

# GOMOS Daily Report 15-DEC-2010

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

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

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 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	18DEC2010 05:02:55
Data source version	GOMOS/5.01
Start time of products	15DEC2010 00:01:16
Stop time of products	15DEC2010 23:57:28
Store outputs in DB	Yes
Nb of level 1b prods	162
Nb of prods with errors	1

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

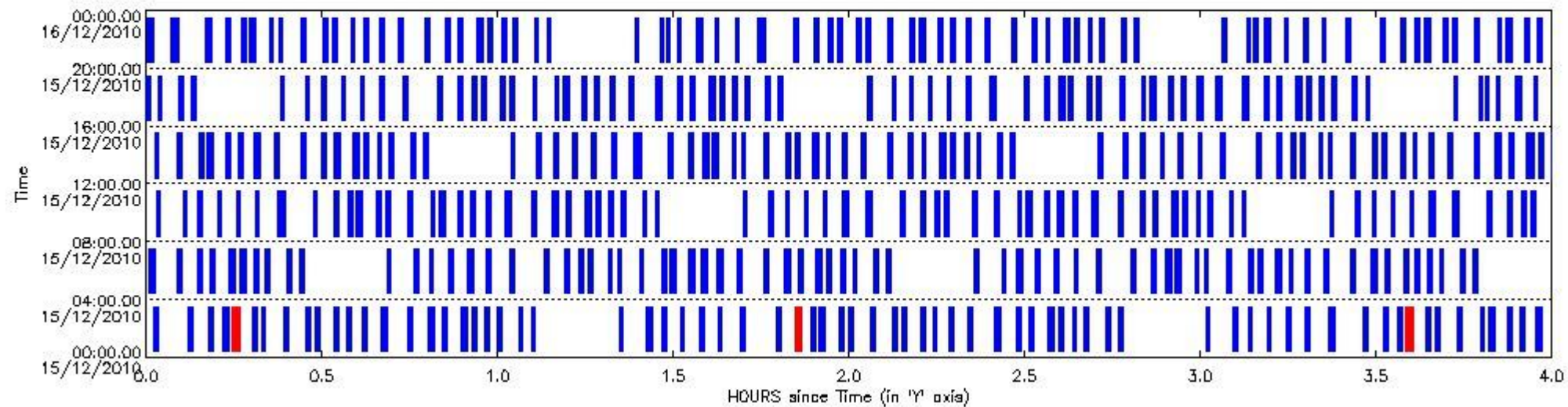
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
15-DEC-2010 00:14:34	2EpsCrv	171	45964
15-DEC-2010 01:50:53	46GamHya	169	45965
15-DEC-2010 03:35:04	2EpsCrv	171	45966

### 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_1PNPDE20101215_000116_000000513097_00260_45964_6749.N1	15-DEC-2010 00:01:16	Bright	51.000	138	47Eps Vir	2.8280	4700.0	102	45964	No
2	GOM_TRA_1PNPDE20101215_000713_000000513097_00260_45964_6745.N1	15-DEC-2010 00:07:13	Twilight	50.500	15	67Alp Vir	0.97600	28000.	101	45964	Yes
3	GOM_TRA_1PNPDE20101215_001042_000000453097_00260_45964_6746.N1	15-DEC-2010 00:10:42	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	45964	No
4	GOM_TRA_1PNPDE20101215_001306_000000553097_00260_45964_6747.N1	15-DEC-2010 00:13:06	Dark	55.000	106	9Bet Crv	2.6480	5600.0	110	45964	No
5	GOM_TRA_1PNPDE20101215_001803_000000473097_00260_45964_6748.N1	15-DEC-2010 00:18:03	Dark	47.000	64	Gam Cen	2.2000	10600.	94	45964	No
6	GOM_TRA_1PNPDE20101215_001939_000000443097_00261_45965_6749.N1	15-DEC-2010 00:19:39	Dark	43.500	99	Del Cen	2.5750	26000.	87	45965	No
7	GOM_TRA_1PNPDE20101215_002326_000000463097_00261_45965_6750.N1	15-DEC-2010 00:23:26	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45965	No
8	GOM_TRA_1PNPDE20101215_002717_000000423097_00261_45965_6751.N1	15-DEC-2010 00:27:17	Dark	41.500	71	Iot Car	2.2460	7700.0	83	45965	No

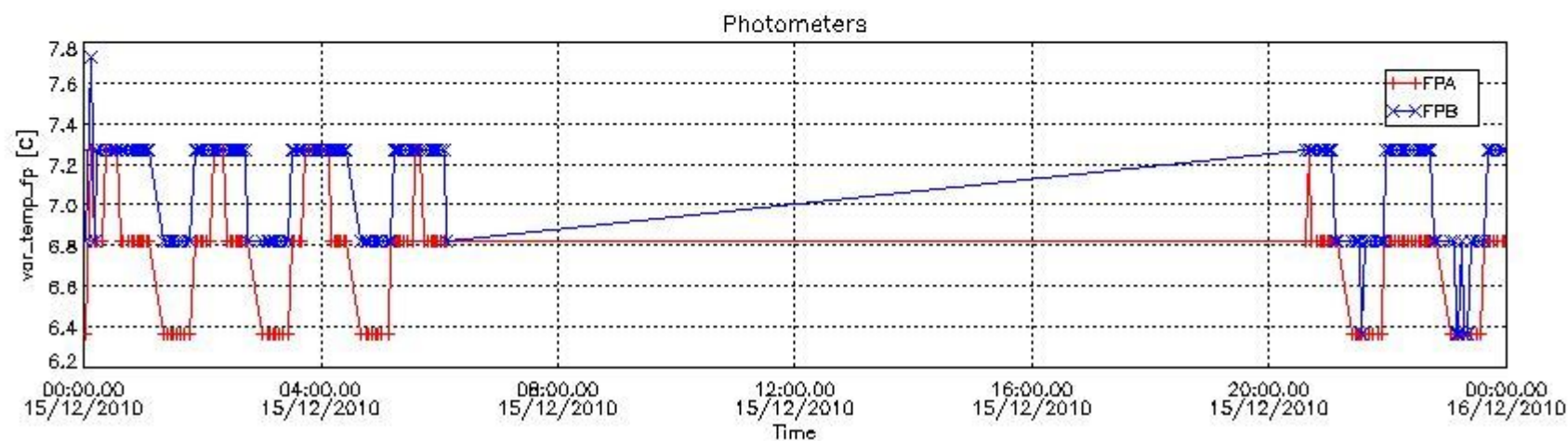
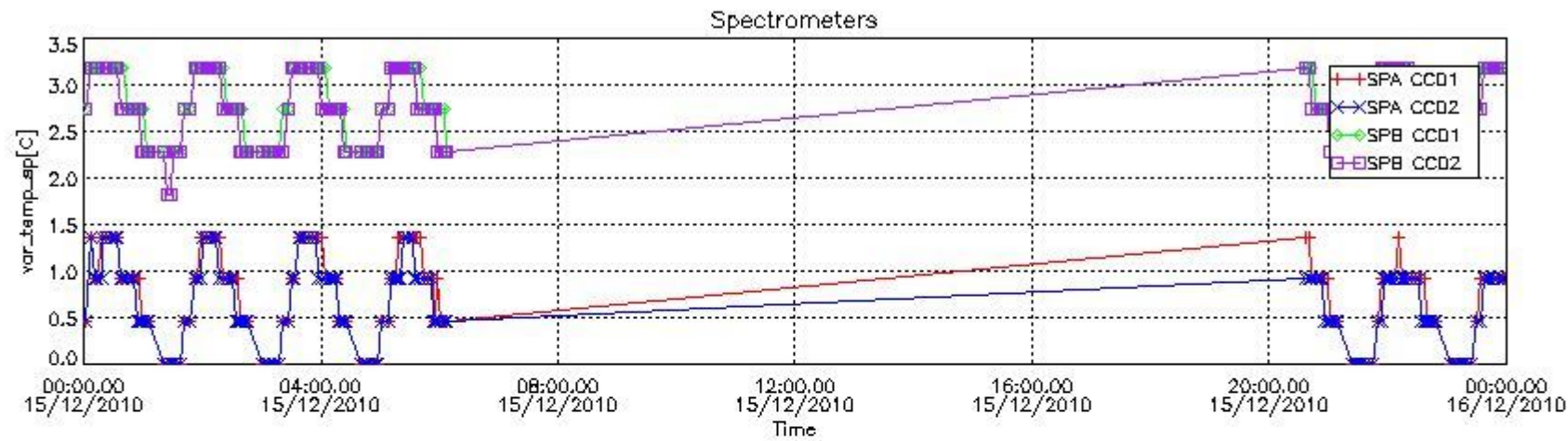
9	GOM_TRA_1PNPDE20101215_003154_000000513097_00261_45965_6752.N1	15-DEC-2010 00:31:54	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	45965	No
10	GOM_TRA_1PNPDE20101215_003406_000000523097_00261_45965_6753.N1	15-DEC-2010 00:34:06	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	45965	No
11	GOM_TRA_1PNPDE20101215_003646_000000533097_00261_45965_6754.N1	15-DEC-2010 00:36:46	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	45965	No
12	GOM_TRA_1PNPDE20101215_004002_000000593097_00261_45965_6755.N1	15-DEC-2010 00:40:02	Straylight	58.500	23	21Eps CMa	1.5020	26000.	117	45965	No
13	GOM_TRA_1PNPDE20101215_004439_000000543097_00261_45965_6756.N1	15-DEC-2010 00:44:39	Straylight	54.000	47	2Bet CMa	1.9760	28000.	108	45965	No
14	GOM_TRA_1PNPDE20101215_004813_000000523097_00261_45965_6757.N1	15-DEC-2010 00:48:13	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	45965	No
15	GOM_TRA_1PNPDE20101215_005030_000000493097_00261_45965_6758.N1	15-DEC-2010 00:50:30	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	45965	No
16	GOM_TRA_1PNPDE20101215_005342_000000633097_00261_45965_6759.N1	15-DEC-2010 00:53:42	Twilight	62.500	14	58Alp Ori	0.87000	3000.0	125	45965	No
17	GOM_TRA_1PNPDE20101215_005534_000000483097_00261_45965_6760.N1	15-DEC-2010 00:55:34	Twilight	47.500	13	87Alp Tau	0.86700	3800.0	95	45965	No
18	GOM_TRA_1PNPDE20101215_005752_000000443097_00261_45965_6761.N1	15-DEC-2010 00:57:52	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	45965	No
19	GOM_TRA_1PNPDE20101215_005955_000000443097_00261_45965_6762.N1	15-DEC-2010 00:59:55	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	45965	No
20	GOM_TRA_1PNPDE20101215_010334_000000453097_00261_45965_6763.N1	15-DEC-2010 01:03:34	Bright	44.500	107	37The Aur	2.6490	11000.	89	45965	No
21	GOM_TRA_1PNPDE20101215_010543_000000433097_00261_45965_6764.N1	15-DEC-2010 01:05:43	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	45965	No
22	GOM_TRA_1PNPDE20101215_012042_000000373097_00261_45965_6765.N1	15-DEC-2010 01:20:42	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	45965	No
23	GOM_TRA_1PNPDE20101215_012521_000000623097_00261_45965_6766.N1	15-DEC-2010 01:25:21	Bright	62.000	32	77Eps UMa	1.7630	11000.	124	45965	No
24	GOM_TRA_1PNPDE20101215_012754_000000583097_00261_45965_6767.N1	15-DEC-2010 01:27:54	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	45965	No
25	GOM_TRA_1PNPDE20101215_013112_000000353097_00261_45965_6768.N1	15-DEC-2010 01:31:12	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	45965	No
26	GOM_TRA_1PNPDE20101215_013423_000000543097_00261_45965_6769.N1	15-DEC-2010 01:34:23	Bright	54.000	83		2.3780	11000.	108	45965	No
27	GOM_TRA_1PNPDE20101215_013739_000000403097_00261_45965_6770.N1	15-DEC-2010 01:37:39	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	45965	No
28	GOM_TRA_1PNPDE20101215_014131_000000493097_00261_45965_6771.N1	15-DEC-2010 01:41:31	Bright	48.500	138	47Eps Vir	2.8280	4700.0	97	45965	No
29	GOM_TRA_1PNPDE20101215_014728_000000543097_00261_45965_6762.N1	15-DEC-2010 01:47:28	Twilight	53.500	15	67Alp Vir	0.97600	28000.	107	45965	No
30	GOM_TRA_1PNPDE20101215_015321_000000523097_00261_45965_6763.N1	15-DEC-2010 01:53:21	Dark	51.500	106	9Bet Crv	2.6480	5600.0	103	45965	No
31	GOM_TRA_1PNPDE20101215_015453_000000583097_00261_45965_6764.N1	15-DEC-2010 01:54:53	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	45965	No
32	GOM_TRA_1PNPDE20101215_015818_000000433097_00261_45965_6765.N1	15-DEC-2010 01:58:18	Dark	43.000	64	Gam Cen	2.2000	10600.	86	45965	No
33	GOM_TRA_1PNPDE20101215_015954_000000423097_00262_45966_6766.N1	15-DEC-2010 01:59:54	Dark	41.500	99	Del Cen	2.5750	26000.	83	45966	No
34	GOM_TRA_1PNPDE20101215_020341_000000463097_00262_45966_6767.N1	15-DEC-2010 02:03:41	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45966	No
35	GOM_TRA_1PNPDE20101215_020731_000000433097_00262_45966_6768.N1	15-DEC-2010 02:07:31	Dark	42.500	71	lot Car	2.2460	7700.0	85	45966	No
36	GOM_TRA_1PNPDE20101215_021209_000000463097_00262_45966_6769.N1	15-DEC-2010 02:12:09	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	45966	No
37	GOM_TRA_1PNPDE20101215_021421_000000403097_00262_45966_6770.N1	15-DEC-2010 02:14:21	Dark	40.000	2	Alp Car	-0.73600	7000.0	80	45966	No
38	GOM_TRA_1PNPDE20101215_021701_000000533097_00262_45966_6771.N1	15-DEC-2010 02:17:01	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	45966	No
39	GOM_TRA_1PNPDE20101215_022017_000000543097_00262_45966_6772.N1	15-DEC-2010 02:20:17	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	45966	No
40	GOM_TRA_1PNPDE20101215_022454_000000563097_00262_45966_6773.N1	15-DEC-2010 02:24:54	Straylight	56.000	47	2Bet CMa	1.9760	28000.	112	45966	No
41	GOM_TRA_1PNPDE20101215_022828_000000533097_00262_45966_6774.N1	15-DEC-2010 02:28:28	Straylight	52.500	7	19Bet Ori	0.10000	14000.	105	45966	No
42	GOM_TRA_1PNPDE20101215_023044_000000513097_00262_45966_6775.N1	15-DEC-2010 02:30:44	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	45966	No
43	GOM_TRA_1PNPDE20101215_023355_000000673097_00262_45966_6776.N1	15-DEC-2010 02:33:55	Twilight	67.000	14	58Alp Ori	0.87000	3000.0	134	45966	No
44	GOM_TRA_1PNPDE20101215_023548_000000513097_00262_45966_6777.N1	15-DEC-2010 02:35:48	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	45966	No
45	GOM_TRA_1PNPDE20101215_023806_000000463097_00262_45966_6778.N1	15-DEC-2010 02:38:06	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	45966	No
46	GOM_TRA_1PNPDE20101215_024009_000000443097_00262_45966_6779.N1	15-DEC-2010 02:40:09	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45966	No
47	GOM_TRA_1PNPDE20101215_024347_000000443097_00262_45966_6780.N1	15-DEC-2010 02:43:47	Bright	44.000	107	37The Aur	2.6490	11000.	88	45966	No
48	GOM_TRA_1PNPDE20101215_024556_000000443097_00262_45966_6781.N1	15-DEC-2010 02:45:56	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	45966	No
49	GOM_TRA_1PNPDE20101215_030056_000000383097_00262_45966_6773.N1	15-DEC-2010 03:00:56	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	45966	No
50	GOM_TRA_1PNPDE20101215_030535_000000463097_00262_45966_6774.N1	15-DEC-2010 03:05:35	Bright	45.500	32	77Eps UMa	1.7630	11000.	91	45966	No
51	GOM_TRA_1PNPDE20101215_030808_000000433097_00262_45966_6775.N1	15-DEC-2010 03:08:08	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	45966	No
52	GOM_TRA_1PNPDE20101215_031126_000000373097_00262_45966_6776.N1	15-DEC-2010 03:11:26	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	45966	No
53	GOM_TRA_1PNPDE20101215_031437_000000463097_00262_45966_6777.N1	15-DEC-2010 03:14:37	Bright	46.000	83		2.3780	11000.	92	45966	No
54	GOM_TRA_1PNPDE20101215_031754_000000513097_00262_45966_6778.N1	15-DEC-2010 03:17:54	Bright	50.500	111	8Eta Boo	2.6800	6000.0	101	45966	No
55	GOM_TRA_1PNPDE20101215_032146_000000733097_00262_45966_6779.N1	15-DEC-2010 03:21:46	Bright	73.000	138	47Eps Vir	2.8280	4700.0	146	45966	No
56	GOM_TRA_1PNPDE20101215_032743_000000563097_00262_45966_6780.N1	15-DEC-2010 03:27:43	Twilight	55.500	15	67Alp Vir	0.97600	28000.	111	45966	No
57	GOM_TRA_1PNPDE20101215_033112_000000463097_00262_45966_6781.N1	15-DEC-2010 03:31:12	Twilight	45.500	169	46Gam Hya	2.9910	4700.0	91	45966	No
58	GOM_TRA_1PNPDE20101215_033336_000000533097_00262_45966_6782.N1	15-DEC-2010 03:33:36	Dark	52.500	106	9Bet Crv	2.6480	5600.0	105	45966	No
59	GOM_TRA_1PNPDE20101215_033832_000000413097_00262_45966_6783.N1	15-DEC-2010 03:38:32	Dark	40.500	64	Gam Cen	2.2000	10600.	81	45966	No
60	GOM_TRA_1PNPDE20101215_034009_000000403097_00263_45967_6784.N1	15-DEC-2010 03:40:09	Dark	40.000	99	Del Cen	2.5750	26000.	80	45967	No
61	GOM_TRA_1PNPDE20101215_034356_000000473097_00263_45967_6785.N1	15-DEC-2010 03:43:56	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	45967	No
62	GOM_TRA_1PNPDE20101215_034746_000000423097_00263_45967_6786.N1	15-DEC-2010 03:47:46	Dark	41.500	71	lot Car	2.2460	7700.0	83	45967	No
63	GOM_TRA_1PNPDE20101215_035223_000000463097_00263_45967_6787.N1	15-DEC-2010 03:52:23	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	45967	No
64	GOM_TRA_1PNPDE20101215_035435_000000483097_00263_45967_6788.N1	15-DEC-2010 03:54:35	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	45967	No
65	GOM_TRA_1PNPDE20101215_035715_000000583097_00263_45967_6789.N1	15-DEC-2010 03:57:15	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	45967	No
66	GOM_TRA_1PNPDE20101215_040032_000000553097_00263_45967_6790.N1	15-DEC-2010 04:00:32	Straylight	54.500	23	21Eps CMa	1.5020	26000.	109	45967	No
67	GOM_TRA_1PNPDE20101215_040508_000000513097_00263_45967_6791.N1	15-DEC-2010 04:05:08	Straylight	50.500	47	2Bet CMa	1.9760	28000.	101	45967	No



