GOMOS Daily Report 04-JUL-2004

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	06JUL2004 11:49:18
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (04JUL2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05JUL2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	1

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

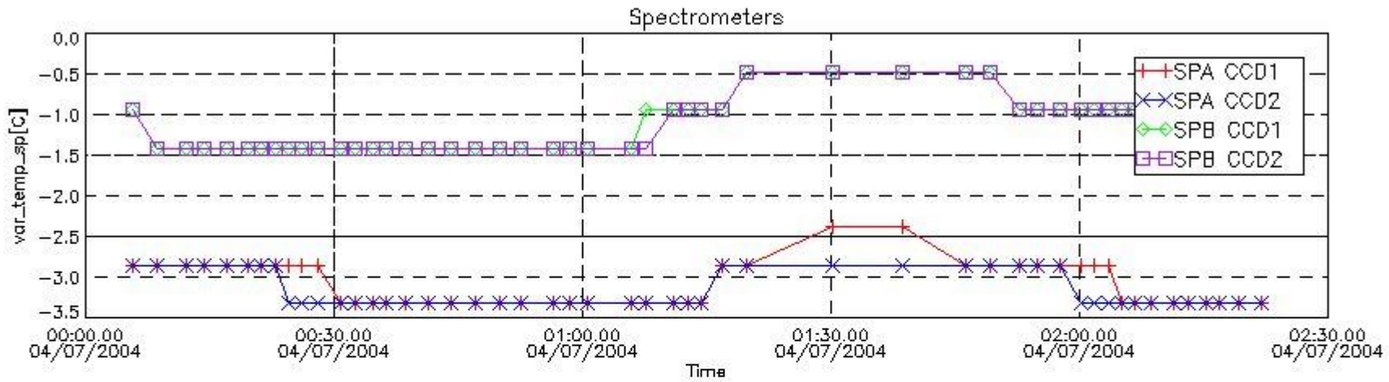
2.1 Level 0 products arrived in PCF (see template here)

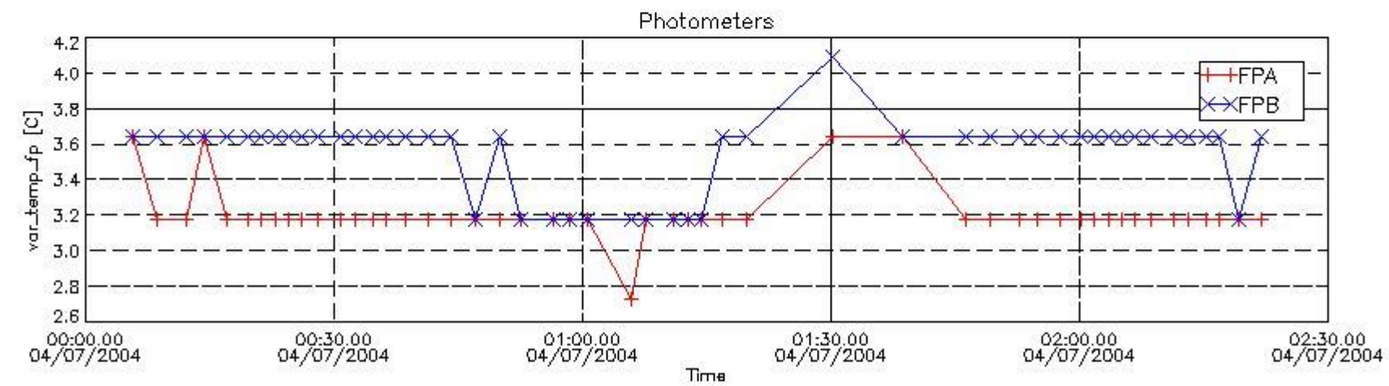
2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20040704_000542_000000532028_00174_12252_0001.N1	04-JUL-2004 00:05:42	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	12252	No
GOM_TRA_1PNPDE20040704_000842_000000402028_00174_12252_0002.N1	04-JUL-2004 00:08:42	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	12252	No
GOM_TRA_1PNPDE20040704_001207_000000572028_00174_12252_0003.N1	04-JUL-2004 00:12:07	Dark	57.000	63	Bet Gru	2.1500	2800.0	114	12252	No
GOM_TRA_1PNPDE20040704_001416_000000942028_00174_12252_0004.N1	04-JUL-2004 00:14:16	Twilight	94.000	18	24Alp PsA	1.1660	9700.0	188	12252	No
GOM_TRA_1PNPDE20040704_001700_000000572028_00174_12252_0005.N1	04-JUL-2004 00:17:00	Bright	56.500	172	Gam Gru	3.0030	13100.	113	12252	No
GOM_TRA_1PNPDE20040704_001939_000000402028_00174_12252_0006.N1	04-JUL-2004 00:19:39	Bright	39.500	141	Bet Ara	2.8400	4600.0	79	12252	No
GOM_TRA_1PNPDE20040704_002107_000000392028_00174_12252_0007.N1	04-JUL-2004 00:21:07	Bright	39.000	147	Alp Ara	2.8770	26000.	78	12252	No
GOM_TRA_1PNPDE20040704_002255_000000442028_00174_12252_0008.N1	04-JUL-2004 00:22:55	Bright	44.000	40	The Sco	1.8590	7100.0	88	12252	No
GOM_TRA_1PNPDE20040704_002433_000000462028_00174_12252_0009.N1	04-JUL-2004 00:24:33	Bright	46.000	25	35Lam Sco	1.6200	28000.	92	12252	No
GOM_TRA_1PNPDE20040704_002601_000000482028_00174_12252_0010.N1	04-JUL-2004 00:26:01	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	12252	No
GOM_TRA_1PNPDE20040704_002804_000000472028_00174_12252_0011.N1	04-JUL-2004 00:28:04	Bright	46.500	155	41Pi Sgr	2.9000	6600.0	93	12252	No
GOM_TRA_1PNPDE20040704_003046_000000392028_00174_12252_0012.N1	04-JUL-2004 00:30:46	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	12252	No
GOM_TRA_1PNPDE20040704_003233_000000382028_00174_12252_0013.N1	04-JUL-2004 00:32:33	Bright	37.500	98	13Zet Oph	2.5710	30000.	75	12252	No
GOM_TRA_1PNPDE20040704_003445_000000412028_00174_12252_0014.N1	04-JUL-2004 00:34:45	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	12252	No
GOM_TRA_1PNPDE20040704_003616_000000392028_00174_12252_0015.N1	04-JUL-2004 00:36:16	Bright	39.000	126	60Bet Oph	2.7700	4250.0	78	12252	No
GOM_TRA_1PNPDE20040704_003836_000000382028_00174_12252_0016.N1	04-JUL-2004 00:38:36	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	12252	No
GOM_TRA_1PNPDE20040704_004124_000000432028_00174_12252_0017.N1	04-JUL-2004 00:41:24	Bright	42.500	127	27Bet Her	2.7810	4700.0	85	12252	No
GOM_TRA_1PNPDE20040704_004405_000000412028_00174_12252_0018.N1	04-JUL-2004 00:44:05	Bright	40.500	133	40Zet Her	2.8070	6000.0	81	12252	No
GOM_TRA_1PNPDE20040704_004705_000000412028_00174_12252_0019.N1	04-JUL-2004 00:47:05	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	12252	No
GOM_TRA_1PNPDE20040704_004957_000000402028_00174_12252_0020.N1	04-JUL-2004 00:49:57	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	12252	No
GOM_TRA_1PNPDE20040704_005227_000000412028_00174_12252_0021.N1	04-JUL-2004 00:52:27	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	12252	No
GOM_TRA_1PNPDE20040704_005633_000000402028_00174_12252_0022.N1	04-JUL-2004 00:56:33	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12252	No
GOM_TRA_1PNPDE20040704_005828_000000452028_00174_12252_0023.N1	04-JUL-2004 00:58:28	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	12252	No
GOM_TRA_1PNPDE20040704_010037_000000412028_00174_12252_0024.N1	04-JUL-2004 01:00:37	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	12252	No
GOM_TRA_1PNPDE20040704_010555_000000482028_00174_12252_0025.N1	04-JUL-2004 01:05:55	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	12252	No
GOM_TRA_1PNPDE20040704_010738_000000432028_00174_12252_0026.N1	04-JUL-2004 01:07:38	Bright	43.000	110	37Del Cas	2.6780	8900.0	86	12252	No
GOM_TRA_1PNPDE20040704_011055_000000442028_00174_12252_0027.N1	04-JUL-2004 01:10:55	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	12252	No
GOM_TRA_1PNPDE20040704_011242_000000402028_00174_12252_0028.N1	04-JUL-2004 01:12:42	Twilight	40.000	175	39Del Per	3.0100	19400.	80	12252	No
GOM_TRA_1PNPDE20040704_011419_000000582028_00174_12252_0029.N1	04-JUL-2004 01:14:19	Twilight	58.000	73	57Gam1And	2.2600	13100.	116	12252	No
GOM_TRA_1PNPDE20040704_011656_000000742028_00174_12252_0030.N1	04-JUL-2004 01:16:56	Twilight	74.000	53	43Bet And	2.0480	3300.0	148	12252	No
GOM_TRA_1PNPDE20040704_011942_000000442028_00174_12252_0031.N1	04-JUL-2004 01:19:42	Twilight	44.000	146	25Eta Tau	2.8730	15200.	88	12252	No
GOM_TRA_1PNPDE20040704_013009_000000442028_00174_12252_0000.N1	04-JUL-2004 01:30:09	Dark	44.000	165	34Gam Eri	2.9500	3200.0	88	12252	Yes
GOM_TRA_1PNPDE20040704_013841_000000412028_00174_12252_0001.N1	04-JUL-2004 01:38:41	Dark	41.000	157	The1Eri	2.9060	9300.0	82	12252	No
GOM_TRA_1PNPDE20040704_014619_000000532028_00175_12253_0002.N1	04-JUL-2004 01:46:19	Dark	52.500	84	Alp Phe	2.3970	4500.0	105	12253	No
GOM_TRA_1PNPDE20040704_014918_000000412028_00175_12253_0003.N1	04-JUL-2004 01:49:18	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	12253	No
GOM_TRA_1PNPDE20040704_015244_000000662028_00175_12253_0004.N1	04-JUL-2004 01:52:44	Dark	66.000	63	Bet Gru	2.1500	2800.0	132	12253	No
GOM_TRA_1PNPDE20040704_015454_000000892028_00175_12253_0005.N1	04-JUL-2004 01:54:54	Twilight	88.500	18	24Alp PsA	1.1660	9700.0	177	12253	No
GOM_TRA_1PNPDE20040704_015737_000000582028_00175_12253_0006.N1	04-JUL-2004 01:57:37	Bright	58.000	172	Gam Gru	3.0030	13100.	116	12253	No
GOM_TRA_1PNPDE20040704_020014_000000422028_00175_12253_0007.N1	04-JUL-2004 02:00:14	Bright	42.000	141	Bet Ara	2.8400	4600.0	84	12253	No
GOM_TRA_1PNPDE20040704_020140_000000442028_00175_12253_0008.N1	04-JUL-2004 02:01:40	Bright	43.500	147	Alp Ara	2.8770	26000.	87	12253	No
GOM_TRA_1PNPDE20040704_020331_000000452028_00175_12253_0009.N1	04-JUL-2004 02:03:31	Bright	45.000	40	The Sco	1.8590	7100.0	90	12253	No
GOM_TRA_1PNPDE20040704_020511_000000452028_00175_12253_0010.N1	04-JUL-2004 02:05:11	Bright	44.500	25	35Lam Sco	1.6200	28000.	89	12253	No
GOM_TRA_1PNPDE20040704_020638_000000542028_00175_12253_0011.N1	04-JUL-2004 02:06:38	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	12253	No
GOM_TRA_1PNPDE20040704_020841_000000462028_00175_12253_0012.N1	04-JUL-2004 02:08:41	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	12253	No
GOM_TRA_1PNPDE20040704_021121_000000402028_00175_12253_0013.N1	04-JUL-2004 02:11:21	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	12253	No
GOM_TRA_1PNPDE20040704_021308_000000402028_00175_12253_0014.N1	04-JUL-2004 02:13:08	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	12253	No
GOM_TRA_1PNPDE20040704_021521_000000392028_00175_12253_0015.N1	04-JUL-2004 02:15:21	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	12253	No
GOM_TRA_1PNPDE20040704_021653_000000392028_00175_12253_0016.N1	04-JUL-2004 02:16:53	Bright	38.500	126	60Bet Oph	2.7700	4250.0	77	12253	No
GOM_TRA_1PNPDE20040704_021912_000000382028_00175_12253_0017.N1	04-JUL-2004 02:19:12	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	12253	No

GOM_TRA_1PNPDE20040704_022200_000000422028_00175_12253_0018.N1	04-JUL-2004 02:22:00	Bright	42.000	127	27Bet Her	2.7810	4700.0	84	12253	No

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



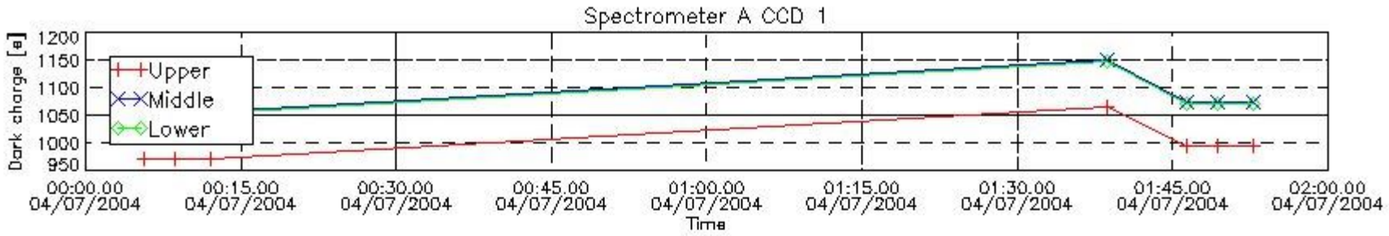


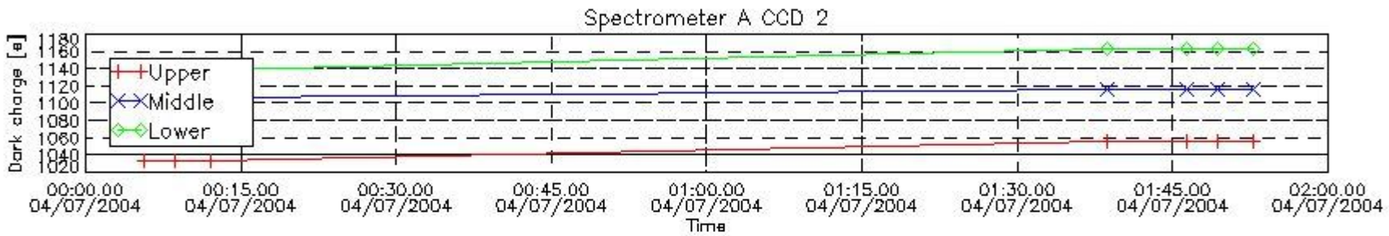
4. Overview of dark signal processing per product

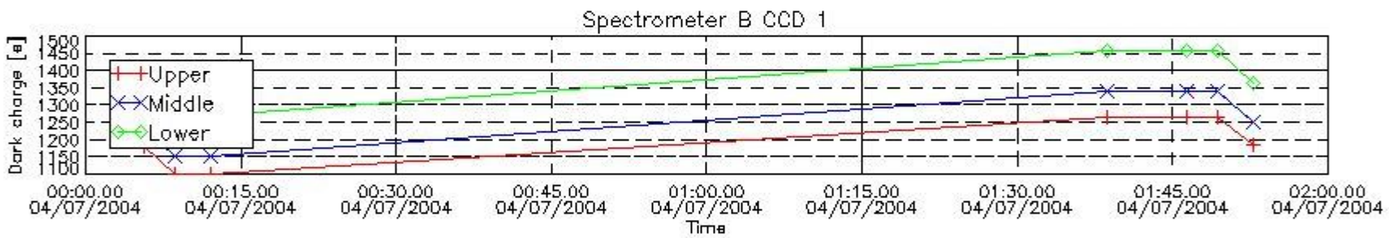
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

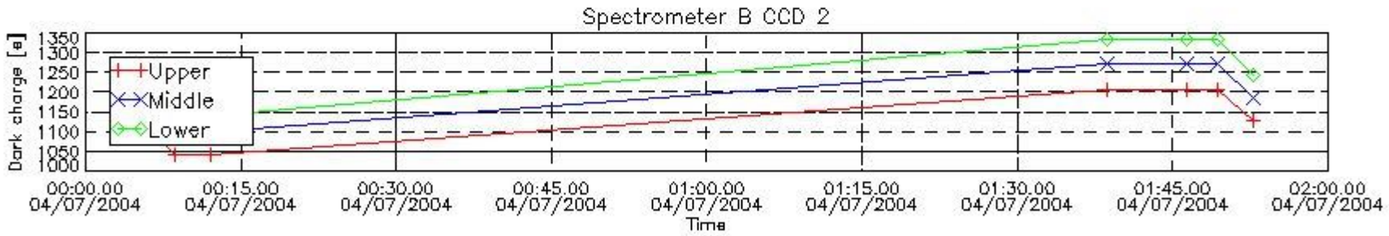
4.1 All products used the DSA observation for the DC computation

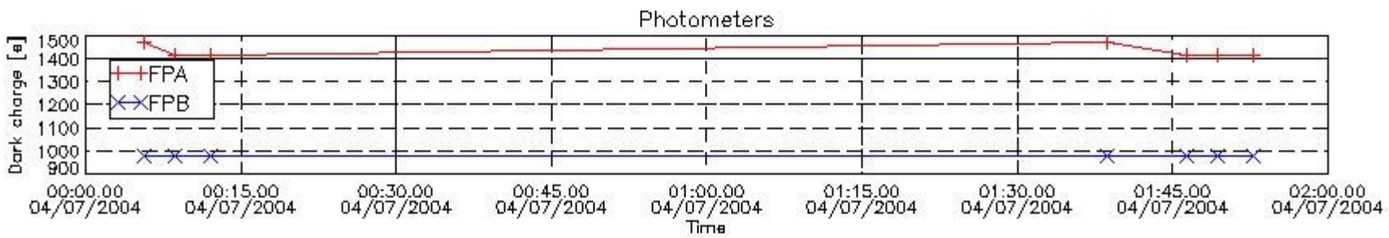
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











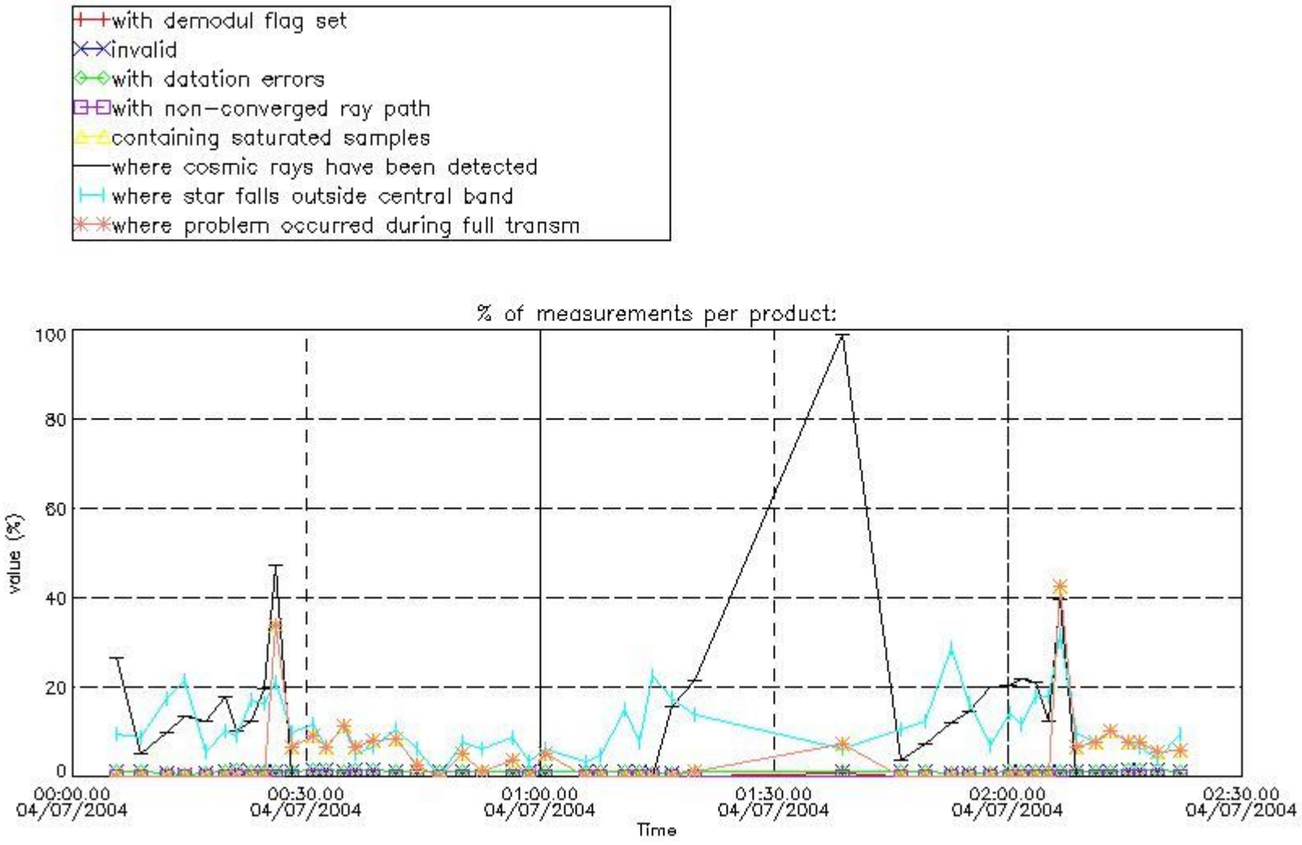
5. Demodulation flag and quality information monitoring

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.

