

GOMOS Daily Report 27-OCT-2004

Level 0 and Level 1 products

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1. General Info

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

Item	Value
Time of report generation	28OCT2004 05:03:49
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START) (27OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (28OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	0

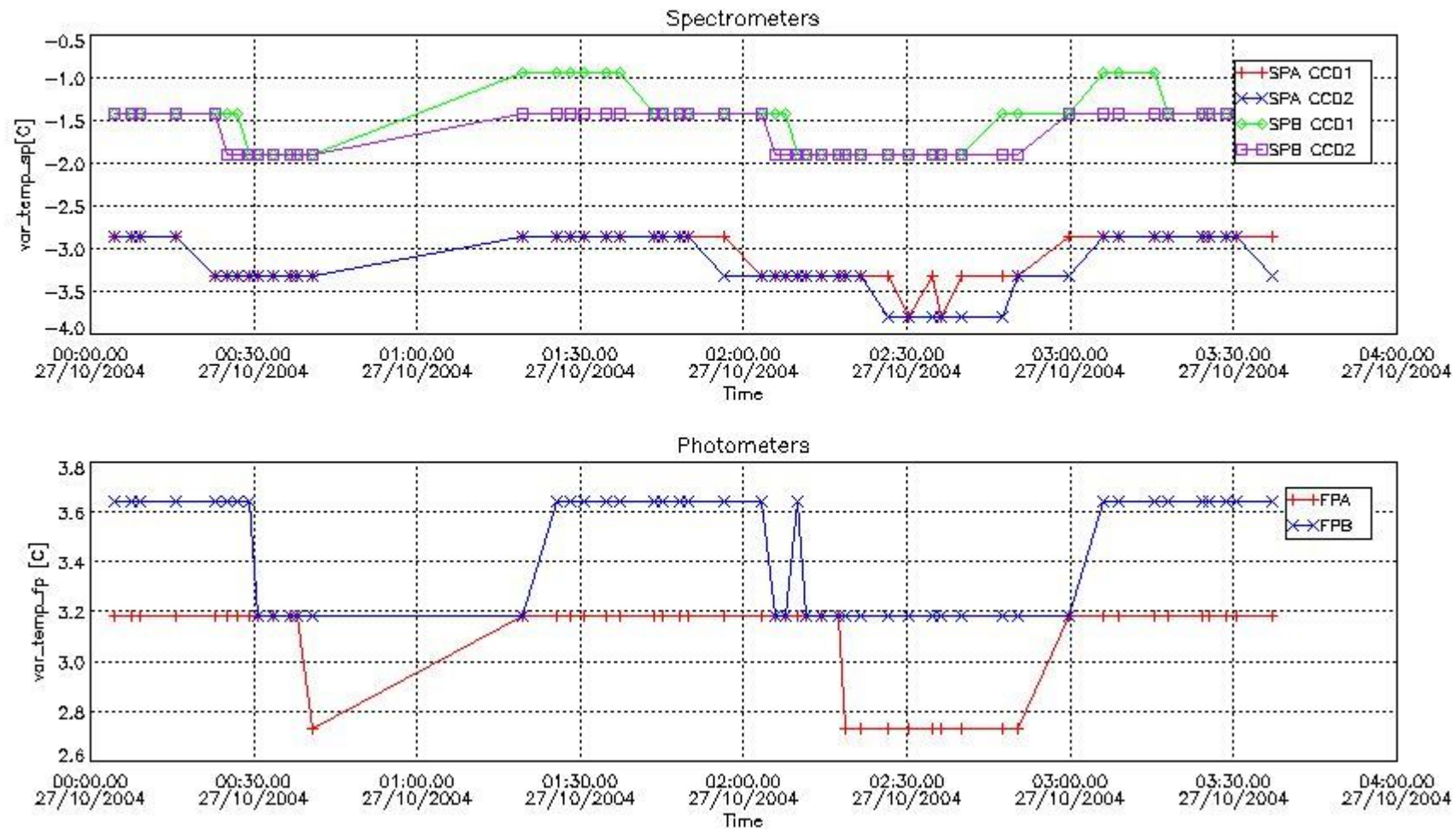
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20041027_000426_000000422031_00317_13898_0007.N1	27-OCT-2004 00:04:26	Dark	42.000	9	Alp Eri	0.45300	24000.	84	13898	No
GOM_TRA_1PNPDE20041027_000731_000000452031_00317_13898_0008.N1	27-OCT-2004 00:07:31	Dark	45.000	157	The1Eri	2.9060	9300.0	90	13898	No
GOM_TRA_1PNPDE20041027_000914_000000442031_00317_13898_0009.N1	27-OCT-2004 00:09:14	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	13898	No
GOM_TRA_1PNPDE20041027_001547_000000462031_00317_13898_0010.N1	27-OCT-2004 00:15:47	Bright	45.500	52	16Bet Cet	2.0370	4500.0	91	13898	No
GOM_TRA_1PNPDE20041027_002249_000000652031_00317_13898_0011.N1	27-OCT-2004 00:22:49	Bright	65.000	94	92Alp Cet	2.5260	3100.0	130	13898	No
GOM_TRA_1PNPDE20041027_002514_000000412031_00317_13898_0012.N1	27-OCT-2004 00:25:14	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13898	No
GOM_TRA_1PNPDE20041027_002659_000000452031_00317_13898_0013.N1	27-OCT-2004 00:26:59	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	13898	No
GOM_TRA_1PNPDE20041027_002908_000000382031_00317_13898_0014.N1	27-OCT-2004 00:29:08	Bright	37.500	58	21Alp And	2.0730	11000.	75	13898	No
GOM_TRA_1PNPDE20041027_003053_000000412031_00317_13898_0015.N1	27-OCT-2004 00:30:53	Bright	40.500	53	43Bet And	2.0480	3300.0	81	13898	No
GOM_TRA_1PNPDE20041027_003338_000000452031_00317_13898_0016.N1	27-OCT-2004 00:33:38	Bright	44.500	73	57Gam1And	2.2600	13100.	89	13898	No
GOM_TRA_1PNPDE20041027_003642_000000392031_00317_13898_0017.N1	27-OCT-2004 00:36:42	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13898	No
GOM_TRA_1PNPDE20041027_003758_000000382031_00317_13898_0018.N1	27-OCT-2004 00:37:58	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	13898	No
GOM_TRA_1PNPDE20041027_004053_000000372031_00317_13898_0019.N1	27-OCT-2004 00:40:53	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	13898	No
GOM_TRA_1PNPDE20041027_011914_000000652031_00317_13898_0000.N1	27-OCT-2004 01:19:14	Dark	64.500	48	30Alp Hya	1.9770	4100.0	129	13898	No
GOM_TRA_1PNPDE20041027_012531_000000392031_00317_13898_0001.N1	27-OCT-2004 01:25:31	Dark	39.000	99	Del Cen	2.5750	26000.	78	13898	No
GOM_TRA_1PNPDE20041027_012815_000000552031_00317_13898_0002.N1	27-OCT-2004 01:28:15	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	13898	No
GOM_TRA_1PNPDE20041027_013042_000000412031_00318_13899_0003.N1	27-OCT-2004 01:30:42	Dark	41.000	71	lot Car	2.2460	7700.0	82	13899	No
GOM_TRA_1PNPDE20041027_013450_000000732031_00318_13899_0004.N1	27-OCT-2004 01:34:50	Dark	73.000	88	31Eta CMa	2.4480	20000.	146	13899	No
GOM_TRA_1PNPDE20041027_013721_000000572031_00318_13899_0005.N1	27-OCT-2004 01:37:21	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	13899	No
GOM_TRA_1PNPDE20041027_014336_000000402031_00318_13899_0006.N1	27-OCT-2004 01:43:36	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13899	No
GOM_TRA_1PNPDE20041027_014501_000000452031_00318_13899_0007.N1	27-OCT-2004 01:45:01	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13899	No
GOM_TRA_1PNPDE20041027_014807_000000452031_00318_13899_0008.N1	27-OCT-2004 01:48:07	Dark	45.000	157	The1Eri	2.9060	9300.0	90	13899	No
GOM_TRA_1PNPDE20041027_014950_000000442031_00318_13899_0009.N1	27-OCT-2004 01:49:50	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	13899	No
GOM_TRA_1PNPDE20041027_015623_000000442031_00318_13899_0010.N1	27-OCT-2004 01:56:23	Bright	44.000	52	16Bet Cet	2.0370	4500.0	88	13899	No
GOM_TRA_1PNPDE20041027_020324_000000632031_00318_13899_0011.N1	27-OCT-2004 02:03:24	Bright	63.000	94	92Alp Cet	2.5260	3100.0	126	13899	No
GOM_TRA_1PNPDE20041027_020550_000000402031_00318_13899_0012.N1	27-OCT-2004 02:05:50	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13899	No
GOM_TRA_1PNPDE20041027_020735_000000442031_00318_13899_0013.N1	27-OCT-2004 02:07:35	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	13899	No
GOM_TRA_1PNPDE20041027_020944_000000392031_00318_13899_0014.N1	27-OCT-2004 02:09:44	Bright	39.000	58	21Alp And	2.0730	11000.	78	13899	No
GOM_TRA_1PNPDE20041027_021130_000000432031_00318_13899_0015.N1	27-OCT-2004 02:11:30	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13899	No
GOM_TRA_1PNPDE20041027_021413_000000442031_00318_13899_0016.N1	27-OCT-2004 02:14:13	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13899	No
GOM_TRA_1PNPDE20041027_021716_000000422031_00318_13899_0017.N1	27-OCT-2004 02:17:16	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	13899	No
GOM_TRA_1PNPDE20041027_021833_000000382031_00318_13899_0018.N1	27-OCT-2004 02:18:33	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	13899	No
GOM_TRA_1PNPDE20041027_022129_000000382031_00318_13899_0019.N1	27-OCT-2004 02:21:29	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13899	No
GOM_TRA_1PNPDE20041027_022634_000000362031_00318_13899_0020.N1	27-OCT-2004 02:26:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	13899	No
GOM_TRA_1PNPDE20041027_023012_000000402031_00318_13899_0000.N1	27-OCT-2004 02:30:12	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13899	No
GOM_TRA_1PNPDE20041027_023447_000000402031_00318_13899_0001.N1	27-OCT-2004 02:34:47	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13899	No
GOM_TRA_1PNPDE20041027_023608_000000392031_00318_13899_0002.N1	27-OCT-2004 02:36:08	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	13899	No
GOM_TRA_1PNPDE20041027_023956_000000432031_00318_13899_0003.N1	27-OCT-2004 02:39:56	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	13899	No
GOM_TRA_1PNPDE20041027_024735_000000542031_00318_13899_0004.N1	27-OCT-2004 02:47:35	Bright	53.500	166	17Eps Leo	2.9800	6000.0	107	13899	No
GOM_TRA_1PNPDE20041027_025013_000002552031_00318_13899_0005.N1	27-OCT-2004 02:50:13	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	13899	No
GOM_TRA_1PNPDE20041027_025950_000000682031_00318_13899_0006.N1	27-OCT-2004 02:59:50	Dark	67.500	48	30Alp Hya	1.9770	4100.0	135	13899	No
GOM_TRA_1PNPDE20041027_030606_000000412031_00318_13899_0007.N1	27-OCT-2004 03:06:06	Dark	41.000	99	Del Cen	2.5750	26000.	82	13899	No
GOM_TRA_1PNPDE20041027_030853_000000592031_00318_13899_0008.N1	27-OCT-2004 03:08:53	Dark	58.500	65	Lam Vel	2.2040	4400.0	117	13899	No
GOM_TRA_1PNPDE20041027_031527_000000732031_00319_13900_0009.N1	27-OCT-2004 03:15:27	Dark	73.000	88	31Eta CMa	2.4480	20000.	146	13900	No
GOM_TRA_1PNPDE20041027_031759_000000522031_00319_13900_0010.N1	27-OCT-2004 03:17:59	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13900	No
GOM_TRA_1PNPDE20041027_032413_000000412031_00319_13900_0011.N1	27-OCT-2004 03:24:13	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13900	No
GOM_TRA_1PNPDE20041027_032537_000000452031_00319_13900_0012.N1	27-OCT-2004 03:25:37	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13900	No
GOM_TRA_1PNPDE20041027_032844_000000452031_00319_13900_0013.N1	27-OCT-2004 03:28:44	Dark	44.500	157	The1Eri	2.9060	9300.0	89	13900	No
GOM_TRA_1PNPDE20041027_033026_000000432031_00319_13900_0014.N1	27-OCT-2004 03:30:26	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	13900	No

