

GOMOS Daily Report 19-SEP-2004

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	21SEP2004 05:01:38
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (19SEP2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20SEP2004 00:00:00)

Store outputs flag	0
Nb of level 1b prods	49
Nb of prods with errors	0

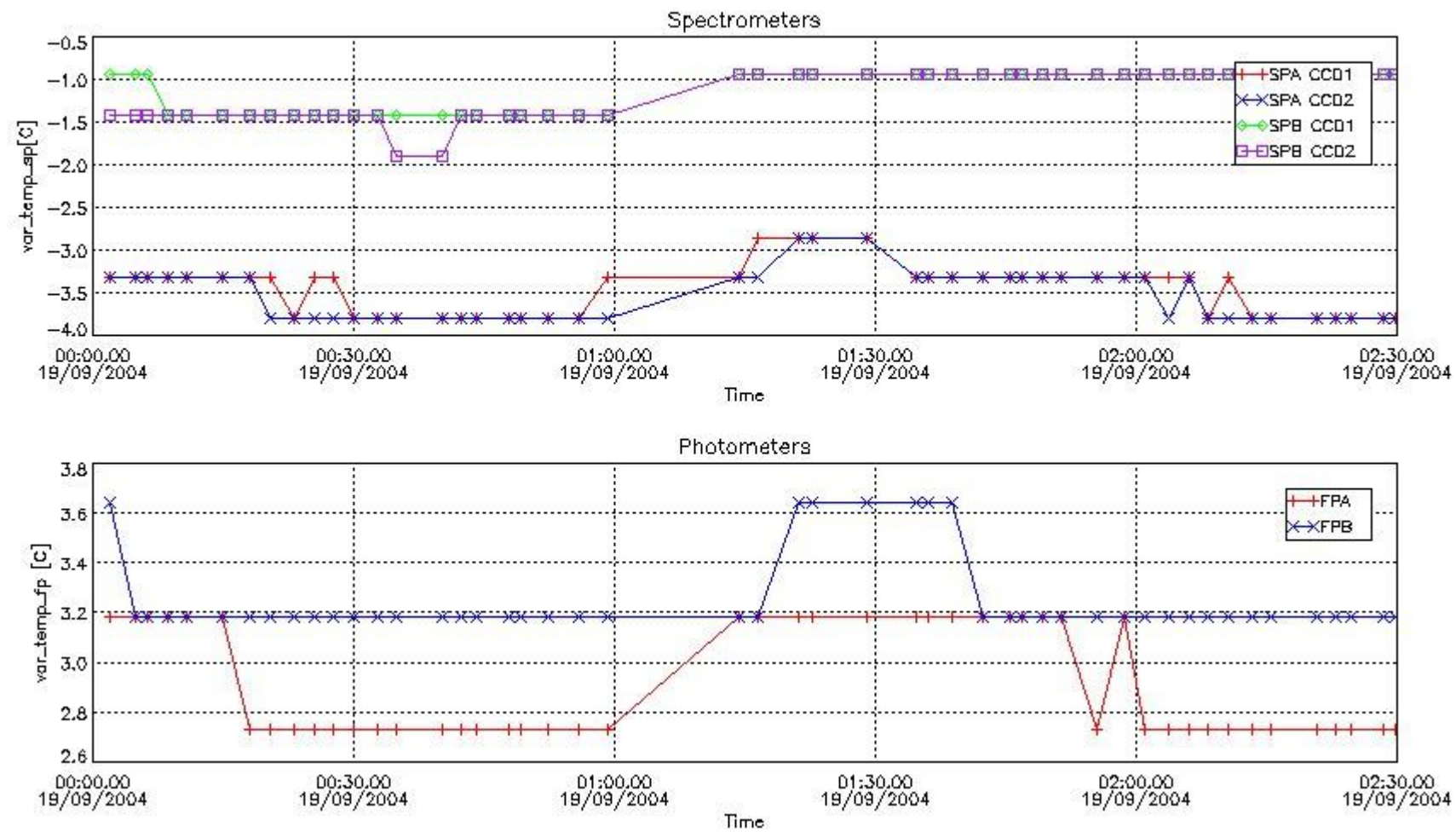
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040919_000200_000000412030_00274_13354_0008.N1	19-SEP-2004 00:02:00	Twilight	40.500	31	Alp Gru	1.7340	15200.	81	13354	No
GOM_TRA_1PNPDE20040919_000448_000000402030_00274_13354_0009.N1	19-SEP-2004 00:04:48	Bright	39.500	172	Gam Gru	3.0030	13100.	79	13354	No
GOM_TRA_1PNPDE20040919_000613_000000512030_00274_13354_0010.N1	19-SEP-2004 00:06:13	Bright	50.500	18	24Alp PsA	1.1660	9700.0	101	13354	No
GOM_TRA_1PNPDE20040919_000839_000000602030_00274_13354_0011.N1	19-SEP-2004 00:08:39	Bright	60.000	52	16Bet Cet	2.0370	4500.0	120	13354	No
GOM_TRA_1PNPDE20040919_001046_000000412030_00274_13354_0012.N1	19-SEP-2004 00:10:46	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	13354	No
GOM_TRA_1PNPDE20040919_001457_000000402030_00274_13354_0013.N1	19-SEP-2004 00:14:57	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13354	No
GOM_TRA_1PNPDE20040919_001758_000000402030_00274_13354_0014.N1	19-SEP-2004 00:17:58	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	13354	No
GOM_TRA_1PNPDE20040919_002028_000000482030_00274_13354_0015.N1	19-SEP-2004 00:20:28	Bright	47.500	140	88Gam Peg	2.8340	26000.	95	13354	No
GOM_TRA_1PNPDE20040919_002306_000000392030_00274_13354_0016.N1	19-SEP-2004 00:23:06	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	13354	No
GOM_TRA_1PNPDE20040919_002525_000000372030_00274_13354_0017.N1	19-SEP-2004 00:25:25	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	13354	No
GOM_TRA_1PNPDE20040919_002734_000000402030_00274_13354_0018.N1	19-SEP-2004 00:27:34	Bright	40.000	66	37Gam Cyg	2.2080	5900.0	80	13354	No
GOM_TRA_1PNPDE20040919_002958_000000612030_00274_13354_0019.N1	19-SEP-2004 00:29:58	Bright	60.500	53	43Bet And	2.0480	3300.0	121	13354	No
GOM_TRA_1PNPDE20040919_003241_000000382030_00274_13354_0020.N1	19-SEP-2004 00:32:41	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	13354	No
GOM_TRA_1PNPDE20040919_003454_000000432030_00274_13354_0021.N1	19-SEP-2004 00:34:54	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	13354	No
GOM_TRA_1PNPDE20040919_004016_000000342030_00274_13354_0022.N1	19-SEP-2004 00:40:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	13354	No
GOM_TRA_1PNPDE20040919_004217_000000662030_00274_13354_0023.N1	19-SEP-2004 00:42:17	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	13354	No
GOM_TRA_1PNPDE20040919_004410_000000722030_00274_13354_0024.N1	19-SEP-2004 00:44:10	Bright	71.500	175	39Del Per	3.0100	19400.	143	13354	No
GOM_TRA_1PNPDE20040919_004746_000000392030_00274_13354_0025.N1	19-SEP-2004 00:47:46	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13354	No
GOM_TRA_1PNPDE20040919_004913_000000502030_00274_13354_0026.N1	19-SEP-2004 00:49:13	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	13354	No
GOM_TRA_1PNPDE20040919_005220_000000392030_00274_13354_0027.N1	19-SEP-2004 00:52:20	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13354	No
GOM_TRA_1PNPDE20040919_005555_000000692030_00274_13354_0028.N1	19-SEP-2004 00:55:55	Bright	69.000	107	37The Aur	2.6490	11000.	138	13354	No
GOM_TRA_1PNPDE20040919_005908_000000502030_00274_13354_0029.N1	19-SEP-2004 00:59:08	Twilight	50.000	17	78Bet Gem	1.1610	4500.0	100	13354	No
GOM_TRA_1PNPDE20040919_011419_000000452030_00274_13354_0000.N1	19-SEP-2004 01:14:19	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	13354	No
GOM_TRA_1PNPDE20040919_011629_000000762030_00274_13354_0001.N1	19-SEP-2004 01:16:29	Dark	75.500	1	9Alp CMa	-1.4400	11000.	151	13354	No
GOM_TRA_1PNPDE20040919_012115_000000412030_00274_13354_0002.N1	19-SEP-2004 01:21:15	Dark	41.000	46	Del Vel	1.9540	10600.	82	13354	No
GOM_TRA_1PNPDE20040919_012249_000000462030_00274_13354_0003.N1	19-SEP-2004 01:22:49	Dark	46.000	41	Eps Car	1.8600	4100.0	92	13354	No
GOM_TRA_1PNPDE20040919_012900_000002302030_00275_13355_0004.N1	19-SEP-2004 01:29:00	Dark	230.00	7	19Bet Ori	0.10000	14000.	460	13355	No
GOM_TRA_1PNPDE20040919_013441_000000422030_00275_13355_0005.N1	19-SEP-2004 01:34:41	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	13355	No
GOM_TRA_1PNPDE20040919_013606_000000492030_00275_13355_0006.N1	19-SEP-2004 01:36:06	Dark	49.000	9	Alp Eri	0.45300	24000.	98	13355	No
GOM_TRA_1PNPDE20040919_013852_000000442030_00275_13355_0007.N1	19-SEP-2004 01:38:52	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	13355	No
GOM_TRA_1PNPDE20040919_014217_000000442030_00275_13355_0008.N1	19-SEP-2004 01:42:17	Twilight	44.000	63	Bet Gru	2.1500	2800.0	88	13355	No
GOM_TRA_1PNPDE20040919_014524_000000402030_00275_13355_0009.N1	19-SEP-2004 01:45:24	Bright	39.500	172	Gam Gru	3.0030	13100.	79	13355	No
GOM_TRA_1PNPDE20040919_014651_000000472030_00275_13355_0010.N1	19-SEP-2004 01:46:51	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13355	No
GOM_TRA_1PNPDE20040919_014914_000000562030_00275_13355_0011.N1	19-SEP-2004 01:49:14	Bright	55.500	52	16Bet Cet	2.0370	4500.0	111	13355	No
GOM_TRA_1PNPDE20040919_015123_000000402030_00275_13355_0012.N1	19-SEP-2004 01:51:23	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	13355	No
GOM_TRA_1PNPDE20040919_015533_000000402030_00275_13355_0013.N1	19-SEP-2004 01:55:33	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13355	No
GOM_TRA_1PNPDE20040919_015832_000000422030_00275_13355_0014.N1	19-SEP-2004 01:58:32	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	13355	No
GOM_TRA_1PNPDE20040919_020103_000000492030_00275_13355_0015.N1	19-SEP-2004 02:01:03	Bright	48.500	140	88Gam Peg	2.8340	26000.	97	13355	No
GOM_TRA_1PNPDE20040919_020341_000000402030_00275_13355_0016.N1	19-SEP-2004 02:03:41	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	13355	No
GOM_TRA_1PNPDE20040919_020600_000000402030_00275_13355_0017.N1	19-SEP-2004 02:06:00	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	13355	No
GOM_TRA_1PNPDE20040919_020811_000000412030_00275_13355_0018.N1	19-SEP-2004 02:08:11	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	13355	No
GOM_TRA_1PNPDE20040919_021033_000000562030_00275_13355_0019.N1	19-SEP-2004 02:10:33	Bright	55.500	53	43Bet And	2.0480	3300.0	111	13355	No
GOM_TRA_1PNPDE20040919_021316_000000382030_00275_13355_0020.N1	19-SEP-2004 02:13:16	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13355	No
GOM_TRA_1PNPDE20040919_021530_000000402030_00275_13355_0021.N1	19-SEP-2004 02:15:30	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	13355	No
GOM_TRA_1PNPDE20040919_022051_000000362030_00275_13355_0022.N1	19-SEP-2004 02:20:51	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	13355	No
GOM_TRA_1PNPDE20040919_022252_000000442030_00275_13355_0023.N1	19-SEP-2004 02:22:52	Twilight	43.500	35	33Alp Per	1.7950	6250.0	87	13355	No
GOM_TRA_1PNPDE20040919_022445_000000712030_00275_13355_0001.N1	19-SEP-2004 02:24:45	Bright	70.500	175	39Del Per	3.0100	19400.	141	13355	No
GOM_TRA_1PNPDE20040919_022822_000000382030_00275_13355_0002.N1	19-SEP-2004 02:28:22	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13355	No
GOM_TRA_1PNPDE20040919_022949_000000382030_00275_13355_0003.N1	19-SEP-2004 02:29:49	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13355	No

