

GOMOS Daily Report 09-DEC-2003

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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	10DEC2003 06:49:37
Data source version	<Any version>
Start time of products	09-DEC-2003 (09DEC2003 00:00:00)
Stop time of products	10-DEC-2003 (10DEC2003 00:00:00)
Store outputs flag	1
Nb of level 1b prods	48
Nb of prods with errors	1

2. Summary of products arrived in PCF

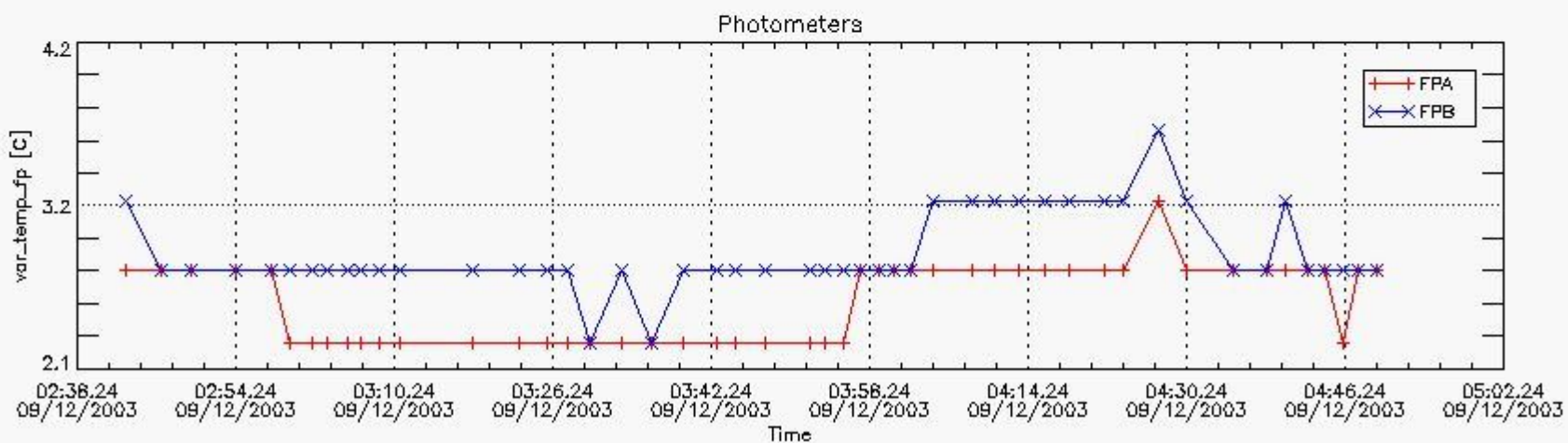
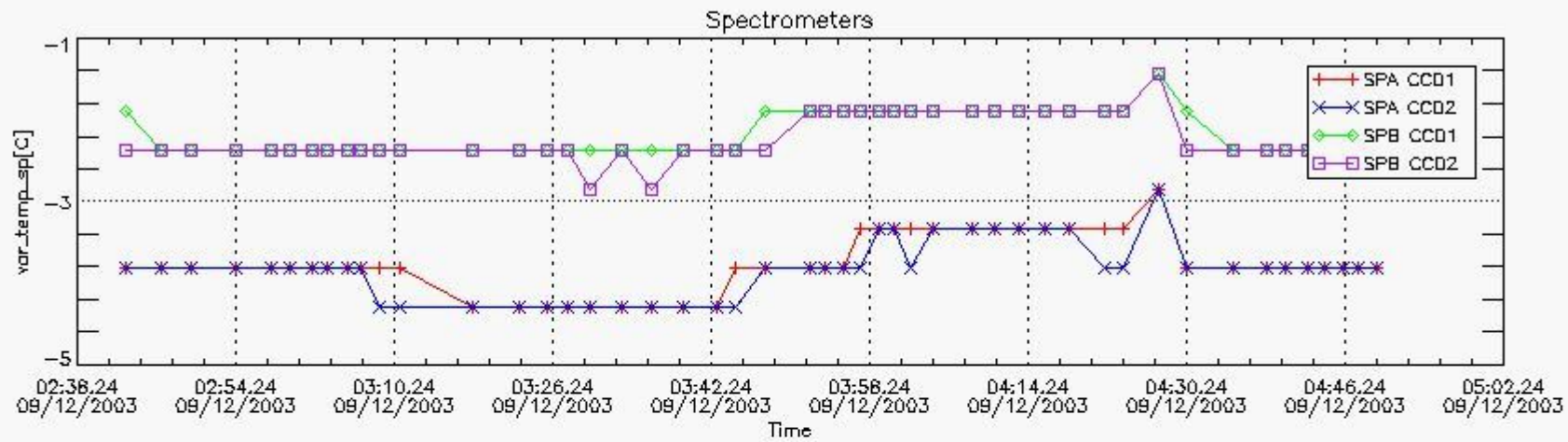
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[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
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GOM_TRA_1PNPDE20031209_024321_000000682022_00204_09276_0035.N1	09-DEC-2003 02:43:21	Dark	67.500	179	24Omi2CMA	3.0320	24000.	135	9276	No
GOM_TRA_1PNPDE20031209_024655_000000792022_00204_09276_0000.N1	09-DEC-2003 02:46:55	Dark	79.000	1	9Alp CMA	-1.4400	11000.	158	9276	No
GOM_TRA_1PNPDE20031209_024952_000000542022_00204_09276_0001.N1	09-DEC-2003 02:49:52	Dark	54.000	56	53Kap Ori	2.0650	30000.	108	9276	No
GOM_TRA_1PNPDE20031209_025427_000000522022_00204_09276_0002.N1	09-DEC-2003 02:54:27	Dark	52.000	94	92Alp Cet	2.5260	3100.0	104	9276	No
GOM_TRA_1PNPDE20031209_025755_000000562022_00204_09276_0003.N1	09-DEC-2003 02:57:55	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	9276	No
GOM_TRA_1PNPDE20031209_025950_000000392022_00204_09276_0004.N1	09-DEC-2003 02:59:50	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	9276	No
GOM_TRA_1PNPDE20031209_030205_000000392022_00204_09276_0005.N1	09-DEC-2003 03:02:05	Bright	39.000	150	44Zet Per	2.8900	28000.	78	9276	No
GOM_TRA_1PNPDE20031209_030338_000000392022_00204_09276_0006.N1	09-DEC-2003 03:03:38	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	9276	No
GOM_TRA_1PNPDE20031209_030542_000000402022_00204_09276_0007.N1	09-DEC-2003 03:05:42	Bright	39.500	73	57Gam1And	2.2600	13100.	79	9276	No
GOM_TRA_1PNPDE20031209_030705_000000422022_00204_09276_0008.N1	09-DEC-2003 03:07:05	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	9276	No
GOM_TRA_1PNPDE20031209_030856_000000482022_00204_09276_0009.N1	09-DEC-2003 03:08:56	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	9276	No
GOM_TRA_1PNPDE20031209_031055_000000382022_00204_09276_0010.N1	09-DEC-2003 03:10:55	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	9276	No
GOM_TRA_1PNPDE20031209_031813_000000352022_00204_09276_0011.N1	09-DEC-2003 03:18:13	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	9276	No
GOM_TRA_1PNPDE20031209_032257_000000412022_00204_09276_0012.N1	09-DEC-2003 03:22:57	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	9276	No
GOM_TRA_1PNPDE20031209_032554_000000372022_00204_09276_0013.N1	09-DEC-2003 03:25:54	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	9276	No
GOM_TRA_1PNPDE20031209_032753_000000432022_00204_09276_0014.N1	09-DEC-2003 03:27:53	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	9276	No
GOM_TRA_1PNPDE20031209_033012_000000402022_00204_09276_0015.N1	09-DEC-2003 03:30:12	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	9276	No
GOM_TRA_1PNPDE20031209_033317_000000372022_00204_09276_0016.N1	09-DEC-2003 03:33:17	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	9276	No
GOM_TRA_1PNPDE20031209_033624_000000372022_00204_09276_0017.N1	09-DEC-2003 03:36:24	Bright	37.000	83		2.3780	11000.	74	9276	No
GOM_TRA_1PNPDE20031209_033931_000000512022_00204_09276_0018.N1	09-DEC-2003 03:39:31	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	9276	No
GOM_TRA_1PNPDE20031209_034259_000000532022_00204_09276_0019.N1	09-DEC-2003 03:42:59	Bright	53.000	138	47Eps Vir	2.8280	4700.0	106	9276	No
GOM_TRA_1PNPDE20031209_034448_000000822022_00204_09276_0020.N1	09-DEC-2003 03:44:48	Dark	82.000	62	94Bet Leo	2.1360	9700.0	164	9276	No
GOM_TRA_1PNPDE20031209_034747_000000552022_00204_09276_0021.N1	09-DEC-2003 03:47:47	Dark	55.000	121	29Gam Vir	2.7400	7200.0	110	9276	No
GOM_TRA_1PNPDE20031209_035219_000000482022_00204_09276_0022.N1	09-DEC-2003 03:52:19	Dark	47.500	169	46Gam Hya	2.9910	4700.0	95	9276	No
GOM_TRA_1PNPDE20031209_035353_000000522022_00204_09276_0023.N1	09-DEC-2003 03:53:53	Dark	52.000	100	4Gam Crv	2.5800	13100.	104	9276	No
GOM_TRA_1PNPDE20031209_035542_000000422022_00204_09276_0024.N1	09-DEC-2003 03:55:42	Dark	41.500	123	lot Cen	2.7500	10200.	83	9276	No
GOM_TRA_1PNPDE20031209_035732_000000402022_00204_09276_0025.N1	09-DEC-2003 03:57:32	Dark	40.000	95	Zet Cen	2.5450	26000.	80	9276	No
GOM_TRA_1PNPDE20031209_035924_000000392022_00204_09276_0026.N1	09-DEC-2003 03:59:24	Dark	38.500	77	Eps Cen	2.3030	28000.	77	9276	No
GOM_TRA_1PNPDE20031209_040049_000000502022_00204_09276_0027.N1	09-DEC-2003 04:00:49	Dark	49.500	10	Bet Cen	0.61000	28000.	99	9276	No
GOM_TRA_1PNPDE20031209_040234_000000392022_00205_09277_0028.N1	09-DEC-2003 04:02:34	Dark	39.000	129	Del Cru	2.7930	26000.	78	9277	No
GOM_TRA_1PNPDE20031209_040445_000000472022_00205_09277_0029.N1	09-DEC-2003 04:04:45	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	9277	No
GOM_TRA_1PNPDE20031209_040844_000000402022_00205_09277_0030.N1	09-DEC-2003 04:08:44	Dark	39.500	29	Bet Car	1.6720	10200.	79	9277	No
GOM_TRA_1PNPDE20031209_041059_000000542022_00205_09277_0031.N1	09-DEC-2003 04:10:59	Dark	53.500	41	Eps Car	1.8600	4100.0	107	9277	No
GOM_TRA_1PNPDE20031209_041325_000000552022_00205_09277_0032.N1	09-DEC-2003 04:13:25	Dark	55.000	34	Gam2Vel	1.7930	23000.	110	9277	No
GOM_TRA_1PNPDE20031209_041608_000000522022_00205_09277_0033.N1	09-DEC-2003 04:16:08	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	9277	No
GOM_TRA_1PNPDE20031209_041828_000000612022_00205_09277_0034.N1	09-DEC-2003 04:18:28	Dark	61.000	117	Pi Pup	2.7060	3800.0	122	9277	No
GOM_TRA_1PNPDE20031209_042202_000000632022_00205_09277_0035.N1	09-DEC-2003 04:22:02	Dark	62.500	23	21Eps CMA	1.5020	26000.	125	9277	No
GOM_TRA_1PNPDE20031209_042359_000000652022_00205_09277_0036.N1	09-DEC-2003 04:23:59	Dark	65.000	179	24Omi2CMA	3.0320	24000.	130	9277	No
GOM_TRA_1PNPDE20031209_042731_000000802022_00205_09277_0000.N1	09-DEC-2003 04:27:31	Dark	80.000	1	9Alp CMA	-1.4400	11000.	160	9277	Yes
GOM_TRA_1PNPDE20031209_043028_000000562022_00205_09277_0001.N1	09-DEC-2003 04:30:28	Dark	56.000	56	53Kap Ori	2.0650	30000.	112	9277	No
GOM_TRA_1PNPDE20031209_043503_000000462022_00205_09277_0002.N1	09-DEC-2003 04:35:03	Dark	46.000	94	92Alp Cet	2.5260	3100.0	92	9277	No
GOM_TRA_1PNPDE20031209_043830_000000572022_00205_09277_0003.N1	09-DEC-2003 04:38:30	Dark	57.000	13	87Alp Tau	0.86700	3800.0	114	9277	No
GOM_TRA_1PNPDE20031209_044026_000000382022_00205_09277_0004.N1	09-DEC-2003 04:40:26	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	9277	No
GOM_TRA_1PNPDE20031209_044241_000000382022_00205_09277_0005.N1	09-DEC-2003 04:42:41	Bright	38.000	150	44Zet Per	2.8900	28000.	76	9277	No
GOM_TRA_1PNPDE20031209_044415_000000382022_00205_09277_0006.N1	09-DEC-2003 04:44:15	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	9277	No
GOM_TRA_1PNPDE20031209_044618_000000412022_00205_09277_0007.N1	09-DEC-2003 04:46:18	Bright	41.000	73	57Gam1And	2.2600	13100.	82	9277	No
GOM_TRA_1PNPDE20031209_044742_000000382022_00205_09277_0008.N1	09-DEC-2003 04:47:42	Bright	37.500	35	33Alp Per	1.7950	6250.0	75	9277	No
GOM_TRA_1PNPDE20031209_044931_000000482022_00205_09277_0009.N1	09-DEC-2003 04:49:31	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	9277	No

