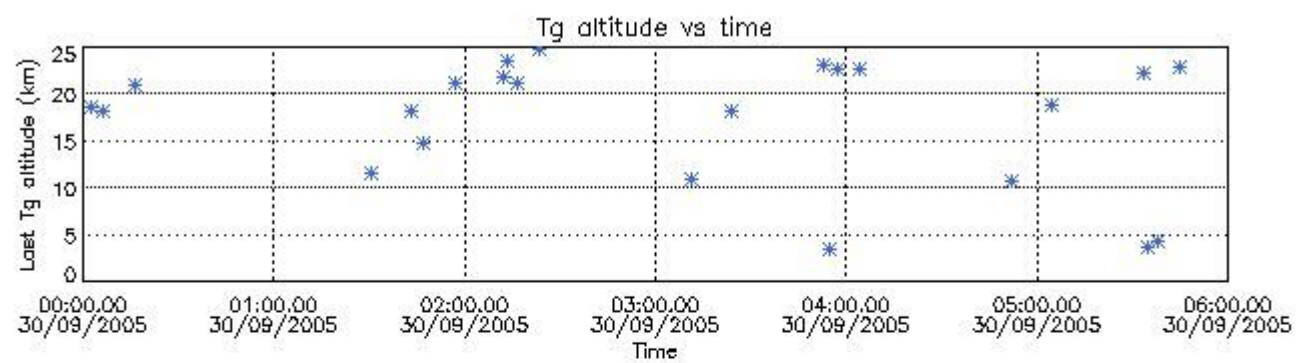
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



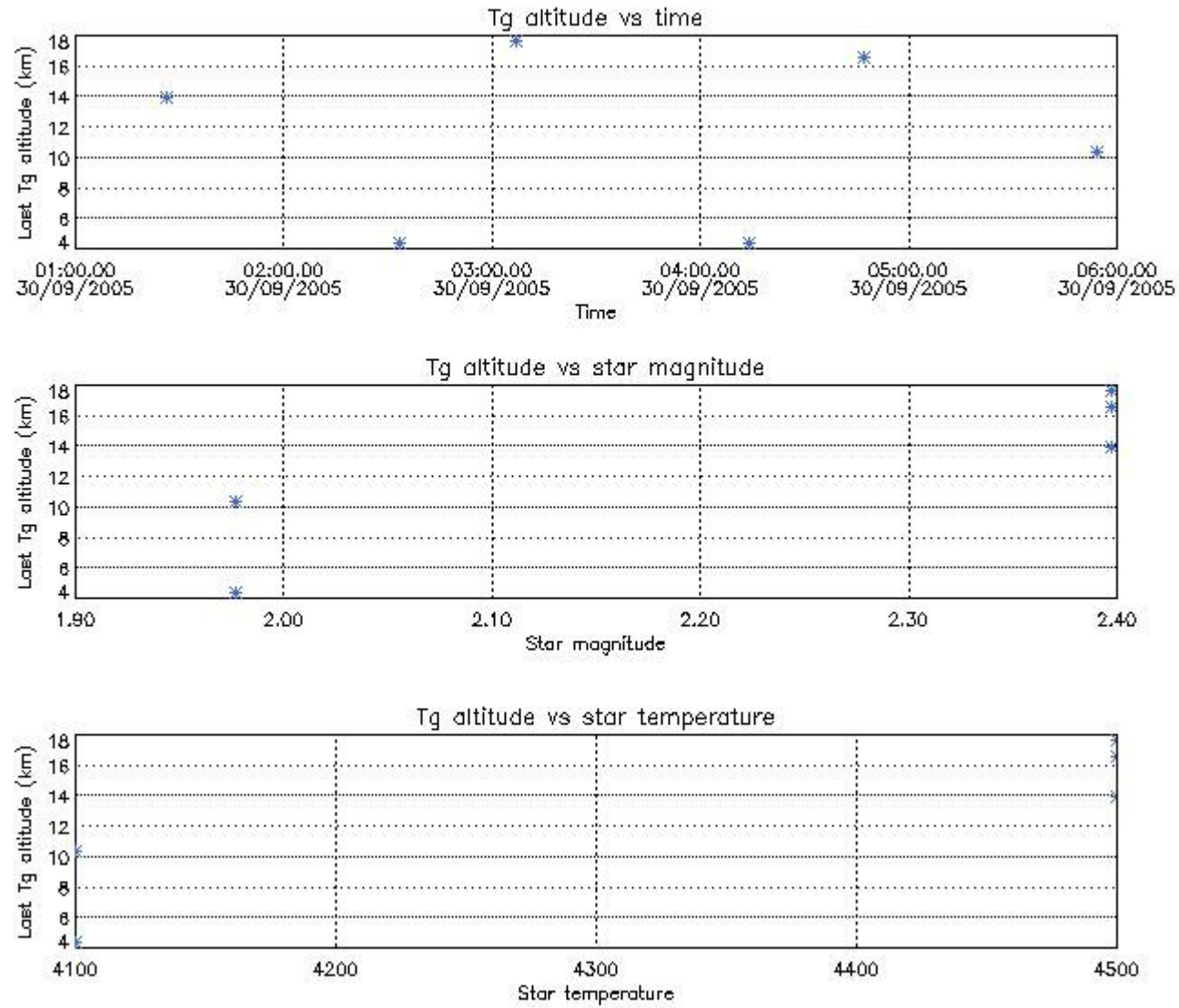
6.3 Plot for BRIGHT limb products

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

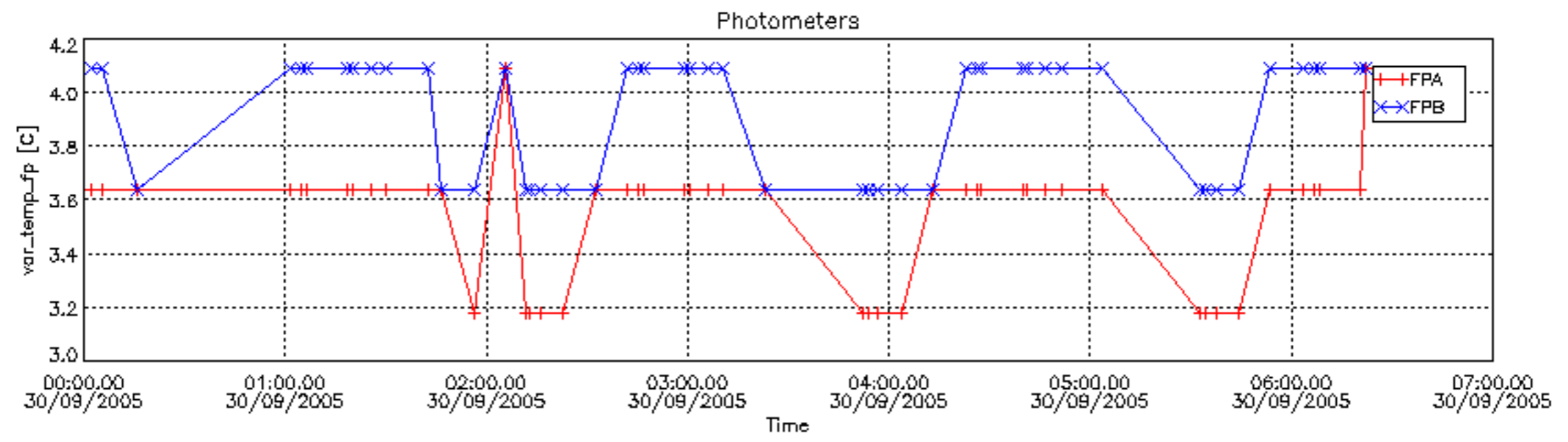