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



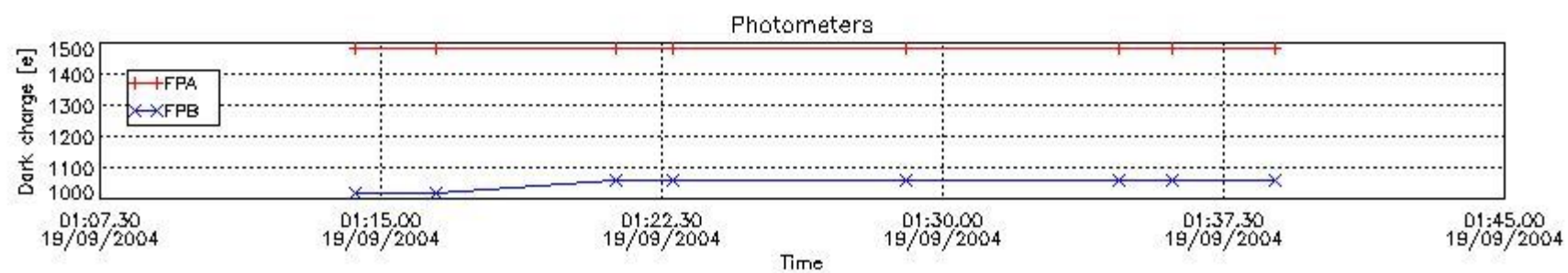
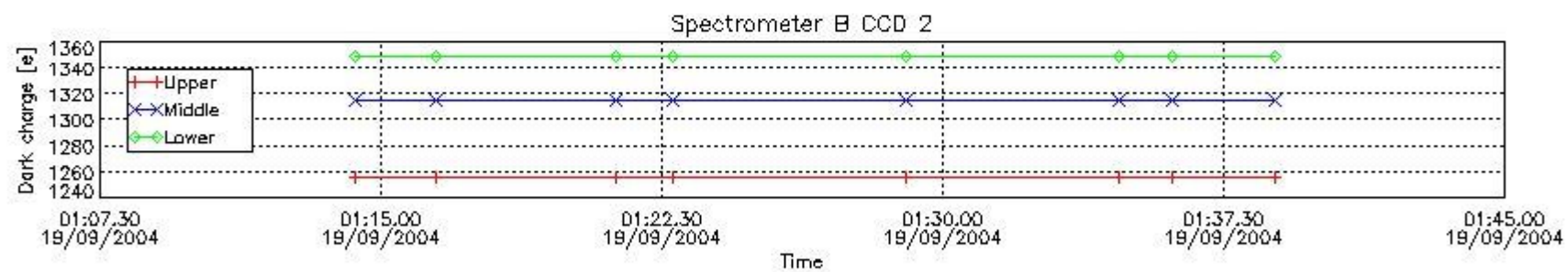
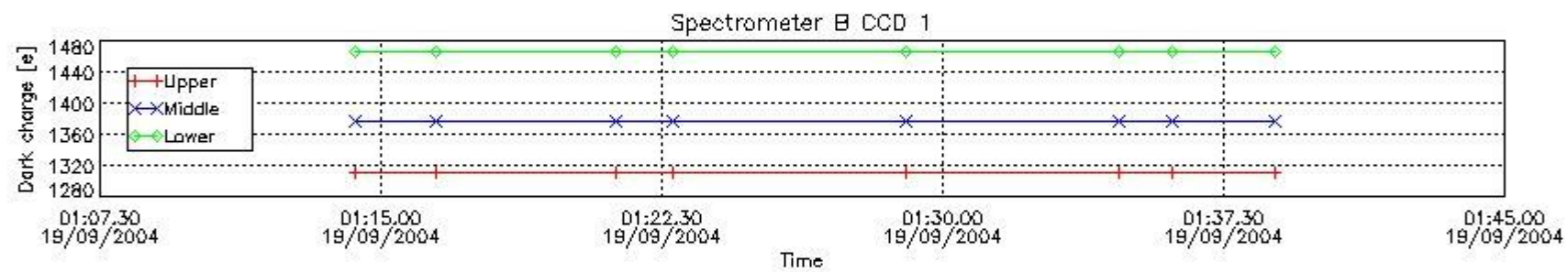
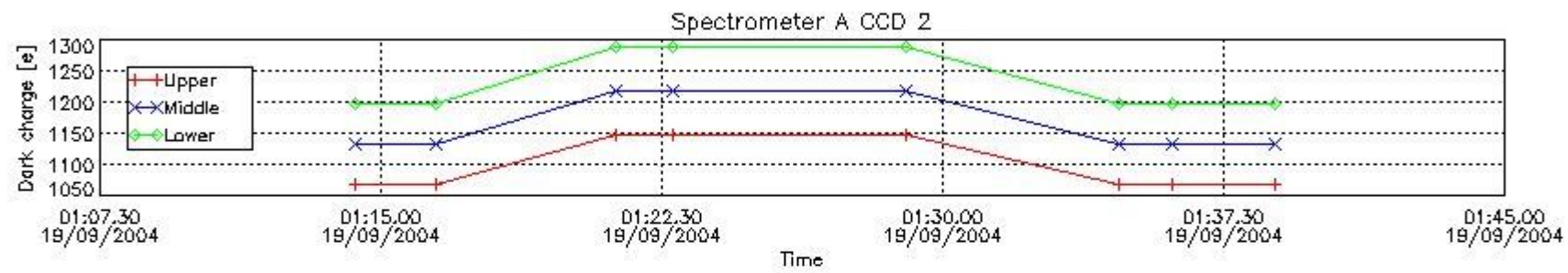
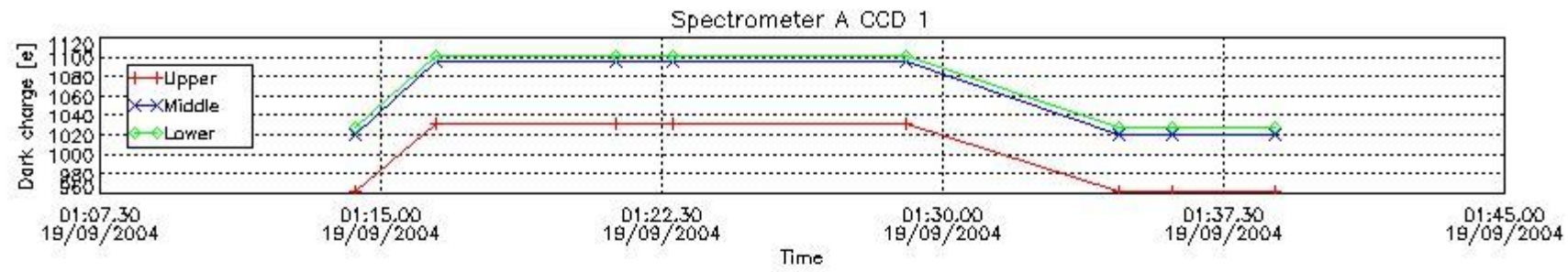
4. Overview of dark signal processing per product

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



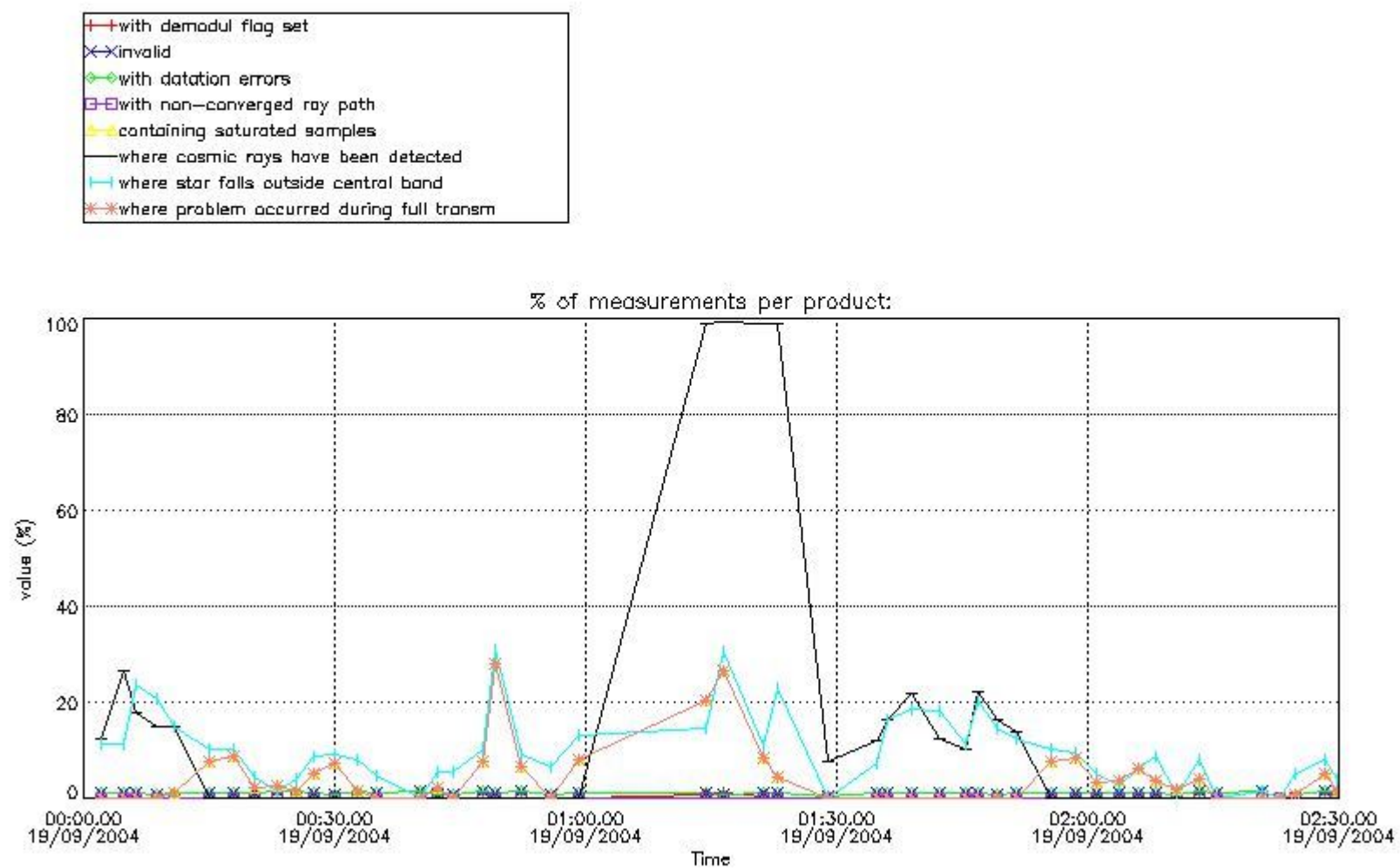
5. Demodulation flag and quality information monitoring

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.

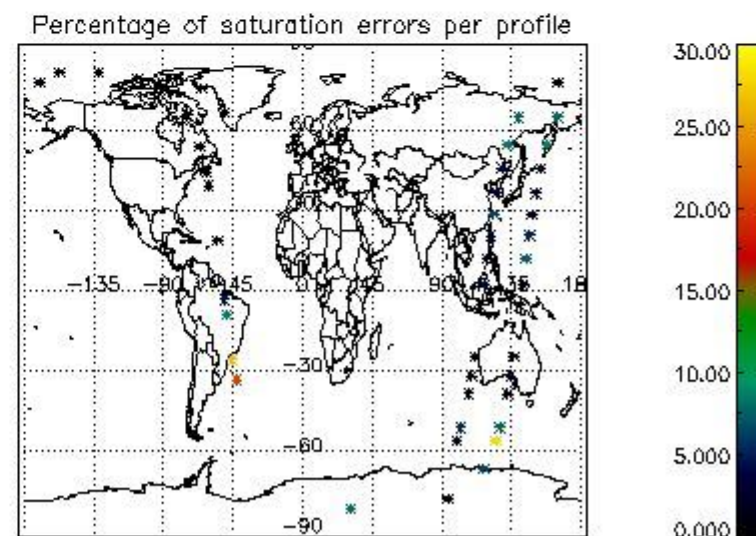
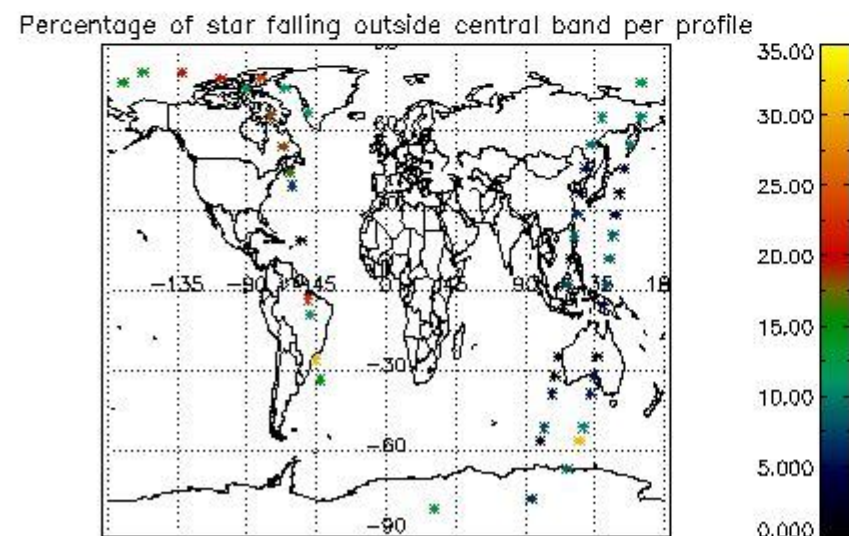
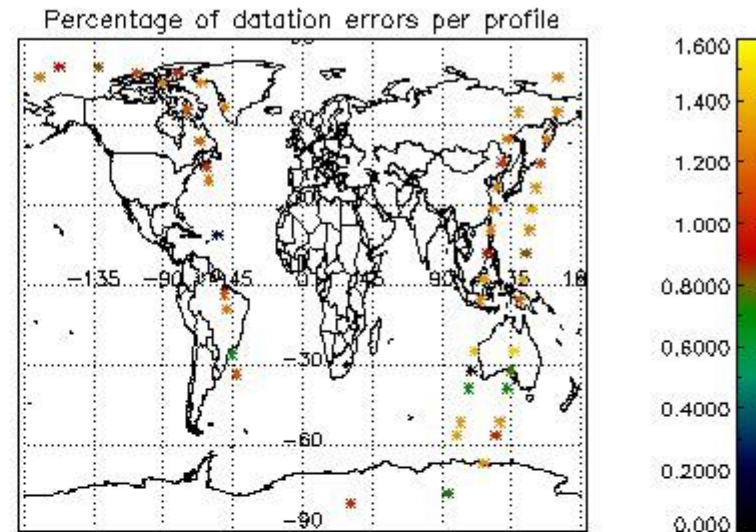
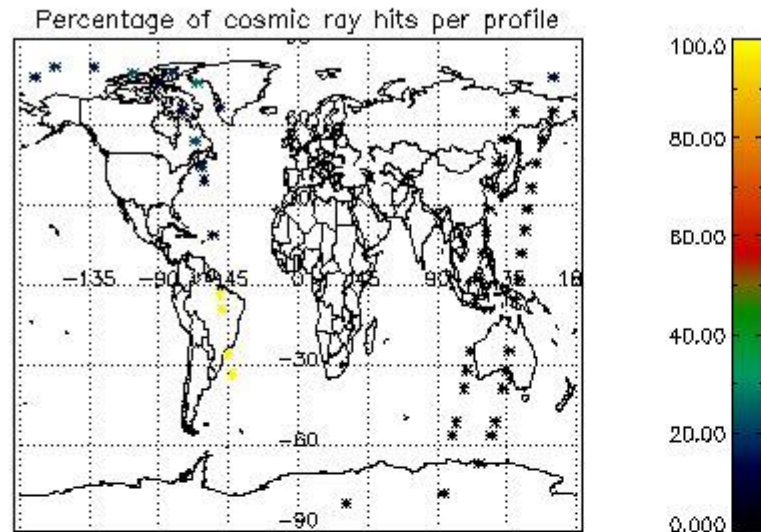
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	8.16327 %
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)



