

# GOMOS Daily Report 26-OCT-2009

## Level 0 and Level 1 products

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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	28OCT2009 04:30:54
Data source version	GOMOS/5.00L03
Start time of products	26OCT2009 01:14:35
Stop time of products	26OCT2009 06:16:22
Store outputs in DB	Yes
Nb of level 1b prods	7
Nb of prods with errors	1

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

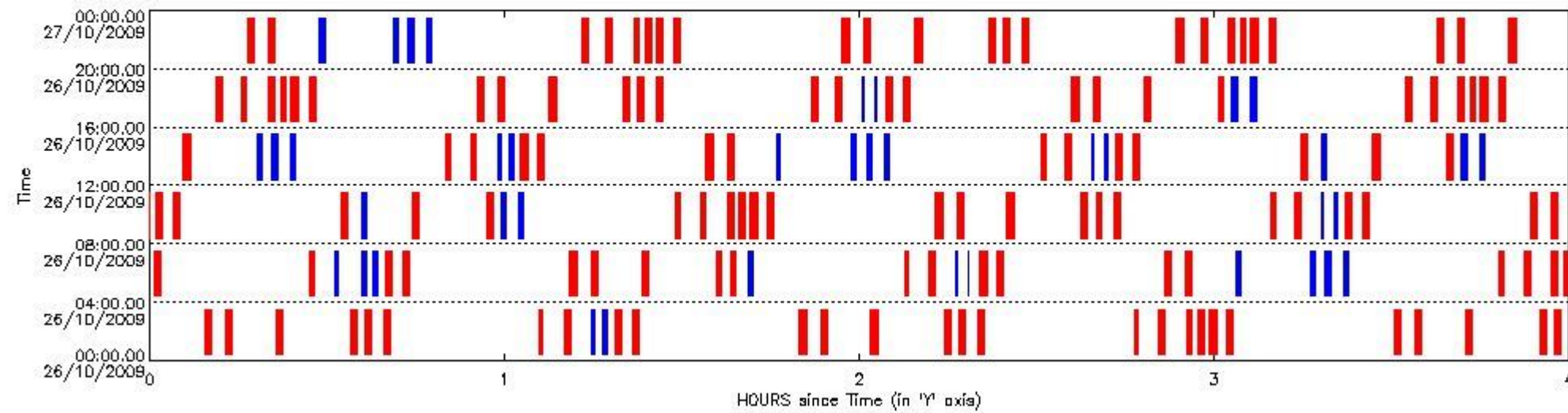
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



### 2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
26-OCT-2009 00:09:11	17EpsLeo	166	40021
26-OCT-2009 00:12:44	32AlpLeo	22	40021
26-OCT-2009 00:21:13	30AlpHya	48	40021
26-OCT-2009 00:33:50	Gam2Vel	34	40022
26-OCT-2009 00:36:17	DSA1055	0	40022
26-OCT-2009 00:39:26	AlpCar	2	40022
26-OCT-2009 01:05:53	92AlpCet	94	40022
26-OCT-2009 01:10:02	6BetAri	105	40022
26-OCT-2009 01:18:34	26BetPer	79	40022
26-OCT-2009 01:21:31	23GamPer	160	40022
26-OCT-2009 01:49:47	17EpsLeo	166	40022
26-OCT-2009 01:53:21	32AlpLeo	22	40022
26-OCT-2009 02:01:50	30AlpHya	48	40022
26-OCT-2009 02:14:27	Gam2Vel	34	40023
26-OCT-2009 02:16:54	DSA1055	0	40023

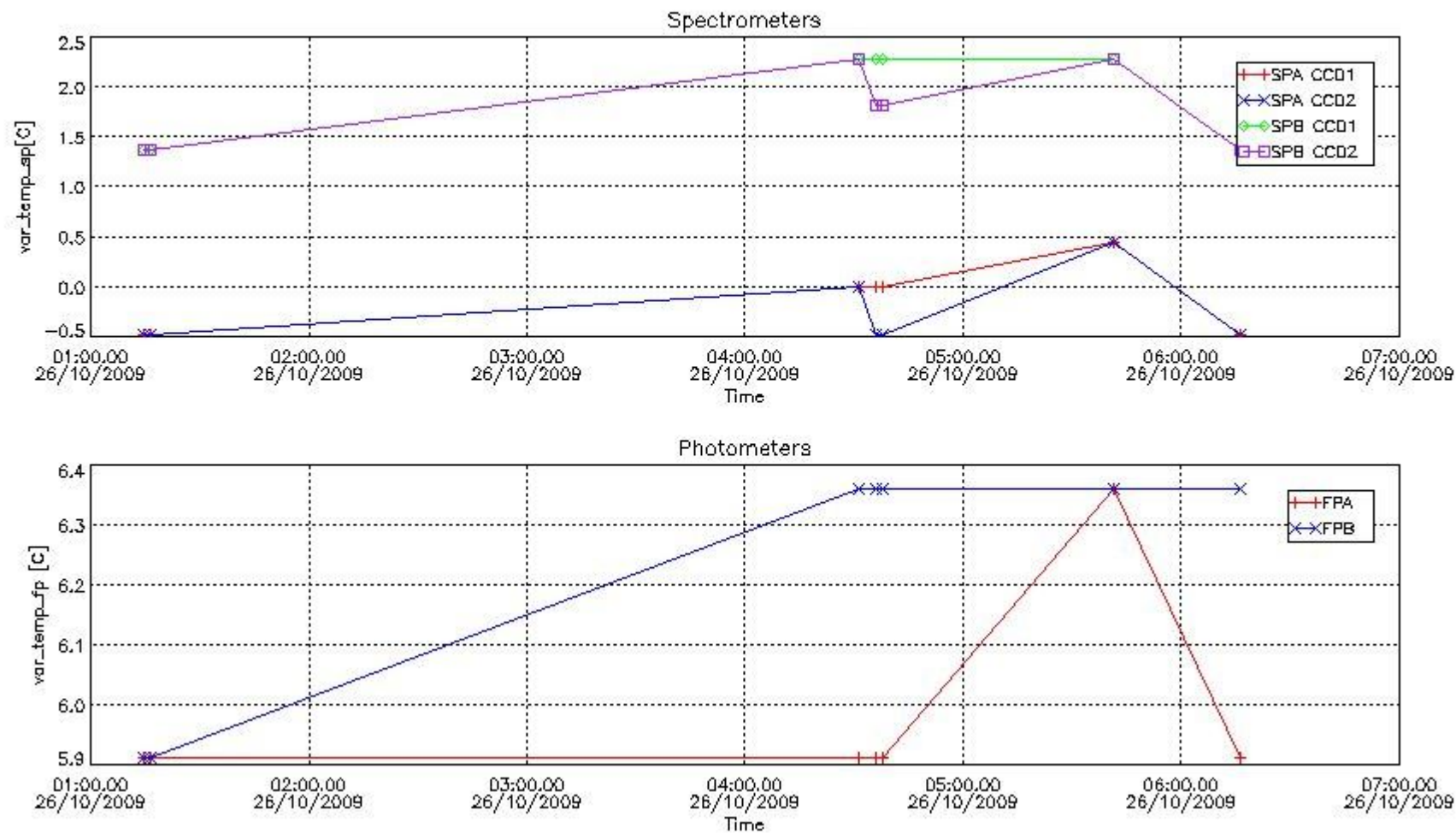
26-OCT-2009 02:20:03	AlpCar	2	40023
26-OCT-2009 02:46:28	92AlpCet	94	40023
26-OCT-2009 02:50:37	6BetAri	105	40023
26-OCT-2009 02:55:15	4BetTri	173	40023
26-OCT-2009 02:57:15	57Gam1And	73	40023
26-OCT-2009 02:59:09	26BetPer	79	40023
26-OCT-2009 03:02:07	23GamPer	160	40023
26-OCT-2009 03:30:23	17EpsLeo	166	40023
26-OCT-2009 03:33:57	32AlpLeo	22	40023
26-OCT-2009 03:42:27	30AlpHya	48	40023
26-OCT-2009 03:55:04	Gam2Vel	34	40024
26-OCT-2009 03:57:31	DSA1055	0	40024
26-OCT-2009 04:00:40	AlpCar	2	40024
26-OCT-2009 04:27:04	92AlpCet	94	40024
26-OCT-2009 04:39:44	26BetPer	79	40024
26-OCT-2009 04:42:42	23GamPer	160	40024
26-OCT-2009 05:11:00	17EpsLeo	166	40024
26-OCT-2009 05:14:33	32AlpLeo	22	40024
26-OCT-2009 05:23:04	30AlpHya	48	40024
26-OCT-2009 05:35:40	Gam2Vel	34	40025
26-OCT-2009 05:38:07	DSA1055	0	40025
26-OCT-2009 06:07:39	92AlpCet	94	40025
26-OCT-2009 06:11:49	6BetAri	105	40025
26-OCT-2009 06:20:20	26BetPer	79	40025
26-OCT-2009 06:23:17	23GamPer	160	40025
26-OCT-2009 06:51:36	17EpsLeo	166	40025
26-OCT-2009 06:55:10	32AlpLeo	22	40025
26-OCT-2009 07:48:14	92AlpCet	94	40026
26-OCT-2009 07:52:24	6BetAri	105	40026
26-OCT-2009 07:57:02	4BetTri	173	40026
26-OCT-2009 07:59:02	57Gam1And	73	40026
26-OCT-2009 08:00:55	26BetPer	79	40026
26-OCT-2009 08:03:53	23GamPer	160	40026
26-OCT-2009 08:32:12	17EpsLeo	166	40026
26-OCT-2009 08:44:18	30AlpHya	48	40026
26-OCT-2009 08:56:54	Gam2Vel	34	40027
26-OCT-2009 09:28:50	92AlpCet	94	40027
26-OCT-2009 09:33:00	6BetAri	105	40027
26-OCT-2009 09:37:37	4BetTri	173	40027
26-OCT-2009 09:39:37	57Gam1And	73	40027
26-OCT-2009 09:41:30	26BetPer	79	40027
26-OCT-2009 09:44:28	23GamPer	160	40027
26-OCT-2009 10:12:48	17EpsLeo	166	40027
26-OCT-2009 10:16:23	32AlpLeo	22	40027
26-OCT-2009 10:24:55	30AlpHya	48	40027
26-OCT-2009 10:37:31	Gam2Vel	34	40028
26-OCT-2009 10:39:58	DSA1055	0	40028
26-OCT-2009 10:43:07	AlpCar	2	40028
26-OCT-2009 11:09:25	92AlpCet	94	40028
26-OCT-2009 11:13:35	6BetAri	105	40028
26-OCT-2009 11:22:05	26BetPer	79	40028
26-OCT-2009 11:25:03	23GamPer	160	40028
26-OCT-2009 11:53:25	17EpsLeo	166	40028
26-OCT-2009 11:56:59	32AlpLeo	22	40028
26-OCT-2009 12:05:32	30AlpHya	48	40028
26-OCT-2009 12:50:01	92AlpCet	94	40029
26-OCT-2009 12:54:11	6BetAri	105	40029
26-OCT-2009 13:02:40	26BetPer	79	40029
26-OCT-2009 13:05:39	23GamPer	160	40029

26-OCT-2009 13:34:01	17EpsLeo	166	40029
26-OCT-2009 13:37:36	32AlpLeo	22	40029
26-OCT-2009 14:30:36	92AlpCet	94	40030
26-OCT-2009 14:34:47	6BetAri	105	40030
26-OCT-2009 14:43:15	26BetPer	79	40030
26-OCT-2009 14:46:14	23GamPer	160	40030
26-OCT-2009 15:14:37	17EpsLeo	166	40030
26-OCT-2009 15:26:46	30AlpHya	48	40030
26-OCT-2009 15:39:21	Gam2Vel	34	40031
26-OCT-2009 16:11:12	92AlpCet	94	40031
26-OCT-2009 16:15:22	6BetAri	105	40031
26-OCT-2009 16:19:59	4BetTri	173	40031
26-OCT-2009 16:21:59	57Gam1And	73	40031
26-OCT-2009 16:23:50	26BetPer	79	40031
26-OCT-2009 16:26:49	23GamPer	160	40031
26-OCT-2009 16:55:13	17EpsLeo	166	40031
26-OCT-2009 16:58:48	32AlpLeo	22	40031
26-OCT-2009 17:07:23	30AlpHya	48	40031
26-OCT-2009 17:19:58	Gam2Vel	34	40032
26-OCT-2009 17:22:26	DSA1055	0	40032
26-OCT-2009 17:25:34	AlpCar	2	40032
26-OCT-2009 17:51:47	92AlpCet	94	40032
26-OCT-2009 17:55:58	6BetAri	105	40032
26-OCT-2009 18:04:26	26BetPer	79	40032
26-OCT-2009 18:07:25	23GamPer	160	40032
26-OCT-2009 18:35:50	17EpsLeo	166	40032
26-OCT-2009 18:39:25	32AlpLeo	22	40032
26-OCT-2009 18:48:00	30AlpHya	48	40032
26-OCT-2009 19:00:35	Gam2Vel	34	40033
26-OCT-2009 19:32:23	92AlpCet	94	40033
26-OCT-2009 19:36:34	6BetAri	105	40033
26-OCT-2009 19:41:10	4BetTri	173	40033
26-OCT-2009 19:43:11	57Gam1And	73	40033
26-OCT-2009 19:45:01	26BetPer	79	40033
26-OCT-2009 19:48:00	23GamPer	160	40033
26-OCT-2009 20:16:26	17EpsLeo	166	40033
26-OCT-2009 20:20:01	32AlpLeo	22	40033
26-OCT-2009 21:12:58	92AlpCet	94	40034
26-OCT-2009 21:17:09	6BetAri	105	40034
26-OCT-2009 21:21:46	4BetTri	173	40034
26-OCT-2009 21:23:46	57Gam1And	73	40034
26-OCT-2009 21:25:36	26BetPer	79	40034
26-OCT-2009 21:28:35	23GamPer	160	40034
26-OCT-2009 21:57:02	17EpsLeo	166	40034
26-OCT-2009 22:00:38	32AlpLeo	22	40034
26-OCT-2009 22:09:14	30AlpHya	48	40034
26-OCT-2009 22:21:48	Gam2Vel	34	40035
26-OCT-2009 22:24:16	DSA1055	0	40035
26-OCT-2009 22:27:24	AlpCar	2	40035
26-OCT-2009 22:53:34	92AlpCet	94	40035
26-OCT-2009 22:57:45	6BetAri	105	40035
26-OCT-2009 23:02:21	4BetTri	173	40035
26-OCT-2009 23:04:22	57Gam1And	73	40035
26-OCT-2009 23:06:11	26BetPer	79	40035
26-OCT-2009 23:09:11	23GamPer	160	40035
26-OCT-2009 23:37:39	17EpsLeo	166	40035
26-OCT-2009 23:41:14	32AlpLeo	22	40035
26-OCT-2009 23:49:51	30AlpHya	48	40035