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



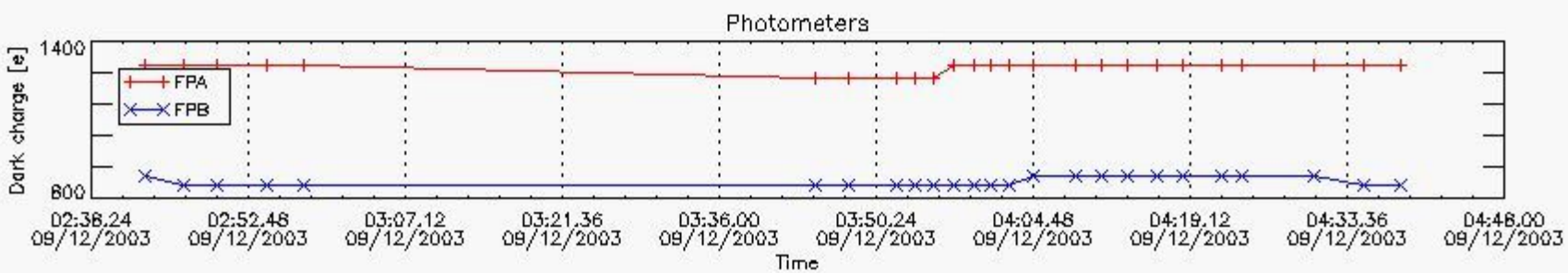
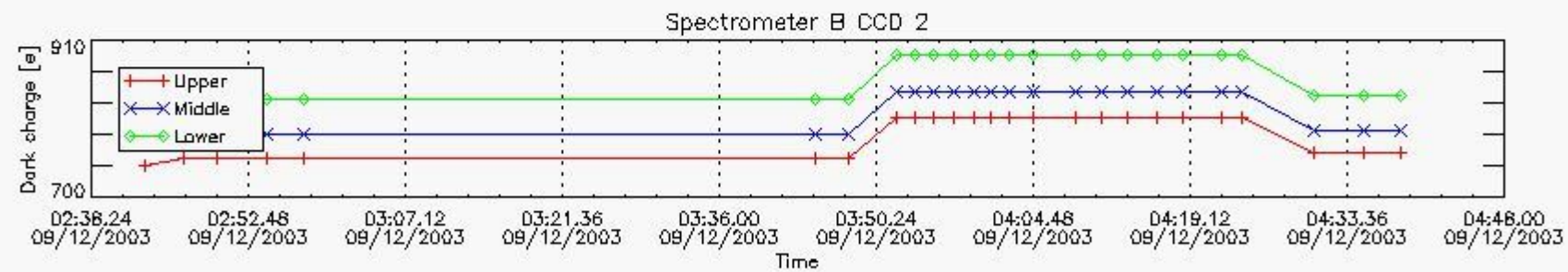
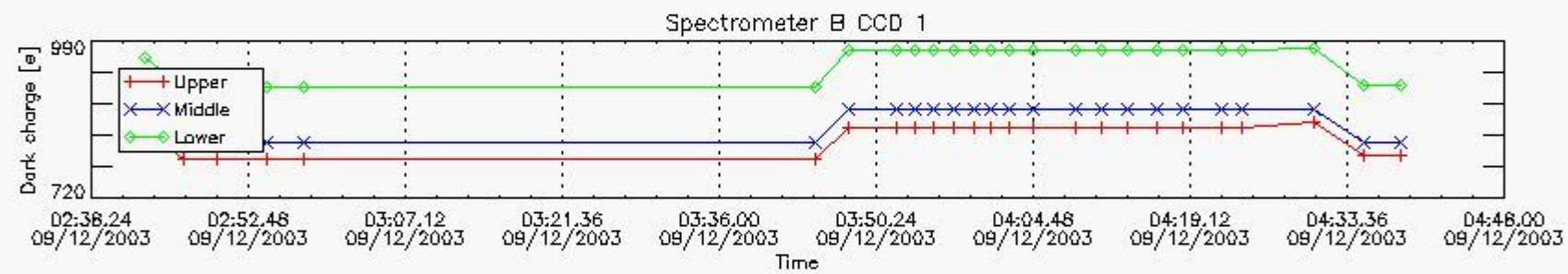
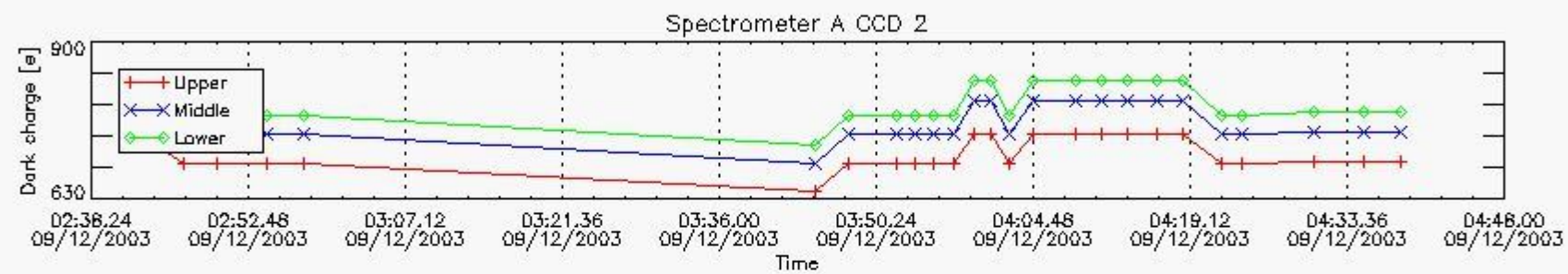
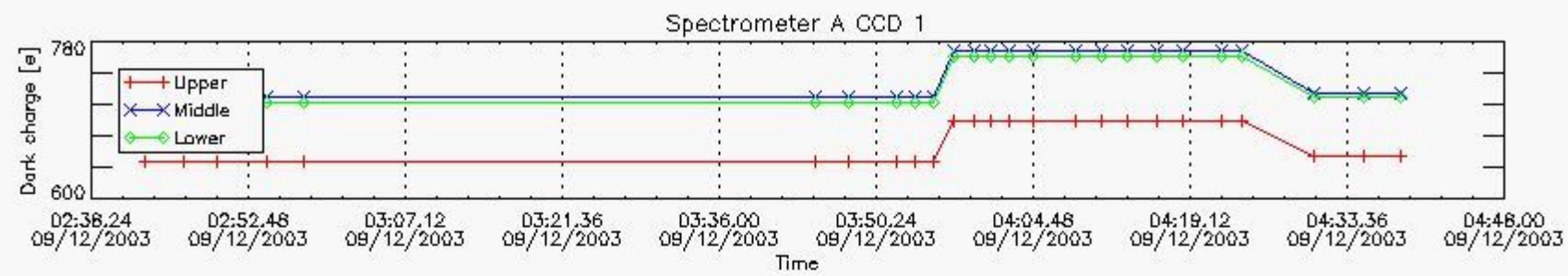
4. Overview of dark signal processing per product