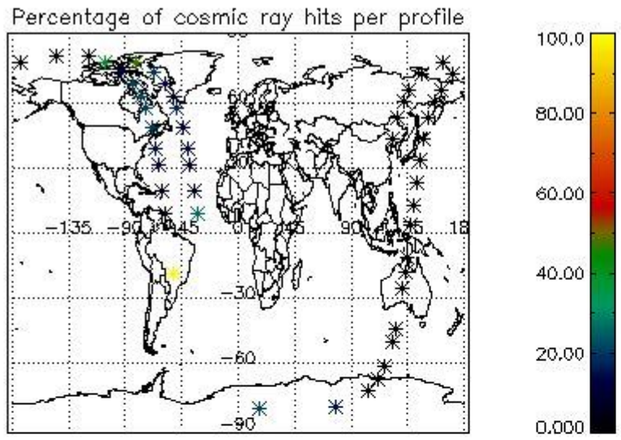
5.1 Percentage of products during reporting period with:

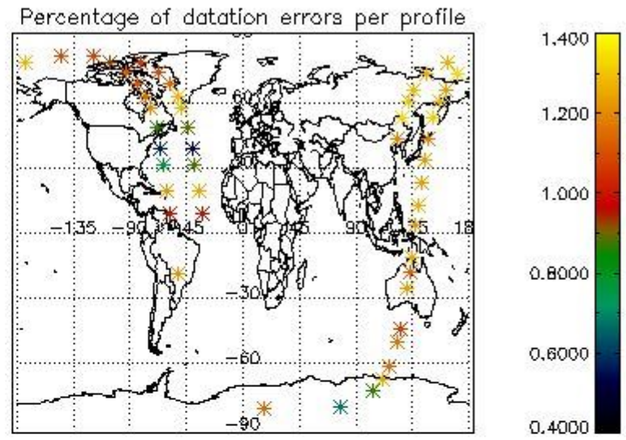
At least one measurement with demodulation flag set:	4.08163 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

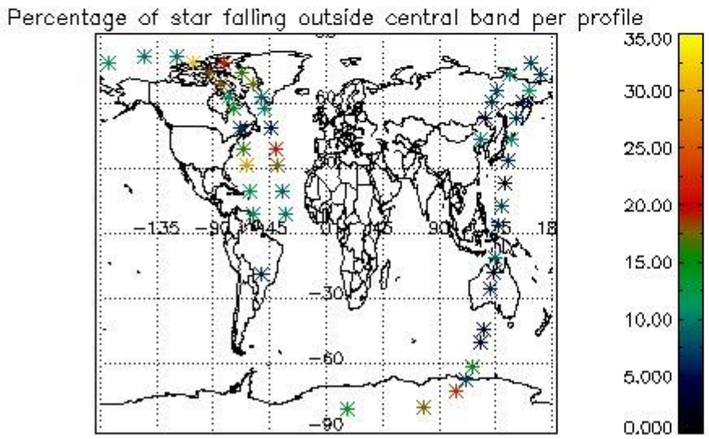
5.2 Plot quality information per product (time dependant)

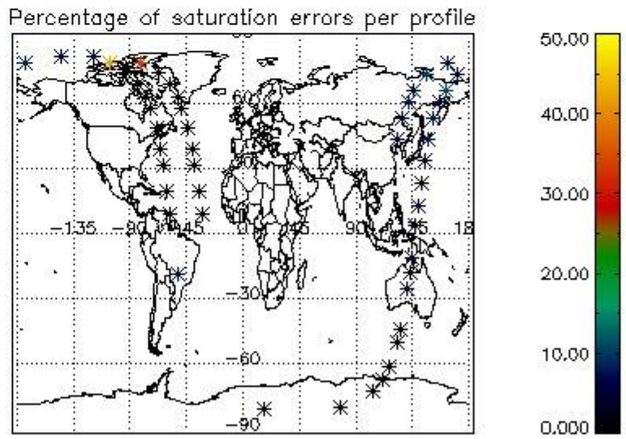


5.3 Plot quality information per product (world map)









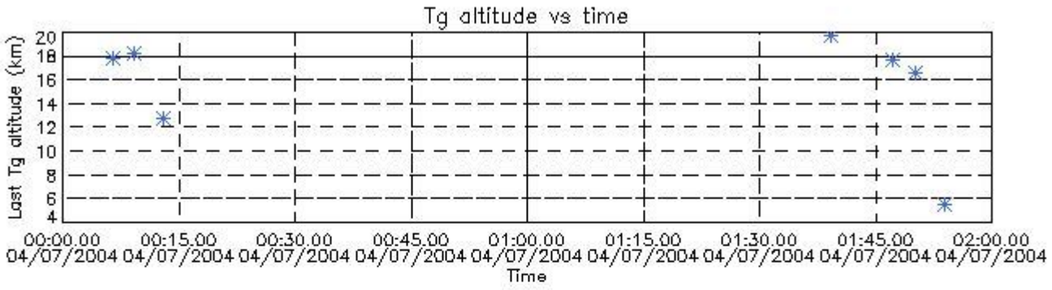
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

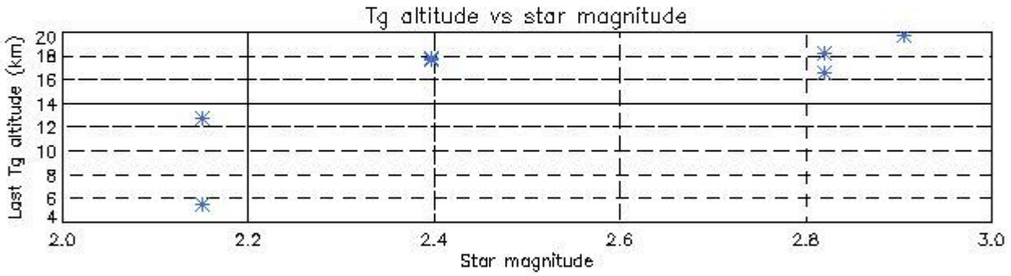
6.1 Statistics on tangent altitude lost:

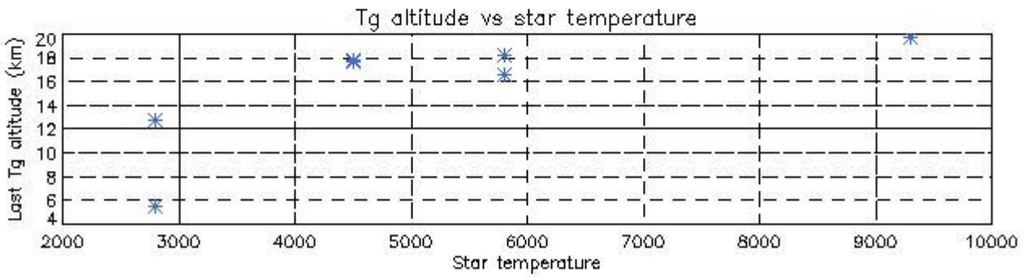
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.463	18.148	13.973
St. deviation:	4.9025	3.9945	3.6667
Maximum:	19.680	25.133	20.619
Minimum:	5.4648	5.0416	10.511
Number of data:	7.0000	36.000	6.0000

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

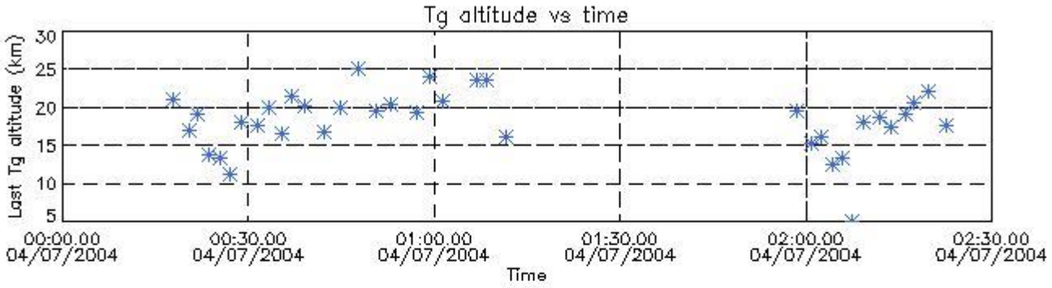


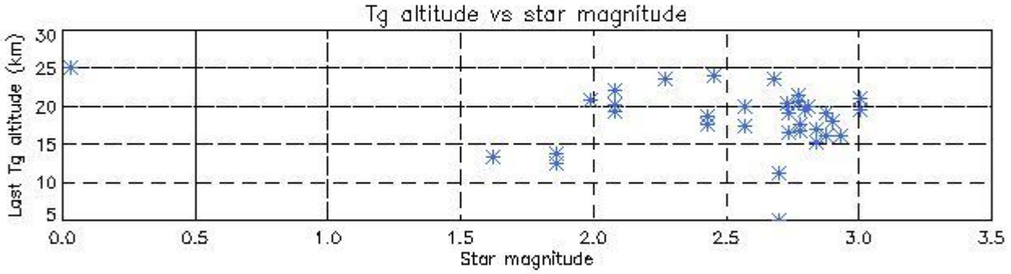


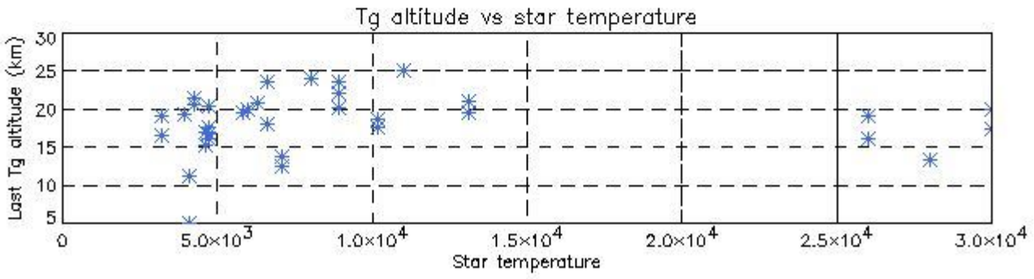


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

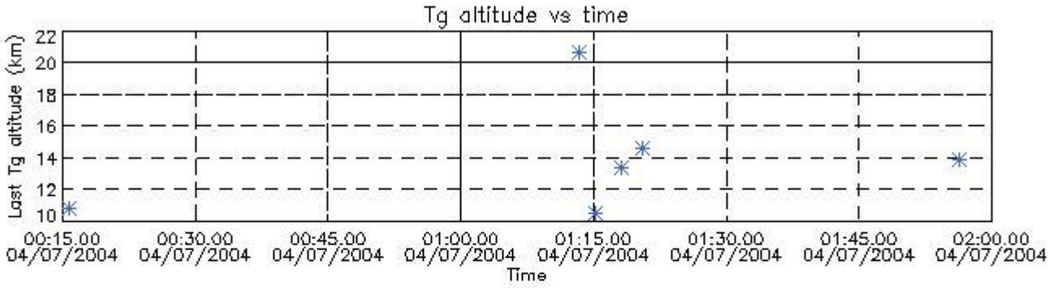


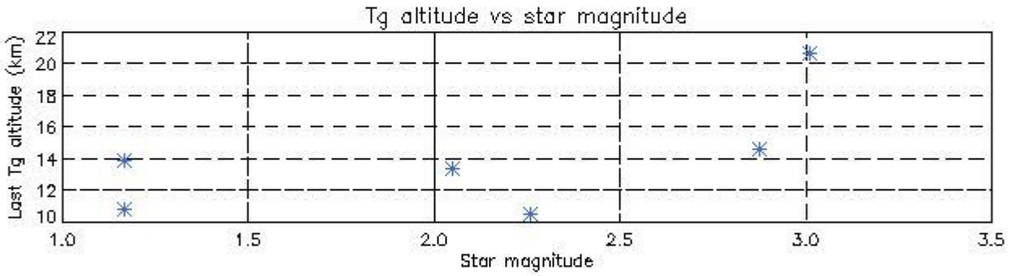


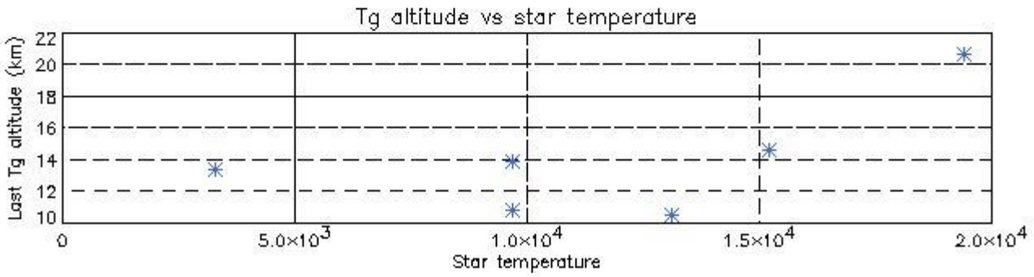


6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



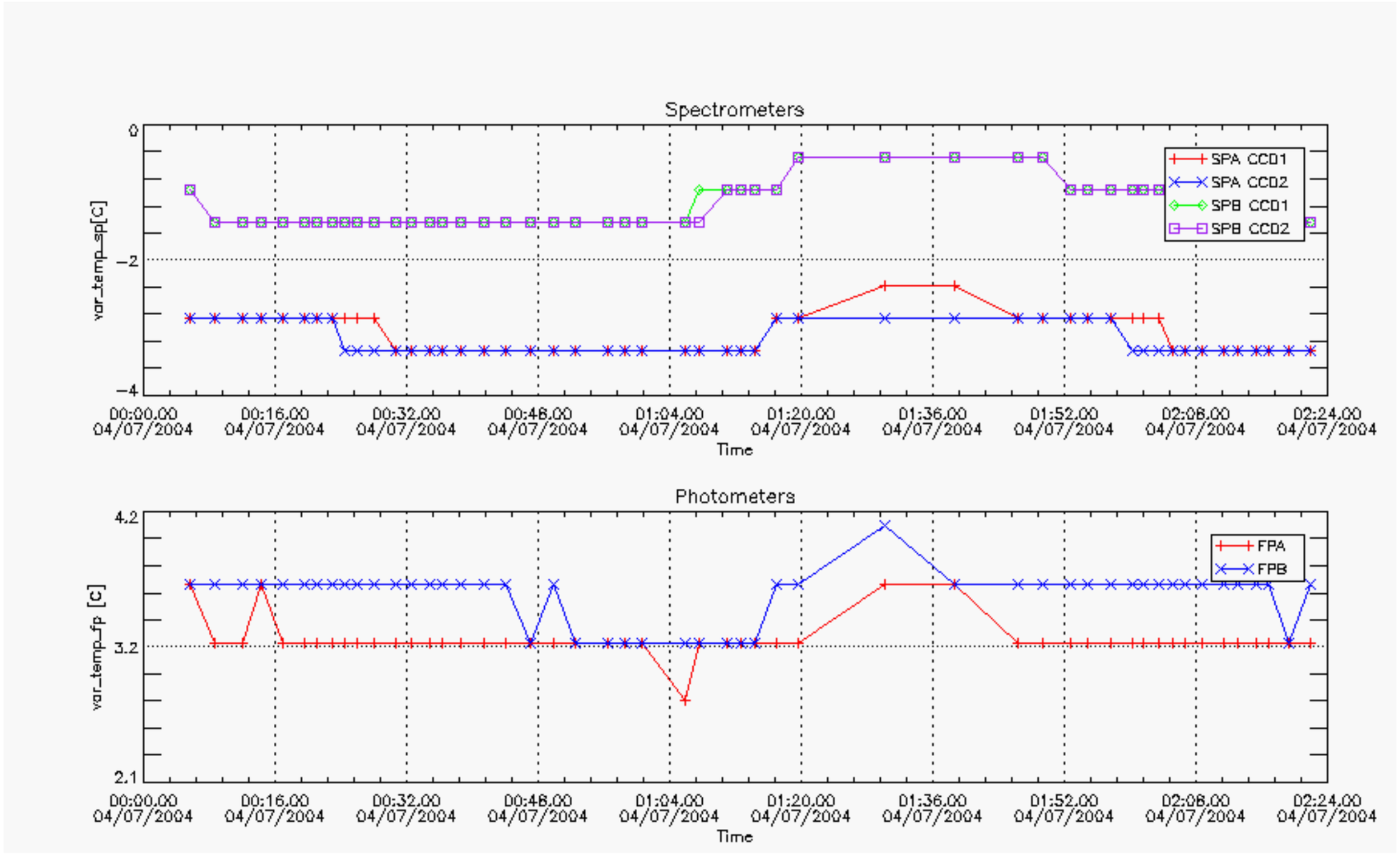


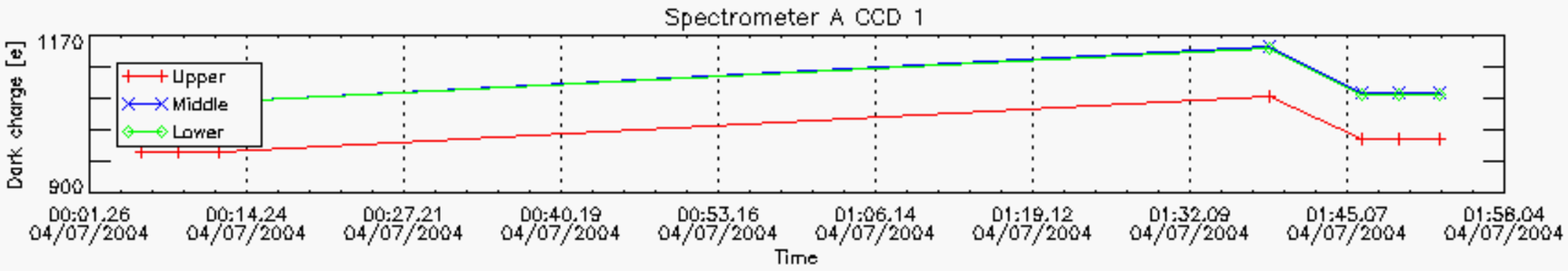


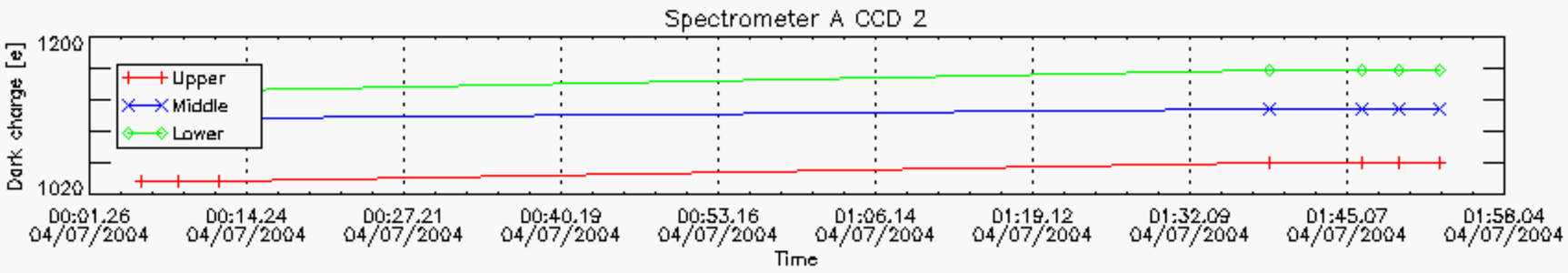
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

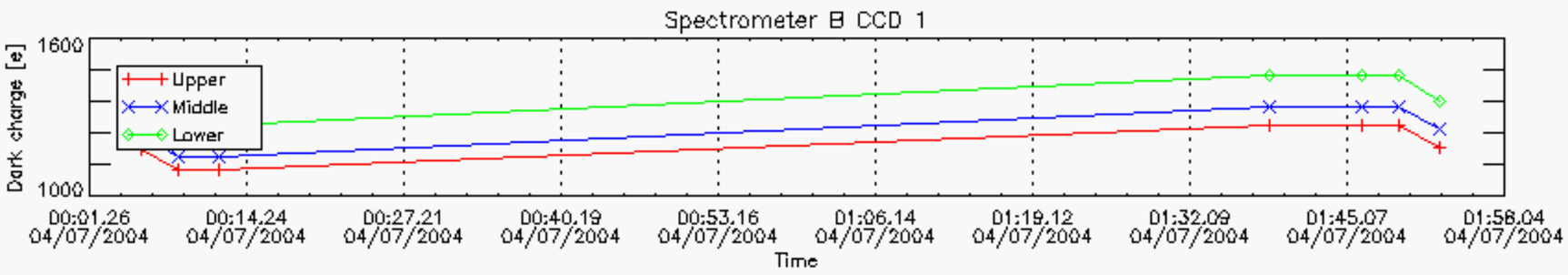
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.
Statistics above 105 km are computed for every occultation, giving four values per occultation: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

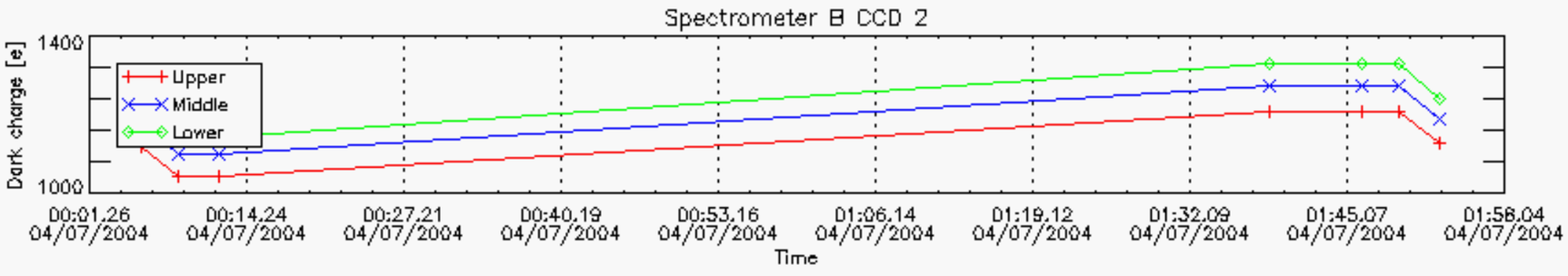
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1462.1	1447.2	1461.0	1446.7
St. deviation:	4.7569	5.5392	7.0300	7.6777
Maximum:	1497.0	1479.0	1508.0	1497.0
Minimum:	1448.0	1440.0	1433.0	1417.0
Number of data:	9050.0	9050.0	41250.	41250.