## 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091026_011435_000000412083_00389_40022_1946.N1	26-OCT-2009 01:14:35	Bright	41.000	173	4Bet Tri	3.0040	8900.0	82	40022	No
2	GOM_TRA_1PNPDE20091026_011635_000000412083_00389_40022_1947.N1	26-OCT-2009 01:16:35	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40022	No
3	GOM_TRA_1PNPDE20091026_043108_000000412083_00391_40024_1962.N1	26-OCT-2009 04:31:08	Bright	41.000	105	6Bet Ari	2.6450	8900.0	82	40024	No
4	GOM_TRA_1PNPDE20091026_043546_000000422083_00391_40024_1963.N1	26-OCT-2009 04:35:46	Bright	42.000	173	4Bet Tri	3.0040	8900.0	84	40024	No
5	GOM_TRA_1PNPDE20091026_043746_000000432083_00391_40024_1964.N1	26-OCT-2009 04:37:46	Bright	42.500	73	57Gam1And	2.2600	13100.	85	40024	No
6	GOM_TRA_1PNPDE20091026_054112_000000492083_00392_40025_1969.N1	26-OCT-2009 05:41:12	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40025	No
7	GOM_TRA_1PNPDE20091026_061622_000000022083_00392_40025_1970.N1	26-OCT-2009 06:16:22	Straylight	2.0000	173	4Bet Tri	3.0040	8900.0	4	40025	Yes

## 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.

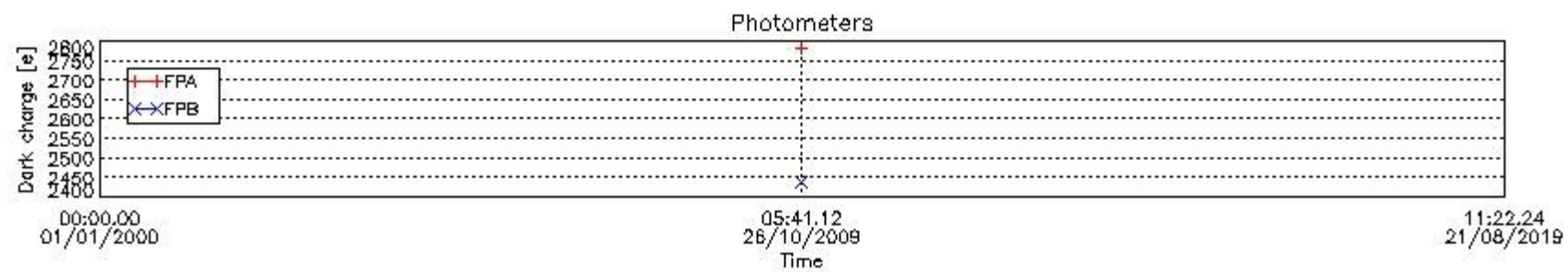
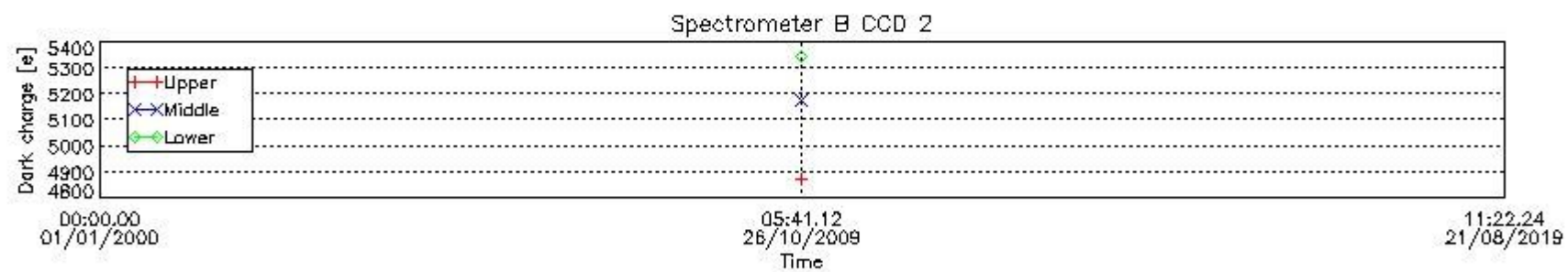
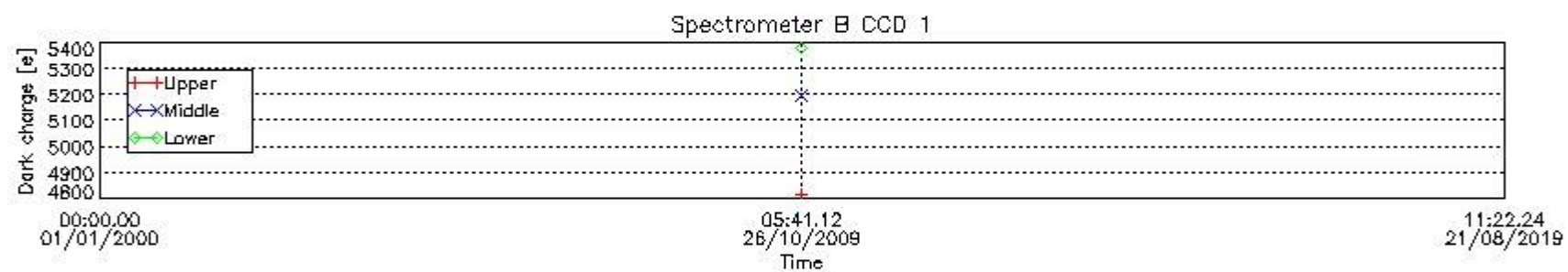
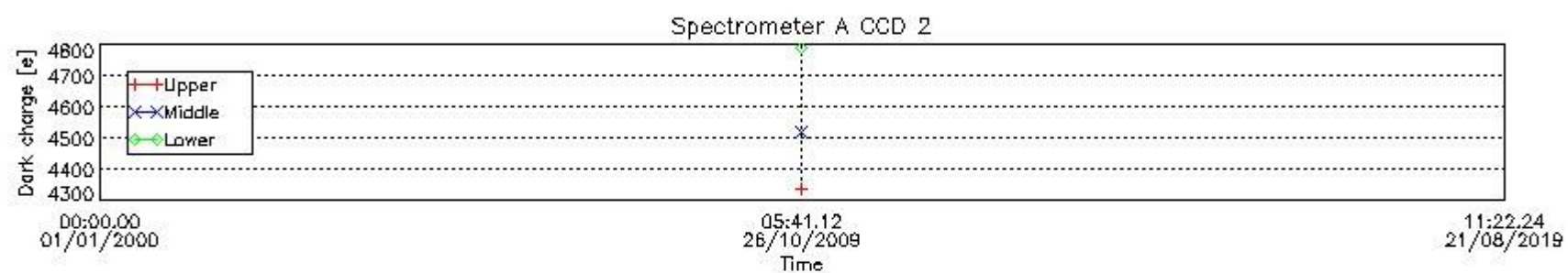
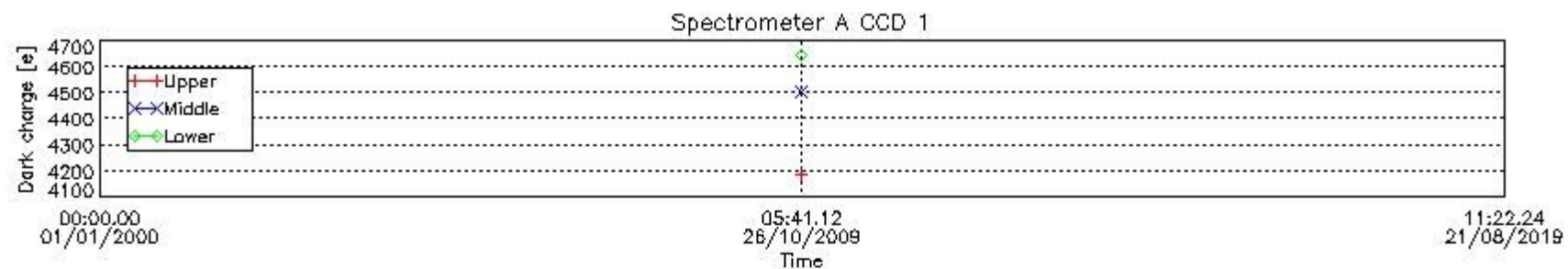
### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
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GOM_TRA_1PNPDE20091026_011435_000000412083_00389_40022_1946.N1	DC map used
GOM_TRA_1PNPDE20091026_011635_000000412083_00389_40022_1947.N1	DC map used
GOM_TRA_1PNPDE20091026_043108_000000412083_00391_40024_1962.N1	DC map used
GOM_TRA_1PNPDE20091026_043546_000000422083_00391_40024_1963.N1	DC map used
GOM_TRA_1PNPDE20091026_043746_000000432083_00391_40024_1964.N1	DC map used
GOM_TRA_1PNPDE20091026_054112_000000492083_00392_40025_1969.N1	DC map used
GOM_TRA_1PNPDE20091026_061622_000000022083_00392_40025_1970.N1	DC map used

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



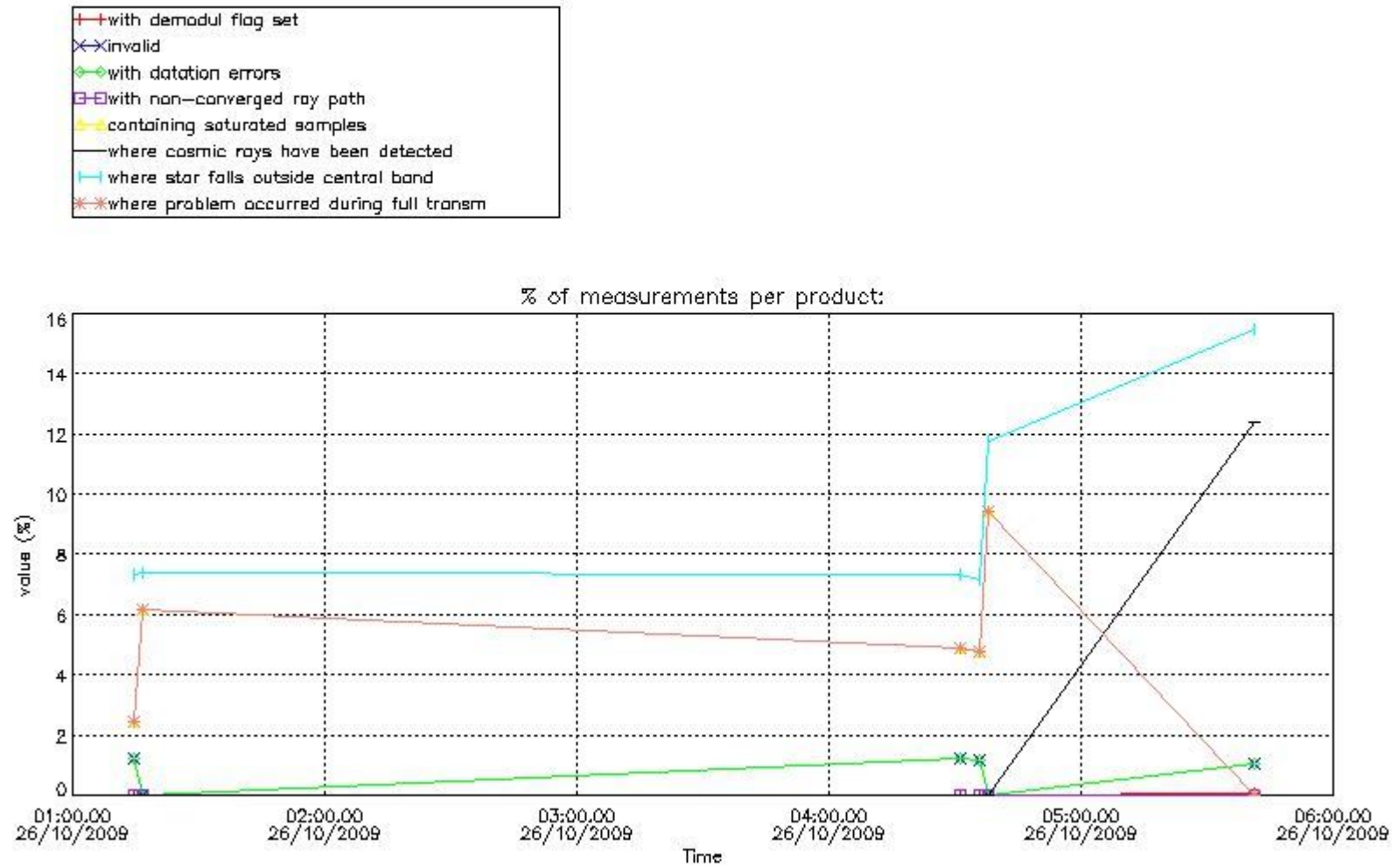
## 5. Demodulation flag and quality information monitoring

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.