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

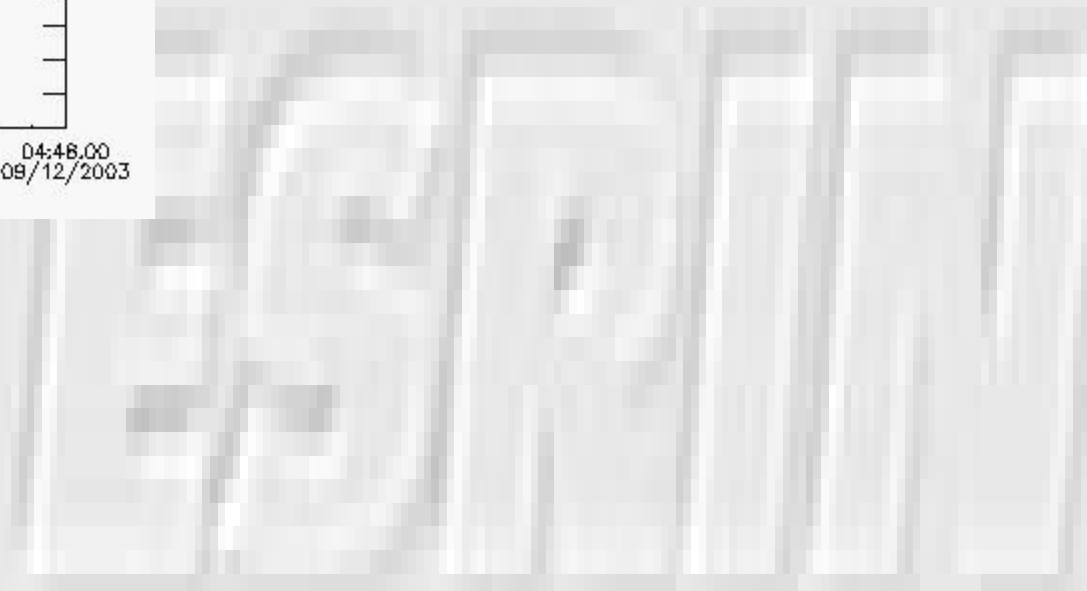
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



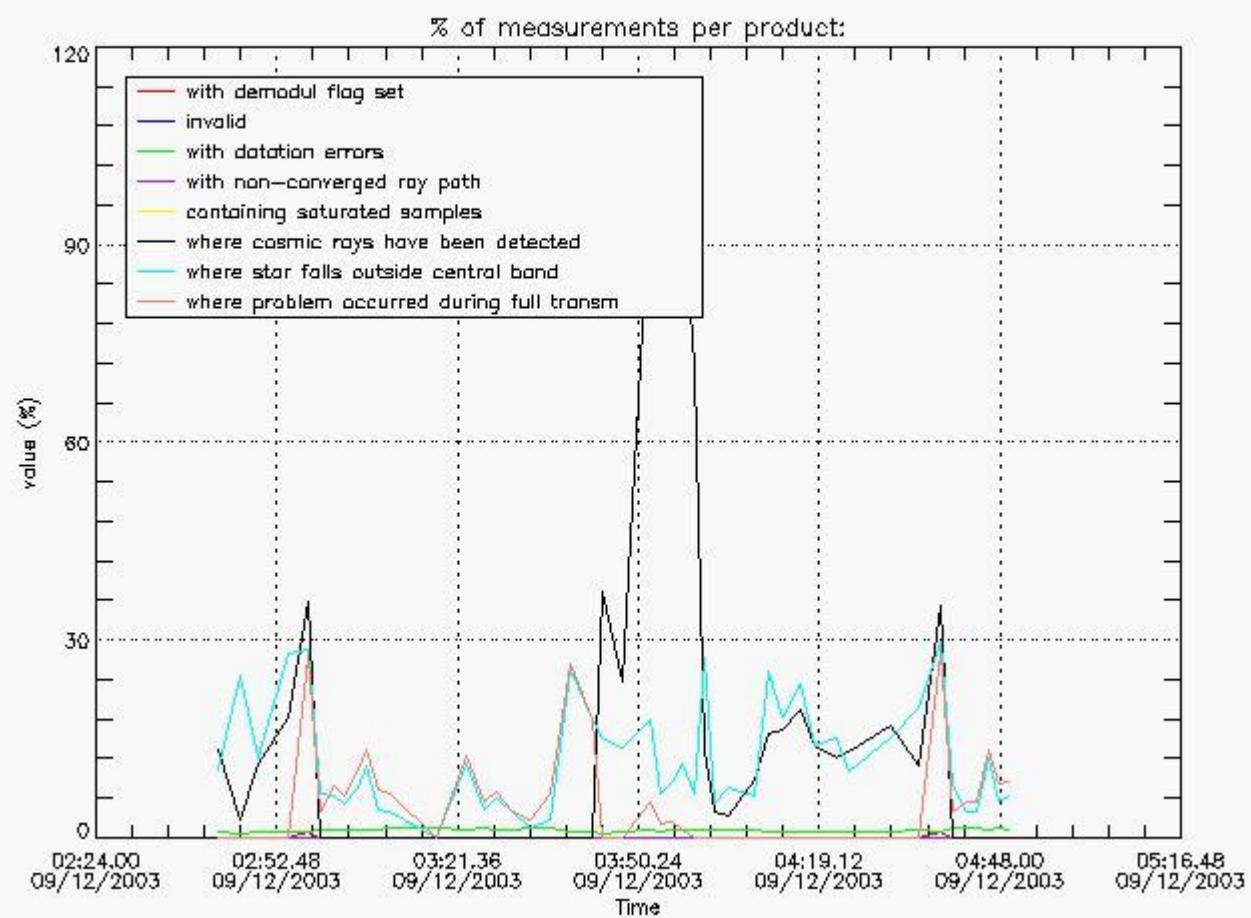
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.0213 %
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