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



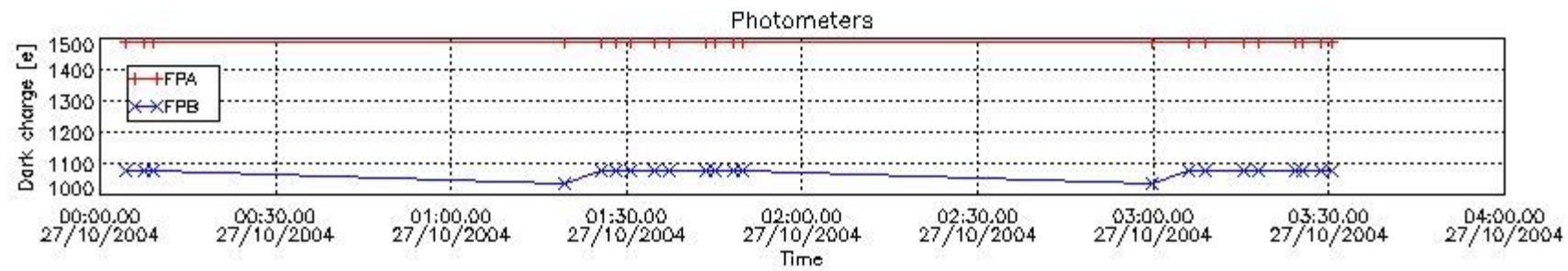
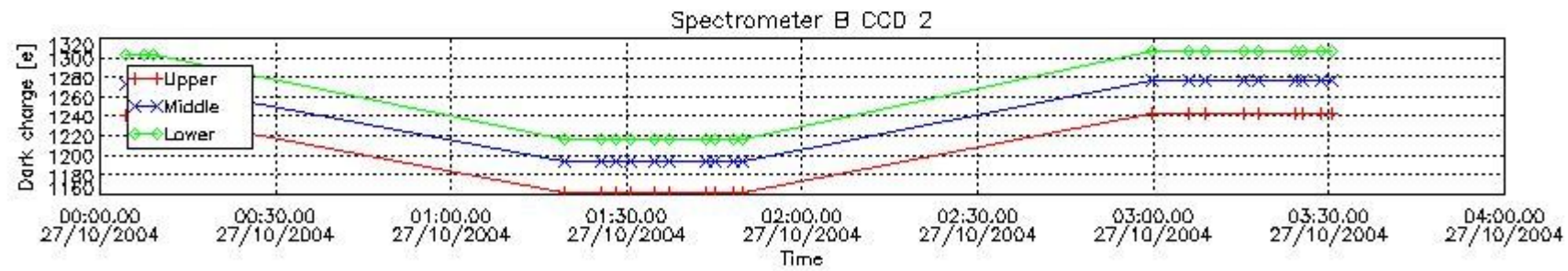
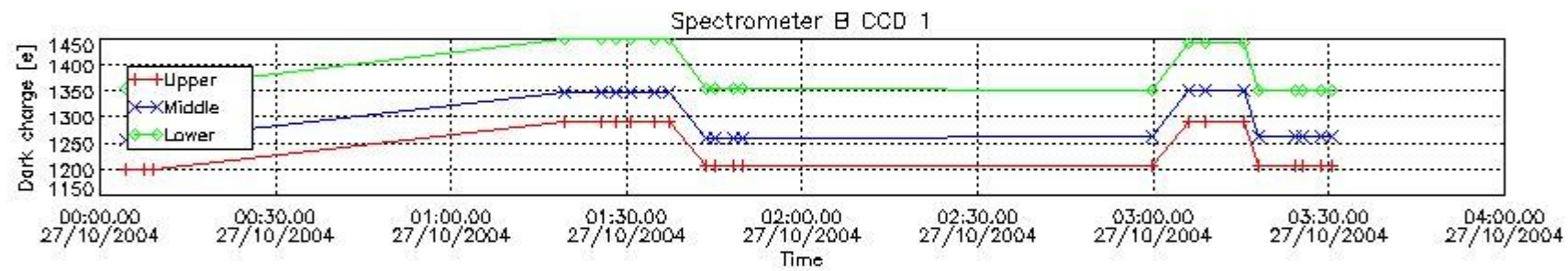
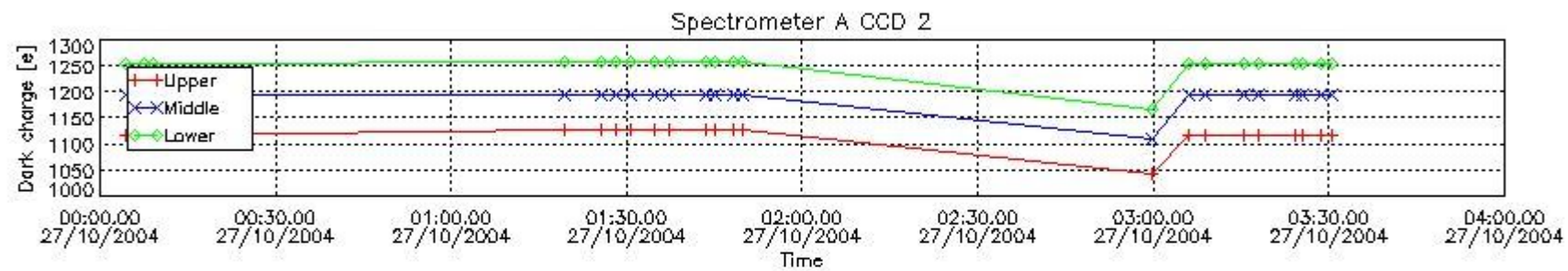
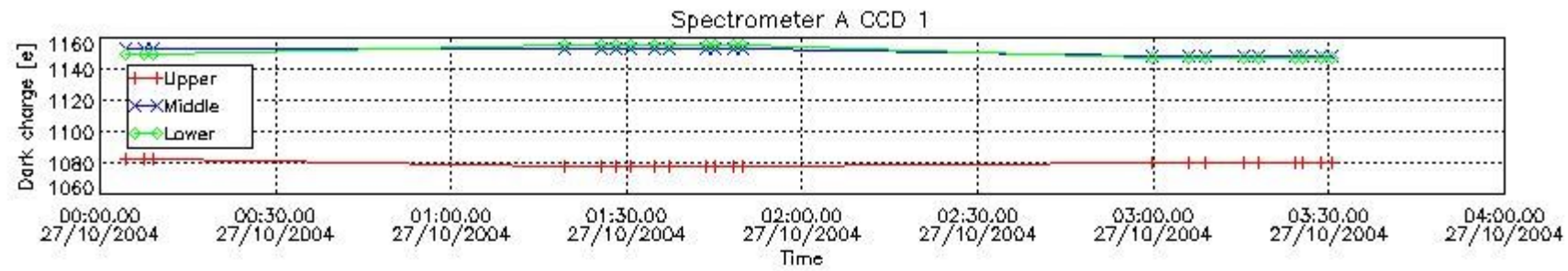
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

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



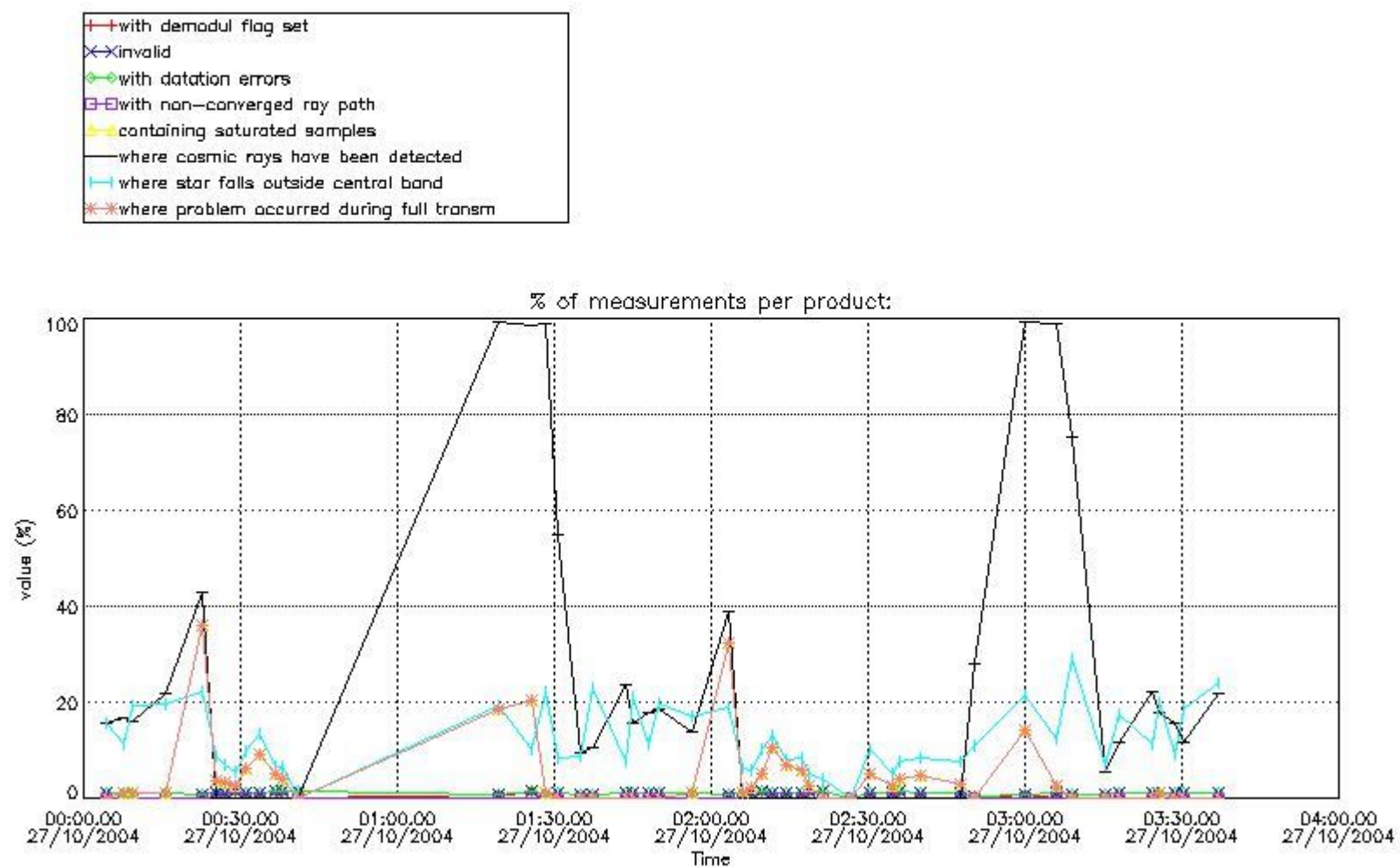
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

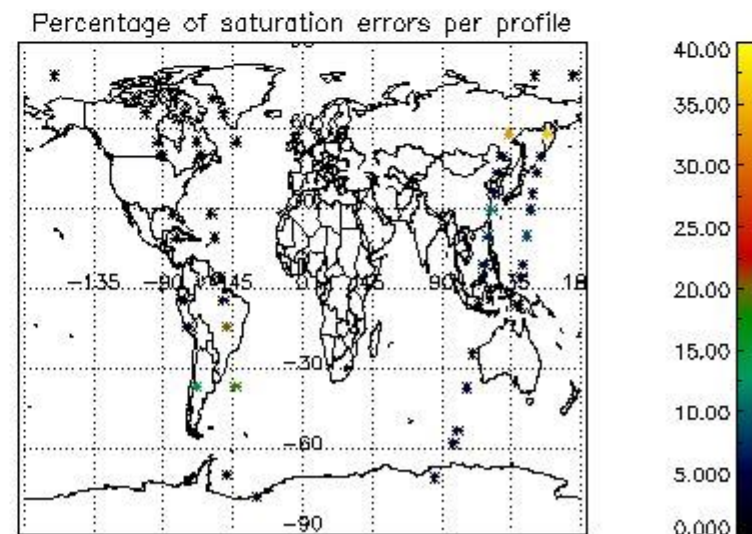
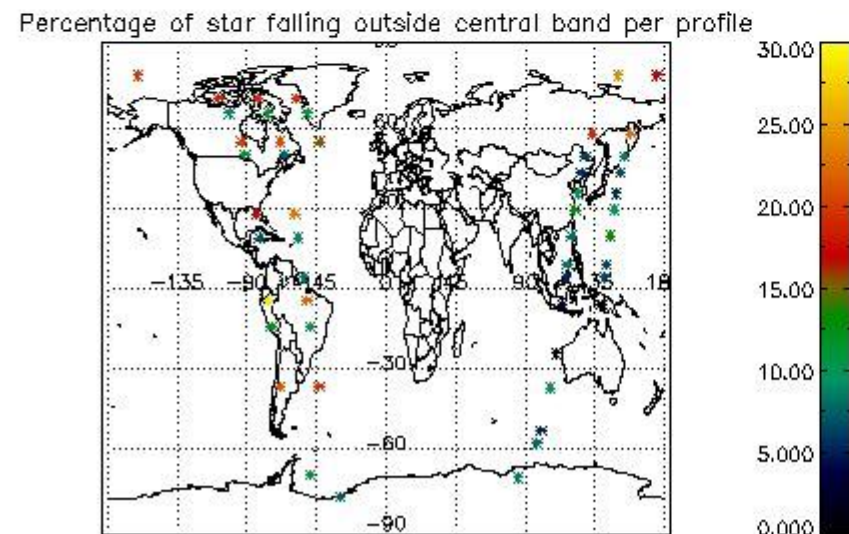
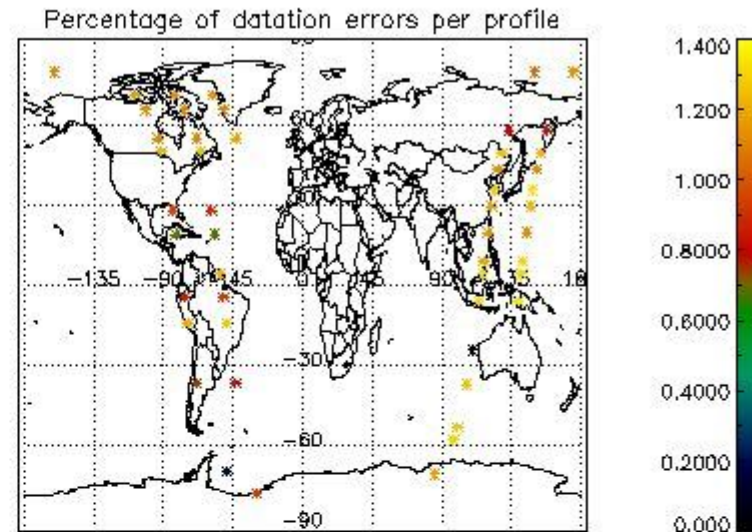
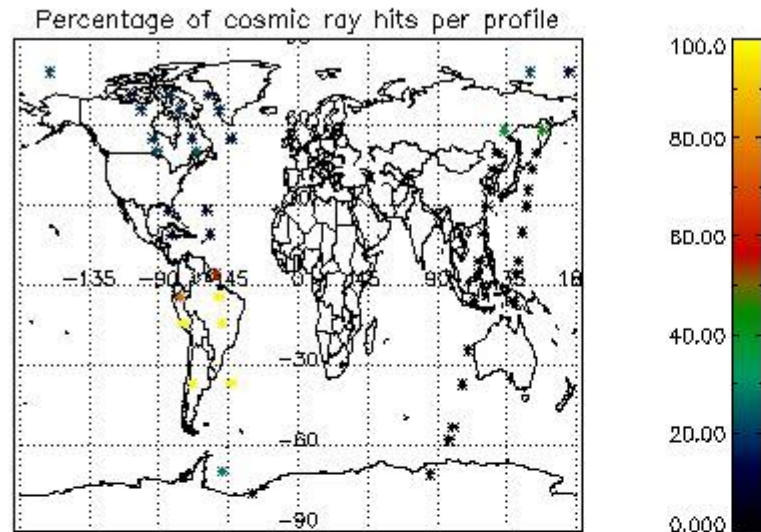
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