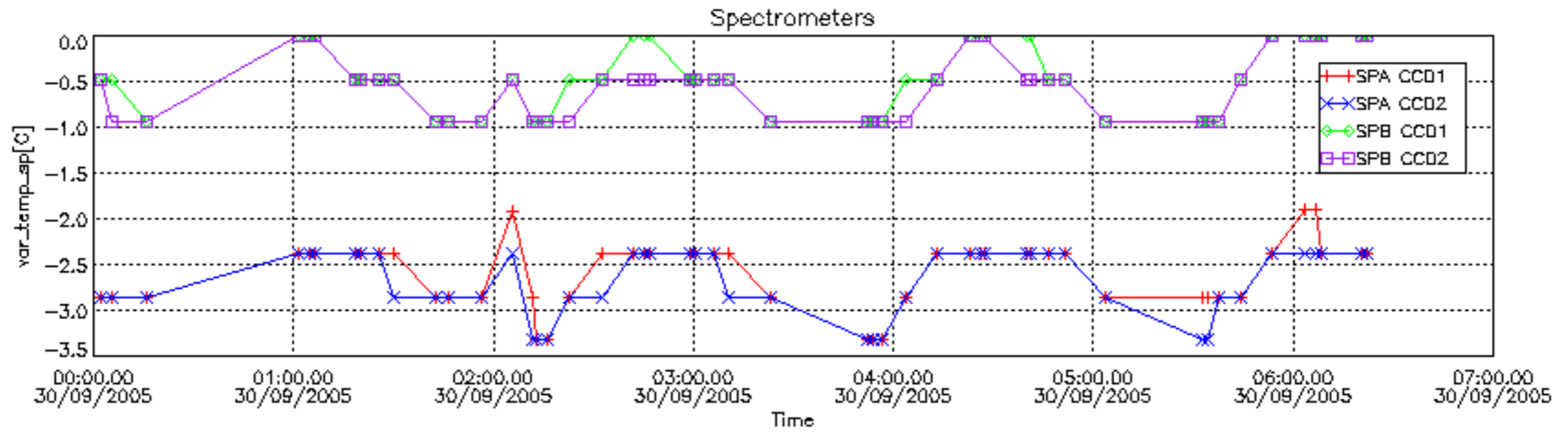
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

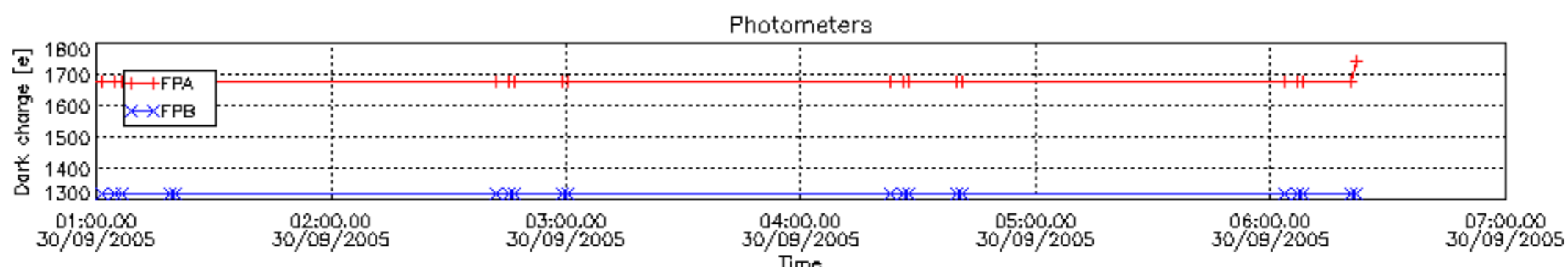
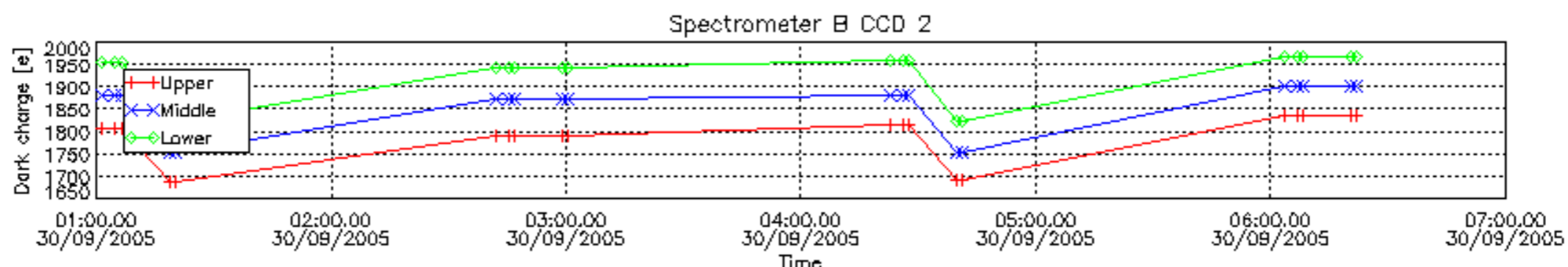
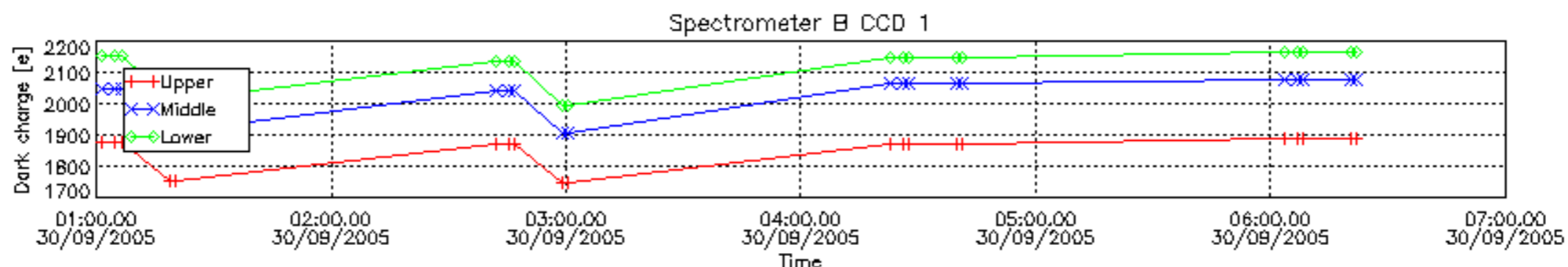
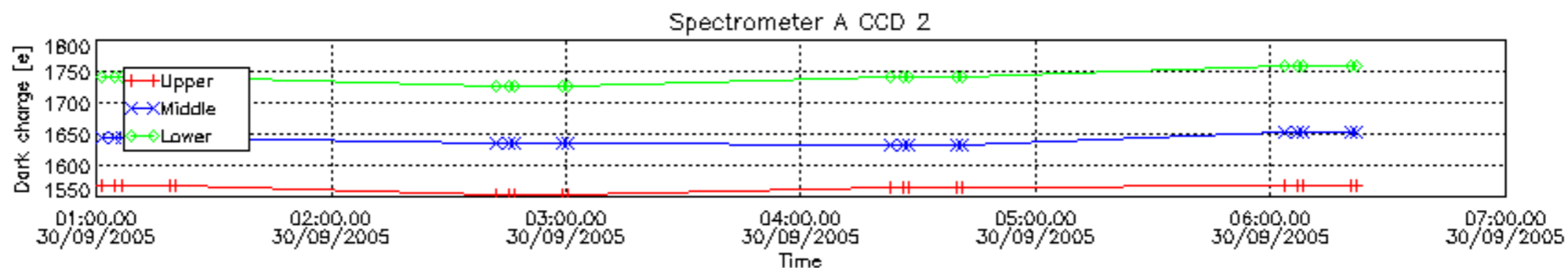
