

# GOMOS Daily Report 25-JAN-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	28JAN2009 05:32:29
Data source version	GOMOS/5.00
Start time of products	25JAN2009 00:03:15
Stop time of products	25JAN2009 02:30:50
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

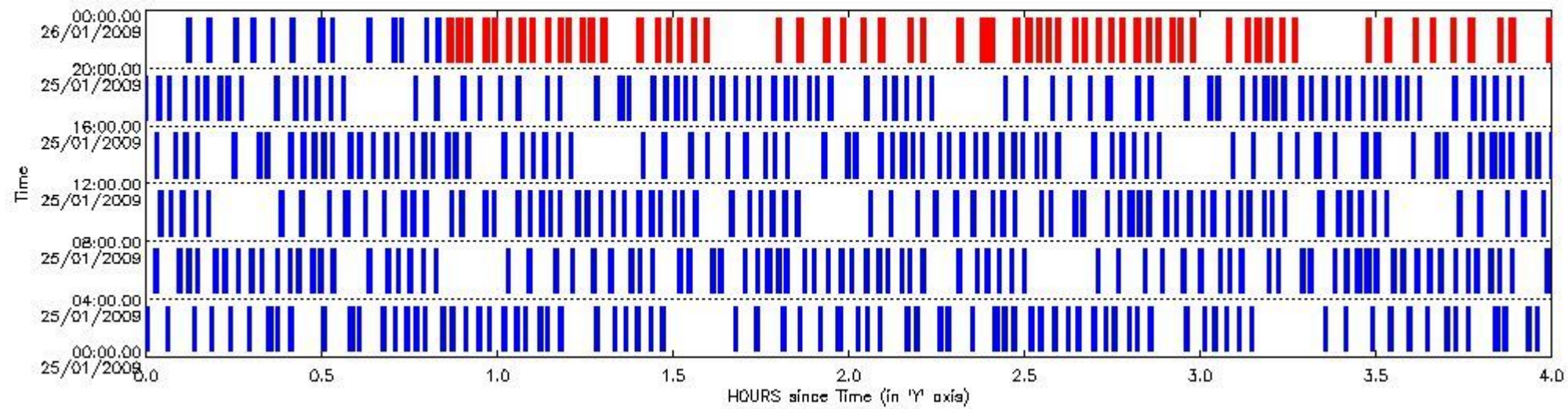
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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
25-JAN-2009 20:51:19	DSA1027	0	36112
25-JAN-2009 20:53:00	Alp1Cen	4	36112
25-JAN-2009 20:54:35	EpsCen	77	36112
25-JAN-2009 20:57:34	Alp1Cru	12	36112
25-JAN-2009 20:59:13	DelCen	99	36112
25-JAN-2009 21:01:31	BetCar	29	36112
25-JAN-2009 21:03:44	IotCar	71	36112
25-JAN-2009 21:05:32	DelVel	46	36112
25-JAN-2009 21:08:07	Gam2Vel	34	36112
25-JAN-2009 21:10:13	ZetPup	70	36112
25-JAN-2009 21:11:41	PiPup	117	36112
25-JAN-2009 21:14:09	21EpsCMa	23	36112
25-JAN-2009 21:15:32	24Omi2CMa	179	36112
25-JAN-2009 21:17:41	9AlpCMa	1	36112
25-JAN-2009 21:23:44	10AlpCMi	8	36112

25-JAN-2009 21:26:59	24GamGem	44	36112
25-JAN-2009 21:28:47	13MuGem	151	36112
25-JAN-2009 21:30:40	78BetGem	17	36112
25-JAN-2009 21:33:01	37TheAur	107	36112
25-JAN-2009 21:35:09	34BetAur	42	36112
25-JAN-2009 21:47:37	1AlpUMi	49	36112
25-JAN-2009 21:51:03	7BetUMi	60	36112
25-JAN-2009 21:55:39	14EtaDra	119	36112
25-JAN-2009 21:58:36	23BetDra	130	36112
25-JAN-2009 22:02:02	3AlpLyr	5	36112
25-JAN-2009 22:05:05	40ZetHer	133	36112
25-JAN-2009 22:10:05	55AlpOph	59	36112
25-JAN-2009 22:12:11	60BetOph	126	36112
25-JAN-2009 22:18:26	35EtaOph	86	36112
25-JAN-2009 22:22:29	21AlpSco	16	36112
25-JAN-2009 22:23:52	26EpsSco	75	36112
25-JAN-2009 22:28:06	GamLup	131	36112
25-JAN-2009 22:30:10	BetLup	109	36112
25-JAN-2009 22:31:56	DSA1027	0	36113
25-JAN-2009 22:33:36	Alp1Cen	4	36113
25-JAN-2009 22:35:12	EpsCen	77	36113
25-JAN-2009 22:38:11	Alp1Cru	12	36113
25-JAN-2009 22:39:49	DelCen	99	36113
25-JAN-2009 22:42:07	BetCar	29	36113
25-JAN-2009 22:44:20	lotCar	71	36113
25-JAN-2009 22:46:08	DelVel	46	36113
25-JAN-2009 22:48:44	Gam2Vel	34	36113
25-JAN-2009 22:50:50	ZetPup	70	36113
25-JAN-2009 22:52:18	PiPup	117	36113
25-JAN-2009 22:54:45	21EpsCMa	23	36113
25-JAN-2009 22:56:08	24Omi2CMa	179	36113
25-JAN-2009 22:58:18	9AlpCMa	1	36113
25-JAN-2009 23:04:20	10AlpCMi	8	36113
25-JAN-2009 23:07:35	24GamGem	44	36113
25-JAN-2009 23:09:23	13MuGem	151	36113
25-JAN-2009 23:11:16	78BetGem	17	36113
25-JAN-2009 23:13:37	37TheAur	107	36113
25-JAN-2009 23:15:45	34BetAur	42	36113
25-JAN-2009 23:28:12	1AlpUMi	49	36113
25-JAN-2009 23:31:39	7BetUMi	60	36113
25-JAN-2009 23:36:15	14EtaDra	119	36113
25-JAN-2009 23:39:12	23BetDra	130	36113
25-JAN-2009 23:42:38	3AlpLyr	5	36113
25-JAN-2009 23:45:41	40ZetHer	133	36113
25-JAN-2009 23:50:41	55AlpOph	59	36113
25-JAN-2009 23:52:48	60BetOph	126	36113
25-JAN-2009 23:59:03	35EtaOph	86	36113

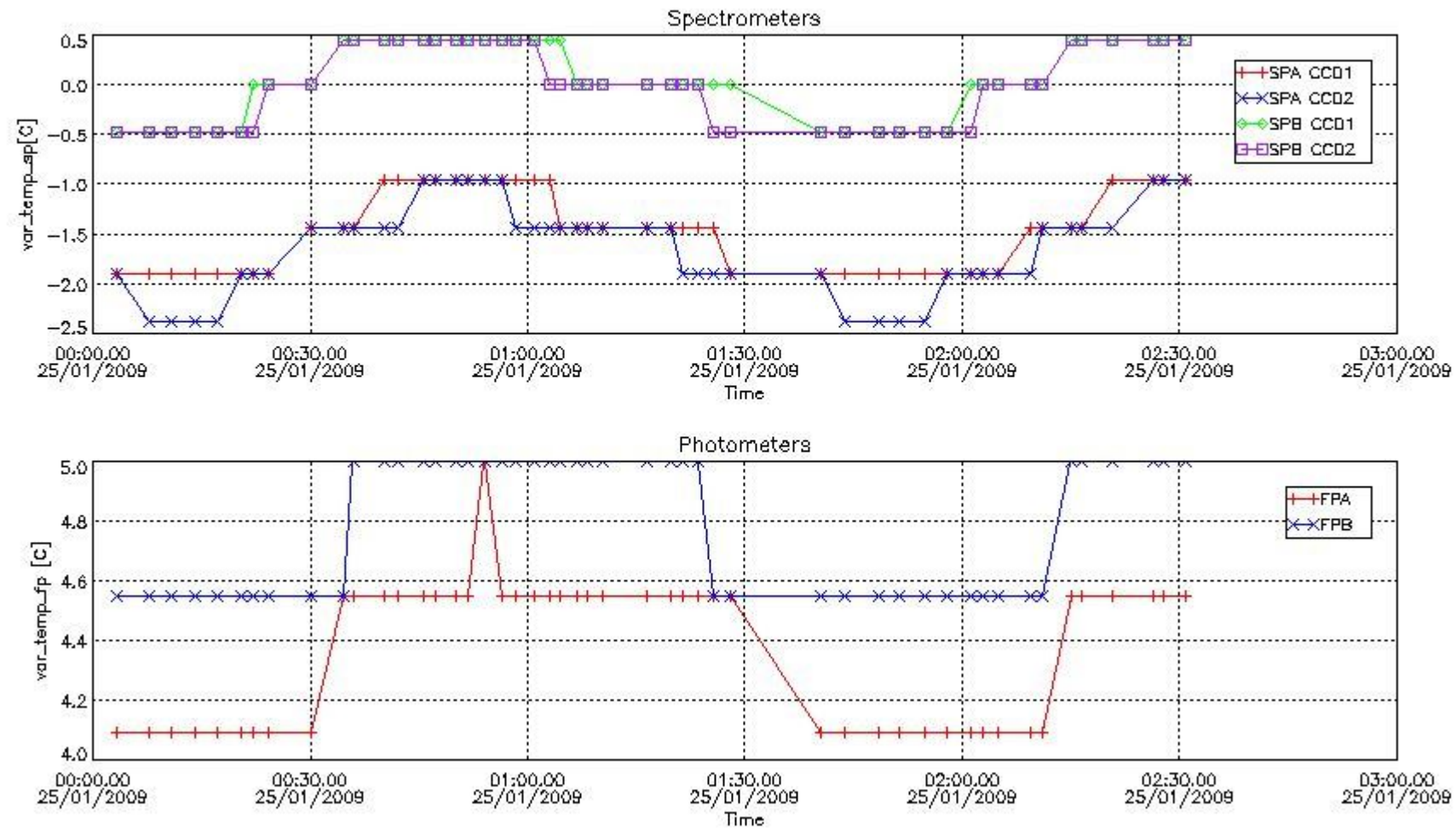
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090125_000315_000000382075_00474_36099_1069.N1	25-JAN-2009 00:03:15	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	36099	No
2	GOM_TRA_1PNPDE20090125_000750_000000392075_00474_36099_1070.N1	25-JAN-2009 00:07:50	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	36099	No
3	GOM_TRA_1PNPDE20090125_001045_000000362075_00474_36099_1071.N1	25-JAN-2009 00:10:45	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	36099	No
4	GOM_TRA_1PNPDE20090125_001409_000000362075_00474_36099_1072.N1	25-JAN-2009 00:14:09	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	36099	No
5	GOM_TRA_1PNPDE20090125_001713_000000392075_00474_36099_1073.N1	25-JAN-2009 00:17:13	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	36099	No
6	GOM_TRA_1PNPDE20090125_002034_000000602075_00474_36099_1074.N1	25-JAN-2009 00:20:34	Bright	60.000	127	27Bet Her	2.7810	4700.0	120	36099	No
7	GOM_TRA_1PNPDE20090125_002211_000000362075_00474_36099_1075.N1	25-JAN-2009 00:22:11	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	36099	No