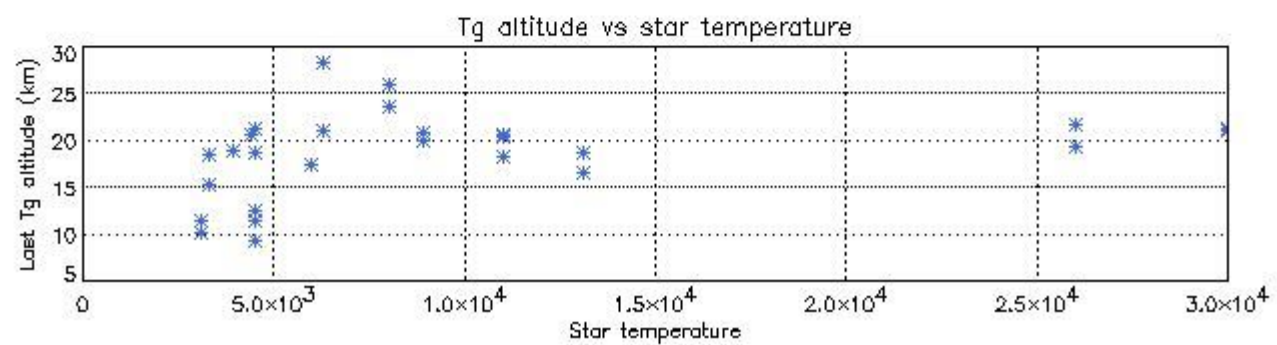
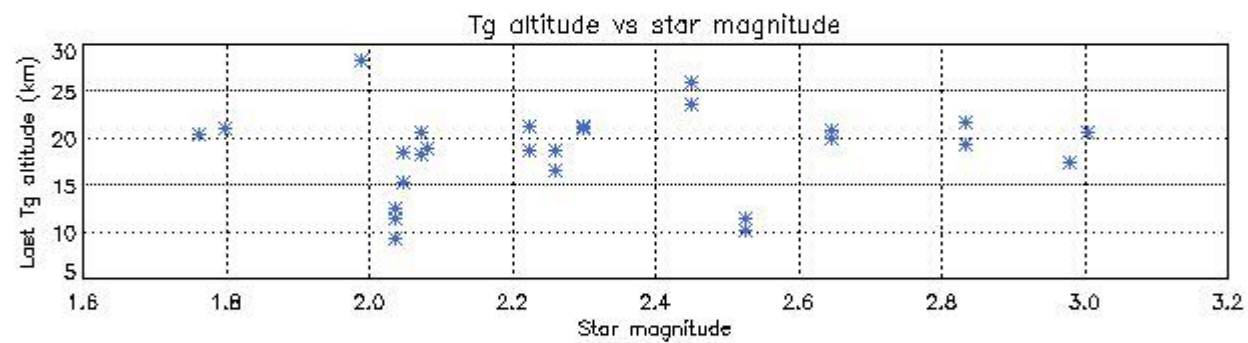
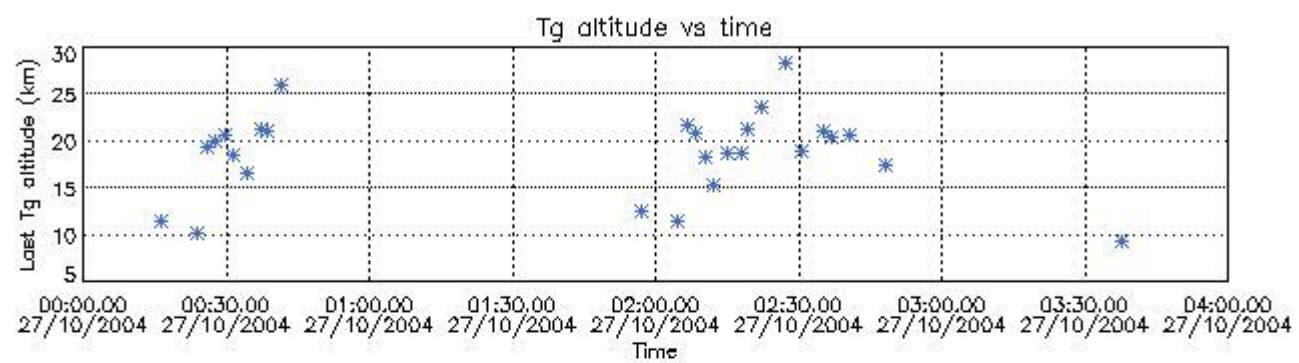
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.302	18.603	18.703
St. deviation:	3.8784	4.5644	0.0000
Maximum:	19.625	28.369	18.703
Minimum:	5.3250	9.3591	18.703
Number of data:	22.000	27.000	1.0000

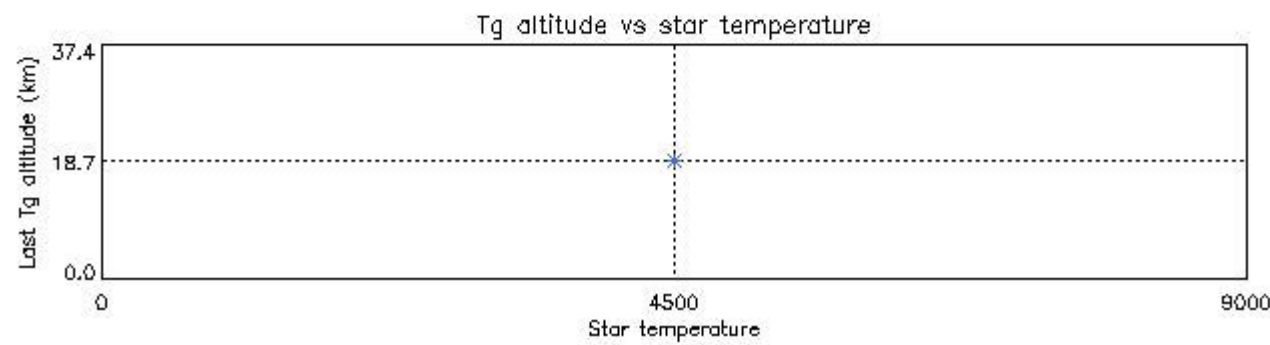
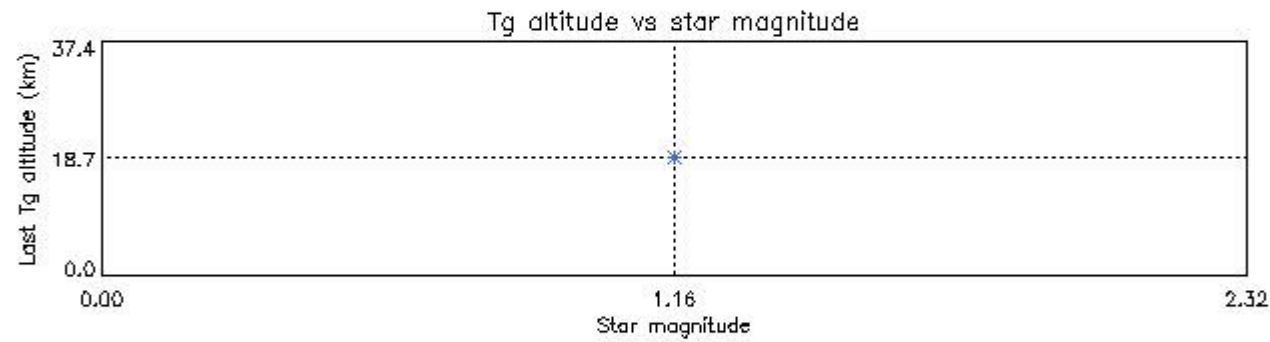
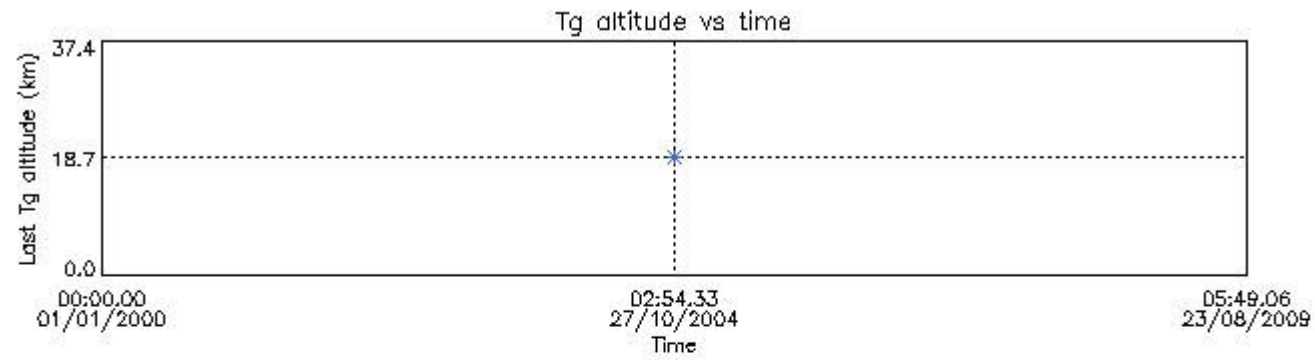
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

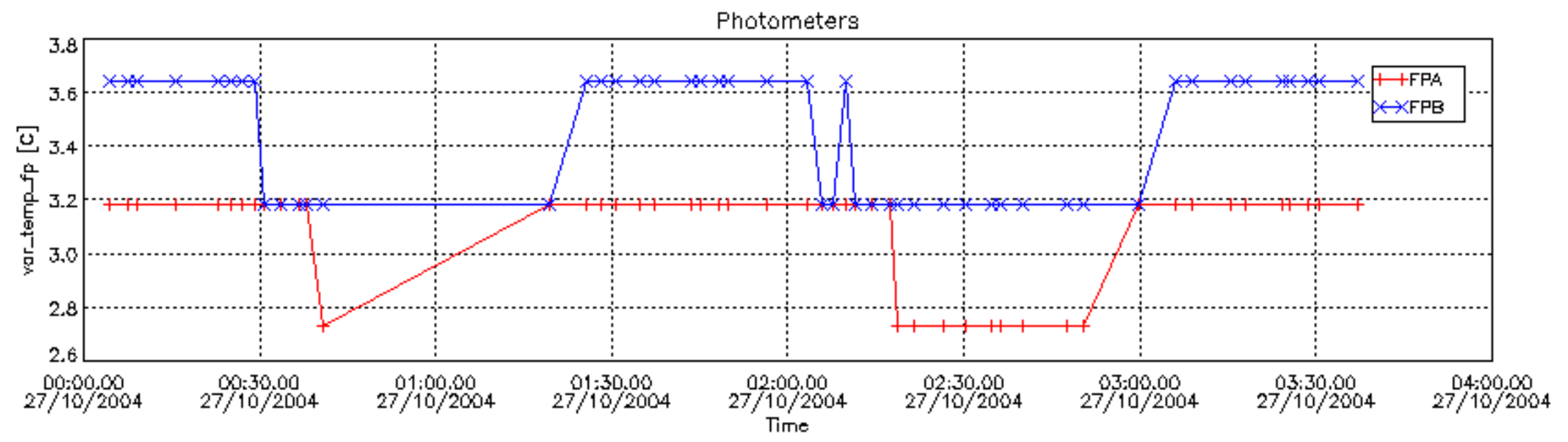
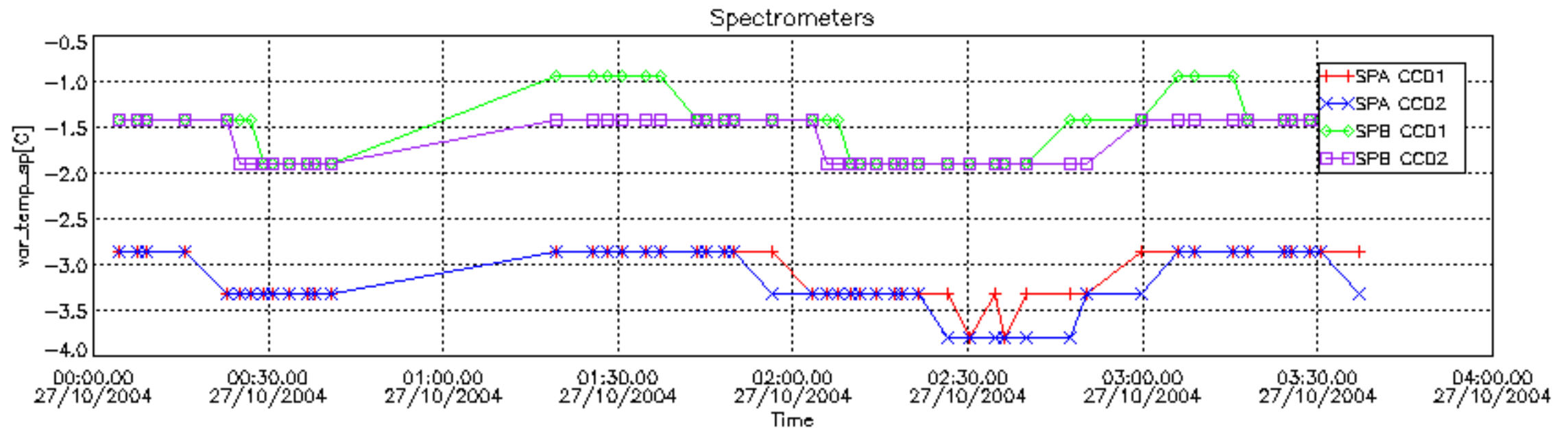
Tangent altitude at which the star is lost