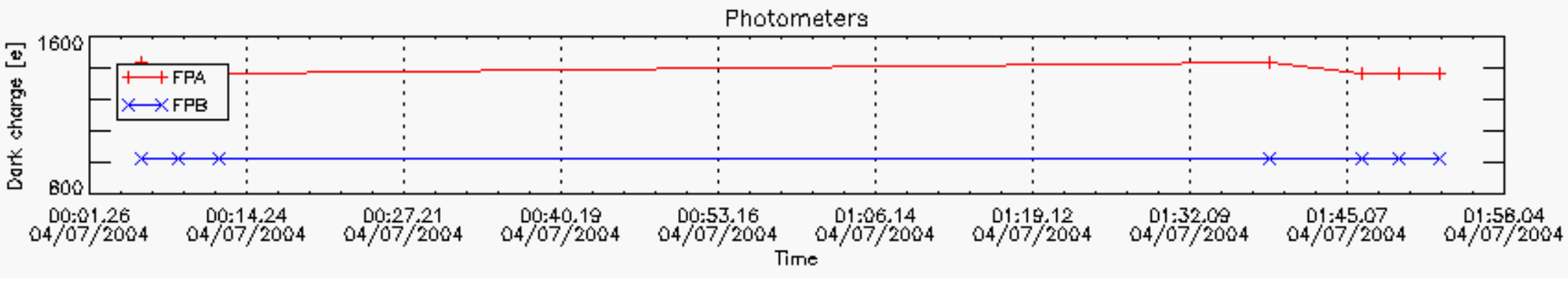

Spectrometers
var_temp_sp[C]
0
−2
−4
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00 04/07/2004
00:16.00 04/07/2004
00:32.00 04/07/2004
00:48.00 04/07/2004
01:04.00 04/07/2004
01:20.00 04/07/2004
01:36.00 04/07/2004
01:52.00 04/07/2004
02:08.00 04/07/2004
02:24.00 04/07/2004
Time
Photometers
var_temp_fp [C]
4.2
3.2
2.1
FPA
FPB
00:00.00 04/07/2004
00:16.00 04/07/2004
00:32.00 04/07/2004
00:48.00 04/07/2004
01:04.00 04/07/2004
01:20.00 04/07/2004
01:36.00 04/07/2004
01:52.00 04/07/2004
02:08.00 04/07/2004
02:24.00 04/07/2004
Time

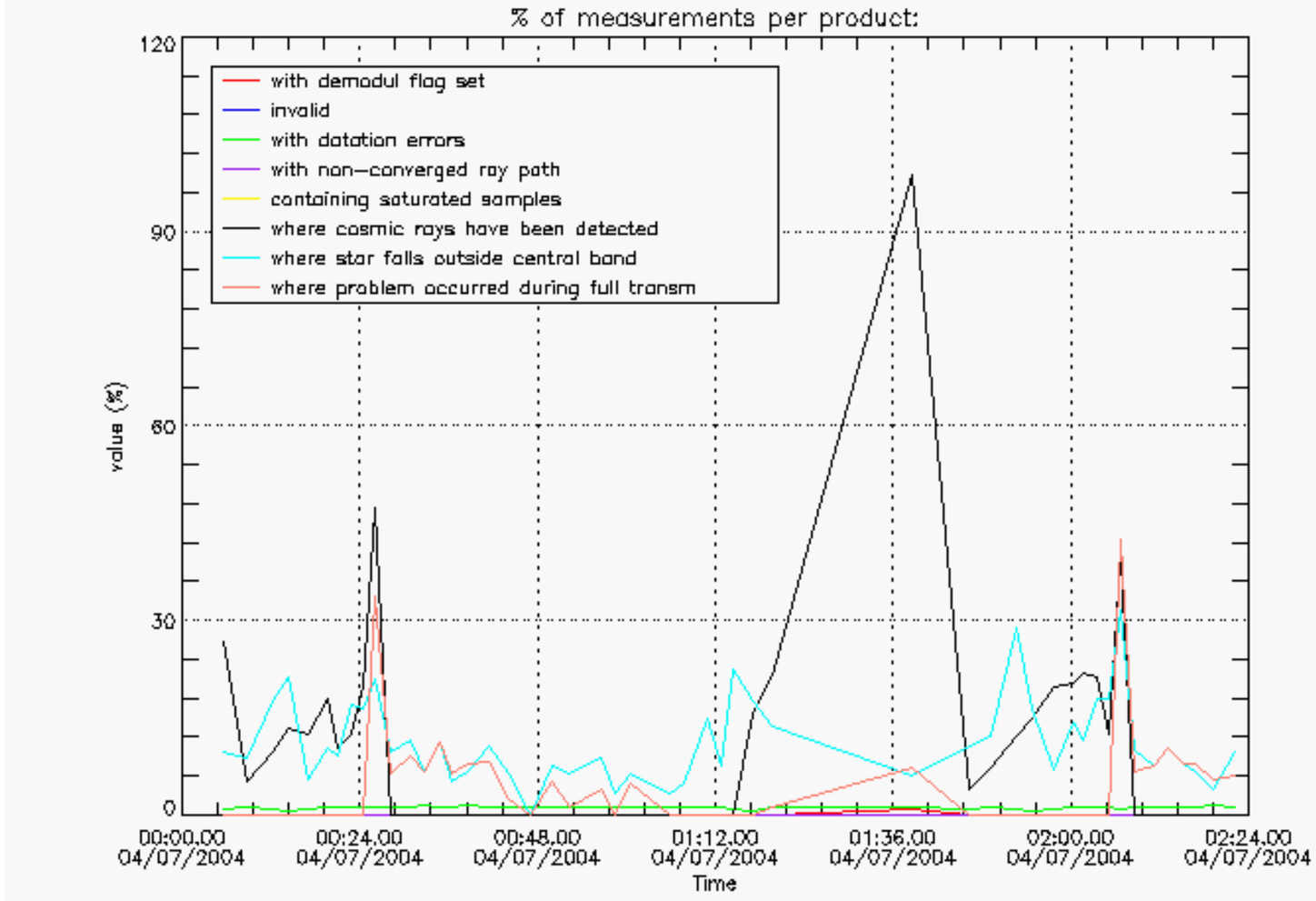

Spectrometer A CCD 1
Dark charge [e]
1170
900
Upper
Middle
Lower
00:01.26 04/07/2004
00:14.24 04/07/2004
00:27.21 04/07/2004
00:40.19 04/07/2004
00:53.16 04/07/2004
01:06.14 04/07/2004
01:19.12 04/07/2004
01:32.09 04/07/2004
01:45.07 04/07/2004
01:58.04 04/07/2004
Time

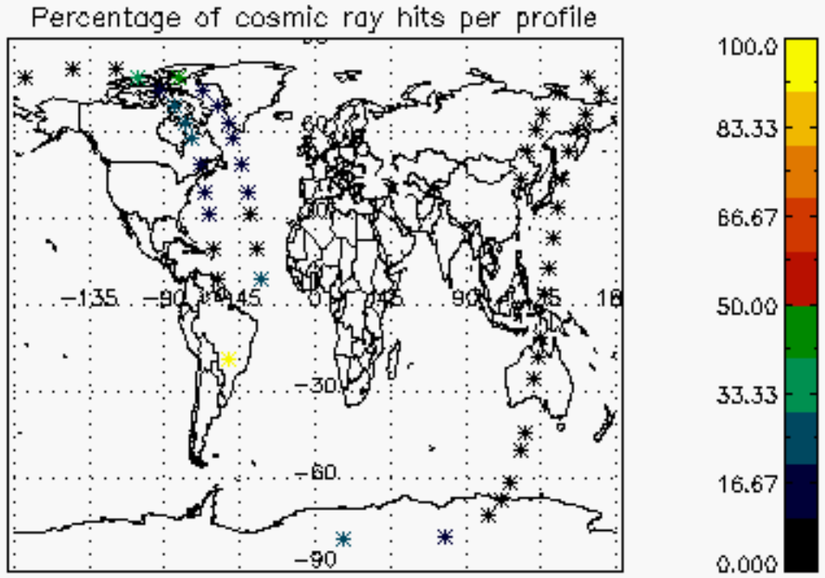

Spectrometer A CCD 2
Dark charge [e]
1200
1020
Upper
Middle
Lower
00:01.26 04/07/2004
00:14.24 04/07/2004
00:27.21 04/07/2004
00:40.19 04/07/2004
00:53.16 04/07/2004
01:06.14 04/07/2004
01:19.12 04/07/2004
01:32.09 04/07/2004
01:45.07 04/07/2004
01:58.04 04/07/2004
Time

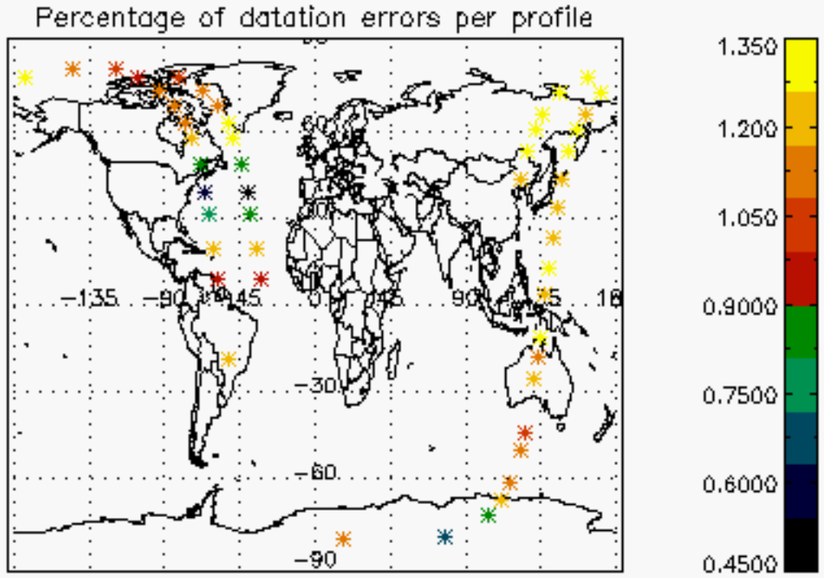

Spectrometer B CCD 1
Dark charge [e]
1600
1000
Upper
Middle
Lower
00:01.26 04/07/2004
00:14.24 04/07/2004
00:27.21 04/07/2004
00:40.19 04/07/2004
00:53.16 04/07/2004
01:06.14 04/07/2004
01:19.12 04/07/2004
01:32.09 04/07/2004
01:45.07 04/07/2004
01:58.04 04/07/2004
Time

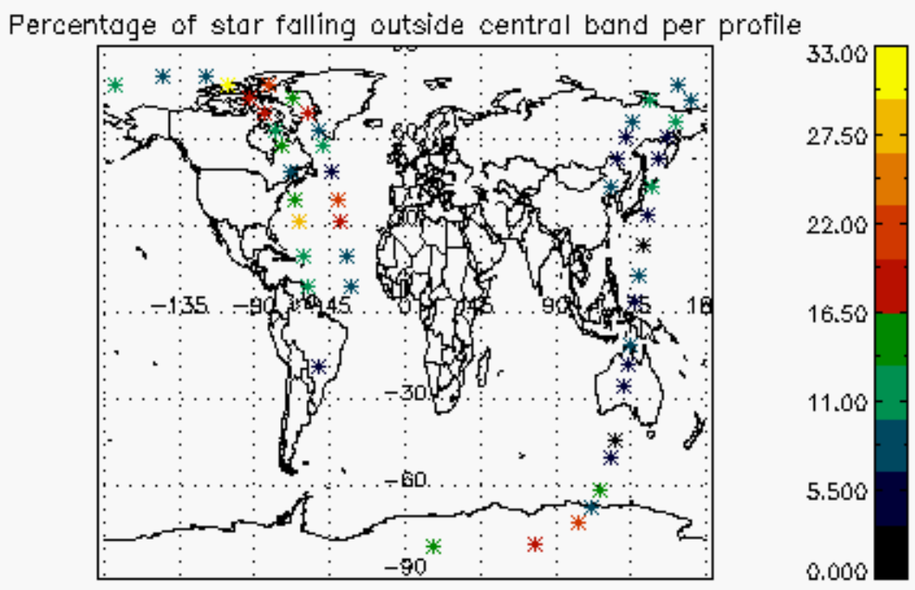

Spectrometer B CCD 2
Dark charge [e]
1400
1000
Upper
Middle
Lower
00:01.26 04/07/2004
00:14.24 04/07/2004
00:27.21 04/07/2004
00:40.19 04/07/2004
00:53.16 04/07/2004
01:06.14 04/07/2004
01:19.12 04/07/2004
01:32.09 04/07/2004
01:45.07 04/07/2004
01:58.04 04/07/2004
Time

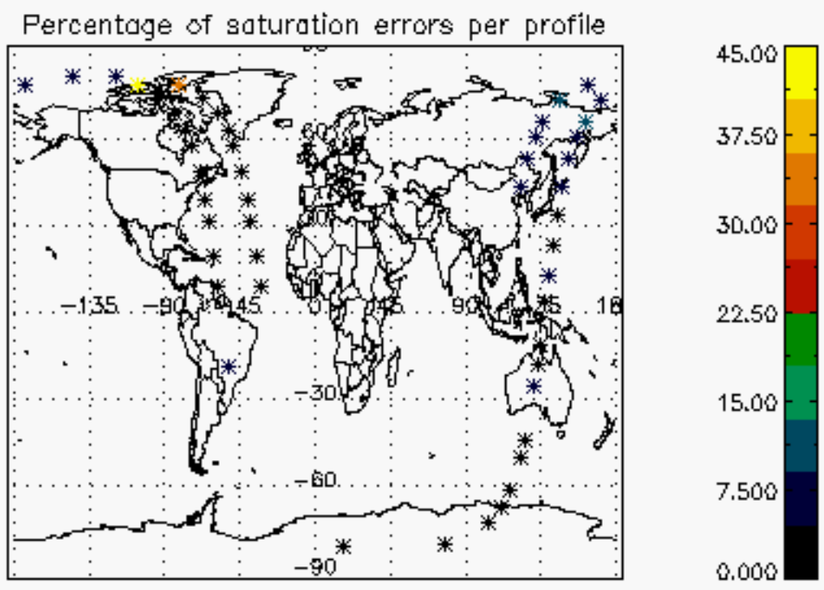

Photometers
Dark charge [e]
1600
800
FPA
FPB
00:01.26 04/07/2004
00:14.24 04/07/2004
00:27.21 04/07/2004
00:40.19 04/07/2004
00:53.16 04/07/2004
01:06.14 04/07/2004
01:19.12 04/07/2004
01:32.09 04/07/2004
01:45.07 04/07/2004
01:58.04 04/07/2004
Time


% of measurements per product:
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
value (%)
120
90
60
30
0
00:00.00 04/07/2004
00:24.00 04/07/2004
00:48.00 04/07/2004
01:12.00 04/07/2004
01:36.00 04/07/2004
02:00.00 04/07/2004
02:24.00 04/07/2004
Time

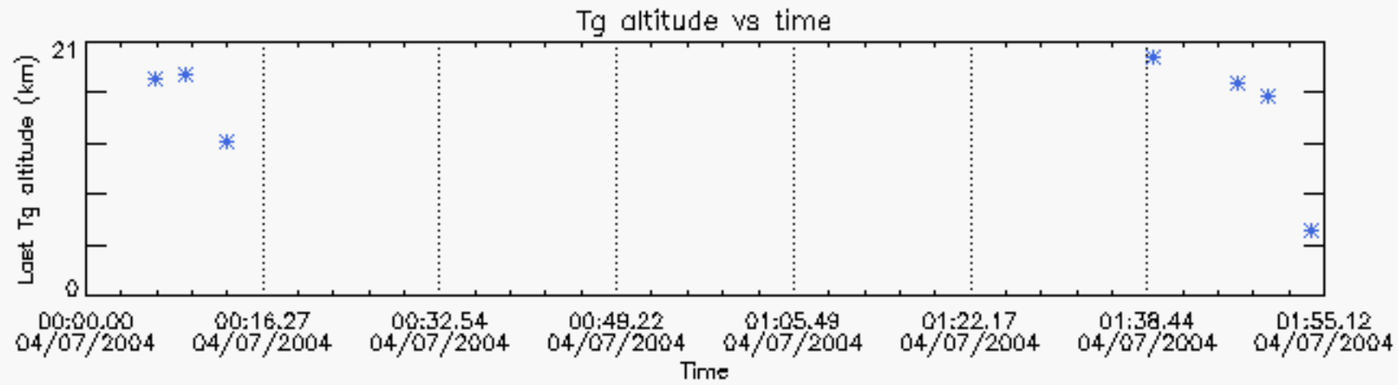

Percentage of cosmic ray hits per profile
100.0
83.33
66.67
50.00
33.33
16.67
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

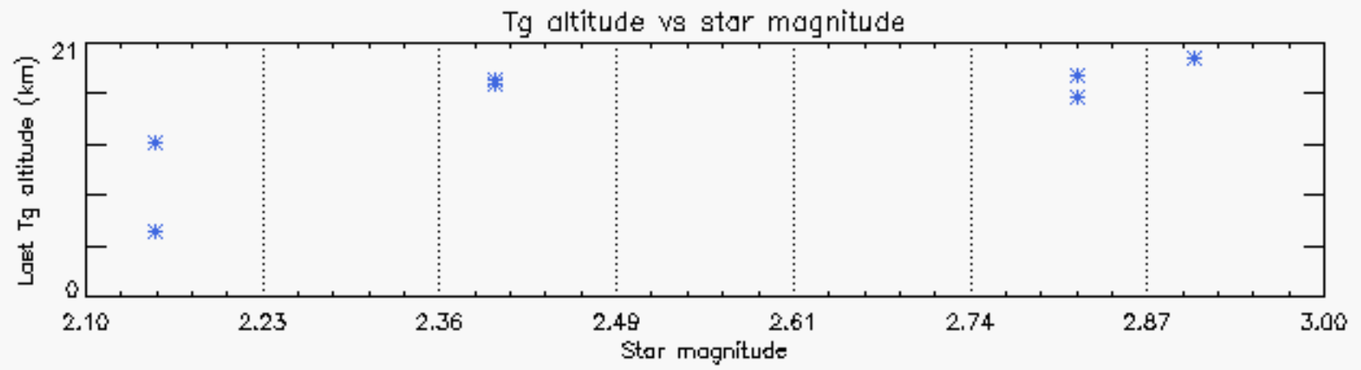

Percentage of datation errors per profile
1.350
1.200
1.050
0.9000
0.7500
0.6000
0.4500
−135
−90
−45
0
45
90
135
180
−30
−60
−90

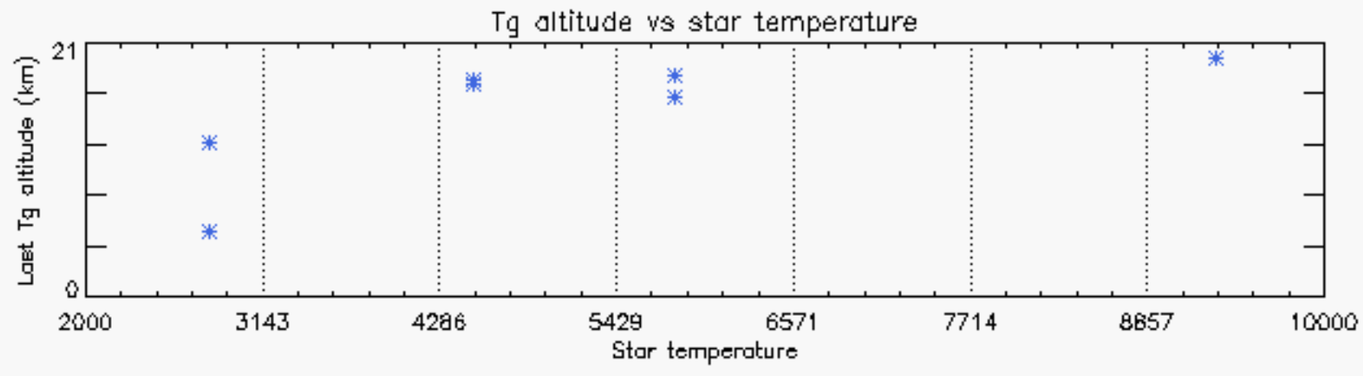

Percentage of star falling outside central band per profile
33.00
27.50
22.00
16.50
11.00
5.500
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
45.00
37.50
30.00
22.50
15.00
7.500
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