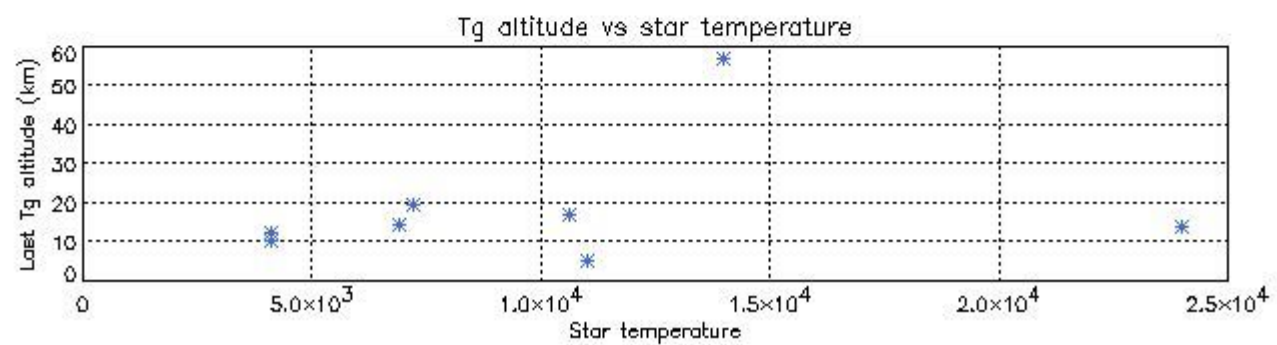
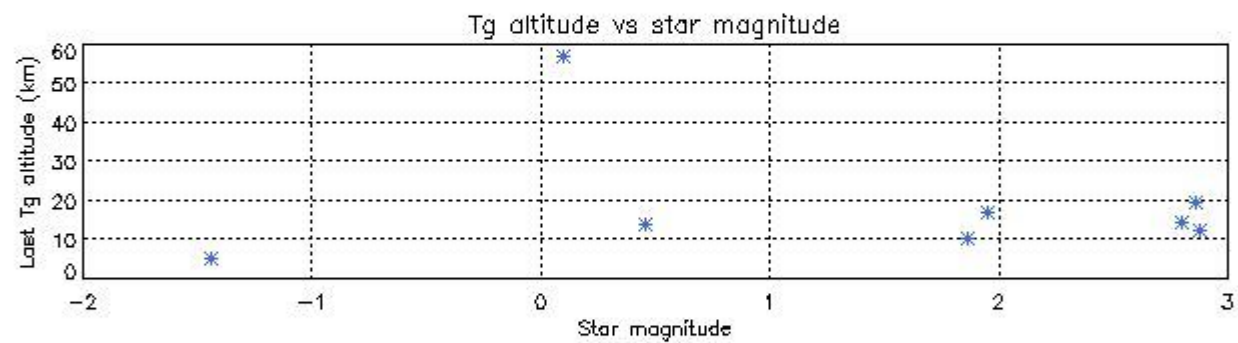
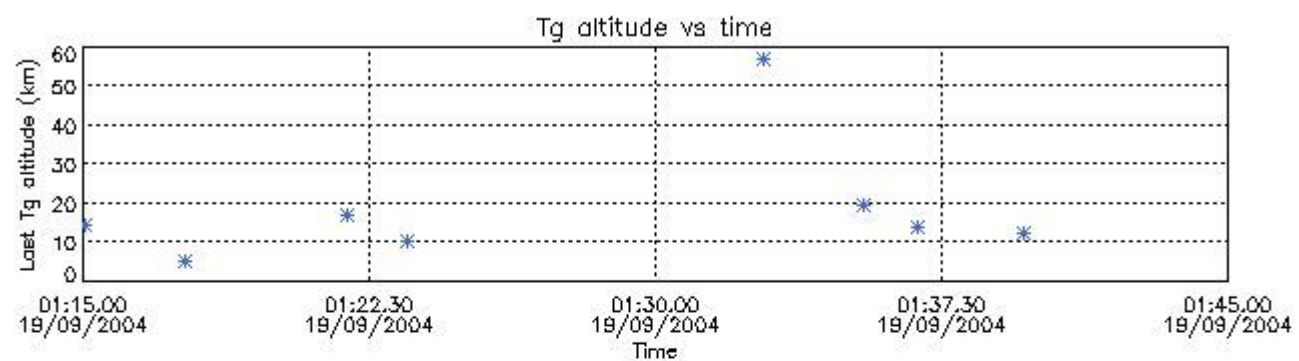
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.711	19.229	25.204
St. deviation:	15.995	4.9371	20.602
Maximum:	56.873	29.376	55.997
Minimum:	5.2304	6.4643	12.864
Number of data:	8.0000	37.000	4.0000

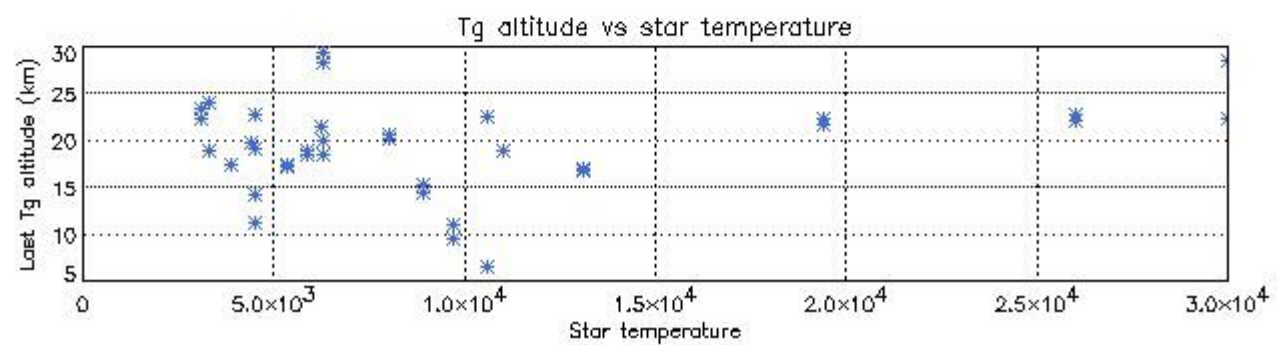
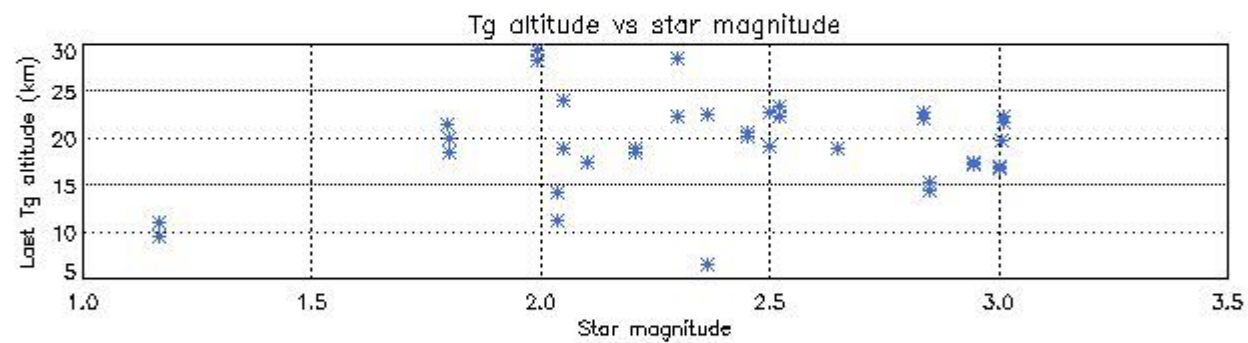
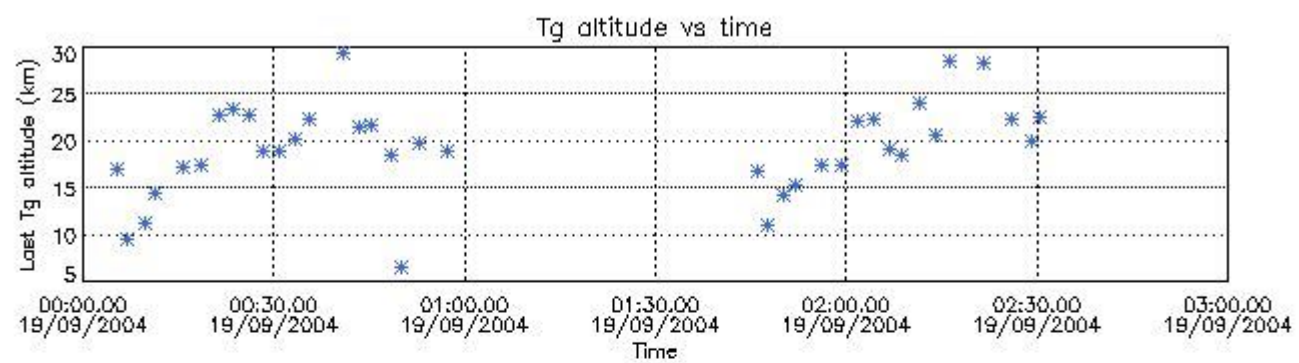
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



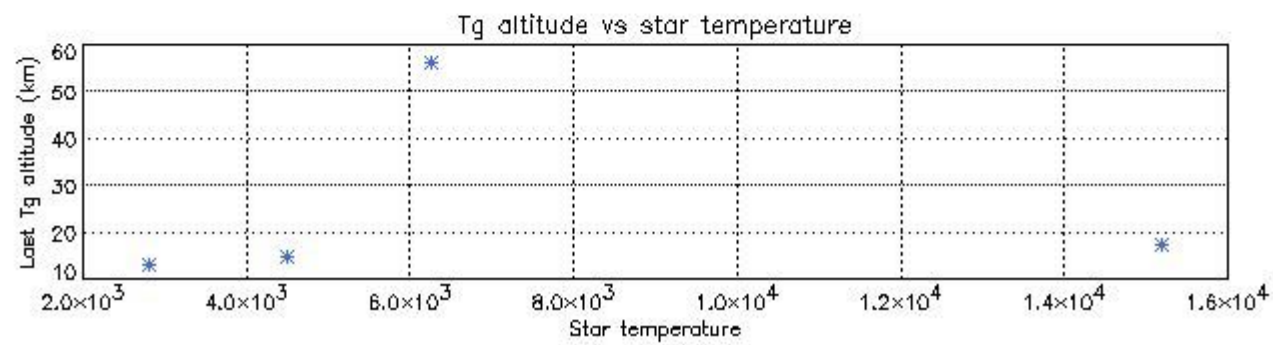
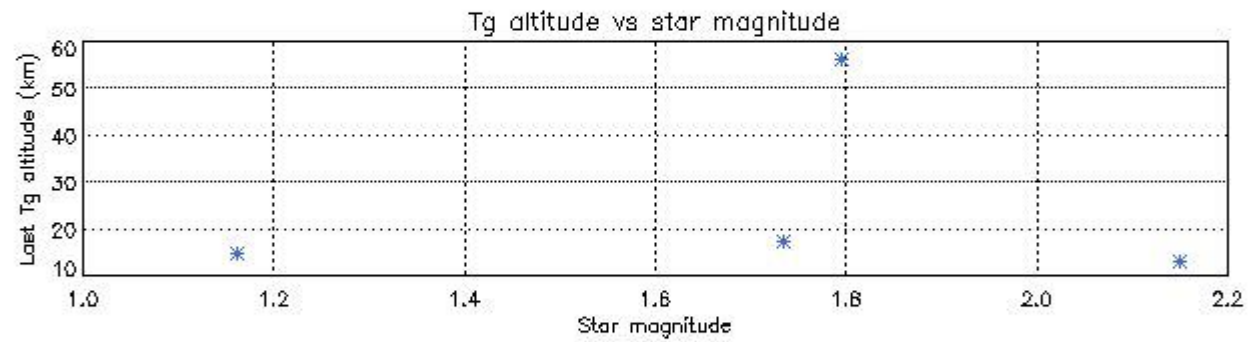
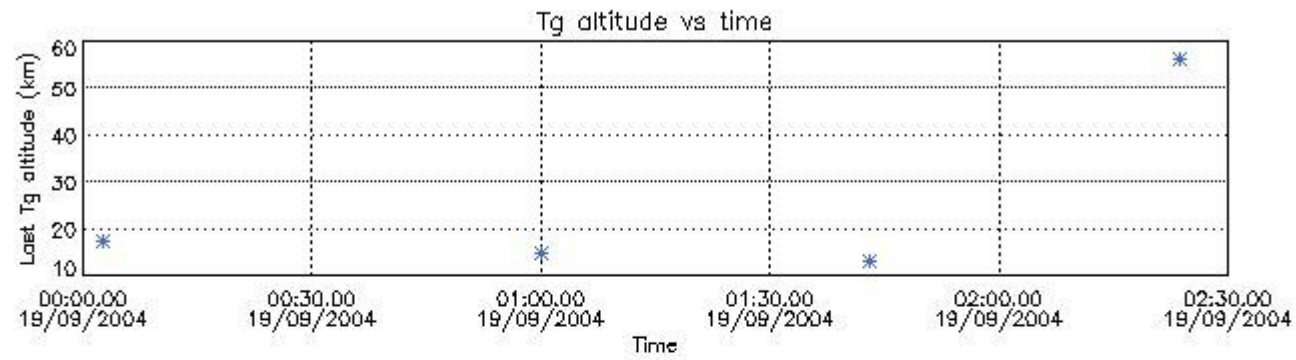
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