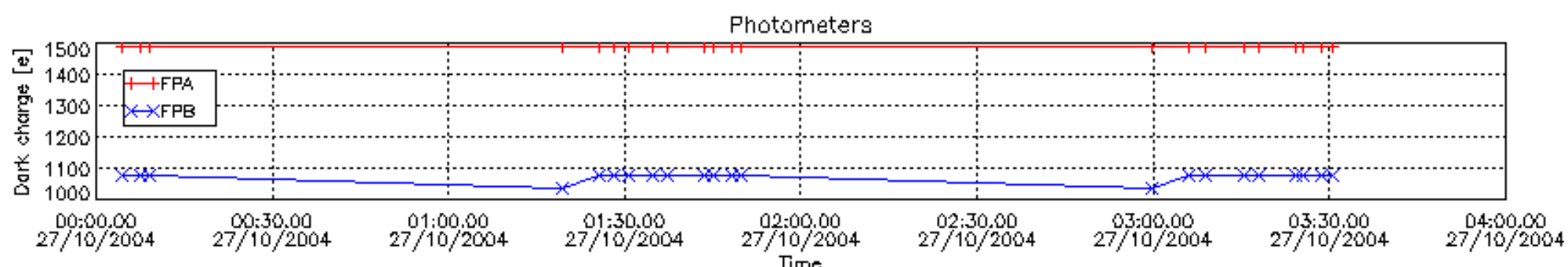
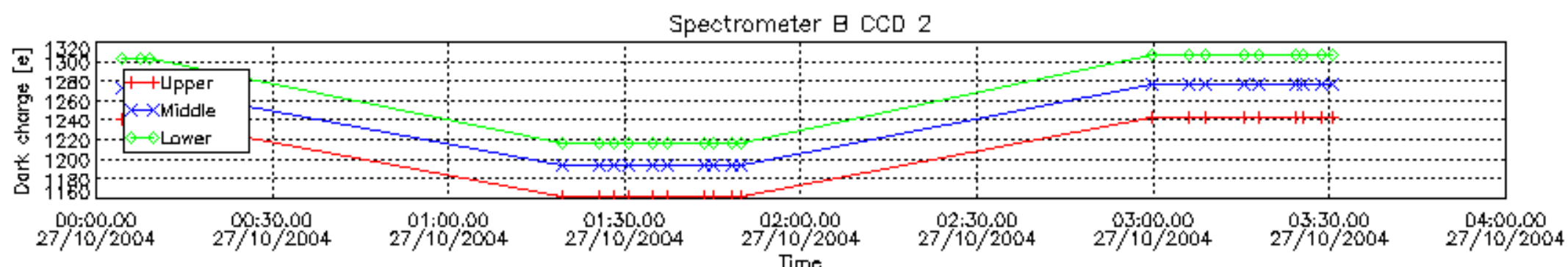
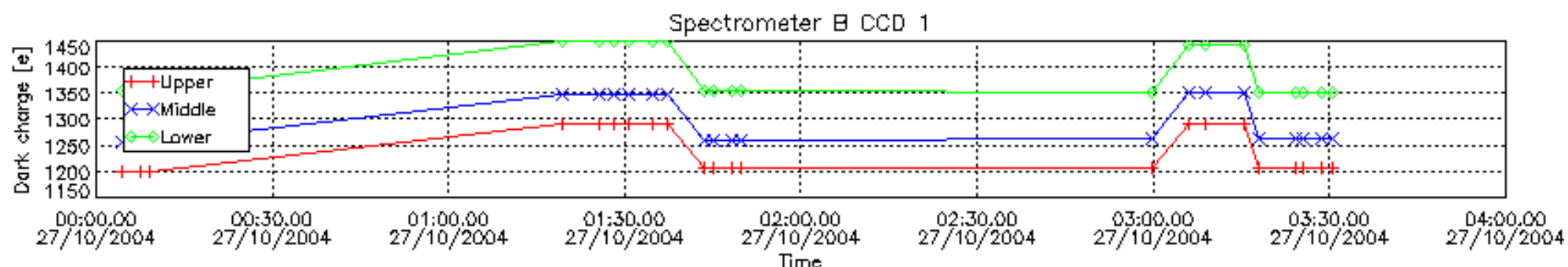
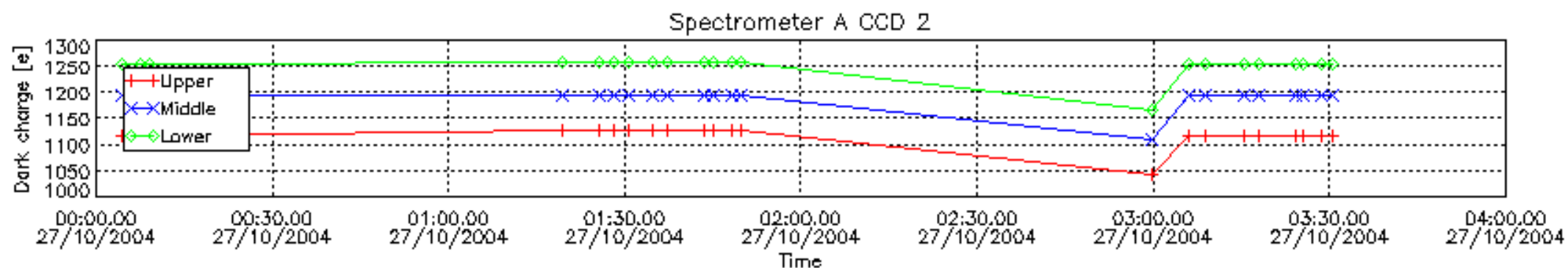
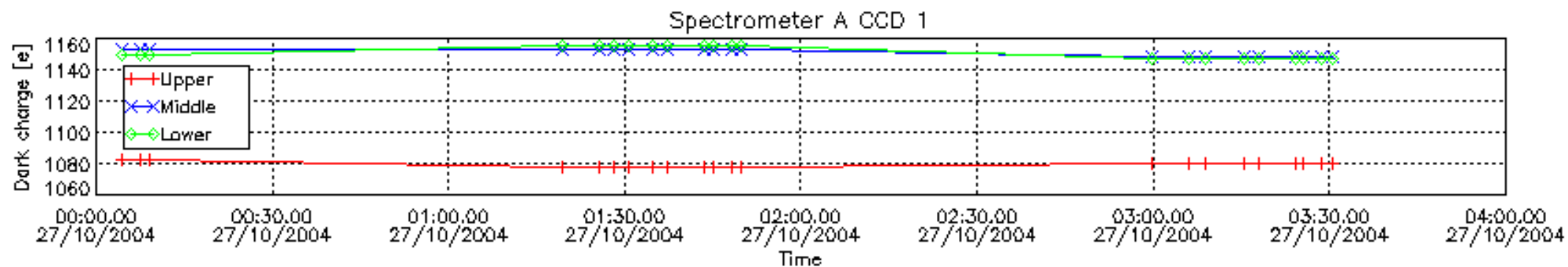


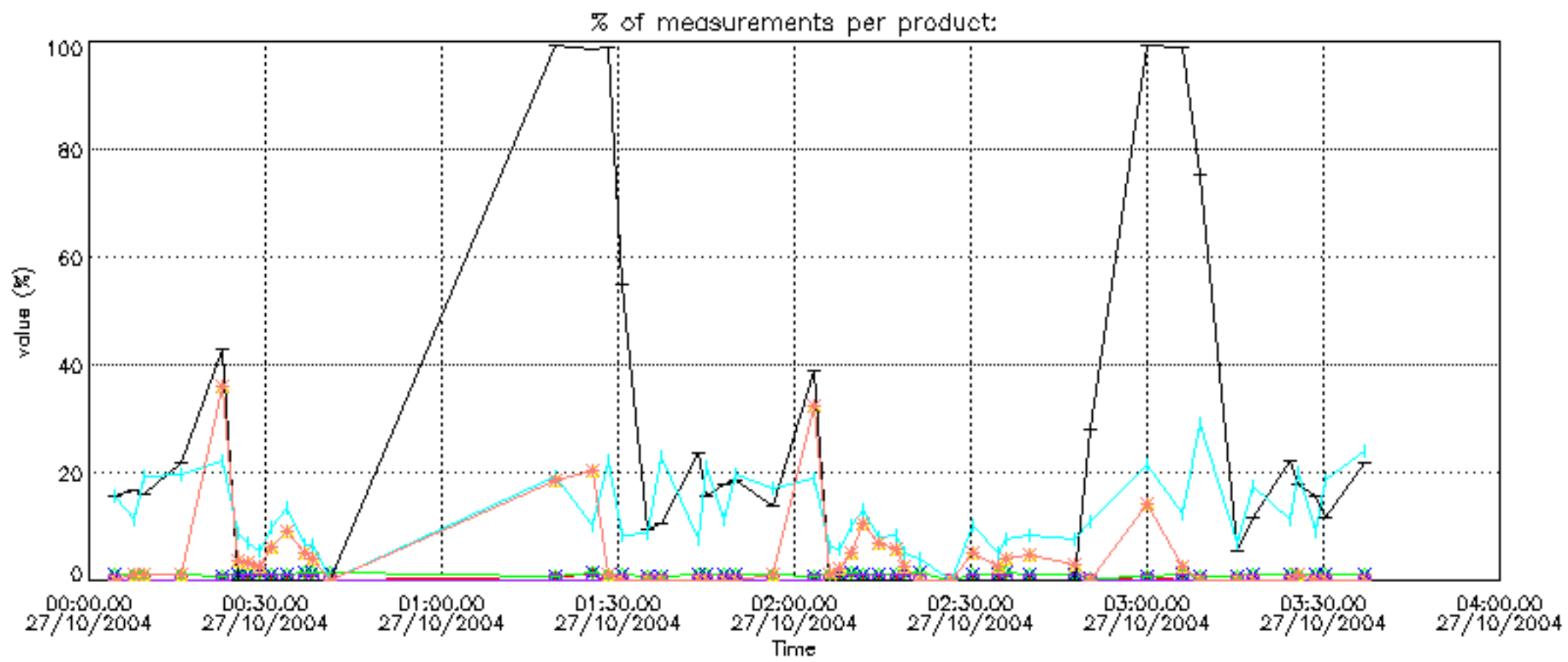
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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

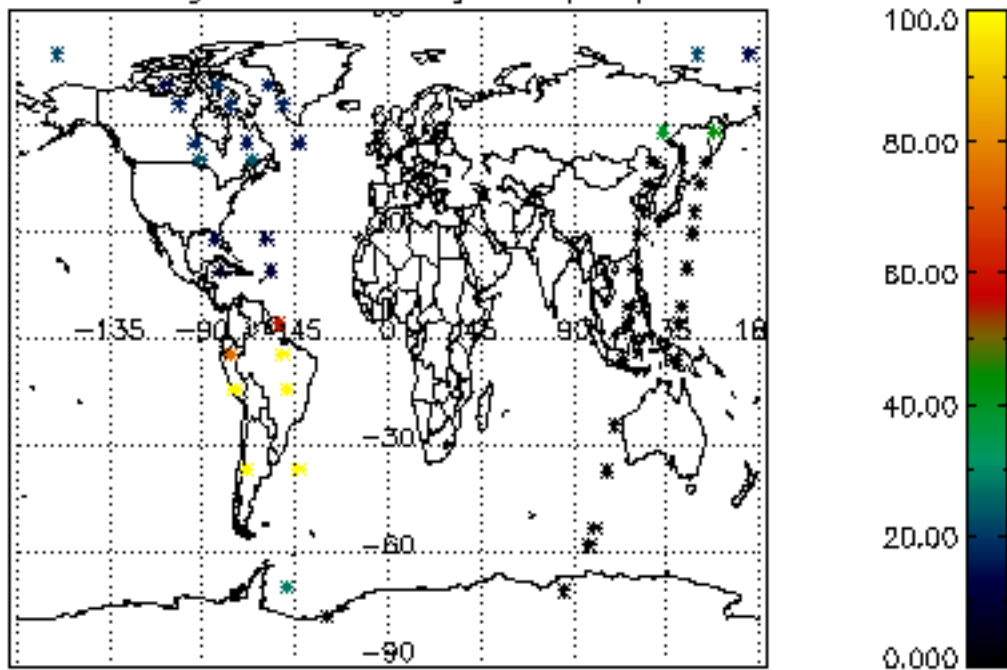
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.4	1446.8	1460.9	1446.5
St. deviation:	5.1650	6.1618	6.1925	7.1278
Maximum:	1509.0	1490.0	1512.0	1500.0
Minimum:	1448.0	1436.0	1453.0	1428.0
Number of data:	27750.	27750.	31450.	31450.