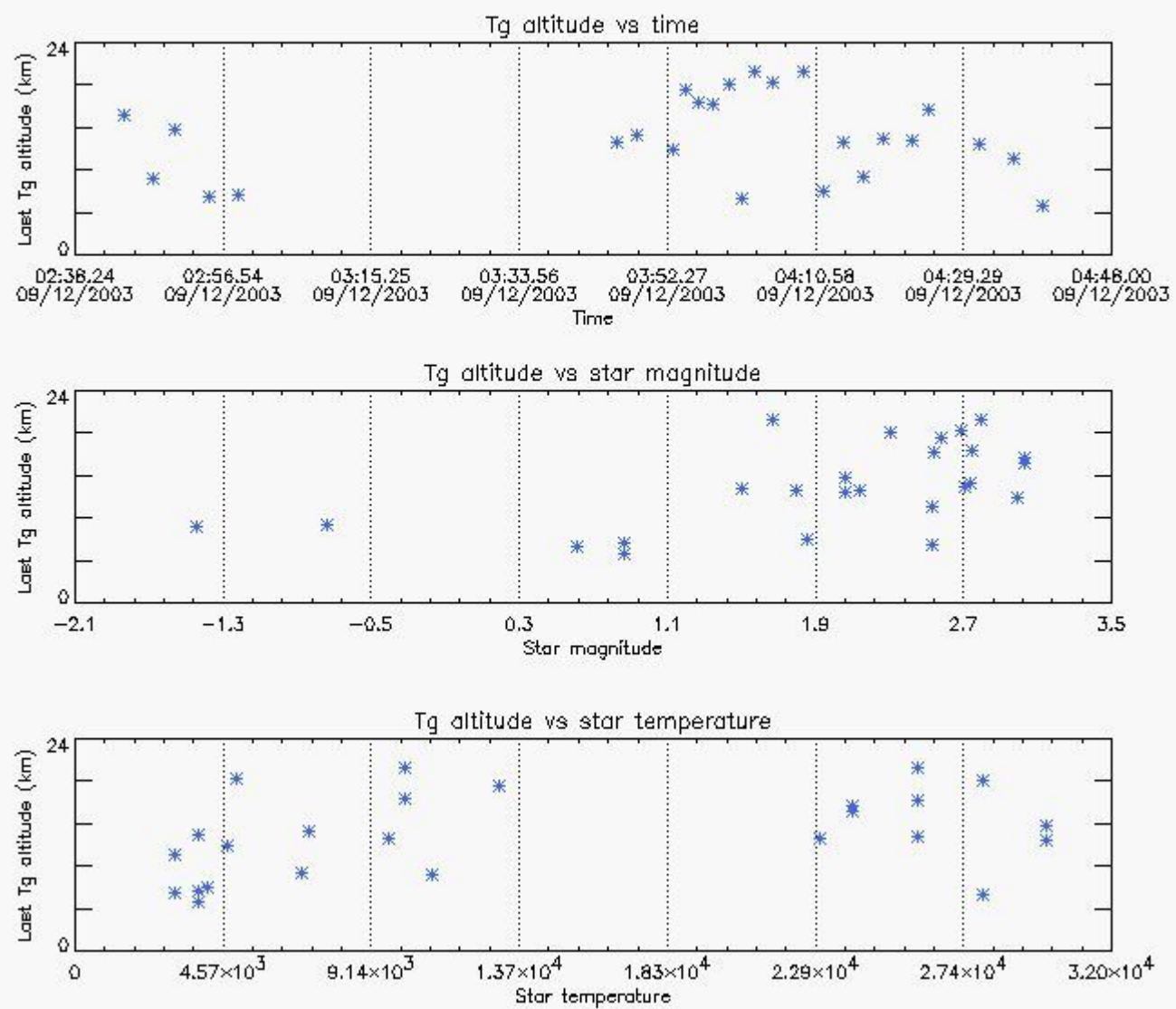
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT
Mean:	13.170	19.915
St. deviation:	4.7413	3.9787
Maximum:	20.727	27.878
Minimum:	5.6193	9.2196
Number of data:	25.000	22.000

6.2 Plot for DARK limb products

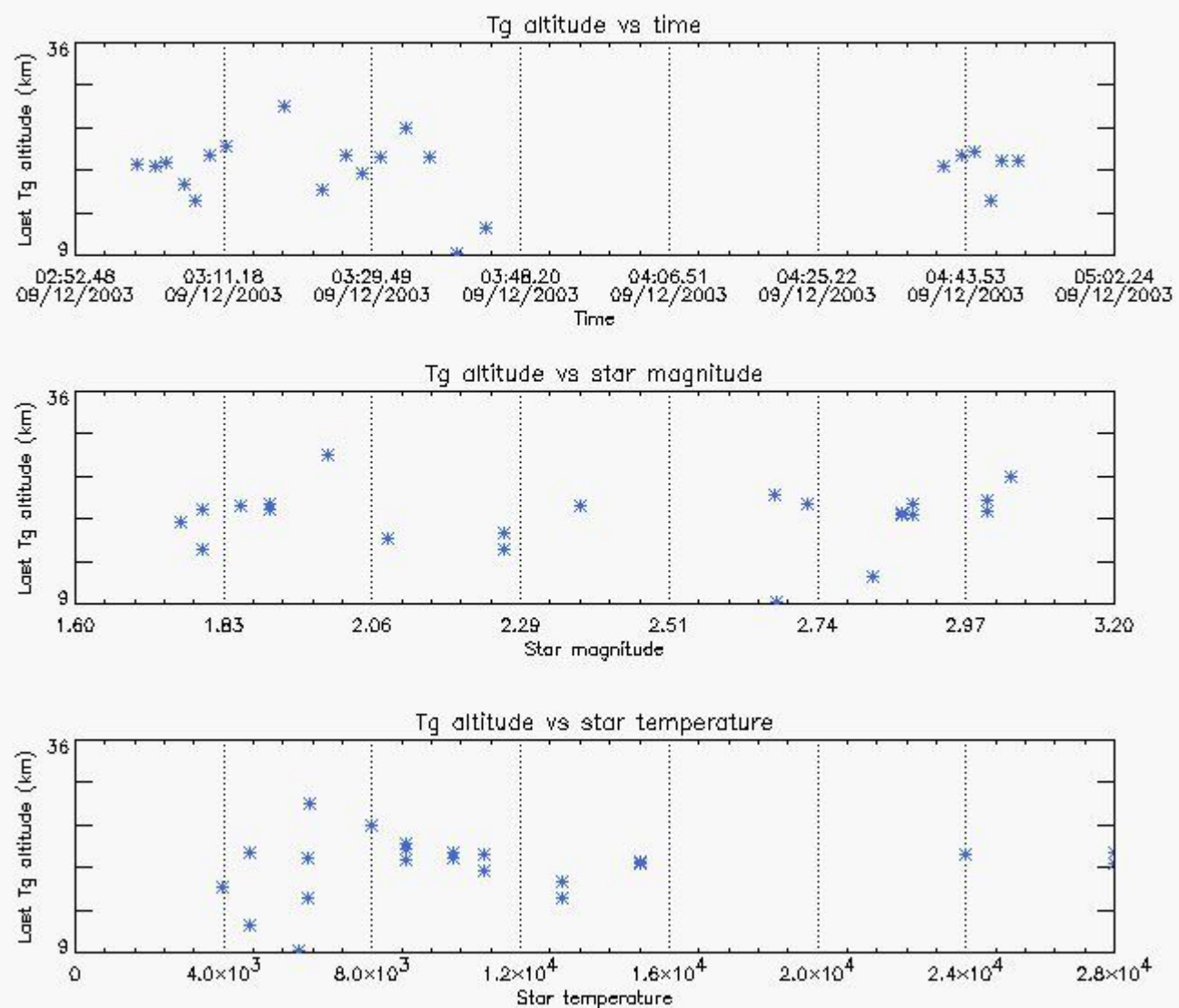
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost



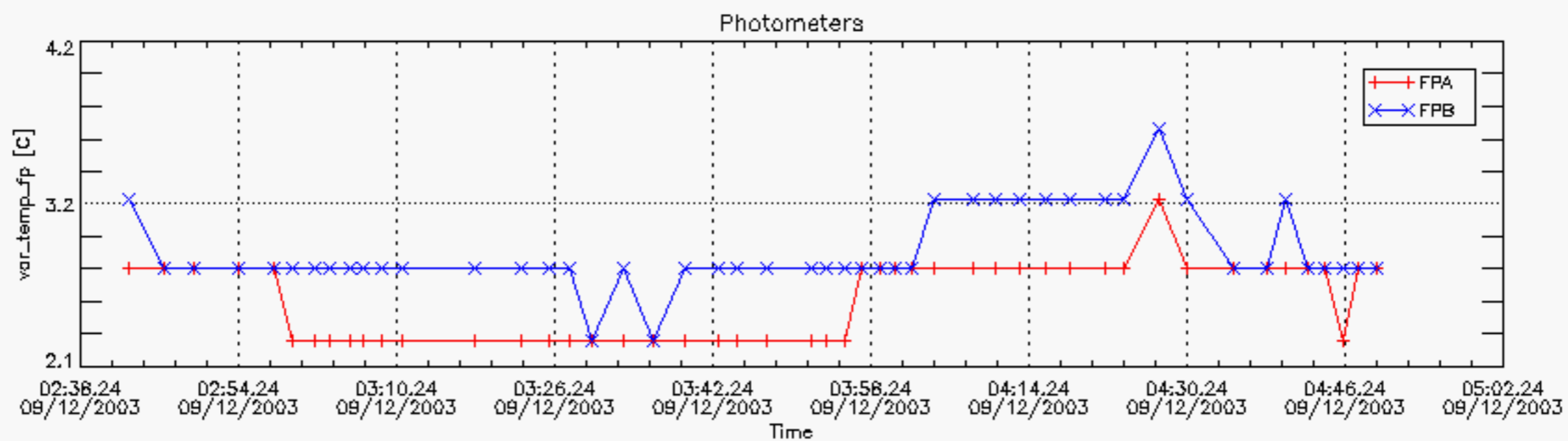
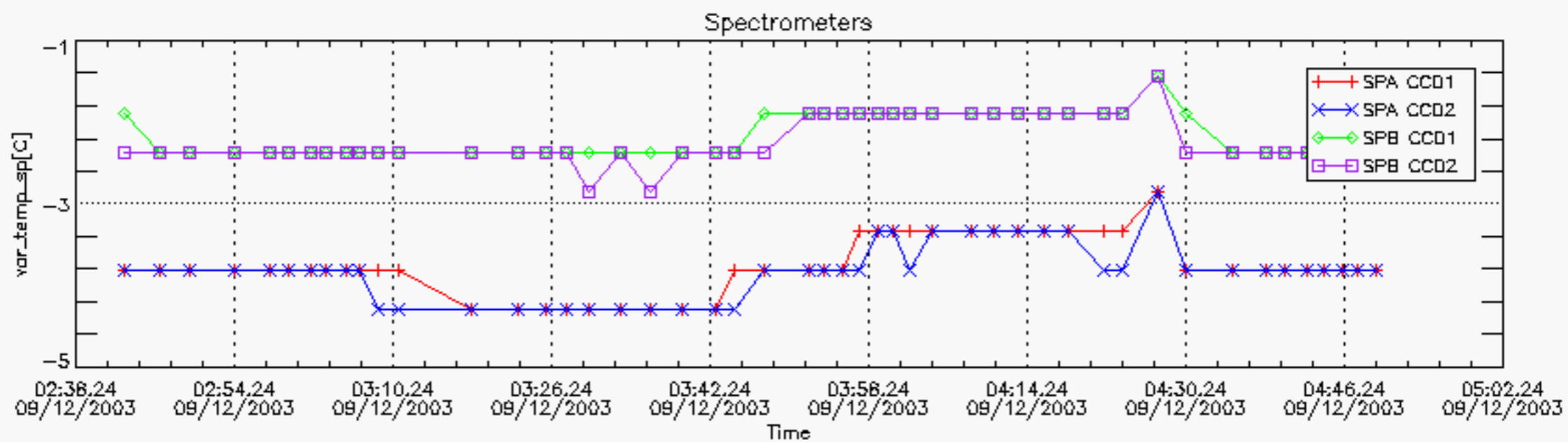
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