8	GOM_TRA_1PNPDE20090125_002418_000000512075_00474_36099_1076.N1	25-JAN-2009 00:24:18	Bright	51.000	126	60Bet Oph	2.7700	4250.0	102	36099	No
9	GOM_TRA_1PNPDE20090125_003001_000000452075_00474_36099_1077.N1	25-JAN-2009 00:30:01	Twilight	44.500	98	13Zet Oph	2.5710	30000.	89	36099	No
10	GOM_TRA_1PNPDE20090125_003431_000000562075_00474_36099_1273.N1	25-JAN-2009 00:34:31	Dark	56.000	16	21Alp Sco	1.0200	3000.0	112	36099	No
11	GOM_TRA_1PNPDE20090125_003556_000000422075_00474_36099_1274.N1	25-JAN-2009 00:35:56	Dark	42.000	75	26Eps Sco	2.2910	4250.0	84	36099	No
12	GOM_TRA_1PNPDE20090125_004007_000000422075_00474_36099_1275.N1	25-JAN-2009 00:40:07	Dark	41.500	131	Gam Lup	2.8000	26000.	83	36099	No
13	GOM_TRA_1PNPDE20090125_004210_000000422075_00474_36099_1276.N1	25-JAN-2009 00:42:10	Dark	42.000	109	Bet Lup	2.6770	26000.	84	36099	No
14	GOM_TRA_1PNPDE20090125_004539_000000502075_00475_36100_1277.N1	25-JAN-2009 00:45:39	Dark	49.500	4	Alp1Cen	-0.010000	5800.0	99	36100	No
15	GOM_TRA_1PNPDE20090125_004712_000000422075_00475_36100_1278.N1	25-JAN-2009 00:47:12	Dark	42.000	77	Eps Cen	2.3030	28000.	84	36100	No
16	GOM_TRA_1PNPDE20090125_005014_000000432075_00475_36100_1279.N1	25-JAN-2009 00:50:14	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	36100	No
17	GOM_TRA_1PNPDE20090125_005149_000000442075_00475_36100_1280.N1	25-JAN-2009 00:51:49	Dark	44.000	99	Del Cen	2.5750	26000.	88	36100	No
18	GOM_TRA_1PNPDE20090125_005413_000000372075_00475_36100_1281.N1	25-JAN-2009 00:54:13	Dark	37.000	29	Bet Car	1.6720	10200.	74	36100	No
19	GOM_TRA_1PNPDE20090125_005625_000000432075_00475_36100_1282.N1	25-JAN-2009 00:56:25	Dark	42.500	71	lot Car	2.2460	7700.0	85	36100	No
20	GOM_TRA_1PNPDE20090125_005814_000000442075_00475_36100_1283.N1	25-JAN-2009 00:58:14	Dark	43.500	46	Del Vel	1.9540	10600.	87	36100	No
21	GOM_TRA_1PNPDE20090125_010049_000000432075_00475_36100_1284.N1	25-JAN-2009 01:00:49	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	36100	No
22	GOM_TRA_1PNPDE20090125_010256_000000382075_00475_36100_1285.N1	25-JAN-2009 01:02:56	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	36100	No
23	GOM_TRA_1PNPDE20090125_010425_000000422075_00475_36100_1286.N1	25-JAN-2009 01:04:25	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	36100	No
24	GOM_TRA_1PNPDE20090125_010652_000000422075_00475_36100_1287.N1	25-JAN-2009 01:06:52	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	36100	No
25	GOM_TRA_1PNPDE20090125_010815_000000352075_00475_36100_1288.N1	25-JAN-2009 01:08:15	Straylight	35.000	179	24Omi2CMa	3.0320	24000.	70	36100	No
26	GOM_TRA_1PNPDE20090125_011025_000000432075_00475_36100_1289.N1	25-JAN-2009 01:10:25	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	36100	No
27	GOM_TRA_1PNPDE20090125_011631_000000502075_00475_36100_1290.N1	25-JAN-2009 01:16:31	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	36100	No
28	GOM_TRA_1PNPDE20090125_011944_000000382075_00475_36100_1291.N1	25-JAN-2009 01:19:44	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	36100	No
29	GOM_TRA_1PNPDE20090125_012131_000000372075_00475_36100_1292.N1	25-JAN-2009 01:21:31	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	36100	No
30	GOM_TRA_1PNPDE20090125_012329_000000422075_00475_36100_1293.N1	25-JAN-2009 01:23:29	Bright	42.000	17	78Bet Gem	1.1610	4500.0	84	36100	No
31	GOM_TRA_1PNPDE20090125_012545_000000352075_00475_36100_1294.N1	25-JAN-2009 01:25:45	Bright	35.000	107	37The Aur	2.6490	11000.	70	36100	No
32	GOM_TRA_1PNPDE20090125_012753_000000362075_00475_36100_1295.N1	25-JAN-2009 01:27:53	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	36100	No
33	GOM_TRA_1PNPDE20090125_014022_000000362075_00475_36100_1296.N1	25-JAN-2009 01:40:22	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	36100	No
34	GOM_TRA_1PNPDE20090125_014351_000000402075_00475_36100_1297.N1	25-JAN-2009 01:43:51	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	36100	No
35	GOM_TRA_1PNPDE20090125_014826_000000392075_00475_36100_1298.N1	25-JAN-2009 01:48:26	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	36100	No
36	GOM_TRA_1PNPDE20090125_015121_000000372075_00475_36100_1299.N1	25-JAN-2009 01:51:21	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	36100	No
37	GOM_TRA_1PNPDE20090125_015446_000000342075_00475_36100_1300.N1	25-JAN-2009 01:54:46	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	36100	No
38	GOM_TRA_1PNPDE20090125_015749_000000582075_00475_36100_1301.N1	25-JAN-2009 01:57:49	Bright	58.000	133	40Zet Her	2.8070	6000.0	116	36100	No
39	GOM_TRA_1PNPDE20090125_020110_000000422075_00475_36100_1302.N1	25-JAN-2009 02:01:10	Bright	42.000	127	27Bet Her	2.7810	4700.0	84	36100	No
40	GOM_TRA_1PNPDE20090125_020247_000000352075_00475_36100_1303.N1	25-JAN-2009 02:02:47	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	36100	No
41	GOM_TRA_1PNPDE20090125_020454_000000352075_00475_36100_1304.N1	25-JAN-2009 02:04:54	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	36100	No
42	GOM_TRA_1PNPDE20090125_020928_000000552075_00475_36100_1413.N1	25-JAN-2009 02:09:28	Twilight	55.000	120	1Del Oph	2.7340	3200.0	110	36100	No
43	GOM_TRA_1PNPDE20090125_021107_000000442075_00475_36100_1414.N1	25-JAN-2009 02:11:07	Bright	43.500	86	35Eta Oph	2.4300	10200.	87	36100	No
44	GOM_TRA_1PNPDE20090125_021508_000000482075_00475_36100_1415.N1	25-JAN-2009 02:15:08	Dark	48.000	16	21Alp Sco	1.0200	3000.0	96	36100	No
45	GOM_TRA_1PNPDE20090125_021633_000000472075_00475_36100_1416.N1	25-JAN-2009 02:16:33	Dark	47.000	75	26Eps Sco	2.2910	4250.0	94	36100	No
46	GOM_TRA_1PNPDE20090125_022044_000000422075_00475_36100_1417.N1	25-JAN-2009 02:20:44	Dark	41.500	131	Gam Lup	2.8000	26000.	83	36100	No
47	GOM_TRA_1PNPDE20090125_022616_000000432075_00476_36101_1418.N1	25-JAN-2009 02:26:16	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	36101	No
48	GOM_TRA_1PNPDE20090125_022748_000000432075_00476_36101_1419.N1	25-JAN-2009 02:27:48	Dark	43.000	77	Eps Cen	2.3030	28000.	86	36101	No
49	GOM_TRA_1PNPDE20090125_023050_000000402075_00476_36101_1420.N1	25-JAN-2009 02:30:50	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	36101	No

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





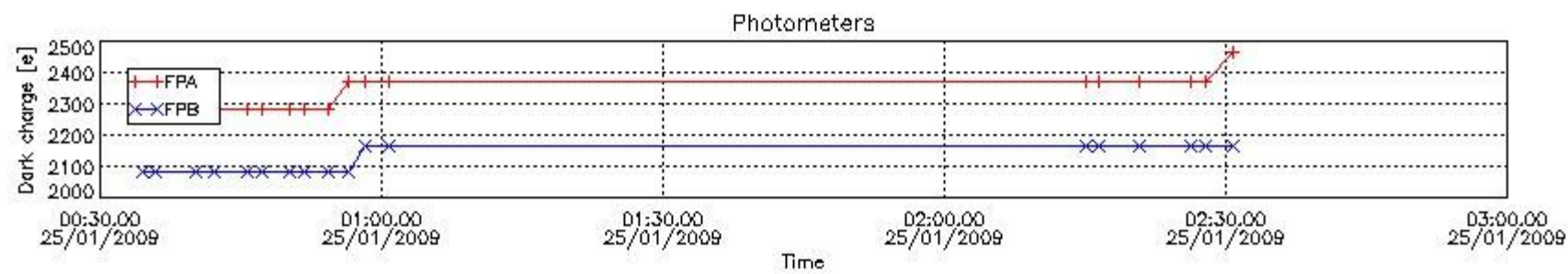
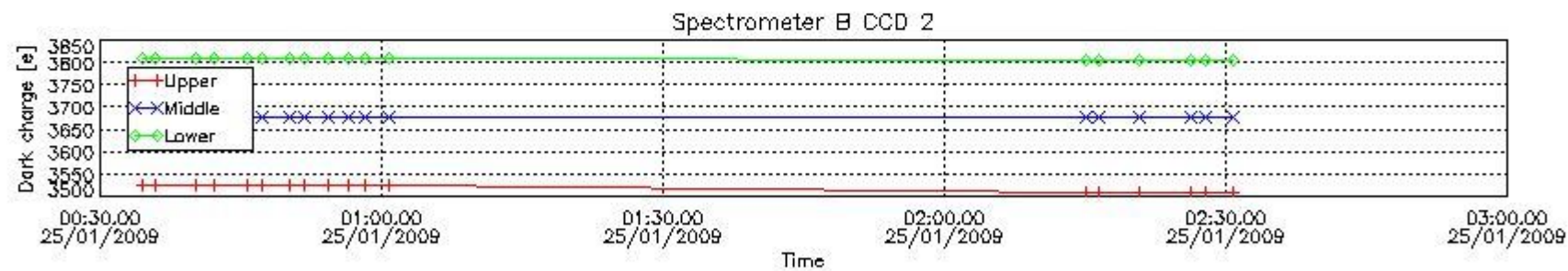
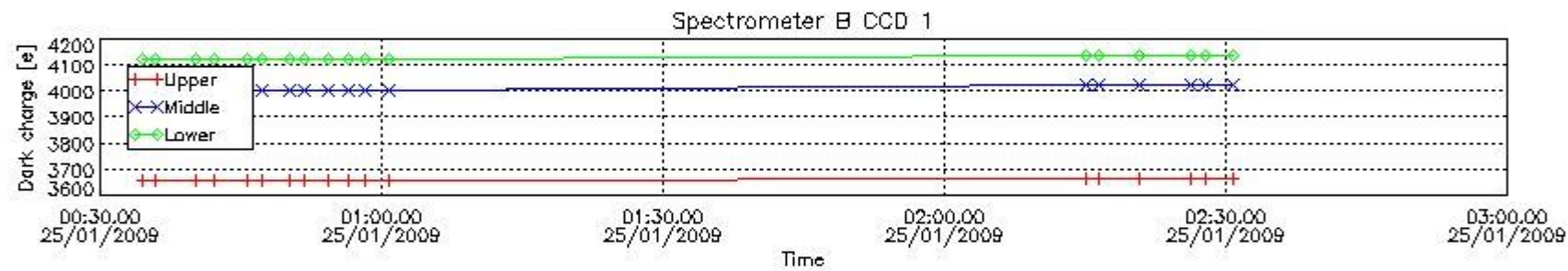
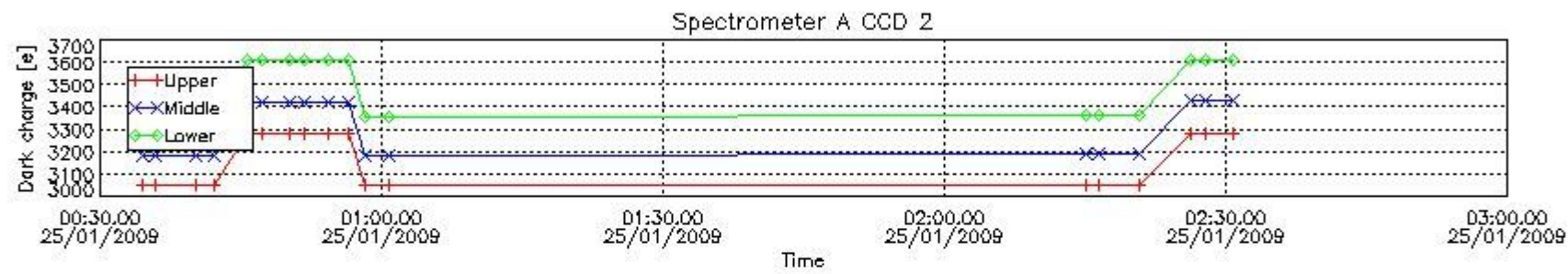
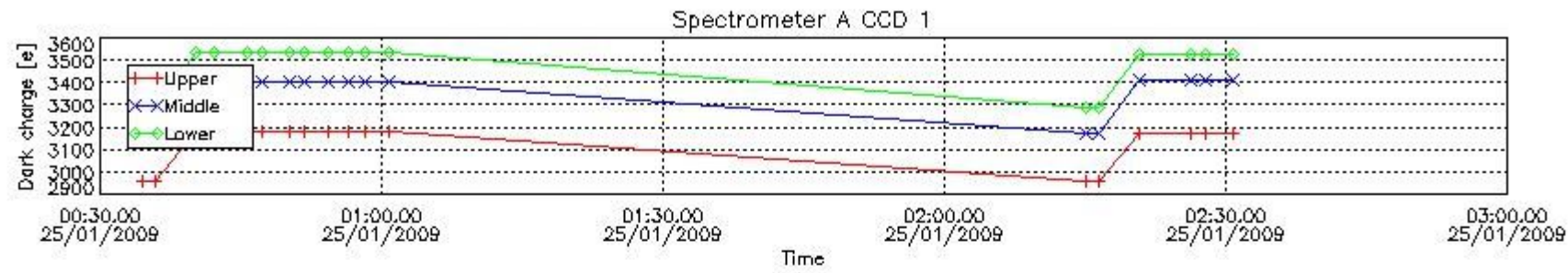
#### 4. Overview of dark signal processing per product

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



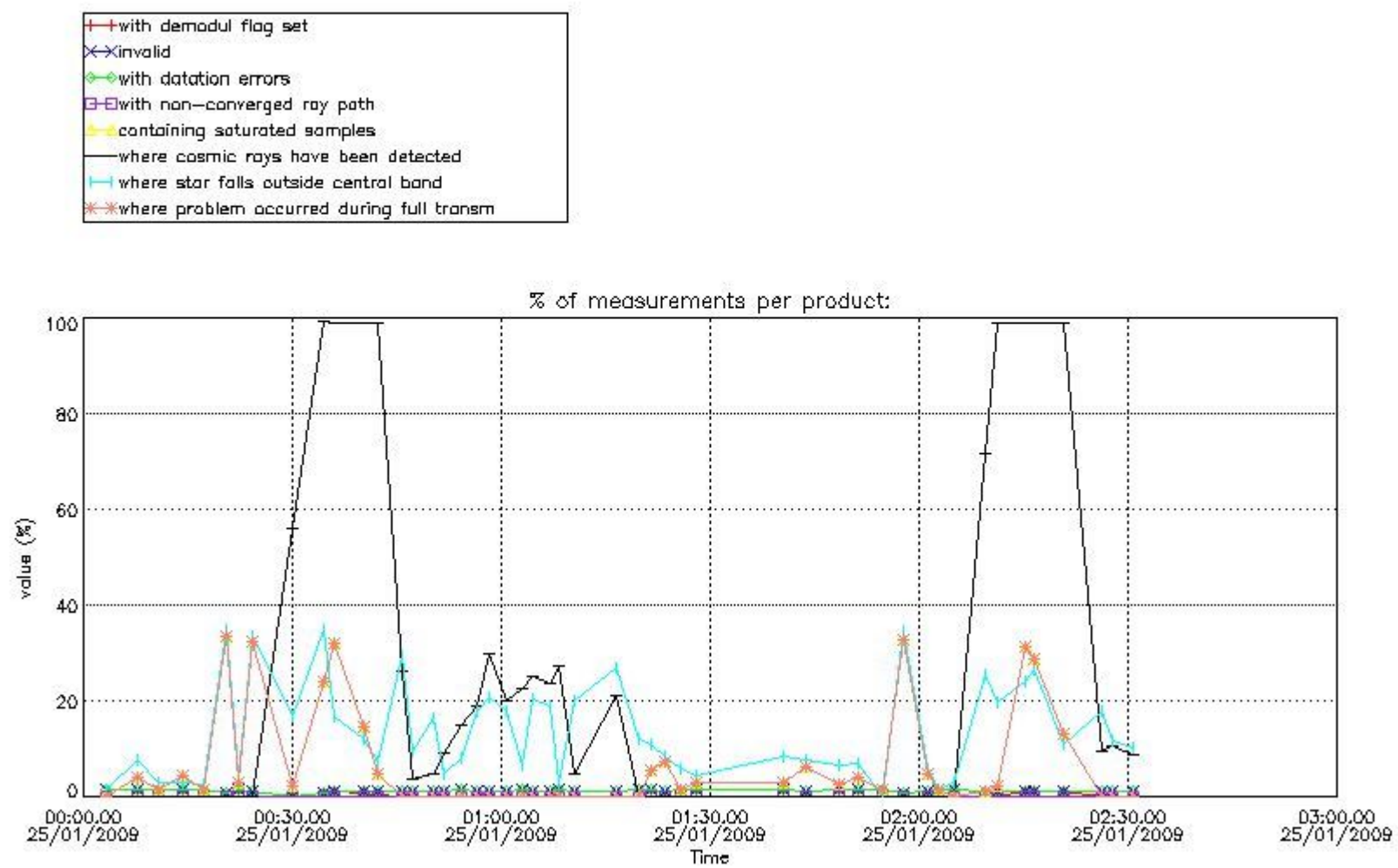
## 5. Demodulation flag and quality information monitoring