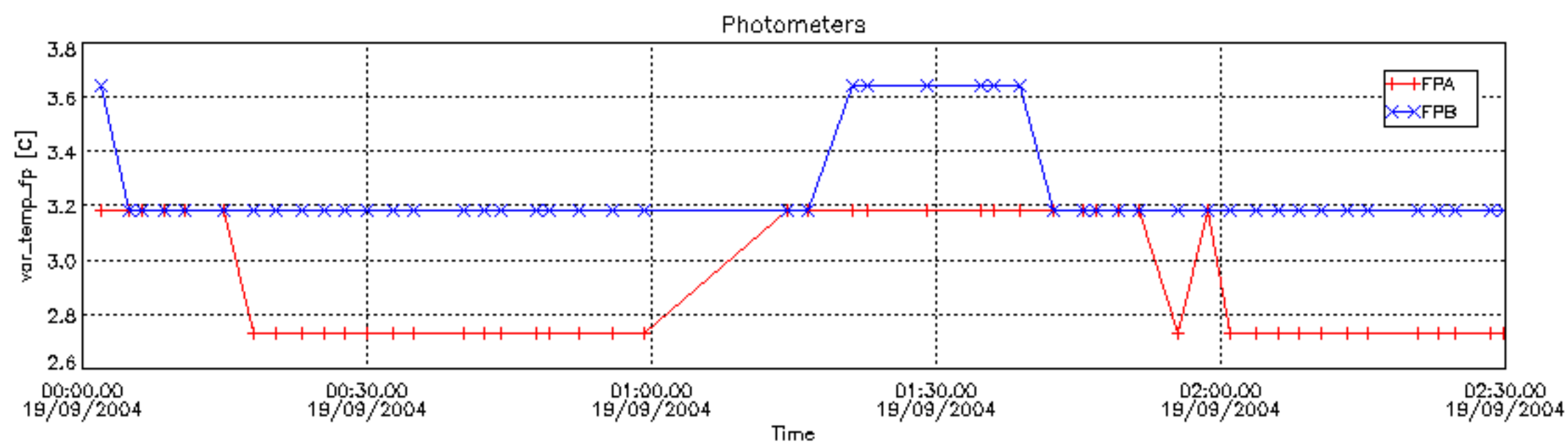
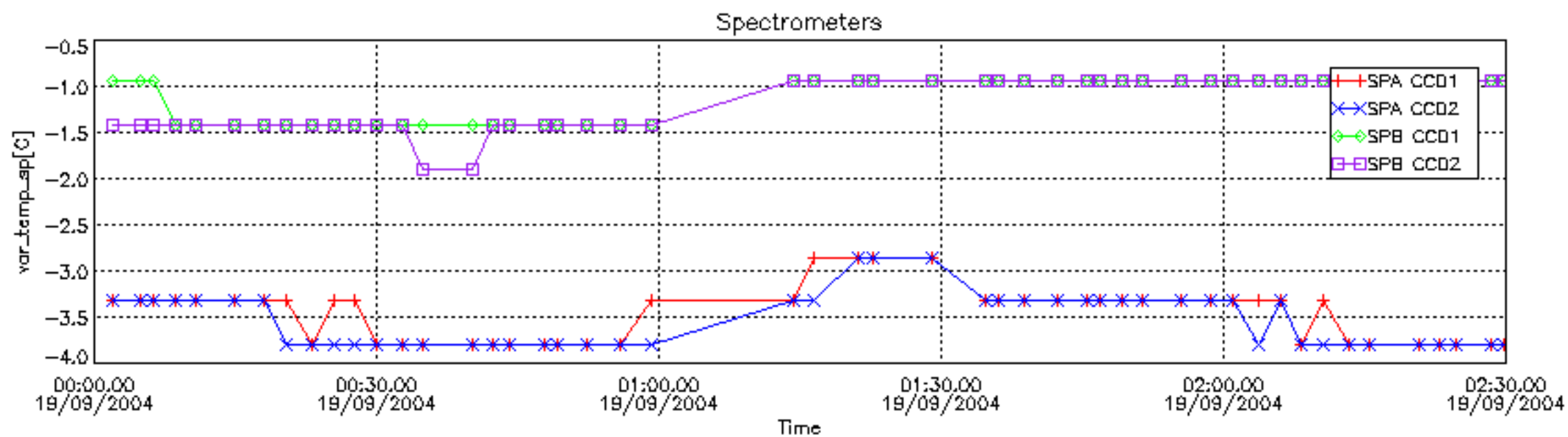
Tangent altitude at which the star is lost

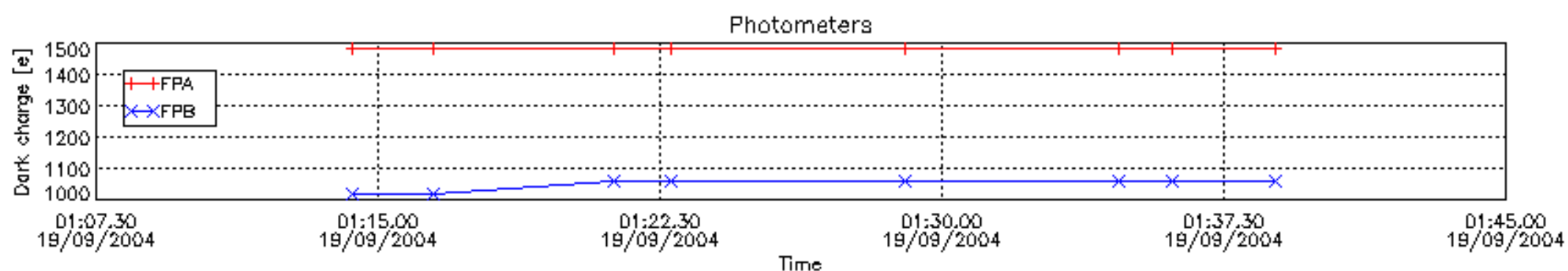
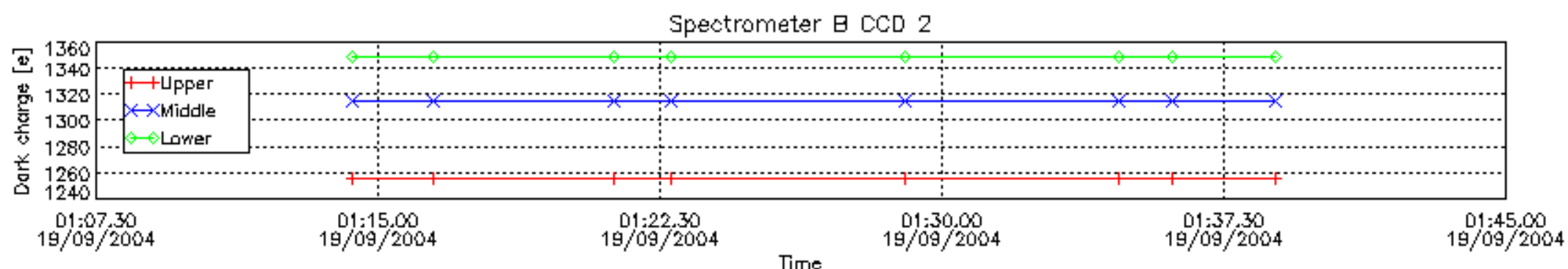
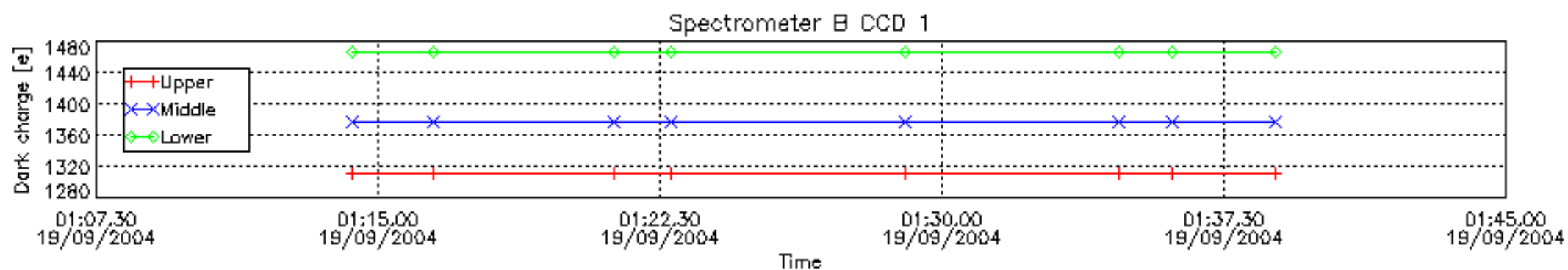
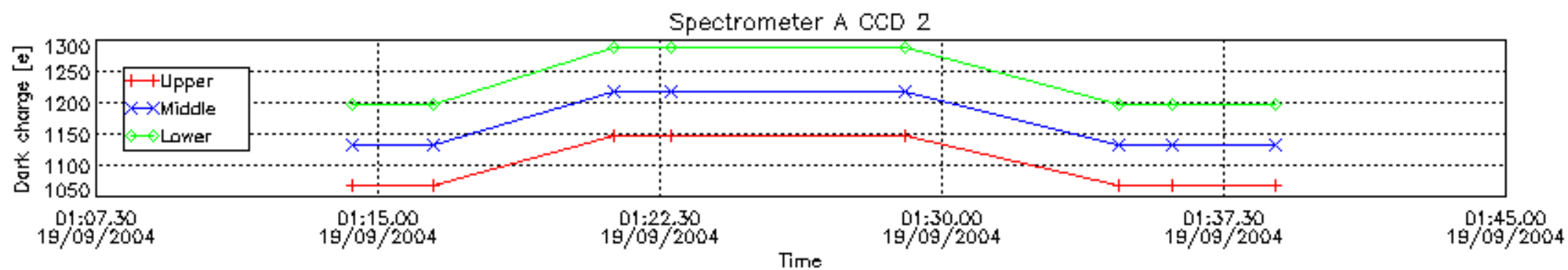
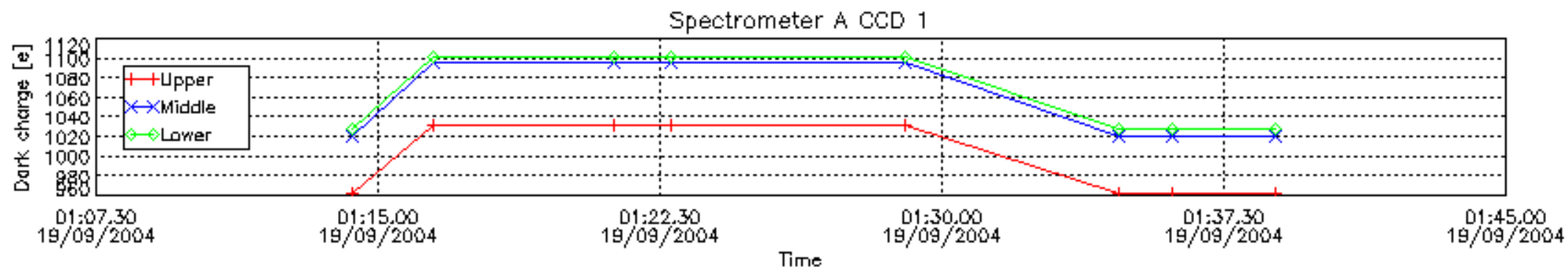


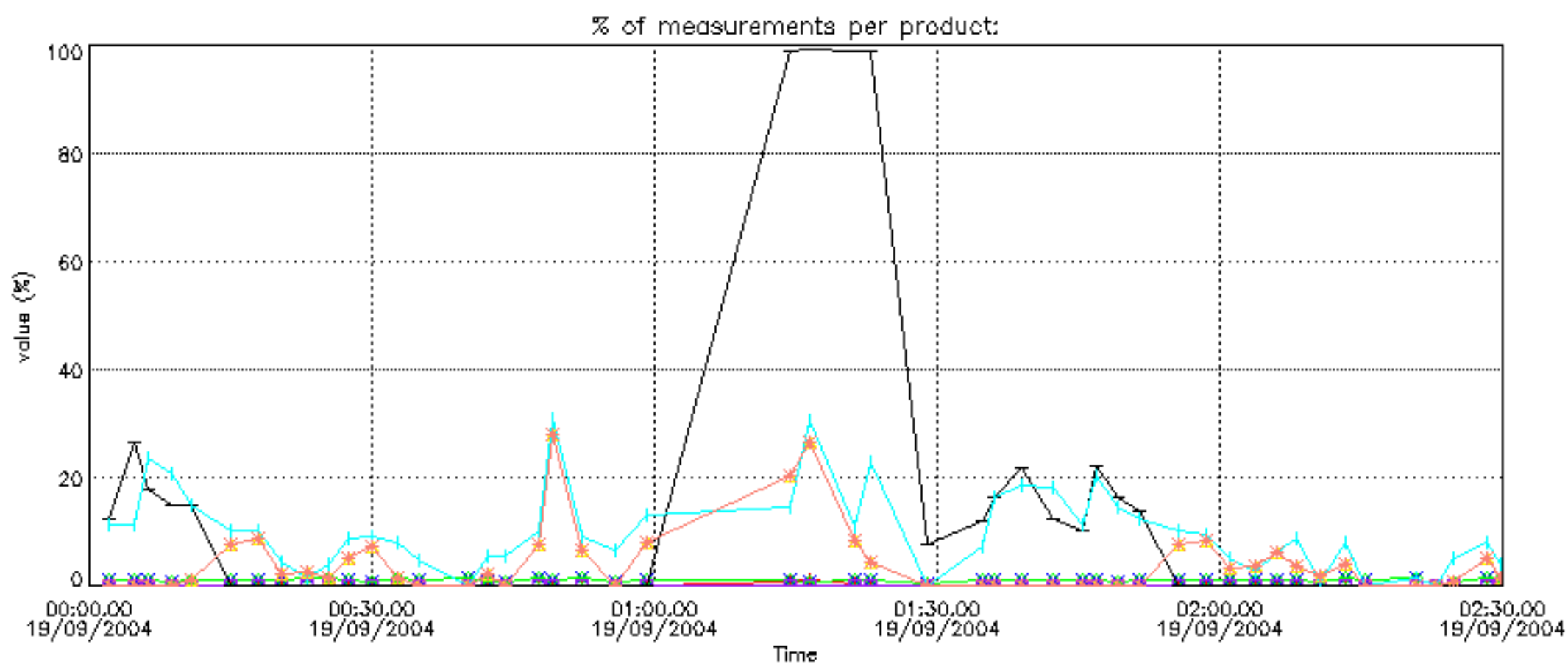
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