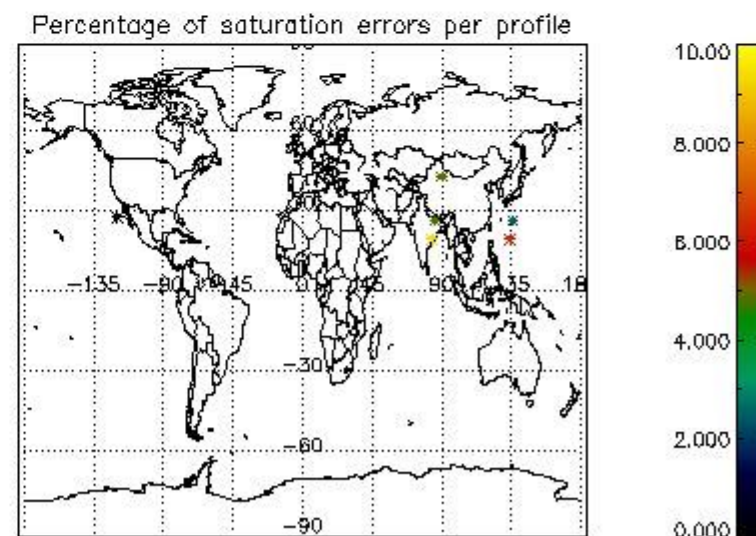
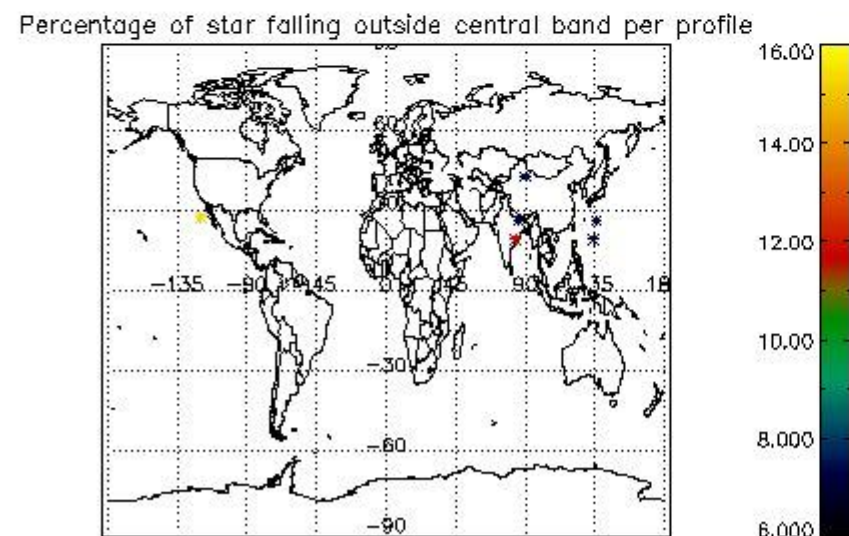
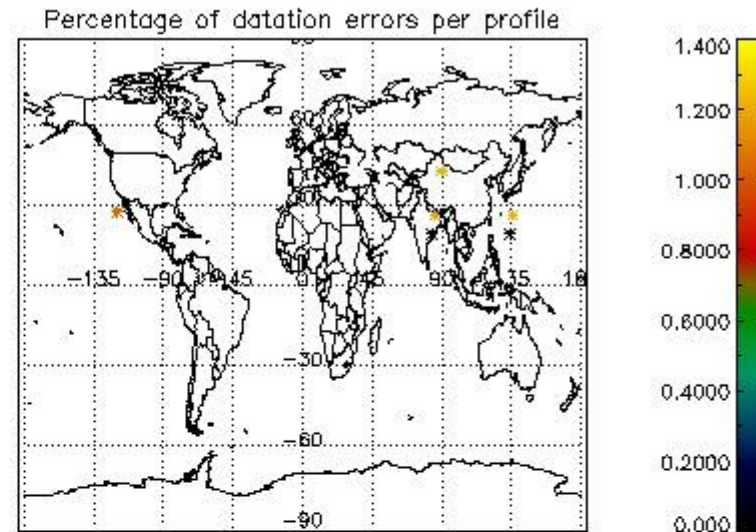
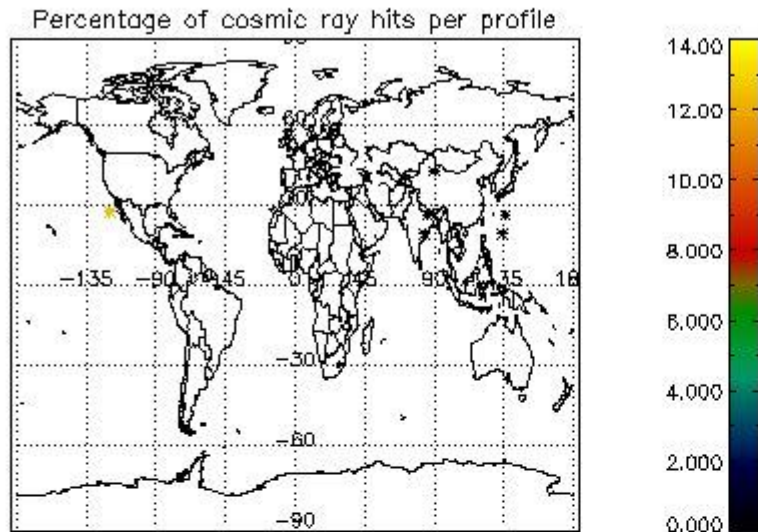
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)

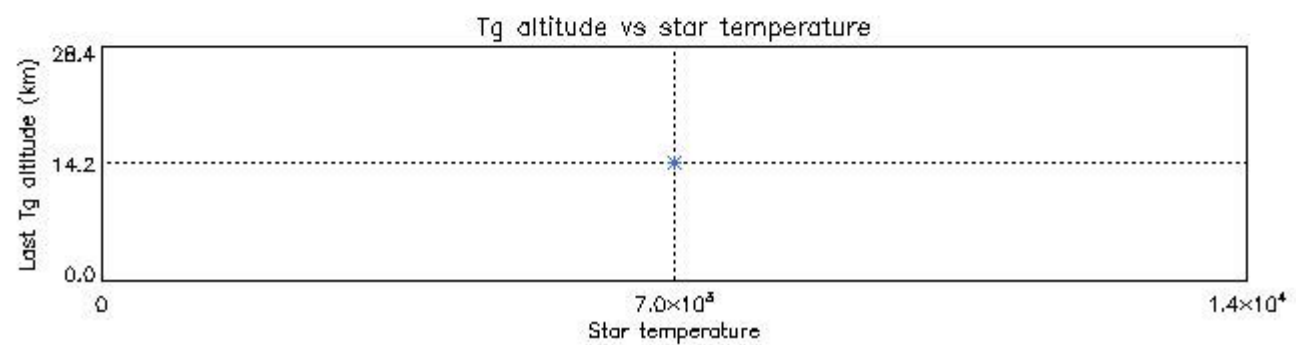
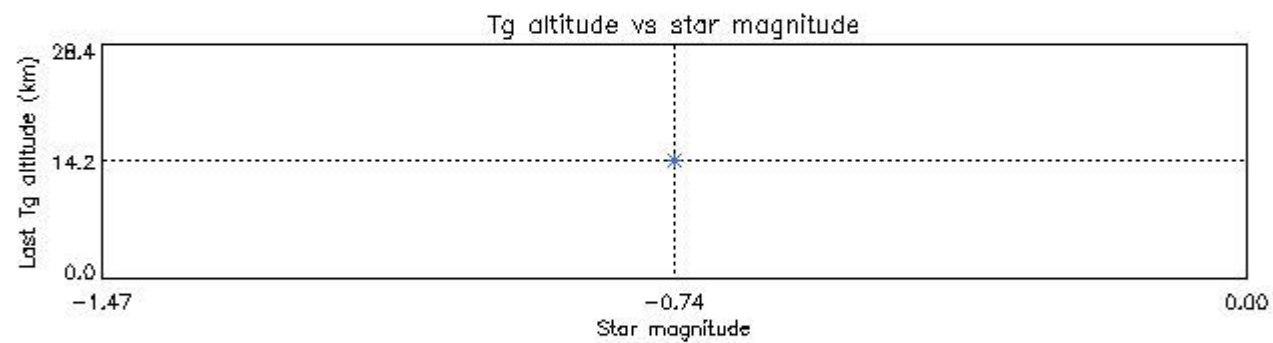
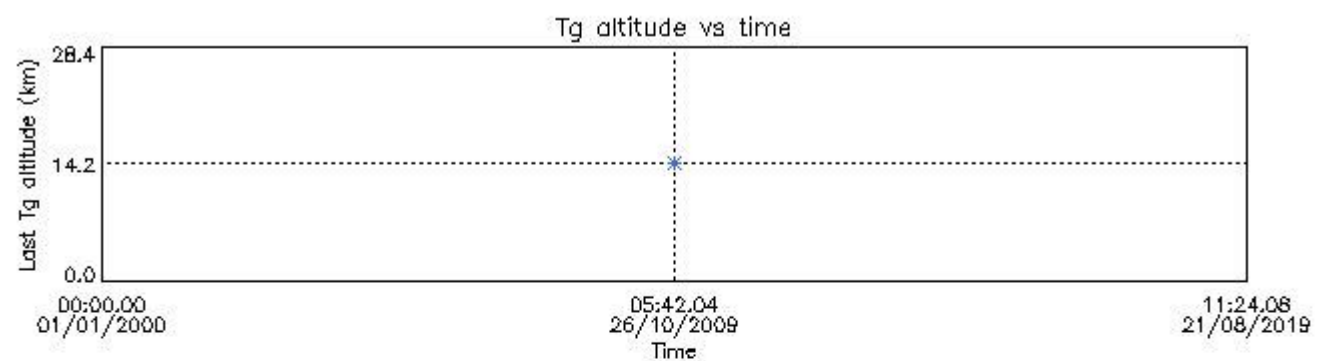
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.205	20.097	NaN
St. deviation:	0.0000	1.5274	NaN
Maximum:	14.205	21.908	NaN
Minimum:	14.205	17.826	NaN
Number of data:	1.0000	5.0000	NaN