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:

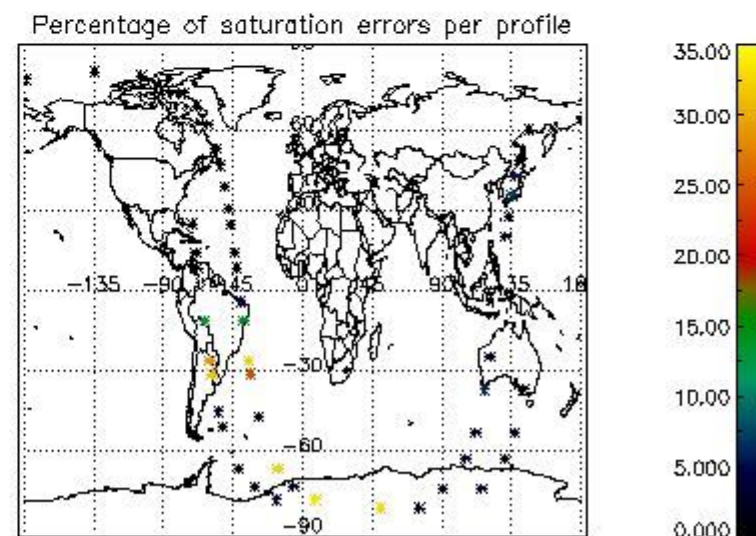
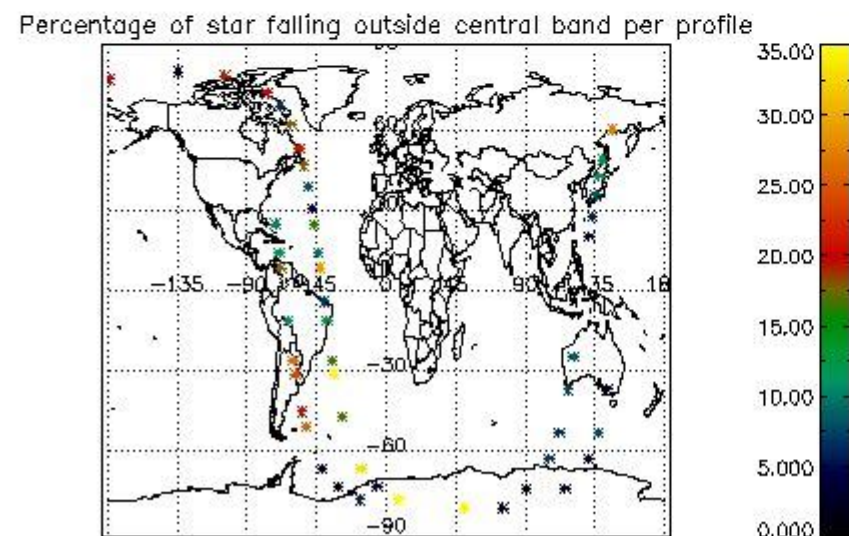
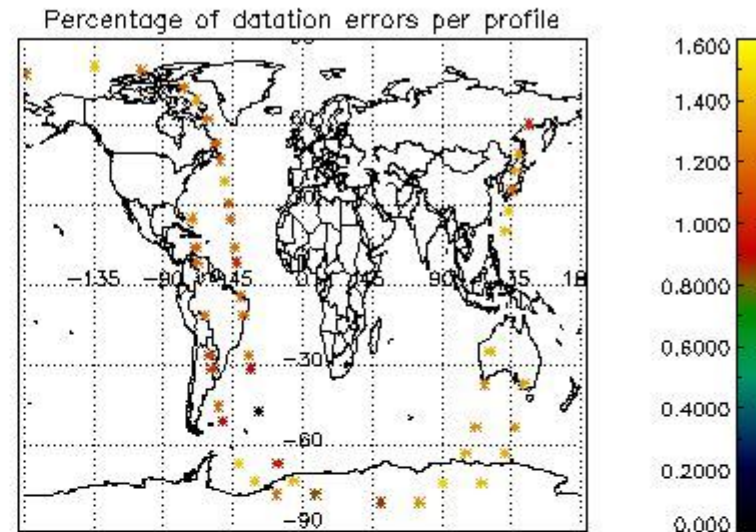
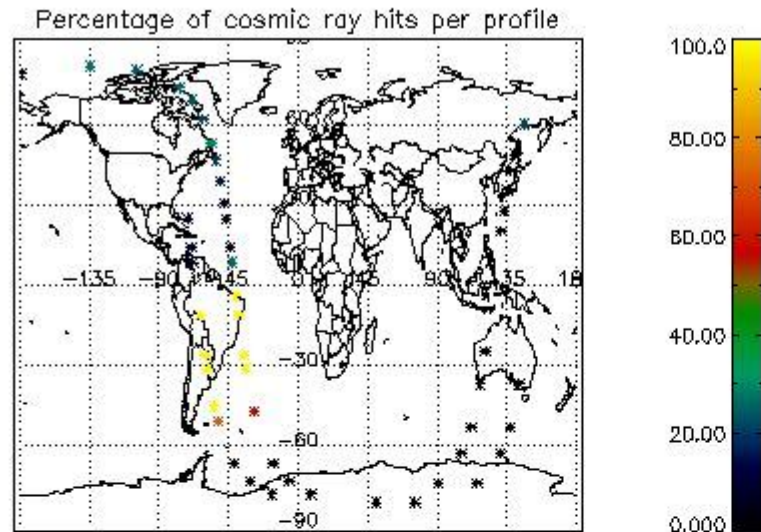
At least one measurement with demodulation flag set:	28.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

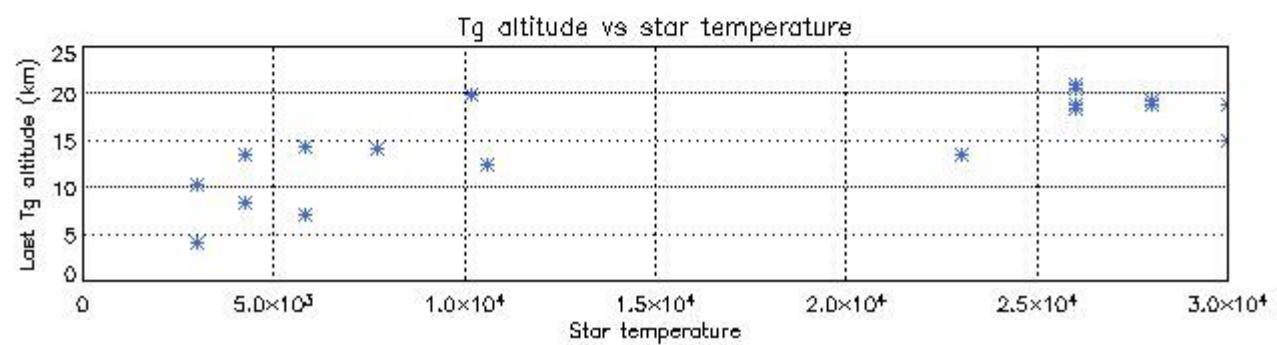
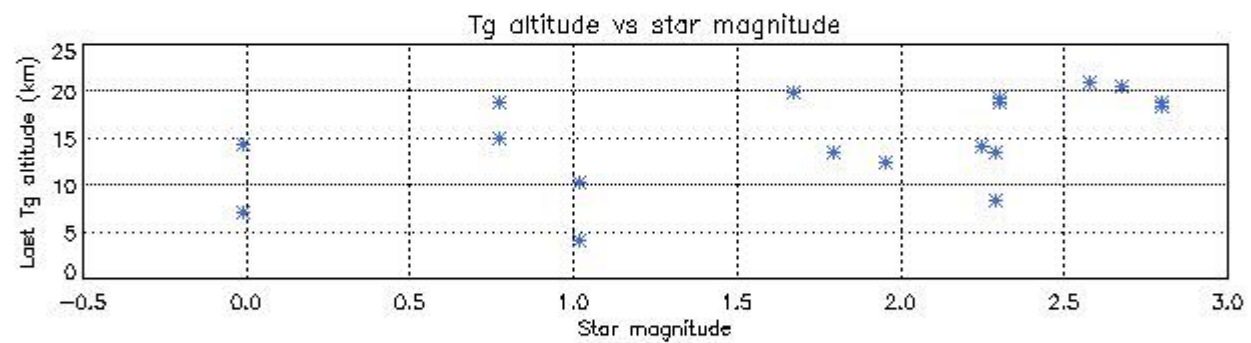
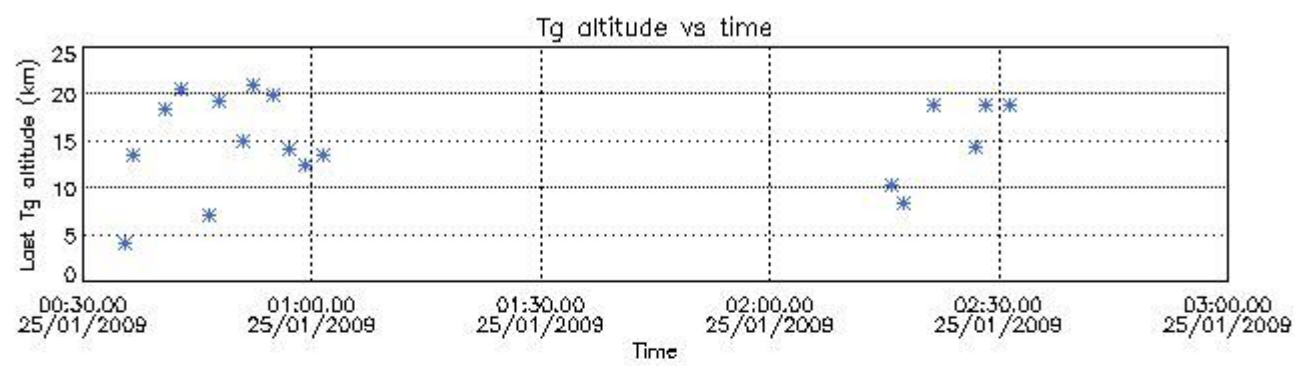
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.871	18.685	NaN
St. deviation:	5.0076	6.1978	NaN
Maximum:	20.982	24.313	NaN
Minimum:	4.0692	4.5444	NaN
Number of data:	18.000	23.000	NaN