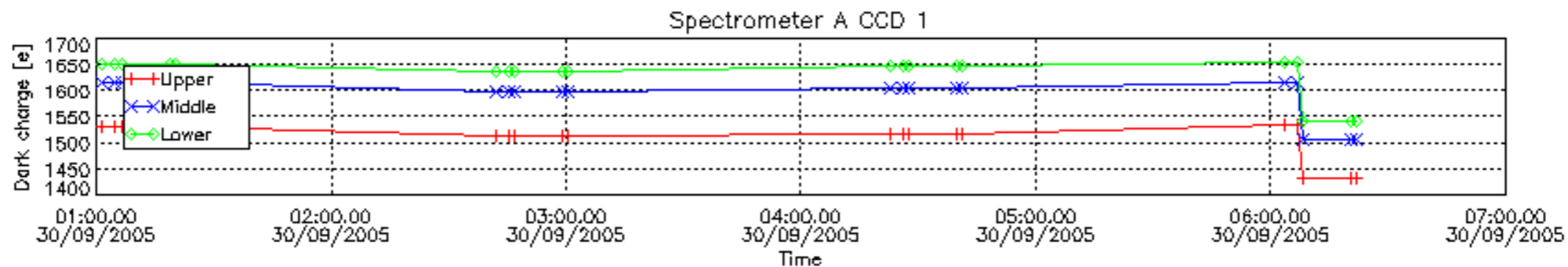
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.8	1446.3	1459.8	1446.3
St. deviation:	4.4807	9.7532	7.4332	13.410
Maximum:	1499.0	1492.0	1500.0	1505.0
Minimum:	1455.0	1427.0	1429.0	1399.0
Number of data:	17400.	17400.	18700.	18700.