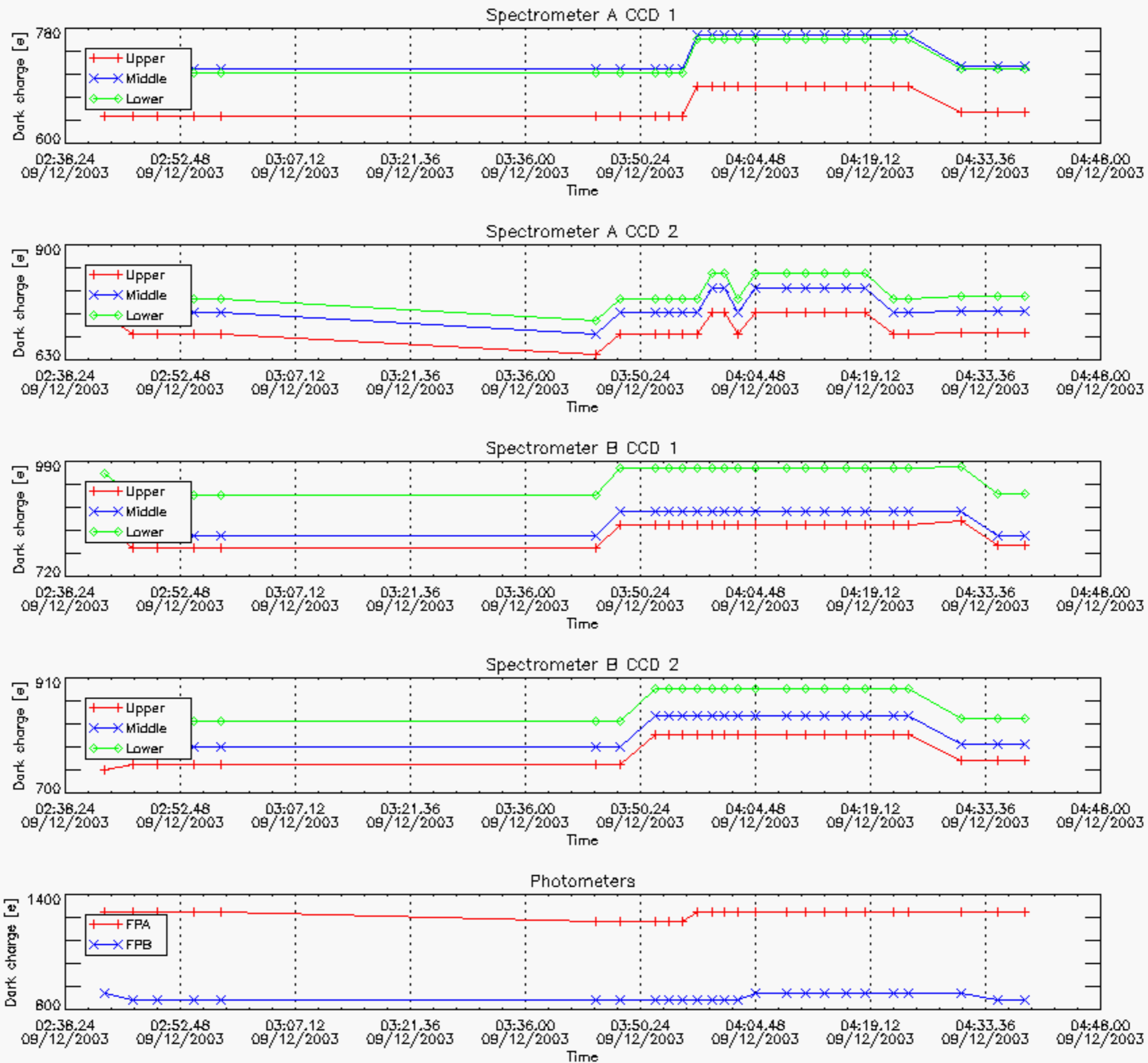
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: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

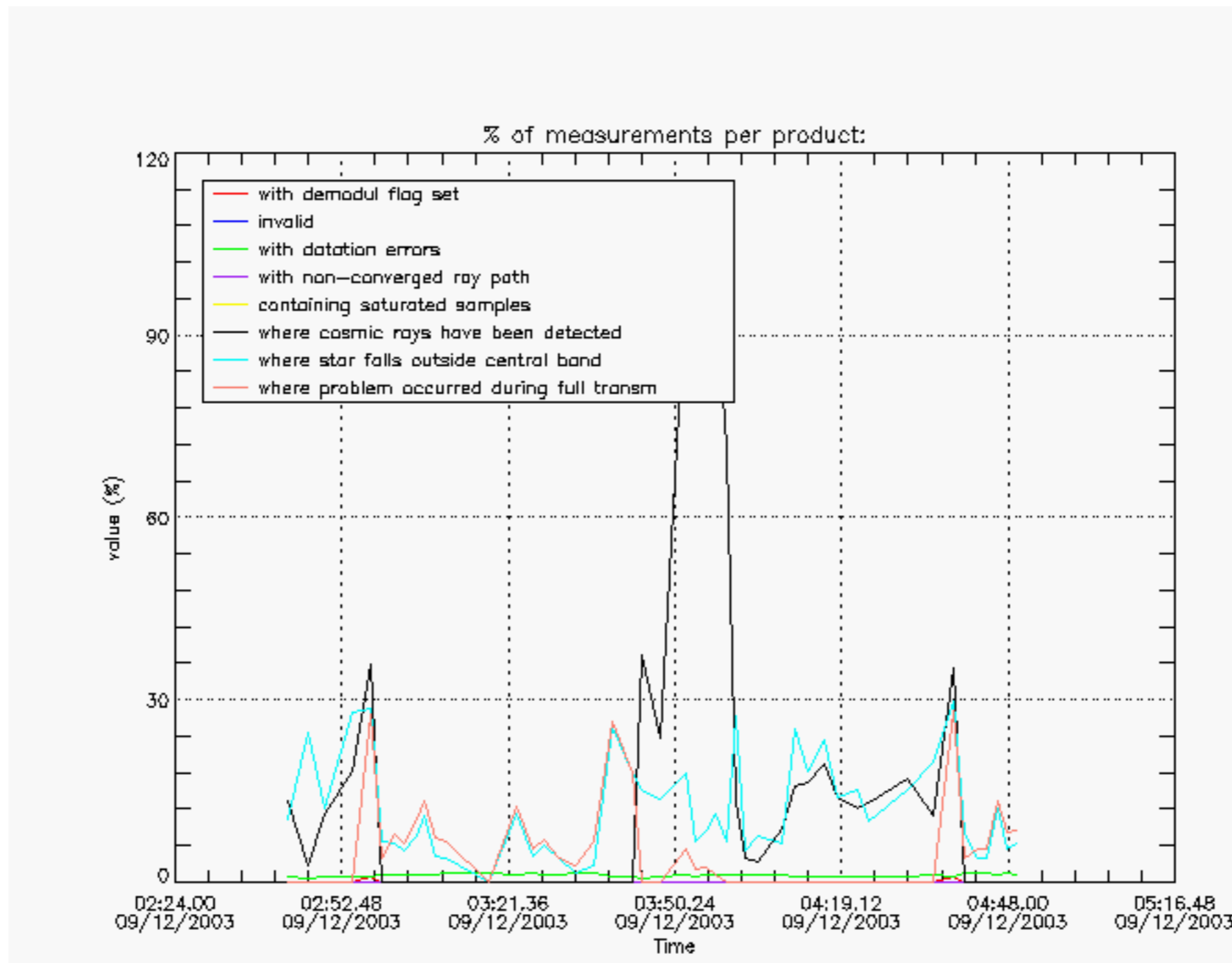
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.3	1447.5	1460.4	1446.8
St. deviation:	5.6565	6.8370	8.1583	9.4467
Maximum:	1504.0	1503.0	1515.0	1503.0
Minimum:	1456.0	1427.0	1435.0	1424.0
Number of data:	32000.	32000.	23700.	23700.