### 6.2 Plot for DARK limb products

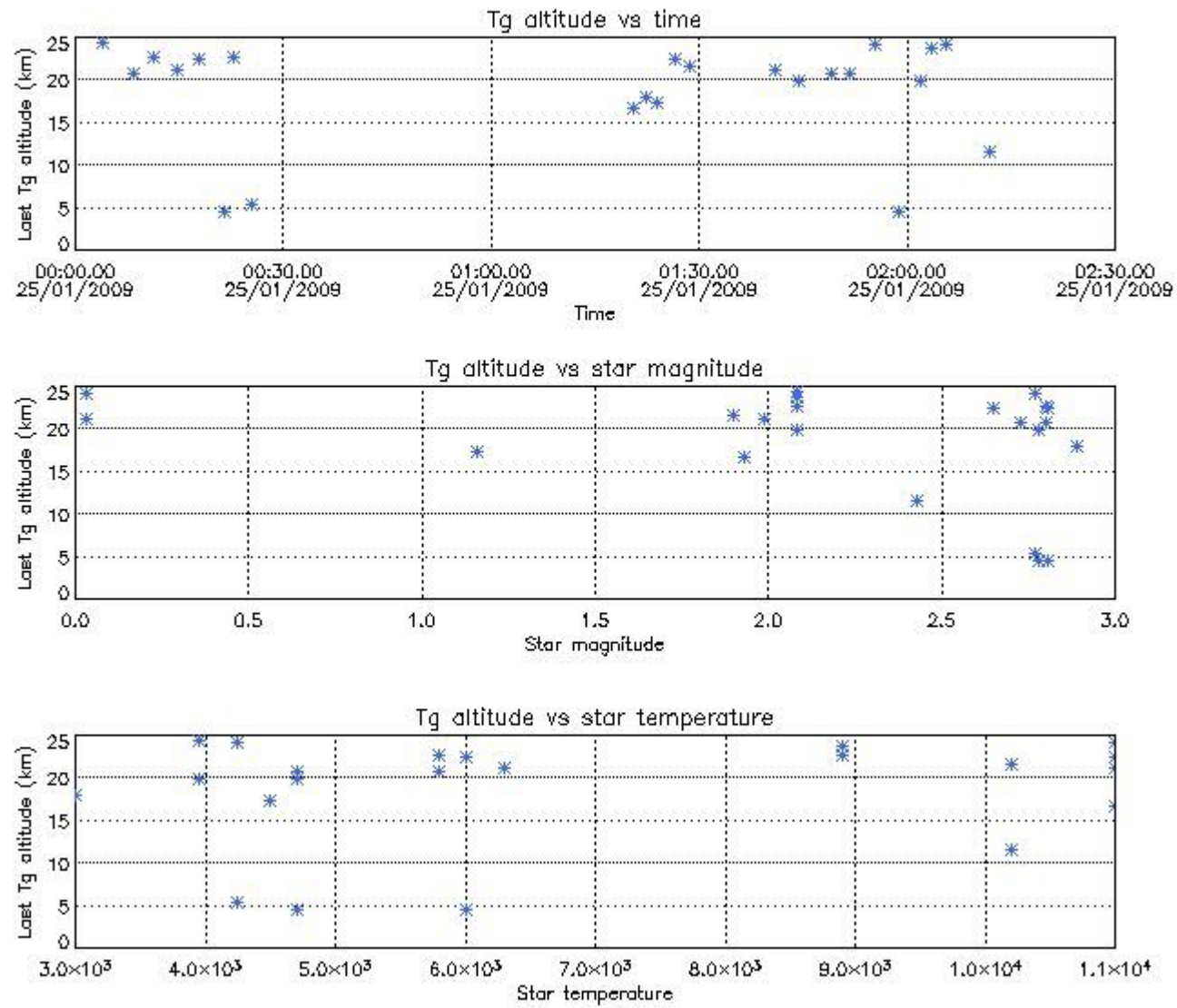


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

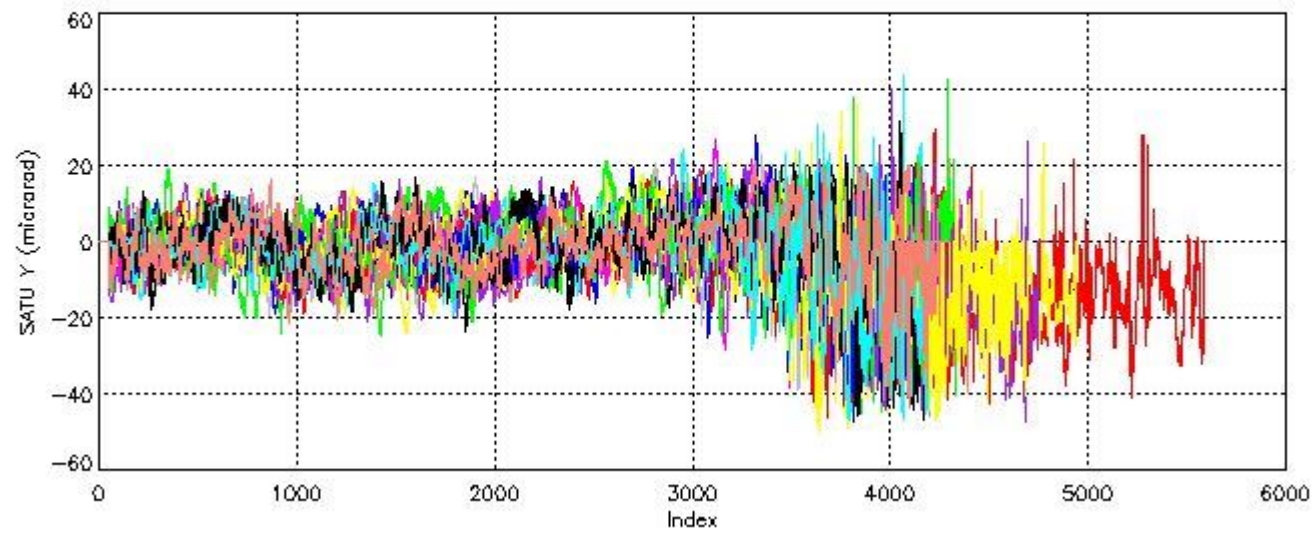
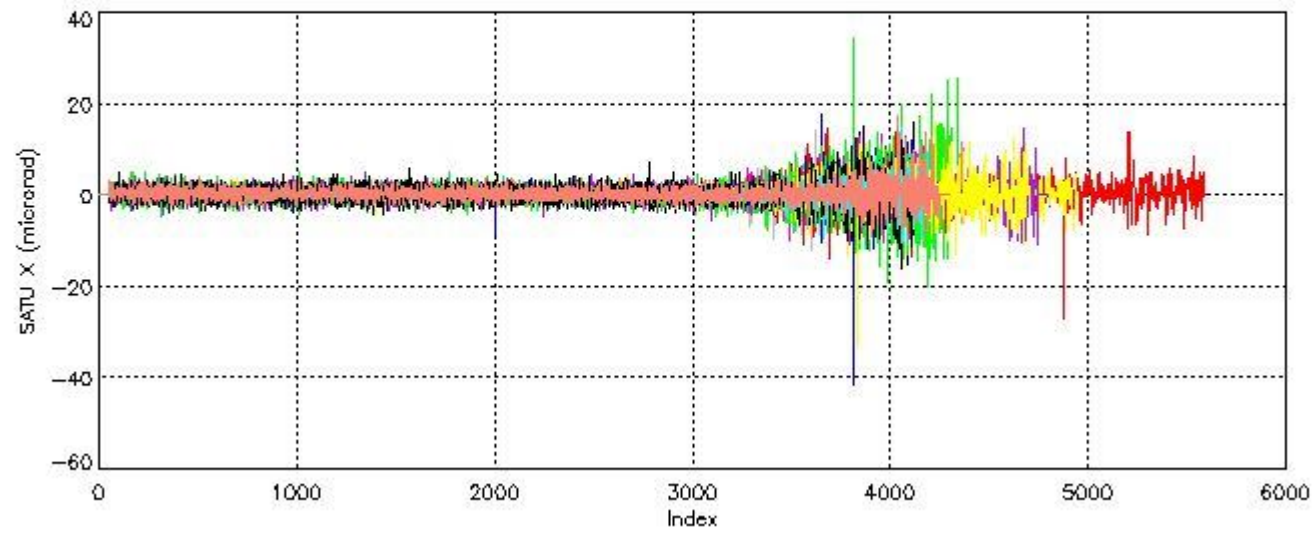


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15697	-0.20055	0.051468	-1.4454
St. deviation:	0.62727	5.1538	0.70816	6.1136
Maximum:	5.0000	16.500	4.5000	19.000
Minimum:	-4.6000	-24.400	-8.8000	-23.800



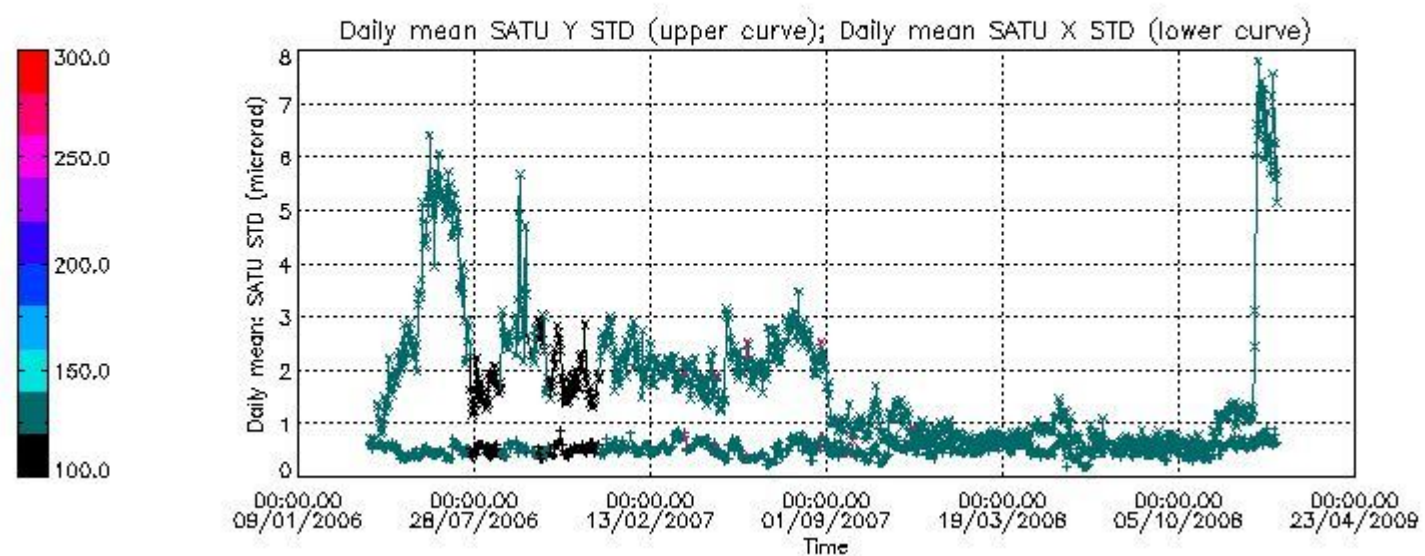
Number of data:	17050.	17050.	20650.	20650.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

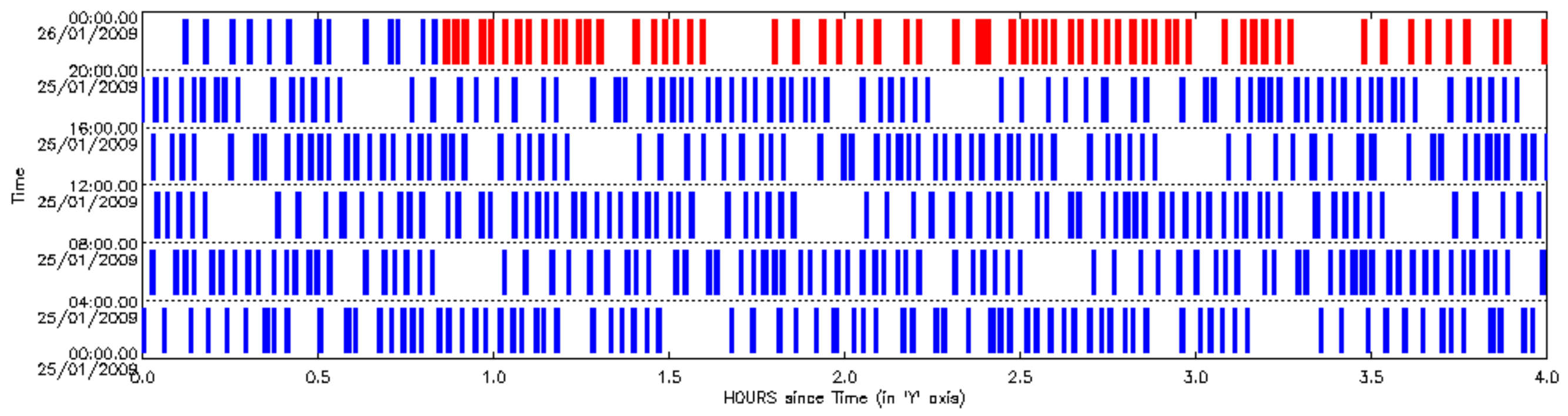
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

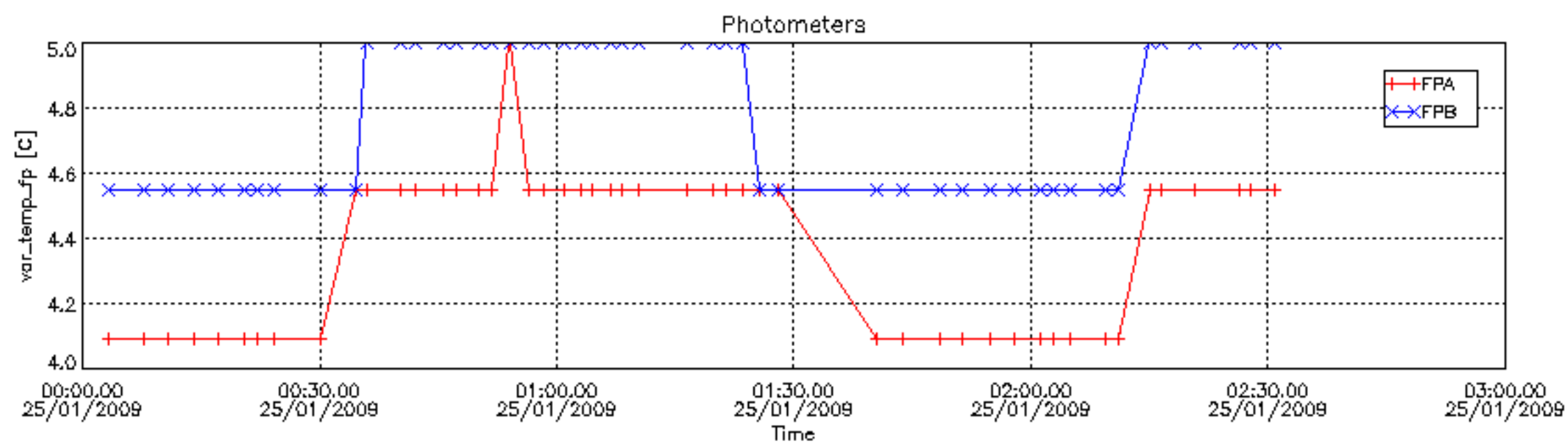
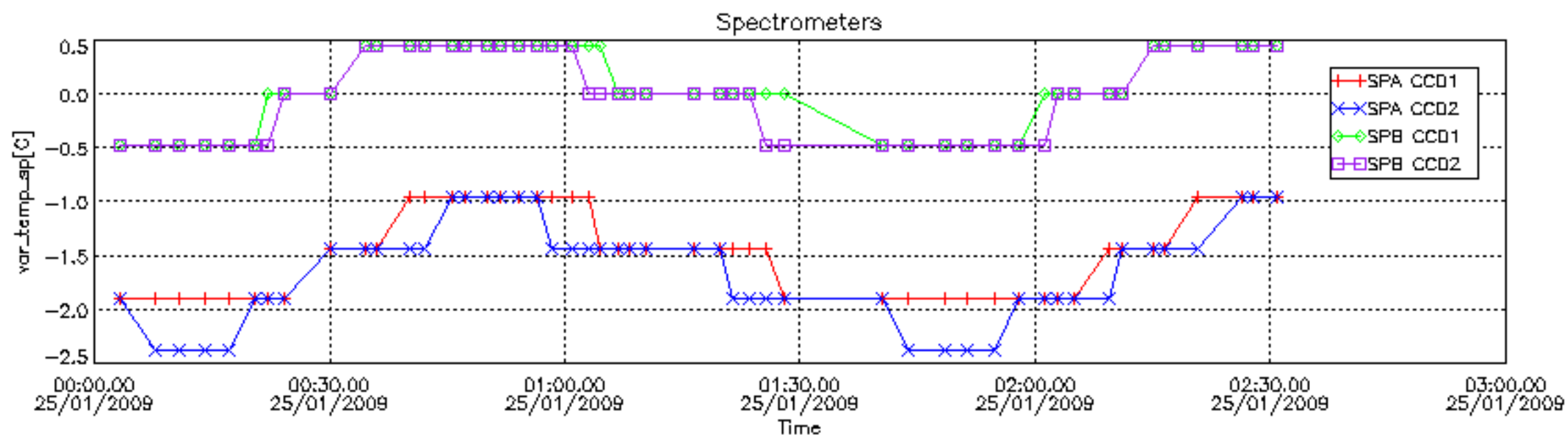