### 6.2 Plot for DARK limb products

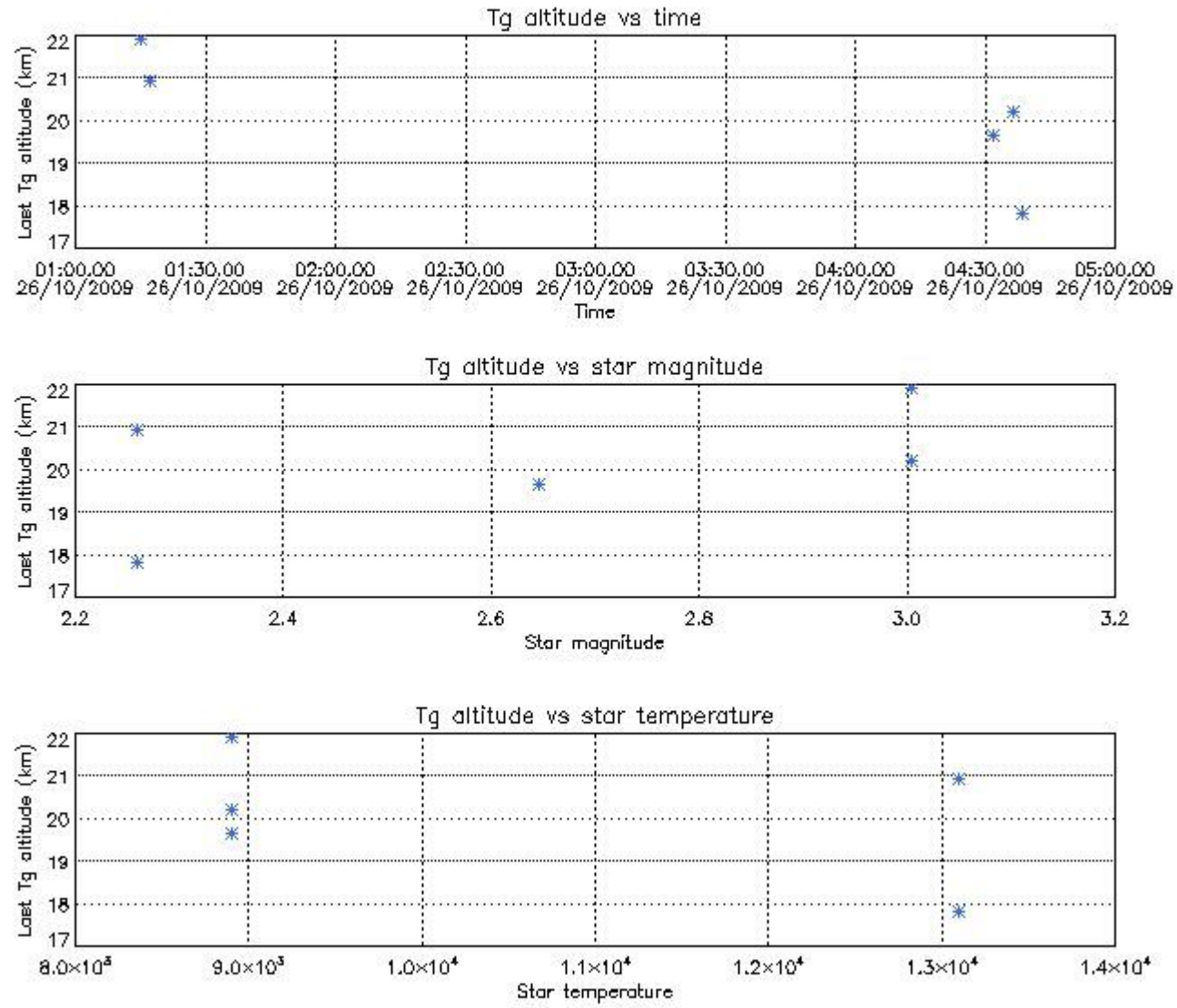


Tangent altitude at which the star is lost



*6.3 Plot for BRIGHT limb products*

## Tangent altitude at which the star is lost

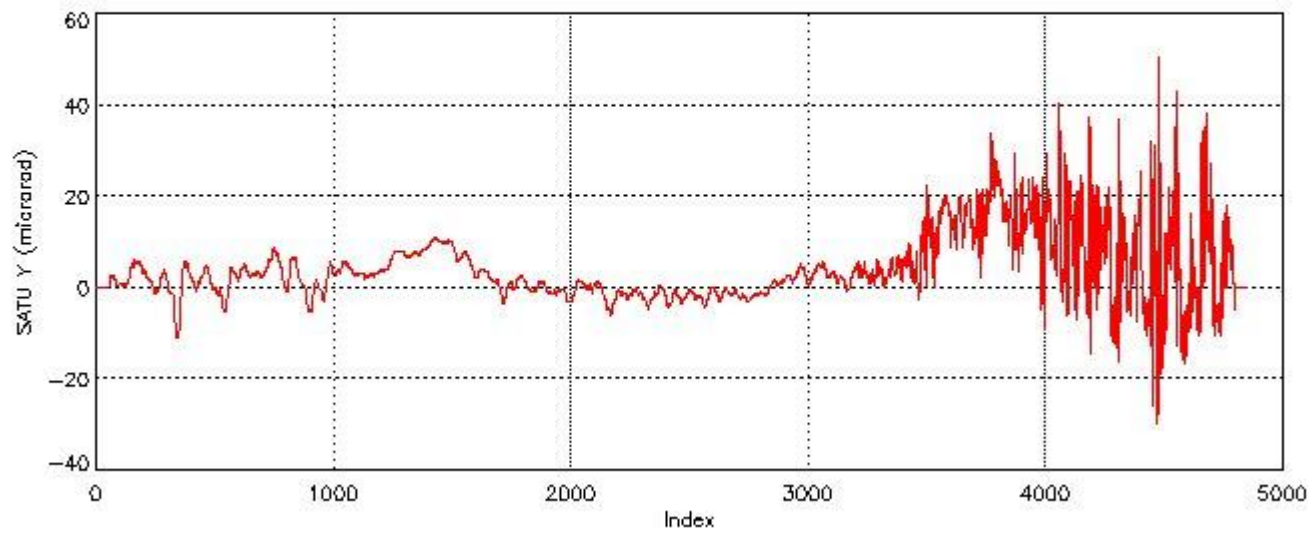
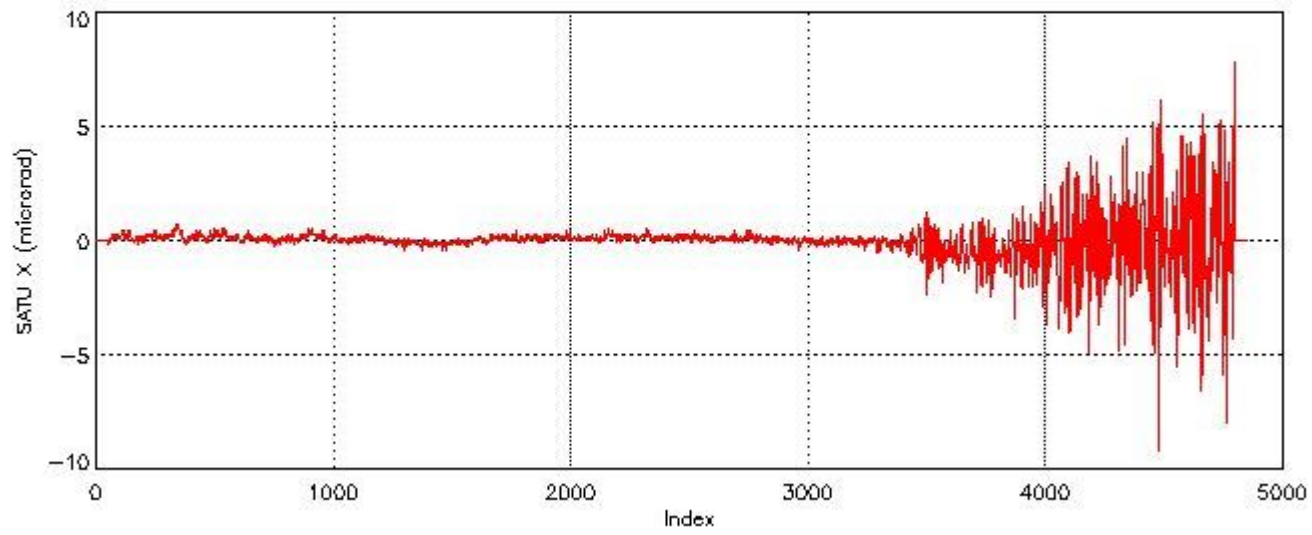


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 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 (in microradians) 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.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14181	1.6185	0.32145	-0.88191
St. deviation:	0.14735	3.1978	0.94857	2.3586
Maximum:	0.70000	8.6000	5.1000	10.100
Minimum:	-0.30000	-11.200	-5.4000	-31.400

Number of data:	1050.0	1050.0	4850.0	4850.0
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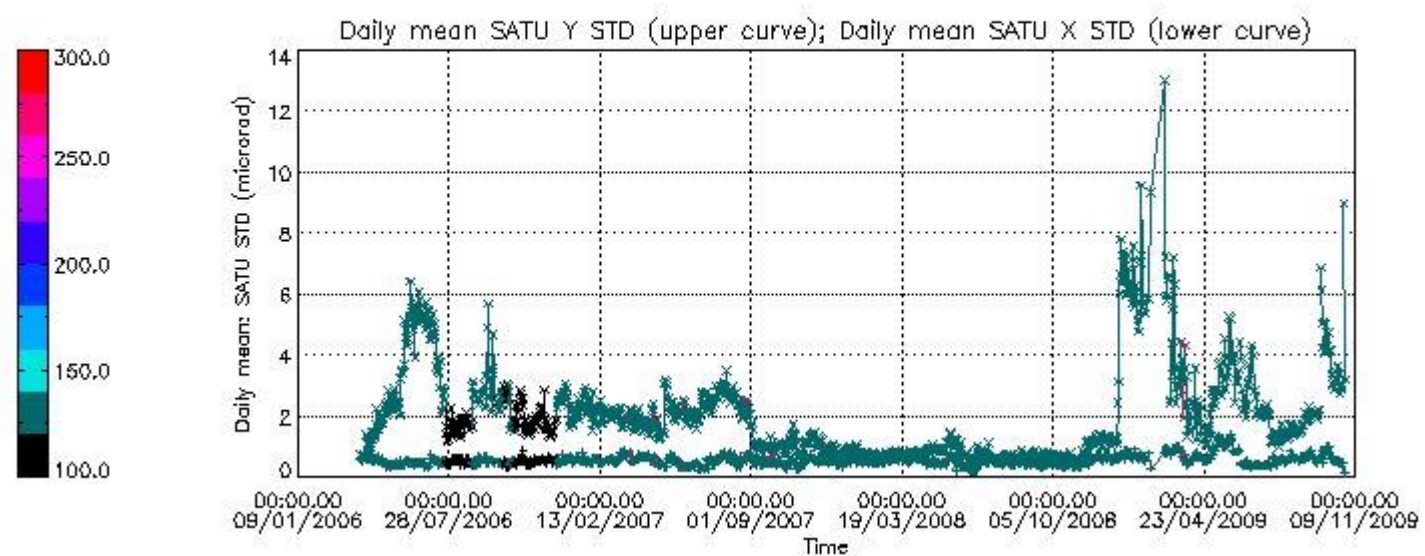
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

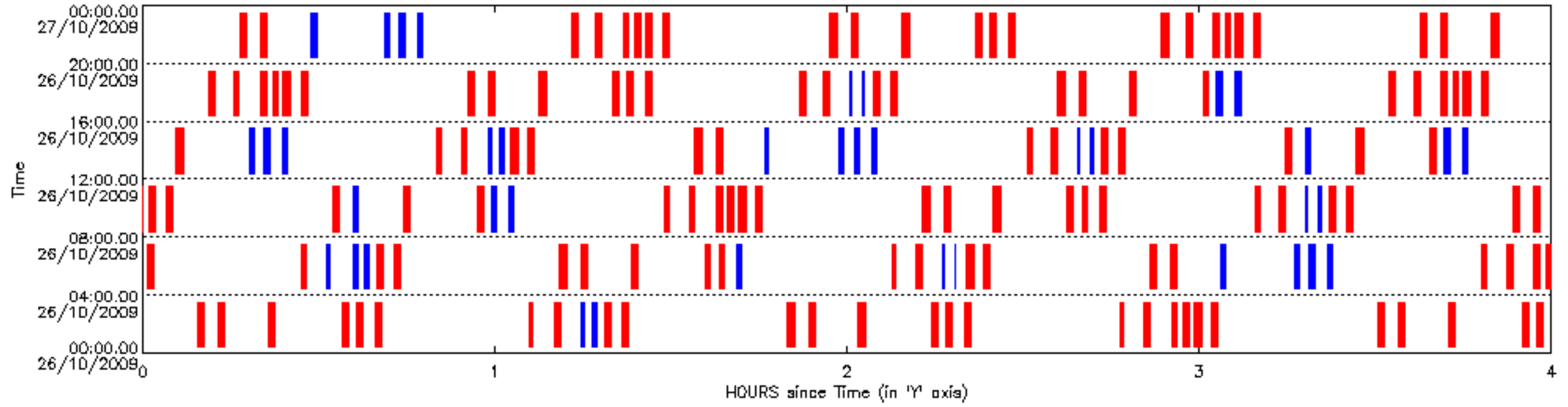


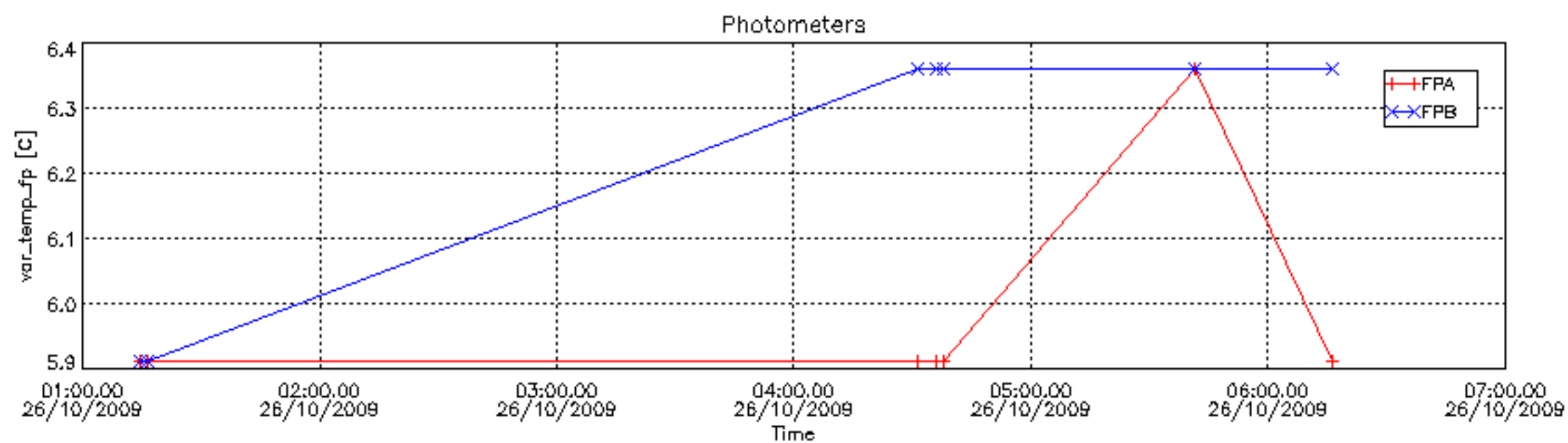
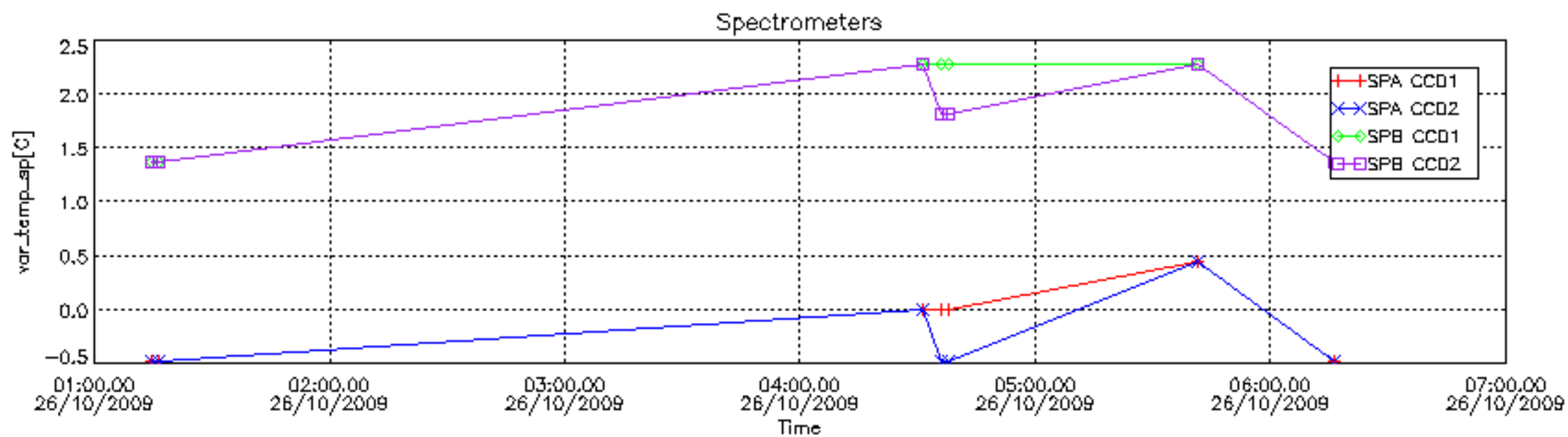
### 8. Auxiliary Data Files used for the production reported in section 2.4