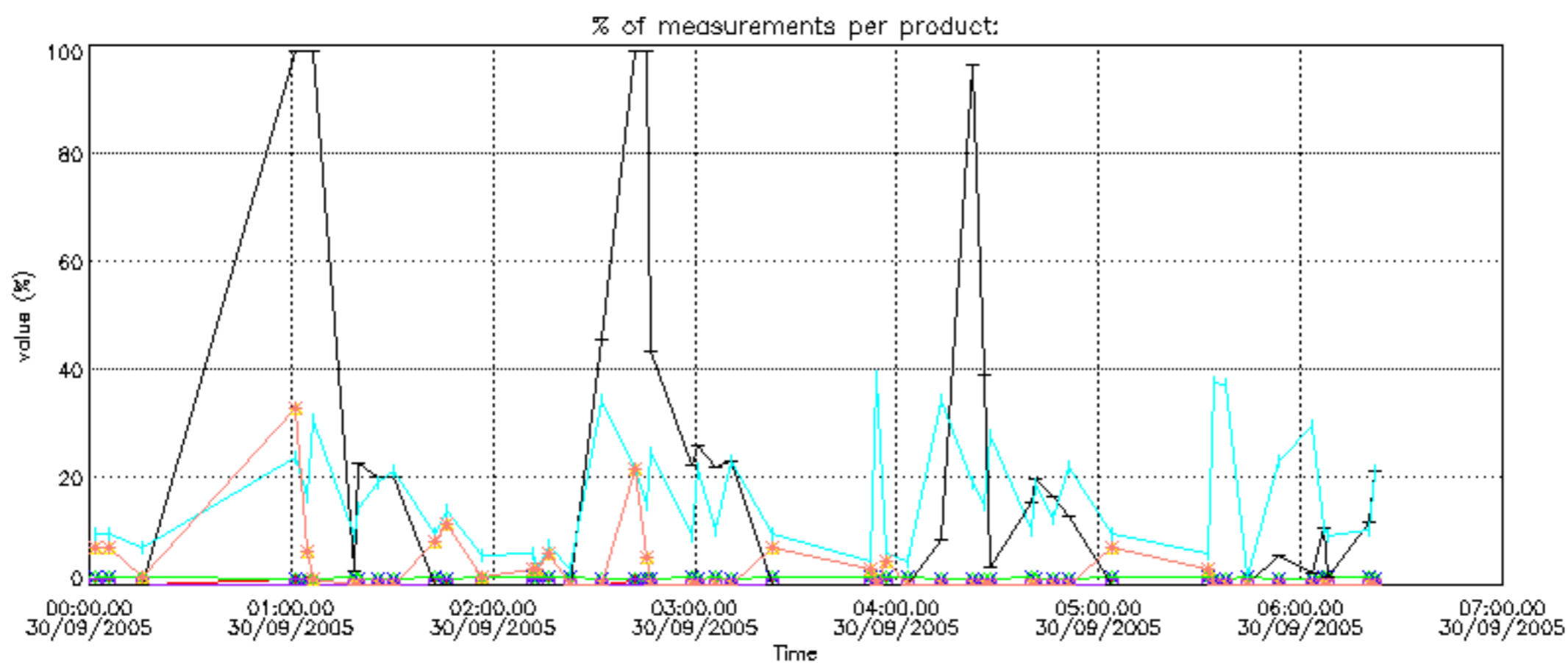
8. Auxiliary Data Files used for the production reported in section 2.2

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.

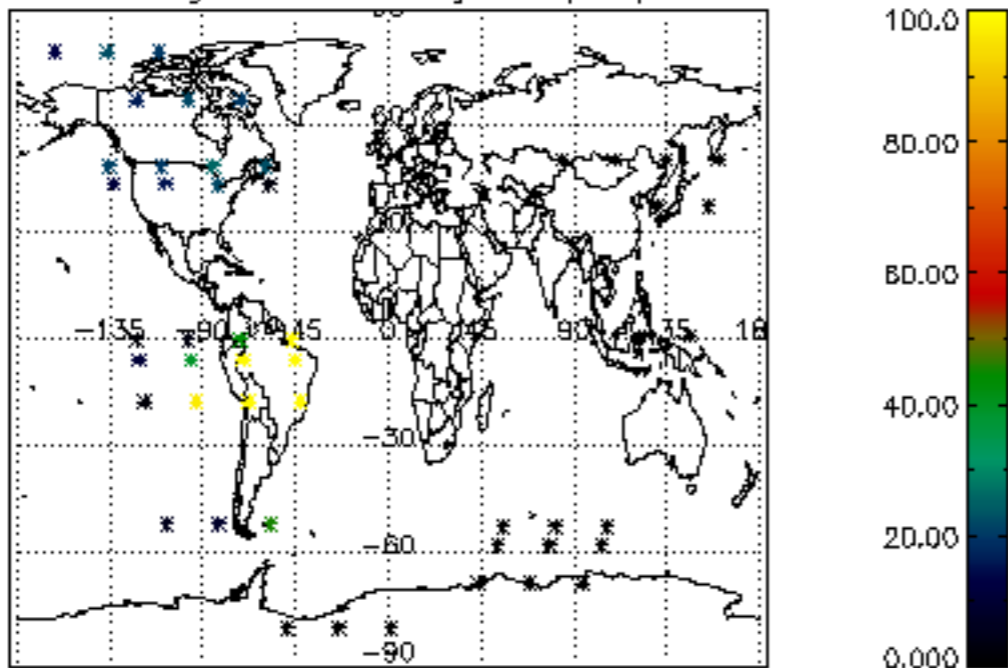
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	30-SEP-2005 00:02:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