### 8. Auxiliary Data Files used for the production reported in section 2.4

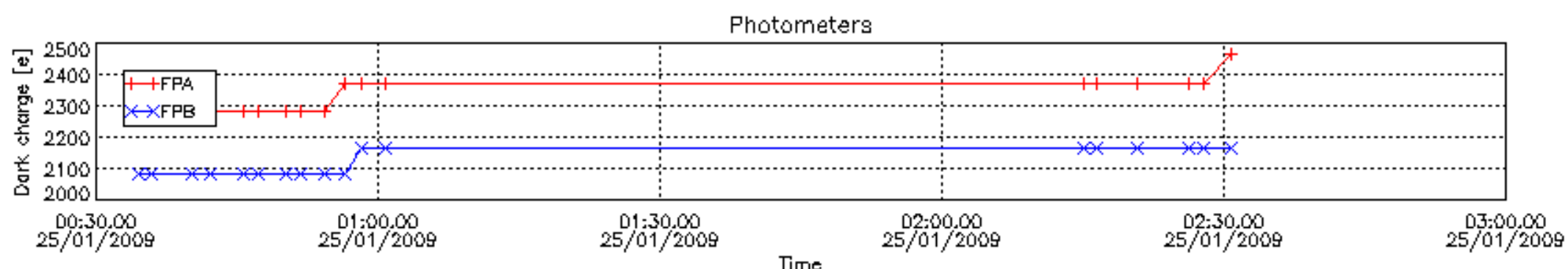
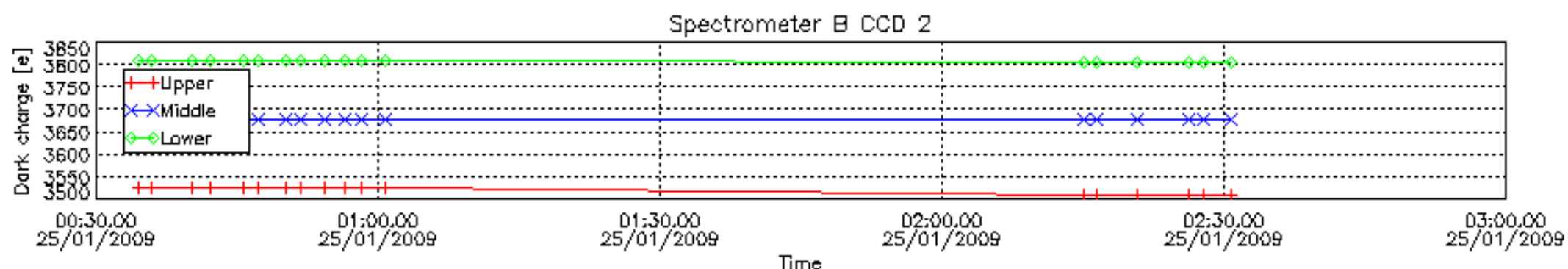
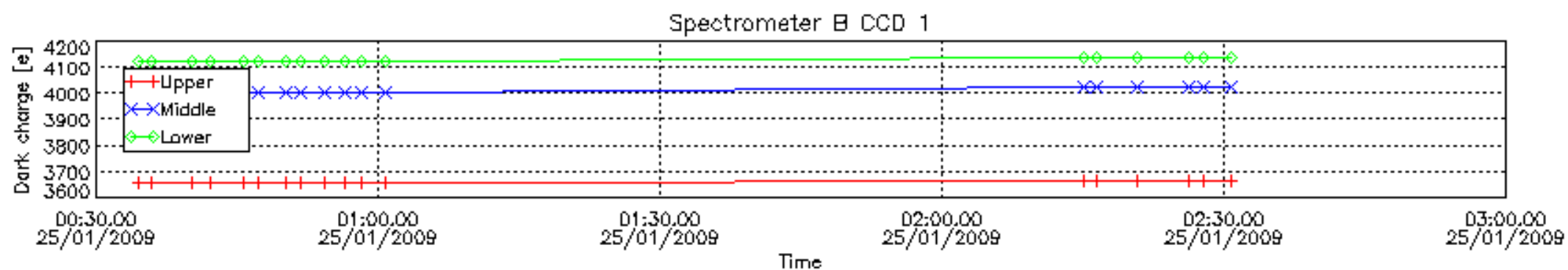
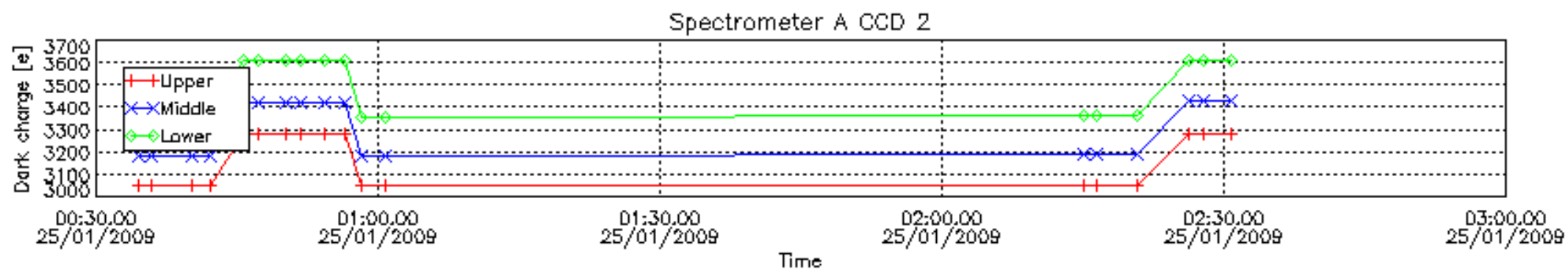
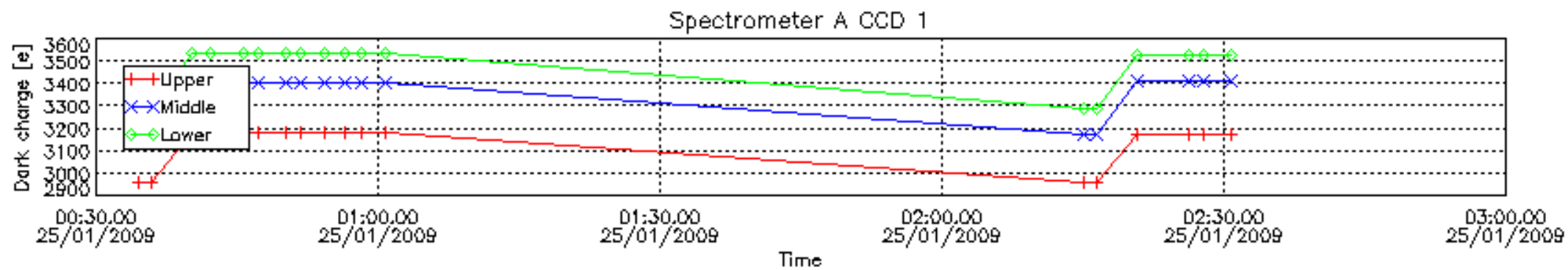
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

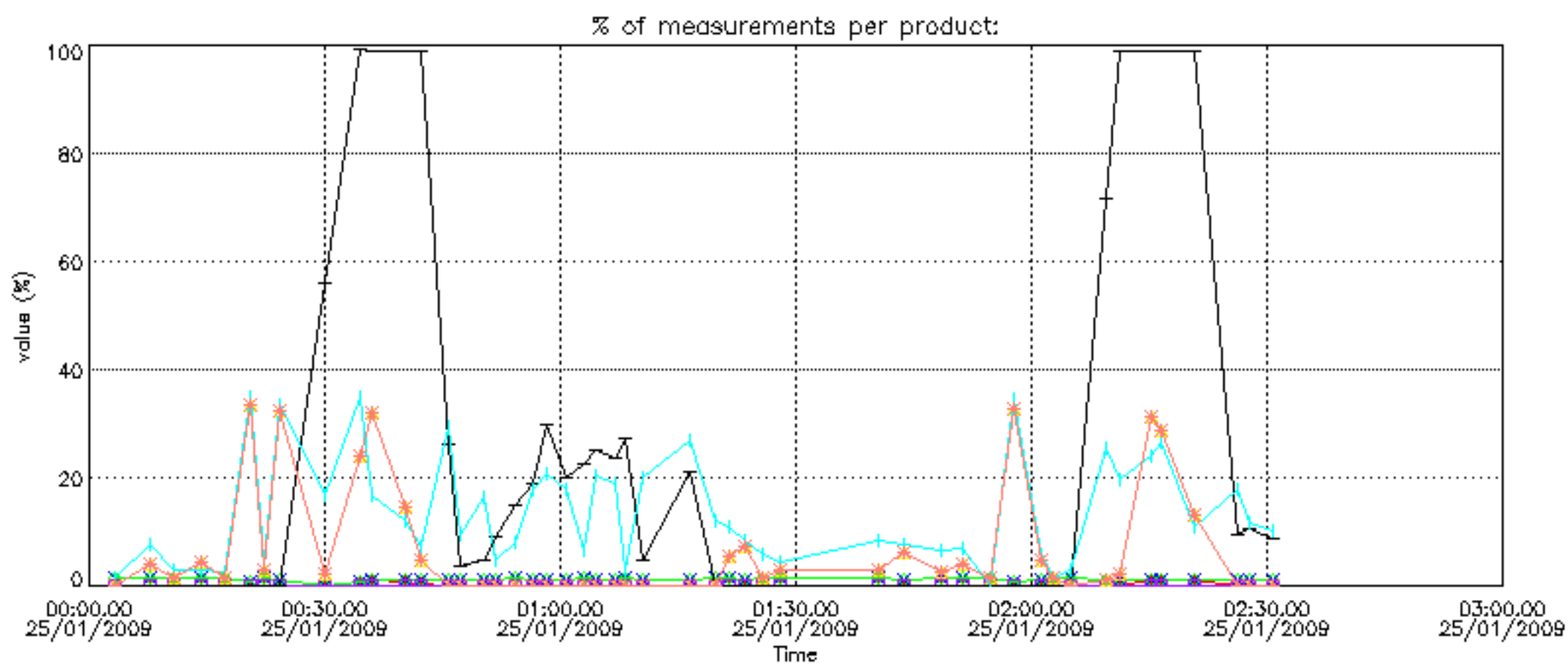
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	25-JAN-2009 00:03:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-JAN-2009 00:03:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-JAN-2009 00:03:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-JAN-2009 00:03:15
ECMWF_FILE	AUX_ECF_AXNECM20090124_132114_20090124_210000_20090125_090000	1	25-JAN-2009 00:03:15
ECMWF_FILE	AUX_ECF_AXNECM20090124_182123_20090124_210000_20090125_090000	10	25-JAN-2009 00:34:31
ECMWF_FILE	AUX_ECF_AXNECM20090125_024112_20090124_210000_20090125_090000	42	25-JAN-2009 02:09:28
OPTIONAL_ECMWF_FILE	MISSING	1	25-JAN-2009 00:03:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090124_210119_000060572075_00472_36097_7230.N1	1	25-JAN-2009 00:03:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090124_224735_000057382075_00473_36098_7231.N1	10	25-JAN-2009 00:34:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090125_002832_000054192075_00474_36099_7232.N1	42	25-JAN-2009 02:09:28