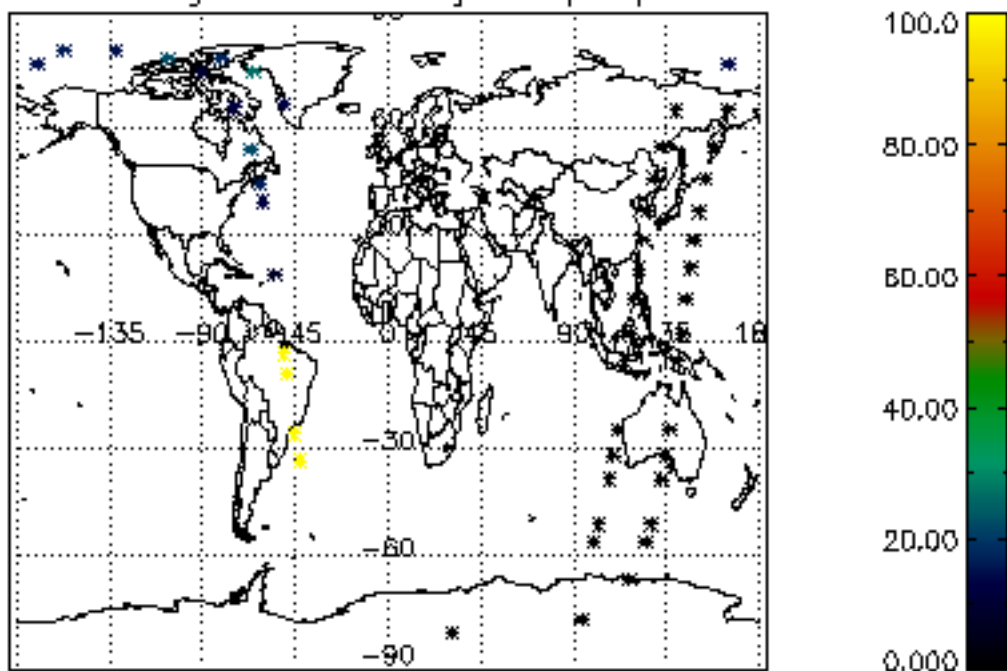
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.5	1460.8	1447.3
St. deviation:	4.2003	5.6240	7.1716	8.2171
Maximum:	1489.0	1600.0	1521.0	1525.0
Minimum:	1446.0	1433.0	1420.0	1414.0
Number of data:	15300.	15300.	44150.	44150.



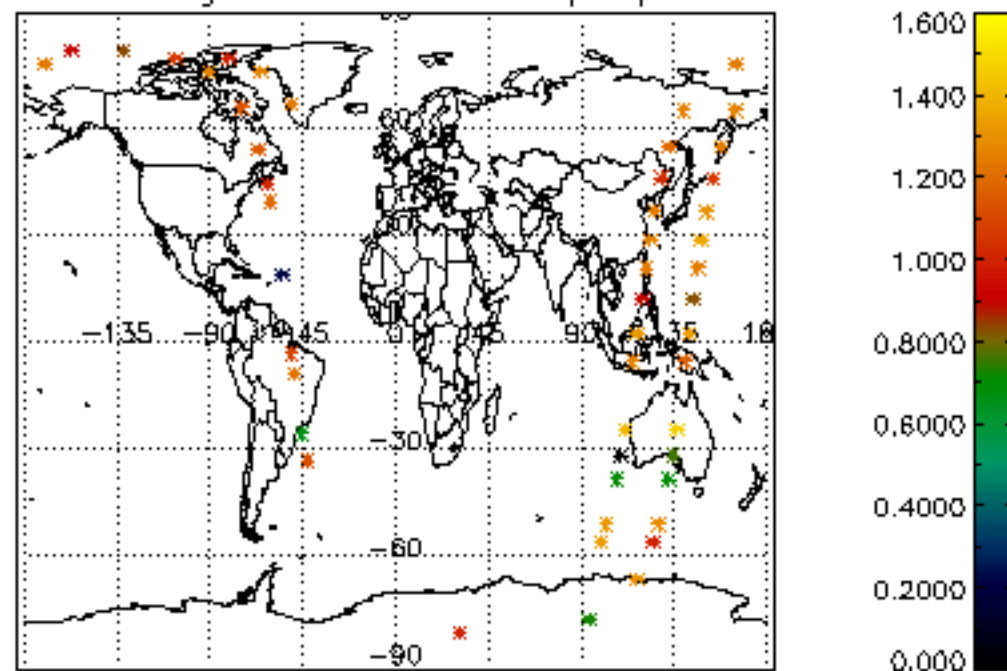




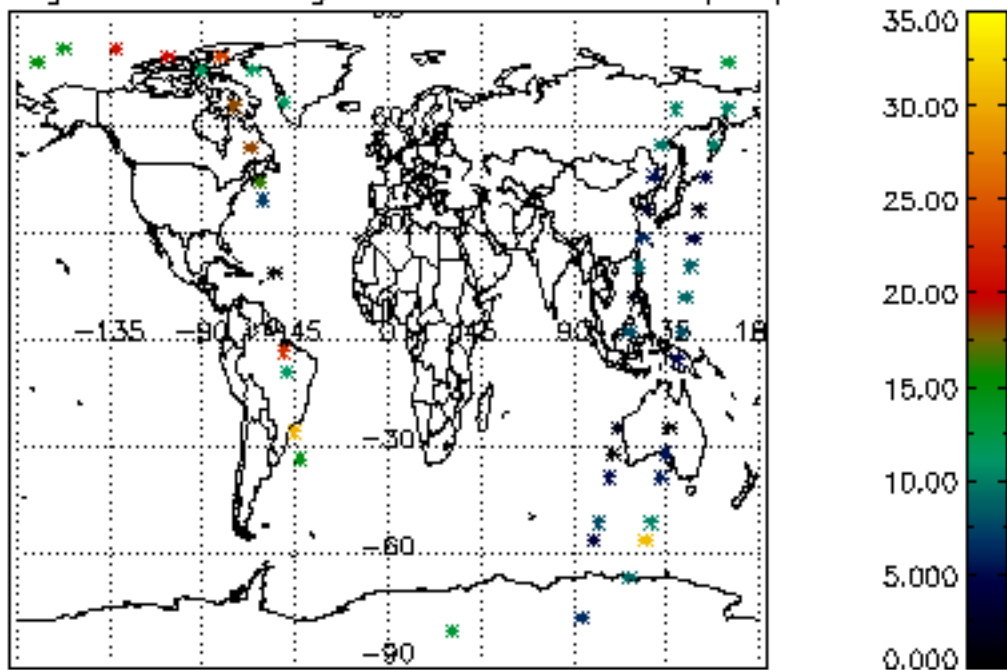
Percentage of cosmic ray hits per profile



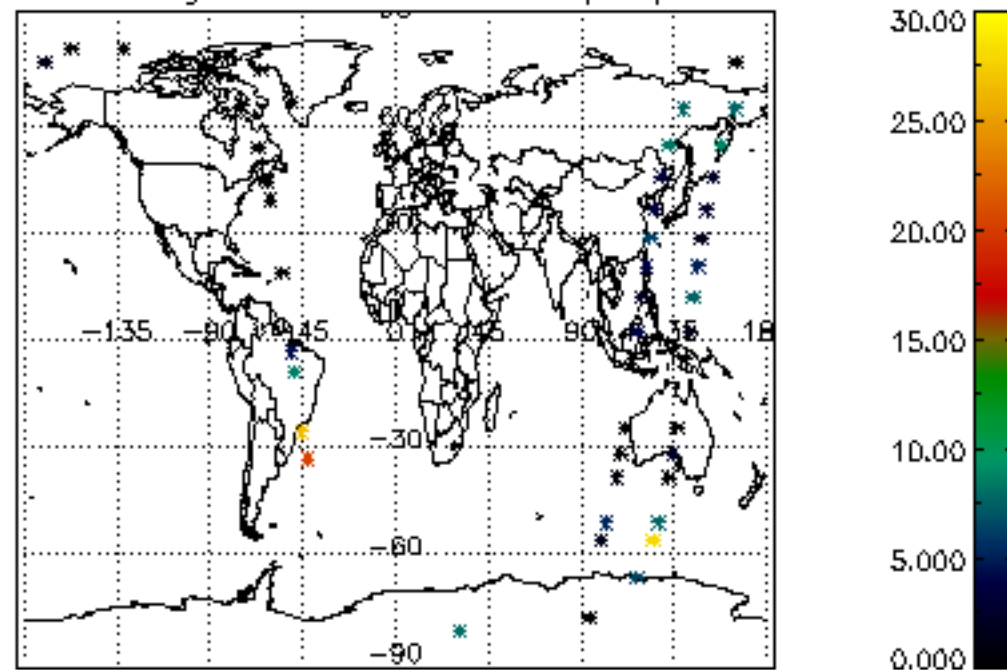
Percentage of datation errors per profile



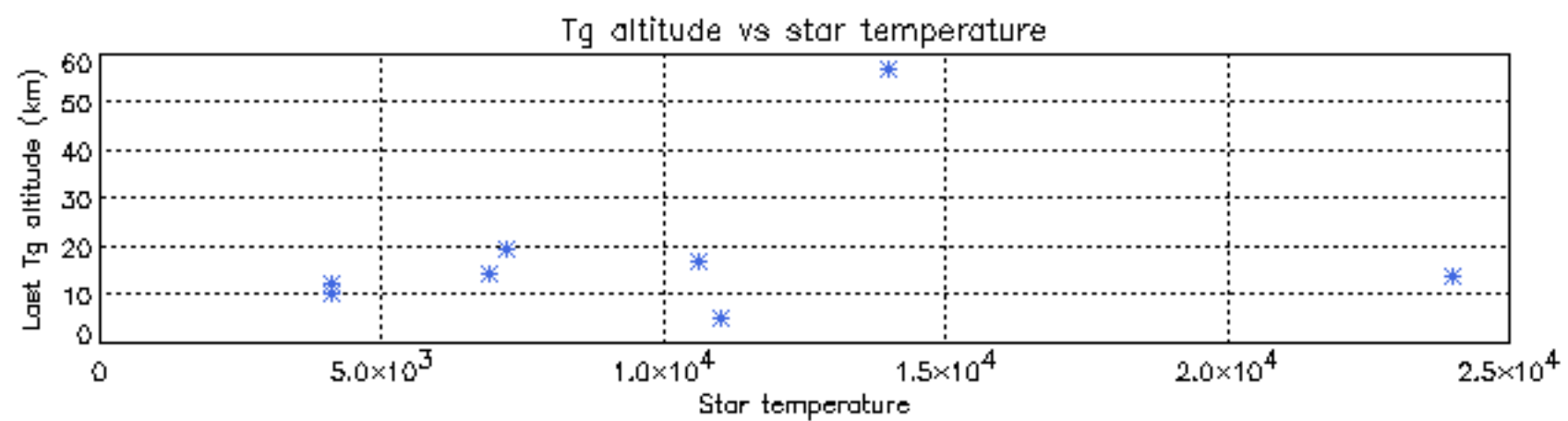
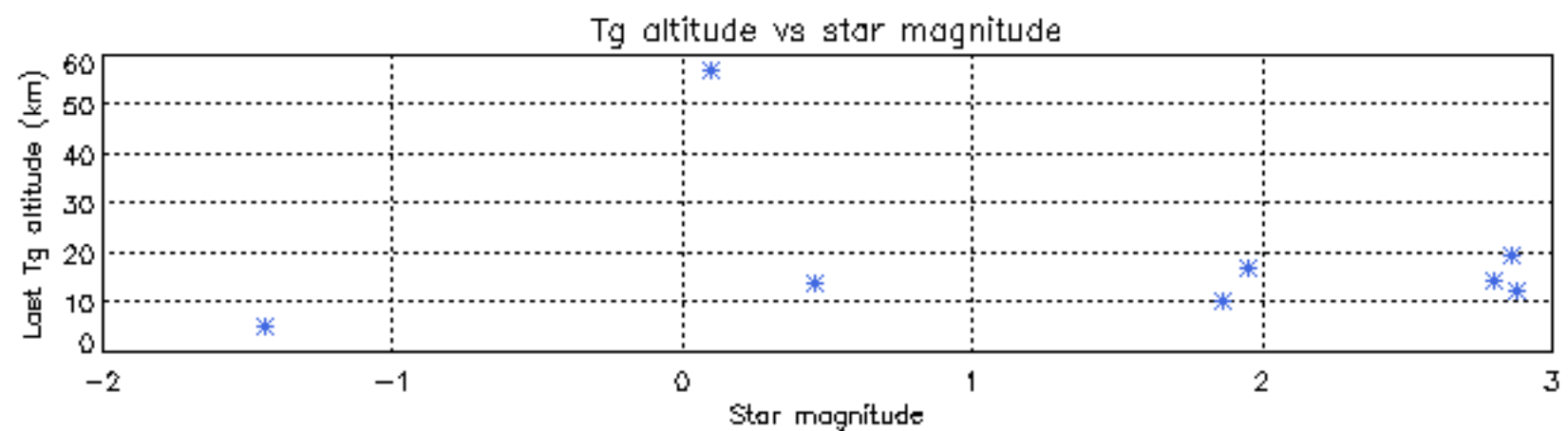
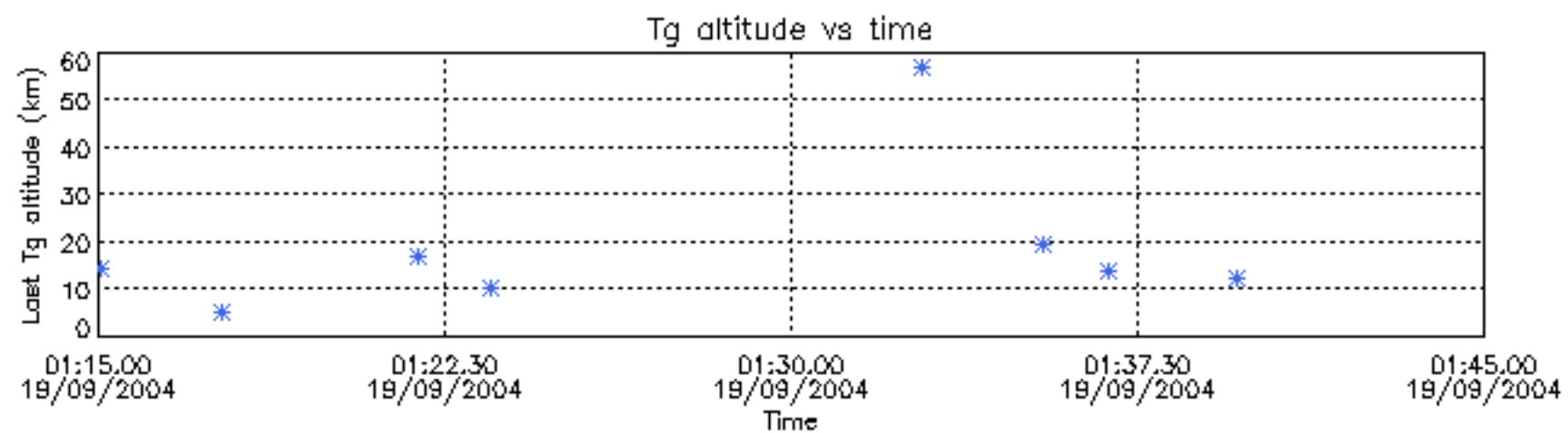
Percentage of star falling outside central band per profile