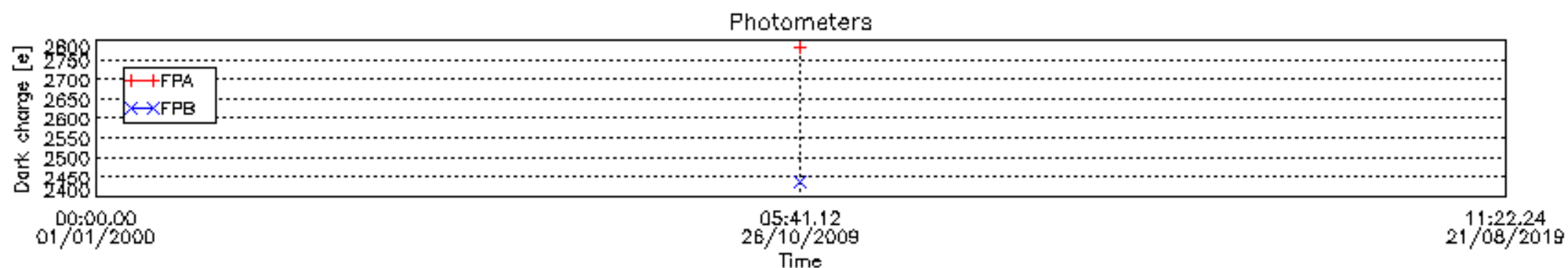
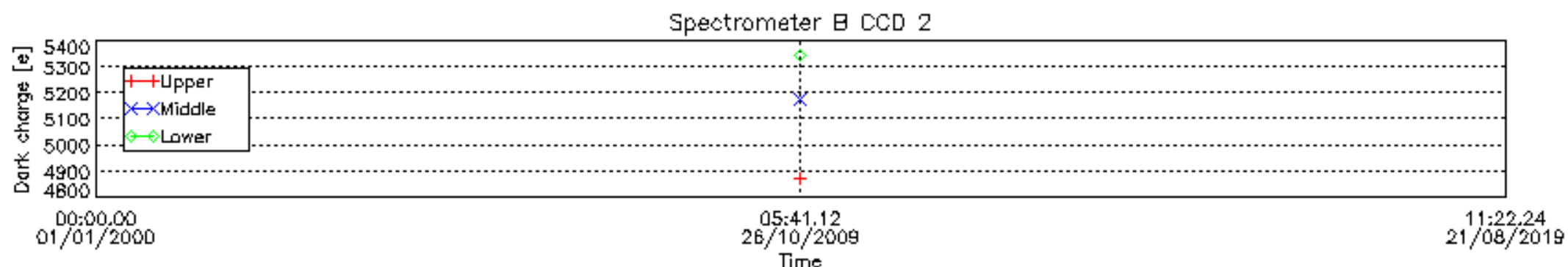
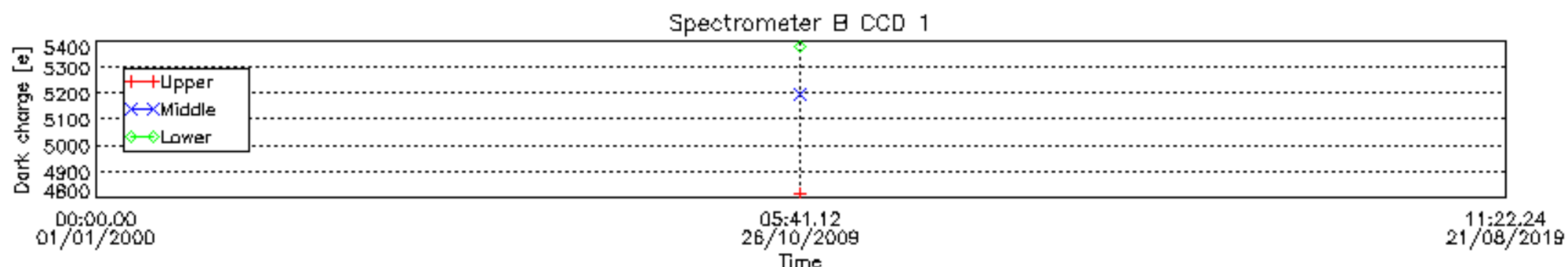
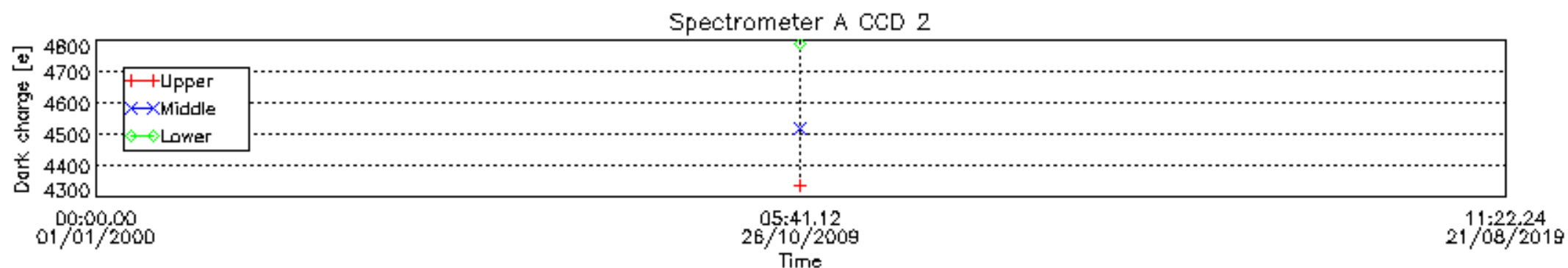
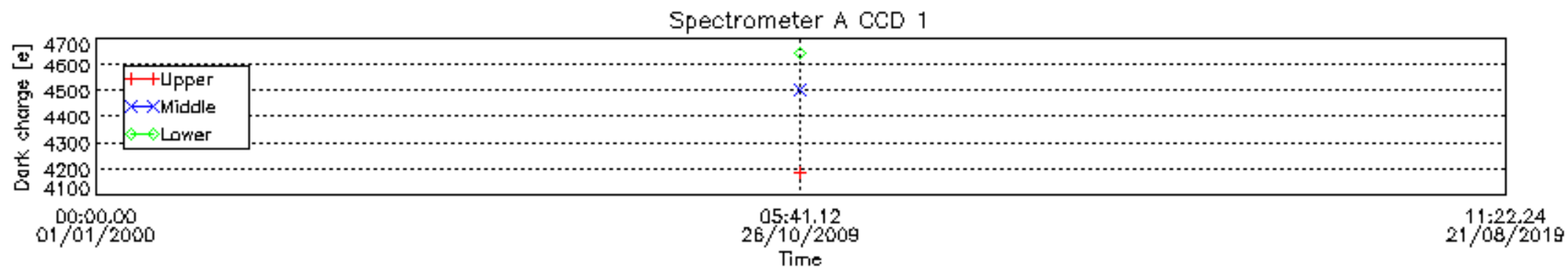
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

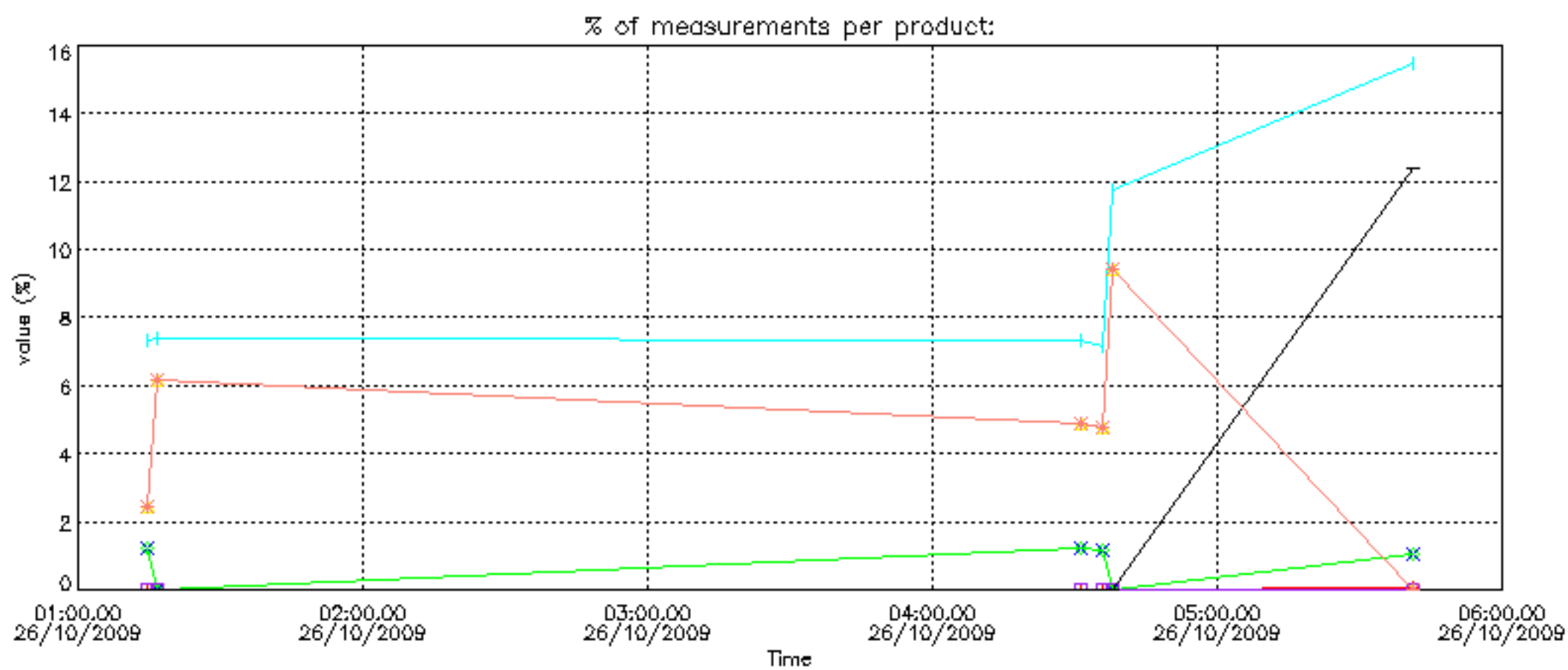
Type	Auxiliary Filename	Used since product	Used since product date
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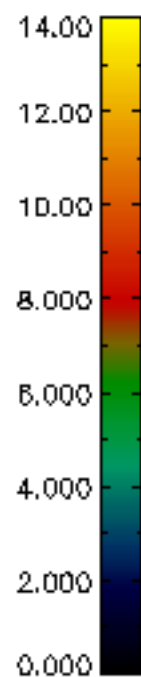
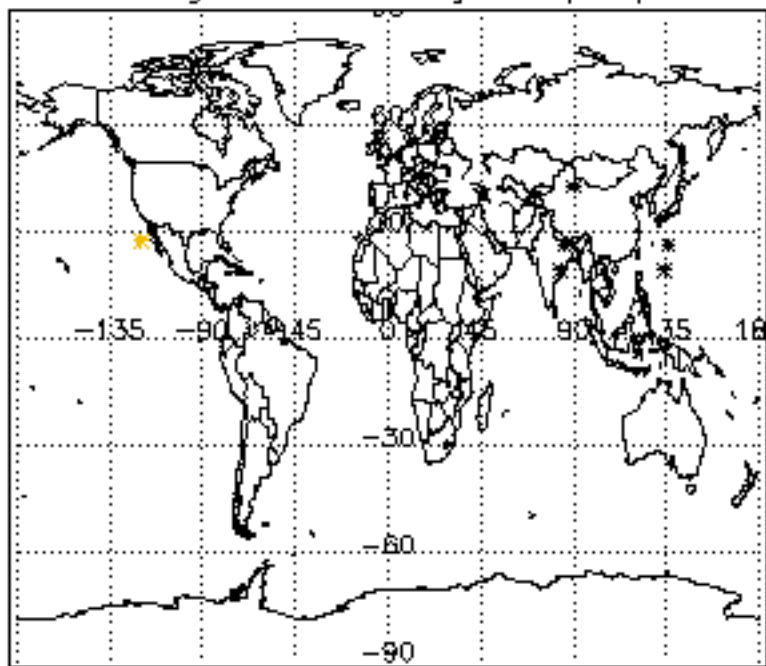