68	GOM_TRA_1PNPDE20101215_040842_000000493097_00263_45967_6792.N1	15-DEC-2010 04:08:42	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	45967	No
69	GOM_TRA_1PNPDE20101215_041058_000000513097_00263_45967_6793.N1	15-DEC-2010 04:10:58	Straylight	50.500	30	46Eps Ori	1.6940	30000.	101	45967	No
70	GOM_TRA_1PNPDE20101215_041409_000000643097_00263_45967_6794.N1	15-DEC-2010 04:14:09	Twilight	64.000	14	58Alp Ori	0.87000	3000.0	128	45967	No
71	GOM_TRA_1PNPDE20101215_041602_000000543097_00263_45967_6795.N1	15-DEC-2010 04:16:02	Twilight	53.500	13	87Alp Tau	0.86700	3800.0	107	45967	No
72	GOM_TRA_1PNPDE20101215_041820_000000463097_00263_45967_6796.N1	15-DEC-2010 04:18:20	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	45967	No
73	GOM_TRA_1PNPDE20101215_042022_000000433097_00263_45967_6797.N1	15-DEC-2010 04:20:22	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	45967	No
74	GOM_TRA_1PNPDE20101215_042401_000000443097_00263_45967_6798.N1	15-DEC-2010 04:24:01	Bright	43.500	107	37The Aur	2.6490	11000.	87	45967	No
75	GOM_TRA_1PNPDE20101215_042610_000000443097_00263_45967_6799.N1	15-DEC-2010 04:26:10	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	45967	No
76	GOM_TRA_1PNPDE20101215_044111_000000393097_00263_45967_6813.N1	15-DEC-2010 04:41:11	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	45967	No
77	GOM_TRA_1PNPDE20101215_044549_000000443097_00263_45967_6814.N1	15-DEC-2010 04:45:49	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	45967	No
78	GOM_TRA_1PNPDE20101215_044822_000000393097_00263_45967_6815.N1	15-DEC-2010 04:48:22	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	45967	No
79	GOM_TRA_1PNPDE20101215_045140_000000383097_00263_45967_6816.N1	15-DEC-2010 04:51:40	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	45967	No
80	GOM_TRA_1PNPDE20101215_045451_000000543097_00263_45967_6817.N1	15-DEC-2010 04:54:51	Bright	54.000	83		2.3780	11000.	108	45967	No
81	GOM_TRA_1PNPDE20101215_045808_000000403097_00263_45967_6818.N1	15-DEC-2010 04:58:08	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	45967	No
82	GOM_TRA_1PNPDE20101215_050200_000000523097_00263_45967_6819.N1	15-DEC-2010 05:02:00	Bright	51.500	138	47Eps Vir	2.8280	4700.0	103	45967	No
83	GOM_TRA_1PNPDE20101215_050757_000000533097_00263_45967_6820.N1	15-DEC-2010 05:07:57	Twilight	53.000	15	67Alp Vir	0.97600	28000.	106	45967	No
84	GOM_TRA_1PNPDE20101215_051127_000000473097_00263_45967_6821.N1	15-DEC-2010 05:11:27	Twilight	46.500	169	46Gam Hya	2.9910	4700.0	93	45967	No
85	GOM_TRA_1PNPDE20101215_051351_000000543097_00263_45967_6822.N1	15-DEC-2010 05:13:51	Dark	53.500	106	9Bet Crv	2.6480	5600.0	107	45967	No
86	GOM_TRA_1PNPDE20101215_051523_000000553097_00263_45967_6823.N1	15-DEC-2010 05:15:23	Dark	55.000	171	2Eps Crv	3.0010	4250.0	110	45967	No
87	GOM_TRA_1PNPDE20101215_051847_000000423097_00263_45967_6824.N1	15-DEC-2010 05:18:47	Dark	42.000	64	Gam Cen	2.2000	10600.	84	45967	No
88	GOM_TRA_1PNPDE20101215_052024_000000423097_00264_45968_6825.N1	15-DEC-2010 05:20:24	Dark	41.500	99	Del Cen	2.5750	26000.	83	45968	No
89	GOM_TRA_1PNPDE20101215_052411_000000453097_00264_45968_6826.N1	15-DEC-2010 05:24:11	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	45968	No
90	GOM_TRA_1PNPDE20101215_052801_000000433097_00264_45968_6827.N1	15-DEC-2010 05:28:01	Dark	42.500	71	lot Car	2.2460	7700.0	85	45968	No
91	GOM_TRA_1PNPDE20101215_053238_000000553097_00264_45968_6828.N1	15-DEC-2010 05:32:38	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	45968	No
92	GOM_TRA_1PNPDE20101215_053450_000000523097_00264_45968_6829.N1	15-DEC-2010 05:34:50	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	45968	No
93	GOM_TRA_1PNPDE20101215_053730_000000523097_00264_45968_6830.N1	15-DEC-2010 05:37:30	Dark	52.000	117	Pi Pup	2.7060	3800.0	104	45968	No
94	GOM_TRA_1PNPDE20101215_054046_000000583097_00264_45968_6831.N1	15-DEC-2010 05:40:46	Straylight	58.000	23	21Eps CMa	1.5020	26000.	116	45968	No
95	GOM_TRA_1PNPDE20101215_054522_000000553097_00264_45968_6832.N1	15-DEC-2010 05:45:22	Straylight	54.500	47	2Bet CMa	1.9760	28000.	109	45968	No
96	GOM_TRA_1PNPDE20101215_054856_000000563097_00264_45968_6833.N1	15-DEC-2010 05:48:56	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	45968	No
97	GOM_TRA_1PNPDE20101215_055112_000000503097_00264_45968_6834.N1	15-DEC-2010 05:51:12	Straylight	50.000	30	46Eps Ori	1.6940	30000.	100	45968	No
98	GOM_TRA_1PNPDE20101215_055423_000000603097_00264_45968_6835.N1	15-DEC-2010 05:54:23	Twilight	59.500	14	58Alp Ori	0.87000	3000.0	119	45968	No
99	GOM_TRA_1PNPDE20101215_055616_000000483097_00264_45968_6836.N1	15-DEC-2010 05:56:16	Twilight	48.000	13	87Alp Tau	0.86700	3800.0	96	45968	No
100	GOM_TRA_1PNPDE20101215_055833_000000453097_00264_45968_6837.N1	15-DEC-2010 05:58:33	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	45968	No
101	GOM_TRA_1PNPDE20101215_060036_000000423097_00264_45968_6838.N1	15-DEC-2010 06:00:36	Bright	41.500	28	12Bet Tau	1.6500	15200.	83	45968	No
102	GOM_TRA_1PNPDE20101215_060414_000000463097_00264_45968_6839.N1	15-DEC-2010 06:04:14	Bright	45.500	107	37The Aur	2.6490	11000.	91	45968	No
103	GOM_TRA_1PNPDE20101215_060623_000000443097_00264_45968_6840.N1	15-DEC-2010 06:06:23	Bright	43.500	42	34Bet Aur	1.9000	10200.	87	45968	No
104	GOM_TRA_1PNPDE20101215_203700_000000553097_00273_45977_6913.N1	15-DEC-2010 20:37:00	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	45977	No
105	GOM_TRA_1PNPDE20101215_203941_000000563097_00273_45977_6914.N1	15-DEC-2010 20:39:41	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45977	No
106	GOM_TRA_1PNPDE20101215_204256_000000563097_00273_45977_6915.N1	15-DEC-2010 20:42:56	Straylight	56.000	23	21Eps CMa	1.5020	26000.	112	45977	No
107	GOM_TRA_1PNPDE20101215_204730_000000533097_00273_45977_6916.N1	15-DEC-2010 20:47:30	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	45977	No
108	GOM_TRA_1PNPDE20101215_205103_000000503097_00273_45977_6917.N1	15-DEC-2010 20:51:03	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	45977	No
109	GOM_TRA_1PNPDE20101215_205317_000000483097_00273_45977_6918.N1	15-DEC-2010 20:53:17	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	45977	No
110	GOM_TRA_1PNPDE20101215_205626_000000583097_00273_45977_6919.N1	15-DEC-2010 20:56:26	Twilight	57.500	14	58Alp Ori	0.87000	3000.0	115	45977	No
111	GOM_TRA_1PNPDE20101215_205822_000000483097_00273_45977_6920.N1	15-DEC-2010 20:58:22	Twilight	48.000	13	87Alp Tau	0.86700	3800.0	96	45977	No
112	GOM_TRA_1PNPDE20101215_210036_000000583097_00273_45977_6921.N1	15-DEC-2010 21:00:36	Bright	58.000	176	23Zet Tau	3.0200	22000.	116	45977	No
113	GOM_TRA_1PNPDE20101215_210239_000000443097_00273_45977_6922.N1	15-DEC-2010 21:02:39	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	45977	No
114	GOM_TRA_1PNPDE20101215_210614_000000453097_00273_45977_6923.N1	15-DEC-2010 21:06:14	Bright	44.500	107	37The Aur	2.6490	11000.	89	45977	No
115	GOM_TRA_1PNPDE20101215_210824_000000433097_00273_45977_6924.N1	15-DEC-2010 21:08:24	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	45977	No
116	GOM_TRA_1PNPDE20101215_212331_000000373097_00273_45977_6925.N1	15-DEC-2010 21:23:31	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	45977	No
117	GOM_TRA_1PNPDE20101215_212745_000000343097_00273_45977_6926.N1	15-DEC-2010 21:27:45	Twilight	34.000	87	64Gam UMa	2.4330	11000.	68	45977	No
118	GOM_TRA_1PNPDE20101215_212846_000000393097_00273_45977_6927.N1	15-DEC-2010 21:28:46	Bright	38.500	55	79Zet UMa	2.0600	10200.	77	45977	No
119	GOM_TRA_1PNPDE20101215_213041_000000403097_00273_45977_6928.N1	15-DEC-2010 21:30:41	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	45977	No
120	GOM_TRA_1PNPDE20101215_213401_000000553097_00273_45977_6929.N1	15-DEC-2010 21:34:01	Bright	55.000	180	27Gam Boo	3.0400	8000.0	110	45977	No
121	GOM_TRA_1PNPDE20101215_213713_000000353097_00273_45977_6930.N1	15-DEC-2010 21:37:13	Bright	35.000	83		2.3780	11000.	70	45977	No
122	GOM_TRA_1PNPDE20101215_214031_000000443097_00273_45977_6931.N1	15-DEC-2010 21:40:31	Bright	43.500	111	8Eta Boo	2.6800	6000.0	87	45977	No
123	GOM_TRA_1PNPDE20101215_214427_000000743097_00273_45977_6932.N1	15-DEC-2010 21:44:27	Bright	74.000	138	47Eps Vir	2.8280	4700.0	148	45977	No
124	GOM_TRA_1PNPDE20101215_215025_000000533097_00273_45977_6936.N1	15-DEC-2010 21:50:25	Twilight	53.000	15	67Alp Vir	0.97600	28000.	106	45977	No
125	GOM_TRA_1PNPDE20101215_215354_000000483097_00273_45977_6937.N1	15-DEC-2010 21:53:54	Dark	47.500	169	46Gam Hya	2.9910	4700.0	95	45977	No
126	GOM_TRA_1PNPDE20101215_215622_000000523097_00273_45977_6938.N1	15-DEC-2010 21:56:22	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	45977	No

127	GOM_TRA_1PNPDE20101215_215757_000000603097_00273_45977_6939.N1	15-DEC-2010 21:57:57	Dark	59.500	171	2Eps Crv	3.0010	4250.0	119	45977	No
128	GOM_TRA_1PNPDE20101215_220114_000000433097_00273_45977_6940.N1	15-DEC-2010 22:01:14	Dark	42.500	64	Gam Cen	2.2000	10600.	85	45977	No
129	GOM_TRA_1PNPDE20101215_220251_000000423097_00274_45978_6941.N1	15-DEC-2010 22:02:51	Dark	41.500	99	Del Cen	2.5750	26000.	83	45978	No
130	GOM_TRA_1PNPDE20101215_220640_000000453097_00274_45978_6942.N1	15-DEC-2010 22:06:40	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	45978	No
131	GOM_TRA_1PNPDE20101215_221027_000000433097_00274_45978_6943.N1	15-DEC-2010 22:10:27	Dark	43.000	71	lot Car	2.2460	7700.0	86	45978	No
132	GOM_TRA_1PNPDE20101215_221506_000000503097_00274_45978_6944.N1	15-DEC-2010 22:15:06	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	45978	No
133	GOM_TRA_1PNPDE20101215_221714_000000483097_00274_45978_6945.N1	15-DEC-2010 22:17:14	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	45978	No
134	GOM_TRA_1PNPDE20101215_221956_000000573097_00274_45978_6946.N1	15-DEC-2010 22:19:56	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	45978	No
135	GOM_TRA_1PNPDE20101215_222311_000000533097_00274_45978_6947.N1	15-DEC-2010 22:23:11	Straylight	53.000	23	21Eps CMa	1.5020	26000.	106	45978	No
136	GOM_TRA_1PNPDE20101215_222744_000000503097_00274_45978_6948.N1	15-DEC-2010 22:27:44	Straylight	50.000	47	2Bet CMa	1.9760	28000.	100	45978	No
137	GOM_TRA_1PNPDE20101215_223117_000000513097_00274_45978_6949.N1	15-DEC-2010 22:31:17	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	45978	No
138	GOM_TRA_1PNPDE20101215_223331_000000483097_00274_45978_6950.N1	15-DEC-2010 22:33:31	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	45978	No
139	GOM_TRA_1PNPDE20101215_223640_000000603097_00274_45978_6951.N1	15-DEC-2010 22:36:40	Tw_i_and_stray	59.500	14	58Alp Ori	0.87000	3000.0	119	45978	No
140	GOM_TRA_1PNPDE20101215_223836_000000483097_00274_45978_6952.N1	15-DEC-2010 22:38:36	Tw_i_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	45978	No
141	GOM_TRA_1PNPDE20101215_224049_000000443097_00274_45978_6953.N1	15-DEC-2010 22:40:49	Bright	44.000	176	23Zet Tau	3.0200	22000.	88	45978	No
142	GOM_TRA_1PNPDE20101215_224252_000000433097_00274_45978_6954.N1	15-DEC-2010 22:42:52	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	45978	No
143	GOM_TRA_1PNPDE20101215_224628_000000443097_00274_45978_6955.N1	15-DEC-2010 22:46:28	Bright	44.000	107	37The Aur	2.6490	11000.	88	45978	No
144	GOM_TRA_1PNPDE20101215_224838_000000443097_00274_45978_6956.N1	15-DEC-2010 22:48:38	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	45978	No
145	GOM_TRA_1PNPDE20101215_230345_000000383097_00274_45978_6957.N1	15-DEC-2010 23:03:45	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	45978	No
146	GOM_TRA_1PNPDE20101215_230759_000000303097_00274_45978_6958.N1	15-DEC-2010 23:07:59	Tw_i_and_stray	30.000	87	64Gam UMa	2.4330	11000.	60	45978	No
147	GOM_TRA_1PNPDE20101215_230900_000000453097_00274_45978_6959.N1	15-DEC-2010 23:09:00	Bright	44.500	55	79Zet UMa	2.0600	10200.	89	45978	No
148	GOM_TRA_1PNPDE20101215_231055_000000583097_00274_45978_6960.N1	15-DEC-2010 23:10:55	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	45978	No
149	GOM_TRA_1PNPDE20101215_231415_000000423097_00274_45978_6961.N1	15-DEC-2010 23:14:15	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	45978	No
150	GOM_TRA_1PNPDE20101215_231728_000000543097_00274_45978_6962.N1	15-DEC-2010 23:17:28	Bright	54.000	83		2.3780	11000.	108	45978	No
151	GOM_TRA_1PNPDE20101215_232046_000000403097_00274_45978_6963.N1	15-DEC-2010 23:20:46	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	45978	No
152	GOM_TRA_1PNPDE20101215_232442_000000533097_00274_45978_6964.N1	15-DEC-2010 23:24:42	Bright	52.500	138	47Eps Vir	2.8280	4700.0	105	45978	No
153	GOM_TRA_1PNPDE20101215_233039_000000503097_00274_45978_6958.N1	15-DEC-2010 23:30:39	Tw_i_and_stray	50.000	15	67Alp Vir	0.97600	28000.	100	45978	No
154	GOM_TRA_1PNPDE20101215_233409_000000443097_00274_45978_6959.N1	15-DEC-2010 23:34:09	Dark	44.000	169	46Gam Hya	2.9910	4700.0	88	45978	No
155	GOM_TRA_1PNPDE20101215_233637_000000533097_00274_45978_6960.N1	15-DEC-2010 23:36:37	Dark	53.000	106	9Bet Crv	2.6480	5600.0	106	45978	No
156	GOM_TRA_1PNPDE20101215_233812_000000663097_00274_45978_6961.N1	15-DEC-2010 23:38:12	Dark	66.000	171	2Eps Crv	3.0010	4250.0	132	45978	No
157	GOM_TRA_1PNPDE20101215_234128_000000413097_00274_45978_6962.N1	15-DEC-2010 23:41:28	Dark	41.000	64	Gam Cen	2.2000	10600.	82	45978	No
158	GOM_TRA_1PNPDE20101215_234305_000000403097_00275_45979_6963.N1	15-DEC-2010 23:43:05	Dark	40.000	99	Del Cen	2.5750	26000.	80	45979	No
159	GOM_TRA_1PNPDE20101215_234655_000000463097_00275_45979_6964.N1	15-DEC-2010 23:46:55	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45979	No
160	GOM_TRA_1PNPDE20101215_235042_000000433097_00275_45979_6965.N1	15-DEC-2010 23:50:42	Dark	42.500	71	lot Car	2.2460	7700.0	85	45979	No
161	GOM_TRA_1PNPDE20101215_235520_000000503097_00275_45979_6966.N1	15-DEC-2010 23:55:20	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	45979	No
162	GOM_TRA_1PNPDE20101215_235728_000000493097_00275_45979_6967.N1	15-DEC-2010 23:57:28	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	45979	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.