20050919_104724_20050917_000000_20100101_000000	1	30-SEP-2005 00:02:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	30-SEP-2005 00:02:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-SEP-2005 00:02:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	30-SEP-2005 00:02:02
ECMWF_FILE	AUX_ECF_AXNECM20050929_060701_20050929_210000_20050930_090000	1	30-SEP-2005 00:02:02
ECMWF_FILE	AUX_ECF_AXNECM20050929_192700_20050930_030000_20050930_150000	28	30-SEP-2005 03:52:10
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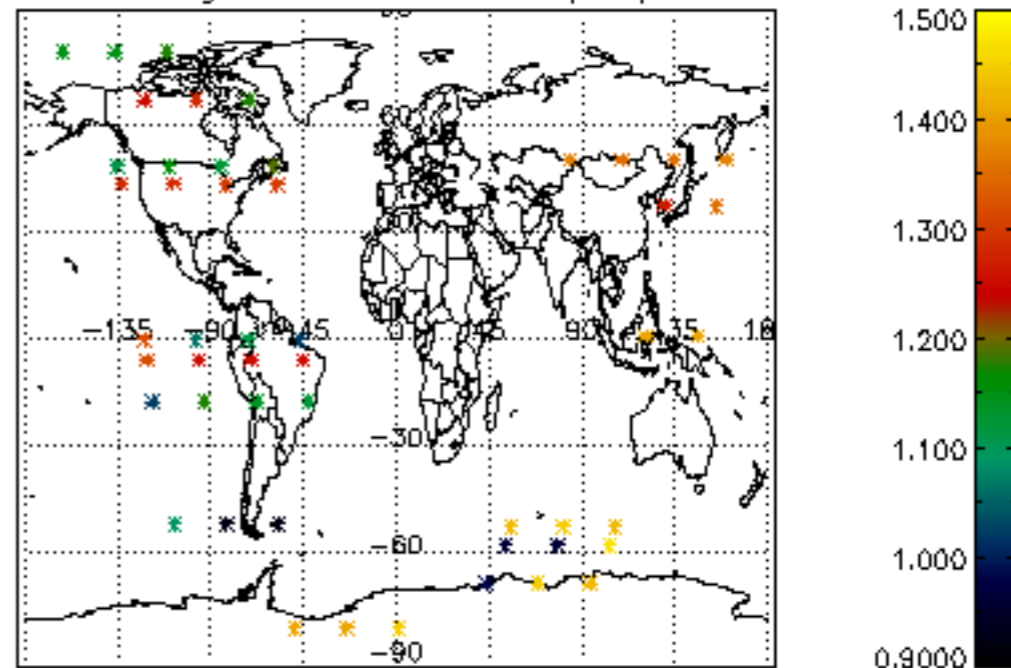




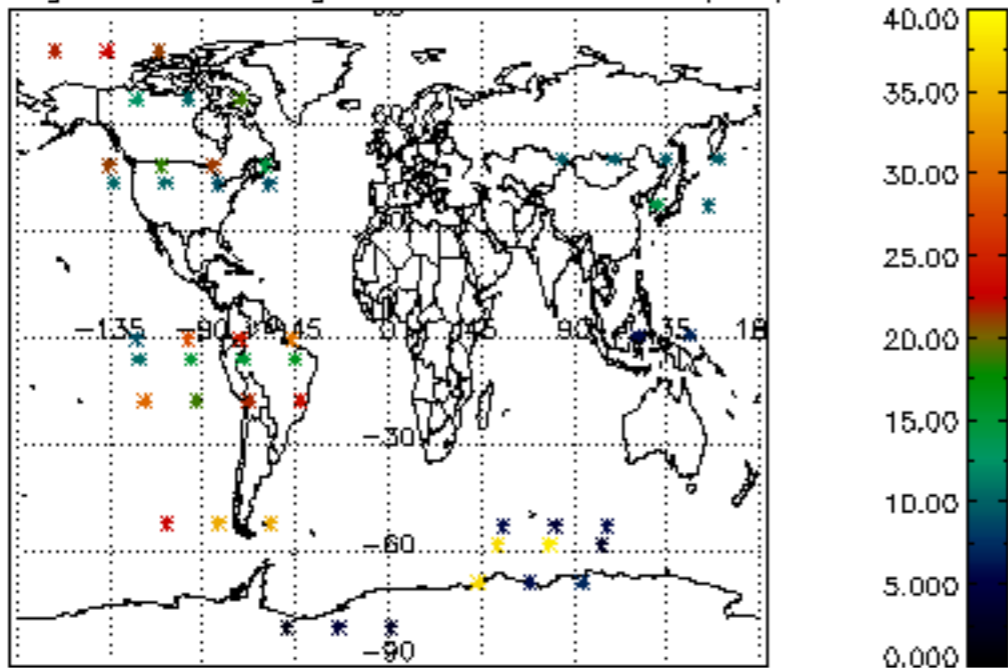
Percentage of cosmic ray hits per profile