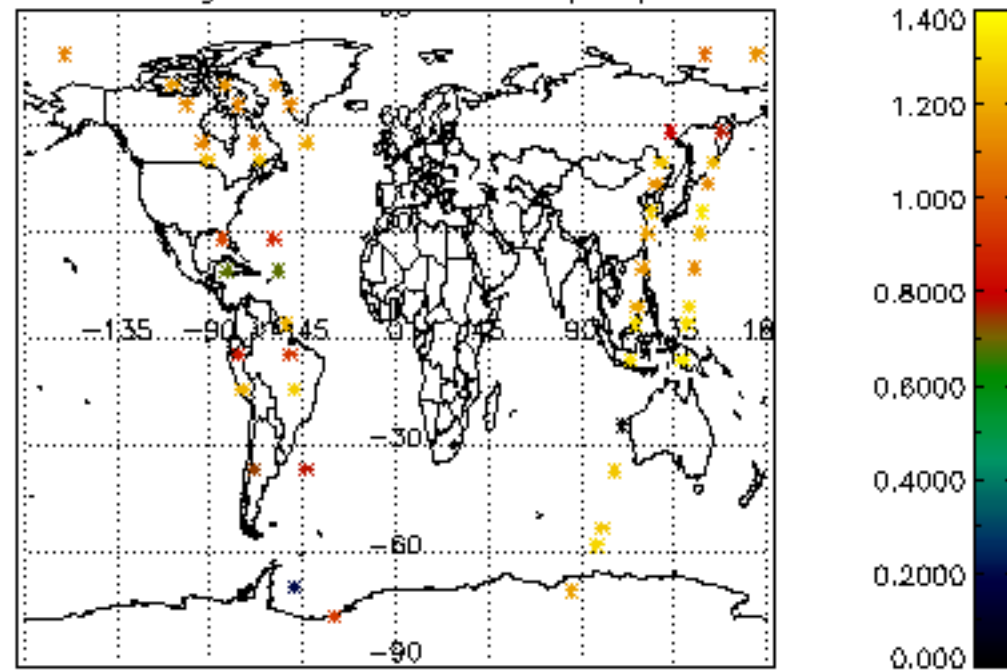




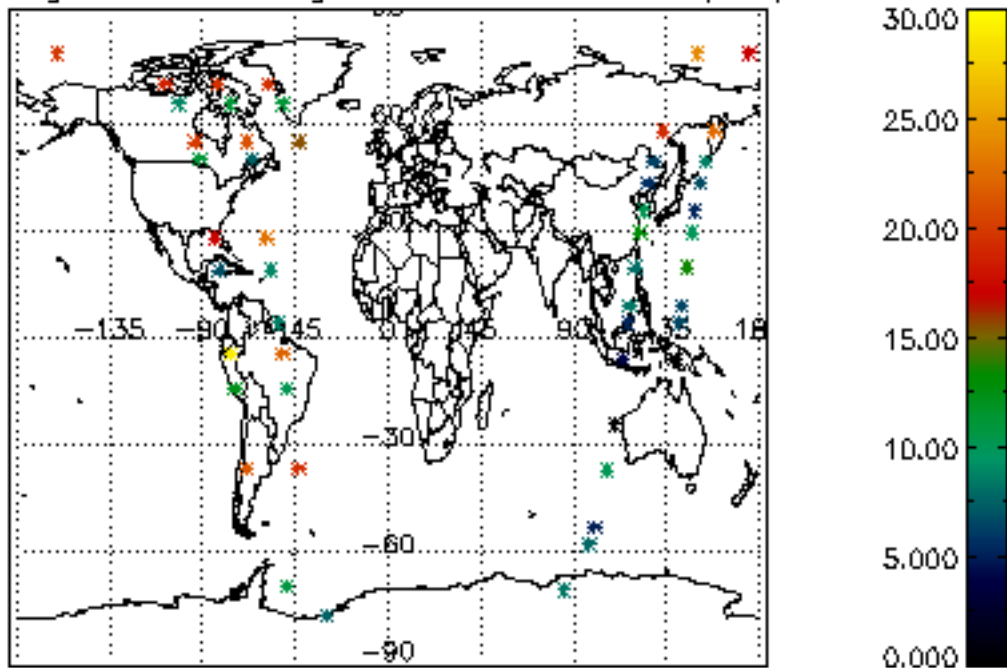
Percentage of cosmic ray hits per profile



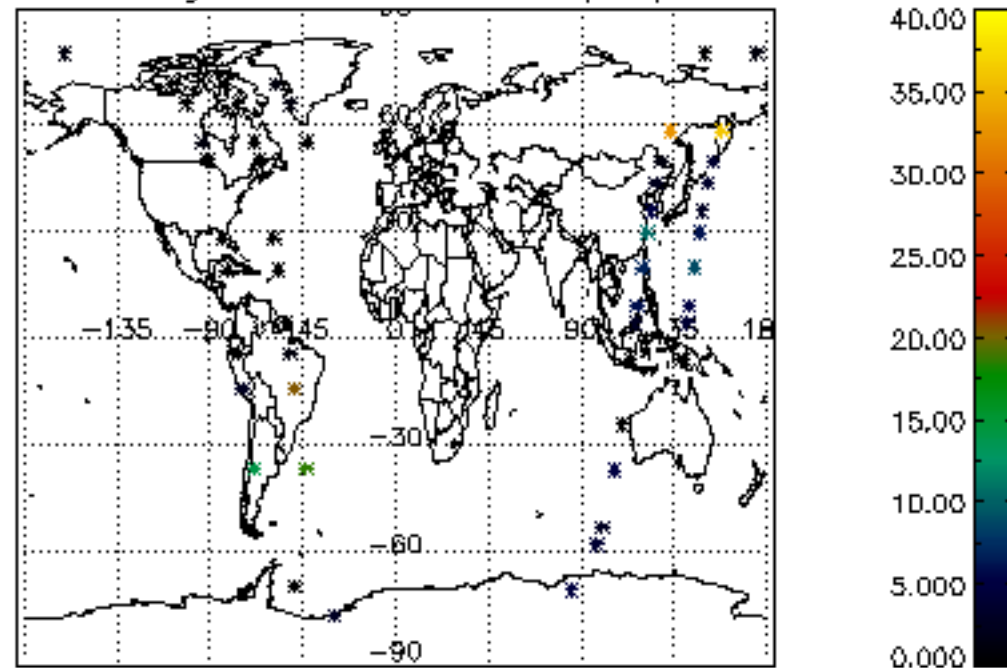
Percentage of datation errors per profile



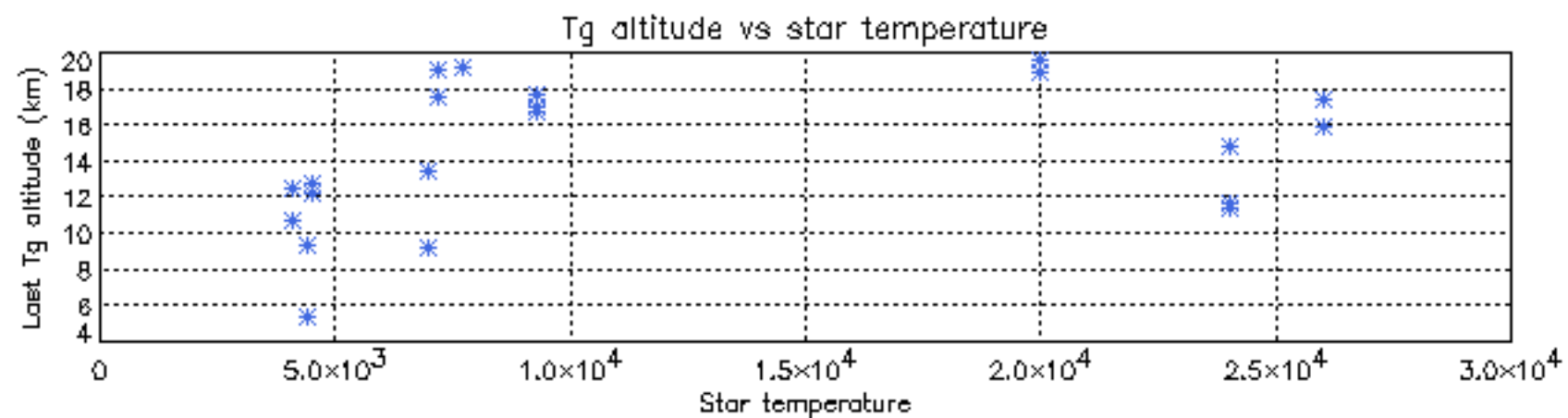
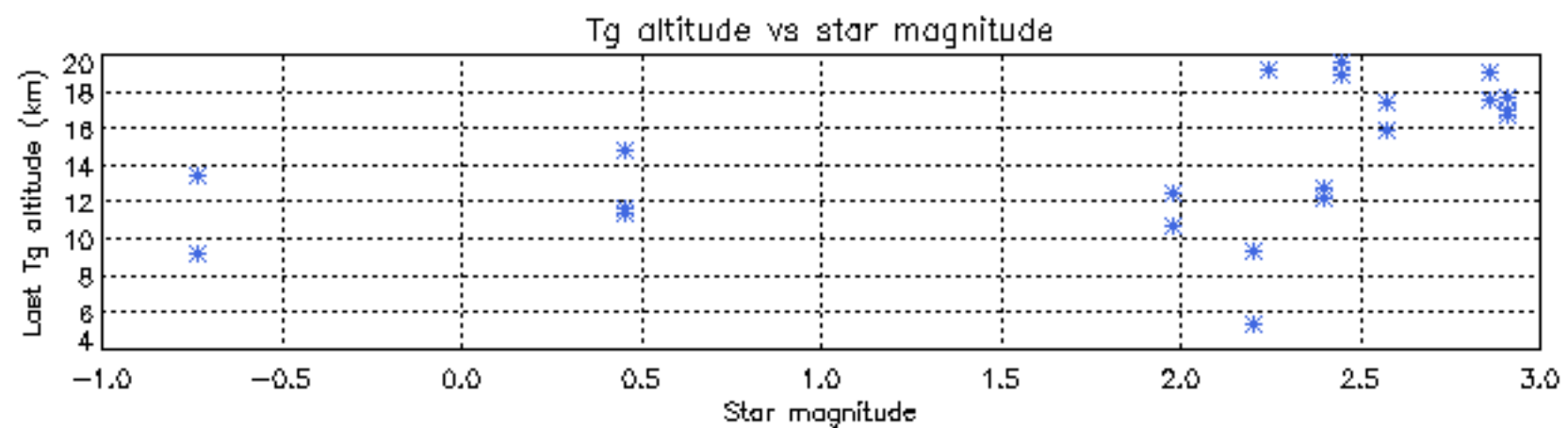
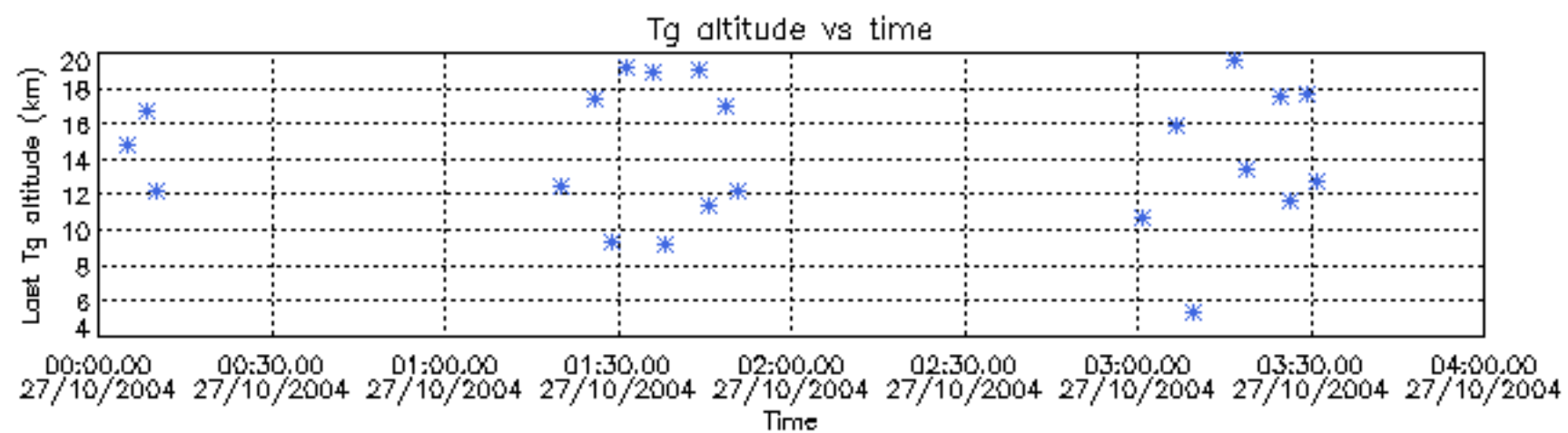
Percentage of star falling outside central band per profile