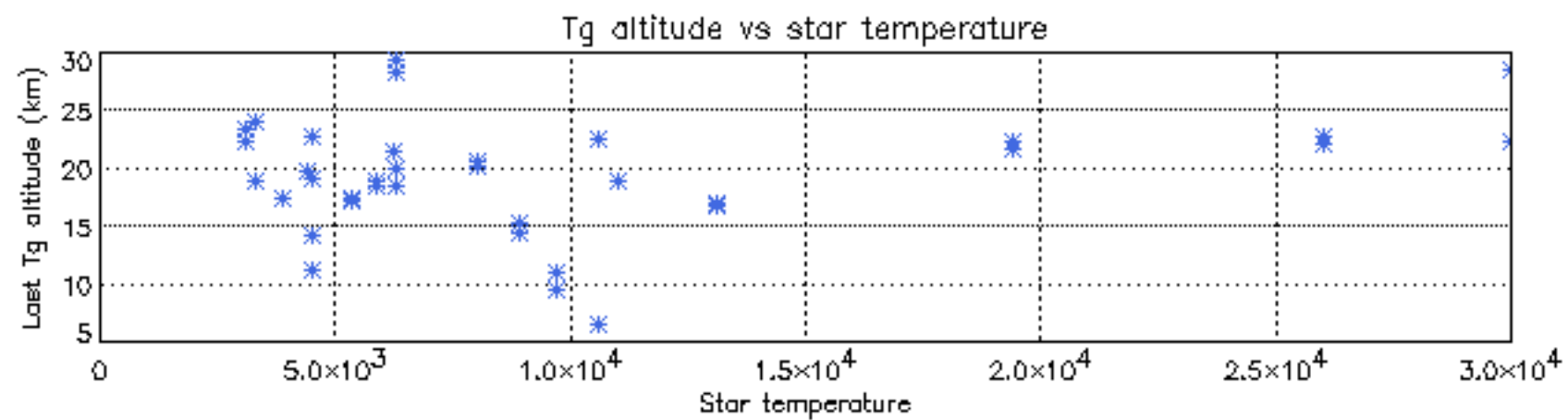
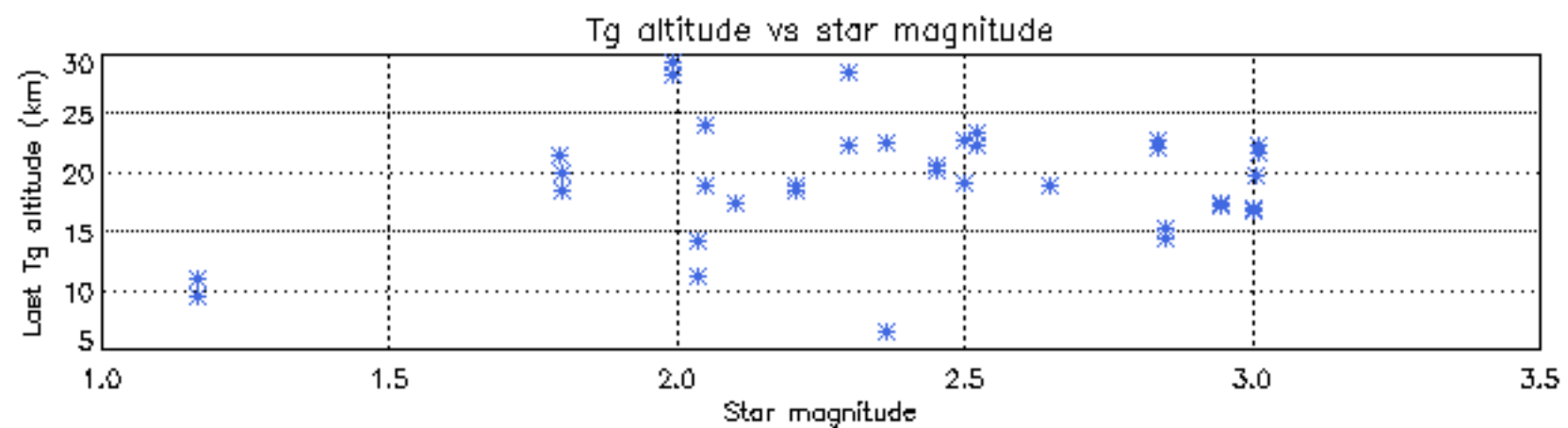
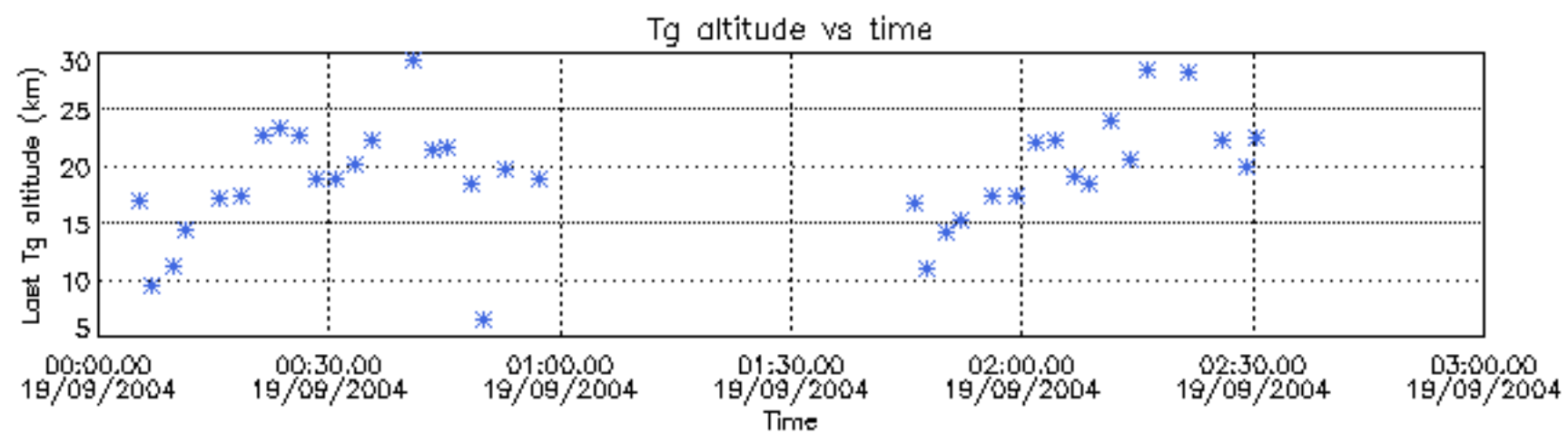
Percentage of saturation errors per profile



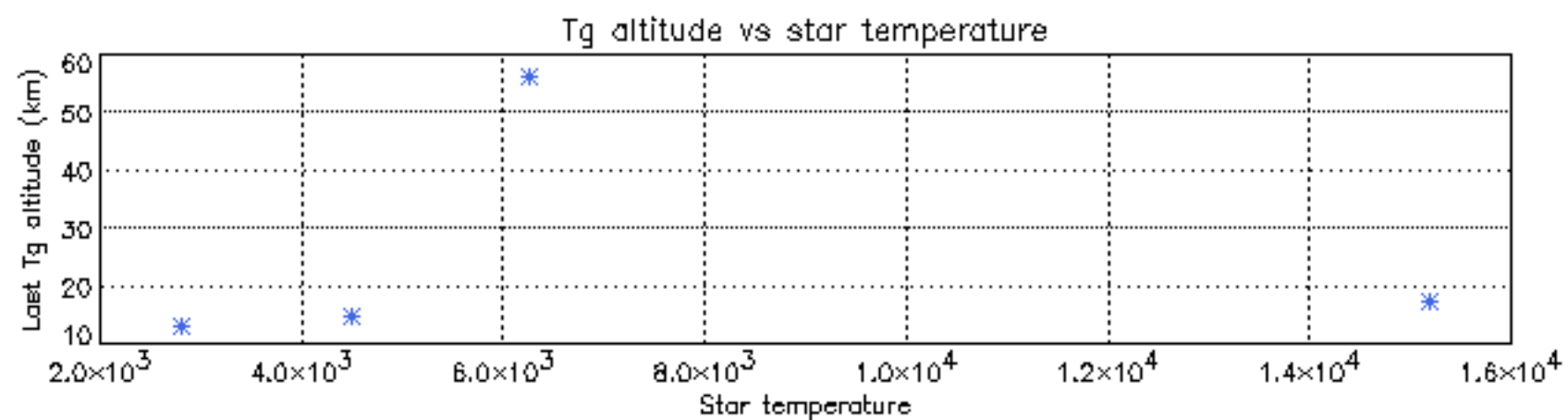
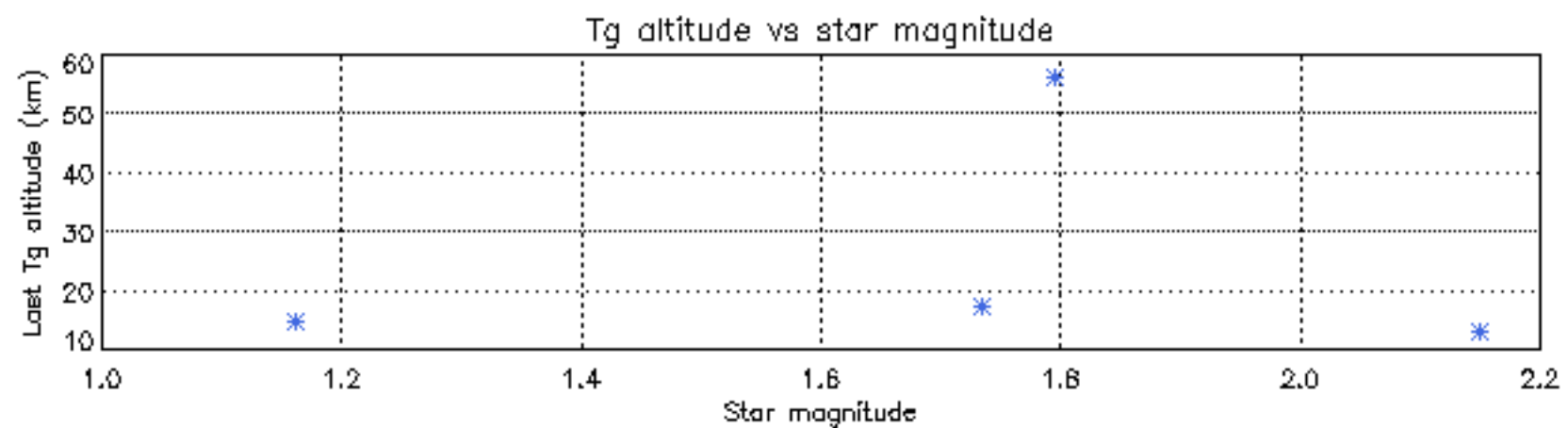
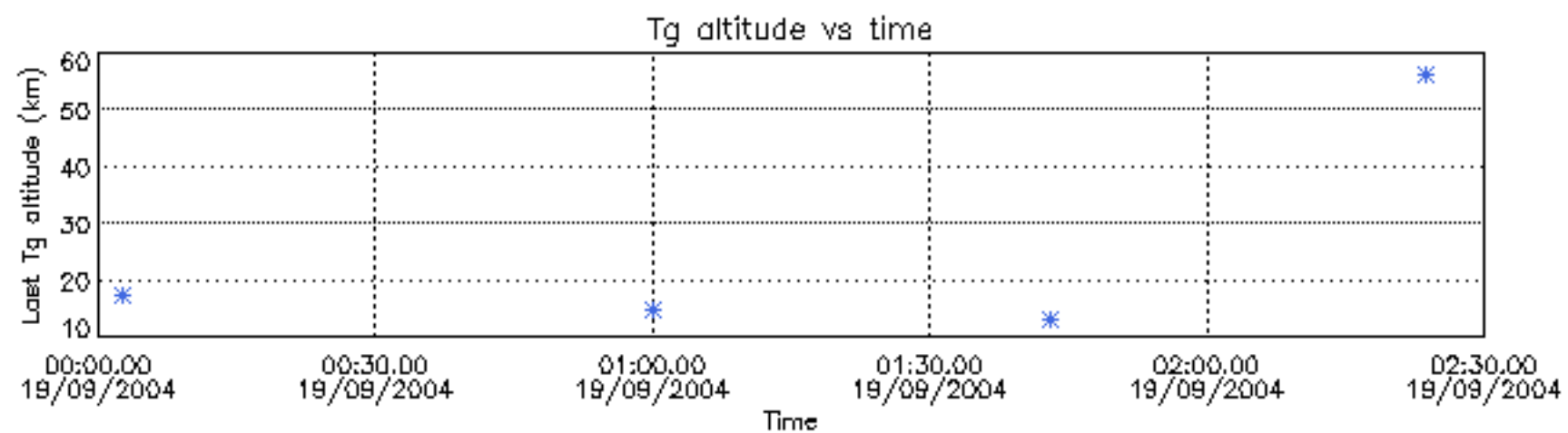
Tangent altitude at which the star is lost