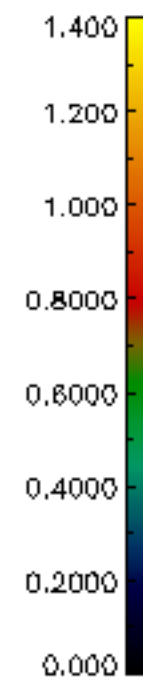
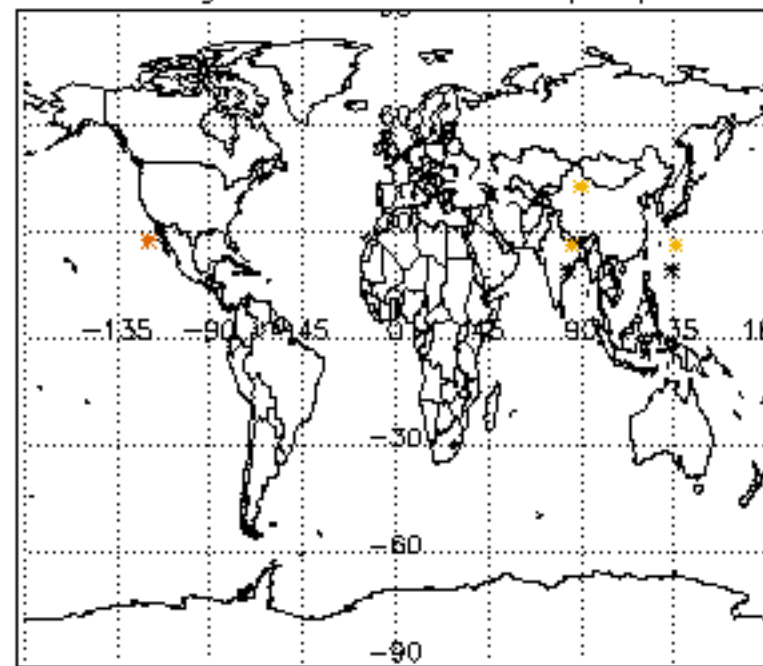




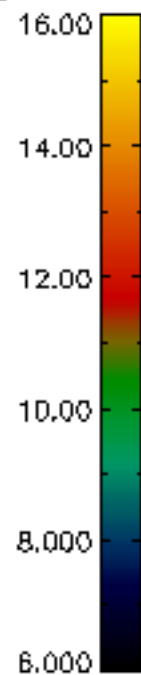
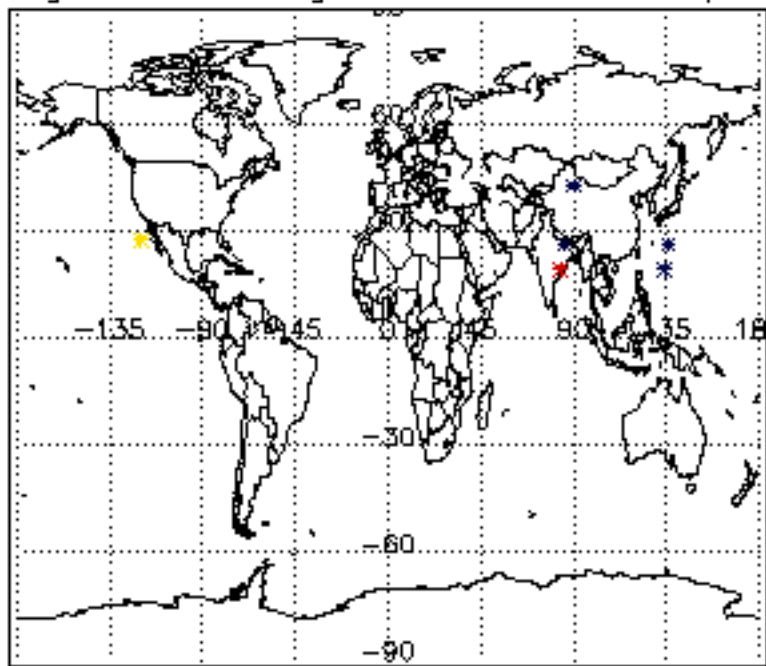
Percentage of cosmic ray hits per profile



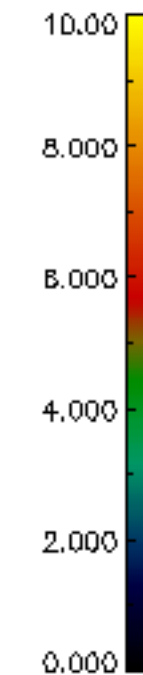
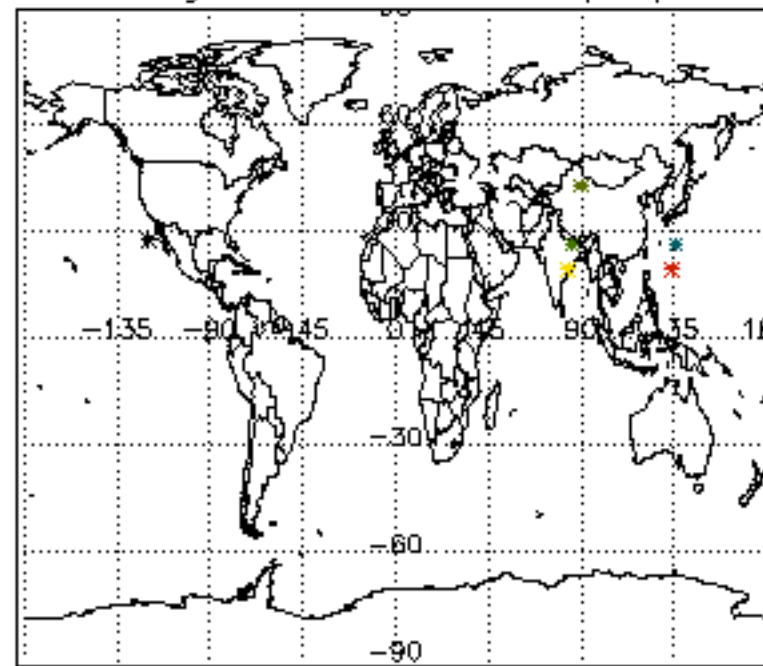
Percentage of datation errors per profile



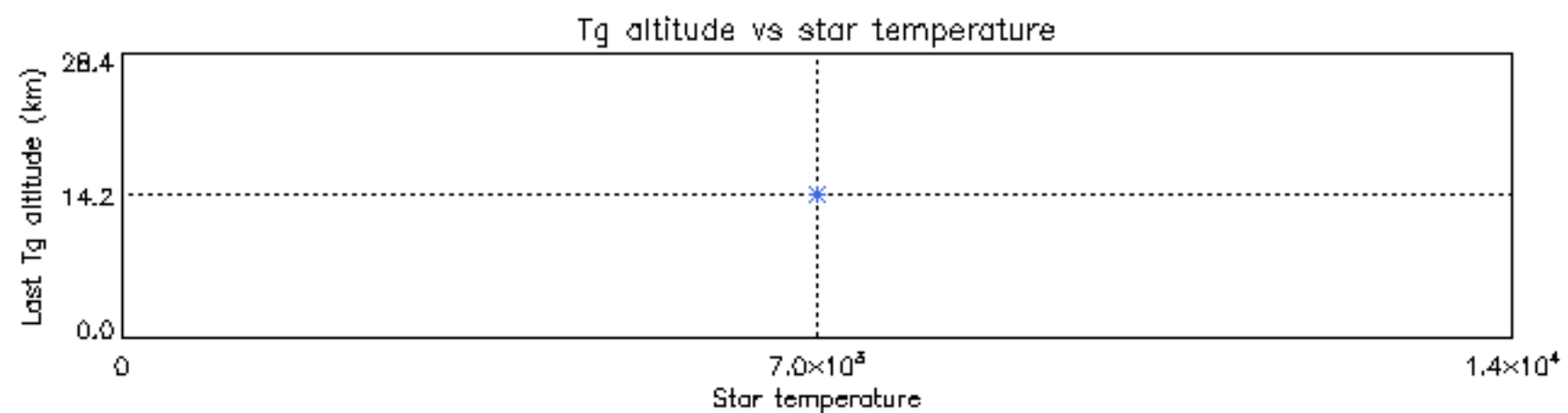
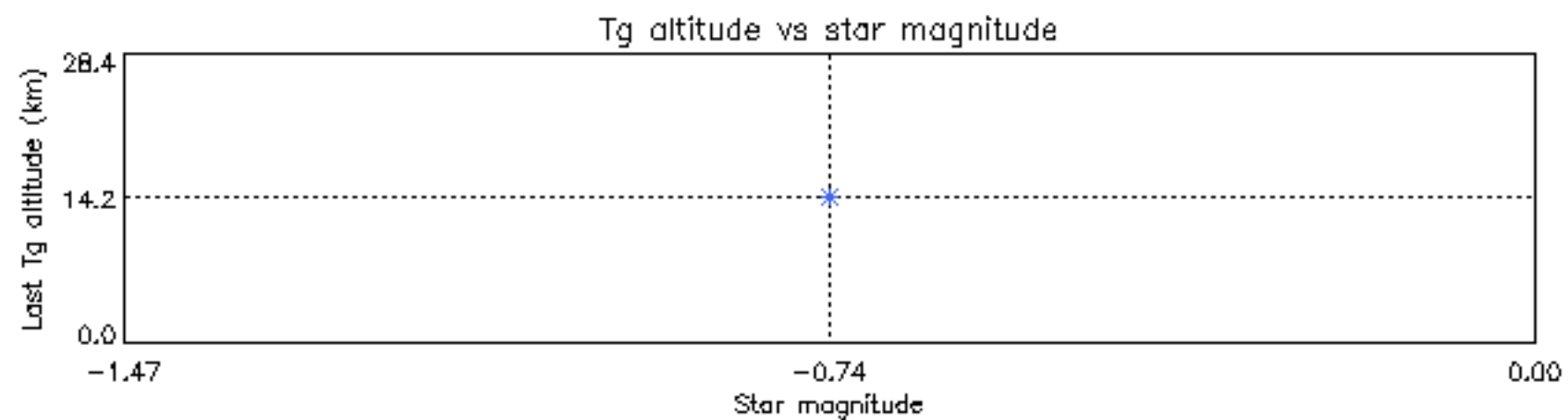
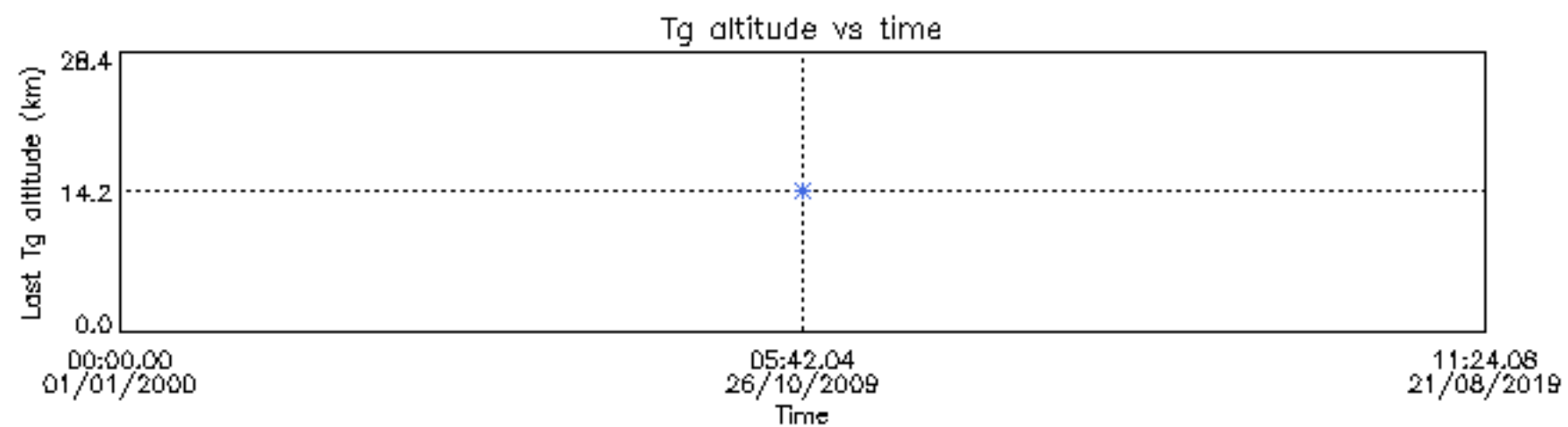
Percentage of star falling outside central band per profile