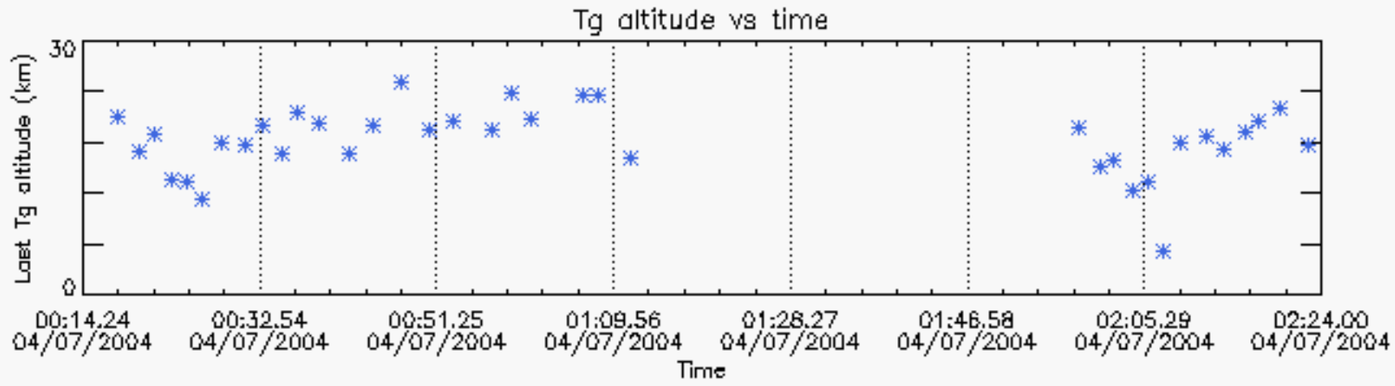
Tangent altitude at which the star is lost

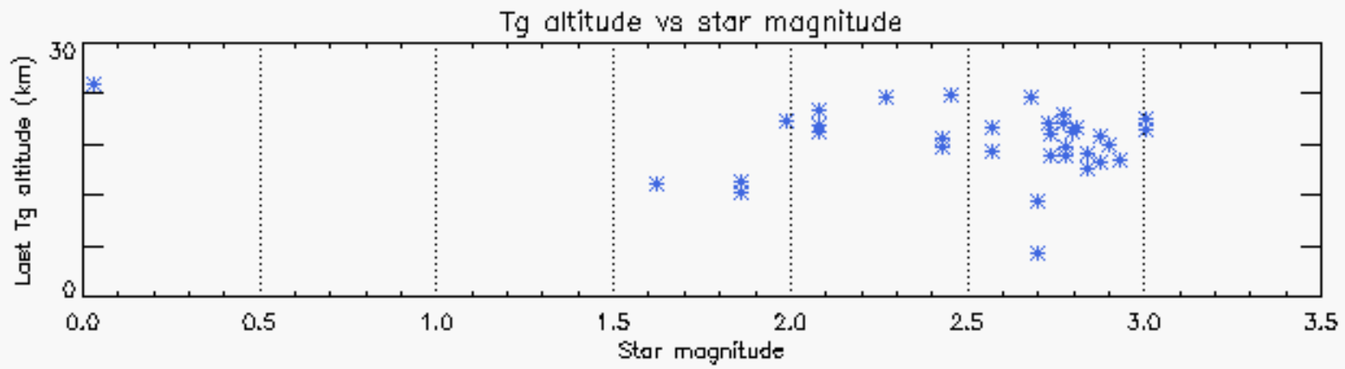


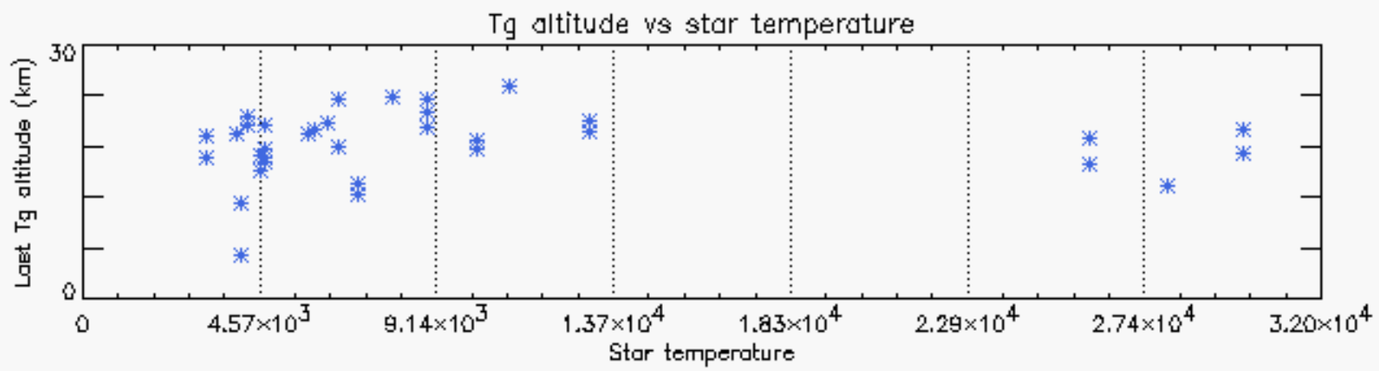




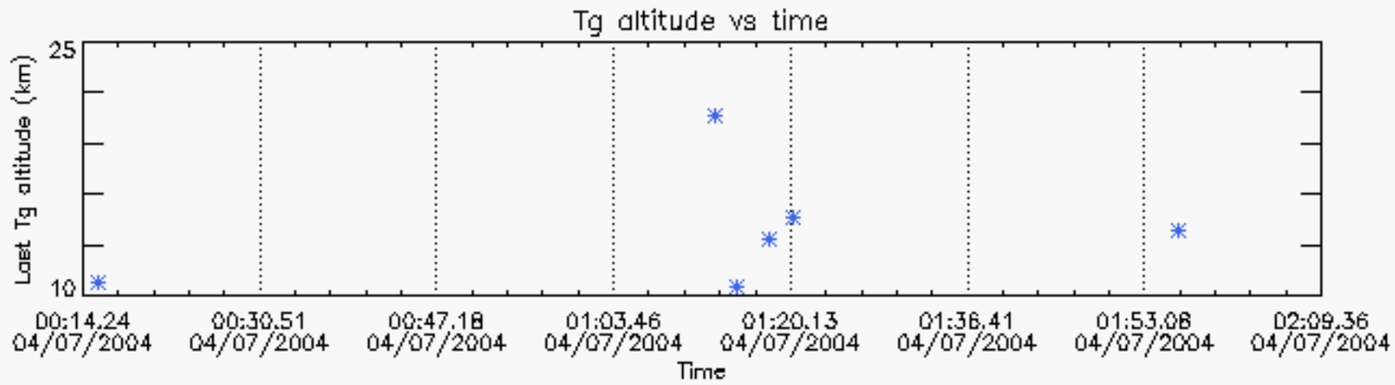
Tangent altitude at which the star is lost

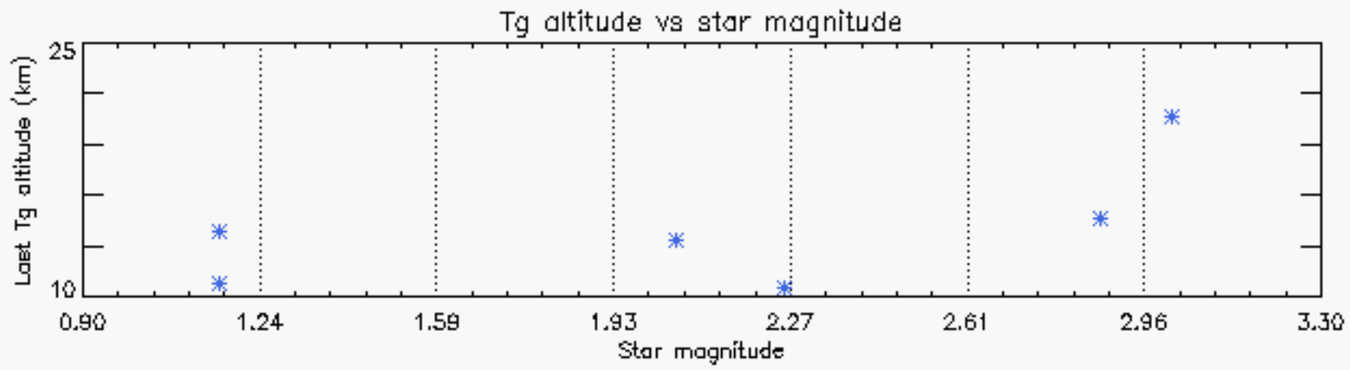


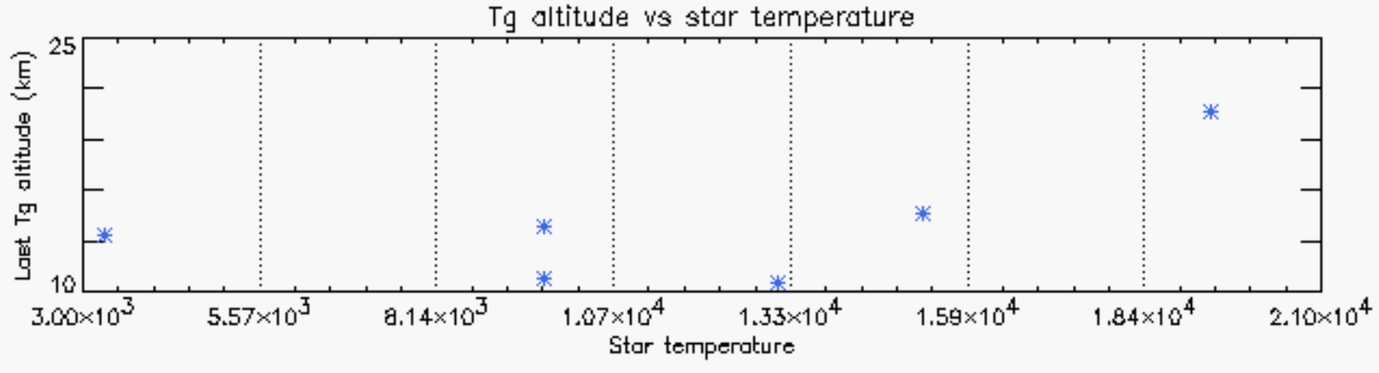


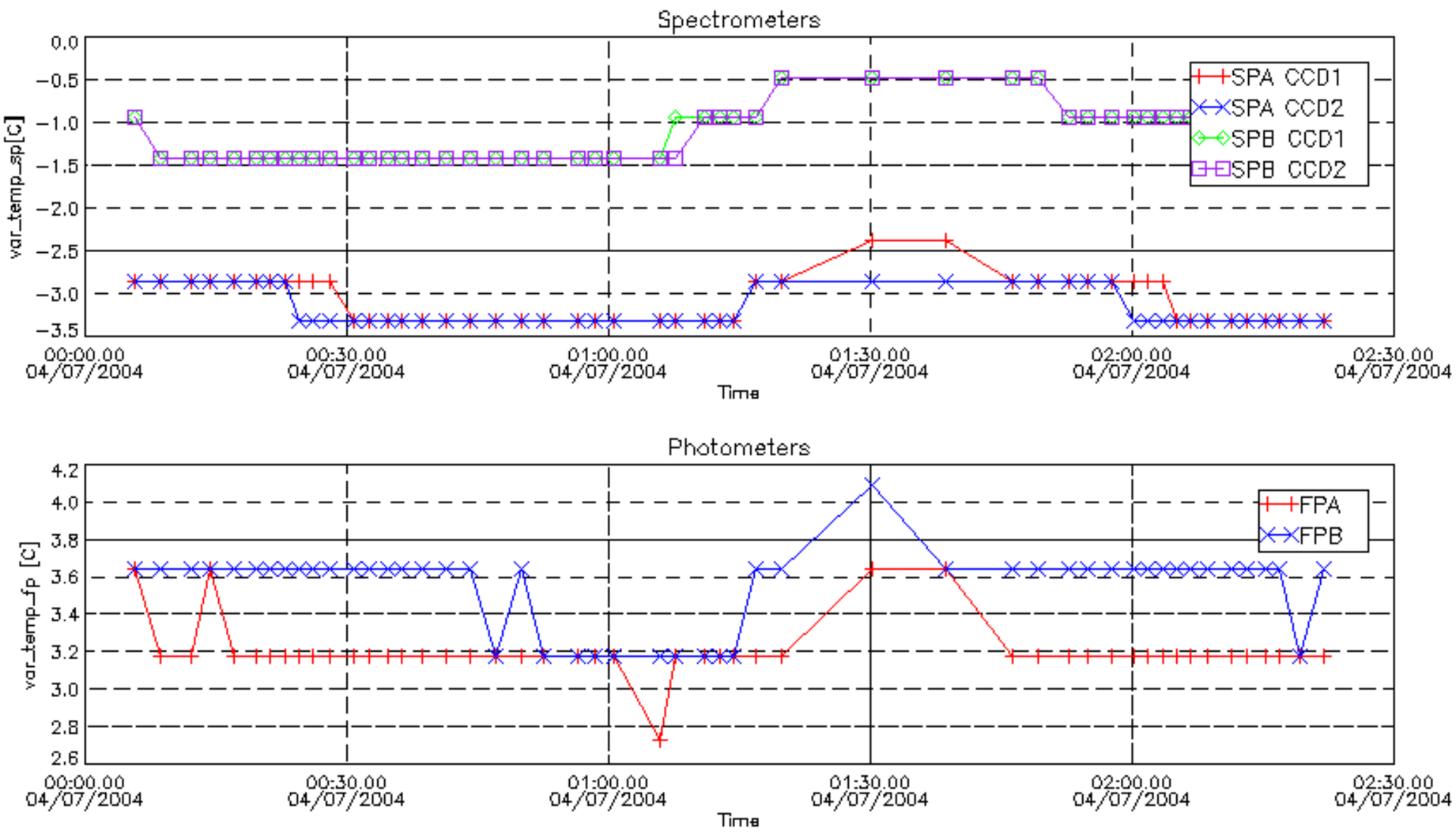


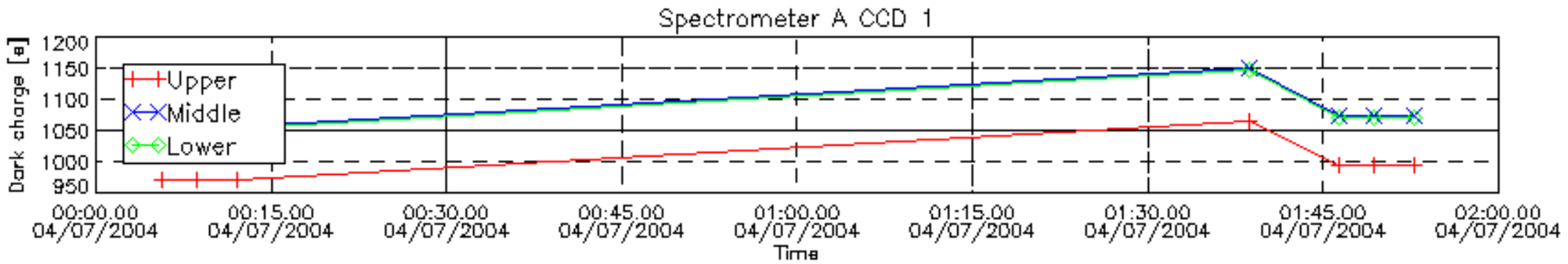
Tangent altitude at which the star is lost

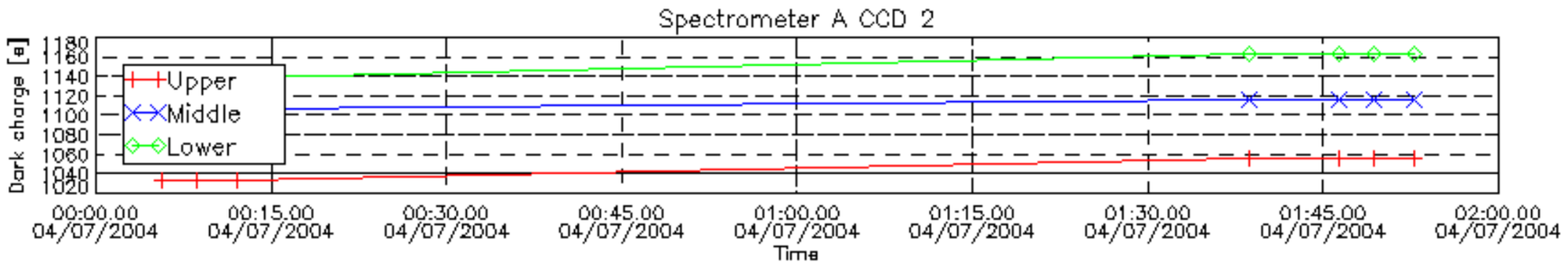


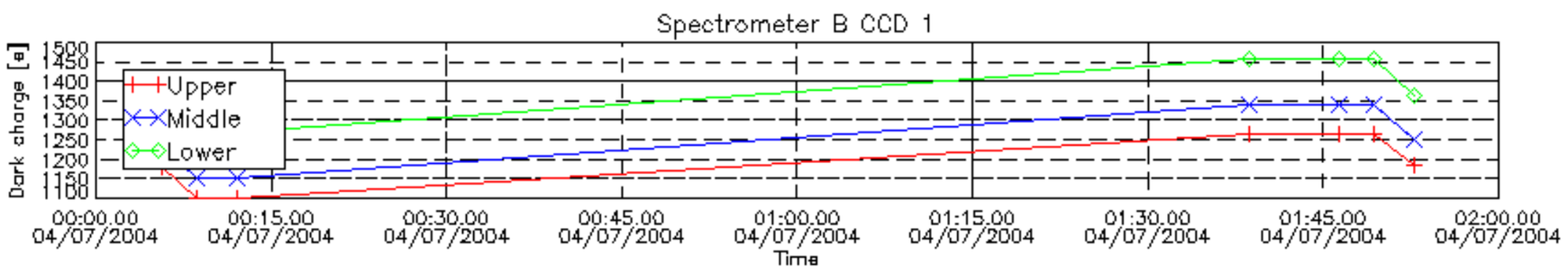


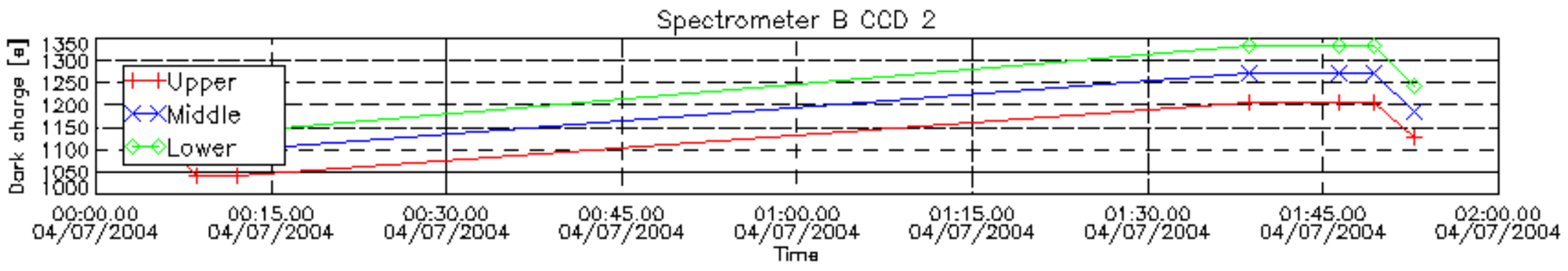


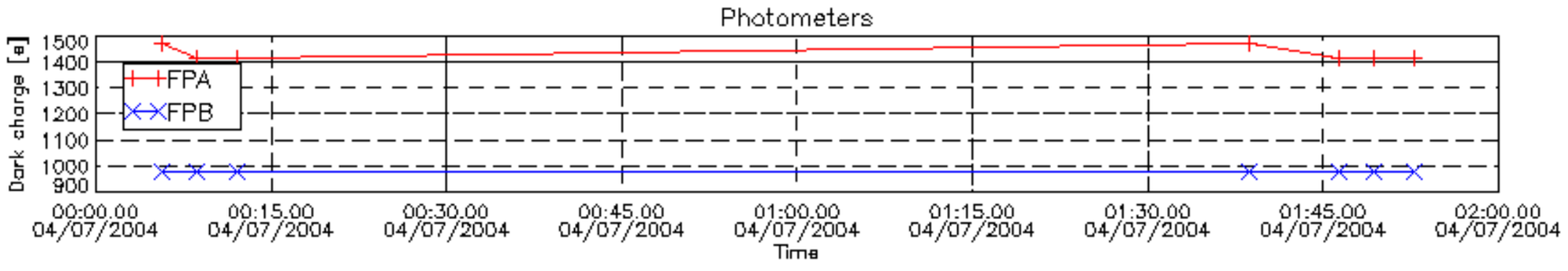

Spectrometers
var_temp_sp[C]
0.0
−0.5
−1.0
−1.5
−2.0
−2.5
−3.0
−3.5
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
04/07/2004
00:30.00
04/07/2004
01:00.00
04/07/2004
01:30.00
04/07/2004
02:00.00
04/07/2004
02:30.00
04/07/2004
Time
Photometers
var_temp_fp [C]
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
FPA
FPB
00:00.00
04/07/2004
00:30.00
04/07/2004
01:00.00
04/07/2004
01:30.00
04/07/2004
02:00.00
04/07/2004
02:30.00
04/07/2004
Time