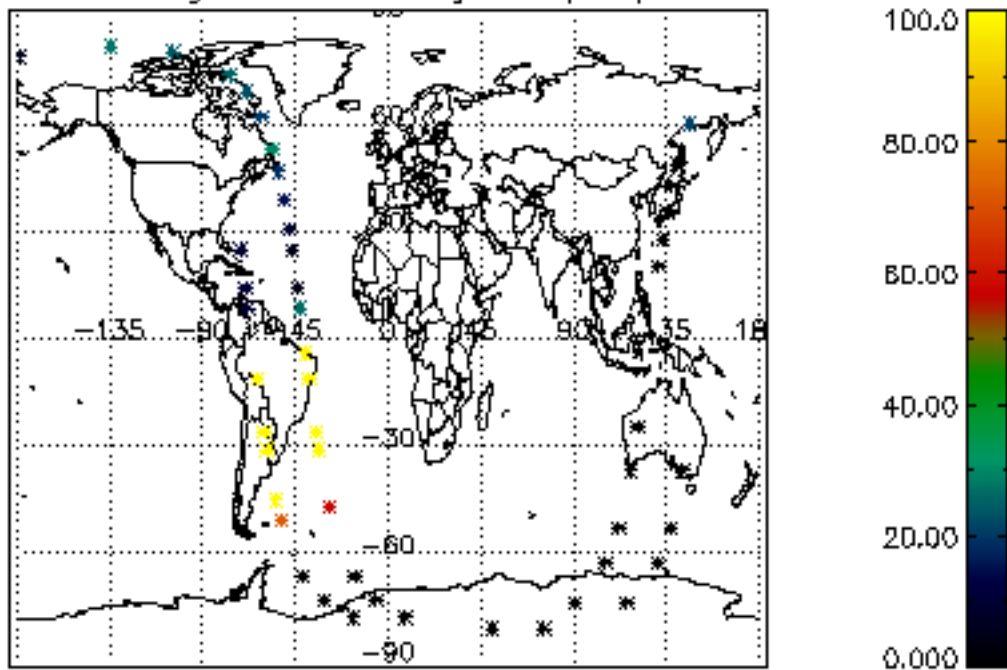




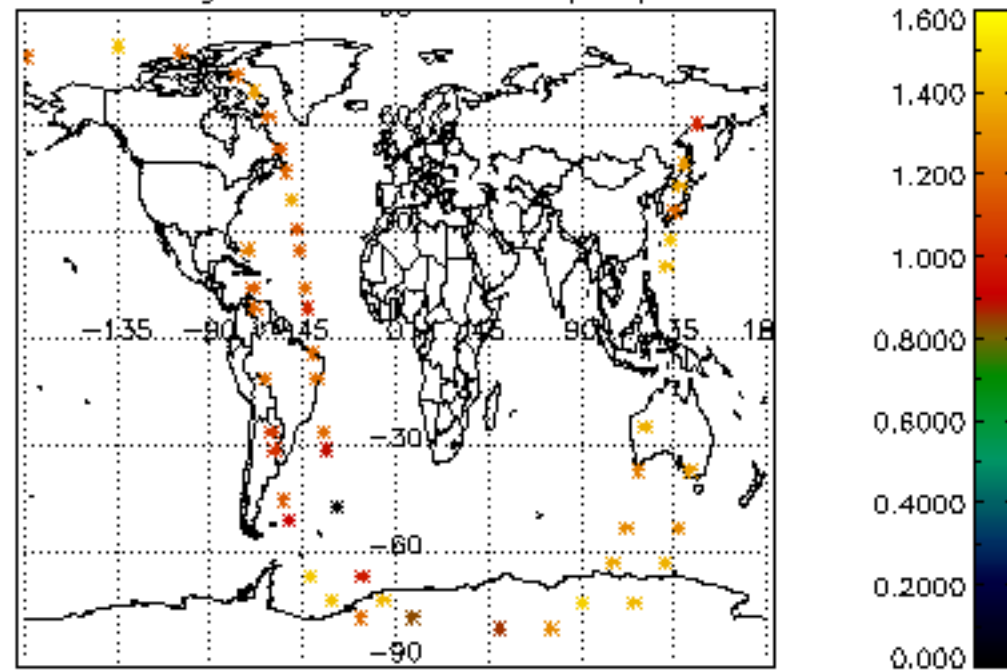




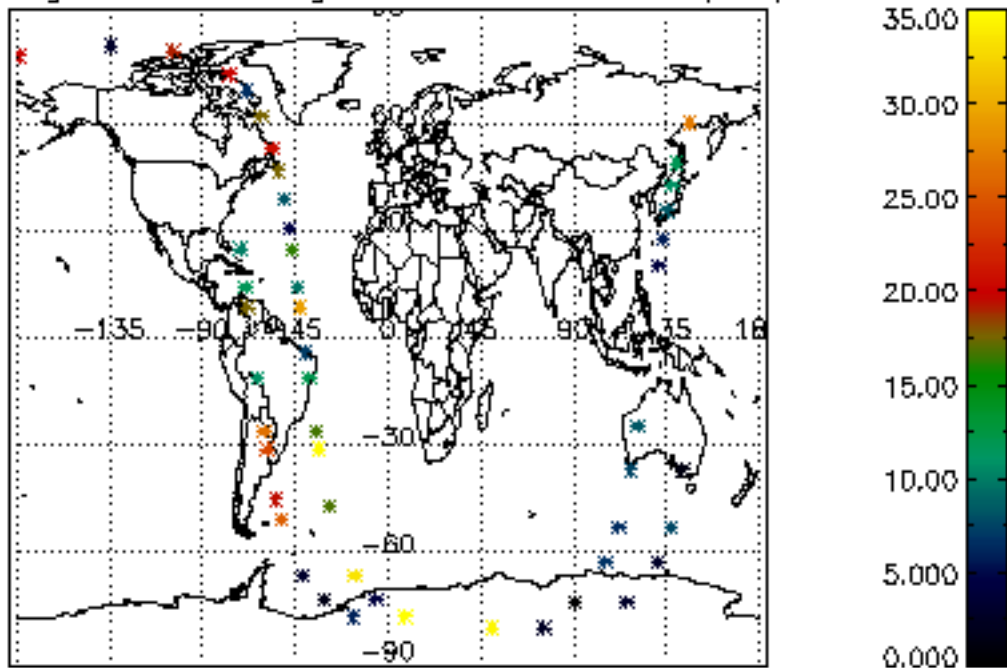
Percentage of cosmic ray hits per profile



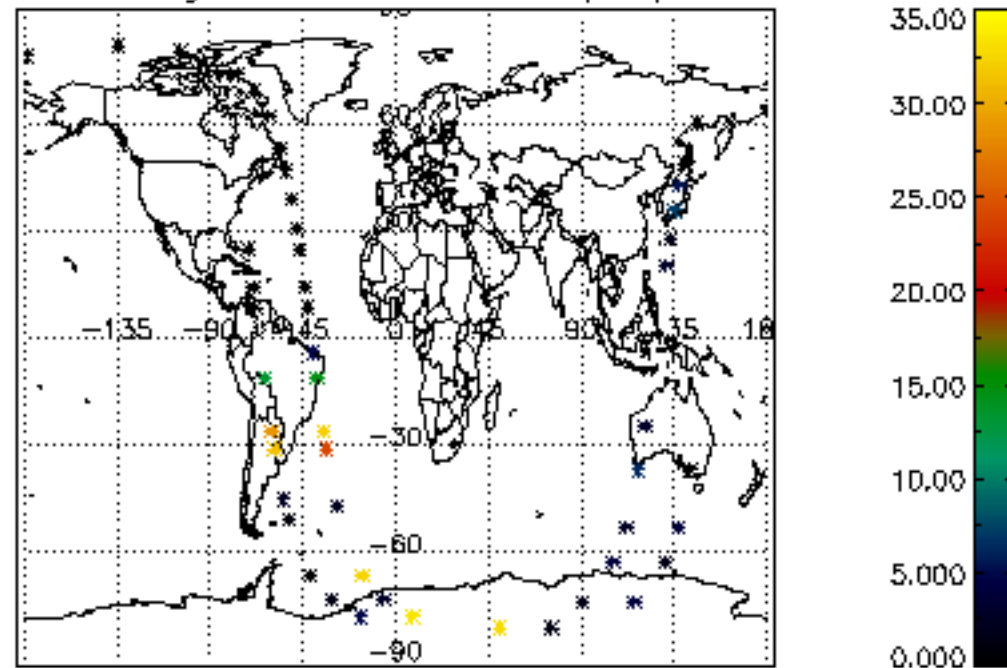
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

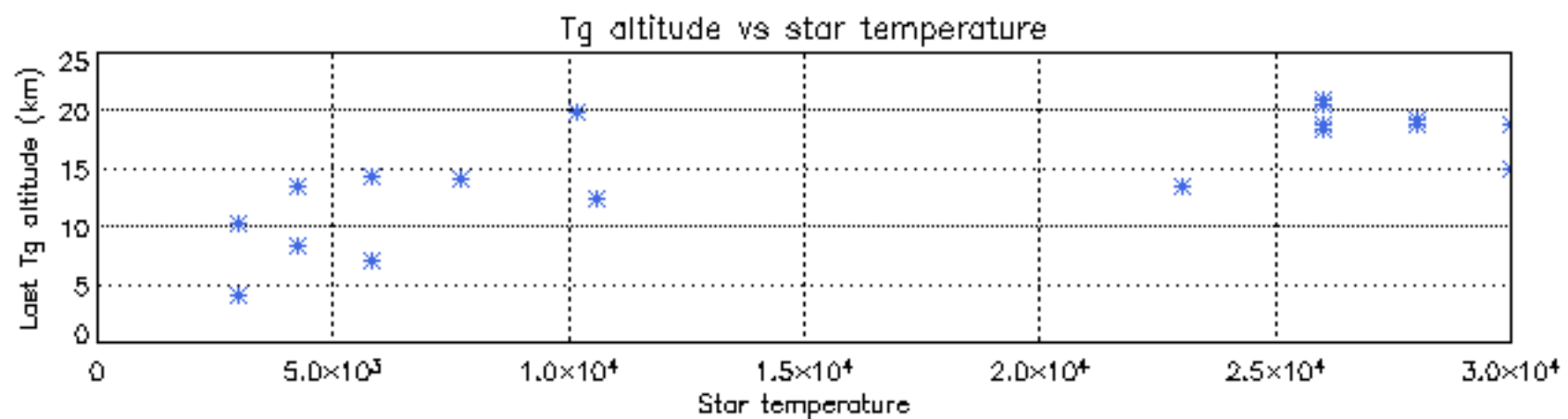
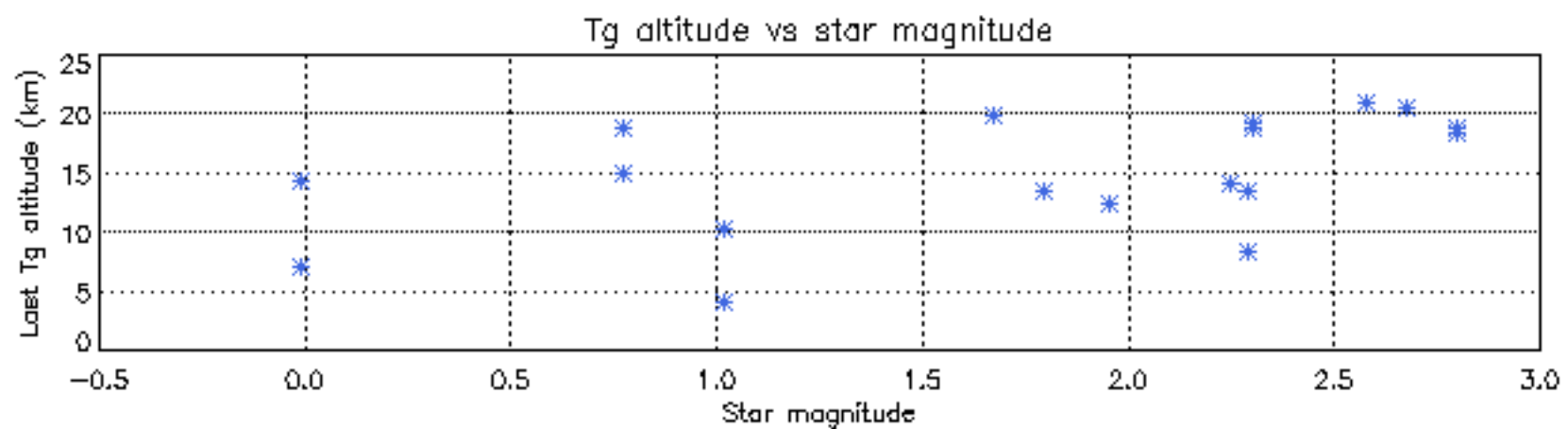
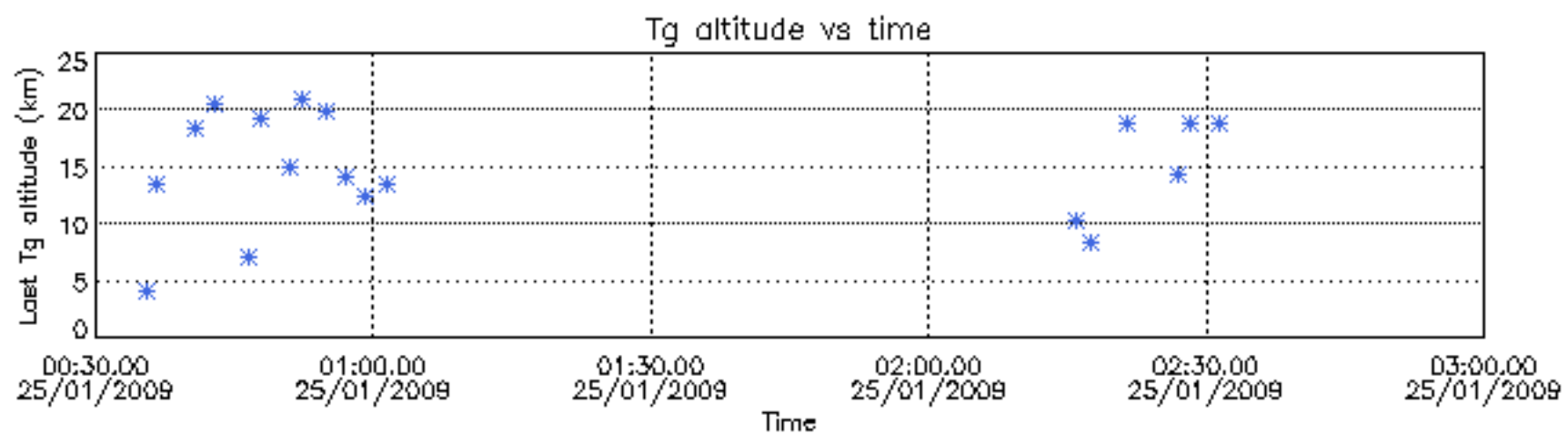