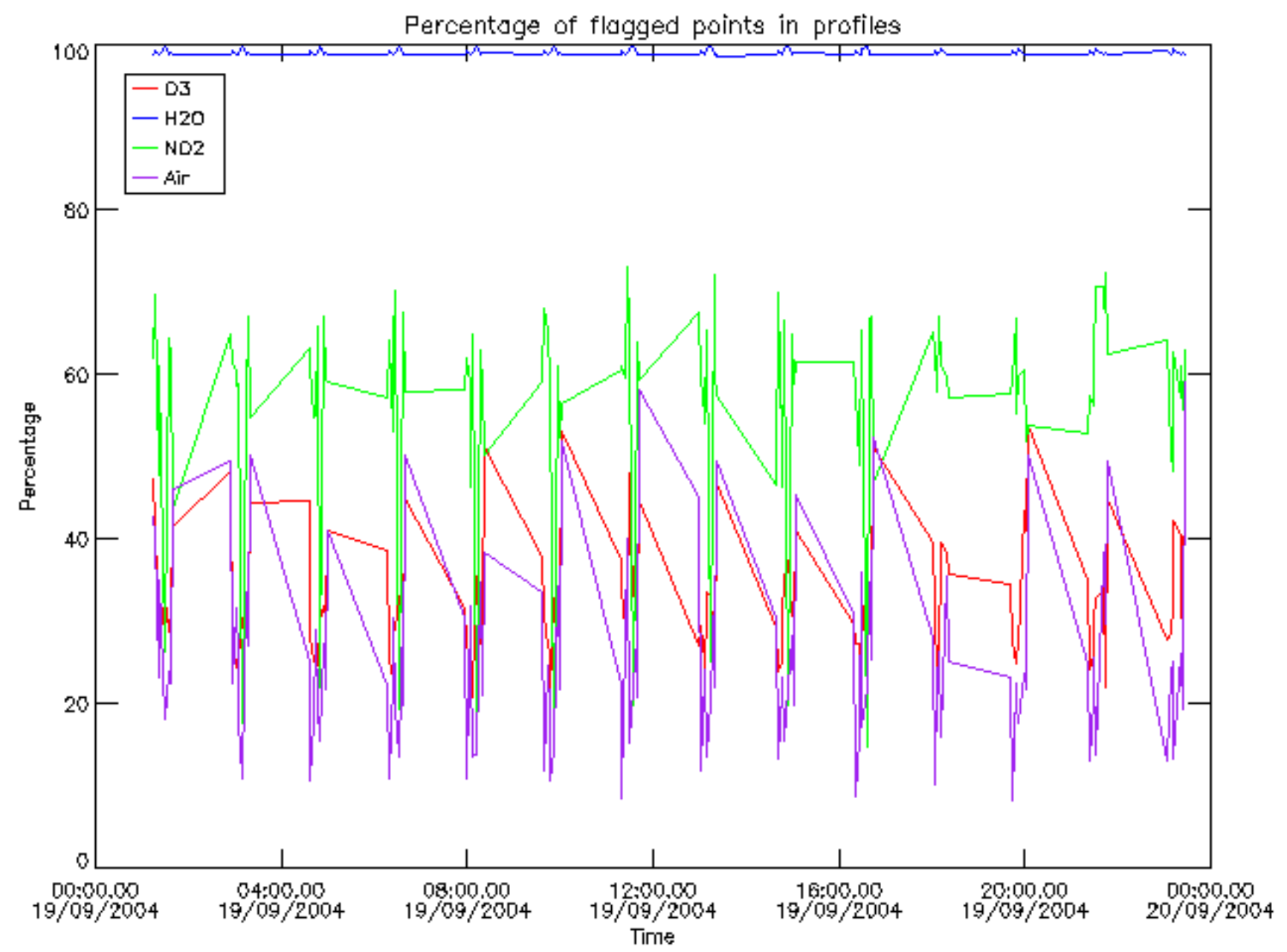


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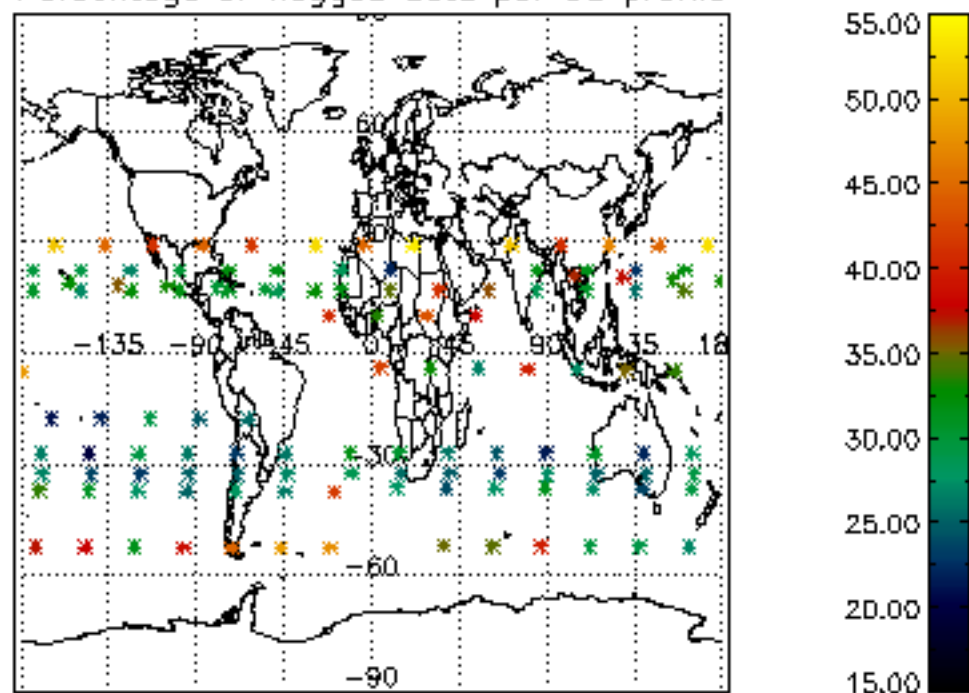


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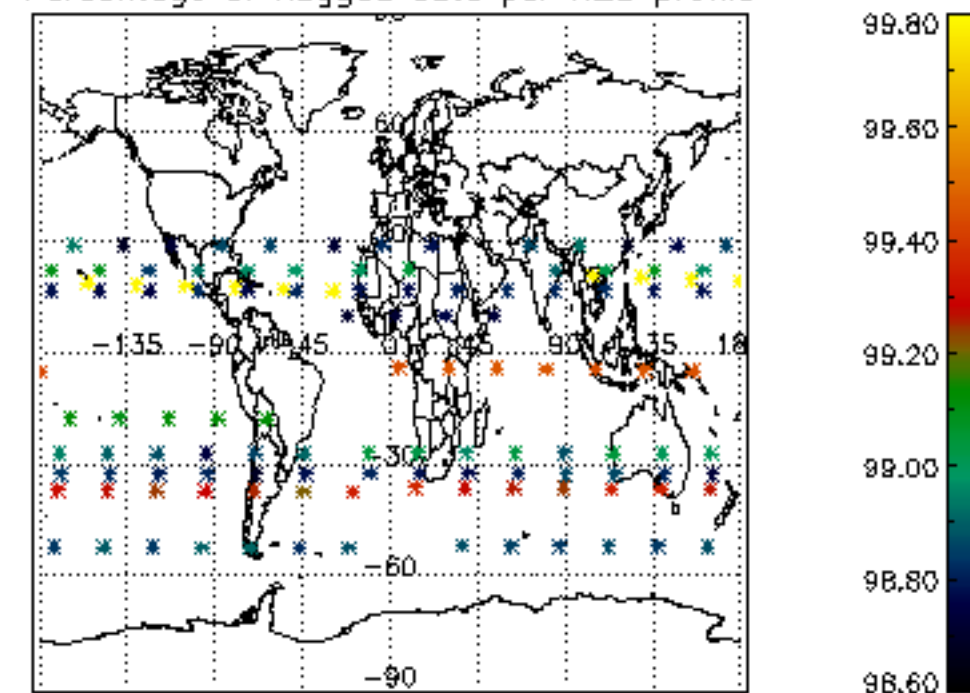




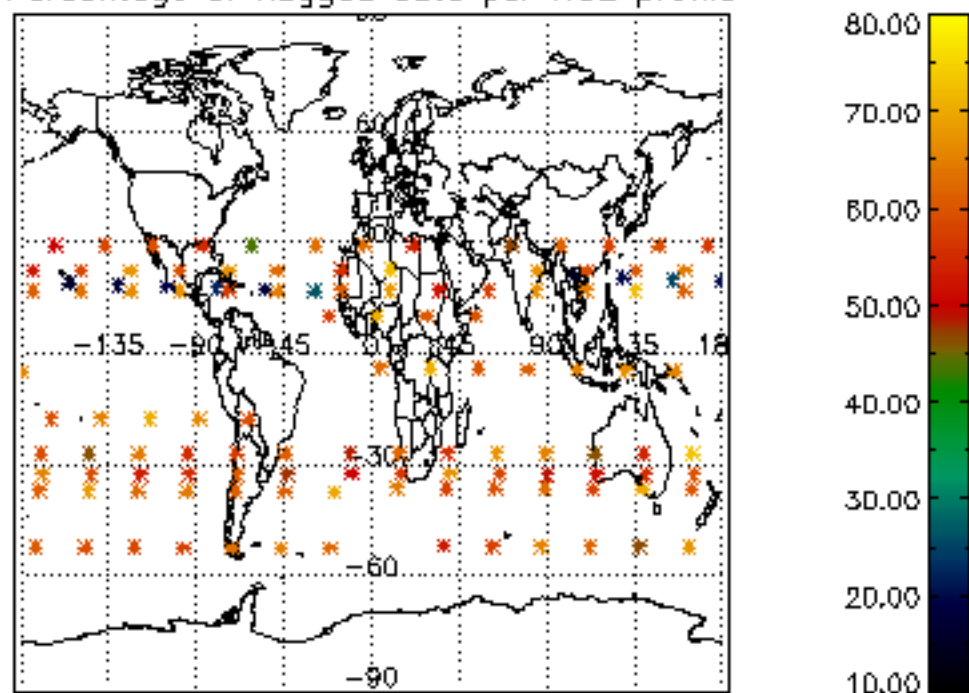
Percentage of flagged data per D3 profile