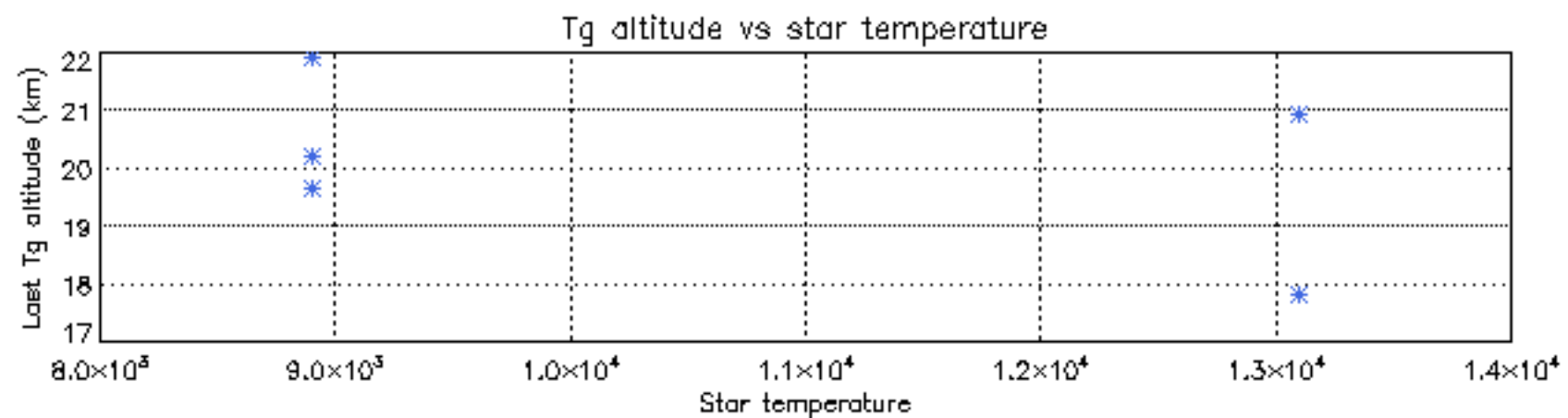
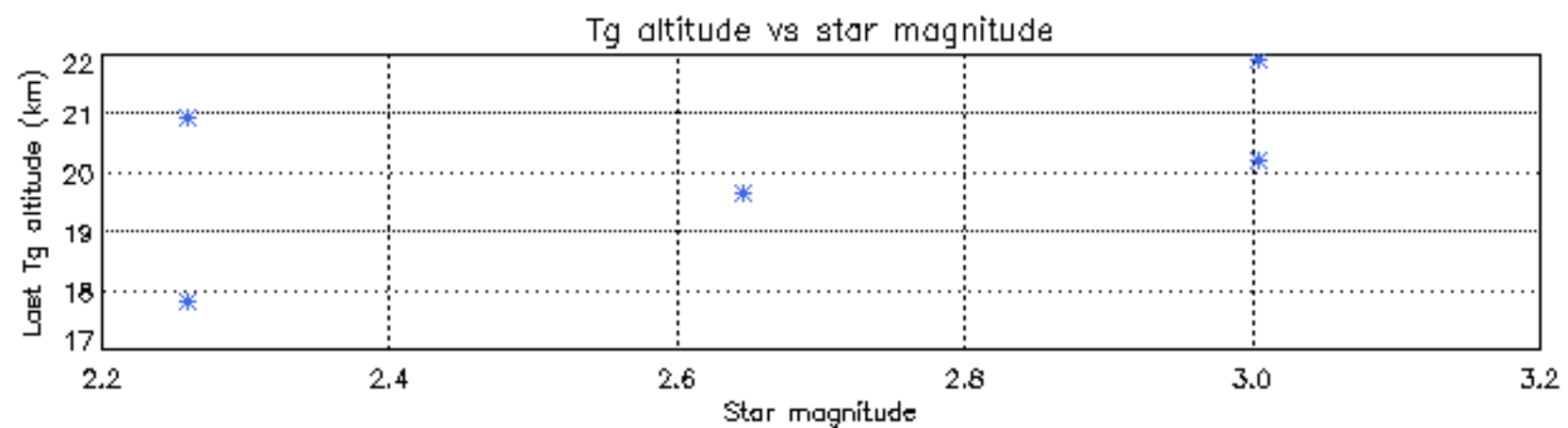
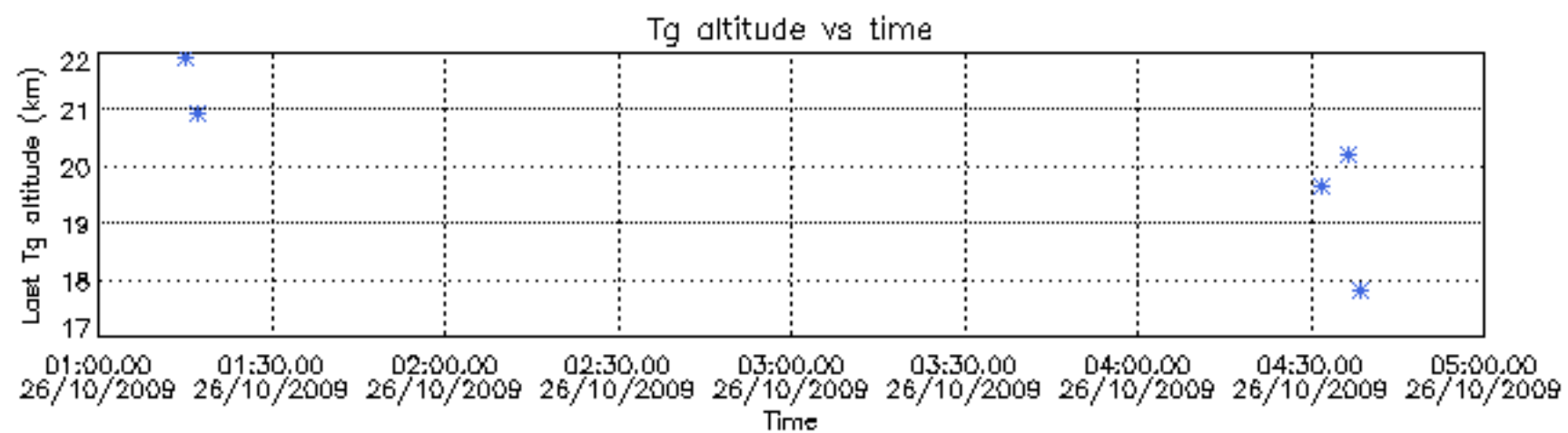
Percentage of saturation errors per profile