Percentage of saturation errors per profile

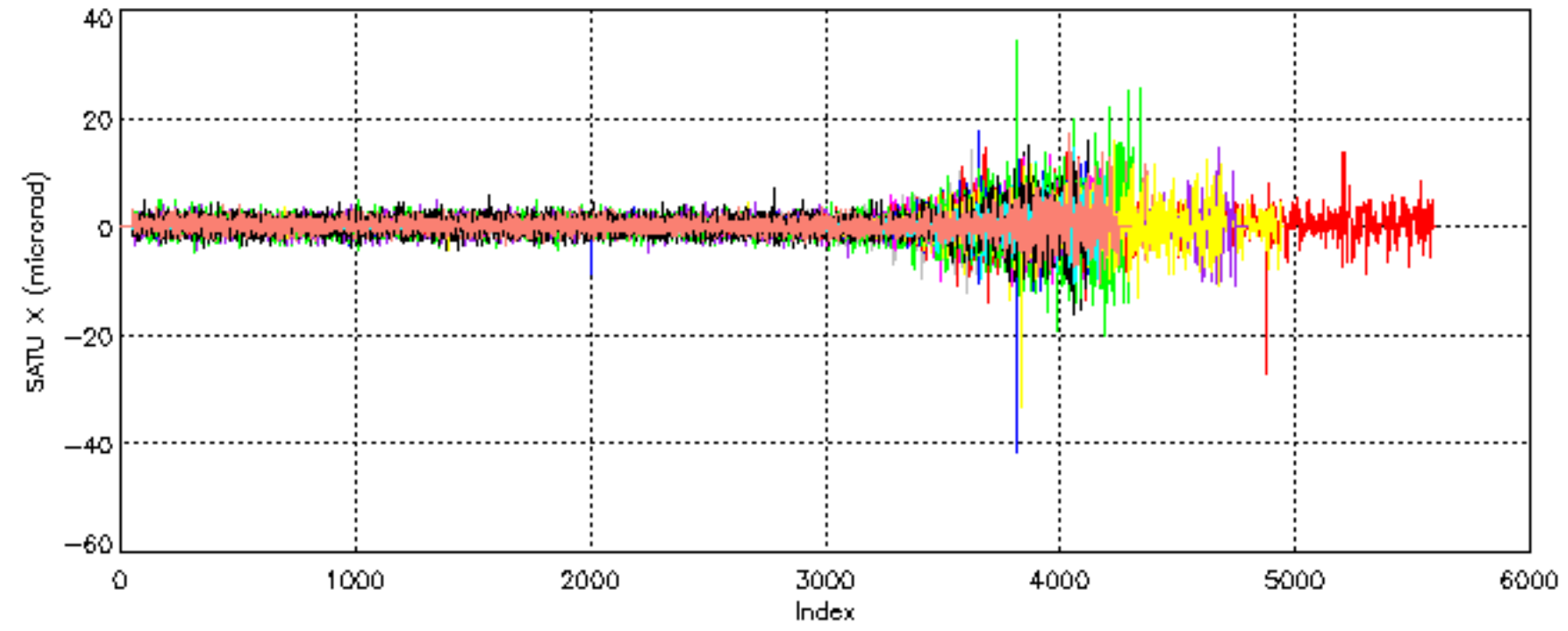




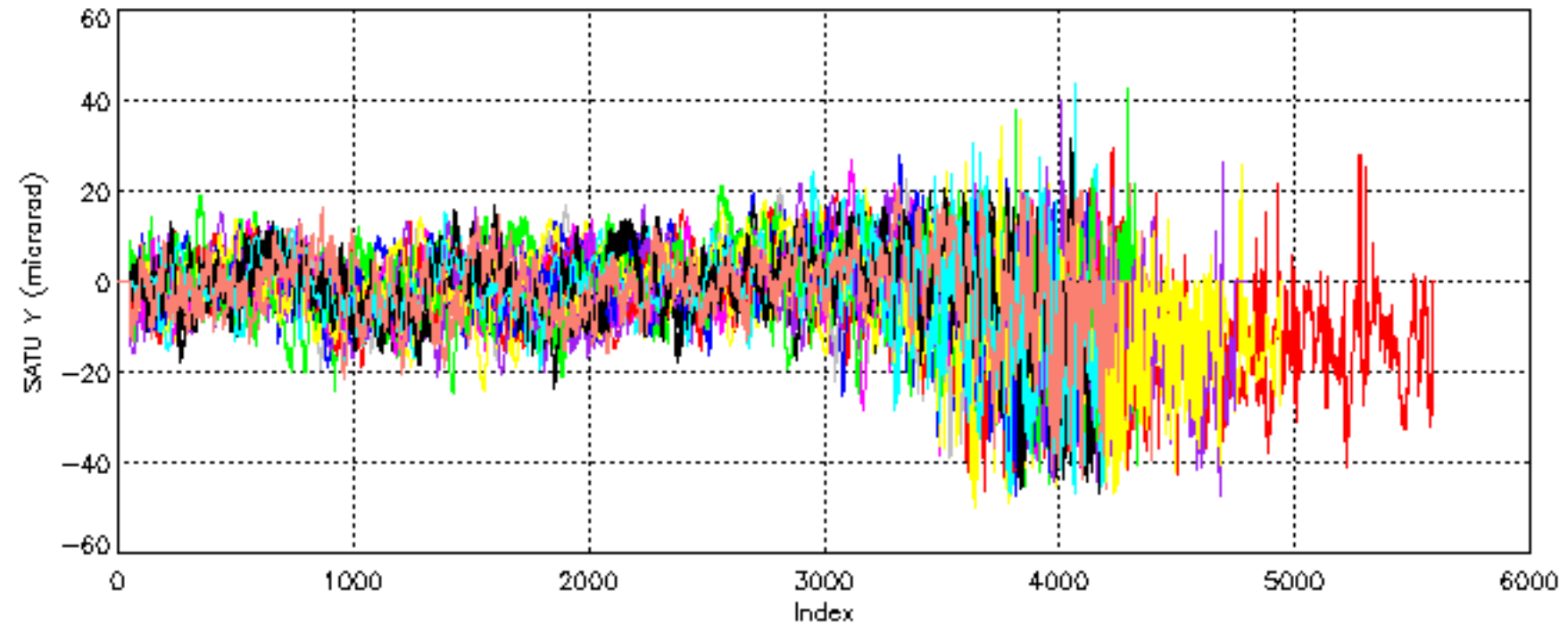
Tangent altitude at which the star is lost

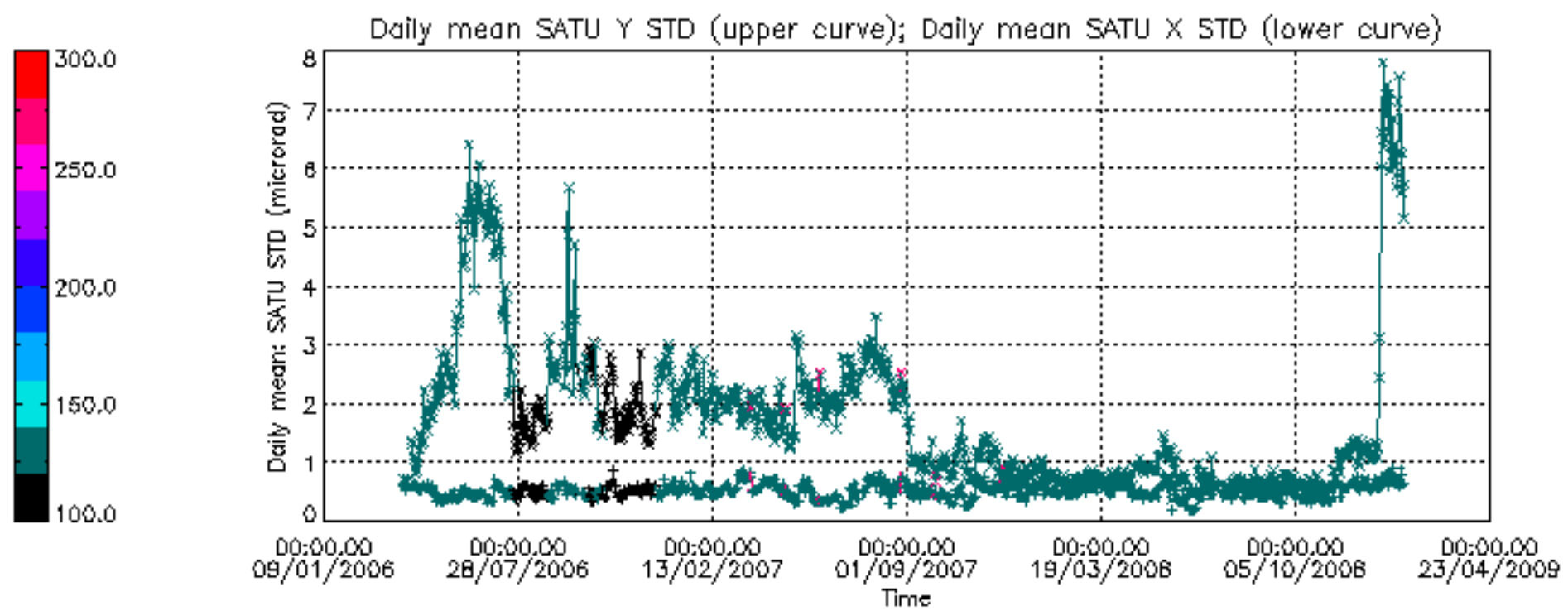












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13; 549.8; 01-JAN-2009 06:48:52; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35760
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9; -651.2; 04-JAN-2009 06:34:36; Dark ; 48.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 97; 0;35802  
10; -342.3; 04-JAN-2009 06:39:45; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;35802  
11; -257.3; 04-JAN-2009 06:41:10; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35802  
12; -167.3; 04-JAN-2009 06:42:40; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;35802  
13; -71.4; 04-JAN-2009 06:44:16; Dark ; 37.5; 95; Zet Cen ; 2.55; 26000;occ; 75; 0;35802  
14; 15.7; 04-JAN-2009 06:45:43; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;35803  
15; 148.0; 04-JAN-2009 06:47:55; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;35803  
16; 256.8; 04-JAN-2009 06:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803  
17; 456.7; 04-JAN-2009 06:53:04; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35803  
18; 565.3; 04-JAN-2009 06:54:52; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;35803  
19; 657.5; 04-JAN-2009 06:56:25; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;35803  
20; 747.7; 04-JAN-2009 06:57:55; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;35803  
21; 992.1; 04-JAN-2009 07:01:59; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;35803  
22; 1190.7; 04-JAN-2009 07:05:18; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35803  
23; 1354.5; 04-JAN-2009 07:08:02; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803  
24; 1444.6; 04-JAN-2009 07:09:32; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35803

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3; 1777.4; 04-JAN-2009 07:15:04; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;35803  
4; 1885.5; 04-JAN-2009 07:16:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35803  
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6; 2268.9; 04-JAN-2009 07:23:16; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;35803  
7; 2396.0; 04-JAN-2009 07:25:23; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;35803  
8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803  
9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803  
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11; 3423.5; 04-JAN-2009 07:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35803  
12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803  
13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803  
14; 4056.5; 04-JAN-2009 07:53:04; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;35803  
15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803  
16; 4555.2; 04-JAN-2009 08:01:22; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35803  
17; 4906.8; 04-JAN-2009 08:07:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;35803  
18; 5043.0; 04-JAN-2009 08:09:30; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35803  
19; 5218.9; 04-JAN-2009 08:12:26; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35803  
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21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803  
22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803  
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803  
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25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;35803  
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803  
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803  
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803  
29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803  
30; 6693.5; 04-JAN-2009 08:37:01; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35803  
31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803  
32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;35803  
33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803  
34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803  
35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps Cma ; 1.50; 26000;occ; 92; 0;35803  
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803  
37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp Cma ; -1.44; 11000;occ; 96; 0;35803  
38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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3; 2030.8; 04-JAN-2009 08:59:54; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;35804  
4; 2267.9; 04-JAN-2009 09:03:51; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;35804  
5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804  
6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804  
7; 2555.3; 04-JAN-2009 09:08:38; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35804  
8; 2689.5; 04-JAN-2009 09:10:52; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35804  
9; 3423.9; 04-JAN-2009 09:23:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35804  
10; 3685.3; 04-JAN-2009 09:27:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35804  
11; 3923.7; 04-JAN-2009 09:31:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35804

12; 4056.8; 04-JAN-2009 09:33:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;35804  
 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804  
 14; 4555.8; 04-JAN-2009 09:41:59; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35804  
 15; 4906.6; 04-JAN-2009 09:47:50; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35804  
 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804  
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804  
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804  
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804  
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804  
 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804  
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804  
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804  
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804  
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804  
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804  
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804  
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804  
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804  
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;35804  
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804  
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804  
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804  
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804  
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

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 2; 1778.0; 04-JAN-2009 10:36:17; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35805  
 3; 1885.6; 04-JAN-2009 10:38:04; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35805  
 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805  
 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805  
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805  
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805  
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805  
 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805  
 10; 3423.8; 04-JAN-2009 11:03:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;35805  
 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805  
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805  
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805  
 14; 4430.3; 04-JAN-2009 11:20:29; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;35805  
 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805  
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805  
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805  
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805  
 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805  
 20; 5695.0; 04-JAN-2009 11:41:34; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;35805  
 21; 5780.7; 04-JAN-2009 11:43:00; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35805  
 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805  
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805  
 24; 6052.7; 04-JAN-2009 11:47:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35805  
 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805  
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805  
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805  
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805  
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805  
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805  
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805  
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805  
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805  
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805  
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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1; 1488.5; 04-JAN-2009 12:12:03; Dark ; 0.0; 179; 240mi2CMa ; 3.03; 24000;occ; 0; 86;35806  
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 4; 1885.0; 04-JAN-2009 12:18:40; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35806  
 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806  
 6; 2268.4; 04-JAN-2009 12:25:03; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;35806  
 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806



8; 2474.8; 04-JAN-2009 12:28:30; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35806  
9; 2555.1; 04-JAN-2009 12:29:50; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35806  
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13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806  
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19; 5220.2; 04-JAN-2009 13:14:15; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;35806  
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21; 5695.5; 04-JAN-2009 13:22:10; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;35806  
22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806  
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806  
24; 5967.2; 04-JAN-2009 13:26:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35806  
25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;35806  
26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806  
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806  
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806  
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806  
30; 6695.2; 04-JAN-2009 13:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;35806  
31; 6785.2; 04-JAN-2009 13:40:20; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;35806  
32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;35806  
33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806  
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 16; 5180.9; 15-JAN-2009 10:47:00; Bright; 51.0; 98; 13Zet Oph ; 2.57; 30000;occ; 102; 0;35962  
 17; 5448.2; 15-JAN-2009 10:51:27; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;35962  
 18; 5764.3; 15-JAN-2009 10:56:43; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;35962  
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 21; 6114.3; 15-JAN-2009 11:02:33; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35962  
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 23; 6572.3; 15-JAN-2009 11:10:11; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35962  
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 32; 7645.3; 15-JAN-2009 11:28:04; Dark ; 16.0; 1; 9Alp CMa ;-1.44; 11000;occ; 32; 0;35962

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 16; 5181.0; 15-JAN-2009 12:27:36; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;35963  
 17; 5449.5; 15-JAN-2009 12:32:04; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;35963  
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 22; 6378.3; 15-JAN-2009 12:47:33; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;35963  
 23; 6572.7; 15-JAN-2009 12:50:47; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35963  
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 31; 7511.5; 15-JAN-2009 13:06:26; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;35963  
 32; 7645.0; 15-JAN-2009 13:08:40; Dark ; 44.0; 1; 9Alp CMa ;-1.44; 11000;occ; 88; 0;35963

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 15; 5100.0; 15-JAN-2009 14:06:51; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;35964  
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 22; 6379.0; 15-JAN-2009 14:28:10; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;35964  
 23; 6573.7; 15-JAN-2009 14:31:24; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35964  
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 25; 6770.6; 15-JAN-2009 14:34:41; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;35964  
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 28; 7174.5; 15-JAN-2009 14:41:25; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35964  
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 22; 5996.2; 15-JAN-2009 16:02:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;35965  
 23; 6116.0; 15-JAN-2009 16:04:22; Dark ; 54.0; 4; Alp1Cen ; -0.01; 5800;occ; 108; 0;35965  
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 23; 6116.1; 15-JAN-2009 17:44:59; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;35966  
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 27; 6771.5; 15-JAN-2009 17:55:54; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35966  
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 30; 7174.8; 15-JAN-2009 18:02:37; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;35966