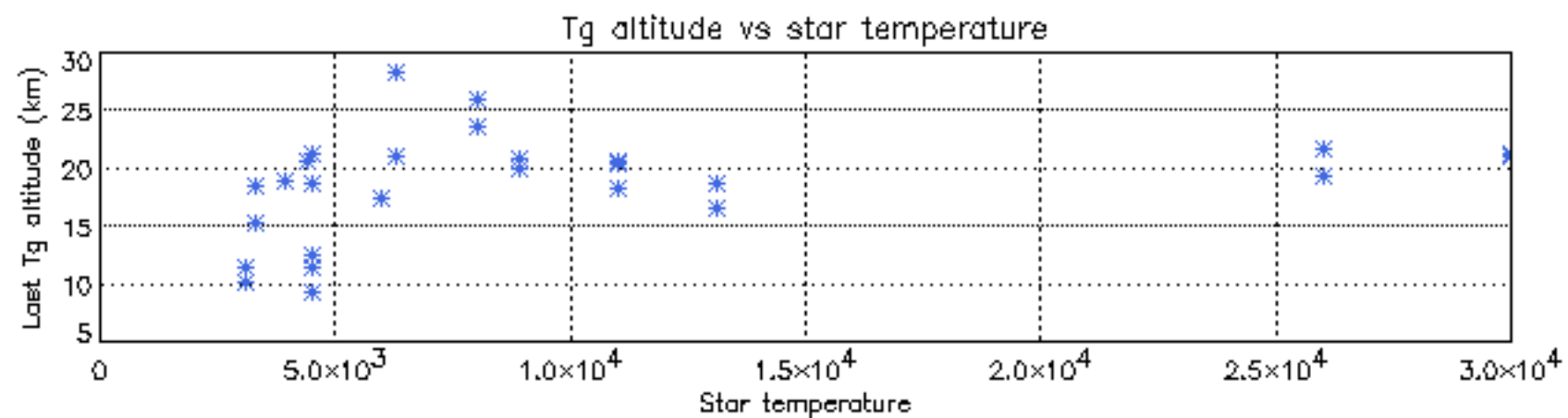
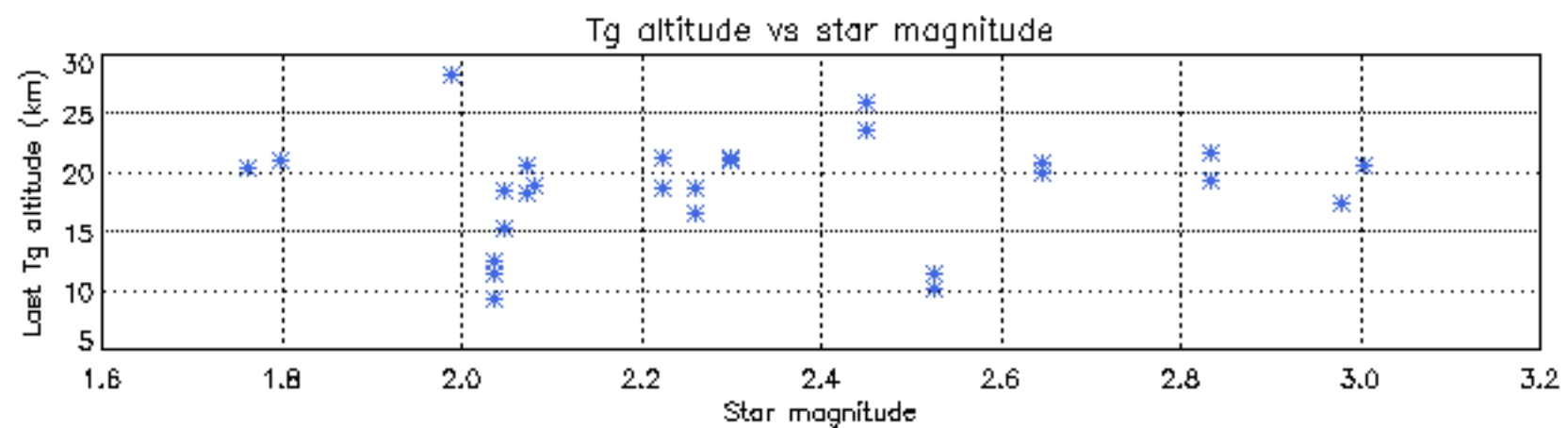
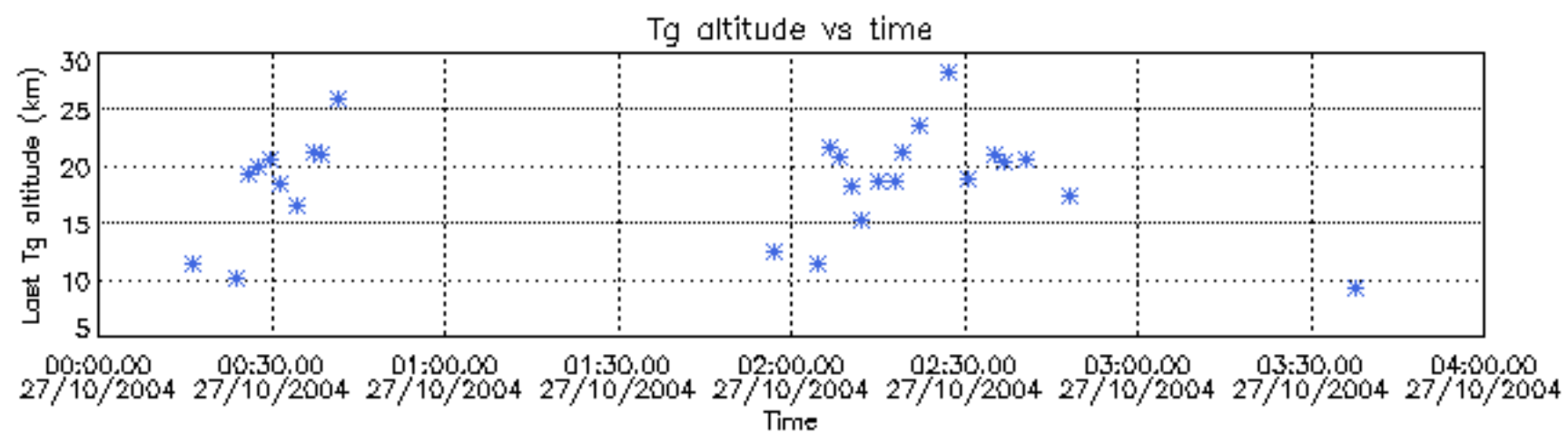
Percentage of saturation errors per profile



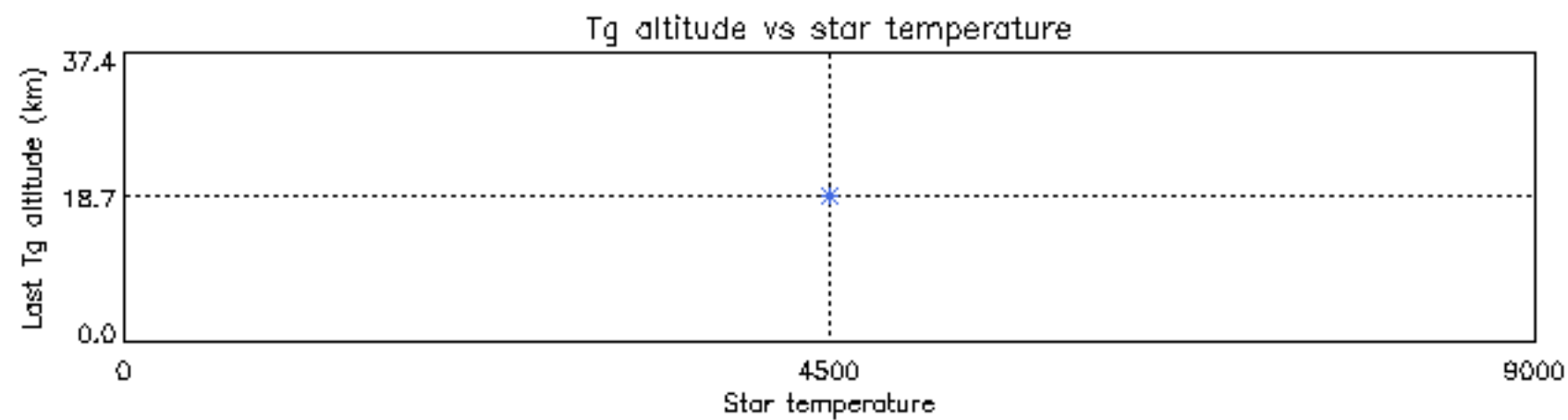
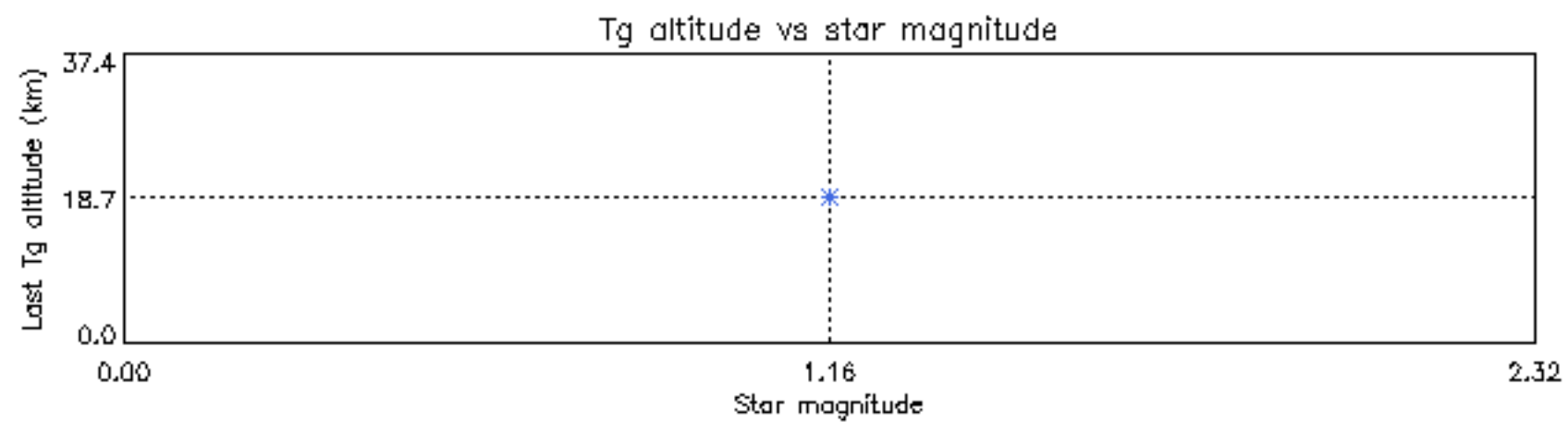
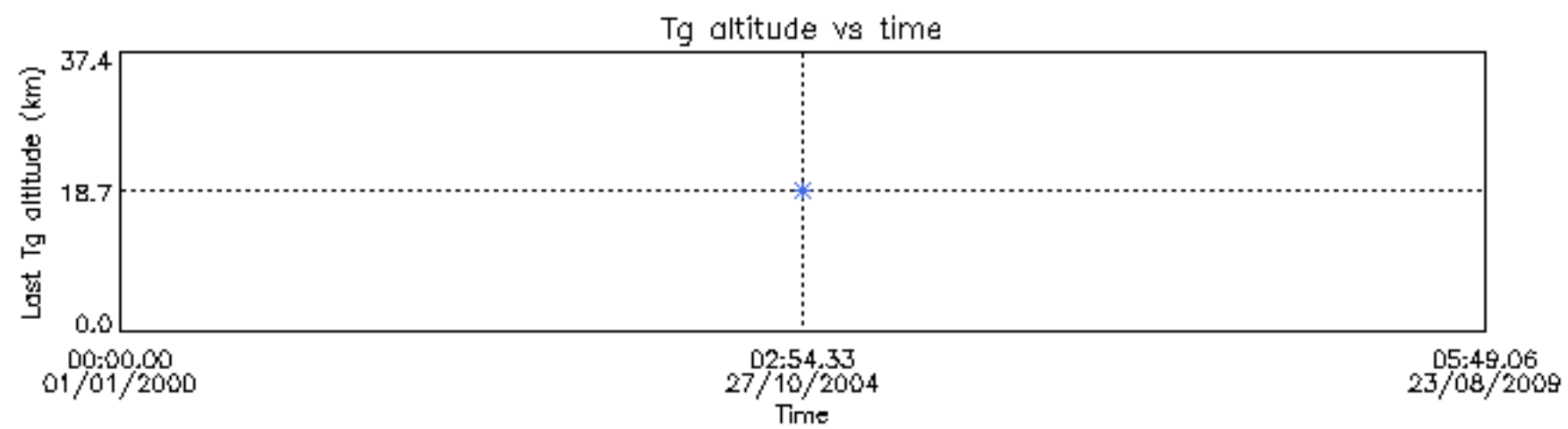
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