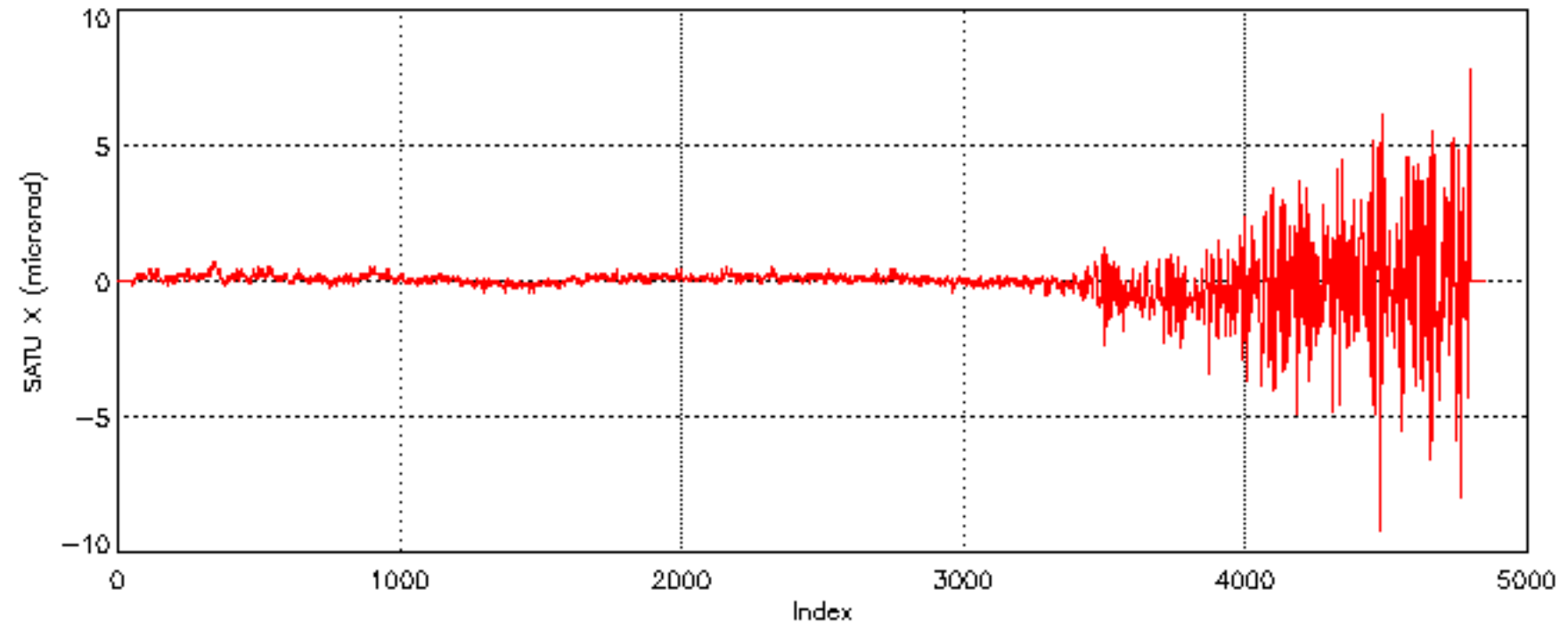


Tangent altitude at which the star is lost

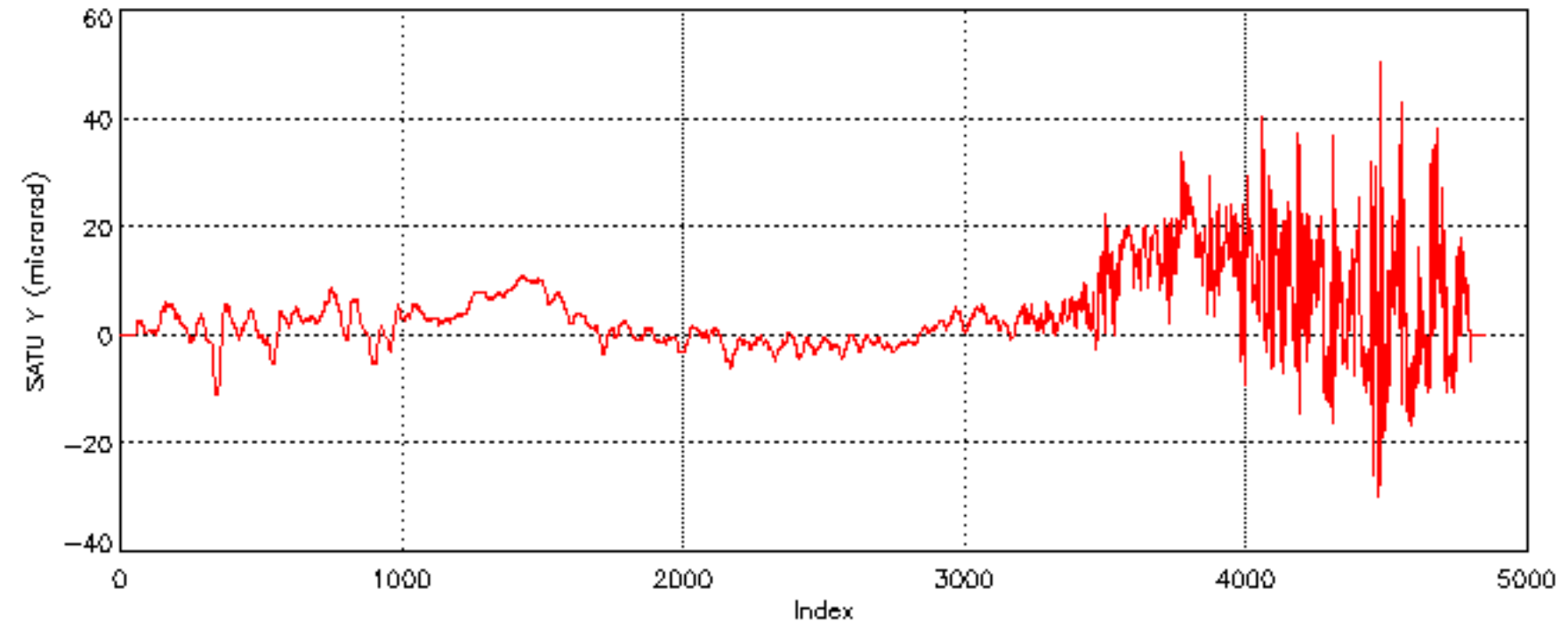


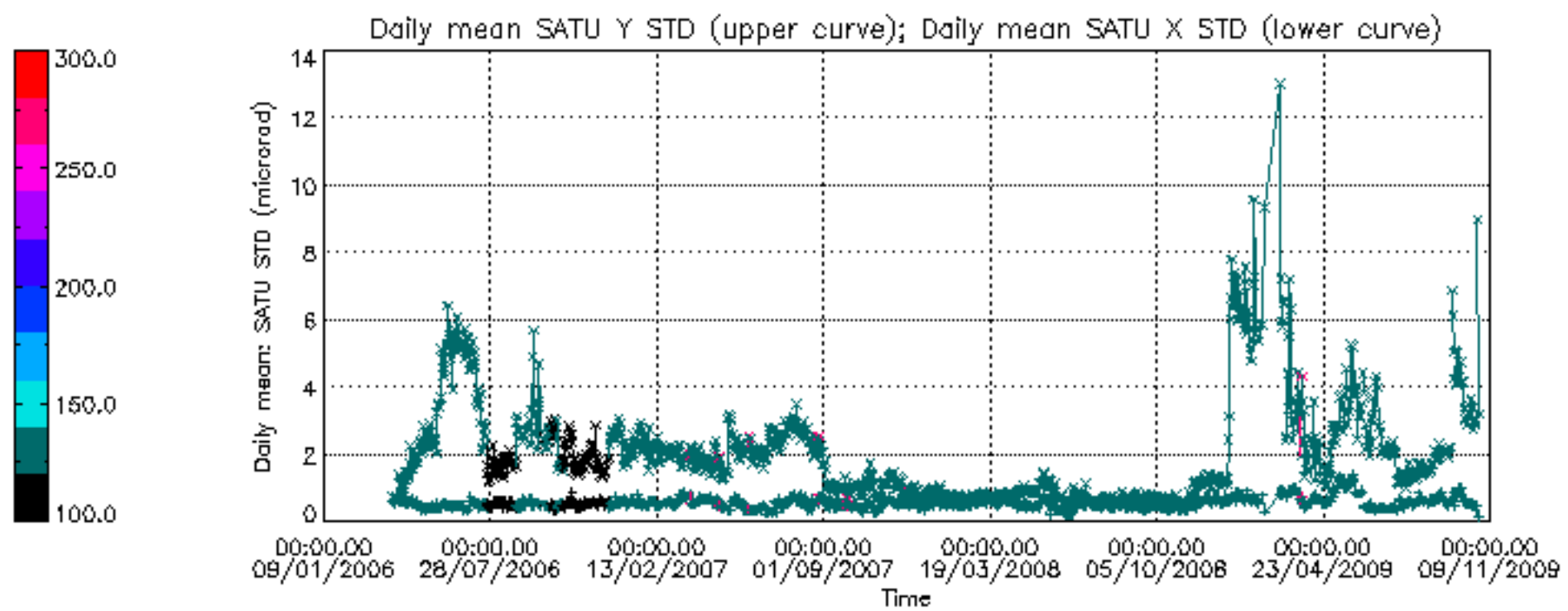
Tangent altitude at which the star is lost











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5; 3029.1; 01-OCT-2009 11:11:27; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39670
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8; 5593.0; 01-OCT-2009 13:34:46; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39671
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11; 6143.7; 01-OCT-2009 15:24:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39672
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3; 2431.9; 01-OCT-2009 16:03:17; Bright; 24.5; 58; 21Alp And ; 2.07; 11000;occ; 49; 0;39673
4; 2653.4; 01-OCT-2009 16:06:59; Bright; 23.0; 53; 43Bet And ; 2.05; 3300;occ; 46; 0;39673
5; 2943.9; 01-OCT-2009 16:11:49; Bright; 16.5; 68; 18Alp Cas ; 2.22; 4500;occ; 33; 0;39673
6; 3029.5; 01-OCT-2009 16:13:15; Bright; 16.0; 76; 27Gam Cas ; 2.30; 30000;occ; 32; 0;39673
7; 4604.3; 01-OCT-2009 16:39:30; Bright; 14.0; 17; 78Bet Gem ; 1.16; 4500;occ; 28; 0;39673
8; 5595.7; 01-OCT-2009 16:56:01; Dark ; 16.5; 132; 15Rho Pup ; 2.80; 6900;occ; 33; 0;39673
9; 5815.8; 01-OCT-2009 16:59:41; Dark ; 19.0; 88; 31Eta CMA ; 2.45; 20000;occ; 38; 0;39673
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6; 2649.2; 02-OCT-2009 03:51:06; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;39680
7; 2939.6; 02-OCT-2009 03:55:56; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;39680
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6; 331.6; 02-OCT-2009 04:53:04; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39681
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4; 2642.7; 02-OCT-2009 20:36:59; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39690
5; 2936.0; 02-OCT-2009 20:41:52; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39690
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6; 934.4; 02-OCT-2009 21:49:07; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39691
7; 1560.8; 02-OCT-2009 21:59:33; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39691
8; 2179.9; 02-OCT-2009 22:09:52; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39691
9; 2427.4; 02-OCT-2009 22:14:00; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39691
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2; 2307.0; 22-OCT-2009 16:41:27; Bright; 36.0; 105; 6Bet Ari ; 2.64; 8900;occ; 72; 0;39974
3; 2592.8; 22-OCT-2009 16:46:13; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;39974
4; 2710.8; 22-OCT-2009 16:48:11; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;39974
5; 2846.0; 22-OCT-2009 16:50:26; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;39974
6; 3011.8; 22-OCT-2009 16:53:12; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;39974
7; 4661.7; 22-OCT-2009 17:20:42; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39974
8; 4868.6; 22-OCT-2009 17:24:09; Bright; 30.5; 22; 32Alp Leo ; 1.36; 15200;occ; 61; 0;39974
9; 5353.0; 22-OCT-2009 17:32:13; Dark ; 37.5; 48; 30Alp Hya ; 1.98; 4100;occ; 75; 0;39974
10; 5951.5; 22-OCT-2009 17:42:12; Dark ; 51.5; 132; 15Rho Pup ; 2.80; 6900;occ; 103; 0;39974
11; 6085.6; 22-OCT-2009 17:44:26; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;39974
12; 6259.0; 22-OCT-2009 17:47:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39974
13; 6454.8; 22-OCT-2009 17:50:35; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39974
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1; 1090.7; 22-OCT-2009 18:01:47; Dark ; 34.0; 157; The1Eri ; 2.91; 9300;occ; 68; 0;39975
2; 2306.4; 22-OCT-2009 18:22:03; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;39975
3; 2592.0; 22-OCT-2009 18:26:48; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;39975
4; 2710.2; 22-OCT-2009 18:28:47; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;39975
5; 2845.0; 22-OCT-2009 18:31:01; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;39975
6; 3011.1; 22-OCT-2009 18:33:47; Bright; 38.5; 160; 23Gam Per ; 2.93; 4700;occ; 77; 0;39975
7; 4662.0; 22-OCT-2009 19:01:18; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39975
8; 4868.8; 22-OCT-2009 19:04:45; Bright; 31.0; 22; 32Alp Leo ; 1.36; 15200;occ; 62; 0;39975
9; 5354.0; 22-OCT-2009 19:12:50; Dark ; 37.5; 48; 30Alp Hya ; 1.98; 4100;occ; 75; 0;39975
10; 5952.8; 22-OCT-2009 19:22:49; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;39975
11; 6087.0; 22-OCT-2009 19:25:03; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;39975
12; 6259.9; 22-OCT-2009 19:27:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39975
13; 6455.3; 22-OCT-2009 19:31:12; Dark ; 37.0; 2; Alp Car ; -0.74; 7000;occ; 74; 0;39975
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2; -1165.6; 23-OCT-2009 00:06:34; Bright; 35.5; 22; 32Alp Leo ; 1.36; 15200;occ; 71; 0;39978
3; -679.4; 23-OCT-2009 00:14:41; Dark ; 24.0; 48; 30Alp Hya ; 1.98; 4100;occ; 48; 0;39978

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2; 2301.1; 23-OCT-2009 21:11:32; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;39991

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1;-1371.9; 23-OCT-2009 06:45:32; Bright; 66.5; 166; 17Eps Leo ; 2.98; 6000;occ; 133; 0;39982  
2;-1164.0; 23-OCT-2009 06:49:00; Bright; 62.5; 22; 32Alp Leo ; 1.36; 15200;occ; 125; 0;39982

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2; 236.0; 23-OCT-2009 17:15:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39989  
3; 430.0; 23-OCT-2009 17:19:09; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;39989  
4; 1096.9; 23-OCT-2009 17:30:16; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;39989

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2; 2301.9; 23-OCT-2009 17:50:21; Bright; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;39989

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2; 431.8; 23-OCT-2009 20:40:23; Dark ; 22.0; 2; Alp Car ; -0.74; 7000;occ; 44; 0;39991

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2;-1159.0; 24-OCT-2009 01:15:40; Bright; 62.5; 22; 32Alp Leo ; 1.36; 15200;occ; 125; 0;39993

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2; 2701.4; 24-OCT-2009 02:20:00; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;39994

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1; 2300.1; 24-OCT-2009 03:53:55; Bright; 43.5; 105; 6Bet Ari ; 2.64; 8900;occ; 87; 0;39995  
2; 2582.5; 24-OCT-2009 03:58:37; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;39995  
3; 2701.3; 24-OCT-2009 04:00:36; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;39995

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2; 2577.6; 24-OCT-2009 20:44:32; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40005  
3; 2696.7; 24-OCT-2009 20:46:31; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40005

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2; 2578.6; 24-OCT-2009 22:25:09; Bright; 7.5; 173; 4Bet Tri ; 3.00; 8900;occ; 15; 0;40006  
3; 2696.6; 24-OCT-2009 22:27:07; Bright; 9.0; 73; 57Gam1And ; 2.26; 13100;occ; 18; 0;40006

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1; 252.9; 24-OCT-2009 23:26:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40007  
2; 444.5; 24-OCT-2009 23:30:10; Dark ; 2.5; 2; Alp Car ; -0.74; 7000;occ; 5; 0;40007  
3; 2296.2; 25-OCT-2009 00:01:02; Bright; 4.5; 105; 6Bet Ari ; 2.64; 8900;occ; 9; 0;40007  
4; 2577.2; 25-OCT-2009 00:05:43; Bright; 4.5; 173; 4Bet Tri ; 3.00; 8900;occ; 9; 0;40007  
5; 2696.3; 25-OCT-2009 00:07:42; Bright; 4.0; 73; 57Gam1And ; 2.26; 13100;occ; 8; 0;40007

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2; 2579.9; 24-OCT-2009 14:02:10; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40001  
3; 2698.4; 24-OCT-2009 14:04:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40001

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2; 2697.9; 24-OCT-2009 15:44:44; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40002

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2; 445.6; 25-OCT-2009 02:51:23; Dark ; 24.5; 2; Alp Car ; -0.74; 7000;occ; 49; 0;40009  
3; 2295.6; 25-OCT-2009 03:22:13; Bright; 15.5; 105; 6Bet Ari ; 2.64; 8900;occ; 31; 0;40009  
4; 2575.9; 25-OCT-2009 03:26:54; Bright; 18.0; 173; 4Bet Tri ; 3.00; 8900;occ; 36; 0;40009  
5; 2694.8; 25-OCT-2009 03:28:53; Bright; 14.0; 73; 57Gam1And ; 2.26; 13100;occ; 28; 0;40009

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1; -648.7; 25-OCT-2009 05:54:21; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;40010  
2; 110.7; 25-OCT-2009 06:07:00; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;40011  
3; 256.6; 25-OCT-2009 06:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40011  
4; 448.3; 25-OCT-2009 06:12:38; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40011  
5; 2294.9; 25-OCT-2009 06:43:25; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;40011  
6; 2575.2; 25-OCT-2009 06:48:05; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;40011  
7; 2694.6; 25-OCT-2009 06:50:04; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40011

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1; 2292.8; 25-OCT-2009 20:08:10; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;40019



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2; 2571.2; 25-OCT-2009 20:12:48; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40019
3; 2690.7; 25-OCT-2009 20:14:48; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;40019
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2; 265.1; 25-OCT-2009 21:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40020
3; 455.1; 25-OCT-2009 21:18:08; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40020
4; 2690.9; 25-OCT-2009 21:55:24; Bright; 15.0; 73; 57Gam1And ; 2.26; 13100;occ; 30; 0;40020
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1; 266.0; 25-OCT-2009 22:55:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40021
2; 455.6; 25-OCT-2009 22:58:45; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40021
3; 2570.6; 25-OCT-2009 23:34:00; Bright; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;40021
4; 2690.4; 25-OCT-2009 23:35:59; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;40021
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2; 110.8; 25-OCT-2009 07:47:37; Dark ; 6.0; 34; Gam2Vel ; 1.79; 23000;occ; 12; 0;40012
3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
4; 448.1; 25-OCT-2009 07:53:14; Dark ; 6.0; 2; Alp Car ;-0.74; 7000;occ; 12; 0;40012
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2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
4; 6484.7; 25-OCT-2009 09:33:50; Dark ; 16.0; 2; Alp Car ;-0.74; 7000;occ; 32; 0;40012
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2; 2573.8; 25-OCT-2009 10:09:15; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40013
3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
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2; 2573.4; 25-OCT-2009 11:49:51; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40014
3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
4; 6487.8; 25-OCT-2009 14:35:41; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;40015
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2; 2572.6; 25-OCT-2009 15:11:02; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;40016
3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
4; 4887.7; 25-OCT-2009 15:49:37; Bright; 45.0; 22; 32Alp Leo ; 1.36; 15200;occ; 90; 0;40016
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2; 2572.2; 25-OCT-2009 16:51:38; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40017
3; 2692.0; 25-OCT-2009 16:53:37; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40017
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2; 2690.0; 26-OCT-2009 01:16:35; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40022
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
3; 2689.4; 26-OCT-2009 04:37:46; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40024
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1; 459.0; 26-OCT-2009 05:41:12; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40025
2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
4; 459.6; 26-OCT-2009 07:21:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
6; 6499.0; 26-OCT-2009 14:04:15; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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