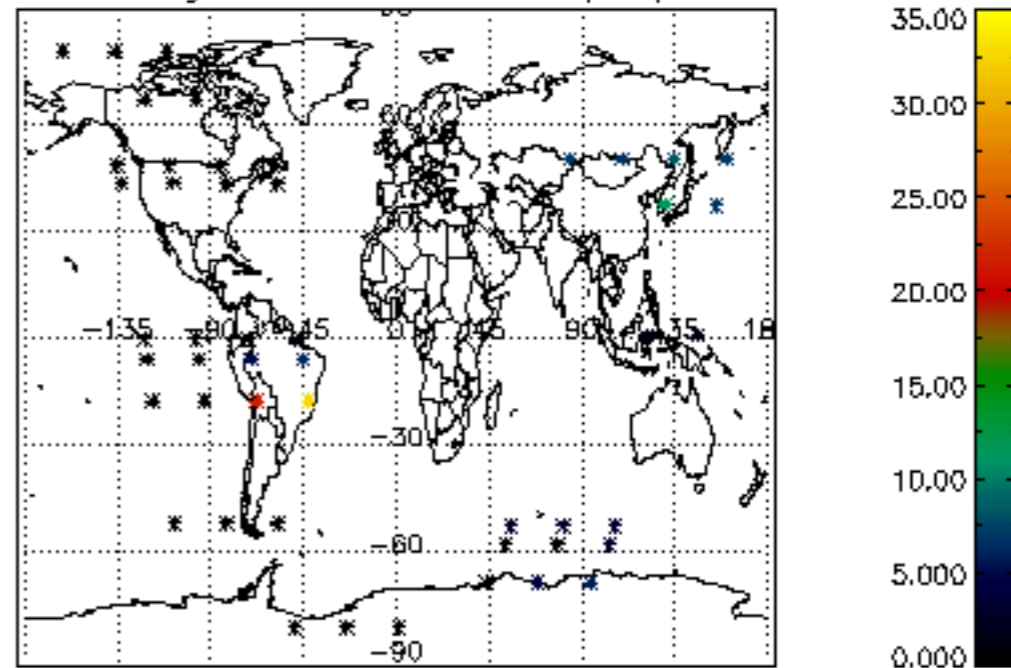
Percentage of datation errors per profile



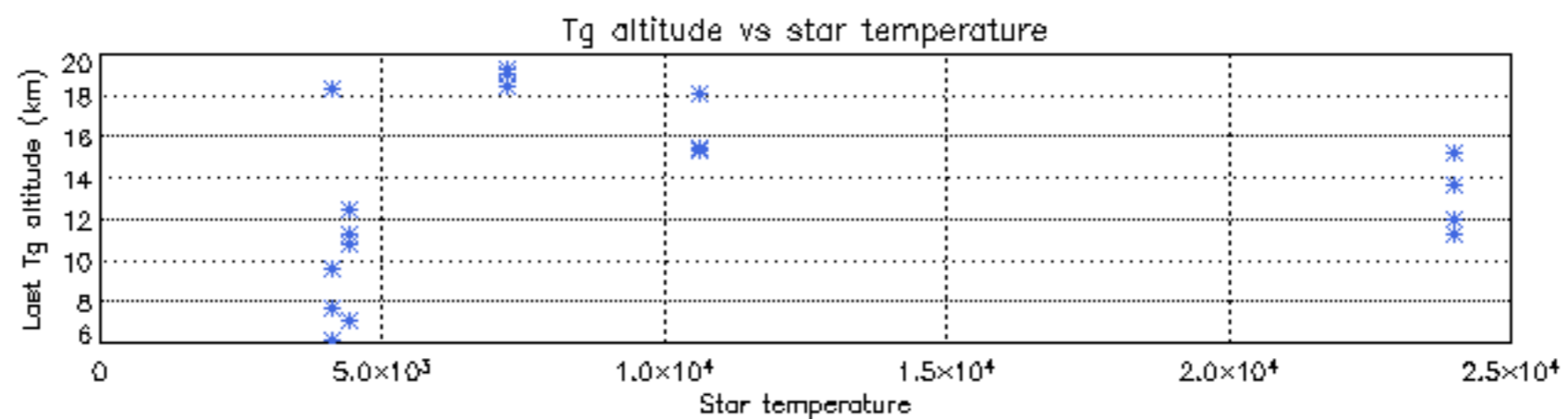
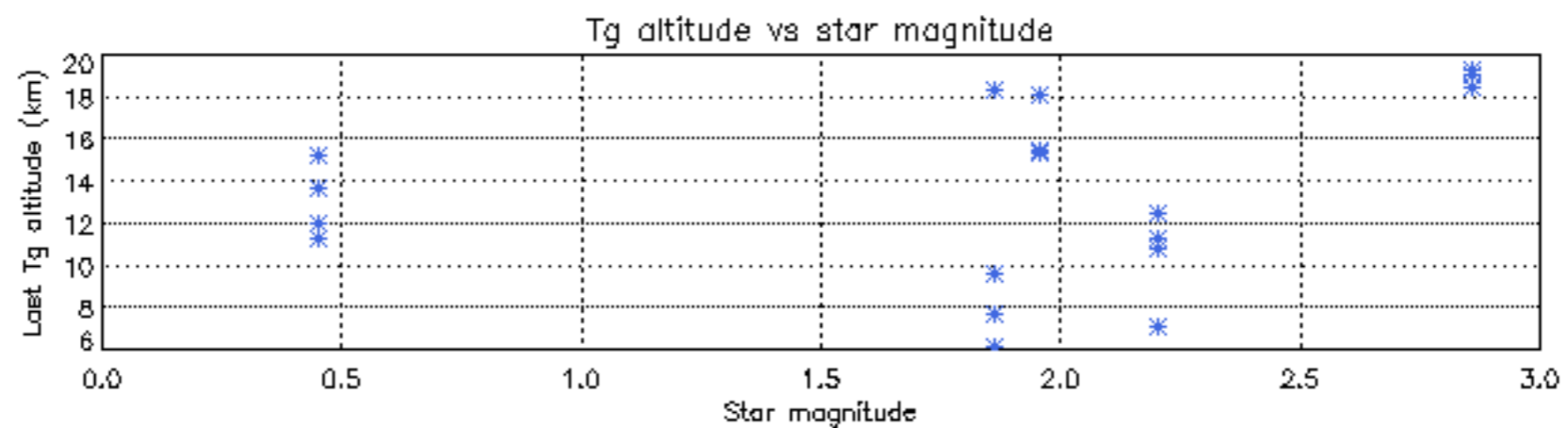
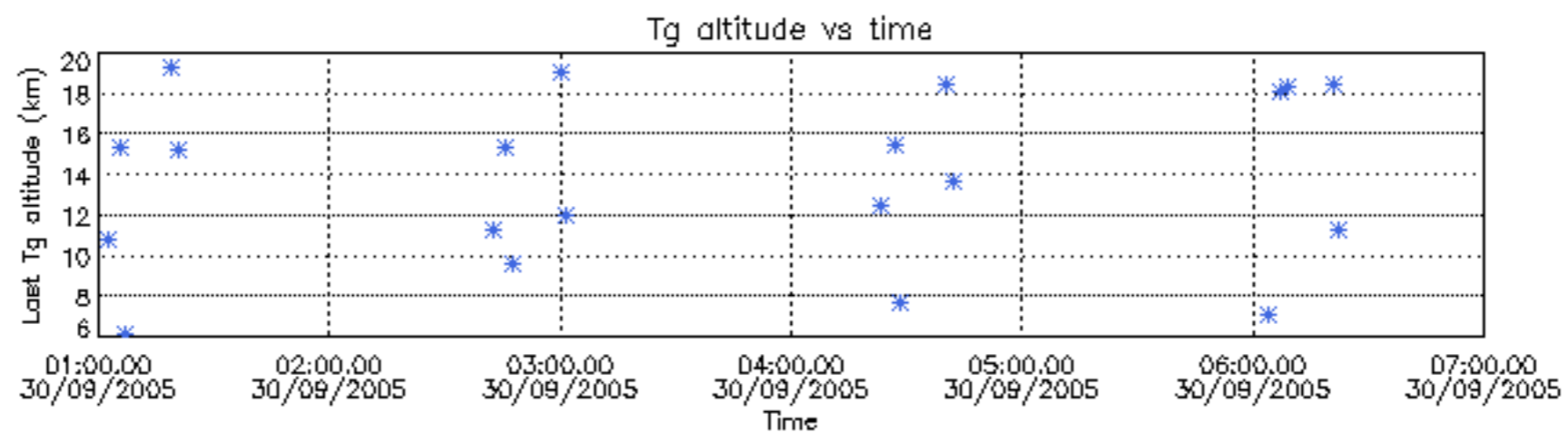
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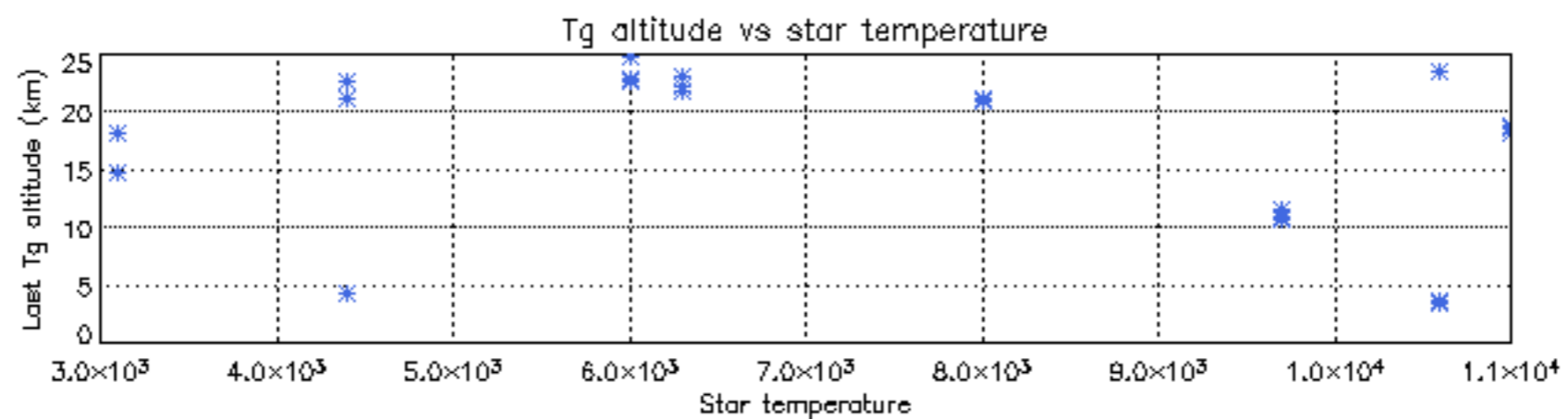
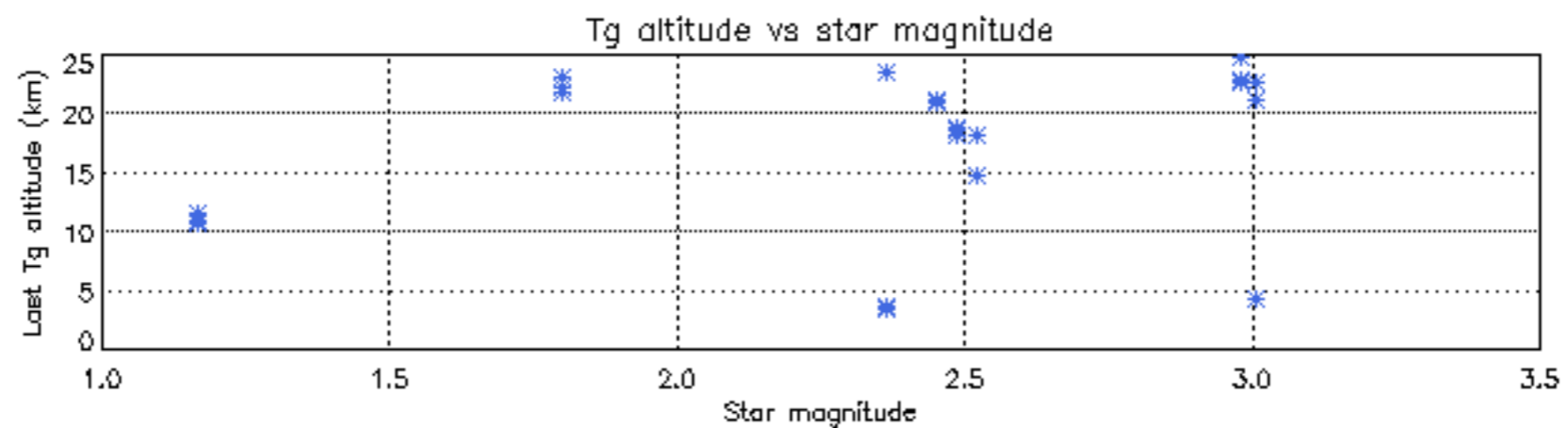