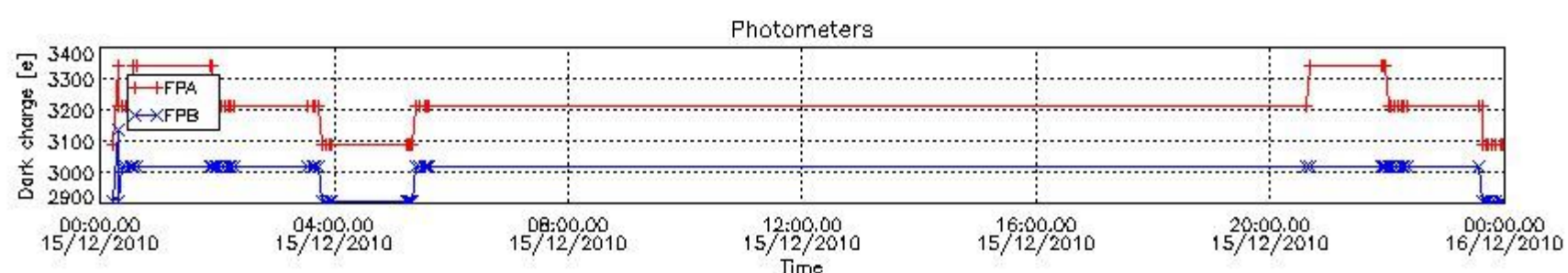
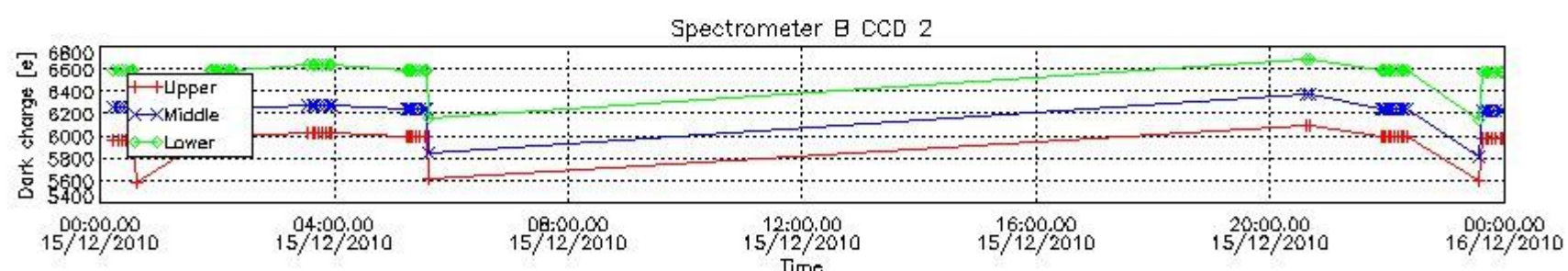
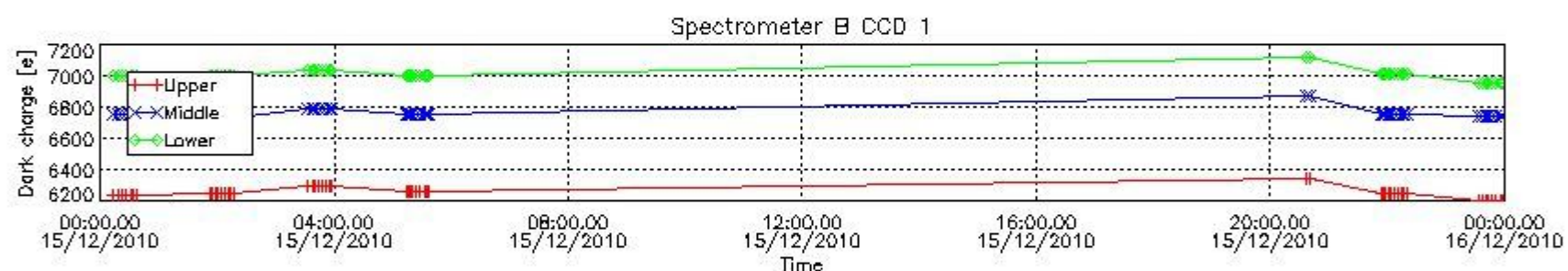
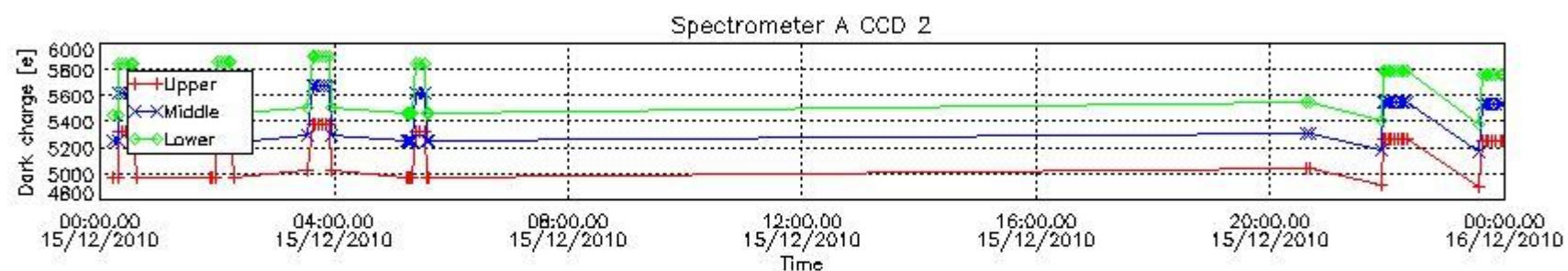
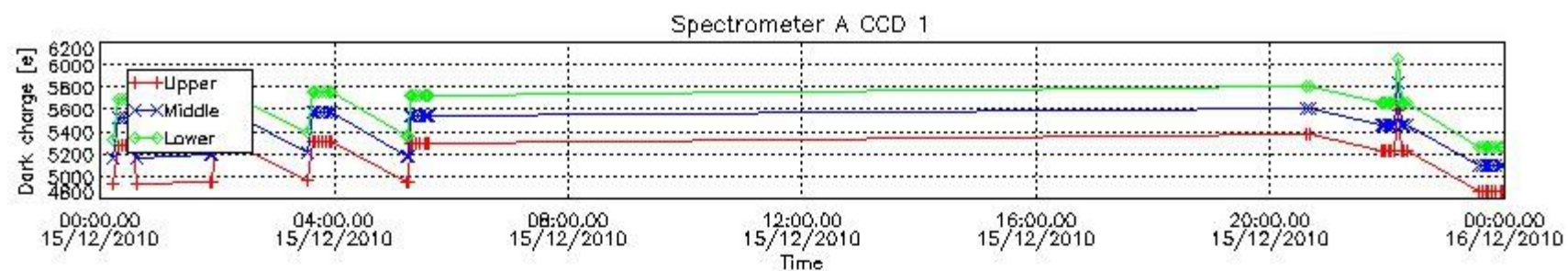
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101215_203700_000000553097_00273_45977_6913.N1	DC map used
GOM_TRA_1PNPDE20101215_203941_000000563097_00273_45977_6914.N1	DC map used
GOM_TRA_1PNPDE20101215_204256_000000563097_00273_45977_6915.N1	DC map used
GOM_TRA_1PNPDE20101215_204730_000000533097_00273_45977_6916.N1	DC map used
GOM_TRA_1PNPDE20101215_205103_000000503097_00273_45977_6917.N1	DC map used
GOM_TRA_1PNPDE20101215_205317_000000483097_00273_45977_6918.N1	DC map used
GOM_TRA_1PNPDE20101215_205626_000000583097_00273_45977_6919.N1	DC map used
GOM_TRA_1PNPDE20101215_205822_000000483097_00273_45977_6920.N1	DC map used
GOM_TRA_1PNPDE20101215_210036_000000583097_00273_45977_6921.N1	DC map used
GOM_TRA_1PNPDE20101215_210239_000000443097_00273_45977_6922.N1	DC map used
GOM_TRA_1PNPDE20101215_210614_000000453097_00273_45977_6923.N1	DC map used
GOM_TRA_1PNPDE20101215_210824_000000433097_00273_45977_6924.N1	DC map used
GOM_TRA_1PNPDE20101215_212331_000000373097_00273_45977_6925.N1	DC map used
GOM_TRA_1PNPDE20101215_212745_000000343097_00273_45977_6926.N1	DC map used



GOM_TRA_1PNPDE20101215_212846_000000393097_00273_45977_6927.N1	DC map used
GOM_TRA_1PNPDE20101215_213041_000000403097_00273_45977_6928.N1	DC map used
GOM_TRA_1PNPDE20101215_213401_000000553097_00273_45977_6929.N1	DC map used
GOM_TRA_1PNPDE20101215_213713_000000353097_00273_45977_6930.N1	DC map used
GOM_TRA_1PNPDE20101215_214031_000000443097_00273_45977_6931.N1	DC map used
GOM_TRA_1PNPDE20101215_214427_000000743097_00273_45977_6932.N1	DC map used

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



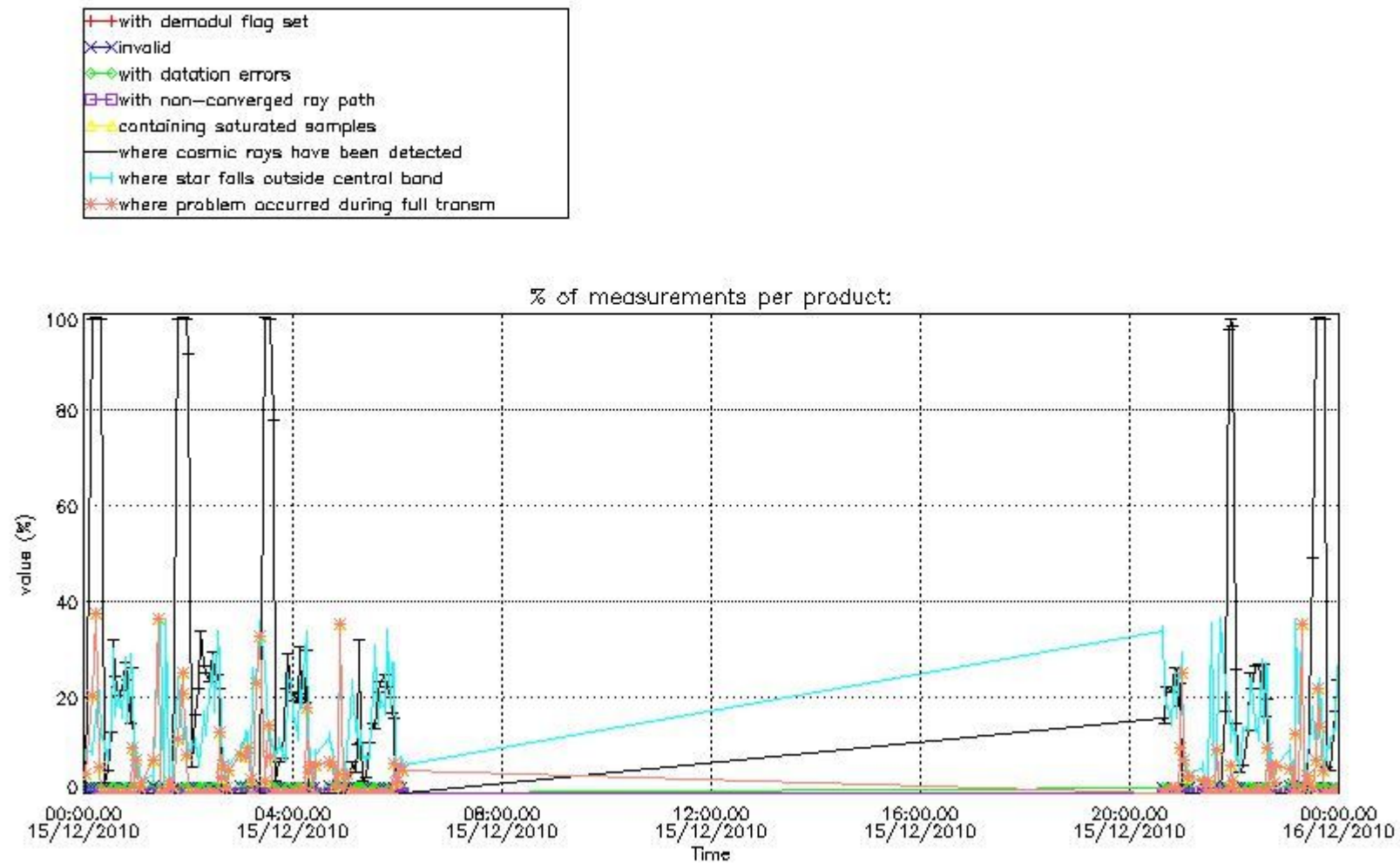
## 5. Demodulation flag and quality information monitoring

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:

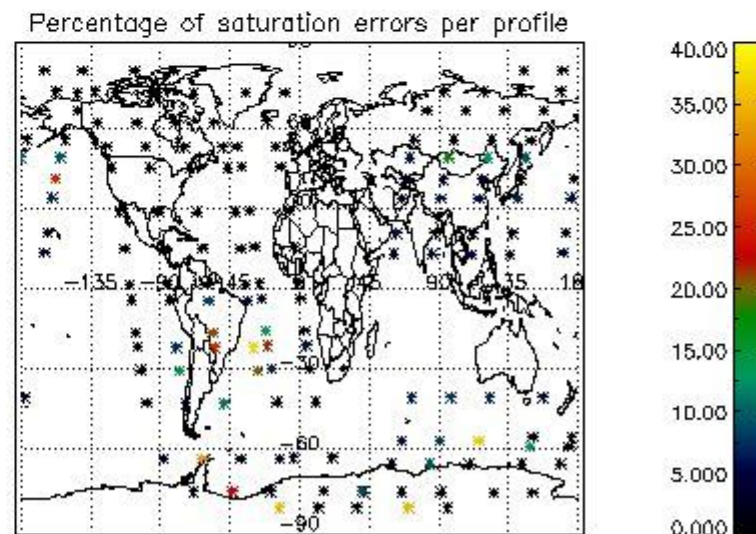
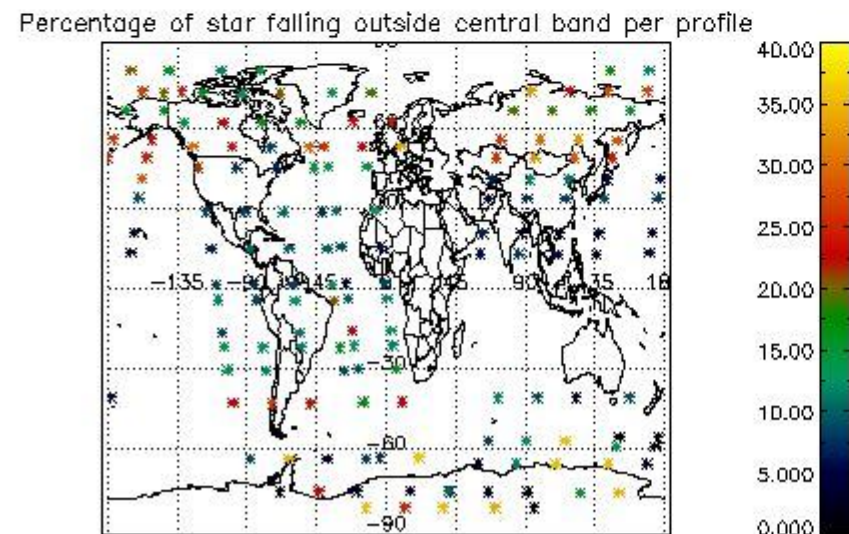
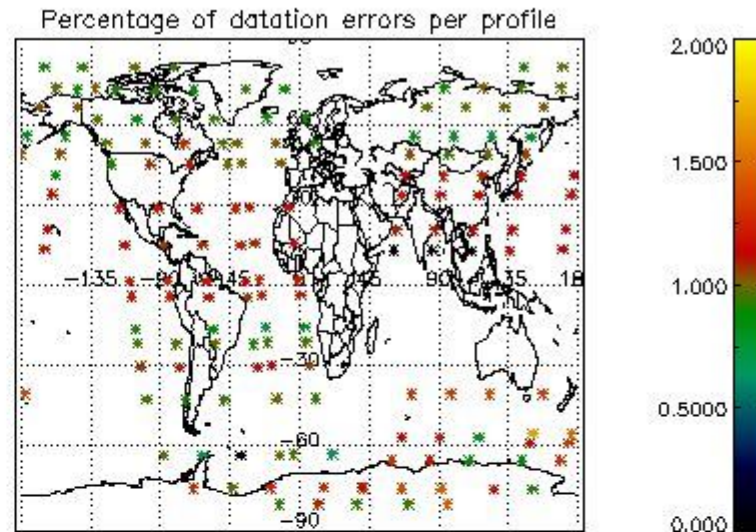
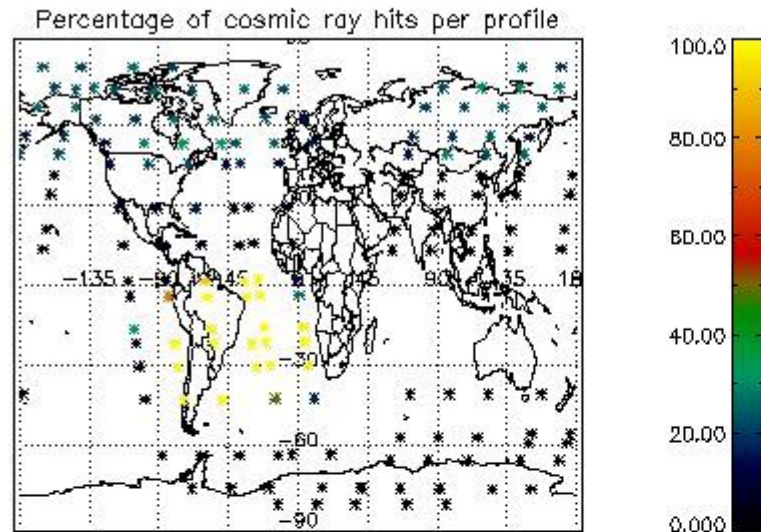
At least one measurement with demodulation flag set:	61.4907 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