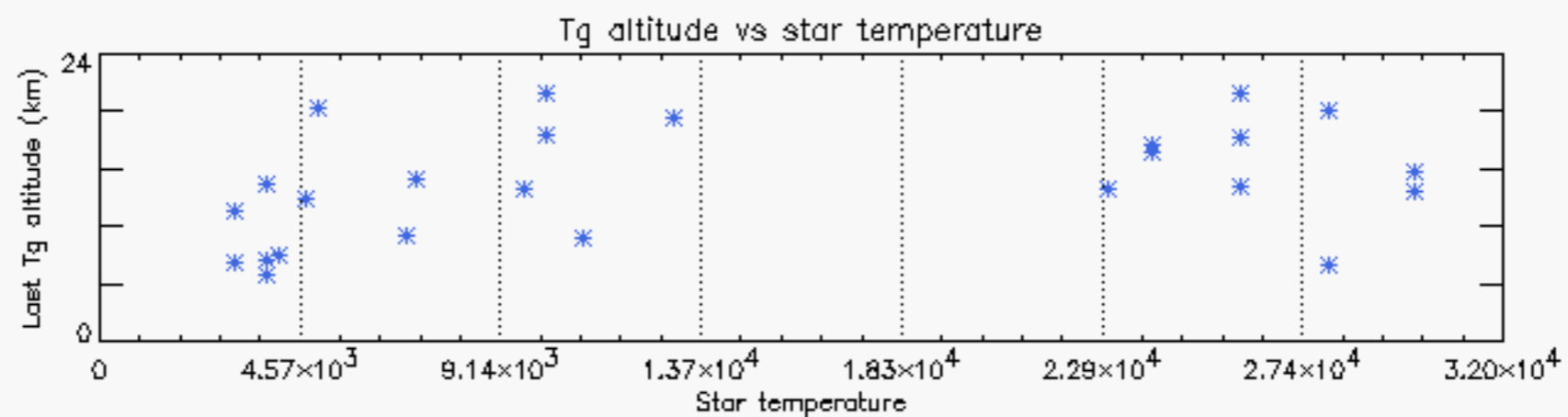
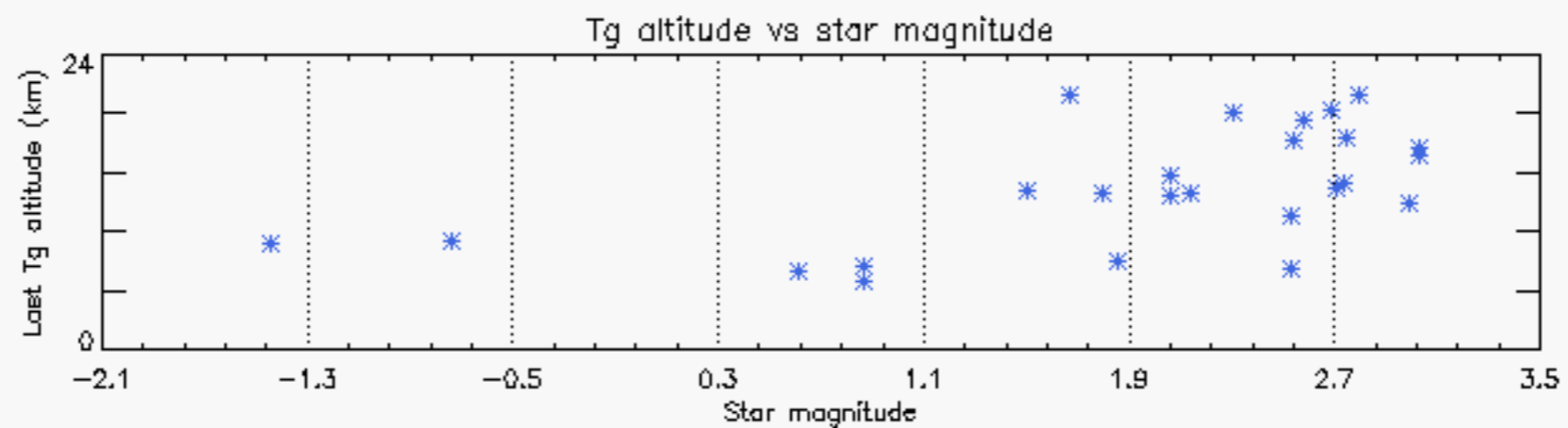
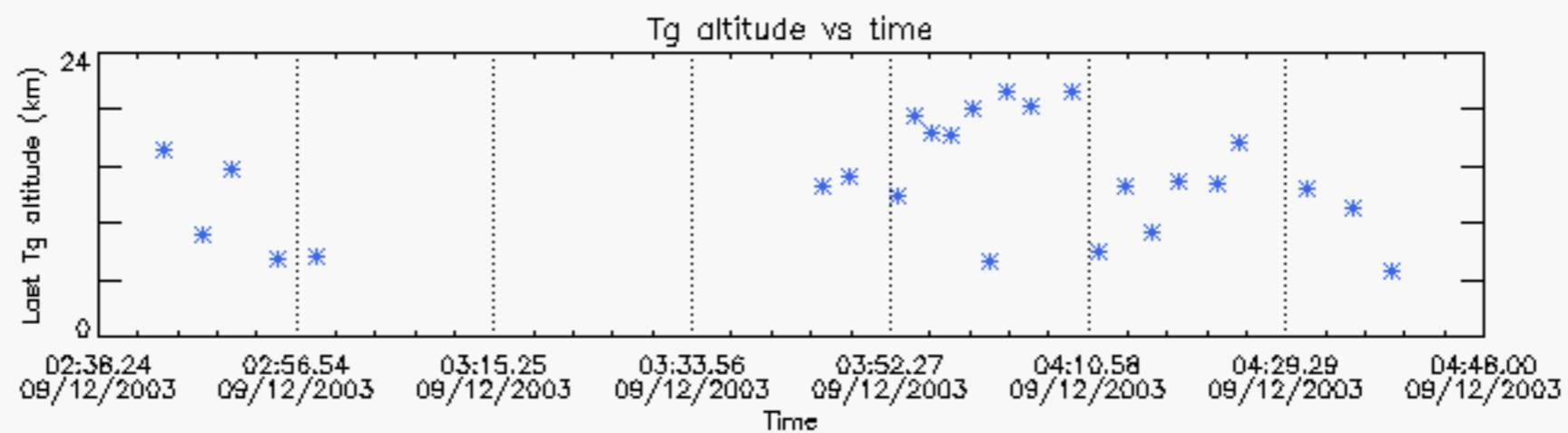