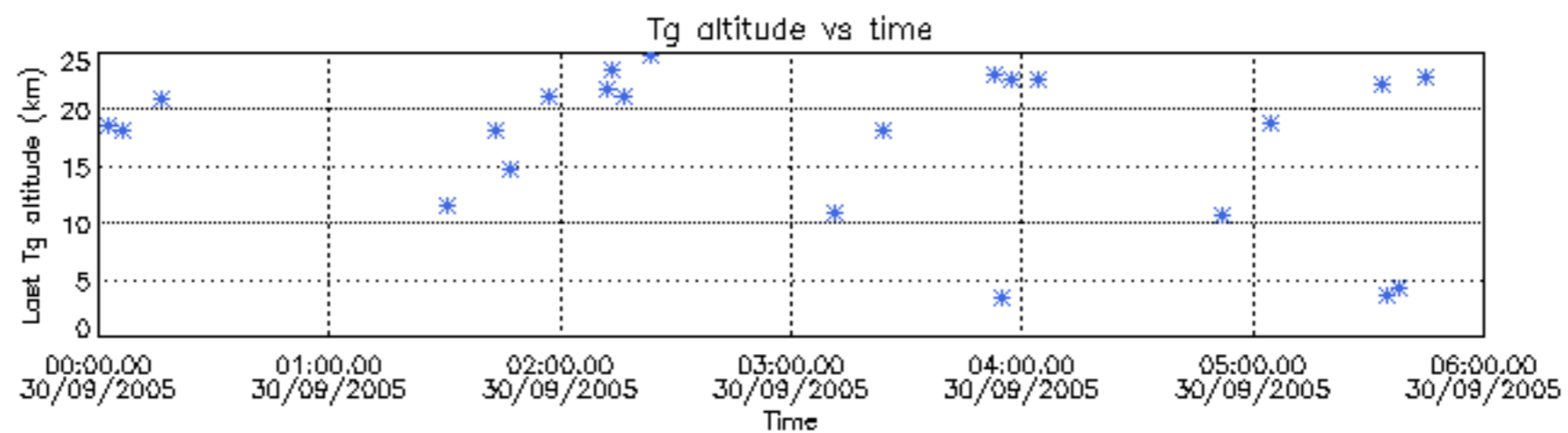
Percentage of saturation errors per profile



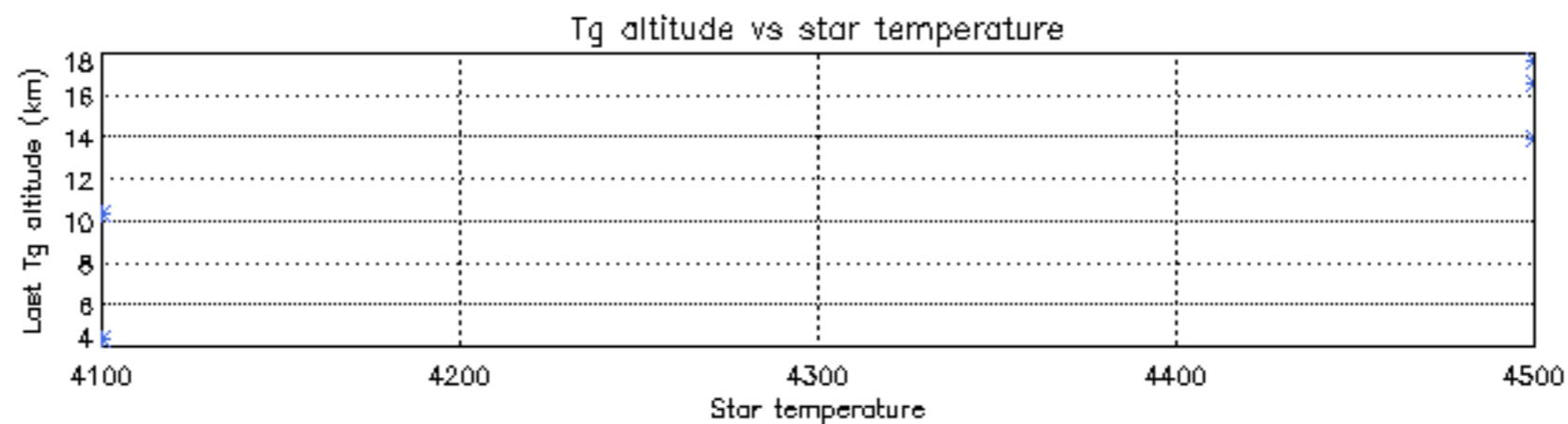
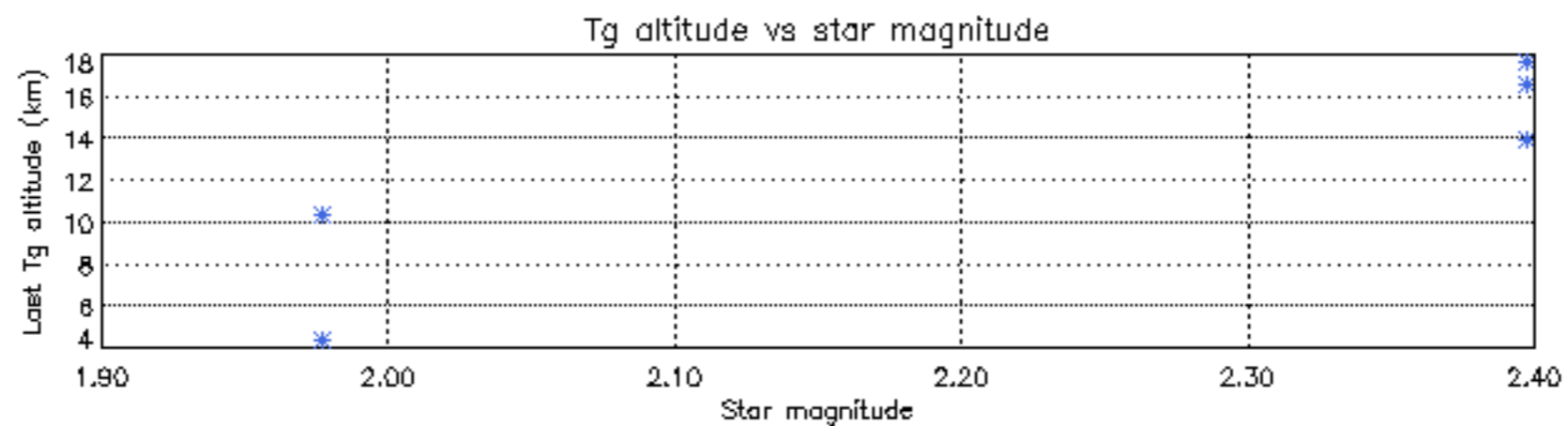
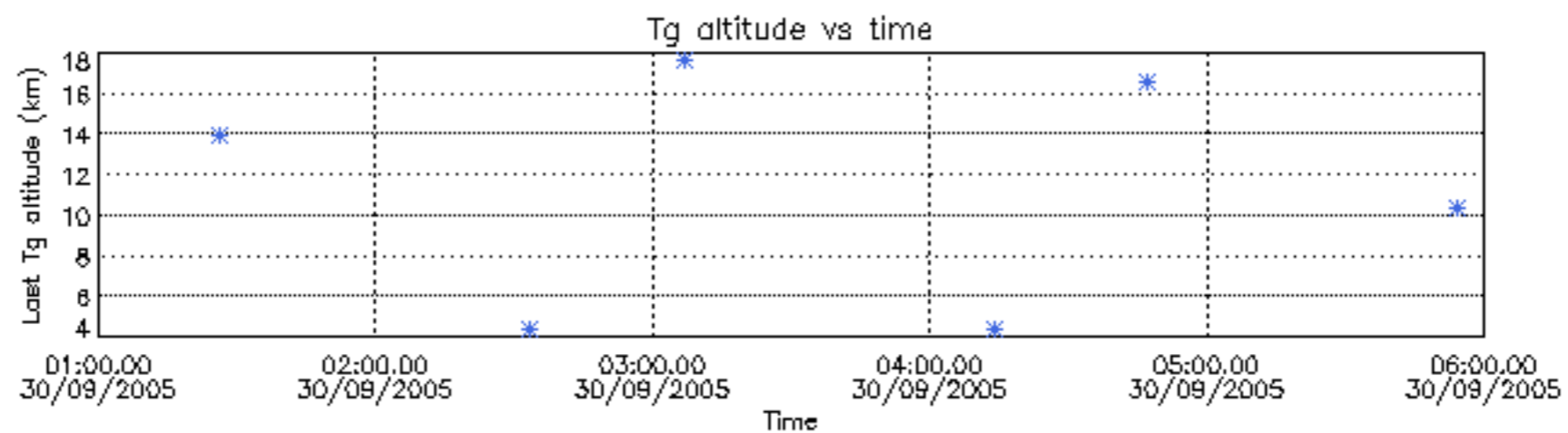
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost




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