Spectrometer A CCD 1
Dark charge [e]
1200
1150
1100
1050
1000
950
Upper
Middle
Lower
00:00.00 04/07/2004
00:15.00 04/07/2004
00:30.00 04/07/2004
00:45.00 04/07/2004
01:00.00 04/07/2004
01:15.00 04/07/2004
01:30.00 04/07/2004
01:45.00 04/07/2004
02:00.00 04/07/2004
Time


Spectrometer A CCD 2
Dark charge [e]
1180
1160
1140
1120
1100
1080
1060
1040
1020
Upper
Middle
Lower
00:00.00 04/07/2004
00:15.00 04/07/2004
00:30.00 04/07/2004
00:45.00 04/07/2004
01:00.00 04/07/2004
01:15.00 04/07/2004
01:30.00 04/07/2004
01:45.00 04/07/2004
02:00.00 04/07/2004
Time

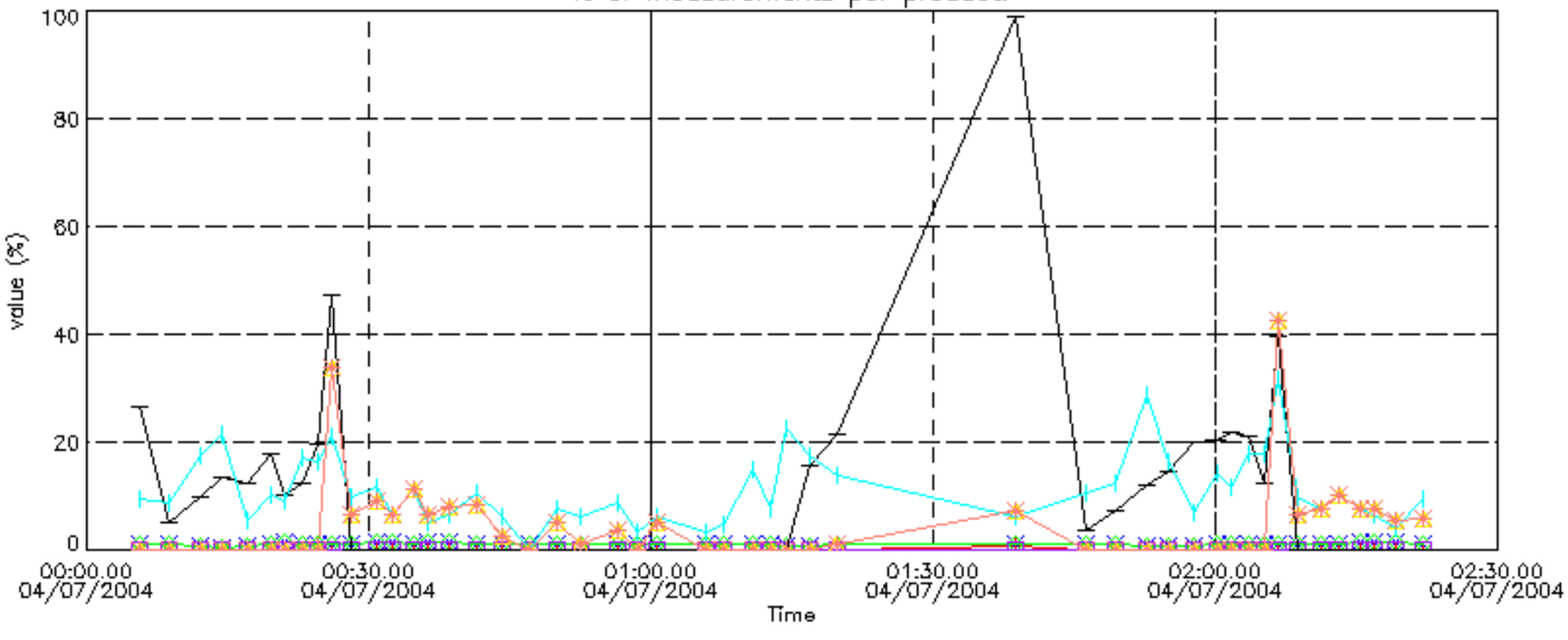

Spectrometer B CCD 1
Dark charge [e]
1500
1450
1400
1350
1300
1250
1200
1150
1100
Upper
Middle
Lower
00:00.00 04/07/2004
00:15.00 04/07/2004
00:30.00 04/07/2004
00:45.00 04/07/2004
01:00.00 04/07/2004
01:15.00 04/07/2004
01:30.00 04/07/2004
01:45.00 04/07/2004
02:00.00 04/07/2004
Time

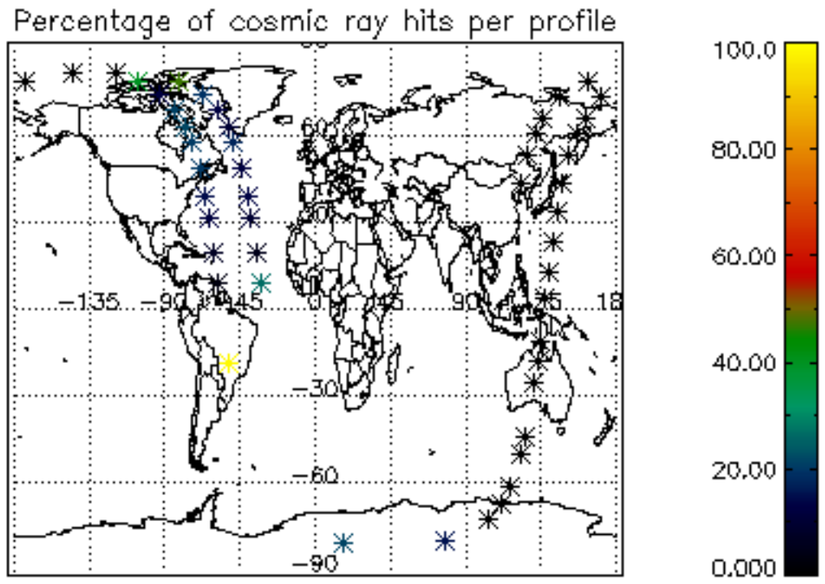

Spectrometer B CCD 2
Dark charge [e]
1350
1300
1250
1200
1150
1100
1050
1000
Upper
Middle
Lower
00:00.00 04/07/2004
00:15.00 04/07/2004
00:30.00 04/07/2004
00:45.00 04/07/2004
01:00.00 04/07/2004
01:15.00 04/07/2004
01:30.00 04/07/2004
01:45.00 04/07/2004
02:00.00 04/07/2004
Time

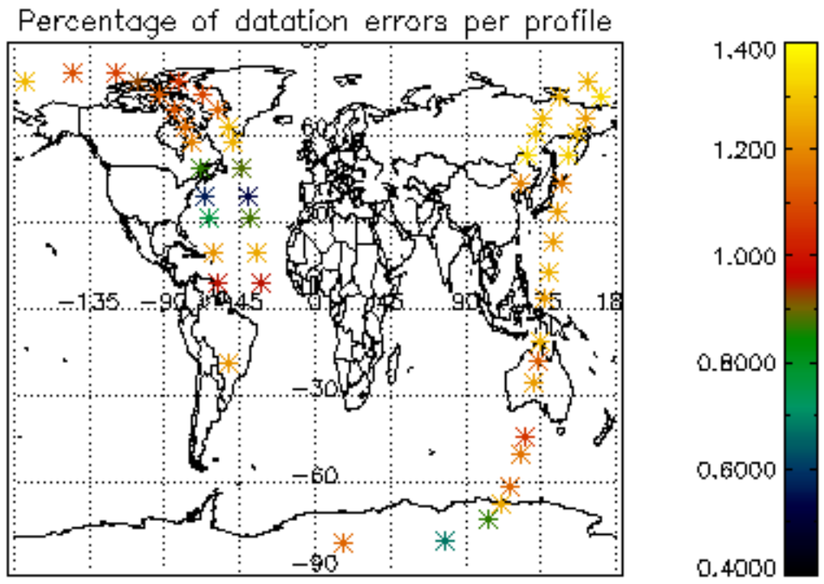

Photometers
Dark charge [e]
1500
1400
1300
1200
1100
1000
900
FPA
FPB
00:00.00 04/07/2004
00:15.00 04/07/2004
00:30.00 04/07/2004
00:45.00 04/07/2004
01:00.00 04/07/2004
01:15.00 04/07/2004
01:30.00 04/07/2004
01:45.00 04/07/2004
02:00.00 04/07/2004
Time

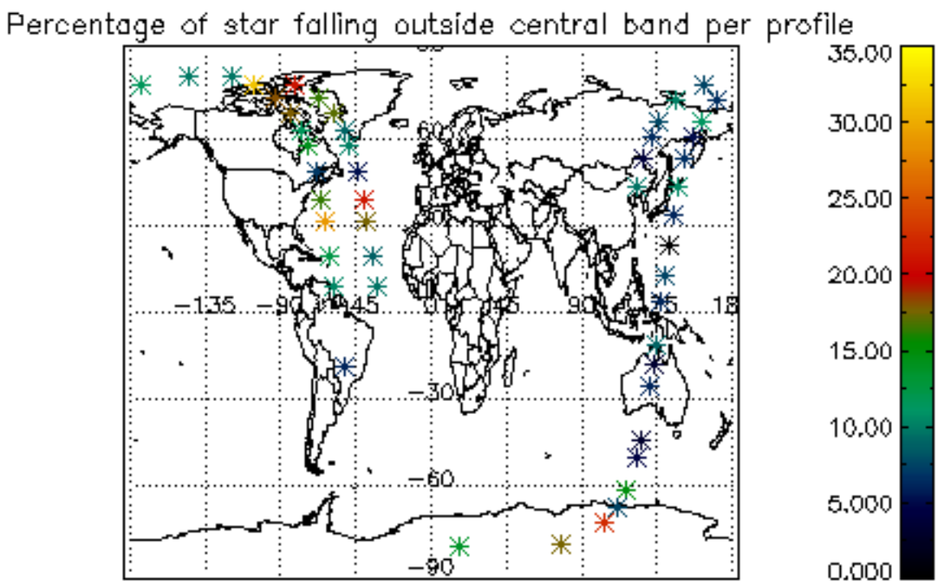
with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm

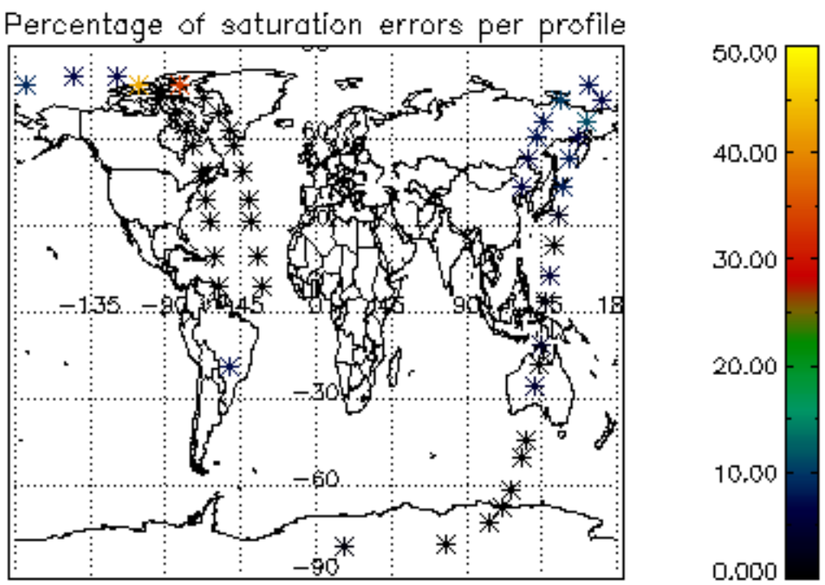
% of measurements per product:



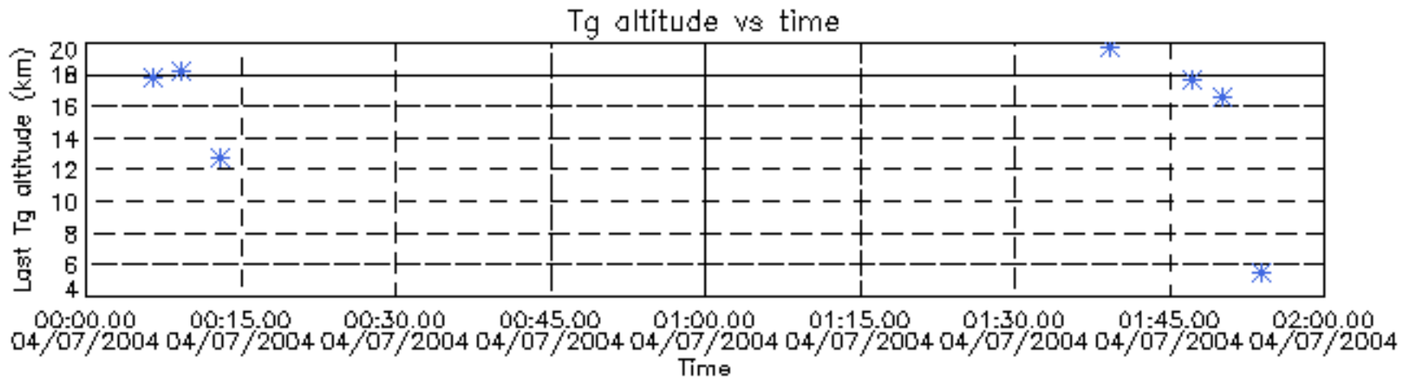

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−60
−90

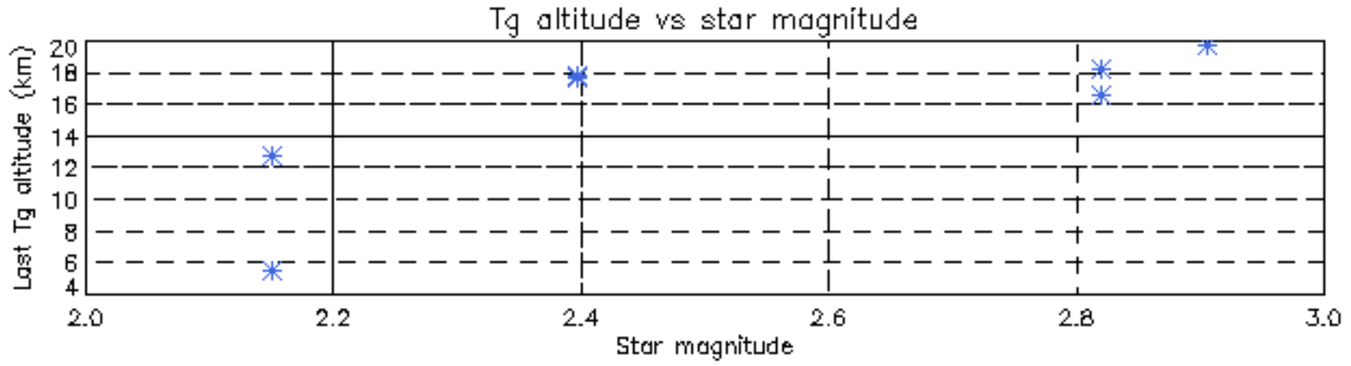

Percentage of datation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
−135
−90
−45
0
45
90
135
180
30
−30
−60
−90

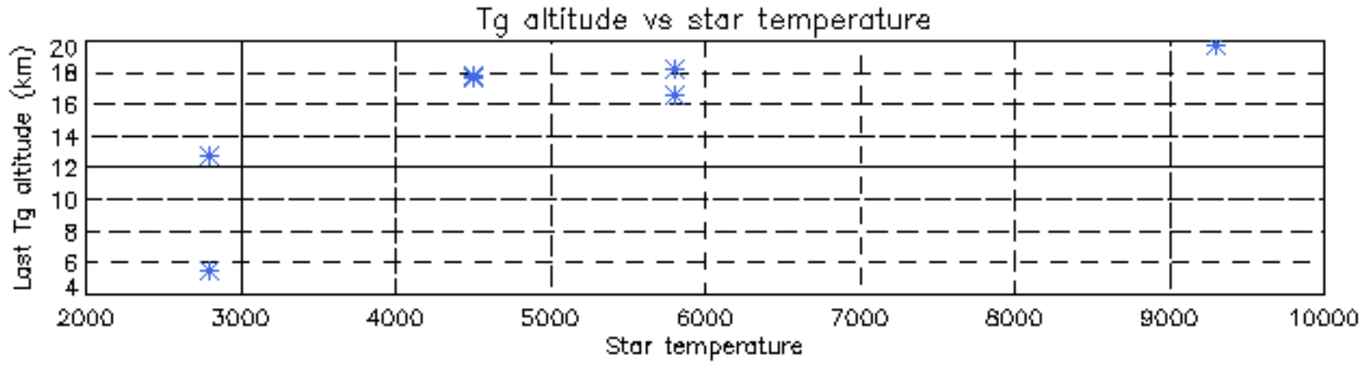

Percentage of star falling outside central band per profile
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−60
−90


Percentage of saturation errors per profile
50.00
40.00
30.00
20.00
10.00
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−60
−90

Tangent altitude at which the star is lost







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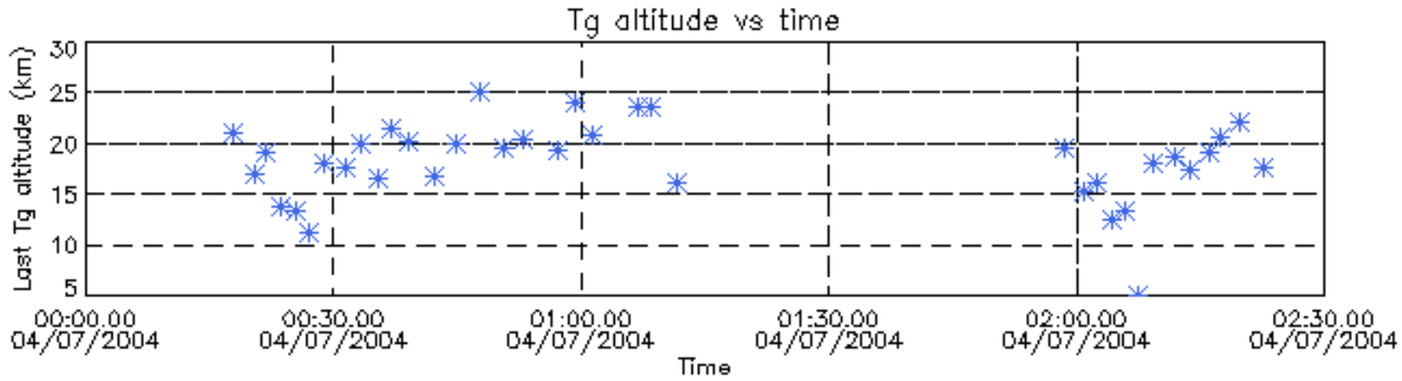