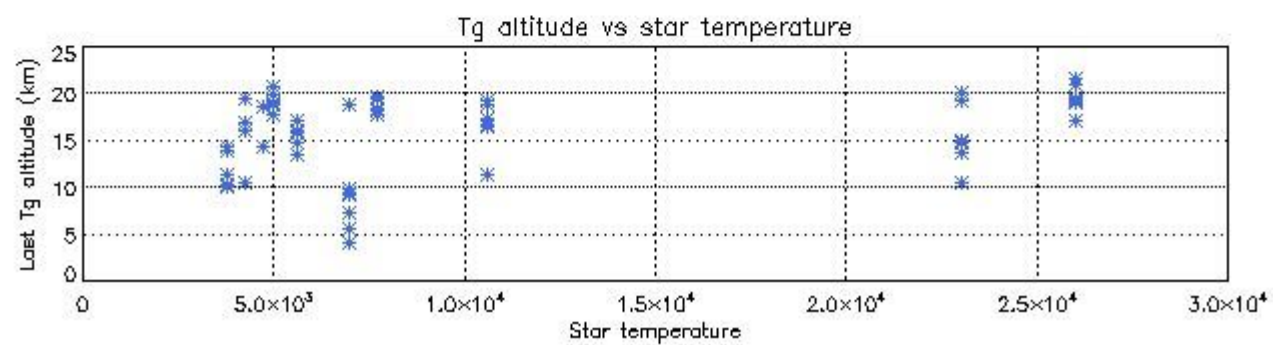
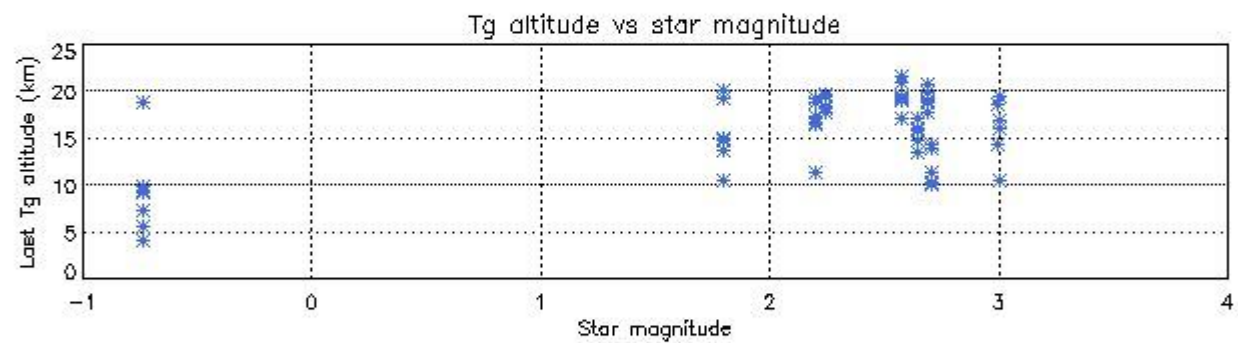
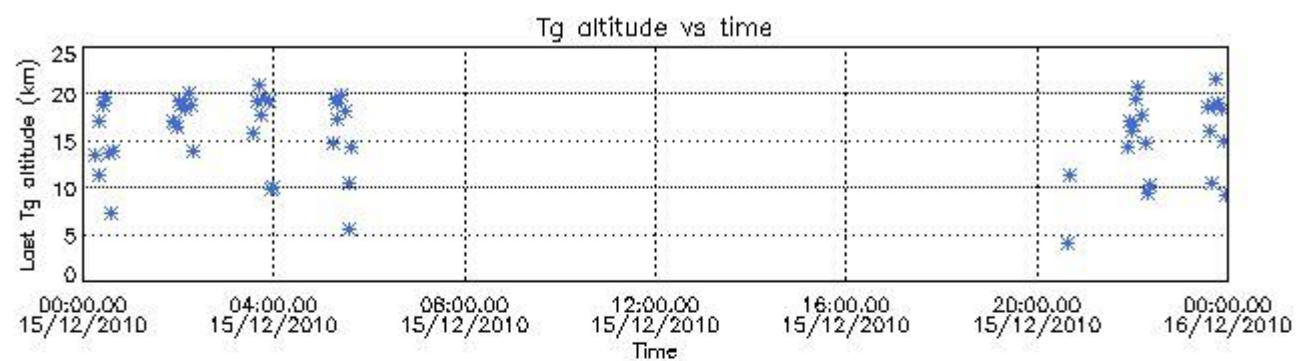
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.728	17.724	15.895
St. deviation:	4.1592	6.8293	1.3185
Maximum:	21.651	26.825	17.343
Minimum:	4.0456	3.3950	14.763
Number of data:	55.000	60.000	3.0000

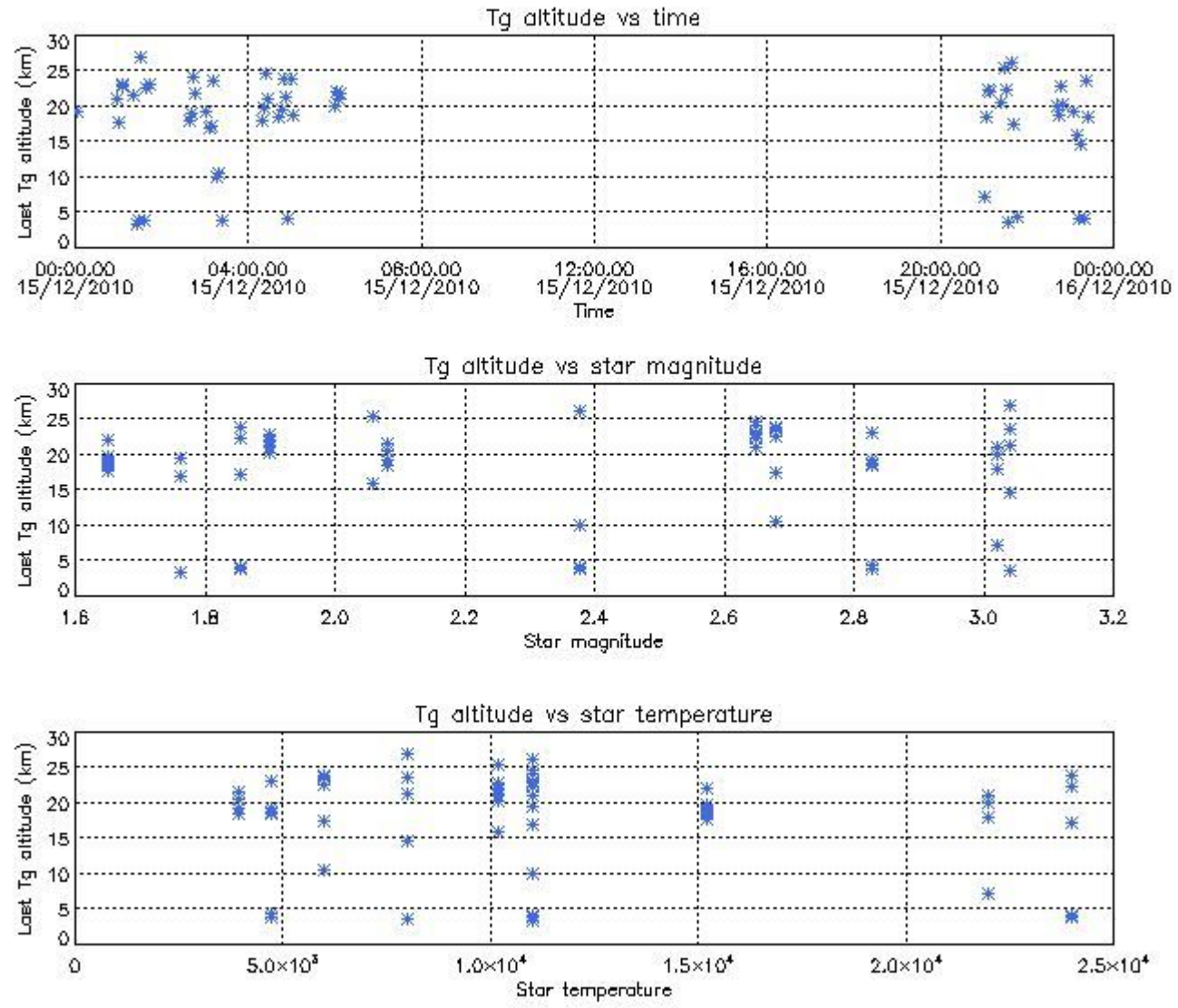
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

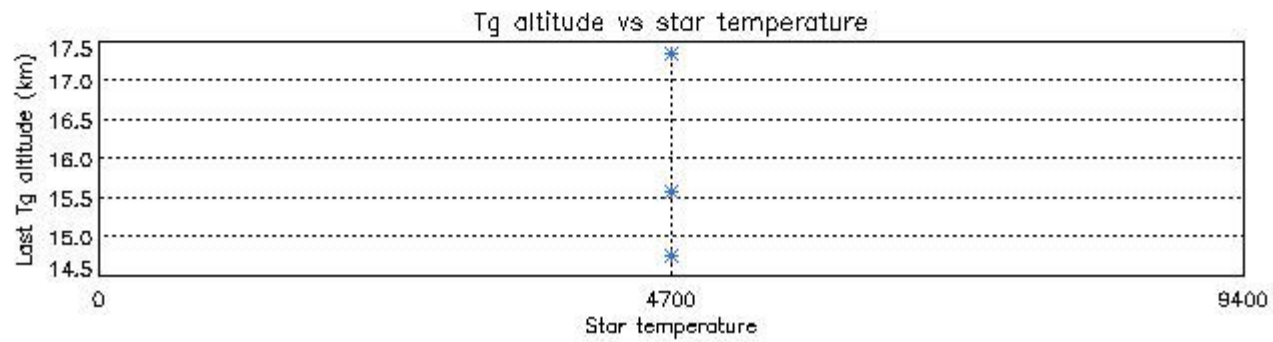
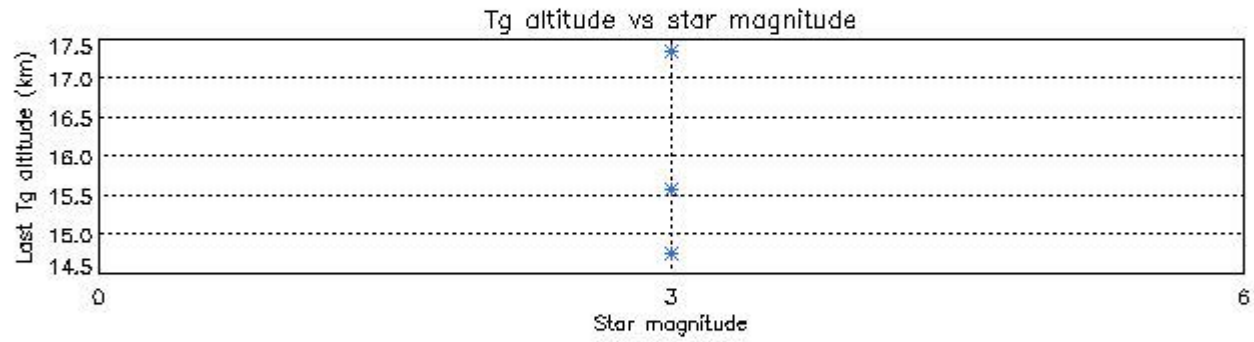
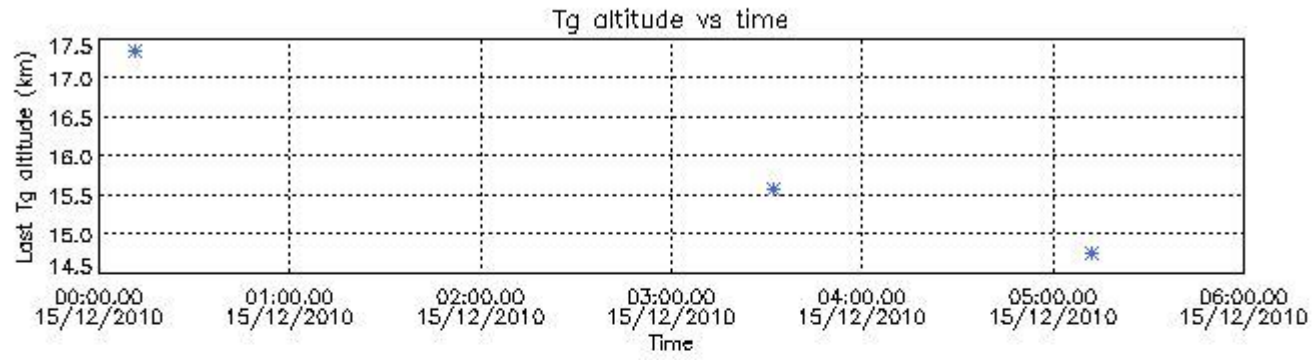
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

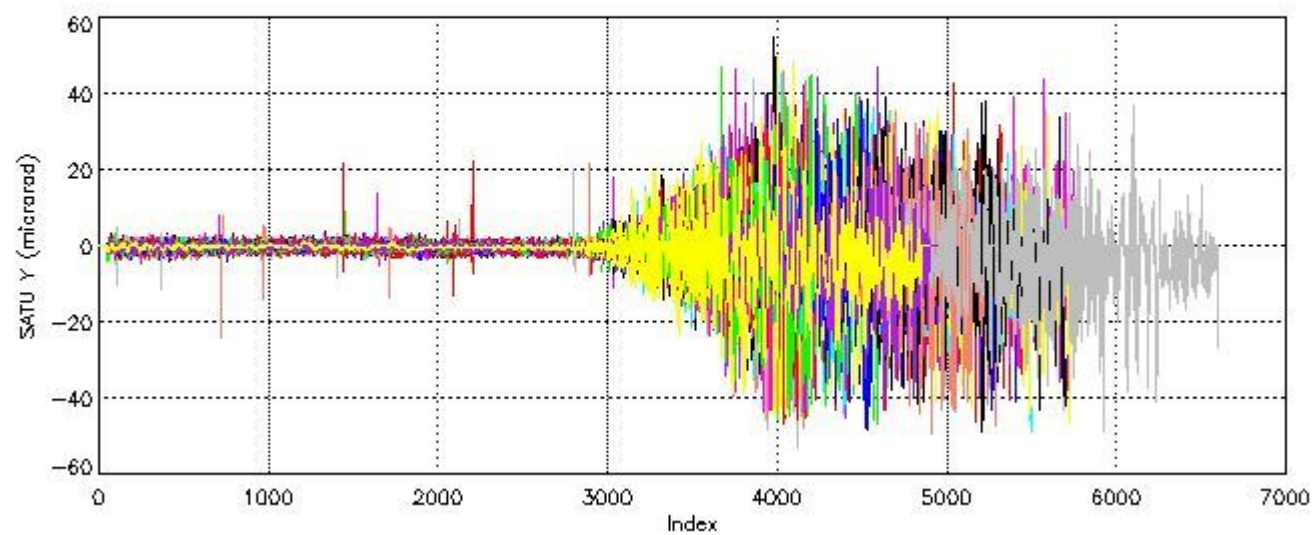
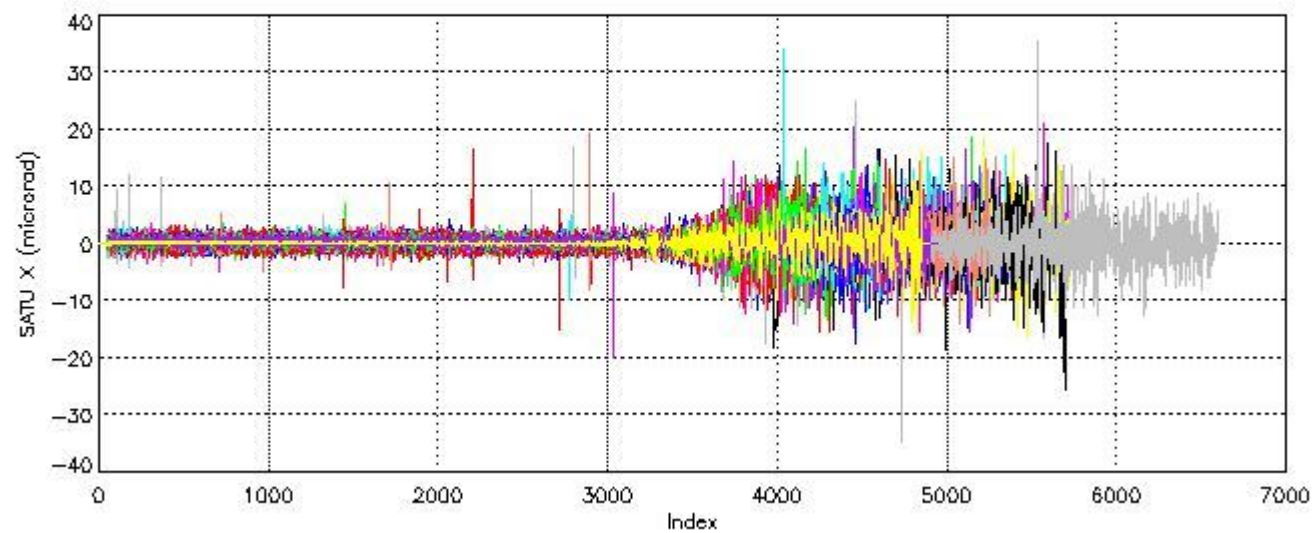


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20802	-0.32352	0.14860	-0.24057
St. deviation:	0.53941	0.71818	0.86927	0.98659
Maximum:	12.000	7.9000	6.6000	5.8000
Minimum:	-5.0000	-24.300	-5.0000	-6.7000

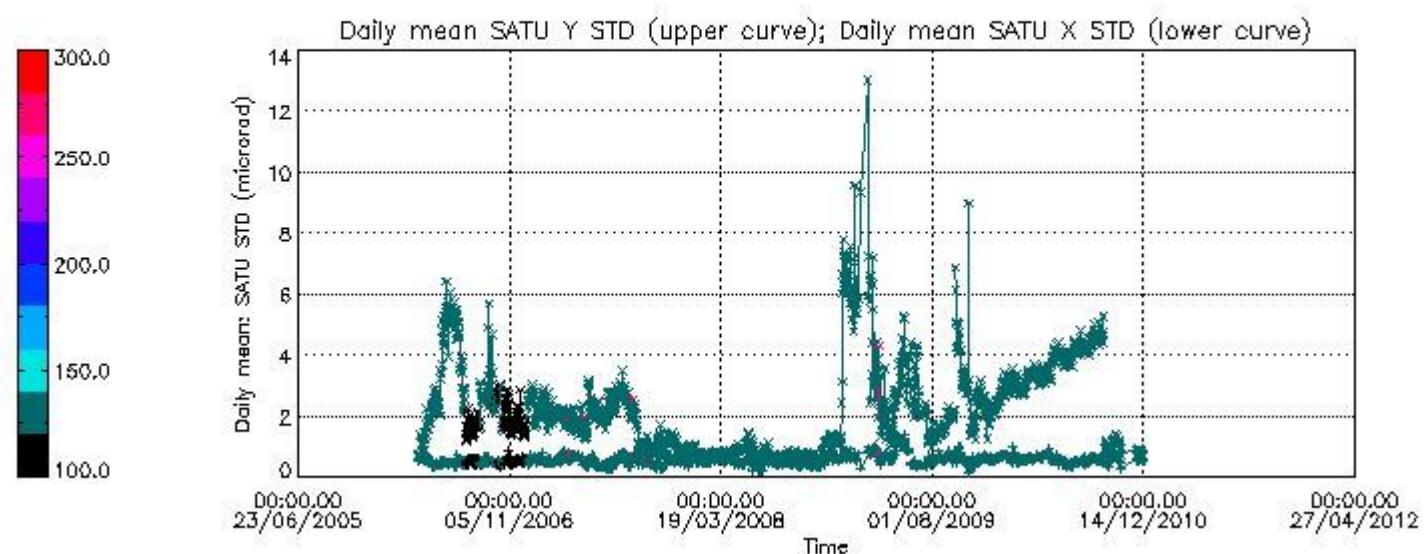
Number of data:	59750.	59750.	60500.	60500.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