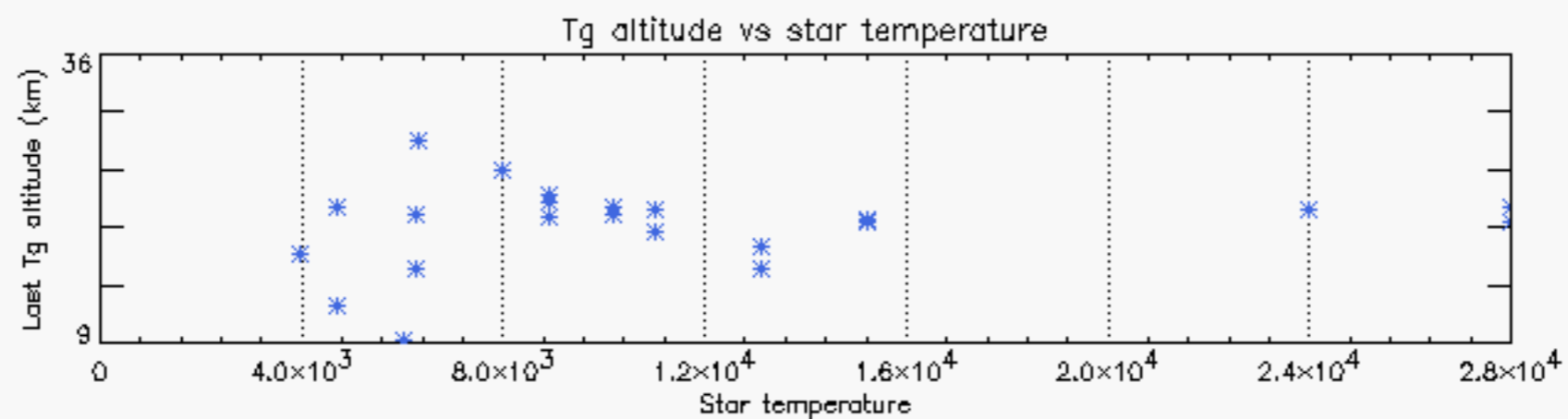
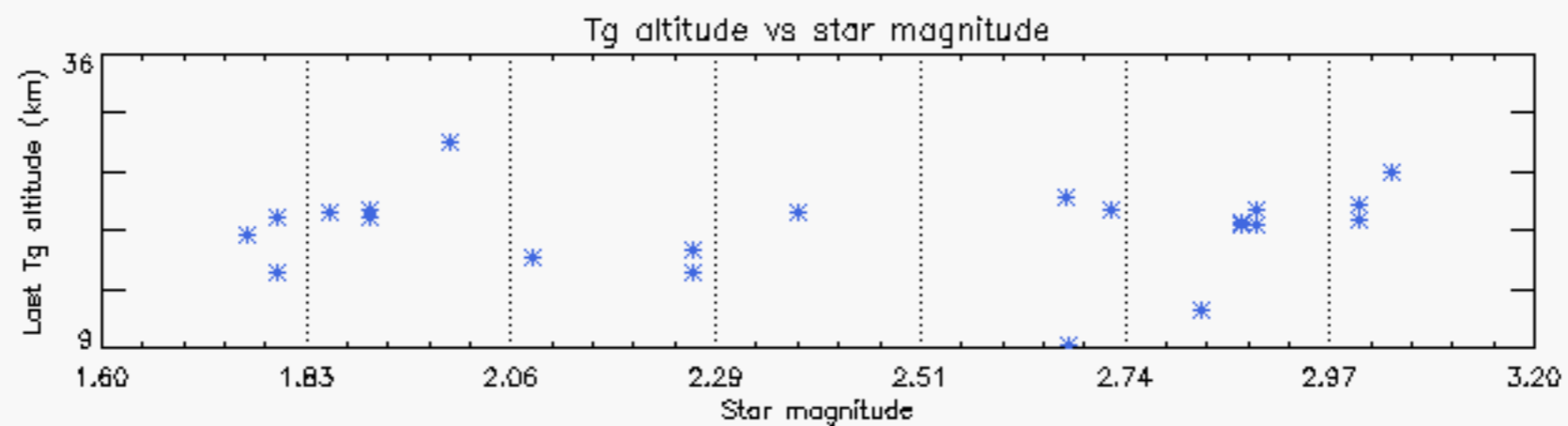
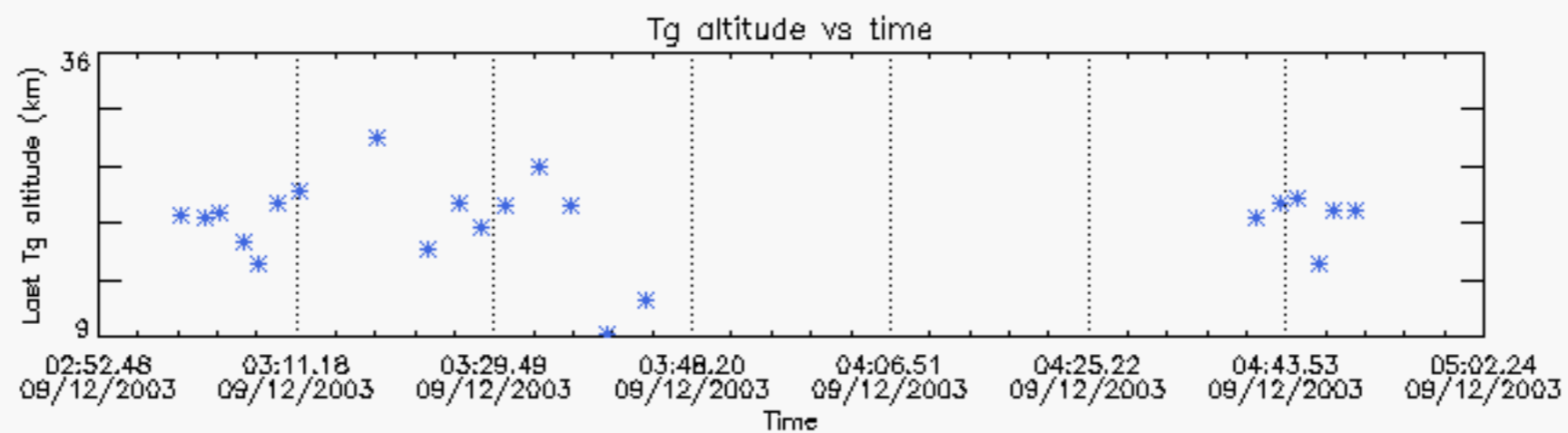




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20031201_052111_000061942022_00091_09163_0248.N1

1	-4379.2	01-DEC-2003	05:21:11	Dark	45.0	165	34Gam Eri	2.95	3200	occ	90	0	9163
2	-4285.0	01-DEC-2003	05:22:45	Dark	62.5	7	19Bet Ori	0.10	14000	occ	125	0	9163
3	-4102.1	01-DEC-2003	05:25:48	Dark	64.0	30	46Eps Ori	1.69	30000	occ	128	0	9163
4	-3938.0	01-DEC-2003	05:28:32	Dark	63.0	27	24Gam Ori	1.64	26000	occ	126	0	9163
5	-3804.3	01-DEC-2003	05:30:46	Bright	52.0	13	87Alp Tau	0.87	3800	occ	104	0	9163
6	-3708.7	01-DEC-2003	05:32:21	Bright	40.5	146	25Eta Tau	2.87	15200	occ	81	0	9163
7	-3567.0	01-DEC-2003	05:34:43	Bright	41.5	150	44Zet Per	2.89	28000	occ	83	0	9163
8	-3433.2	01-DEC-2003	05:36:57	Bright	39.0	79	26Bet Per	2.31	13100	occ	78	0	9163
9	-3299.9	01-DEC-2003	05:39:10	Bright	38.5	175	39Del Per	3.01	19400	occ	77	0	9163
10	-3219.4	01-DEC-2003	05:40:31	Bright	37.5	160	23Gam Per	2.93	4700	occ	75	0	9163
11	-3080.2	01-DEC-2003	05:42:50	Bright	36.0	110	37Del Cas	2.68	8900	occ	72	0	9163
12	-2616.4	01-DEC-2003	05:50:34	Bright	39.0	49	1Alp UMi	1.99	6300	occ	78	0	9163
13	-2335.8	01-DEC-2003	05:55:14	Bright	35.0	60	7Bet UMi	2.08	3950	occ	70	0	9163
14	-2215.0	01-DEC-2003	05:57:15	Bright	45.5	36	50Alp UMa	1.80	6300	occ	91	0	9163
15	-2118.3	01-DEC-2003	05:58:52	Bright	47.0	82	48Bet UMa	2.37	10600	occ	94	0	9163
16	-2022.8	01-DEC-2003	06:00:27	Bright	56.0	32	77Eps UMa	1.76	11000	occ	112	0	9163
17	-1898.7	01-DEC-2003	06:02:31	Bright	53.0	39	85Eta UMa	1.85	24000	occ	106	0	9163
18	-1724.9	01-DEC-2003	06:05:25	Bright	52.0	180	27Gam Boo	3.04	8000	occ	104	0	9163
19	-1544.0	01-DEC-2003	06:08:26	Bright	35.5	83		2.38	11000	occ	71	0	9163
20	-1392.6	01-DEC-2003	06:10:57	Bright	35.5	3	16Alp Boo	-0.05	4250	occ	71	0	9163
21	-1177.5	01-DEC-2003	06:14:32	Bright	72.0	96	68Del Leo	2.56	9300	occ	144	0	9163
22	-919.6	01-DEC-2003	06:18:50	Bright	44.5	121	29Gam Vir	2.74	7200	occ	89	0	9163
23	-832.0	01-DEC-2003	06:20:18	Bright	40.0	15	67Alp Vir	0.98	28000	occ	80	0	9163
24	-635.0	01-DEC-2003	06:23:35	Dark	48.0	163	7Del Crv	2.94	11000	occ	96	0	9163
25	-537.6	01-DEC-2003	06:25:12	Dark	50.0	106	9Bet Crv	2.65	5600	occ	100	0	9163
26	-416.6	01-DEC-2003	06:27:13	Dark	42.0	123	Iot Cen	2.75	10200	occ	84	0	9163
27	-174.4	01-DEC-2003	06:31:16	Dark	40.0	77	Eps Cen	2.30	28000	occ	80	0	9163
28	-75.6	01-DEC-2003	06:32:54	Dark	39.5	10	Bet Cen	0.61	28000	occ	79	0	9163
29	39.6	01-DEC-2003	06:34:50	Dark	44.0	12	Alp1Cru	0.77	30000	occ	88	0	9164
30	202.1	01-DEC-2003	06:37:32	Dark	39.0	124	The Car	2.76	30000	occ	78	0	9164
31	335.6	01-DEC-2003	06:39:46	Dark	59.5	0		0.00	0	occ	119	0	9164
32	481.9	01-DEC-2003	06:42:12	Dark	43.5	41	Eps Car	1.86	4100	occ	87	0	9164
33	601.1	01-DEC-2003	06:44:11	Dark	52.5	34	Gam2Vel	1.79	23000	occ	105	0	9164
34	803.4	01-DEC-2003	06:47:33	Dark	51.0	2	Alp Car	-0.74	7000	occ	102	0	9164
35	914.2	01-DEC-2003	06:49:24	Dark	66.0	117	Pi Pup	2.71	3800	occ	132	0	9164
36	1144.0	01-DEC-2003	06:53:14	Dark	67.0	23	21Eps CMa	1.50	26000	occ	134	0	9164
37	1273.4	01-DEC-2003	06:55:23	Dark	75.5	179	240mi2CMa	3.03	24000	occ	151	0	9164
38	1503.1	01-DEC-2003	06:59:13	Dark	67.0	47	2Bet CMa	1.98	28000	occ	134	0	9164
39	1657.2	01-DEC-2003	07:01:47	Dark	47.0	165	34Gam Eri	2.95	3200	occ	94	0	9164
40	1751.2	01-DEC-2003	07:03:21	Dark	65.0	7	19Bet Ori	0.10	14000	occ	130	0	9164