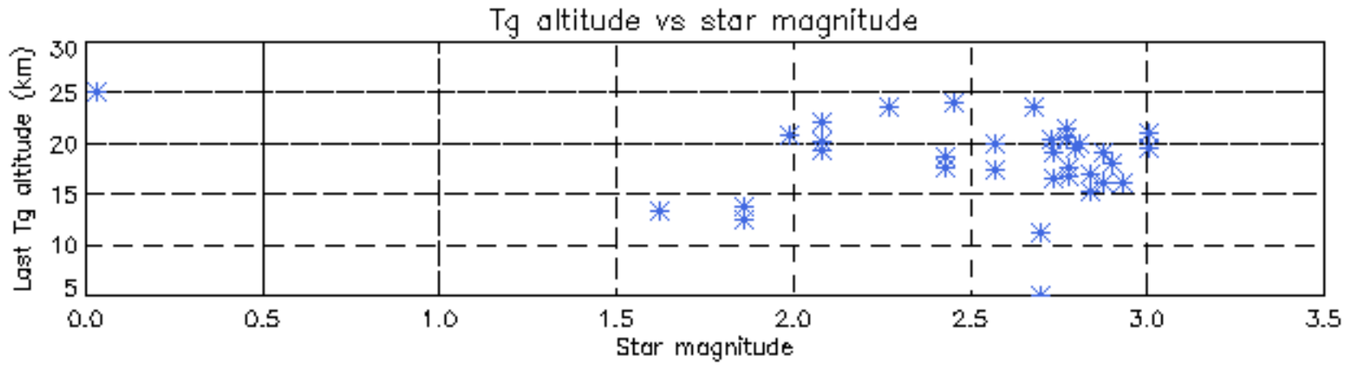

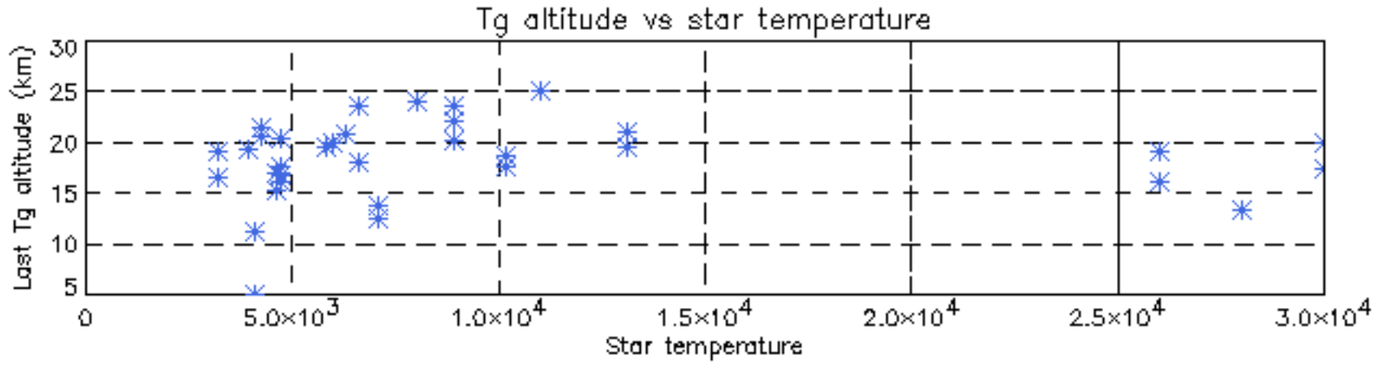

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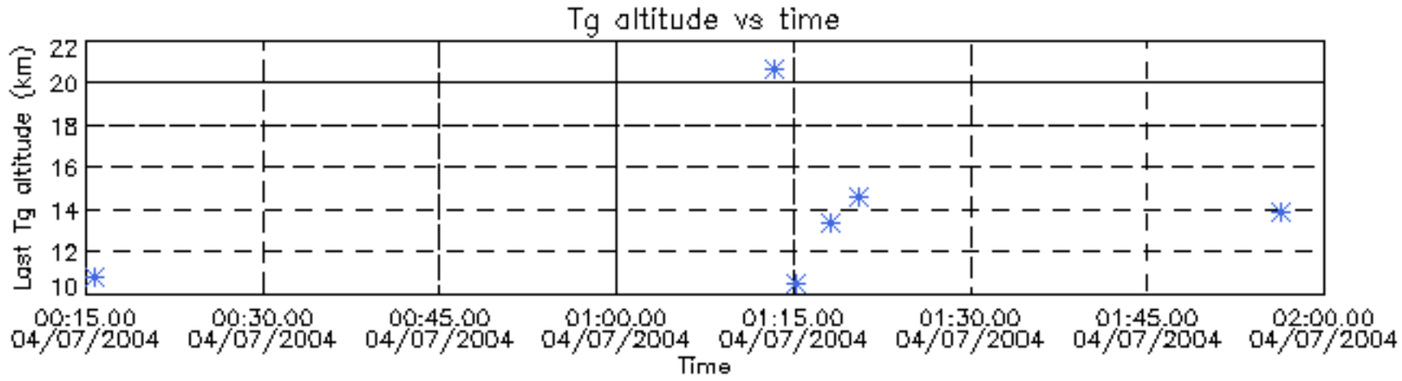

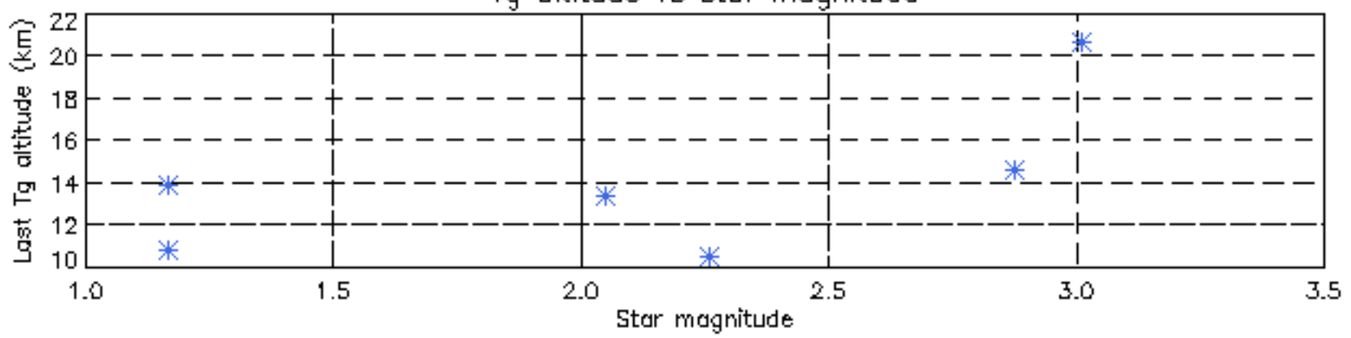

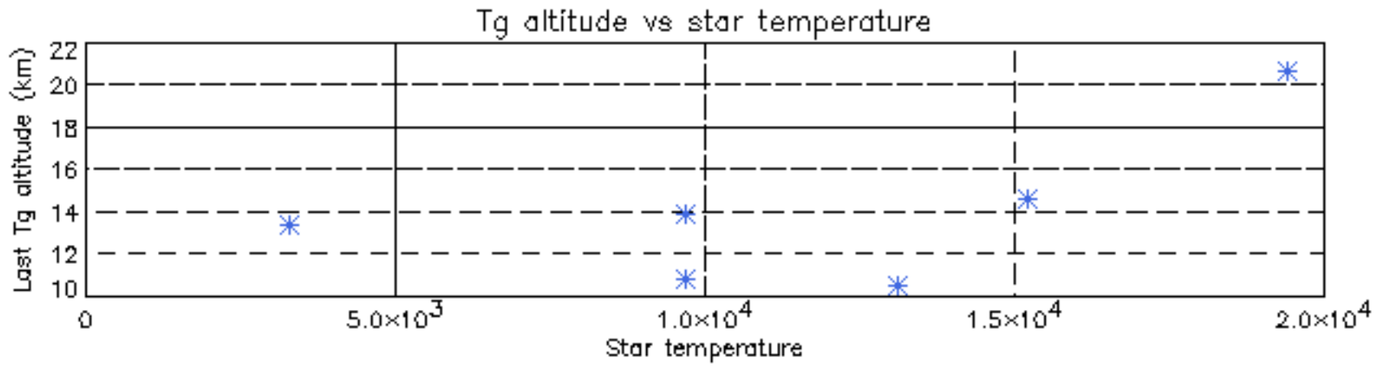

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  24;-1054.7; 01-JUL-2004 16:25:56; Dark ; 54.0;   94; 92Alp Cet ; 2.53; 3100;occ; 108;   0;12218
  25; -835.3; 01-JUL-2004 16:29:35; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86;   0;12218
  26; -492.7; 01-JUL-2004 16:35:18; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12218
  27; -327.4; 01-JUL-2004 16:38:03; Dark ; 45.0; 157;   The1Eri ; 2.91; 9300;occ; 90;   0;12218
  28; -147.3; 01-JUL-2004 16:41:03; Dark ; 73.0;   52; 16Bet Cet ; 2.04; 4500;occ; 146;   0;12218
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  31; 498.7; 01-JUL-2004 16:51:49; Dark ; 54.0;   63;   Bet Gru ; 2.15; 2800;occ; 108;   0;12219
  32; 602.0; 01-JUL-2004 16:53:33; Dark ; 83.0;   18; 24Alp PsA ; 1.17; 9700;occ; 166;   0;12219
  33; 751.0; 01-JUL-2004 16:56:02; Dark ; 42.0;   45;   Alp Pav ; 1.94; 26000;occ; 84;   0;12219
  34; 976.3; 01-JUL-2004 16:59:47; Dark ; 48.0; 141;   Bet Ara ; 2.84; 4600;occ; 96;   0;12219
  35; 1063.3; 01-JUL-2004 17:01:14; Dark ; 39.0; 147;   Alp Ara ; 2.88; 26000;occ; 78;   0;12219
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  15;-3085.1; 01-JUL-2004 17:32:42; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79;   0;12219