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20; 1995.4; 24-JAN-2009 21:55:19; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;36098  
21; 2188.0; 24-JAN-2009 21:58:32; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36098  
22; 2295.1; 24-JAN-2009 22:00:19; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;36098  
23; 2414.2; 24-JAN-2009 22:02:18; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36098  
24; 2549.5; 24-JAN-2009 22:04:33; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36098  
25; 2677.4; 24-JAN-2009 22:06:41; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36098  
26; 3426.8; 24-JAN-2009 22:19:11; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36098  
27; 3636.3; 24-JAN-2009 22:22:40; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36098  
28; 3910.4; 24-JAN-2009 22:27:14; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36098  
29; 4085.4; 24-JAN-2009 22:30:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36098  
30; 4289.7; 24-JAN-2009 22:33:34; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;36098  
31; 4473.2; 24-JAN-2009 22:36:37; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36098  
32; 4674.3; 24-JAN-2009 22:39:58; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36098  
33; 4771.4; 24-JAN-2009 22:41:35; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;36098  
34; 4898.3; 24-JAN-2009 22:43:42; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36098  
35; 5240.7; 24-JAN-2009 22:49:25; Dark ; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;36098

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1; -524.3; 24-JAN-2009 22:53:56; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;36098  
2; -439.6; 24-JAN-2009 22:55:20; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36098  
3; -189.1; 24-JAN-2009 22:59:31; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36098  
4; -66.7; 24-JAN-2009 23:01:33; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;36098  
5; 40.9; 24-JAN-2009 23:03:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36099  
6; 143.4; 24-JAN-2009 23:05:03; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36099  
7; 235.3; 24-JAN-2009 23:06:35; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36099  
8; 417.0; 24-JAN-2009 23:09:37; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36099  
9; 511.8; 24-JAN-2009 23:11:12; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36099  
10; 657.8; 24-JAN-2009 23:13:38; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;36099



11; 789.6; 24-JAN-2009 23:15:49; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36099  
 12; 897.7; 24-JAN-2009 23:17:37; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36099  
 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099  
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099  
 15; 1269.2; 24-JAN-2009 23:23:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;36099  
 16; 1416.6; 24-JAN-2009 23:26:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36099  
 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099  
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099  
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099  
 20; 2188.5; 24-JAN-2009 23:39:08; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36099  
 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099  
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099  
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099  
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099  
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMI ; 1.99; 6300;occ; 72; 0;36099  
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMI ; 2.08; 3950;occ; 75; 0;36099  
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099  
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099  
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099  
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099  
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099  
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099  
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099  
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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1; -2397.6; 24-JAN-2009 07:17:19; Bright; 38.5; 60; 7Bet UMI ; 2.08; 3950;occ; 77; 0;36089  
 2; -2124.2; 24-JAN-2009 07:21:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;36089  
 3; -1950.6; 24-JAN-2009 07:24:46; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36089  
 4; -1564.0; 24-JAN-2009 07:31:13; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;36089  
 5; -1363.8; 24-JAN-2009 07:34:33; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36089  
 6; -1266.8; 24-JAN-2009 07:36:10; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;36089  
 7; -1140.1; 24-JAN-2009 07:38:16; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36089  
 8; -799.5; 24-JAN-2009 07:43:57; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36089  
 9; -529.1; 24-JAN-2009 07:48:27; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;36089  
 10; -443.0; 24-JAN-2009 07:49:54; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36089  
 11; -195.3; 24-JAN-2009 07:54:01; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;36089  
 12; -74.2; 24-JAN-2009 07:56:02; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36089  
 13; 35.1; 24-JAN-2009 07:57:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 14; 138.8; 24-JAN-2009 07:59:35; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;36090  
 15; 228.6; 24-JAN-2009 08:01:05; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36090  
 16; 412.2; 24-JAN-2009 08:04:09; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;36090  
 17; 504.8; 24-JAN-2009 08:05:41; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;36090  
 18; 655.5; 24-JAN-2009 08:08:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36090  
 19; 786.0; 24-JAN-2009 08:10:23; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36090  
 20; 894.4; 24-JAN-2009 08:12:11; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36090  
 21; 1050.9; 24-JAN-2009 08:14:47; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;36090  
 22; 1177.2; 24-JAN-2009 08:16:54; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36090  
 23; 1267.3; 24-JAN-2009 08:18:24; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36090  
 24; 1415.1; 24-JAN-2009 08:20:52; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36090  
 25; 1498.1; 24-JAN-2009 08:22:15; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090  
 26; 1628.4; 24-JAN-2009 08:24:25; Dark ; 27.5; 1; 9Alp CMA ; -1.44; 11000;occ; 55; 0;36090

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1; 1628.4; 24-JAN-2009 08:24:25; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;36090  
 2; 1996.2; 24-JAN-2009 08:30:33; Dark ; 47.0; 8; 10Alp CMI ; 0.40; 6500;occ; 94; 0;36090  
 3; 2187.8; 24-JAN-2009 08:33:44; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36090  
 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090  
 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090  
 6; 2548.5; 24-JAN-2009 08:39:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36090  
 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090  
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMI ; 1.99; 6300;occ; 73; 0;36090  
 9; 3638.2; 24-JAN-2009 08:57:55; Bright; 40.5; 60; 7Bet UMI ; 2.08; 3950;occ; 81; 0;36090  
 10; 3911.6; 24-JAN-2009 09:02:28; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;36090  
 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090  
 12; 4472.0; 24-JAN-2009 09:11:49; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36090  
 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090  
 14; 4769.2; 24-JAN-2009 09:16:46; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36090  
 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090  
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090  
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090  
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090  
 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090  
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090  
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090  
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090  
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090  
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090  
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090  
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090  
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090  
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090  
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090  
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090  
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36090  
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36090  
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;36090

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1; 1627.7; 24-JAN-2009 10:05:00; Dark ; 42.0; 1; 9Alp CMa ;-1.44; 11000;occ; 84; 0;36091  
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 3; 2187.8; 24-JAN-2009 10:14:20; Bright; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;36091  
 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091  
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091  
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091  
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091  
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 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091  
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 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091  
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091  
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 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091  
 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091  
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 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091  
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091  
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 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091  
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091  
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091  
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091  
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091  
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 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091  
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 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091  
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091  
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;36091  
 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36091

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 3; 1996.2; 24-JAN-2009 11:51:44; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;36092  
 4; 2188.3; 24-JAN-2009 11:54:57; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36092  
 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092  
 6; 2416.2; 24-JAN-2009 11:58:44; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36092  
 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092  
 8; 2677.0; 24-JAN-2009 12:03:05; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36092  
 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092  
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 2; 1630.3; 25-JAN-2009 12:54:37; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36107  
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 4; 2189.2; 25-JAN-2009 13:03:56; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36107  
 5; 2296.4; 25-JAN-2009 13:05:43; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;36107  
 6; 2411.9; 25-JAN-2009 13:07:39; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36107  
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 9; 3426.9; 25-JAN-2009 13:24:34; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36107  
 10; 3634.5; 25-JAN-2009 13:28:01; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36107  
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 17; 4900.0; 25-JAN-2009 13:49:07; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36107  
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 21; 5853.0; 25-JAN-2009 14:05:00; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;36107  
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 23; 6082.7; 25-JAN-2009 14:08:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36107  
 24; 6184.0; 25-JAN-2009 14:10:31; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36107  
 25; 6278.3; 25-JAN-2009 14:12:05; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36107  
 26; 6457.9; 25-JAN-2009 14:15:05; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36107  
 27; 6555.5; 25-JAN-2009 14:16:42; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36107  
 28; 6695.8; 25-JAN-2009 14:19:03; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36107  
 29; 6828.7; 25-JAN-2009 14:21:16; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36107  
 30; 6936.9; 25-JAN-2009 14:23:04; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36107  
 31; 7092.4; 25-JAN-2009 14:25:39; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36107  
 32; 7218.7; 25-JAN-2009 14:27:46; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;36107  
 33; 7307.0; 25-JAN-2009 14:29:14; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;36107

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 2; 1418.8; 25-JAN-2009 14:31:42; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;36108  
 3; 1501.6; 25-JAN-2009 14:33:05; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;36108  
 4; 1631.1; 25-JAN-2009 14:35:14; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36108  
 5; 1995.0; 25-JAN-2009 14:41:18; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;36108  
 6; 2189.3; 25-JAN-2009 14:44:32; Bright; 36.5; 44; 24Gam Gem ; 1.93; 11000;occ; 73; 0;36108  
 7; 2296.6; 25-JAN-2009 14:46:19; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36108  
 8; 2412.2; 25-JAN-2009 14:48:15; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36108  
 9; 2551.2; 25-JAN-2009 14:50:34; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;36108  
 10; 2679.0; 25-JAN-2009 14:52:42; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36108  
 11; 3426.8; 25-JAN-2009 15:05:10; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36108  
 12; 3634.4; 25-JAN-2009 15:08:37; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36108  
 13; 3909.4; 25-JAN-2009 15:13:12; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36108  
 14; 4085.9; 25-JAN-2009 15:16:09; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36108  
 15; 4291.4; 25-JAN-2009 15:19:34; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;36108  
 16; 4474.7; 25-JAN-2009 15:22:38; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36108  
 17; 4773.8; 25-JAN-2009 15:27:37; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36108  
 18; 4900.4; 25-JAN-2009 15:29:43; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36108  
 19; 5274.6; 25-JAN-2009 15:35:58; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;36108  
 20; 5517.8; 25-JAN-2009 15:40:01; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;36108  
 21; 5601.3; 25-JAN-2009 15:41:24; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36108  
 22; 5853.6; 25-JAN-2009 15:45:37; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36108  
 23; 5977.5; 25-JAN-2009 15:47:40; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36108  
 24; 6083.4; 25-JAN-2009 15:49:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36108  
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 26; 6279.2; 25-JAN-2009 15:52:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36108  
 27; 6458.7; 25-JAN-2009 15:55:42; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;36108  
 28; 6556.5; 25-JAN-2009 15:57:19; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36108  
 29; 6696.0; 25-JAN-2009 15:59:39; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36108  
 30; 6829.2; 25-JAN-2009 16:01:52; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36108  
 31; 6937.1; 25-JAN-2009 16:03:40; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;36108  
 32; 7092.4; 25-JAN-2009 16:06:15; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36108  
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 34; 7307.1; 25-JAN-2009 16:09:50; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36108

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 3; 1501.7; 25-JAN-2009 16:13:41; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;36109  
 4; 1631.0; 25-JAN-2009 16:15:50; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36109  
 5; 1995.3; 25-JAN-2009 16:21:54; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;36109  
 6; 2189.5; 25-JAN-2009 16:25:08; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36109  
 7; 2296.2; 25-JAN-2009 16:26:55; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36109  
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 9; 2550.8; 25-JAN-2009 16:31:10; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;36109  
 10; 2678.3; 25-JAN-2009 16:33:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36109  
 11; 3427.0; 25-JAN-2009 16:45:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36109  
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 13; 3909.2; 25-JAN-2009 16:53:48; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;36109

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 20; 5517.9; 25-JAN-2009 17:20:37; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36109  
 21; 5600.9; 25-JAN-2009 17:22:00; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;36109  
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 25; 6184.7; 25-JAN-2009 17:31:44; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36109  
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 27; 6459.0; 25-JAN-2009 17:36:18; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36109  
 28; 6556.9; 25-JAN-2009 17:37:56; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36109  
 29; 6696.0; 25-JAN-2009 17:40:15; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36109  
 30; 6830.0; 25-JAN-2009 17:42:29; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36109  
 31; 6937.5; 25-JAN-2009 17:44:16; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36109

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 2; 1056.8; 25-JAN-2009 17:46:52; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36110  
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 5; 1419.4; 25-JAN-2009 17:52:54; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;36110  
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 7; 1631.2; 25-JAN-2009 17:56:26; Dark ; 50.5; 1; 9Alp CMa ;-1.44; 11000;occ; 101; 0;36110  
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 10; 2296.9; 25-JAN-2009 18:07:32; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36110  
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 13; 2679.0; 25-JAN-2009 18:13:54; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36110  
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 15; 3633.5; 25-JAN-2009 18:29:48; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;36110  
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 18; 4291.5; 25-JAN-2009 18:40:46; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;36110  
 19; 4474.8; 25-JAN-2009 18:43:50; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36110  
 20; 4774.1; 25-JAN-2009 18:48:49; Bright; 51.0; 59; 55Alp Oph ; 2.08; 8900;occ; 102; 0;36110  
 21; 4901.0; 25-JAN-2009 18:50:56; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36110  
 22; 5276.1; 25-JAN-2009 18:57:11; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;36110  
 23; 5518.6; 25-JAN-2009 19:01:14; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;36110  
 24; 5601.3; 25-JAN-2009 19:02:36; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36110  
 25; 5855.2; 25-JAN-2009 19:06:50; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36110  
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 28; 6185.3; 25-JAN-2009 19:12:20; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36110  
 29; 6280.5; 25-JAN-2009 19:13:55; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36110  
 30; 6459.9; 25-JAN-2009 19:16:55; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36110  
 31; 6557.9; 25-JAN-2009 19:18:33; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36110  
 32; 6696.4; 25-JAN-2009 19:20:51; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36110  
 33; 6829.9; 25-JAN-2009 19:23:05; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36110  
 34; 6938.0; 25-JAN-2009 19:24:53; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36110  
 35; 7092.9; 25-JAN-2009 19:27:28; Dark ; 36.5; 34; Gam2Vel ; 1.79; 23000;occ; 73; 0;36110

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 7; 1994.6; 25-JAN-2009 19:43:05; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;36111  
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 11; 2551.6; 25-JAN-2009 19:52:22; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36111  
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 19; 4774.3; 25-JAN-2009 20:29:25; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36111  
 20; 4901.3; 25-JAN-2009 20:31:32; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36111  
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 13; 2683.0; 27-JAN-2009 20:31:56; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36140  
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 32; 4909.5; 27-JAN-2009 22:49:38; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;36141  
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17; 706.7; 31-JAN-2009 07:48:56; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
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21; 1204.1; 31-JAN-2009 07:57:13; Dark ; 30.5; 70; Zet Pup ; 2.25; 39000;occ; 61; 0;36190
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9; 4304.3; 31-JAN-2009 08:48:54; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36190  
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13; 5568.8; 31-JAN-2009 09:09:58; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36190  
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22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190  
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190  
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26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190  
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4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191  
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191  
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191  
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191  
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191  
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191  
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12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191  
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191  
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191  
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22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191  
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191  
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191  
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21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
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