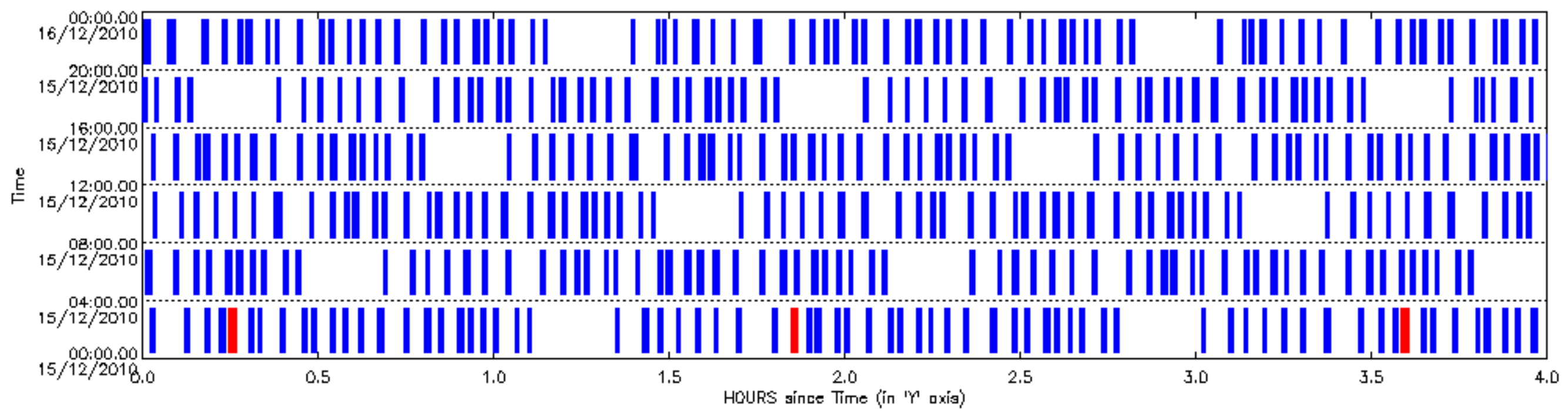


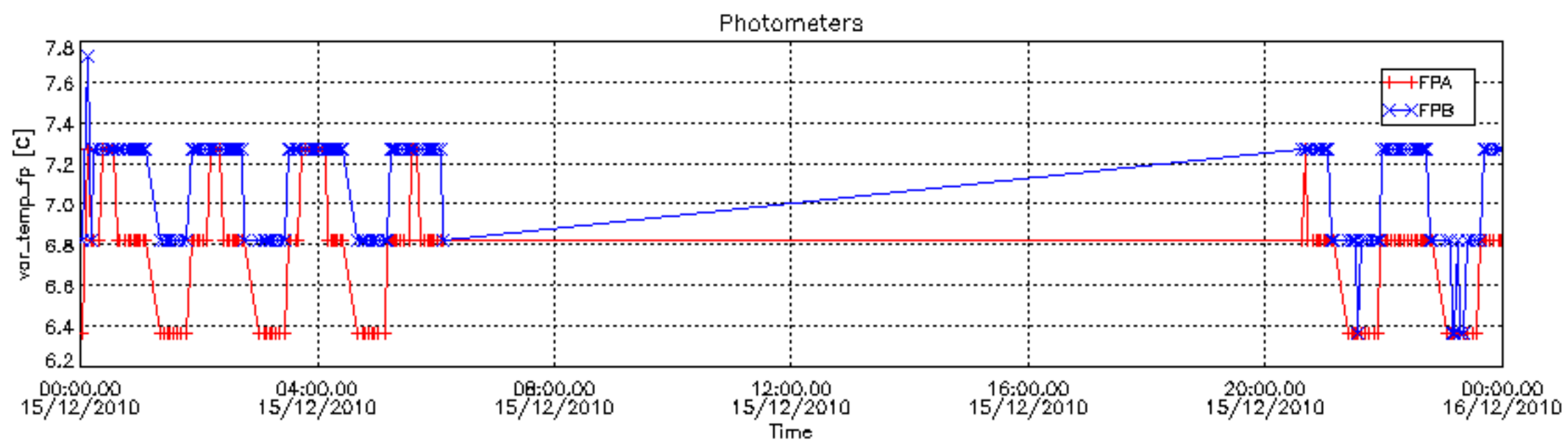
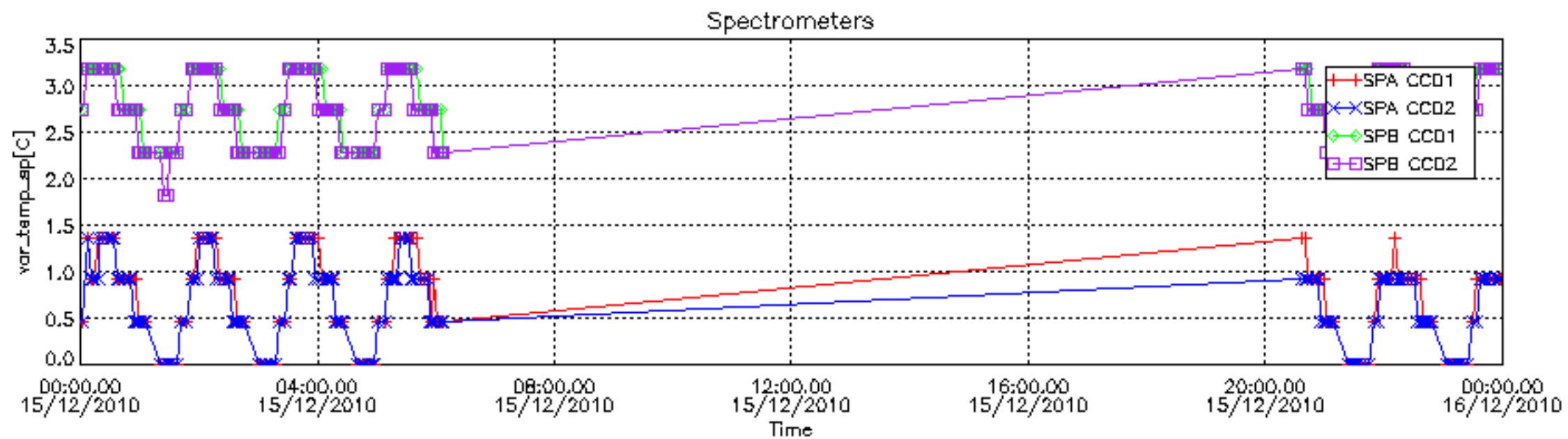
### 8. Auxiliary Data Files used for the production reported in section 2.4

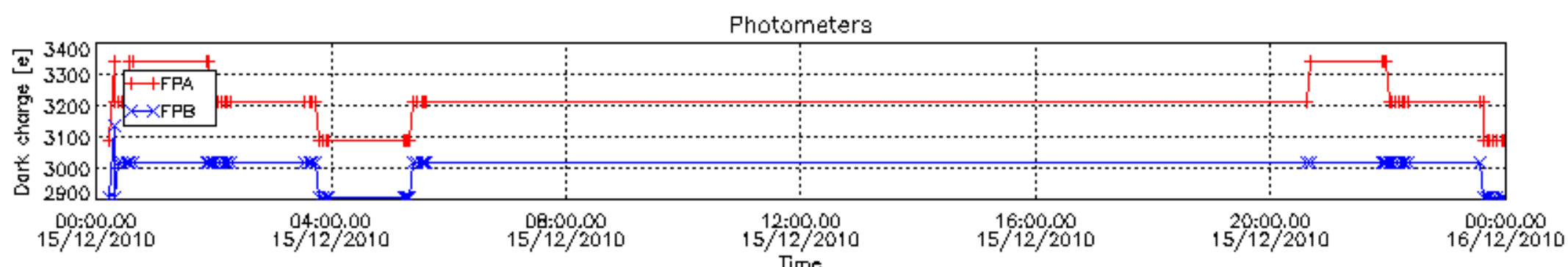
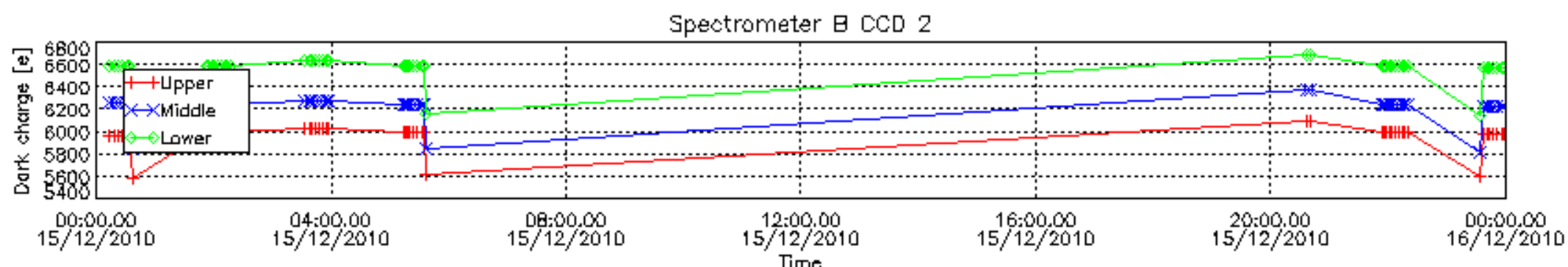
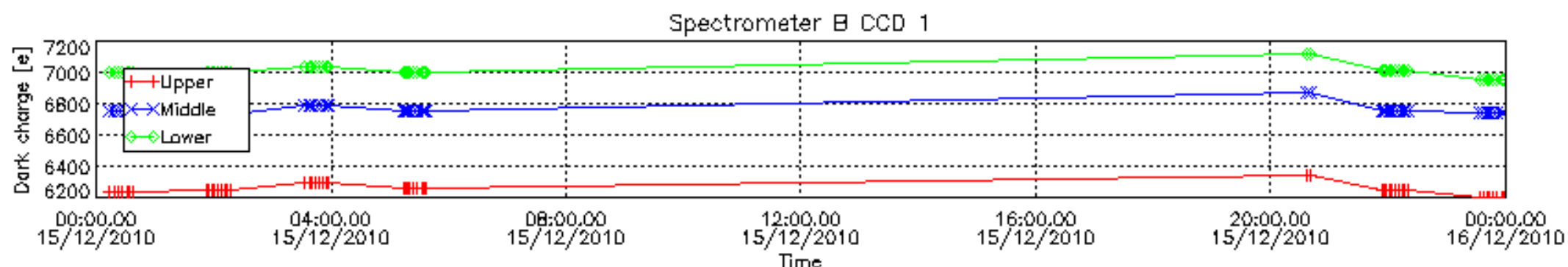
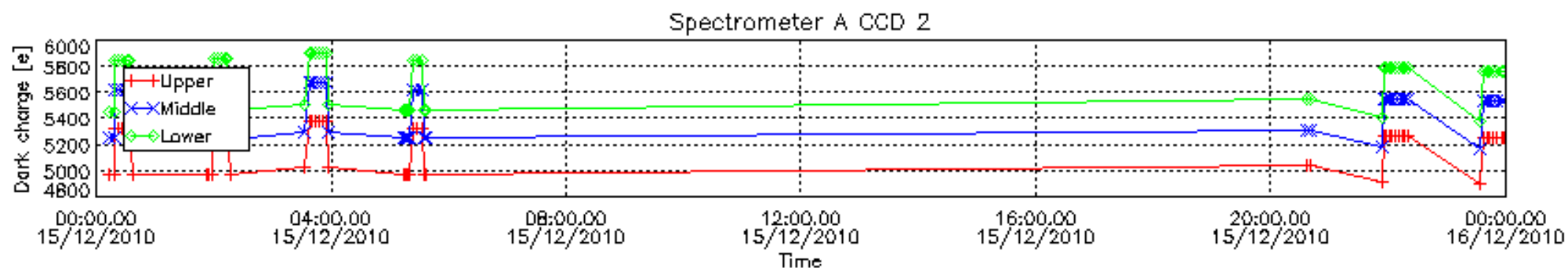
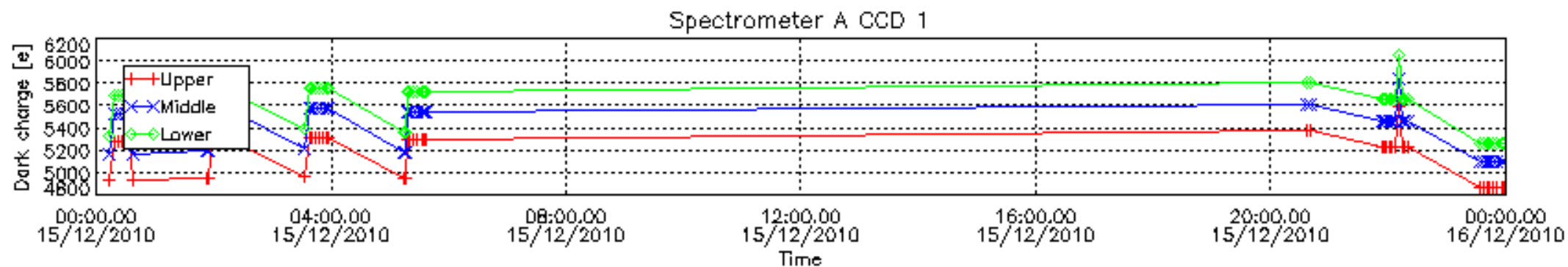
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-DEC-2010 00:01:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101214_130634_20101212_000000_20500101_000000	1	15-DEC-2010 00:01:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-DEC-2010 00:01:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-DEC-2010 00:01:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-DEC-2010 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20101214_054115_20101214_210000_20101215_090000	1	15-DEC-2010 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20101214_174115_20101215_030000_20101215_150000	49	15-DEC-2010 03:00:56
ECMWF_FILE	AUX_ECF_AXNECM20101215_054116_20101215_150000_20101216_030000	104	15-DEC-2010 20:37:00
ECMWF_FILE	AUX_ECF_AXNECM20101215_054117_20101215_210000_20101216_090000	124	15-DEC-2010 21:50:25
OPTIONAL_ECMWF_FILE	MISSING	1	15-DEC-2010 00:01:16
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_000249_000057383097_00260_45964_2130.N1	2	15-DEC-2010 00:07:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_014346_000041443097_00261_45965_2131.N1	29	15-DEC-2010 01:47:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_025809_000057383097_00262_45966_2132.N1	49	15-DEC-2010 03:00:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_043906_000057383097_00263_45967_2133.N1	76	15-DEC-2010 04:41:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101214_102113_20101213_195518_20101223_202857	104	15-DEC-2010 20:37:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_214951_000054193097_00273_45977_2135.N1	124	15-DEC-2010 21:50:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101215_232529_000057383097_00274_45978_2136.N1	153	15-DEC-2010 23:30:39

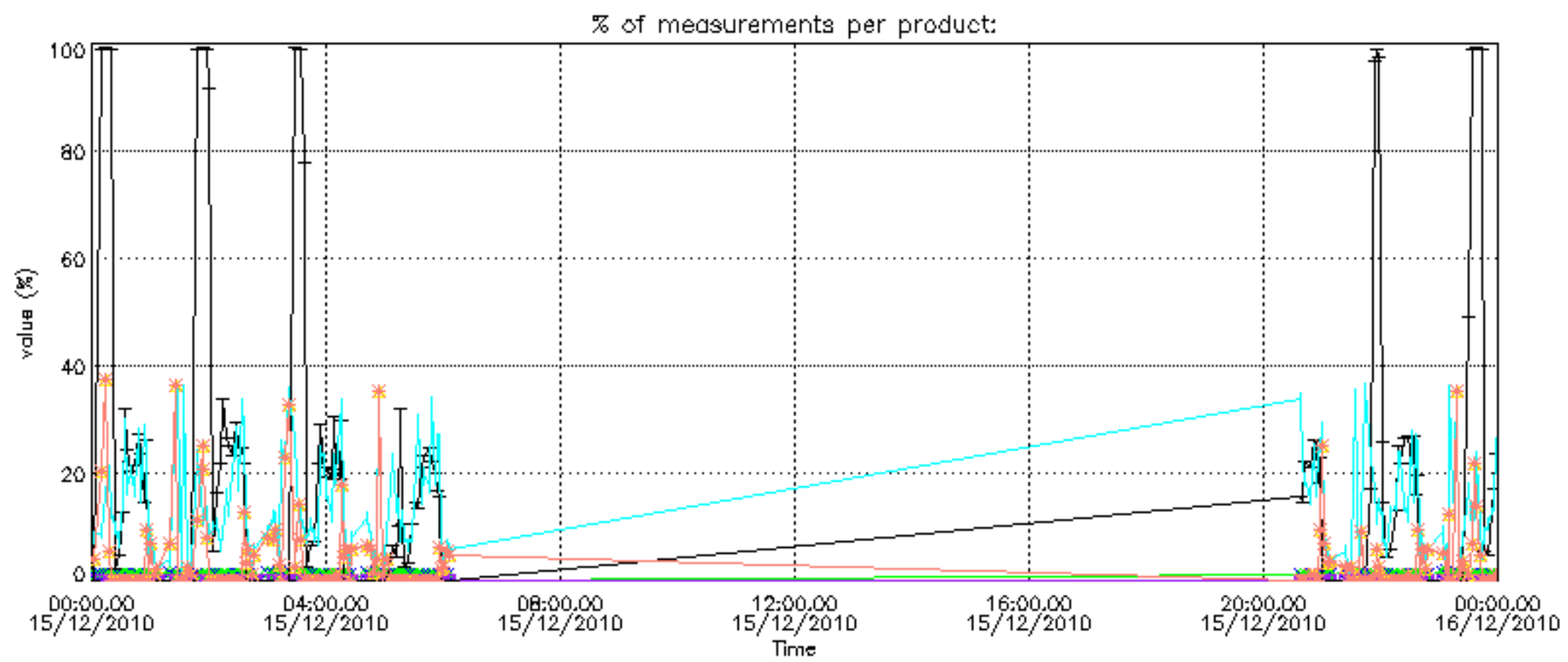
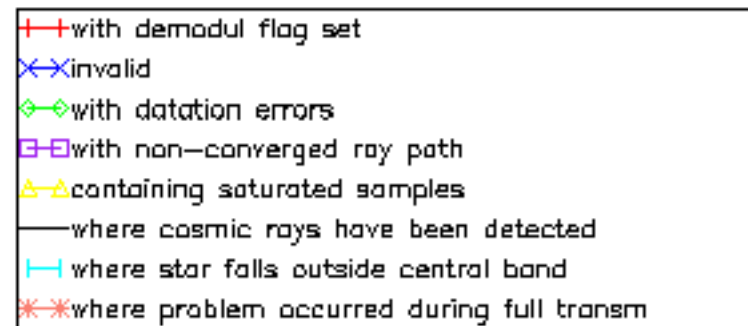