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25; 2169.3; 04-OCT-2004 04:09:15; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13571
26; 2385.5; 04-OCT-2004 04:12:51; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13571
27; 2626.4; 04-OCT-2004 04:16:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;13571
28; 2801.1; 04-OCT-2004 04:19:46; Bright; 57.0; 173; 4Bet Tri ; 3.00; 8900;occ; 114; 0;13571
29; 2926.4; 04-OCT-2004 04:21:52; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13571
30; 3012.0; 04-OCT-2004 04:23:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13571
31; 3221.5; 04-OCT-2004 04:26:47; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;13571
32; 3426.1; 04-OCT-2004 04:30:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13571
33; 3563.1; 04-OCT-2004 04:32:28; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13571

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1;	-2127.0;	04-OCT-2004	04:38:14;	Bright;	37.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	75;	0;	13571	
2;	-2036.8;	04-OCT-2004	04:39:44;	Bright;	38.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	76;	0;	13571	
3;	-1841.6;	04-OCT-2004	04:43:00;	Bright;	52.0;	174;	52Psi	UMa	;	3.00;	4400;	occ;	104;	0;	13571	
4;	-1722.5;	04-OCT-2004	04:44:59;	Bright;	105.0;	107;	37The	Aur	;	2.65;	11000;	occ;	210;	0;	13571	
5;	-1516.5;	04-OCT-2004	04:48:25;	Bright;	63.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	126;	0;	13571	
6;	-1188.3;	04-OCT-2004	04:53:53;	Dark	;	126.5;	170;	27Eps	Gem	;	3.00;	9700;	occ;	253;	0;	13571
7;	-816.5;	04-OCT-2004	05:00:05;	Dark	;	78.5;	8;	10Alp	CMi	;	0.40;	6500;	occ;	157;	0;	13571
8;	-682.8;	04-OCT-2004	05:02:19;	Dark	;	255.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	510;	0;	13571
9;	-275.5;	04-OCT-2004	05:09:06;	Dark	;	51.5;	65;	Lam	Vel	;	2.20;	4400;	occ;	103;	0;	13571
10;	-186.6;	04-OCT-2004	05:10:35;	Dark	;	45.5;	70;	Zet	Pup	;	2.25;	39000;	occ;	91;	0;	13571
11;	-79.4;	04-OCT-2004	05:12:22;	Dark	;	40.5;	46;	Del	Vel	;	1.95;	10600;	occ;	81;	0;	13571
12;	-3.6;	04-OCT-2004	05:13:38;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13571
13;	122.6;	04-OCT-2004	05:15:44;	Dark	;	46.5;	161;	Tau	Pup	;	2.93;	4500;	occ;	93;	0;	13572
14;	207.6;	04-OCT-2004	05:17:09;	Dark	;	60.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	120;	0;	13572
15;	379.5;	04-OCT-2004	05:20:01;	Dark	;	66.0;	108;	Alp	Col	;	2.65;	15200;	occ;	132;	0;	13572
16;	608.4;	04-OCT-2004	05:23:50;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	13572
17;	748.9;	04-OCT-2004	05:26:10;	Dark	;	39.5;	143;	Alp	Hyi	;	2.86;	7200;	occ;	79;	0;	13572
18;	836.7;	04-OCT-2004	05:27:38;	Dark	;	52.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	104;	0;	13572
19;	948.2;	04-OCT-2004	05:29:30;	Dark	;	50.0;	157;	The1Eri		;	2.91;	9300;	occ;	100;	0;	13572
20;	1153.6;	04-OCT-2004	05:32:55;	Dark	;	48.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	97;	0;	13572
21;	1428.0;	04-OCT-2004	05:37:29;	Dark	;	43.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	87;	0;	13572
22;	1562.9;	04-OCT-2004	05:39:44;	Dark	;	48.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	97;	0;	13572
23;	1776.6;	04-OCT-2004	05:43:18;	Bright;	200.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	400;	0;	13572	
24;	2170.0;	04-OCT-2004	05:49:51;	Bright;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	13572	
25;	2386.2;	04-OCT-2004	05:53:27;	Bright;	36.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	73;	0;	13572	
26;	2626.5;	04-OCT-2004	05:57:28;	Bright;	44.5;	53;	43Bet	And	;	2.05;	3300;	occ;	89;	0;	13572	
27;	2799.0;	04-OCT-2004	06:00:20;	Bright;	58.0;	173;	4Bet	Tri	;	3.00;	8900;	occ;	116;	0;	13572	
28;	2926.3;	04-OCT-2004	06:02:28;	Bright;	42.0;	68;	18Alp	Cas	;	2.22;	4500;	occ;	84;	0;	13572	
29;	3011.8;	04-OCT-2004	06:03:53;	Bright;	41.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	82;	0;	13572	
30;	3220.5;	04-OCT-2004	06:07:22;	Bright;	52.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	105;	0;	13572	
31;	3426.5;	04-OCT-2004	06:10:48;	Bright;	37.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	75;	0;	13572	
32;	3563.7;	04-OCT-2004	06:13:05;	Bright;	39.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	79;	0;	13572	

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2;	-4269.4;	04-OCT-2004	14:06:08;	Bright;	217.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	434;	0;	13577	
3;	-3866.8;	04-OCT-2004	14:12:50;	Bright;	39.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	78;	0;	13577	
4;	-3650.0;	04-OCT-2004	14:16:27;	Bright;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	13577	
5;	-3415.5;	04-OCT-2004	14:20:21;	Bright;	50.5;	53;	43Bet	And	;	2.05;	3300;	occ;	101;	0;	13577	
6;	-3241.6;	04-OCT-2004	14:23:15;	Bright;	56.0;	173;	4Bet	Tri	;	3.00;	8900;	occ;	112;	0;	13577	
7;	-3112.0;	04-OCT-2004	14:25:25;	Bright;	42.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	85;	0;	13577	
8;	-3026.2;	04-OCT-2004	14:26:51;	Bright;	41.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	82;	0;	13577	
9;	-2819.8;	04-OCT-2004	14:30:17;	Bright;	50.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	101;	0;	13577	
10;	-2610.3;	04-OCT-2004	14:33:47;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	13577	
11;	-2473.6;	04-OCT-2004	14:36:03;	Bright;	38.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	76;	0;	13577	
12;	-2126.6;	04-OCT-2004	14:41:50;	Bright;	36.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	73;	0;	13577	
13;	-2035.9;	04-OCT-2004	14:43:21;	Bright;	35.5;	82;	48Bet	UMa	;	2.37;	10600;	occ;	71;	0;	13577	
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15;	-1724.7;	04-OCT-2004	14:48:32;	Bright;	108.5;	107;	37The	Aur	;	2.65;	11000;	occ;	217;	0;	13577	
16;	-1515.0;	04-OCT-2004	14:52:02;	Bright;	66.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	132;	0;	13577	
17;	-1179.8;	04-OCT-2004	14:57:37;	Dark	;	134.0;	170;	27Eps	Gem	;	3.00;	9700;	occ;	268;	0;	13577
18;	-808.7;	04-OCT-2004	15:03:48;	Dark	;	81.0;	8;	10Alp	CMi	;	0.40;	6500;	occ;	162;	0;	13577
19;	-652.0;	04-OCT-2004	15:06:25;	Dark	;	255.0;	44;	24Gam	Gem	;	1.93;	11000;	occ;	510;	0;	13577
20;	-273.8;	04-OCT-2004	15:12:43;	Dark	;	47.0;	65;	Lam	Vel	;	2.20;	4400;	occ;	94;	0;	13577
21;	-180.7;	04-OCT-2004	15:14:16;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	13577
22;	-63.9;	04-OCT-2004	15:16:13;	Dark	;	90.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	180;	0;	13577
23;	127.3;	04-OCT-2004	15:19:24;	Dark	;	48.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	96;	0;	13578
24;	211.9;	04-OCT-2004	15:20:49;	Dark	;	48.5;	2;	Alp	Car	;	-0.74;	7000;	occ;	97;	0;	13578
25;	389.2;	04-OCT-2004	15:23:46;	Dark	;	65.0;	108;	Alp	Col	;	2.65;	15200;	occ;	130;	0;	13578
26;	608.9;	04-OCT-2004	15:27:26;	Dark	;	38.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	77;	0;	13578
27;	750.8;	04-OCT-2004	15:29:48;	Dark	;	41.0;	143;	Alp	Hyi	;	2.86;	7200;	occ;	82;	0;	13578
28;	838.9;	04-OCT-2004	15:31:16;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	87;	0;	13578
29;	949.8;	04-OCT-2004	15:33:07;	Dark	;	56.0;	157;	The1Eri		;	2.91;	9300;	occ;	112;	0;	13578
30;	1154.5;	04-OCT-2004	15:36:31;	Dark	;	44.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	88;	0;	13578

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1;	-4607.1;	04-OCT-2004	15:41:06;	Dark	;	47.5;	18;	24Alp	PsA	;	1.17;	9700;	occ;	95;	0;	13578
2;	-4473.0;	04-OCT-2004	15:43:20;	Dark	;	50.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	100;	0;	13578
3;	-4271.6;	04-OCT-2004	15:46:41;	Bright;	217.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	434;	0;	13578	


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7;-3242.6; 04-OCT-2004 16:03:50; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13578
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9;-3026.5; 04-OCT-2004 16:07:26; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13578
10;-2820.6; 04-OCT-2004 16:10:52; Bright; 49.5; 160; 23Gam Per ; 2.93; 4700;occ; 99; 0;13578
11;-2610.0; 04-OCT-2004 16:14:23; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13578
12;-2471.6; 04-OCT-2004 16:16:41; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13578
13;-2126.6; 04-OCT-2004 16:22:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13578
14;-2035.9; 04-OCT-2004 16:23:57; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;13578
15;-1841.1; 04-OCT-2004 16:27:12; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13578
16;-1725.4; 04-OCT-2004 16:29:08; Bright; 99.0; 107; 37The Aur ; 2.65; 11000;occ; 198; 0;13578
17;-1514.8; 04-OCT-2004 16:32:38; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13578
18;-1178.8; 04-OCT-2004 16:38:14; Dark ; 138.5; 170; 27Eps Gem ; 3.00; 9700;occ; 277; 0;13578
19; -807.8; 04-OCT-2004 16:44:25; Dark ; 79.5; 8; 10Alp CMi ; 0.40; 6500;occ; 159; 0;13578
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21; -272.8; 04-OCT-2004 16:53:20; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;13578
22; -180.3; 04-OCT-2004 16:54:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13578
23; -62.1; 04-OCT-2004 16:56:51; Dark ; 90.5; 1; 9Alp CMa ; -1.44; 11000;occ; 181; 0;13578
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2; 213.8; 04-OCT-2004 18:42:03; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13580
3; 391.9; 04-OCT-2004 18:45:01; Dark ; 66.5; 108; Alp Col ; 2.65; 15200;occ; 133; 0;13580
4; 608.4; 04-OCT-2004 18:48:37; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13580
5; 751.1; 04-OCT-2004 18:51:00; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13580
6; 839.2; 04-OCT-2004 18:52:28; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13580
7; 953.0; 04-OCT-2004 18:54:22; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13580
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4;-4275.1; 04-OCT-2004 19:07:50; Bright; 216.0; 165; 34Gam Eri ; 2.95; 3200;occ; 432; 0;13580
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7;-3415.6; 04-OCT-2004 19:22:09; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13580
8;-3245.2; 04-OCT-2004 19:25:00; Bright; 57.5; 173; 4Bet Tri ; 3.00; 8900;occ; 115; 0;13580
9;-2823.4; 04-OCT-2004 19:32:02; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13580
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11;-2470.6; 04-OCT-2004 19:37:54; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13580
12;-2127.5; 04-OCT-2004 19:43:37; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13580
13;-2035.6; 04-OCT-2004 19:45:09; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;13580
14;-1840.8; 04-OCT-2004 19:48:24; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13580
15;-1726.5; 04-OCT-2004 19:50:18; Bright; 104.0; 107; 37The Aur ; 2.65; 11000;occ; 208; 0;13580
16;-1514.6; 04-OCT-2004 19:53:50; Bright; 64.0; 24; 66Alp Gem ; 1.58; 10200;occ; 128; 0;13580
17;-1176.0; 04-OCT-2004 19:59:29; Dark ; 144.5; 170; 27Eps Gem ; 3.00; 9700;occ; 289; 0;13580
18; -804.9; 04-OCT-2004 20:05:40; Dark ; 93.0; 8; 10Alp CMi ; 0.40; 6500;occ; 186; 0;13580
19; -635.5; 04-OCT-2004 20:08:29; Dark ; 255.0; 44; 24Gam Gem ; 1.93; 11000;occ; 510; 0;13580
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22; 3.4; 04-OCT-2004 20:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13581
23; 214.5; 04-OCT-2004 20:22:39; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;13581
24; 393.4; 04-OCT-2004 20:25:38; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13581
25; 608.9; 04-OCT-2004 20:29:14; Dark ; 40.0; 135; Bet Hyi ; 2.82; 5800;occ; 80; 0;13581
26; 752.0; 04-OCT-2004 20:31:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13581
27; 840.2; 04-OCT-2004 20:33:05; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;13581
28; 953.6; 04-OCT-2004 20:34:59; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;13581
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3; -271.4; 04-OCT-2004 21:55:09; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;13581
4; -179.3; 04-OCT-2004 21:56:42; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;13581
5; 4.3; 04-OCT-2004 21:59:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13582
6; 215.3; 04-OCT-2004 22:03:16; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13582
7; 395.0; 04-OCT-2004 22:06:16; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;13582
8; 609.3; 04-OCT-2004 22:09:50; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13582
9; 752.4; 04-OCT-2004 22:12:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13582
10; 840.6; 04-OCT-2004 22:13:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13582