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  22;-1871.2; 01-JUL-2004 17:52:56; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70;   0;12219
  23;-1771.4; 01-JUL-2004 17:54:35; Bright; 52.0;   73; 57Gam1And ; 2.26; 13100;occ; 104;   0;12219
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  30; -832.9; 01-JUL-2004 19:50:50; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95;   0;12220
  31; -492.3; 01-JUL-2004 19:56:30; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12220
  32; -325.8; 01-JUL-2004 19:59:17; Dark ; 41.5; 157;   The1Eri ; 2.91; 9300;occ; 83;   0;12220
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  37; 605.1; 01-JUL-2004 20:14:48; Dark ; 100.5;   18; 24Alp PsA ; 1.17; 9700;occ; 201;   0;12221
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 13; 1389.5; 02-JUL-2004 01:29:40; Bright; 47.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 94;   0;12224
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 22; 2641.2; 02-JUL-2004 01:50:32; Bright; 47.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 94;   0;12224
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 26; 3329.6; 02-JUL-2004 02:02:00; Bright; 46.0;   89; 5Alp Cep ; 2.45; 8000;occ; 92;   0;12224
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  29; 4257.3; 06-JUL-2004 23:39:24; Bright;  56.0;   73; 57Gam1And  ; 2.26; 13100;occ; 112;   0;12294
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   3; -386.6; 22-JUL-2004 00:31:22; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12509
   4; -148.2; 22-JUL-2004 00:35:21; Dark ; 46.0; 157;   The1Eri ; 2.91; 9300;occ; 92;   0;12509
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   8; 748.3; 22-JUL-2004 00:50:17; Dark ; 57.5;   63;   Bet Gru ; 2.15; 2800;occ; 115;   0;12510
   9; 835.8; 22-JUL-2004 00:51:45; Dark ; 52.0;   31;   Alp Gru ; 1.73; 15200;occ; 104;   0;12510
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  14; 1556.4; 22-JUL-2004 01:03:45; Bright; 66.5; 142; 49Del Cap ; 2.85; 8900;occ; 133;   0;12510
  15; 2009.0; 22-JUL-2004 01:11:18; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75;   0;12510
  16; 2141.7; 22-JUL-2004 01:13:31; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83;   0;12510
  17; 2568.5; 22-JUL-2004 01:20:37; Bright; 41.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 83;   0;12510
  18; 2734.1; 22-JUL-2004 01:23:23; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82;   0;12510
  19; 2845.3; 22-JUL-2004 01:25:14; Bright; 49.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 98;   0;12510
  20; 2993.5; 22-JUL-2004 01:27:42; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80;   0;12510
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  22; 3440.5; 22-JUL-2004 01:35:09; Bright; 34.5;   49; 1Alp UMi ; 1.99; 6300;occ; 69;   0;12510
  23; 3586.7; 22-JUL-2004 01:37:36; Bright; 52.5;   74; 11Bet Cas ; 2.27; 6600;occ; 105;   0;12510
  24; 3684.9; 22-JUL-2004 01:39:14; Bright; 47.5;   76; 27Gam Cas ; 2.30; 30000;occ; 95;   0;12510
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  29; 4647.0; 22-JUL-2004 01:55:16; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99;   0;12510
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  31; 4867.0; 22-JUL-2004 01:58:56; Dark ; 40.5;   27; 24Gam Ori ; 1.64; 26000;occ; 81;   0;12510
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   6; 651.7; 22-JUL-2004 02:29:16; Dark ; 51.5; 148;   Alp Tuc ; 2.88; 4100;occ; 103;   0;12511
   7; 751.4; 22-JUL-2004 02:30:56; Dark ; 60.0;   63;   Bet Gru ; 2.15; 2800;occ; 120;   0;12511
   8; 837.2; 22-JUL-2004 02:32:22; Dark ; 52.0;   31;   Alp Gru ; 1.73; 15200;occ; 104;   0;12511
   9; 1013.3; 22-JUL-2004 02:35:18; Dark ; 77.5;   18; 24Alp PsA ; 1.17; 9700;occ; 155;   0;12511
  10; 1262.4; 22-JUL-2004 02:39:27; Dark ; 40.5; 178;   Iot1Sco ; 3.02; 6550;occ; 81;   0;12511
  11; 1336.2; 22-JUL-2004 02:40:41; Dark ; 41.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 82;   0;12511
  12; 1448.7; 22-JUL-2004 02:42:33; Bright; 41.5;   57; 34Sig Sgr ; 2.07; 26000;occ; 83;   0;12511
  13; 1556.4; 22-JUL-2004 02:44:21; Bright; 67.5; 142; 49Del Cap ; 2.85; 8900;occ; 135;   0;12511
  14; 2008.6; 22-JUL-2004 02:51:53; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78;   0;12511
  15; 2141.7; 22-JUL-2004 02:54:06; Bright; 40.5; 168; 17Zet Aql ; 2.99; 11000;occ; 81;   0;12511
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  18; 2844.3; 22-JUL-2004 03:05:49; Bright; 47.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 95;   0;12511
  19; 2992.1; 22-JUL-2004 03:08:17; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79;   0;12511
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  21; 3439.9; 22-JUL-2004 03:15:45; Bright; 38.5;   49; 1Alp UMi ; 1.99; 6300;occ; 77;   0;12511
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 3;-2016.2; 22-JUL-2004 03:25:24; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92;   0;12511
 4;-1929.2; 22-JUL-2004 03:26:52; Bright; 60.0;   35; 33Alp Per ; 1.79; 6250;occ; 120;   0;12511
 5;-1821.9; 22-JUL-2004 03:28:39; Bright; 70.5;   73; 57Gam1And ; 2.26; 13100;occ; 141;   0;12511
 6;-1642.9; 22-JUL-2004 03:31:38; Dark ; 156.0;   53; 43Bet And ; 2.05; 3300;occ; 312;   0;12511
 7;-1389.1; 22-JUL-2004 03:35:52; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96;   0;12511
 8;-1296.9; 22-JUL-2004 03:37:24; Dark ; 57.0;   13; 87Alp Tau ; 0.87; 3800;occ; 114;   0;12511
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11; -918.2; 22-JUL-2004 03:43:42; Dark ; 52.0;   7; 19Bet Ori ; 0.10; 14000;occ; 104;   0;12511
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13; -513.4; 22-JUL-2004 03:50:27; Dark ; 41.5; 108;   Alp Col ; 2.65; 15200;occ; 83;   0;12511
14; -385.5; 22-JUL-2004 03:52:35; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12511
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17; 386.6; 22-JUL-2004 04:05:27; Dark ; 42.0; 135;   Bet Hyi ; 2.82; 5800;occ; 84;   0;12512
18; 651.6; 22-JUL-2004 04:09:52; Dark ; 44.0; 148;   Alp Tuc ; 2.88; 4100;occ; 88;   0;12512
19; 752.3; 22-JUL-2004 04:11:33; Dark ; 53.5;   63;   Bet Gru ; 2.15; 2800;occ; 107;   0;12512
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21; 1013.9; 22-JUL-2004 04:15:55; Dark ; 78.5;   18; 24Alp PsA ; 1.17; 9700;occ; 157;   0;12512
22; 1262.3; 22-JUL-2004 04:20:03; Dark ; 40.0; 178;   Iot1Sco ; 3.02; 6550;occ; 80;   0;12512
23; 1336.5; 22-JUL-2004 04:21:17; Dark ; 43.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 86;   0;12512
24; 1450.8; 22-JUL-2004 04:23:11; Bright; 40.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 80;   0;12512
25; 1555.7; 22-JUL-2004 04:24:56; Bright; 68.5; 142; 49Del Cap ; 2.85; 8900;occ; 137;   0;12512
26; 2009.5; 22-JUL-2004 04:32:30; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77;   0;12512
27; 2144.6; 22-JUL-2004 04:34:45; Bright; 38.5; 168; 17Zet Aql ; 2.99; 11000;occ; 77;   0;12512
28; 2568.1; 22-JUL-2004 04:41:49; Bright; 41.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 82;   0;12512
29; 2733.3; 22-JUL-2004 04:44:34; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80;   0;12512
30; 2843.4; 22-JUL-2004 04:46:24; Bright; 47.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 95;   0;12512
31; 2995.2; 22-JUL-2004 04:48:56; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12512
32; 3154.4; 22-JUL-2004 04:51:35; Bright; 44.0;   89; 5Alp Cep ; 2.45; 8000;occ; 88;   0;12512
33; 3440.9; 22-JUL-2004 04:56:22; Bright; 36.0;   49; 1Alp UMi ; 1.99; 6300;occ; 72;   0;12512
34; 3584.4; 22-JUL-2004 04:58:45; Bright; 53.5;   74; 11Bet Cas ; 2.27; 6600;occ; 107;   0;12512
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  3;-1930.4; 22-JUL-2004 05:07:26; Bright; 47.0;   35; 33Alp Per ; 1.79; 6250;occ; 94;   0;12512
  4;-1822.8; 22-JUL-2004 05:09:14; Bright; 72.0;   73; 57Gam1And ; 2.26; 13100;occ; 144;   0;12512
  5;-1643.4; 22-JUL-2004 05:12:13; Dark ; 138.0;   53; 43Bet And ; 2.05; 3300;occ; 276;   0;12512
  6;-1388.5; 22-JUL-2004 05:16:28; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100;   0;12512
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 16; 388.7; 22-JUL-2004 05:46:05; Dark ; 39.5; 135;   Bet Hyi ; 2.82; 5800;occ; 79;   0;12513
 17; 653.1; 22-JUL-2004 05:50:30; Dark ; 46.0; 148;   Alp Tuc ; 2.88; 4100;occ; 92;   0;12513
 18; 753.4; 22-JUL-2004 05:52:10; Dark ; 53.0;   63;   Bet Gru ; 2.15; 2800;occ; 106;   0;12513
 19; 839.1; 22-JUL-2004 05:53:36; Dark ; 47.5;   31;   Alp Gru ; 1.73; 15200;occ; 95;   0;12513
 20; 1012.6; 22-JUL-2004 05:56:29; Dark ; 84.5;   18; 24Alp PsA ; 1.17; 9700;occ; 169;   0;12513
 21; 1262.5; 22-JUL-2004 06:00:39; Dark ; 40.5; 178;   Iot1Sco ; 3.02; 6550;occ; 81;   0;12513
 22; 1337.9; 22-JUL-2004 06:01:55; Dark ; 43.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 87;   0;12513
 23; 1451.5; 22-JUL-2004 06:03:48; Bright; 40.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 80;   0;12513
 24; 1556.0; 22-JUL-2004 06:05:33; Bright; 65.0; 142; 49Del Cap ; 2.85; 8900;occ; 130;   0;12513
 25; 2010.3; 22-JUL-2004 06:13:07; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76;   0;12513
 26; 2144.9; 22-JUL-2004 06:15:22; Bright; 40.0; 168; 17Zet Aql ; 2.99; 11000;occ; 80;   0;12513
 27; 2568.2; 22-JUL-2004 06:22:25; Bright; 42.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 84;   0;12513
 28; 2733.4; 22-JUL-2004 06:25:10; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80;   0;12513
 29; 2843.1; 22-JUL-2004 06:27:00; Bright; 47.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 95;   0;12513
 30; 2995.7; 22-JUL-2004 06:29:32; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12513
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3;-2017.2; 22-JUL-2004 06:46:36; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;12513
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5;-1823.1; 22-JUL-2004 06:49:50; Bright; 69.0; 73; 57Gam1And ; 2.26; 13100;occ; 138; 0;12513
6;-1643.5; 22-JUL-2004 06:52:49; Dark ; 170.5; 53; 43Bet And ; 2.05; 3300;occ; 341; 0;12513
7;-1388.7; 22-JUL-2004 06:57:04; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;12513
8;-1293.5; 22-JUL-2004 06:58:39; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;12513
9;-1167.3; 22-JUL-2004 07:00:45; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;12513
10;-1051.3; 22-JUL-2004 07:02:41; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;12513
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17; 389.5; 22-JUL-2004 07:26:42; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;12514
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19; 754.4; 22-JUL-2004 07:32:47; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;12514
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25; 1556.1; 22-JUL-2004 07:46:09; Bright; 66.5; 142; 49Del Cap ; 2.85; 8900;occ; 133; 0;12514
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   6; 391.7; 22-JUL-2004 22:32:08; Dark ; 40.5; 135;   Bet Hyi ; 2.82; 5800;occ; 81;   0;12523
   7; 658.1; 22-JUL-2004 22:36:34; Dark ; 41.0; 148;   Alp Tuc ; 2.88; 4100;occ; 82;   0;12523
   8; 759.8; 22-JUL-2004 22:38:16; Dark ; 64.5;   63;   Bet Gru ; 2.15; 2800;occ; 129;   0;12523
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  28; 4210.0; 22-JUL-2004 23:35:46; Bright; 71.5;   73; 57Gam1And ; 2.26; 13100;occ; 143;   0;12523
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   6; 391.3; 23-JUL-2004 00:12:43; Dark ; 40.0; 135;   Bet Hyi ; 2.82; 5800;occ; 80;   0;12524
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  13; 1557.3; 23-JUL-2004 00:32:09; Bright; 67.0; 142; 49Del Cap ; 2.85; 8900;occ; 134;   0;12524
  14; 1862.1; 23-JUL-2004 00:37:14; Bright; 67.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 135;   0;12524
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  25; 3676.4; 23-JUL-2004 01:07:28; Bright; 50.5;   76; 27Gam Cas ; 2.30; 30000;occ; 101;   0;12524
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  27; 4104.8; 23-JUL-2004 01:14:37; Bright; 45.0;   35; 33Alp Per ; 1.79; 6250;occ; 90;   0;12524
  28; 4209.6; 23-JUL-2004 01:16:22; Bright; 68.0;   73; 57Gam1And ; 2.26; 13100;occ; 136;   0;12524
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  25; -139.8; 22-JUL-2004 17:21:28; Dark ; 46.0; 157;   The1Eri ; 2.91; 9300;occ; 92;   0;12519
  26; 218.3; 22-JUL-2004 17:27:27; Dark ; 45.0;   9;   Alp Eri ; 0.45; 24000;occ; 90;   0;12520
  27; 390.5; 22-JUL-2004 17:30:19; Dark ; 38.5; 135;   Bet Hyi ; 2.82; 5800;occ; 77;   0;12520
  28; 656.9; 22-JUL-2004 17:34:45; Dark ; 44.0; 148;   Alp Tuc ; 2.88; 4100;occ; 88;   0;12520
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   6;-4024.4; 22-JUL-2004 17:57:20; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74;   0;12520
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   8;-1291.0; 23-JUL-2004 03:05:53; Dark ; 53.0;   13; 87Alp Tau ; 0.87; 3800;occ; 106;   0;12525
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  22; 1339.4; 23-JUL-2004 03:49:43; Dark ; 40.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 80;   0;12526
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  31; 2833.3; 23-JUL-2004 04:14:37; Bright; 49.0;   19; 50Alp Cyg ; 1.25; 10500;occ; 98;   0;12526
  32; 2998.9; 23-JUL-2004 04:17:23; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74;   0;12526
  33; 3147.8; 23-JUL-2004 04:19:51; Bright; 44.0;   89; 5Alp Cep ; 2.45; 8000;occ; 88;   0;12526
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  26; 2143.9; 23-JUL-2004 05:43:44; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76;   0;12527
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  34; 3441.2; 23-JUL-2004 06:05:21; Bright; 38.0;   49; 1Alp UMi ; 1.99; 6300;occ; 76;   0;12527
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   3;-2020.9; 23-JUL-2004 06:14:55; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92;   0;12527
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  19; 764.7; 23-JUL-2004 07:01:20; Dark ; 65.0;   63;   Bet Gru ; 2.15; 2800;occ; 130;   0;12528
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   3; -716.8; 23-JUL-2004 21:42:02; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85;   0;12536
   4; -509.6; 23-JUL-2004 21:45:29; Dark ; 42.5; 108;   Alp Col ; 2.65; 15200;occ; 85;   0;12536
   5; -372.0; 23-JUL-2004 21:47:47; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12536
   6; -126.4; 23-JUL-2004 21:51:53; Dark ; 46.0; 157;   The1Eri ; 2.91; 9300;occ; 92;   0;12536
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   9; 664.9; 23-JUL-2004 22:05:04; Dark ; 41.0; 148;   Alp Tuc ; 2.88; 4100;occ; 82;   0;12537
  10; 771.1; 23-JUL-2004 22:06:50; Dark ; 63.5;   63;   Bet Gru ; 2.15; 2800;occ; 127;   0;12537
  11; 877.7; 23-JUL-2004 22:08:37; Dark ; 39.5;   45;   Alp Pav ; 1.94; 26000;occ; 79;   0;12537
  12; 1037.7; 23-JUL-2004 22:11:17; Dark ; 89.0;   18; 24Alp PsA ; 1.17; 9700;occ; 178;   0;12537
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   9;-3469.1; 23-JUL-2004 19:15:34; Bright; 41.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 82;   0;12535
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  32;  229.3; 23-JUL-2004 20:17:12; Dark  ;  46.0;    9;   Alp Eri  ; 0.45; 24000;occ;  92;   0;12536
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   8;-1285.7; 24-JUL-2004 02:34:21; Dark  ;  56.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 112;   0;12539
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   4;-3684.4; 24-JUL-2004 13:38:34; Bright; 86.0;   61; 8Eps Peg ; 2.10; 3900;occ; 172;   0;12546
   5;-3469.1; 24-JUL-2004 13:42:09; Bright; 42.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 84;   0;12546
   6;-3314.7; 24-JUL-2004 13:44:44; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81;   0;12546
   7;-3214.3; 24-JUL-2004 13:46:24; Bright; 42.5;   19; 50Alp Cyg ; 1.25; 10500;occ; 85;   0;12546
   8;-3032.2; 24-JUL-2004 13:49:26; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12546
   9;-2898.1; 24-JUL-2004 13:51:40; Bright; 41.5;   89; 5Alp Cep ; 2.45; 8000;occ; 83;   0;12546
  10;-2778.2; 24-JUL-2004 13:53:40; Bright; 38.0;   60; 7Bet UMi ; 2.08; 3950;occ; 76;   0;12546
  11;-2595.1; 24-JUL-2004 13:56:43; Bright; 35.5;   49; 1Alp UMi ; 1.99; 6300;occ; 71;   0;12546
  12;-2477.0; 24-JUL-2004 13:58:41; Bright; 53.5;   74; 11Bet Cas ; 2.27; 6600;occ; 107;   0;12546
  13;-2372.5; 24-JUL-2004 14:00:26; Bright; 50.0;   76; 27Gam Cas ; 2.30; 30000;occ; 100;   0;12546
  14;-2025.8; 24-JUL-2004 14:06:12; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91;   0;12546
  15;-1934.7; 24-JUL-2004 14:07:44; Bright; 46.5;   35; 33Alp Per ; 1.79; 6250;occ; 93;   0;12546
  16;-1833.8; 24-JUL-2004 14:09:24; Bright; 71.0;   73; 57Gam1And ; 2.26; 13100;occ; 142;   0;12546
  17;-1653.9; 24-JUL-2004 14:12:24; Dark ; 196.0;   53; 43Bet And ; 2.05; 3300;occ; 392;   0;12546
  18;-1379.7; 24-JUL-2004 14:16:59; Dark ; 53.0; 146; 25Eta Tau ; 2.87; 15200;occ; 106;   0;12546
  19;-1283.5; 24-JUL-2004 14:18:35; Dark ; 57.0;   13; 87Alp Tau ; 0.87; 3800;occ; 114;   0;12546
  20;-1158.7; 24-JUL-2004 14:20:40; Dark ; 42.5;   27; 24Gam Ori ; 1.64; 26000;occ; 85;   0;12546
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  25; -507.3; 24-JUL-2004 14:31:31; Dark ; 40.5; 108;   Alp Col ; 2.65; 15200;occ; 81;   0;12546
  26; -366.4; 24-JUL-2004 14:33:52; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12546
  27; -117.6; 24-JUL-2004 14:38:01; Dark ; 46.0; 157;   The1Eri ; 2.91; 9300;occ; 92;   0;12546
  28; 236.0; 24-JUL-2004 14:43:54; Dark ; 44.0;   9;   Alp Eri ; 0.45; 24000;occ; 88;   0;12547
  29; 395.4; 24-JUL-2004 14:46:34; Dark ; 40.5; 135;   Bet Hyi ; 2.82; 5800;occ; 81;   0;12547
  30; 669.4; 24-JUL-2004 14:51:08; Dark ; 42.5; 148;   Alp Tuc ; 2.88; 4100;occ; 85;   0;12547
  31; 778.4; 24-JUL-2004 14:52:57; Dark ; 53.0;   63;   Bet Gru ; 2.15; 2800;occ; 106;   0;12547
  32; 880.6; 24-JUL-2004 14:54:39; Dark ; 42.0;   45;   Alp Pav ; 1.94; 26000;occ; 84;   0;12547
  33; 1048.2; 24-JUL-2004 14:57:26; Dark ; 79.0;   18; 24Alp PsA ; 1.17; 9700;occ; 158;   0;12547
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   6;-3469.3; 24-JUL-2004 15:22:45; Bright; 41.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 83;   0;12547
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   9;-3032.6; 24-JUL-2004 15:30:02; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12547
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  12;-2595.2; 24-JUL-2004 15:37:19; Bright; 35.5;   49; 1Alp UMi ; 1.99; 6300;occ; 71;   0;12547
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  16;-1934.7; 24-JUL-2004 15:48:20; Bright; 46.5;   35; 33Alp Per ; 1.79; 6250;occ; 93;   0;12547
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  25; -713.8; 24-JUL-2004 16:08:40; Dark ; 45.0; 139; 9Bet Lep ; 2.83; 5600;occ; 90;   0;12547
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  28; -116.8; 24-JUL-2004 16:18:37; Dark ; 47.5; 157;   The1Eri ; 2.91; 9300;occ; 95;   0;12547
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  31; 670.4; 24-JUL-2004 16:31:45; Dark ; 44.5; 148;   Alp Tuc ; 2.88; 4100;occ; 89;   0;12548
  32; 779.4; 24-JUL-2004 16:33:34; Dark ; 50.5;   63;   Bet Gru ; 2.15; 2800;occ; 101;   0;12548
  33; 880.9; 24-JUL-2004 16:35:15; Dark ; 41.5;   45;   Alp Pav ; 1.94; 26000;occ; 83;   0;12548
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   3; 1051.2; 24-JUL-2004 19:59:17; Dark ; 78.0;   18; 24Alp PsA ; 1.17; 9700;occ; 156;   0;12550
   4; 1344.0; 24-JUL-2004 20:04:10; Dark ; 42.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 85;   0;12550
   5; 1457.4; 24-JUL-2004 20:06:04; Bright; 41.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 82;   0;12550
   6; 1559.4; 24-JUL-2004 20:07:46; Bright; 62.0; 142; 49Del Cap ; 2.85; 8900;occ; 124;   0;12550
   7; 1851.6; 24-JUL-2004 20:12:38; Bright; 63.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 126;   0;12550
   8; 2069.0; 24-JUL-2004 20:16:15; Bright; 42.5;   11; 53Alp Aql ; 0.76; 8000;occ; 85;   0;12550
   9; 2345.2; 24-JUL-2004 20:20:51; Bright; 76.5;   61; 8Eps Peg ; 2.10; 3900;occ; 153;   0;12550
  10; 2563.4; 24-JUL-2004 20:24:30; Bright; 39.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 78;   0;12550
  11; 2719.3; 24-JUL-2004 20:27:06; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79;   0;12550
  12; 2807.5; 24-JUL-2004 20:28:34; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79;   0;12550
  13; 3002.2; 24-JUL-2004 20:31:48; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85;   0;12550
  14; 3135.7; 24-JUL-2004 20:34:02; Bright; 42.5;   89; 5Alp Cep ; 2.45; 8000;occ; 85;   0;12550
  15; 3257.7; 24-JUL-2004 20:36:04; Bright; 36.0;   60; 7Bet UMi ; 2.08; 3950;occ; 72;   0;12550
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  19; 4009.3; 24-JUL-2004 20:48:36; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92;   0;12550
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  22; 4380.5; 24-JUL-2004 20:54:47; Dark ; 166.0;   53; 43Bet And ; 2.05; 3300;occ; 332;   0;12550
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  24; 4753.5; 24-JUL-2004 21:01:00; Dark ; 58.0;   13; 87Alp Tau ; 0.87; 3800;occ; 116;   0;12550
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   4; -796.6; 24-JUL-2004 21:09:06; Dark ; 43.5;   47; 2Bet CMa ; 1.98; 28000;occ; 87;   0;12550
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   6; -509.5; 24-JUL-2004 21:13:53; Dark ; 42.0; 108;   Alp Col ; 2.65; 15200;occ; 84;   0;12550
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  11; 670.5; 24-JUL-2004 21:33:33; Dark ; 42.0; 148;   Alp Tuc ; 2.88; 4100;occ; 84;   0;12551
  12; 780.8; 24-JUL-2004 21:35:23; Dark ; 64.5;   63;   Bet Gru ; 2.15; 2800;occ; 129;   0;12551
  13; 881.4; 24-JUL-2004 21:37:04; Dark ; 40.0;   45;   Alp Pav ; 1.94; 26000;occ; 80;   0;12551
  14; 1051.8; 24-JUL-2004 21:39:54; Dark ; 77.5;   18; 24Alp PsA ; 1.17; 9700;occ; 155;   0;12551
  15; 1344.1; 24-JUL-2004 21:44:46; Dark ; 42.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 85;   0;12551
  16; 1457.5; 24-JUL-2004 21:46:40; Bright; 42.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 84;   0;12551
  17; 1559.2; 24-JUL-2004 21:48:21; Bright; 62.5; 142; 49Del Cap ; 2.85; 8900;occ; 125;   0;12551
  18; 1851.2; 24-JUL-2004 21:53:13; Bright; 65.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 130;   0;12551
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  24; 3004.1; 24-JUL-2004 22:12:26; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80;   0;12551
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  26; 3256.1; 24-JUL-2004 22:16:38; Bright; 42.0;   60; 7Bet UMi ; 2.08; 3950;occ; 84;   0;12551
  27; 3439.4; 24-JUL-2004 22:19:42; Bright; 36.5;   49; 1Alp UMi ; 1.99; 6300;occ; 73;   0;12551
  28; 3555.6; 24-JUL-2004 22:21:38; Bright; 51.5;   74; 11Bet Cas ; 2.27; 6600;occ; 103;   0;12551
  29; 3660.3; 24-JUL-2004 22:23:22; Bright; 49.0;   76; 27Gam Cas ; 2.30; 30000;occ; 98;   0;12551
  30; 4009.0; 24-JUL-2004 22:29:11; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89;   0;12551