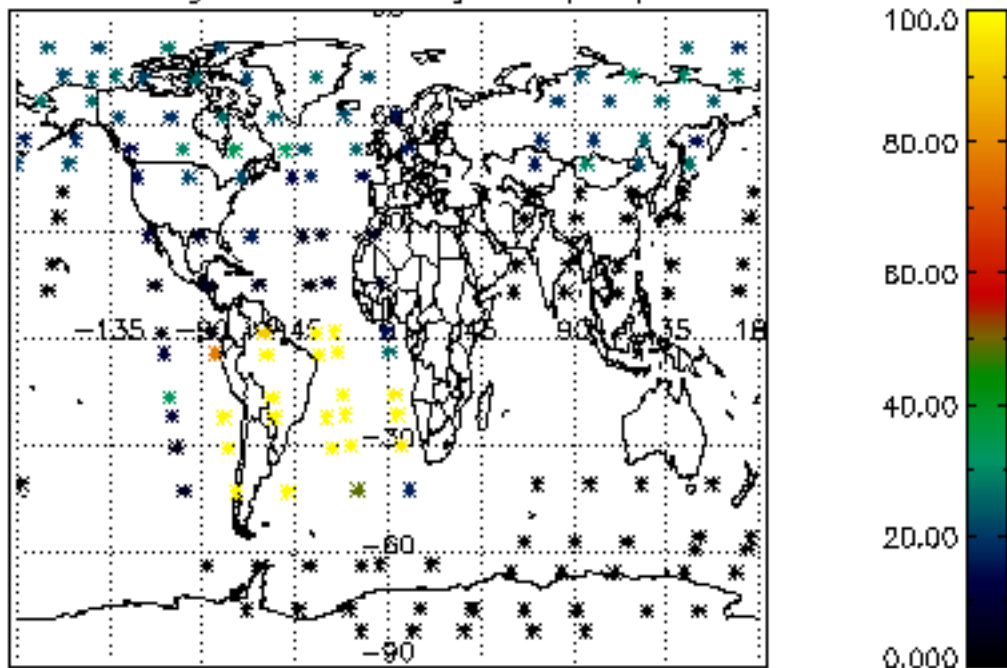




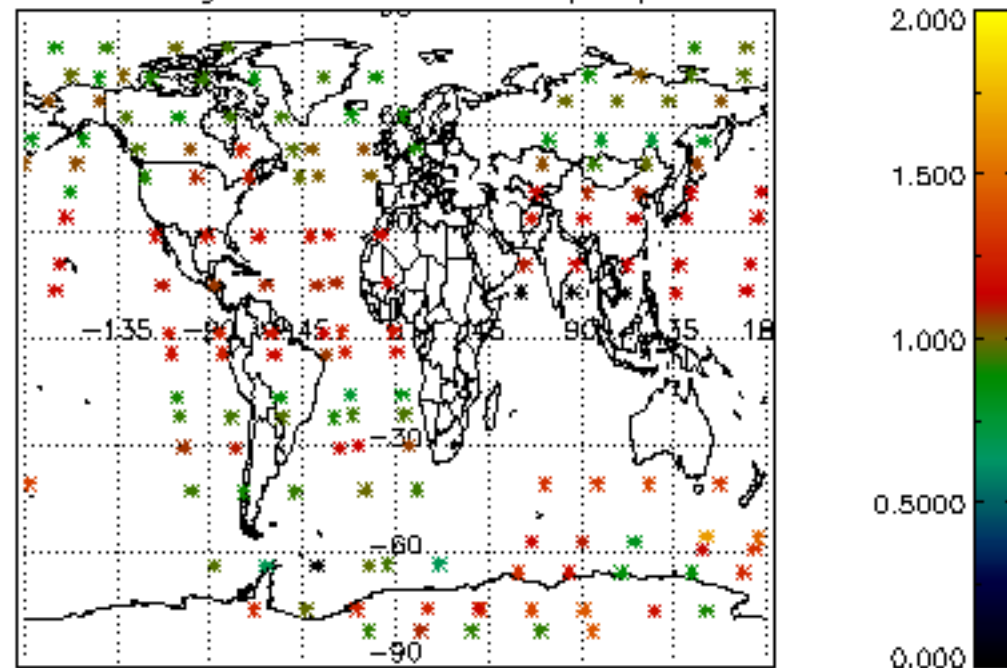




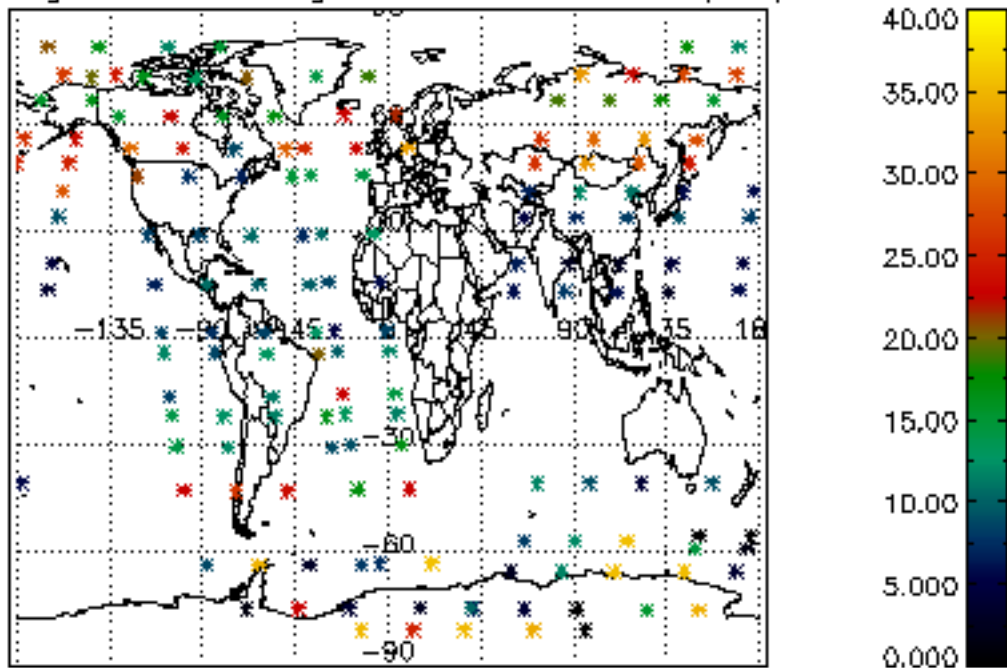
Percentage of cosmic ray hits per profile



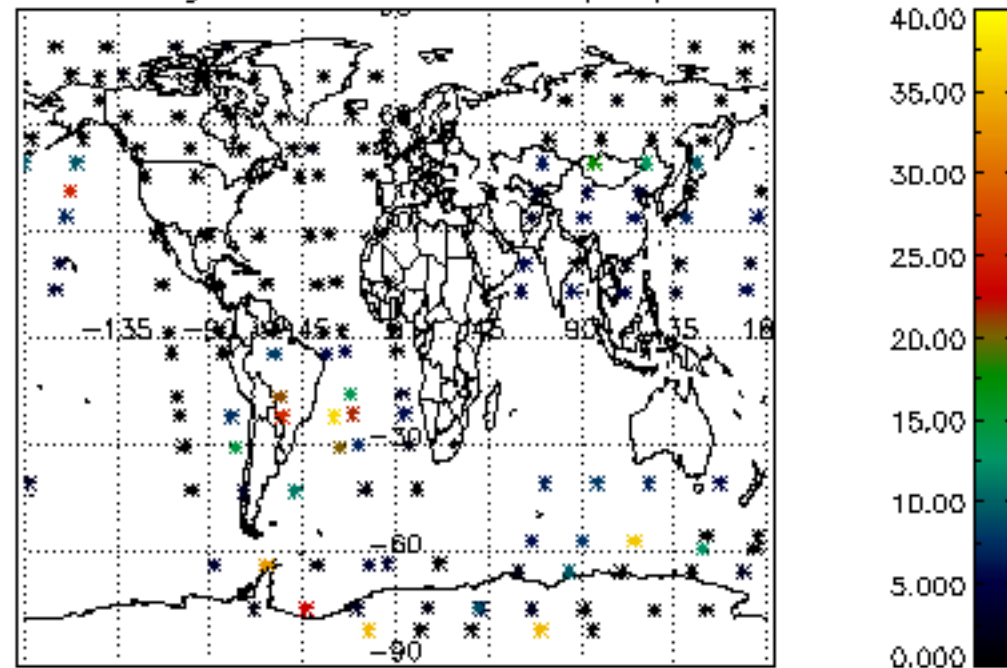
Percentage of datation errors per profile



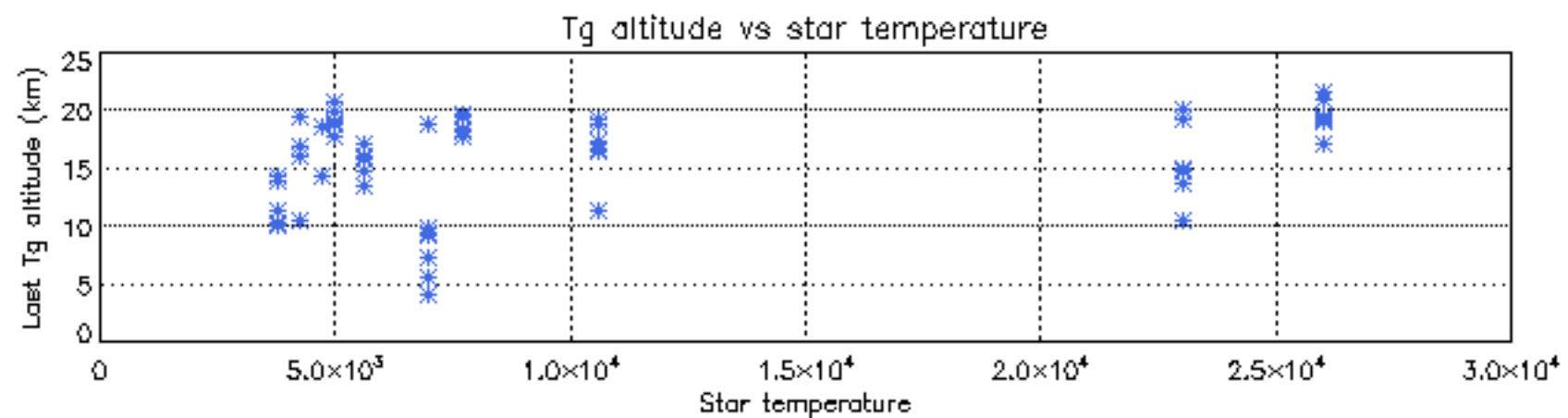
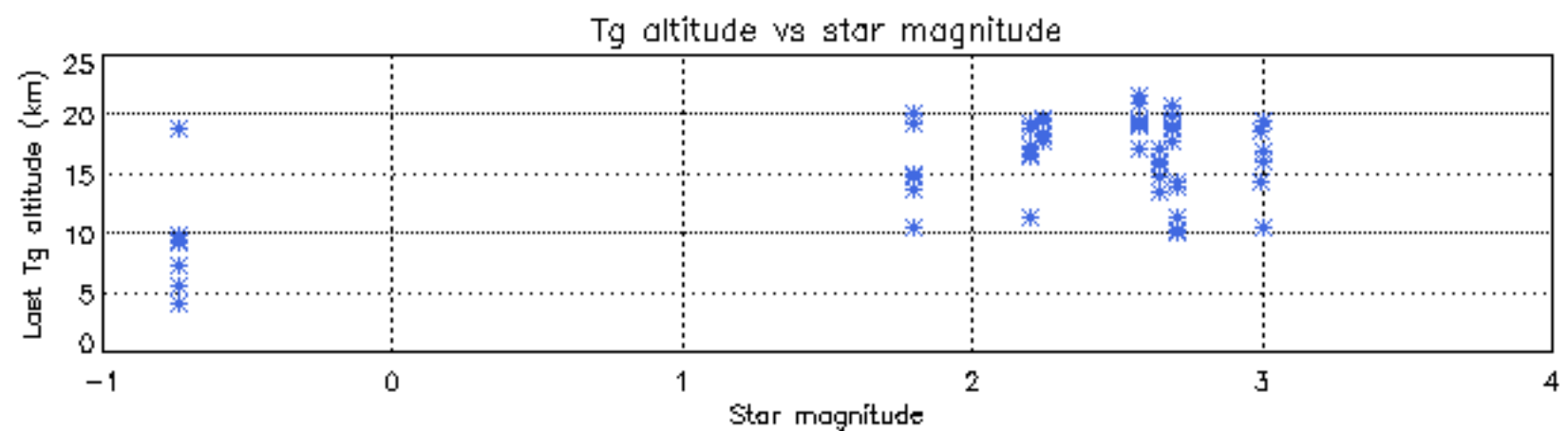
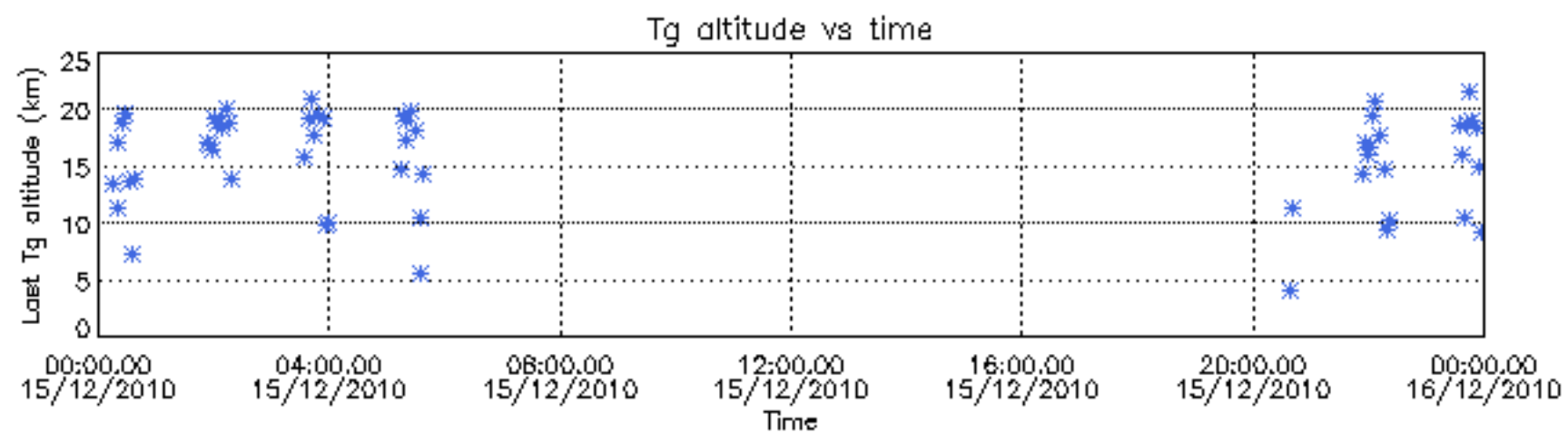
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

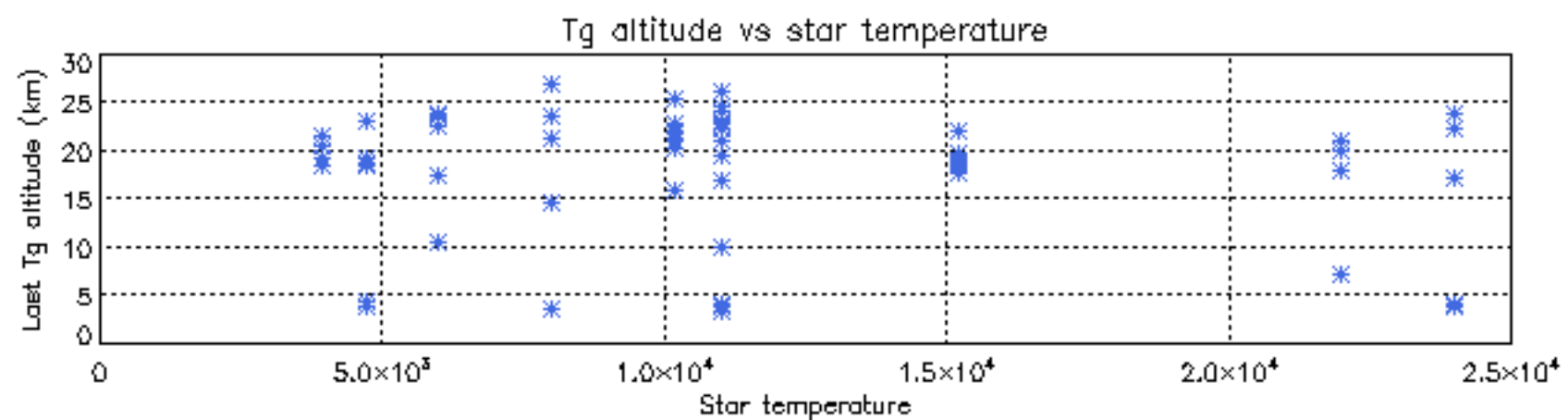
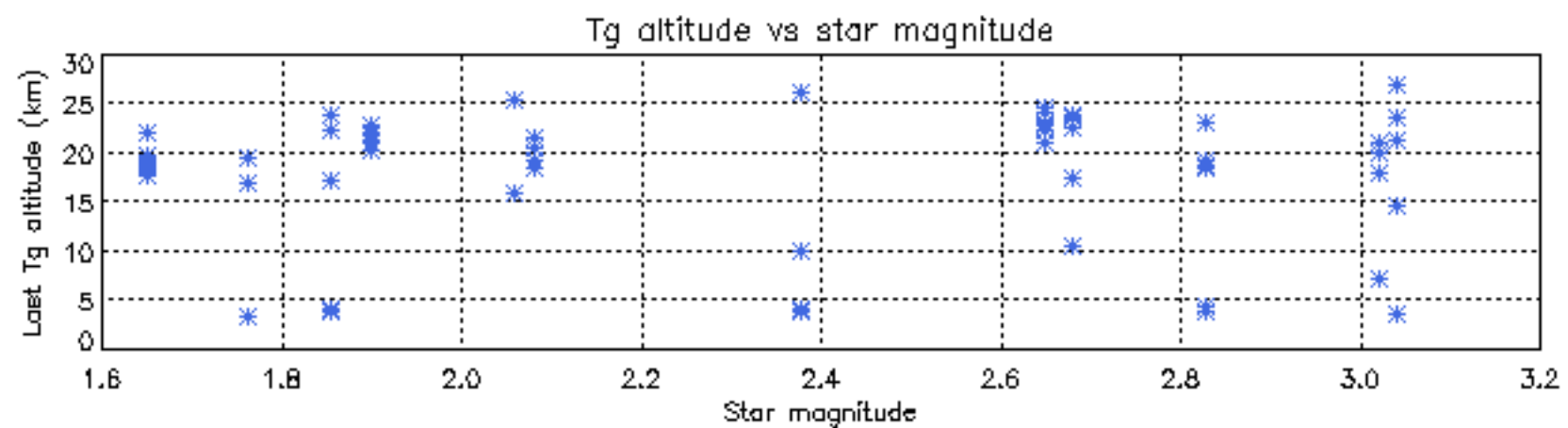
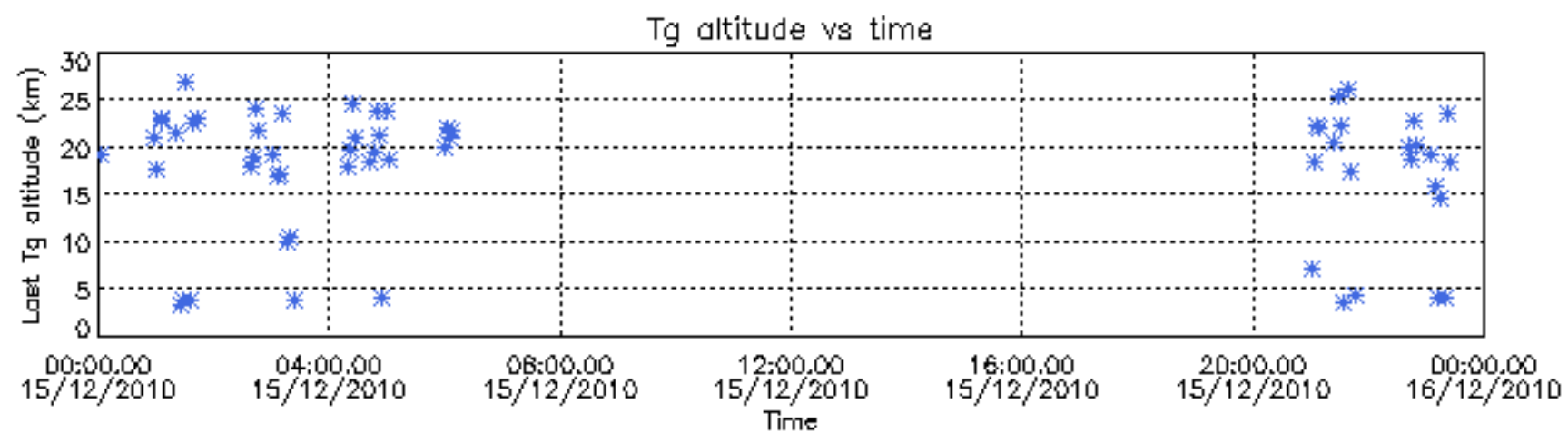