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1	-4102.2	01-DEC-2003	07:06:24	Dark	63.5	30	46Eps Ori	1.69	30000	occ	127	0	9164
2	-3938.5	01-DEC-2003	07:09:07	Dark	61.5	27	24Gam Ori	1.64	26000	occ	123	0	9164
3	-3804.3	01-DEC-2003	07:11:22	Bright	57.0	13	87Alp Tau	0.87	3800	occ	114	0	9164
4	-3709.0	01-DEC-2003	07:12:57	Bright	39.0	146	25Eta Tau	2.87	15200	occ	78	0	9164
5	-3566.6	01-DEC-2003	07:15:19	Bright	40.5	150	44Zet Per	2.89	28000	occ	81	0	9164
6	-3432.6	01-DEC-2003	07:17:33	Bright	38.5	79	26Bet Per	2.31	13100	occ	77	0	9164
7	-3299.5	01-DEC-2003	07:19:46	Bright	38.0	175	39Del Per	3.01	19400	occ	76	0	9164
8	-3219.4	01-DEC-2003	07:21:06	Bright	37.0	160	23Gam Per	2.93	4700	occ	74	0	9164
9	-3079.8	01-DEC-2003	07:23:26	Bright	36.0	110	37Del Cas	2.68	8900	occ	72	0	9164
10	-2615.7	01-DEC-2003	07:31:10	Bright	37.5	49	1Alp UMi	1.99	6300	occ	75	0	9164
11	-2335.5	01-DEC-2003	07:35:50	Bright	35.0	60	7Bet UMi	2.08	3950	occ	70	0	9164
12	-2215.1	01-DEC-2003	07:37:51	Bright	45.0	36	50Alp UMa	1.80	6300	occ	90	0	9164
13	-2118.5	01-DEC-2003	07:39:27	Bright	45.5	82	48Bet UMa	2.37	10600	occ	91	0	9164
14	-2022.4	01-DEC-2003	07:41:03	Bright	40.5	32	77Eps UMa	1.76	11000	occ	81	0	9164
15	-1898.4	01-DEC-2003	07:43:07	Bright	39.5	39	85Eta UMa	1.85	24000	occ	79	0	9164
16	-1724.6	01-DEC-2003	07:46:01	Bright	35.0	180	27Gam Boo	3.04	8000	occ	70	0	9164
17	-1543.4	01-DEC-2003	07:49:02	Bright	36.0	83		2.38	11000	occ	72	0	9164
18	-1392.2	01-DEC-2003	07:51:34	Bright	36.5	3	16Alp Boo	-0.05	4250	occ	73	0	9164
19	-1176.6	01-DEC-2003	07:55:09	Bright	76.0	96	68Del Leo	2.56	9300	occ	152	0	9164
20	-918.5	01-DEC-2003	07:59:27	Bright	45.5	121	29Gam Vir	2.74	7200	occ	91	0	9164
21	-831.0	01-DEC-2003	08:00:55	Bright	41.0	15	67Alp Vir	0.98	28000	occ	82	0	9164
22	-634.1	01-DEC-2003	08:04:12	Dark	48.0	163	7Del Crv	2.94	11000	occ	96	0	9164
23	-536.5	01-DEC-2003	08:05:49	Dark	49.0	106	9Bet Crv	2.65	5600	occ	98	0	9164
24	-416.0	01-DEC-2003	08:07:50	Dark	42.5	123	Iot Cen	2.75	10200	occ	85	0	9164
25	-173.7	01-DEC-2003	08:11:52	Dark	41.0	77	Eps Cen	2.30	28000	occ	82	0	9164
26	-75.4	01-DEC-2003	08:13:30	Dark	46.5	10	Bet Cen	0.61	28000	occ	93	0	9164

27; 40.3; 01-DEC-2003 08:15:26; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0; 9165
 28; 202.5; 01-DEC-2003 08:18:08; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9165
 29; 338.5; 01-DEC-2003 08:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9165
 30; 482.5; 01-DEC-2003 08:22:48; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0; 9165
 31; 602.2; 01-DEC-2003 08:24:48; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0; 9165
 32; 803.4; 01-DEC-2003 08:28:09; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0; 9165
 33; 915.6; 01-DEC-2003 08:30:02; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0; 9165
 34; 1144.7; 01-DEC-2003 08:33:51; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0; 9165
 35; 1274.4; 01-DEC-2003 08:36:00; Dark ; 73.5; 179; 240mi2CMa ; 3.03; 24000;occ; 147; 0; 9165
 36; 1529.7; 01-DEC-2003 08:40:16; Dark ; 100.5; 1; 9Alp CMa ; -1.44; 11000;occ; 201; 0; 9165

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 7; -3566.9; 01-DEC-2003 08:55:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0; 9165
 8; -3433.3; 01-DEC-2003 08:58:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0; 9165
 9; -3299.9; 01-DEC-2003 09:00:22; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0; 9165
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 12; -2615.7; 01-DEC-2003 09:11:46; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0; 9165
 13; -2335.5; 01-DEC-2003 09:16:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0; 9165
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 16; -2022.4; 01-DEC-2003 09:21:39; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0; 9165
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 18; -1724.6; 01-DEC-2003 09:26:37; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0; 9165
 19; -1543.4; 01-DEC-2003 09:29:38; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0; 9165
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 26; -75.5; 01-DEC-2003 09:54:06; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0; 9165
 27; 40.6; 01-DEC-2003 09:56:02; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0; 9166
 28; 203.1; 01-DEC-2003 09:58:45; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0; 9166
 29; 341.4; 01-DEC-2003 10:01:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9166
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 32; 803.8; 01-DEC-2003 10:08:46; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0; 9166
 33; 916.9; 01-DEC-2003 10:10:39; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0; 9166
 34; 1145.2; 01-DEC-2003 10:14:27; Dark ; 69.5; 23; 21Eps CMa ; 1.50; 26000;occ; 139; 0; 9166
 35; 1275.0; 01-DEC-2003 10:16:37; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0; 9166
 36; 1530.0; 01-DEC-2003 10:20:52; Dark ; 93.0; 1; 9Alp CMa ; -1.44; 11000;occ; 186; 0; 9166
 37; 1751.3; 01-DEC-2003 10:24:33; Dark ; 21.0; 7; 19Bet Ori ; 0.10; 14000;occ; 42; 0; 9166

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 6; -3566.5; 01-DEC-2003 10:36:31; Bright; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0; 9166
 7; -3432.4; 01-DEC-2003 10:38:45; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0; 9166
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 9; -3219.3; 01-DEC-2003 10:42:18; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0; 9166
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 12; -2335.2; 01-DEC-2003 10:57:02; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0; 9166
 13; -2215.6; 01-DEC-2003 10:59:02; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0; 9166
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 16; -1897.9; 01-DEC-2003 11:04:20; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0; 9166
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 18; -1542.9; 01-DEC-2003 11:10:15; Bright; 34.5; 83; ; 2.38; 11000;occ; 69; 0; 9166
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22; -534.9; 01-DEC-2003 11:27:03; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0; 9166
23; -414.9; 01-DEC-2003 11:29:03; Dark ; 40.5; 123; Iot Cen ; 2.75; 10200;occ; 81; 0; 9166
24; -173.0; 01-DEC-2003 11:33:05; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; 9166
25; -74.9; 01-DEC-2003 11:34:43; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0; 9166
26; 41.4; 01-DEC-2003 11:36:39; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0; 9167
27; 203.9; 01-DEC-2003 11:39:22; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9167
28; 344.4; 01-DEC-2003 11:41:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9167
29; 484.2; 01-DEC-2003 11:44:02; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0; 9167
30; 604.2; 01-DEC-2003 11:46:02; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0; 9167
31; 805.5; 01-DEC-2003 11:49:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0; 9167
32; 918.0; 01-DEC-2003 11:51:16; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0; 9167
33; 1146.2; 01-DEC-2003 11:55:04; Dark ; 68.0; 23; 21Eps CMA ; 1.50; 26000;occ; 136; 0; 9167
34; 1275.4; 01-DEC-2003 11:57:13; Dark ; 75.0; 179; 240mi2CMA ; 3.03; 24000;occ; 150; 0; 9167
35; 1530.0; 01-DEC-2003 12:01:28; Dark ; 99.0; 1; 9Alp CMA ; -1.44; 11000;occ; 198; 0; 9167
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7;-3566.3; 01-DEC-2003 13:57:43; Bright; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0; 9168
8;-3432.2; 01-DEC-2003 13:59:57; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0; 9168
9;-3299.7; 01-DEC-2003 14:02:10; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0; 9168
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16;-2023.5; 01-DEC-2003 14:23:26; Bright; 42.5; 32; 77Eps UMA ; 1.76; 11000;occ; 85; 0; 9168
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23; -533.7; 01-DEC-2003 14:48:16; Dark ; 48.5; 106; 9Bet Crv ; 2.65; 5600;occ; 97; 0; 9168
24; -414.9; 01-DEC-2003 14:50:15; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0; 9168
25; -173.6; 01-DEC-2003 14:54:16; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0; 9168
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27; 41.0; 01-DEC-2003 14:57:50; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0; 9169
28; 204.7; 01-DEC-2003 15:00:34; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0; 9169
29; 350.2; 01-DEC-2003 15:03:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0; 9169
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33; 918.6; 01-DEC-2003 15:12:28; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0; 9169
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