  31; 4100.4; 24-JUL-2004 22:30:43; Bright; 45.0;   35; 33Alp Per ; 1.79; 6250;occ; 90;   0;12551
  32; 4200.7; 24-JUL-2004 22:32:23; Bright; 75.5;   73; 57Gam1And ; 2.26; 13100;occ; 151;   0;12551
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  38; 5132.7; 24-JUL-2004 22:47:55; Dark ; 49.5;   7; 19Bet Ori ; 0.10; 14000;occ; 99;   0;12551
  39; 5239.3; 24-JUL-2004 22:49:41; Dark ; 43.0;   47; 2Bet CMa ; 1.98; 28000;occ; 86;   0;12551
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   3; -363.6; 24-JUL-2004 22:56:54; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12551
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   5; 238.9; 24-JUL-2004 23:06:57; Dark ; 45.0;   9;   Alp Eri ; 0.45; 24000;occ; 90;   0;12552
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   8; 779.1; 24-JUL-2004 23:15:57; Dark ; 60.5;   63;   Bet Gru ; 2.15; 2800;occ; 121;   0;12552
   9; 879.3; 24-JUL-2004 23:17:37; Dark ; 43.5;   45;   Alp Pav ; 1.94; 26000;occ; 87;   0;12552
  10; 1053.0; 24-JUL-2004 23:20:31; Dark ; 74.0;   18; 24Alp PsA ; 1.17; 9700;occ; 148;   0;12552
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  28; 4200.2; 25-JUL-2004 00:12:58; Bright; 72.0;   73; 57Gam1And ; 2.26; 13100;occ; 144;   0;12552
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  29; -509.7; 24-JUL-2004 19:33:17; Dark  ;  44.5;  108;   Alp Col  ; 2.65; 15200;occ;  89;   0;12549
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   5;-1836.4; 25-JUL-2004 03:34:09; Bright; 76.5;   73; 57Gam1And ; 2.26; 13100;occ; 153;   0;12554
   6;-1656.9; 25-JUL-2004 03:37:09; Dark ; 192.0;   53; 43Bet And ; 2.05; 3300;occ; 384;   0;12554
   7;-1377.3; 25-JUL-2004 03:41:48; Dark ; 55.0; 146; 25Eta Tau ; 2.87; 15200;occ; 110;   0;12554
   8;-1281.1; 25-JUL-2004 03:43:25; Dark ; 54.5;   13; 87Alp Tau ; 0.87; 3800;occ; 109;   0;12554
   9;-1159.4; 25-JUL-2004 03:45:26; Dark ; 44.5;   27; 24Gam Ori ; 1.64; 26000;occ; 89;   0;12554
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  32; 3006.9; 25-JUL-2004 06:35:29; Bright;  37.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  74;   0;12556
  33; 3132.8; 25-JUL-2004 06:37:35; Bright;  43.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  86;   0;12556
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   6;-1376.6; 25-JUL-2004 07:03:01; Dark ; 53.0; 146; 25Eta Tau ; 2.87; 15200;occ; 106;   0;12556
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  11; -794.9; 25-JUL-2004 07:12:43; Dark ; 37.5;   47; 2Bet CMa ; 1.98; 28000;occ; 75;   0;12556
  12; -711.7; 25-JUL-2004 07:14:06; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81;   0;12556
  13; -591.2; 25-JUL-2004 07:16:06; Dark ; 39.0; 177; 1Zet CMa ; 3.02; 26000;occ; 78;   0;12556
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  19; 675.1; 25-JUL-2004 07:37:13; Dark ; 40.0; 148;   Alp Tuc ; 2.88; 4100;occ; 80;   0;12557
  20; 786.0; 25-JUL-2004 07:39:04; Dark ; 63.5;   63;   Bet Gru ; 2.15; 2800;occ; 127;   0;12557
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  22; 1056.2; 25-JUL-2004 07:43:34; Dark ; 88.0;   18; 24Alp PsA ; 1.17; 9700;occ; 176;   0;12557
  23; 1345.4; 25-JUL-2004 07:48:23; Dark ; 44.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 88;   0;12557
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   6;-3226.1; 25-JUL-2004 08:12:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76;   0;12557
   7;-3028.3; 25-JUL-2004 08:16:05; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76;   0;12557
   8;-2903.8; 25-JUL-2004 08:18:10; Bright; 42.5;   89; 5Alp Cep ; 2.45; 8000;occ; 85;   0;12557
   9;-2774.9; 25-JUL-2004 08:20:19; Bright; 36.0;   60; 7Bet UMi ; 2.08; 3950;occ; 72;   0;12557
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  22; -794.6; 25-JUL-2004 08:53:19; Dark ; 41.5;   47; 2Bet CMa ; 1.98; 28000;occ; 83;   0;12557
  23; -711.4; 25-JUL-2004 08:54:42; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85;   0;12557
  24; -591.2; 25-JUL-2004 08:56:42; Dark ; 40.5; 177; 1Zet CMa ; 3.02; 26000;occ; 81;   0;12557
  25; -504.6; 25-JUL-2004 08:58:09; Dark ; 40.0; 108;   Alp Col ; 2.65; 15200;occ; 80;   0;12557
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  30; 675.4; 25-JUL-2004 09:17:49; Dark ; 42.0; 148;   Alp Tuc ; 2.88; 4100;occ; 84;   0;12558
  31; 786.6; 25-JUL-2004 09:19:40; Dark ; 60.0;   63;   Bet Gru ; 2.15; 2800;occ; 120;   0;12558
  32; 884.6; 25-JUL-2004 09:21:18; Dark ; 40.5;   45;   Alp Pav ; 1.94; 26000;occ; 81;   0;12558
  33; 1057.8; 25-JUL-2004 09:24:11; Dark ; 79.0;   18; 24Alp PsA ; 1.17; 9700;occ; 158;   0;12558
  34; 1345.5; 25-JUL-2004 09:28:59; Dark ; 41.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 83;   0;12558
  35; 1460.1; 25-JUL-2004 09:30:54; Bright; 40.5;   57; 34Sig Sgr ; 2.07; 26000;occ; 81;   0;12558
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   3;-3702.9; 25-JUL-2004 09:45:27; Bright; 79.0;   61; 8Eps Peg ; 2.10; 3900;occ; 158;   0;12558
   4;-3469.7; 25-JUL-2004 09:49:20; Bright; 38.0;   5; 3Alp Lyr ; 0.03; 11000;occ; 76;   0;12558
   5;-3318.6; 25-JUL-2004 09:51:51; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79;   0;12558
   6;-3225.9; 25-JUL-2004 09:53:24; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74;   0;12558
   7;-3028.3; 25-JUL-2004 09:56:41; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78;   0;12558
   8;-2904.4; 25-JUL-2004 09:58:45; Bright; 40.0;   89; 5Alp Cep ; 2.45; 8000;occ; 80;   0;12558
   9;-2774.9; 25-JUL-2004 10:00:55; Bright; 38.5;   60; 7Bet UMi ; 2.08; 3950;occ; 77;   0;12558
  10;-2594.9; 25-JUL-2004 10:03:55; Bright; 38.0;   49; 1Alp UMi ; 1.99; 6300;occ; 76;   0;12558
  11;-2485.9; 25-JUL-2004 10:05:44; Bright; 51.0;   74; 11Bet Cas ; 2.27; 6600;occ; 102;   0;12558
  12;-2380.1; 25-JUL-2004 10:07:29; Bright; 48.5;   76; 27Gam Cas ; 2.30; 30000;occ; 97;   0;12558
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  15;-1838.5; 25-JUL-2004 10:16:31; Bright; 74.0;   73; 57Gam1And ; 2.26; 13100;occ; 148;   0;12558
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  23; -711.0; 25-JUL-2004 10:35:18; Dark ; 44.0; 139; 9Bet Lep ; 2.83; 5600;occ; 88;   0;12558
  24; -591.3; 25-JUL-2004 10:37:18; Dark ; 38.5; 177; 1Zet CMa ; 3.02; 26000;occ; 77;   0;12558
  25; -504.6; 25-JUL-2004 10:38:45; Dark ; 38.0; 108;   Alp Col ; 2.65; 15200;occ; 76;   0;12558
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  30; 675.8; 25-JUL-2004 10:58:25; Dark ; 42.0; 148;   Alp Tuc ; 2.88; 4100;occ; 84;   0;12559
  31; 787.1; 25-JUL-2004 11:00:17; Dark ; 65.0;   63;   Bet Gru ; 2.15; 2800;occ; 130;   0;12559
  32; 884.5; 25-JUL-2004 11:01:54; Dark ; 41.0;   45;   Alp Pav ; 1.94; 26000;occ; 82;   0;12559
  33; 1059.3; 25-JUL-2004 11:04:49; Dark ; 82.5;   18; 24Alp PsA ; 1.17; 9700;occ; 165;   0;12559
  34; 1345.4; 25-JUL-2004 11:09:35; Dark ; 39.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 78;   0;12559
  35; 1460.1; 25-JUL-2004 11:11:30; Bright; 39.5;   57; 34Sig Sgr ; 2.07; 26000;occ; 79;   0;12559
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   3;-3703.2; 25-JUL-2004 11:26:02; Bright; 75.5;   61; 8Eps Peg ; 2.10; 3900;occ; 151;   0;12559
   4;-3470.3; 25-JUL-2004 11:29:55; Bright; 40.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 81;   0;12559
   5;-3319.4; 25-JUL-2004 11:32:26; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84;   0;12559
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  11;-2486.7; 25-JUL-2004 11:46:19; Bright; 51.5;   74; 11Bet Cas ; 2.27; 6600;occ; 103;   0;12559
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  15;-1838.6; 25-JUL-2004 11:57:07; Bright; 74.0;   73; 57Gam1And ; 2.26; 13100;occ; 148;   0;12559
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  24; -591.5; 25-JUL-2004 12:17:54; Dark ; 39.5; 177; 1Zet CMa ; 3.02; 26000;occ; 79;   0;12559
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  27; -106.4; 25-JUL-2004 12:25:59; Dark ; 45.0; 157;   The1Eri ; 2.91; 9300;occ; 90;   0;12559
  28; 244.8; 25-JUL-2004 12:31:50; Dark ; 47.5;   9;   Alp Eri ; 0.45; 24000;occ; 95;   0;12560
  29; 400.6; 25-JUL-2004 12:34:26; Dark ; 39.5; 135;   Bet Hyi ; 2.82; 5800;occ; 79;   0;12560
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  31; 676.0; 25-JUL-2004 12:39:01; Dark ; 43.0; 148;   Alp Tuc ; 2.88; 4100;occ; 86;   0;12560
  32; 787.6; 25-JUL-2004 12:40:53; Dark ; 53.0;   63;   Bet Gru ; 2.15; 2800;occ; 106;   0;12560
  33; 884.8; 25-JUL-2004 12:42:30; Dark ; 39.5;   45;   Alp Pav ; 1.94; 26000;occ; 79;   0;12560
  34; 1059.9; 25-JUL-2004 12:45:25; Dark ; 74.5;   18; 24Alp PsA ; 1.17; 9700;occ; 149;   0;12560
  35; 1345.8; 25-JUL-2004 12:50:11; Dark ; 42.0;   38; 20Eps Sgr ; 1.84; 11000;occ; 84;   0;12560
  36; 1460.2; 25-JUL-2004 12:52:06; Bright; 40.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 80;   0;12560
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  29; -104.0; 25-JUL-2004 17:27:49; Dark  ;  46.0;  157;   The1Eri  ; 2.91;  9300;occ;  92;   0;12562
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27; -794.7; 25-JUL-2004 20:37:30; Dark ; 42.0;   47; 2Bet CMa ; 1.98; 28000;occ; 84;   0;12564
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30; -504.6; 25-JUL-2004 20:42:21; Dark ; 42.5; 108;   Alp Col ; 2.65; 15200;occ; 85;   0;12564
31; -356.0; 25-JUL-2004 20:44:49; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12564
32; -102.8; 25-JUL-2004 20:49:02; Dark ; 48.0; 157;   The1Eri ; 2.91; 9300;occ; 96;   0;12564
33; 247.6; 25-JUL-2004 20:54:53; Dark ; 51.0;   9;   Alp Eri ; 0.45; 24000;occ; 102;   0;12565
34; 401.7; 25-JUL-2004 20:57:27; Dark ; 38.5; 135;   Bet Hyi ; 2.82; 5800;occ; 77;   0;12565
35; 497.5; 25-JUL-2004 20:59:03; Dark ; 60.0;   84;   Alp Phe ; 2.40; 4500;occ; 120;   0;12565
36; 677.8; 25-JUL-2004 21:02:03; Dark ; 42.5; 148;   Alp Tuc ; 2.88; 4100;occ; 85;   0;12565
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 3; -506.0; 26-JUL-2004 00:03:31; Dark ; 44.5; 108;   Alp Col ; 2.65; 15200;occ; 89;   0;12566
 4; -354.8; 26-JUL-2004 00:06:02; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12566
 5; -101.6; 26-JUL-2004 00:10:15; Dark ; 47.5; 157;   The1Eri ; 2.91; 9300;occ; 95;   0;12566
 6; 248.3; 26-JUL-2004 00:16:05; Dark ; 45.5;   9;   Alp Eri ; 0.45; 24000;occ; 91;   0;12567
 7; 402.9; 26-JUL-2004 00:18:40; Dark ; 40.5; 135;   Bet Hyi ; 2.82; 5800;occ; 81;   0;12567
 8; 499.7; 26-JUL-2004 00:20:17; Dark ; 62.0;   84;   Alp Phe ; 2.40; 4500;occ; 124;   0;12567
 9; 678.8; 26-JUL-2004 00:23:16; Dark ; 43.0; 148;   Alp Tuc ; 2.88; 4100;occ; 86;   0;12567
10; 885.6; 26-JUL-2004 00:26:42; Dark ; 42.0;   45;   Alp Pav ; 1.94; 26000;occ; 84;   0;12567
11; 1066.4; 26-JUL-2004 00:29:43; Dark ; 75.0;   18; 24Alp PsA ; 1.17; 9700;occ; 150;   0;12567
12; 1347.0; 26-JUL-2004 00:34:24; Dark ; 43.5;   38; 20Eps Sgr ; 1.84; 11000;occ; 87;   0;12567
13; 1460.5; 26-JUL-2004 00:36:17; Bright; 41.0;   57; 34Sig Sgr ; 2.07; 26000;occ; 82;   0;12567
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15; 1844.4; 26-JUL-2004 00:42:41; Bright; 63.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 126;   0;12567
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17; 2162.6; 26-JUL-2004 00:47:59; Bright; 37.5;   59; 55Alp Oph ; 2.08; 8900;occ; 75;   0;12567
18; 2321.9; 26-JUL-2004 00:50:39; Bright; 72.0;   61; 8Eps Peg ; 2.10; 3900;occ; 144;   0;12567
19; 2563.0; 26-JUL-2004 00:54:40; Bright; 39.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 79;   0;12567
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21; 2809.7; 26-JUL-2004 00:58:47; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75;   0;12567
22; 3008.7; 26-JUL-2004 01:02:06; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12567
23; 3127.1; 26-JUL-2004 01:04:04; Bright; 42.0;   89; 5Alp Cep ; 2.45; 8000;occ; 84;   0;12567
24; 3261.8; 26-JUL-2004 01:06:19; Bright; 36.5;   60; 7Bet UMi ; 2.08; 3950;occ; 73;   0;12567
25; 3437.4; 26-JUL-2004 01:09:14; Bright; 40.5;   49; 1Alp UMi ; 1.99; 6300;occ; 81;   0;12567
26; 3542.9; 26-JUL-2004 01:11:00; Bright; 53.5;   74; 11Bet Cas ; 2.27; 6600;occ; 107;   0;12567
27; 3650.3; 26-JUL-2004 01:12:47; Bright; 49.0;   76; 27Gam Cas ; 2.30; 30000;occ; 98;   0;12567
28; 4004.3; 26-JUL-2004 01:18:41; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91;   0;12567
29; 4097.0; 26-JUL-2004 01:20:14; Bright; 48.5;   35; 33Alp Per ; 1.79; 6250;occ; 97;   0;12567
30; 4193.9; 26-JUL-2004 01:21:51; Bright; 74.0;   73; 57Gam1And ; 2.26; 13100;occ; 148;   0;12567
31; 4373.8; 26-JUL-2004 01:24:51; Dark ; 192.0;   53; 43Bet And ; 2.05; 3300;occ; 384;   0;12567

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  33; 4756.3; 26-JUL-2004 01:31:13; Dark  ;  59.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 118;   0;12567
  34; 4881.9; 26-JUL-2004 01:33:19; Dark  ;  43.0;   27; 24Gam Ori  ; 1.64; 26000;occ;  86;   0;12567
  35; 4995.4; 26-JUL-2004 01:35:12; Dark  ;  43.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  86;   0;12567
  36; 5137.7; 26-JUL-2004 01:37:35; Dark  ;  50.0;    7; 19Bet Ori  ; 0.10; 14000;occ; 100;   0;12567
  37; 5242.6; 26-JUL-2004 01:39:19; Dark  ;  14.5;   47;  2Bet CMa  ; 1.98; 28000;occ;  29;   0;12567
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   2; -793.3; 26-JUL-2004 01:39:19; Dark  ;  40.5;   47;  2Bet CMa  ; 1.98; 28000;occ;  81;   0;12567
   3; -708.5; 26-JUL-2004 01:40:44; Dark  ;  42.5;  139;  9Bet Lep  ; 2.83;  5600;occ;  85;   0;12567
   4; -591.2; 26-JUL-2004 01:42:42; Dark  ;  39.0;  177;  1Zet CMa  ; 3.02; 26000;occ;  78;   0;12567
   5; -503.1; 26-JUL-2004 01:44:10; Dark  ;  39.5;  108;   Alp Col  ; 2.65; 15200;occ;  79;   0;12567
   6; -354.2; 26-JUL-2004 01:46:39; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;12567
   7; -100.8; 26-JUL-2004 01:50:52; Dark  ;  48.5;  157;   The1Eri  ; 2.91;  9300;occ;  97;   0;12567
   8;  249.6; 26-JUL-2004 01:56:42; Dark  ;  58.0;    9;   Alp Eri  ; 0.45; 24000;occ; 116;   0;12568
   9;  403.2; 26-JUL-2004 01:59:16; Dark  ;  40.0;  135;   Bet Hyi  ; 2.82;  5800;occ;  80;   0;12568
  10;  500.9; 26-JUL-2004 02:00:54; Dark  ;  56.5;   84;   Alp Phe  ; 2.40;  4500;occ; 113;   0;12568
  11;  678.7; 26-JUL-2004 02:03:51; Dark  ;  42.5;  148;   Alp Tuc  ; 2.88;  4100;occ;  85;   0;12568
  12;  884.1; 26-JUL-2004 02:07:17; Dark  ;  47.5;   45;   Alp Pav  ; 1.94; 26000;occ;  95;   0;12568
  13; 1067.5; 26-JUL-2004 02:10:20; Dark  ;  76.5;   18; 24Alp PsA  ; 1.17;  9700;occ; 153;   0;12568
  14; 1346.7; 26-JUL-2004 02:14:59; Dark  ;  43.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  86;   0;12568
  15; 1461.2; 26-JUL-2004 02:16:54; Bright;  40.5;   57; 34Sig Sgr  ; 2.07; 26000;occ;  81;   0;12568
  16; 1561.4; 26-JUL-2004 02:18:34; Bright;  60.5;  142; 49Del Cap  ; 2.85;  8900;occ; 121;   0;12568
  17; 1844.0; 26-JUL-2004 02:23:17; Bright;  63.0;  154; 22Bet Aqr  ; 2.90;  5700;occ; 126;   0;12568
  18; 2063.5; 26-JUL-2004 02:26:56; Bright;  44.0;   11; 53Alp Aql  ; 0.76;  8000;occ;  88;   0;12568
  19; 2163.1; 26-JUL-2004 02:28:36; Bright;  39.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  79;   0;12568
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  21; 2563.0; 26-JUL-2004 02:35:16; Bright;  39.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  79;   0;12568
  22; 2713.5; 26-JUL-2004 02:37:46; Bright;  40.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  80;   0;12568
  23; 2808.2; 26-JUL-2004 02:39:21; Bright;  38.5;  130; 23Bet Dra  ; 2.80;  5800;occ;  77;   0;12568
  24; 3007.3; 26-JUL-2004 02:42:40; Bright;  40.0;  119; 14Eta Dra  ; 2.73;  4700;occ;  80;   0;12568
  25; 3126.4; 26-JUL-2004 02:44:39; Bright;  40.0;   89;  5Alp Cep  ; 2.45;  8000;occ;  80;   0;12568
  26; 3260.5; 26-JUL-2004 02:46:53; Bright;  41.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  82;   0;12568
  27; 3439.3; 26-JUL-2004 02:49:52; Bright;  38.5;   49;  1Alp UMi  ; 1.99;  6300;occ;  77;   0;12568
  28; 3542.2; 26-JUL-2004 02:51:35; Bright;  42.0;   74; 11Bet Cas  ; 2.27;  6600;occ;  84;   0;12568
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   4;-1939.4; 26-JUL-2004 03:00:49; Bright;  46.5;   35; 33Alp Per  ; 1.79;  6250;occ;  93;   0;12568
   5;-1842.6; 26-JUL-2004 03:02:26; Bright;  75.5;   73; 57Gam1And  ; 2.26; 13100;occ; 151;   0;12568
   6;-1662.5; 26-JUL-2004 03:05:26; Dark  ; 192.0;   53; 43Bet And  ; 2.05;  3300;occ; 384;   0;12568
   7;-1372.2; 26-JUL-2004 03:10:16; Dark  ;  54.0;  146; 25Eta Tau  ; 2.87; 15200;occ; 108;   0;12568
   8;-1277.5; 26-JUL-2004 03:11:51; Dark  ;  59.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 118;   0;12568
   9;-1153.7; 26-JUL-2004 03:13:55; Dark  ;  43.0;   27; 24Gam Ori  ; 1.64; 26000;occ;  86;   0;12568
  10;-1040.2; 26-JUL-2004 03:15:48; Dark  ;  45.0;   30; 46Eps Ori  ; 1.69; 30000;occ;  90;   0;12568
  11; -899.5; 26-JUL-2004 03:18:09; Dark  ;  48.0;    7; 19Bet Ori  ; 0.10; 14000;occ;  96;   0;12568
  12; -793.4; 26-JUL-2004 03:19:55; Dark  ;  37.0;   47;  2Bet CMa  ; 1.98; 28000;occ;  74;   0;12568
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   6;-3469.8; 26-JUL-2004 12:38:54; Bright; 35.5;   5; 3Alp Lyr ; 0.03; 11000;occ; 71;   0;12574
   7;-3323.3; 26-JUL-2004 12:41:21; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79;   0;12574
   8;-3223.7; 26-JUL-2004 12:43:00; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76;   0;12574
   9;-3023.9; 26-JUL-2004 12:46:20; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77;   0;12574
  10;-2912.0; 26-JUL-2004 12:48:12; Bright; 41.5;   89; 5Alp Cep ; 2.45; 8000;occ; 83;   0;12574
  11;-2771.4; 26-JUL-2004 12:50:33; Bright; 39.5;   60; 7Bet UMi ; 2.08; 3950;occ; 79;   0;12574
  12;-2595.4; 26-JUL-2004 12:53:29; Bright; 37.5;   49; 1Alp UMi ; 1.99; 6300;occ; 75;   0;12574
  13;-2498.8; 26-JUL-2004 12:55:05; Bright; 53.0;   74; 11Bet Cas ; 2.27; 6600;occ; 106;   0;12574
  14;-2390.4; 26-JUL-2004 12:56:54; Bright; 49.0;   76; 27Gam Cas ; 2.30; 30000;occ; 98;   0;12574
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  16;-1941.1; 26-JUL-2004 13:04:23; Bright; 48.5;   35; 33Alp Per ; 1.79; 6250;occ; 97;   0;12574
  17;-1844.8; 26-JUL-2004 13:05:59; Bright; 74.0;   73; 57Gam1And ; 2.26; 13100;occ; 148;   0;12574
  18;-1665.3; 26-JUL-2004 13:08:59; Dark ; 168.0;   53; 43Bet And ; 2.05; 3300;occ; 336;   0;12574

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  20;-1274.9; 26-JUL-2004 13:15:29; Dark  ;  59.0;   13; 87Alp Tau  ; 0.87;  3800;occ; 118;   0;12574
  21;-1150.9; 26-JUL-2004 13:17:33; Dark  ;  44.5;   27; 24Gam Ori  ; 1.64; 26000;occ;  89;   0;12574
  22;-1035.4; 26-JUL-2004 13:19:29; Dark  ;  43.5;   30; 46Eps Ori  ; 1.69; 30000;occ;  87;   0;12574
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  29;  -94.1; 26-JUL-2004 13:35:10; Dark  ;  48.5;  157;   The1Eri  ; 2.91;  9300;occ;  97;   0;12574
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   2;-4475.4; 26-JUL-2004 14:02:45; Bright;  60.5;  142; 49Del Cap  ; 2.85;  8900;occ; 121;   0;12575
   3;-4194.3; 26-JUL-2004 14:07:26; Bright;  61.0;  154; 22Bet Aqr  ; 2.90;  5700;occ; 122;   0;12575
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   8;-3323.5; 26-JUL-2004 14:21:57; Bright;  38.0;  144; 18Del Cyg  ; 2.86; 11000;occ;  76;   0;12575
   9;-3223.2; 26-JUL-2004 14:23:37; Bright;  38.0;  130; 23Bet Dra  ; 2.80;  5800;occ;  76;   0;12575
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  30;  -93.1; 26-JUL-2004 15:15:47; Dark  ;  47.0;  157;   The1Eri  ; 2.91;  9300;occ;  94;   0;12575
  31;  255.8; 26-JUL-2004 15:21:36; Dark  ;  53.0;    9;   Alp Eri  ; 0.45; 24000;occ; 106;   0;12576
  32;  404.5; 26-JUL-2004 15:24:05; Dark  ;  40.5;  135;   Bet Hyi  ; 2.82;  5800;occ;  81;   0;12576
  33;  510.0; 26-JUL-2004 15:25:50; Dark  ;  59.5;   84;   Alp Phe  ; 2.40;  4500;occ; 119;   0;12576
  34;  683.8; 26-JUL-2004 15:28:44; Dark  ;  43.5;  148;   Alp Tuc  ; 2.88;  4100;occ;  87;   0;12576
  35;  876.2; 26-JUL-2004 15:31:56; Dark  ;  49.0;   31;   Alp Gru  ; 1.73; 15200;occ;  98;   0;12576
  36; 1074.5; 26-JUL-2004 15:35:15; Dark  ;  75.0;   18; 24Alp PsA  ; 1.17;  9700;occ; 150;   0;12576
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   4; 1463.8; 26-JUL-2004 22:24:08; Bright;  37.5;   57; 34Sig Sgr  ; 2.07; 26000;occ;  75;   0;12580
   5; 1561.8; 26-JUL-2004 22:25:46; Bright;  58.5;  142; 49Del Cap  ; 2.85;  8900;occ; 117;   0;12580
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   8; 2166.3; 26-JUL-2004 22:35:50; Bright;  40.5;   59; 55Alp Oph  ; 2.08;  8900;occ;  81;   0;12580
   9; 2305.0; 26-JUL-2004 22:38:09; Bright;  70.5;   61;  8Eps Peg  ; 2.10;  3900;occ; 141;   0;12580
  10; 2565.4; 26-JUL-2004 22:42:29; Bright;  43.0;    5;  3Alp Lyr  ; 0.03; 11000;occ;  86;   0;12580
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  23; 4667.6; 26-JUL-2004 23:17:32; Dark ; 56.0; 146; 25Eta Tau ; 2.87; 15200;occ; 112;   0;12580
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   5; -403.1; 26-JUL-2004 23:33:37; Dark ; 59.5;   0;   ; 0.00;   0;occ; 119;   0;12580
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  23; 3013.5; 27-JUL-2004 00:30:33; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69;   0;12581
  24; 3120.7; 27-JUL-2004 00:32:20; Bright; 42.0;   89; 5Alp Cep ; 2.45; 8000;occ; 84;   0;12581
  25; 3265.4; 27-JUL-2004 00:34:45; Bright; 36.0;   60; 7Bet UMi ; 2.08; 3950;occ; 72;   0;12581
  26; 3437.3; 27-JUL-2004 00:37:37; Bright; 37.5;   49; 1Alp UMi ; 1.99; 6300;occ; 75;   0;12581
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   8; 407.5; 27-JUL-2004 01:27:43; Dark ; 40.0; 135;   Bet Hyi ; 2.82; 5800;occ; 80;   0;12582
   9; 516.7; 27-JUL-2004 01:29:32; Dark ; 58.0;   84;   Alp Phe ; 2.40; 4500;occ; 116;   0;12582
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   7;-1271.5; 27-JUL-2004 04:20:56; Dark ; 60.0;   13; 87Alp Tau ; 0.87; 3800;occ; 120;   0;12583
   8;-1148.4; 27-JUL-2004 04:22:59; Dark ; 44.5;   27; 24Gam Ori ; 1.64; 26000;occ; 89;   0;12583
   9;-1034.3; 27-JUL-2004 04:24:53; Dark ; 41.0;   30; 46Eps Ori ; 1.69; 30000;occ; 82;   0;12583
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