Tangent altitude at which the star is lost

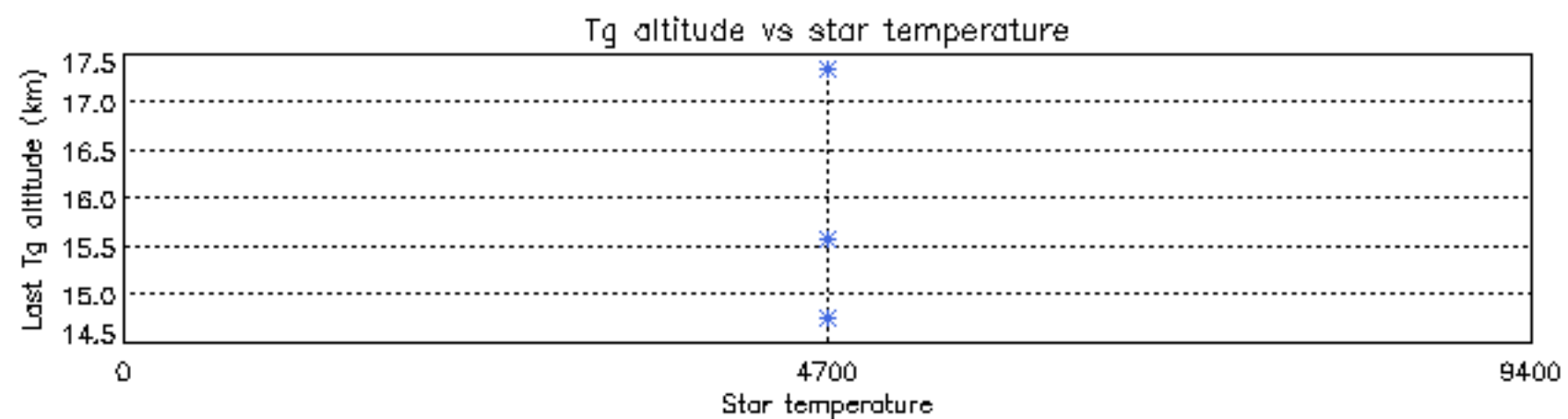
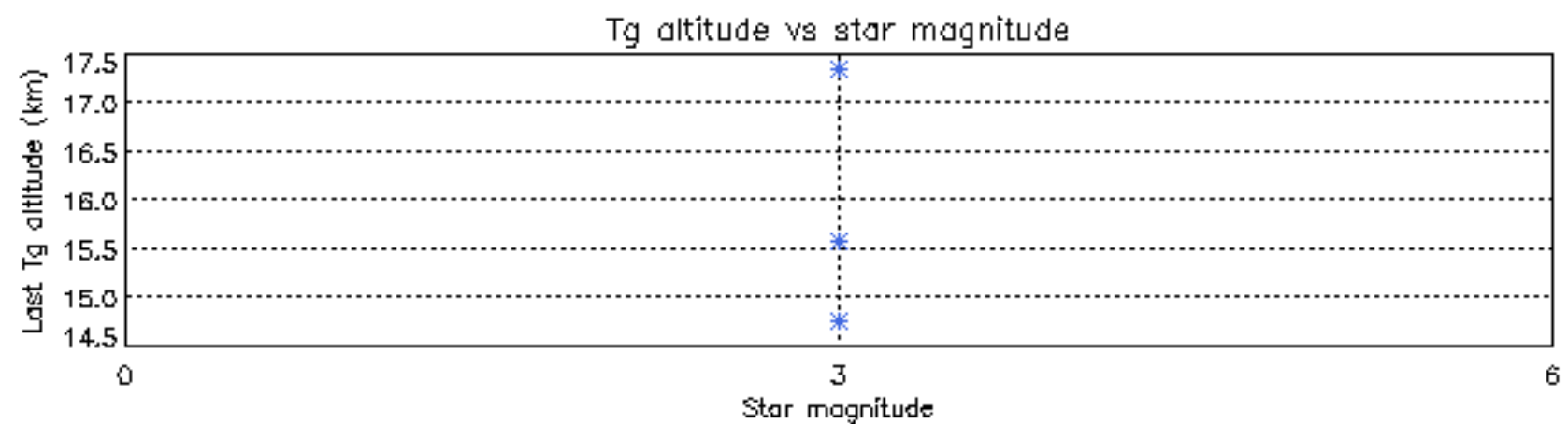
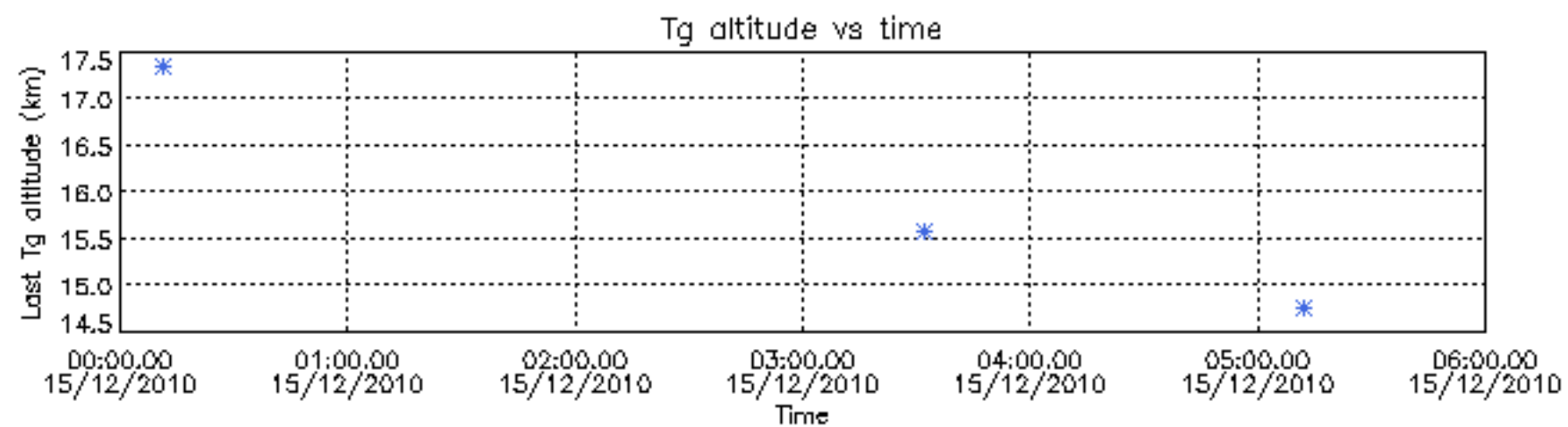


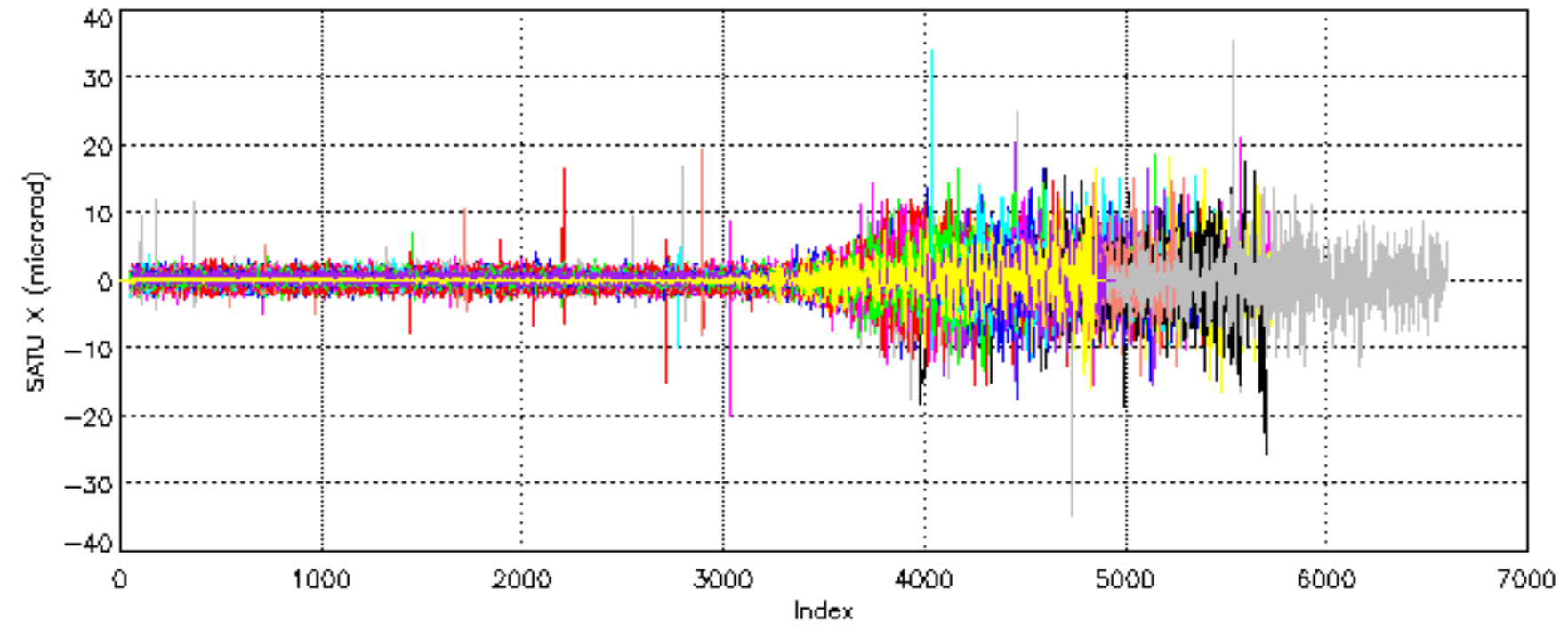


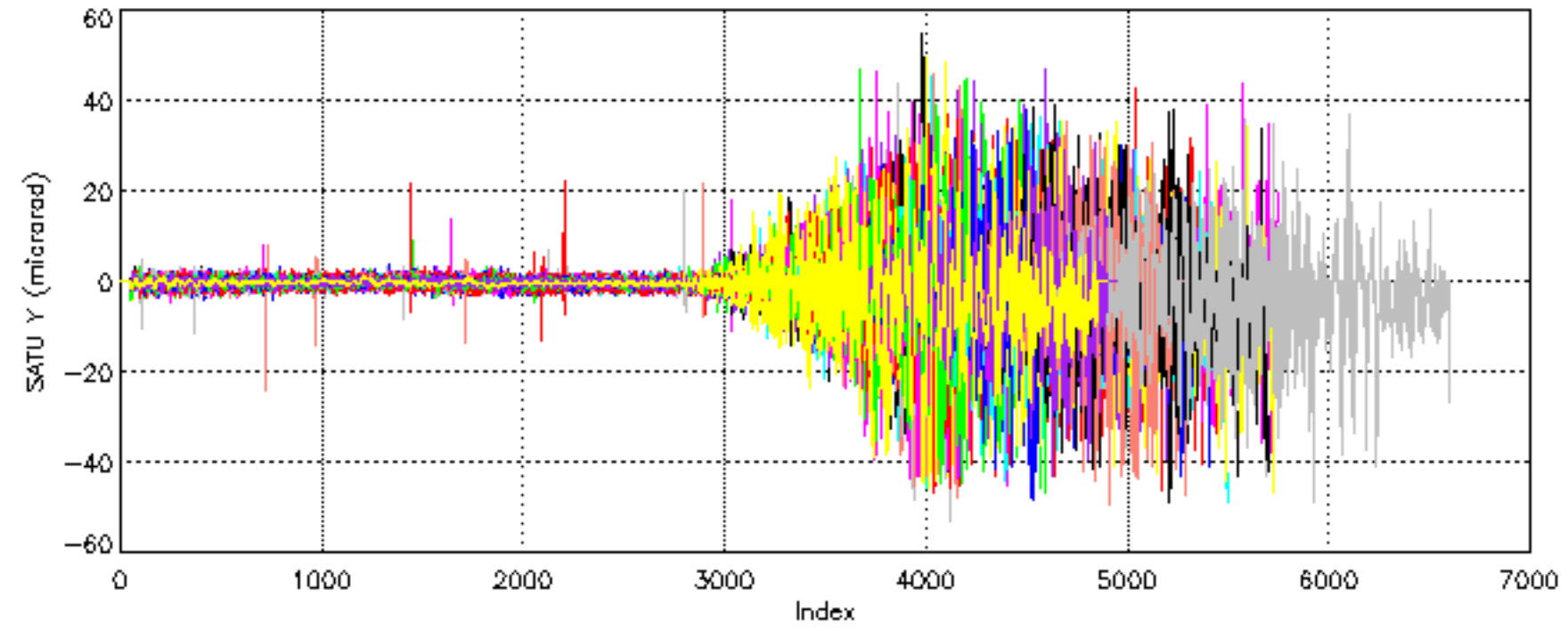
Tangent altitude at which the star is lost



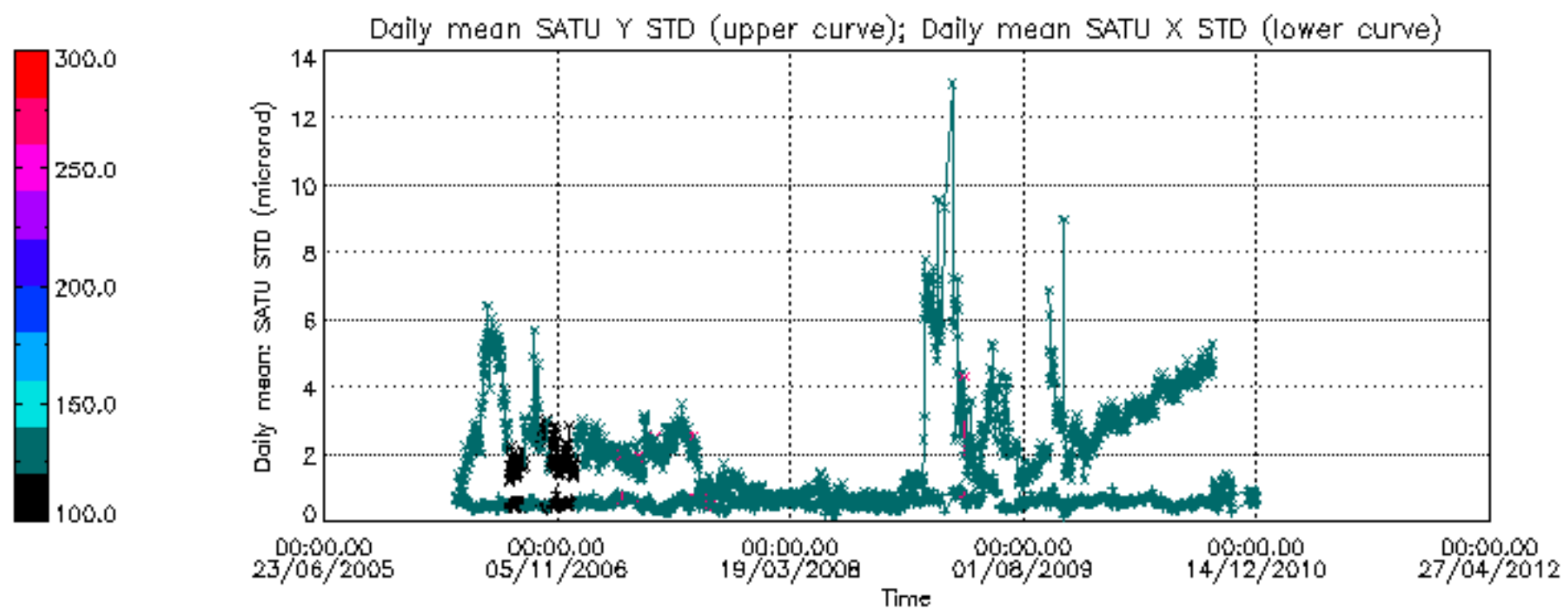
Tangent altitude at which the star is lost











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17; 2940.4; 01-DEC-2010 01:21:17; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45764  
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20; 3994.3; 01-DEC-2010 01:38:51; Bright; 38.0; 32; 77Eps UMA ; 1.76; 11000;occ; 76; 0;45764  
21; 4165.0; 01-DEC-2010 01:41:42; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;45764  
22; 4326.2; 01-DEC-2010 01:44:23; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;45764  
23; 4896.6; 01-DEC-2010 01:53:53; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;45764  
24; 5095.3; 01-DEC-2010 01:57:12; Bright; 23.5; 121; 29Gam Vir ; 2.74; 7200;occ; 47; 0;45764

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4; 596.6; 01-DEC-2010 02:22:27; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45765  
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6; 908.6; 01-DEC-2010 02:27:39; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;45765  
7; 1182.1; 01-DEC-2010 02:32:13; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45765  
8; 1523.4; 01-DEC-2010 02:37:54; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;45765  
9; 1739.4; 01-DEC-2010 02:41:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;45765  
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14; 2722.2; 01-DEC-2010 02:57:53; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45765  
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10; 82.7; 01-DEC-2010 03:54:07; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;45766  
11; 406.4; 01-DEC-2010 03:59:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45766  
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3;-2019.9; 01-DEC-2010 04:59:19; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;45766
4;-1849.5; 01-DEC-2010 05:02:09; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;45766
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 4; -1685.9; 03-DEC-2010 07:11:54; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;45796  
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 7; 2593.8; 03-DEC-2010 08:23:14; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;45797  
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 15; 4849.1; 03-DEC-2010 09:00:49; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45797  
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 22; 6829.4; 03-DEC-2010 09:33:49; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45798  
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7; 2449.4; 03-DEC-2010 11:41:17; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45799
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7; 2445.6; 05-DEC-2010 02:06:36; Bright; 20.0; 150; 44Zet Per ; 2.89; 28000;occ; 40; 0;45822
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13; 4120.1; 05-DEC-2010 02:34:30; Bright; 48.5; 39; 85Eta UMa ; 1.85; 24000;occ; 97; 50;45822
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16; 4862.1; 05-DEC-2010 02:46:52; Bright; 23.5; 138; 47Eps Vir ; 2.83; 4700;occ; 47; 17;45822
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 16; 4120.2; 06-DEC-2010 22:00:36; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45848  
 17; 4330.3; 06-DEC-2010 22:04:06; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;45848  
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 19; 4871.1; 06-DEC-2010 22:13:06; Bright; 45.5; 138; 47Eps Vir ; 2.83; 4700;occ; 91; 0;45848  
 20; 5149.7; 06-DEC-2010 22:17:45; Dark ; 52.5; 121; 29Gam Vir ; 2.74; 7200;occ; 105; 0;45848