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1;	-759.6;	05-OCT-2004	01:08:13;	Dark	;	94.0;	8;	10Alp CMI	;	0.40;	6500;occ;	188;	84;	13583
2;	-617.0;	05-OCT-2004	01:10:36;	Dark	;	255.0;	44;	24Gam Gem	;	1.93;	11000;occ;	510;	0;	13583
3;	-271.3;	05-OCT-2004	01:16:21;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	13583
4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
5;	5.9;	05-OCT-2004	01:20:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13584
6;	216.6;	05-OCT-2004	01:24:29;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	13584
7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
9;	752.5;	05-OCT-2004	01:33:25;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13584
10;	841.3;	05-OCT-2004	01:34:54;	Dark	;	44.5;	9;	Alp Eri	;	0.45;	24000;occ;	89;	0;	13584
11;	955.7;	05-OCT-2004	01:36:48;	Dark	;	53.0;	157;	The1Eri	;	2.91;	9300;occ;	106;	0;	13584
12;	1155.4;	05-OCT-2004	01:40:08;	Dark	;	45.5;	84;	Alp Phe	;	2.40;	4500;occ;	91;	0;	13584
13;	1429.9;	05-OCT-2004	01:44:43;	Dark	;	45.0;	18;	24Alp PsA	;	1.17;	9700;occ;	90;	0;	13584
14;	1563.3;	05-OCT-2004	01:46:56;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13584
15;	1754.2;	05-OCT-2004	01:50:07;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13584	
16;	2170.0;	05-OCT-2004	01:57:03;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13584	
17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
19;	2786.6;	05-OCT-2004	02:07:19;	Bright;	55.0;	173;	4Bet Tri	;	3.00;	8900;occ;	110;	0;	13584	
20;	3209.3;	05-OCT-2004	02:14:22;	Bright;	52.0;	160;	23Gam Per	;	2.93;	4700;occ;	104;	0;	13584	
21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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1;	-2125.5;	05-OCT-2004	07:27:51;	Bright;	38.0;	36;	50Alp UMA	;	1.80;	6300;occ;	76;	0;	13587	
2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
3;	-1839.3;	05-OCT-2004	07:32:37;	Bright;	52.0;	174;	52Psi UMA	;	3.00;	4400;occ;	104;	0;	13587	
4;	-1730.1;	05-OCT-2004	07:34:26;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13587	
5;	-1416.6;	05-OCT-2004	07:39:40;	Bright;	74.0;	17;	78Bet Gem	;	1.16;	4500;occ;	148;	0;	13587	
6;	-1166.7;	05-OCT-2004	07:43:50;	Dark	;	133.5;	170;	27Eps Gem	;	3.00;	9700;occ;	267;	0;	13587
7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
10;	-174.8;	05-OCT-2004	08:00:22;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	13587
11;	9.0;	05-OCT-2004	08:03:26;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13588
12;	220.3;	05-OCT-2004	08:06:57;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	13588
13;	404.1;	05-OCT-2004	08:10:01;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13588
14;	609.9;	05-OCT-2004	08:13:26;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13588
15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
18;	1157.8;	05-OCT-2004	08:22:34;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13588
19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
20;	1565.3;	05-OCT-2004	08:29:22;	Dark	;	19.5;	52;	16Bet Cet	;	2.04;	4500;occ;	39;	0;	13588

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1;	-4470.6;	05-OCT-2004	08:29:22;	Dark	;	52.0;	52;	16Bet Cet	;	2.04;	4500;occ;	104;	0;	13588
2;	-4288.3;	05-OCT-2004	08:32:24;	Bright;	216.0;	165;	34Gam Eri	;	2.95;	3200;occ;	432;	0;	13588	
3;	-3864.0;	05-OCT-2004	08:39:28;	Bright;	36.5;	90;	54Alp Peg	;	2.49;	11000;occ;	73;	0;	13588	
4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
6;	-3254.1;	05-OCT-2004	08:49:38;	Bright;	55.5;	173;	4Bet Tri	;	3.00;	8900;occ;	111;	0;	13588	
7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
10;	-2610.5;	05-OCT-2004	09:00:22;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	13588	
11;	-2468.3;	05-OCT-2004	09:02:44;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	13588	
12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
13;	-2034.8;	05-OCT-2004	09:09:58;	Bright;	36.5;	82;	48Bet UMA	;	2.37;	10600;occ;	73;	0;	13588	
14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
15;	-1730.5;	05-OCT-2004	09:15:02;	Bright;	106.0;	107;	37The Aur	;	2.65;	11000;occ;	212;	0;	13588	
16;	-1415.9;	05-OCT-2004	09:20:17;	Bright;	65.5;	17;	78Bet Gem	;	1.16;	4500;occ;	131;	0;	13588	
17;	-1165.1;	05-OCT-2004	09:24:27;	Dark	;	135.0;	170;	27Eps Gem	;	3.00;	9700;occ;	270;	0;	13588
18;	-794.9;	05-OCT-2004	09:30:38;	Dark	;	89.5;	8;	10Alp CMI	;	0.40;	6500;occ;	179;	0;	13588
19;	-392.0;	05-OCT-2004	09:37:20;	Dark	;	53.0;	132;	15Rho Pup	;	2.80;	6900;occ;	106;	0;	13588
20;	-267.7;	05-OCT-2004	09:39:25;	Dark	;	50.0;	65;	Lam Vel	;	2.20;	4400;occ;	100;	0;	13588
21;	-174.0;	05-OCT-2004	09:40:58;	Dark	;	44.5;	70;	Zet Pup	;	2.25;	39000;occ;	89;	0;	13588
22;	9.9;	05-OCT-2004	09:44:02;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13589
23;	220.8;	05-OCT-2004	09:47:33;	Dark	;	59.0;	2;	Alp Car	;	-0.74;	7000;occ;	118;	0;	13589
24;	405.0;	05-OCT-2004	09:50:37;	Dark	;	65.0;	108;	Alp Col	;	2.65;	15200;occ;	130;	0;	13589

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25; 610.0; 05-OCT-2004 09:54:02; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13589
26; 754.9; 05-OCT-2004 09:56:27; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13589
27; 843.0; 05-OCT-2004 09:57:55; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;13589
28; 958.9; 05-OCT-2004 09:59:51; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13589
29; 1157.9; 05-OCT-2004 10:03:10; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13589
30; 1430.7; 05-OCT-2004 10:07:43; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;13589
31; 1565.0; 05-OCT-2004 10:09:57; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;13589
32; 1746.3; 05-OCT-2004 10:12:59; Bright; 20.5; 165; 34Gam Eri ; 2.95; 3200;occ; 41; 0;13589
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2;-3864.6; 05-OCT-2004 10:20:04; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13589
3;-3649.2; 05-OCT-2004 10:23:39; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13589
4;-3420.1; 05-OCT-2004 10:27:28; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;13589
5;-3254.7; 05-OCT-2004 10:30:14; Bright; 56.5; 173; 4Bet Tri ; 3.00; 8900;occ; 113; 0;13589
6;-3115.1; 05-OCT-2004 10:32:33; Bright; 41.5; 68; 18Alp Cas ; 2.22; 4500;occ; 83; 0;13589
7;-3024.0; 05-OCT-2004 10:34:04; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13589
8;-2831.0; 05-OCT-2004 10:37:17; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;13589
9;-2611.2; 05-OCT-2004 10:40:57; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;13589
10;-2470.5; 05-OCT-2004 10:43:18; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13589
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12;-2034.4; 05-OCT-2004 10:50:34; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13589
13;-1838.9; 05-OCT-2004 10:53:49; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13589
14;-1730.8; 05-OCT-2004 10:55:37; Bright; 107.5; 107; 37The Aur ; 2.65; 11000;occ; 215; 0;13589
15;-1415.3; 05-OCT-2004 11:00:53; Bright; 85.0; 17; 78Bet Gem ; 1.16; 4500;occ; 170; 0;13589
16;-1163.5; 05-OCT-2004 11:05:05; Dark ; 143.0; 170; 27Eps Gem ; 3.00; 9700;occ; 286; 0;13589
17; -792.8; 05-OCT-2004 11:11:16; Dark ; 99.0; 8; 10Alp CMi ; 0.40; 6500;occ; 198; 0;13589
18; -392.0; 05-OCT-2004 11:17:56; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;13589
19; -267.8; 05-OCT-2004 11:20:00; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;13589
20; -173.9; 05-OCT-2004 11:21:34; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;13589
21; 10.7; 05-OCT-2004 11:24:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13590
22; 221.2; 05-OCT-2004 11:28:10; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;13590
23; 407.0; 05-OCT-2004 11:31:15; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;13590
24; 610.2; 05-OCT-2004 11:34:39; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13590
25; 755.5; 05-OCT-2004 11:37:04; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13590
26; 843.4; 05-OCT-2004 11:38:32; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;13590
27; 960.5; 05-OCT-2004 11:40:29; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13590
28; 1158.0; 05-OCT-2004 11:43:46; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13590
29; 1430.6; 05-OCT-2004 11:48:19; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13590
30; 1564.8; 05-OCT-2004 11:50:33; Dark ; 24.5; 52; 16Bet Cet ; 2.04; 4500;occ; 49; 0;13590
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2;-4291.1; 05-OCT-2004 11:53:33; Dark ; 215.0; 165; 34Gam Eri ; 2.95; 3200;occ; 430; 0;13590
3;-3864.2; 05-OCT-2004 12:00:40; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;13590
4;-3649.2; 05-OCT-2004 12:04:15; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13590
5;-3420.3; 05-OCT-2004 12:08:04; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;13590
6;-3255.5; 05-OCT-2004 12:10:49; Bright; 55.0; 173; 4Bet Tri ; 3.00; 8900;occ; 110; 0;13590
7;-3115.4; 05-OCT-2004 12:13:09; Bright; 42.0; 68; 18Alp Cas ; 2.22; 4500;occ; 84; 0;13590
8;-3023.6; 05-OCT-2004 12:14:41; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13590
9;-2831.9; 05-OCT-2004 12:17:52; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;13590
10;-2610.0; 05-OCT-2004 12:21:34; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13590
11;-2470.2; 05-OCT-2004 12:23:54; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13590
12;-2125.8; 05-OCT-2004 12:29:38; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;13590
13;-2034.4; 05-OCT-2004 12:31:10; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13590
14;-1839.5; 05-OCT-2004 12:34:25; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;13590
15;-1731.3; 05-OCT-2004 12:36:13; Bright; 112.5; 107; 37The Aur ; 2.65; 11000;occ; 225; 0;13590
16;-1513.0; 05-OCT-2004 12:39:51; Bright; 65.5; 24; 66Alp Gem ; 1.58; 10200;occ; 131; 0;13590
17;-1162.1; 05-OCT-2004 12:45:42; Dark ; 141.0; 170; 27Eps Gem ; 3.00; 9700;occ; 282; 0;13590
18; -791.7; 05-OCT-2004 12:51:52; Dark ; 93.5; 8; 10Alp CMi ; 0.40; 6500;occ; 187; 0;13590
19; -390.4; 05-OCT-2004 12:58:34; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;13590
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22; 11.5; 05-OCT-2004 13:05:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13591
23; 221.7; 05-OCT-2004 13:08:46; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;13591
24; 408.7; 05-OCT-2004 13:11:53; Dark ; 67.0; 108; Alp Col ; 2.65; 15200;occ; 134; 0;13591
25; 610.1; 05-OCT-2004 13:15:14; Dark ; 40.5; 135; Bet Hyi ; 2.82; 5800;occ; 81; 0;13591
26; 755.5; 05-OCT-2004 13:17:40; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13591
27; 843.8; 05-OCT-2004 13:19:08; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13591
28; 960.8; 05-OCT-2004 13:21:05; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;13591

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2;-4471.5; 05-OCT-2004 13:31:09; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;13591
3;-4292.4; 05-OCT-2004 13:34:08; Dark ; 215.0; 165; 34Gam Eri ; 2.95; 3200;occ; 430; 0;13591
4;-3864.6; 05-OCT-2004 13:41:16; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13591
5;-3649.6; 05-OCT-2004 13:44:51; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13591
6;-3420.5; 05-OCT-2004 13:48:40; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13591
7;-3256.6; 05-OCT-2004 13:51:24; Bright; 54.5; 173; 4Bet Tri ; 3.00; 8900;occ; 109; 0;13591
8;-3116.4; 05-OCT-2004 13:53:44; Bright; 42.0; 68; 18Alp Cas ; 2.22; 4500;occ; 84; 0;13591
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19;	-762.2;	15-OCT-2004	17:39:50;	Dark	;	59.5;	48;	30Alp Hya	;	1.98;	4100;occ;	119;	0;	13736
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22;	140.4;	15-OCT-2004	17:54:52;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13737
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19;	-1205.8;	15-OCT-2004	19:13:02;	Bright	;	57.0;	22;	32Alp Leo	;	1.36;	15200;occ;	114;	0;	13737
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5;	141.7;	16-OCT-2004	00:37:17;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13741
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 27; 4672.0; 25-OCT-2004 00:29:27; Bright; 51.5; 166; 17Eps Leo ; 2.98; 6000;occ; 103; 0;13869
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