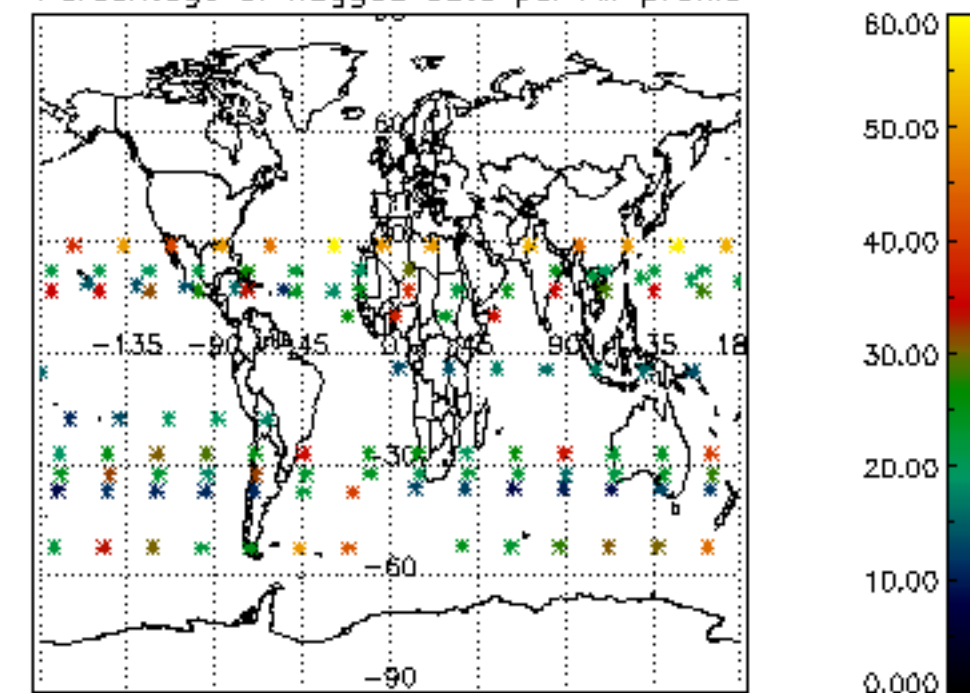
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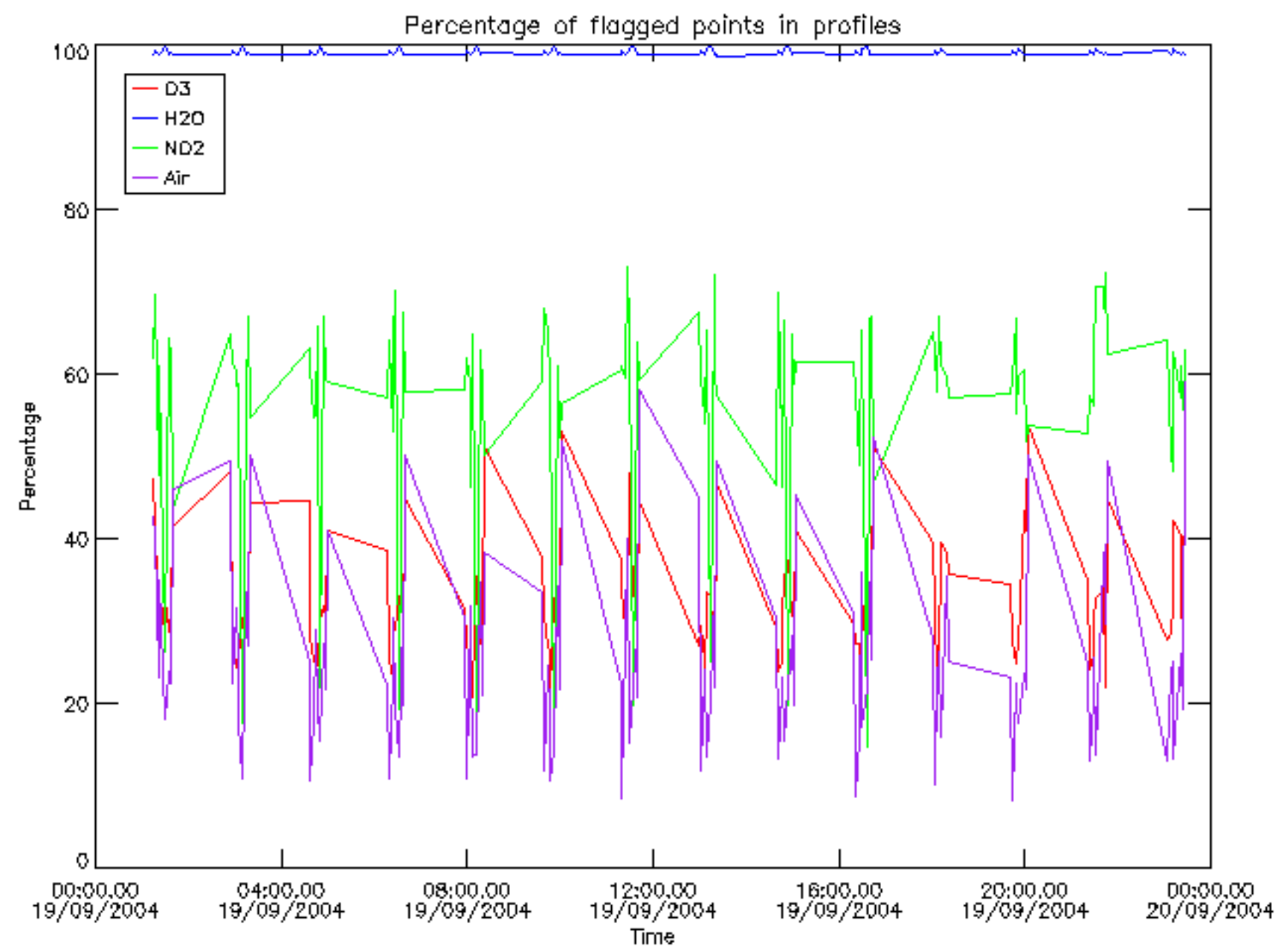


Percentage of flagged data per NO2 profile

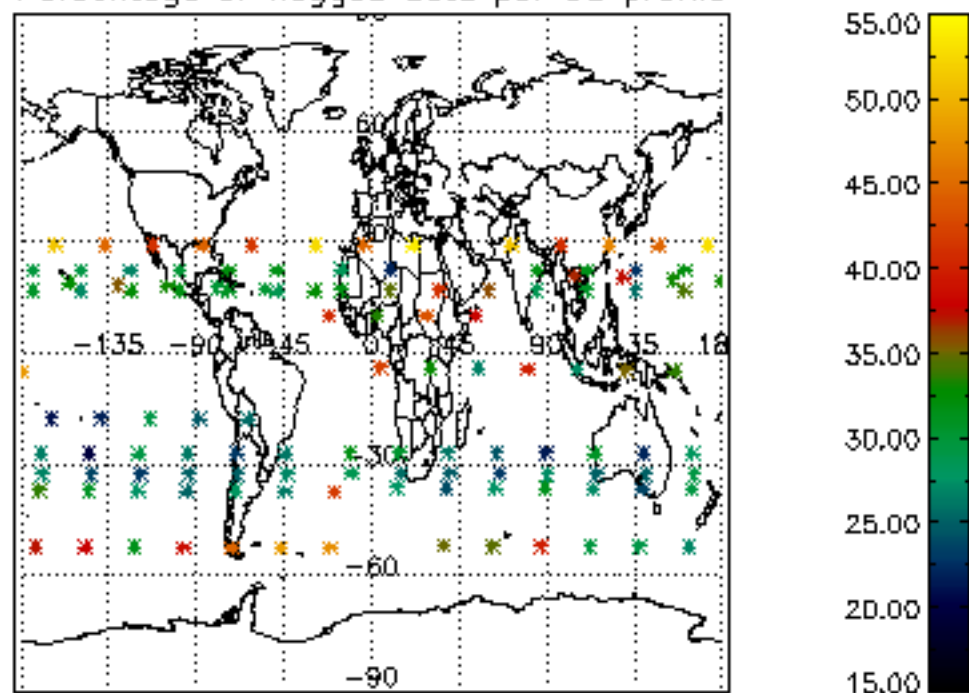


Percentage of flagged data per Air profile

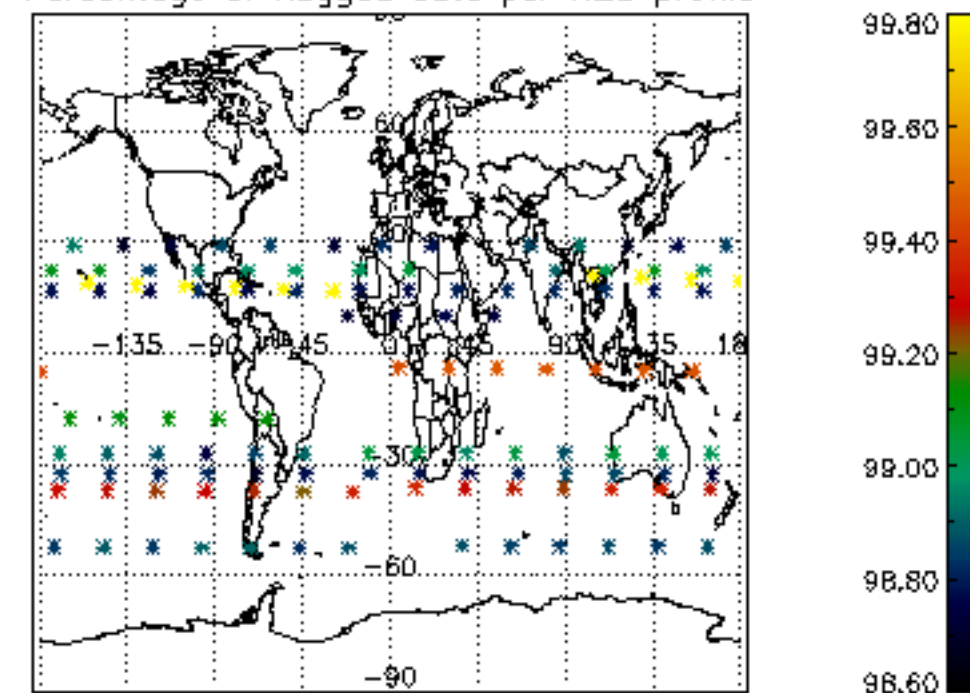




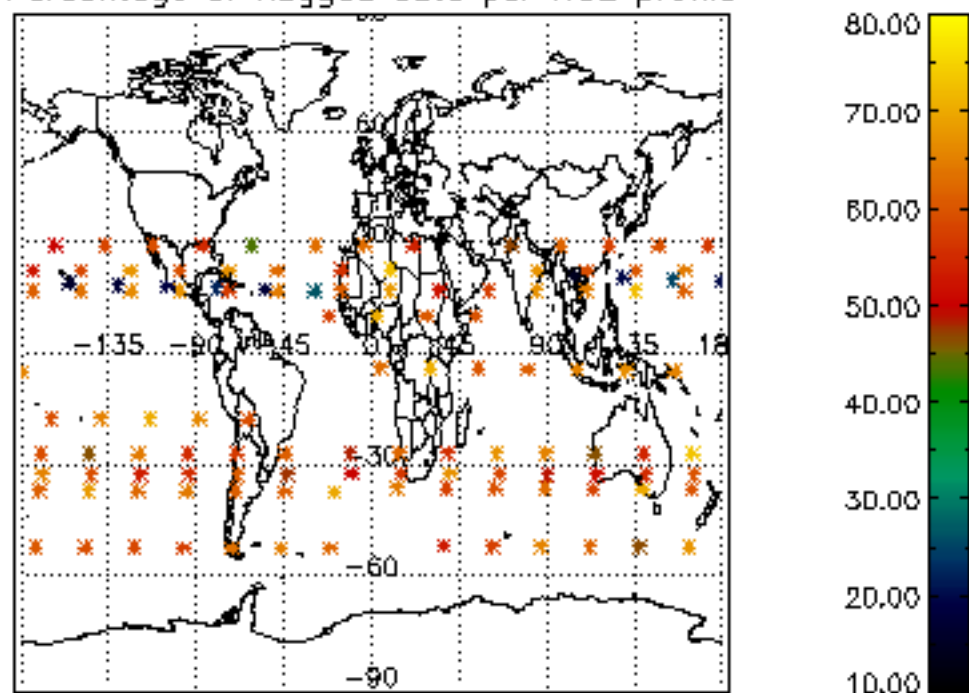
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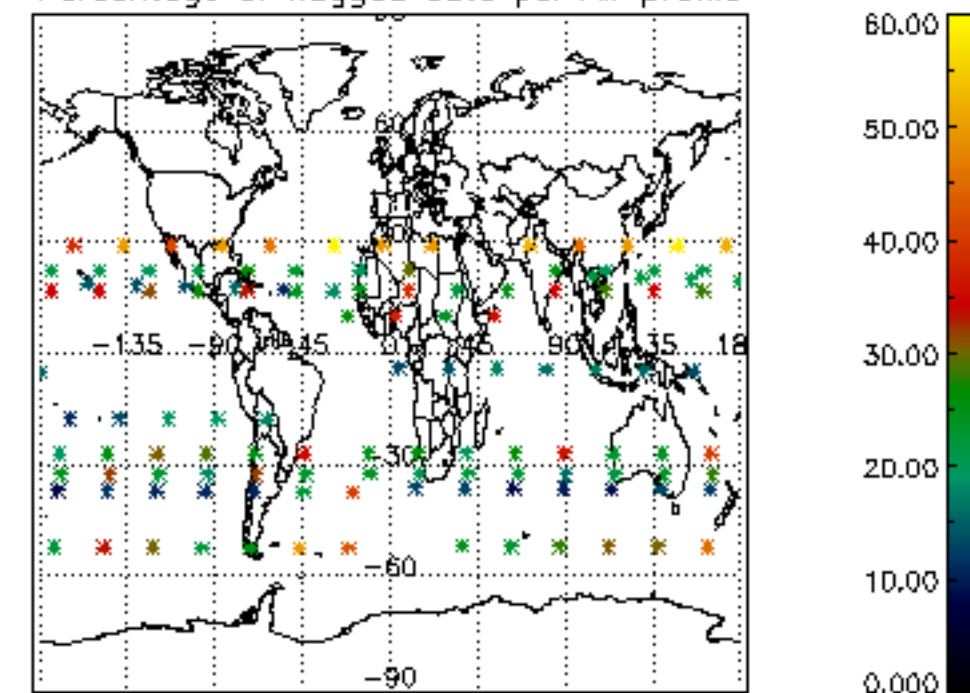
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per Air profile




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15; -2123.2; 04-SEP-2004 15:25:02; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13148
16; -1897.0; 04-SEP-2004 15:28:48; Bright; 63.0; 6; 13Alp Aur ; 0.08; 3400;occ; 126; 0;13148
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4;	-265.8;	16-SEP-2004	23:01:20;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13324
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7;	31.5;	16-SEP-2004	23:06:17;	Dark	;	57.0;	2;	Alp Car	;	-0.74;	7000;occ;	114;	0;	13325
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