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 3; -50.6; 06-DEC-2010 22:31:19; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45848  
 4; 149.5; 06-DEC-2010 22:34:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45849  
 5; 475.2; 06-DEC-2010 22:40:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45849  
 6; 668.3; 06-DEC-2010 22:43:18; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;45849  
 7; 840.1; 06-DEC-2010 22:46:09; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45849  
 8; 974.5; 06-DEC-2010 22:48:24; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;45849  
 9; 1214.5; 06-DEC-2010 22:52:24; Dark ; 44.5; 108; Alp Col ; 2.65; 15200;occ; 89; 0;45849  
 10; 1535.6; 06-DEC-2010 22:57:45; Dark ; 51.5; 101; 11Alp Lep ; 2.58; 7000;occ; 103; 0;45849  
 11; 1735.8; 06-DEC-2010 23:01:05; Dark ; 57.5; 7; 19Bet Ori ; 0.10; 14000;occ; 115; 0;45849  
 12; 1893.4; 06-DEC-2010 23:03:43; Dark ; 54.0; 30; 46Eps Ori ; 1.69; 30000;occ; 108; 0;45849  
 13; 2045.6; 06-DEC-2010 23:06:15; Dark ; 52.5; 27; 24Gam Ori ; 1.64; 26000;occ; 105; 0;45849  
 14; 2194.7; 06-DEC-2010 23:08:44; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45849  
 15; 2306.0; 06-DEC-2010 23:10:35; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;45849  
 16; 2442.1; 06-DEC-2010 23:12:51; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45849  
 17; 2525.7; 06-DEC-2010 23:14:15; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45849  
 18; 2709.9; 06-DEC-2010 23:17:19; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45849  
 19; 2866.6; 06-DEC-2010 23:19:56; Bright; 46.0; 42; 34Bet Aur ; 1.90; 10200;occ; 92; 0;45849  
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 22; 3984.9; 06-DEC-2010 23:38:34; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;45849  
 23; 4120.1; 06-DEC-2010 23:40:49; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;45849  
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 25; 4671.5; 06-DEC-2010 23:50:01; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45849  
 26; 4871.5; 06-DEC-2010 23:53:21; Bright; 44.0; 138; 47Eps Vir ; 2.83; 4700;occ; 88; 0;45849  
 27; 5150.4; 06-DEC-2010 23:58:00; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45849

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 4; -1893.8; 06-DEC-2010 06:58:29; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45839  
 5; -1684.0; 06-DEC-2010 07:01:59; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;45839  
 6; -1345.0; 06-DEC-2010 07:07:38; Bright; 36.0; 111; 8Eta Boo ; 2.68; 6000;occ; 72; 0;45839  
 7; -1146.9; 06-DEC-2010 07:10:56; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45839  
 8; -870.5; 06-DEC-2010 07:15:33; Dark ; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;45839  
 9; -514.6; 06-DEC-2010 07:21:28; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45839  
 10; -418.3; 06-DEC-2010 07:23:05; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;45839  
 11; 142.2; 06-DEC-2010 07:32:25; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;45840  
 12; 467.8; 06-DEC-2010 07:37:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45840  
 13; 661.0; 06-DEC-2010 07:41:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45840  
 14; 836.1; 06-DEC-2010 07:43:59; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;45840  
 15; 967.9; 06-DEC-2010 07:46:11; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;45840  
 16; 1211.5; 06-DEC-2010 07:50:15; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;45840  
 17; 1534.6; 06-DEC-2010 07:55:38; Dark ; 48.0; 101; 11Alp Lep ; 2.58; 7000;occ; 96; 0;45840

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 3; 2049.0; 06-DEC-2010 08:04:12; Dark ; 56.0; 27; 24Gam Ori ; 1.64; 26000;occ; 112; 0;45840  
 4; 2196.9; 06-DEC-2010 08:06:40; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45840  
 5; 2306.6; 06-DEC-2010 08:08:30; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;45840  
 6; 2443.4; 06-DEC-2010 08:10:46; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45840  
 7; 2529.7; 06-DEC-2010 08:12:13; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45840  
 8; 2711.1; 06-DEC-2010 08:15:14; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45840  
 9; 2873.9; 06-DEC-2010 08:17:57; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45840

10; 3772.8; 06-DEC-2010 08:32:56; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;45840  
 11; 3865.6; 06-DEC-2010 08:34:29; Bright; 47.0; 82; 48Bet UMA ; 2.37; 10600;occ; 94; 0;45840  
 12; 3986.2; 06-DEC-2010 08:36:29; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;45840  
 13; 4120.3; 06-DEC-2010 08:38:43; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;45840  
 14; 4330.0; 06-DEC-2010 08:42:13; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45840  
 15; 4669.4; 06-DEC-2010 08:47:52; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45840  
 16; 4867.7; 06-DEC-2010 08:51:11; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45840  
 17; 5144.0; 06-DEC-2010 08:55:47; Dark ; 52.0; 121; 29Gam Vir ; 2.74; 7200;occ; 104; 0;45840  
 18; 5500.3; 06-DEC-2010 09:01:43; Dark ; 51.0; 100; 4Gam Crv ; 2.58; 13100;occ; 102; 0;45840  
 19; 5596.7; 06-DEC-2010 09:03:20; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;45840  
 20; 6157.2; 06-DEC-2010 09:12:40; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45841  
 21; 6482.7; 06-DEC-2010 09:18:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45841  
 22; 6675.5; 06-DEC-2010 09:21:19; Dark ; 51.0; 34; Gam2Vel ; 1.79; 23000;occ; 102; 0;45841  
 23; 6850.5; 06-DEC-2010 09:24:14; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;45841  
 24; 6982.9; 06-DEC-2010 09:26:26; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45841  
 25; 7225.8; 06-DEC-2010 09:30:29; Dark ; 42.0; 108; Alp Col ; 2.65; 15200;occ; 84; 0;45841  
 26; 7548.7; 06-DEC-2010 09:35:52; Dark ; 49.5; 101; 11Alp Lep ; 2.58; 7000;occ; 99; 0;45841

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1; 1736.3; 06-DEC-2010 09:39:13; Dark ; 63.0; 7; 19Bet Ori ; 0.10; 14000;occ; 126; 0;45841  
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 3; 2048.6; 06-DEC-2010 09:44:26; Dark ; 54.0; 27; 24Gam Ori ; 1.64; 26000;occ; 108; 0;45841  
 4; 2196.8; 06-DEC-2010 09:46:54; Dark ; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45841  
 5; 2306.6; 06-DEC-2010 09:48:44; Bright; 34.5; 146; 25Eta Tau ; 2.87; 15200;occ; 69; 0;45841  
 6; 2443.3; 06-DEC-2010 09:51:00; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;45841  
 7; 2529.3; 06-DEC-2010 09:52:26; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45841  
 8; 2710.8; 06-DEC-2010 09:55:28; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45841  
 9; 2873.0; 06-DEC-2010 09:58:10; Bright; 32.0; 42; 34Bet Aur ; 1.90; 10200;occ; 64; 0;45841  
 10; 3772.4; 06-DEC-2010 10:13:09; Bright; 47.5; 36; 50Alp UMA ; 1.80; 6300;occ; 95; 0;45841  
 11; 3865.3; 06-DEC-2010 10:14:42; Bright; 45.0; 82; 48Bet UMA ; 2.37; 10600;occ; 90; 0;45841  
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 13; 4120.3; 06-DEC-2010 10:18:57; Bright; 37.0; 39; 85Eta UMA ; 1.85; 24000;occ; 74; 0;45841  
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 16; 4868.1; 06-DEC-2010 10:31:25; Bright; 63.0; 138; 47Eps Vir ; 2.83; 4700;occ; 126; 0;45841  
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 18; 5501.2; 06-DEC-2010 10:41:58; Dark ; 51.5; 100; 4Gam Crv ; 2.58; 13100;occ; 103; 0;45841  
 19; 5597.6; 06-DEC-2010 10:43:35; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45841  
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 21; 6483.4; 06-DEC-2010 10:58:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45842  
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 23; 6850.9; 06-DEC-2010 11:04:28; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45842  
 24; 6983.4; 06-DEC-2010 11:06:41; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;45842  
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 5; 2306.5; 06-DEC-2010 11:28:58; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;45842  
 6; 2443.1; 06-DEC-2010 11:31:14; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45842  
 7; 2528.8; 06-DEC-2010 11:32:40; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;45842  
 8; 2710.9; 06-DEC-2010 11:35:42; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45842  
 9; 2872.3; 06-DEC-2010 11:38:23; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;45842  
 10; 3772.0; 06-DEC-2010 11:53:23; Bright; 43.0; 36; 50Alp UMA ; 1.80; 6300;occ; 86; 0;45842  
 11; 3864.6; 06-DEC-2010 11:54:56; Bright; 48.5; 82; 48Bet UMA ; 2.37; 10600;occ; 97; 0;45842  
 12; 3985.9; 06-DEC-2010 11:56:57; Bright; 41.0; 32; 77Eps UMA ; 1.76; 11000;occ; 82; 0;45842  
 13; 4120.4; 06-DEC-2010 11:59:11; Bright; 38.5; 39; 85Eta UMA ; 1.85; 24000;occ; 77; 0;45842  
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 17; 5145.5; 06-DEC-2010 12:16:17; Dark ; 50.5; 121; 29Gam Vir ; 2.74; 7200;occ; 101; 0;45842  
 18; 5502.1; 06-DEC-2010 12:22:13; Dark ; 48.5; 100; 4Gam Crv ; 2.58; 13100;occ; 97; 0;45842  
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 21; 6484.3; 06-DEC-2010 12:38:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45843  
 22; 6677.4; 06-DEC-2010 12:41:49; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;45843  
 23; 6851.4; 06-DEC-2010 12:44:42; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;45843



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7; 2443.0; 06-DEC-2010 13:11:28; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;45843
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19; 5503.4; 06-DEC-2010 14:02:28; Dark ; 52.0; 100; 4Gam Crv ; 2.58; 13100;occ; 104; 0;45843
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22; 6485.1; 06-DEC-2010 14:18:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45844
23; 6678.3; 06-DEC-2010 14:22:03; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;45844
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17; 1536.3; 07-DEC-2010 03:58:28; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;45852

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 22; 2306.0; 07-DEC-2010 04:11:17; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;45852  
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 14; 671.5; 07-DEC-2010 05:24:17; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;45853  
 15; 842.2; 07-DEC-2010 05:27:08; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;45853  
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 17; 1216.0; 07-DEC-2010 05:33:21; Dark ; 43.5; 108; Alp Col ; 2.65; 15200;occ; 87; 0;45853  
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 23; 2306.1; 07-DEC-2010 05:51:32; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45853  
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 25; 2524.1; 07-DEC-2010 05:55:09; Bright; 42.0; 114; 3Iot Aur ; 2.69; 4600;occ; 84; 0;45853  
 26; 2709.6; 07-DEC-2010 05:58:15; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45853  
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 9; -501.0; 07-DEC-2010 06:44:58; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;45853  
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 12; 154.0; 07-DEC-2010 06:55:54; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45854  
 13; 479.2; 07-DEC-2010 07:01:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45854  
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 15; 842.6; 07-DEC-2010 07:07:22; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45854  
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17; 4874.1; 07-DEC-2010 08:14:34; Bright; 57.0; 138; 47Eps Vir ; 2.83; 4700;occ; 114; 0;45854
18; 5154.2; 07-DEC-2010 08:19:14; Dark ; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;45854
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27; 6992.9; 07-DEC-2010 08:49:52; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;45855
28; 7230.7; 07-DEC-2010 08:53:50; Dark ; 44.0; 108; Alp Col ; 2.65; 15200;occ; 88; 0;45855
29; 7550.8; 07-DEC-2010 08:59:10; Dark ; 50.5; 101; 11Alp Lep ; 2.58; 7000;occ; 101; 0;45855
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 18; 5156.7; 07-DEC-2010 13:19:58; Dark ; 51.5; 121; 29Gam Vir ; 2.74; 7200;occ; 103; 0;45857  
 19; 5432.3; 07-DEC-2010 13:24:34; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;45857  
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 21; 5613.4; 07-DEC-2010 13:27:35; Dark ; 54.5; 171; 2Eps Crv ; 3.00; 4250;occ; 109; 0;45857  
 22; 5968.9; 07-DEC-2010 13:33:30; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45857  
 23; 6171.3; 07-DEC-2010 13:36:53; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45858  
 24; 6496.5; 07-DEC-2010 13:42:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45858  
 25; 6689.7; 07-DEC-2010 13:45:31; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;45858  
 26; 6858.3; 07-DEC-2010 13:48:20; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45858  
 27; 6995.0; 07-DEC-2010 13:50:36; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45858  
 28; 7231.8; 07-DEC-2010 13:54:33; Dark ; 44.0; 108; Alp Col ; 2.65; 15200;occ; 88; 0;45858

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 3; 1891.4; 07-DEC-2010 14:05:47; Dark ; 55.5; 30; 46Eps Ori ; 1.69; 30000;occ; 111; 0;45858  
 4; 2042.8; 07-DEC-2010 14:08:18; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;45858  
 5; 2193.1; 07-DEC-2010 14:10:49; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;45858  
 6; 2305.7; 07-DEC-2010 14:12:41; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;45858  
 7; 2441.4; 07-DEC-2010 14:14:57; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45858  
 8; 2521.9; 07-DEC-2010 14:16:17; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;45858  
 9; 2709.2; 07-DEC-2010 14:19:25; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45858  
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 11; 3765.5; 07-DEC-2010 14:37:01; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;45858  
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 13; 3983.8; 07-DEC-2010 14:40:39; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45858  
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 17; 4876.0; 07-DEC-2010 14:55:31; Bright; 64.0; 138; 47Eps Vir ; 2.83; 4700;occ; 128; 0;45858  
 18; 5157.5; 07-DEC-2010 15:00:13; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45858  
 19; 5432.9; 07-DEC-2010 15:04:48; Dark ; 43.0; 169; 46Gam Hya ; 2.99; 4700;occ; 86; 0;45858  
 20; 5518.1; 07-DEC-2010 15:06:14; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;45858  
 21; 5614.4; 07-DEC-2010 15:07:50; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;45858  
 22; 5969.5; 07-DEC-2010 15:13:45; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45858  
 23; 6172.2; 07-DEC-2010 15:17:08; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45859  
 24; 6497.4; 07-DEC-2010 15:22:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45859  
 25; 6690.5; 07-DEC-2010 15:25:46; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45859  
 26; 6858.9; 07-DEC-2010 15:28:34; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;45859  
 27; 6995.8; 07-DEC-2010 15:30:51; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45859  
 28; 7232.1; 07-DEC-2010 15:34:48; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45859

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1;	1537.2;	07-DEC-2010	15:40:07;	Dark	;	49.0;	101;	11Alp	Lep	;	2.58;	7000;	occ;	98;	0;	45859
2;	1735.8;	07-DEC-2010	15:43:25;	Dark	;	53.5;	7;	19Bet	Ori	;	0.10;	14000;	occ;	107;	0;	45859
3;	1891.2;	07-DEC-2010	15:46:01;	Dark	;	55.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	111;	0;	45859
4;	2042.4;	07-DEC-2010	15:48:32;	Dark	;	55.5;	27;	24Gam	Ori	;	1.64;	26000;	occ;	111;	0;	45859
5;	2192.9;	07-DEC-2010	15:51:02;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	45859
6;	2305.6;	07-DEC-2010	15:52:55;	Bright;	;	37.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	75;	0;	45859
7;	2441.0;	07-DEC-2010	15:55:11;	Bright;	;	38.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	76;	0;	45859
8;	2521.4;	07-DEC-2010	15:56:31;	Bright;	;	43.5;	114;	3Iot	Aur	;	2.69;	4600;	occ;	87;	0;	45859
9;	2708.8;	07-DEC-2010	15:59:38;	Bright;	;	36.5;	175;	39Del	Per	;	3.01;	19400;	occ;	73;	0;	45859
10;	2858.9;	07-DEC-2010	16:02:08;	Bright;	;	49.0;	42;	34Bet	Aur	;	1.90;	10200;	occ;	98;	0;	45859
11;	3765.0;	07-DEC-2010	16:17:15;	Bright;	;	66.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	132;	0;	45859
12;	3857.0;	07-DEC-2010	16:18:46;	Bright;	;	49.5;	82;	48Bet	UMa	;	2.37;	10600;	occ;	99;	0;	45859
13;	3983.6;	07-DEC-2010	16:20:53;	Bright;	;	41.5;	32;	77Eps	UMa	;	1.76;	11000;	occ;	83;	0;	45859
14;	4120.4;	07-DEC-2010	16:23:10;	Bright;	;	39.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	79;	0;	45859
15;	4330.7;	07-DEC-2010	16:26:40;	Bright;	;	40.5;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	81;	0;	45859
16;	4674.2;	07-DEC-2010	16:32:24;	Bright;	;	56.0;	111;	8Eta	Boo	;	2.68;	6000;	occ;	112;	0;	45859
17;	4876.5;	07-DEC-2010	16:35:46;	Bright;	;	43.0;	138;	47Eps	Vir	;	2.83;	4700;	occ;	86;	0;	45859
18;	5158.1;	07-DEC-2010	16:40:28;	Dark	;	53.0;	121;	29Gam	Vir	;	2.74;	7200;	occ;	106;	0;	45859
19;	5433.5;	07-DEC-2010	16:45:03;	Dark	;	43.0;	169;	46Gam	Hya	;	2.99;	4700;	occ;	86;	0;	45859
20;	5519.1;	07-DEC-2010	16:46:29;	Dark	;	50.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	100;	0;	45859
21;	5615.4;	07-DEC-2010	16:48:05;	Dark	;	52.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	105;	0;	45859
22;	5970.1;	07-DEC-2010	16:54:00;	Dark	;	41.0;	99;	Del	Cen	;	2.58;	26000;	occ;	82;	0;	45859
23;	6173.1;	07-DEC-2010	16:57:23;	Dark	;	44.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	89;	0;	45860
24;	6498.3;	07-DEC-2010	17:02:48;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	45860
25;	6691.5;	07-DEC-2010	17:06:01;	Dark	;	48.5;	34;	Gam2	Vel	;	1.79;	23000;	occ;	97;	0;	45860
26;	6859.4;	07-DEC-2010	17:08:49;	Dark	;	49.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	98;	0;	45860
27;	6996.5;	07-DEC-2010	17:11:06;	Dark	;	56.0;	117;	Pi	Pup	;	2.71;	3800;	occ;	112;	0;	45860

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1;	1019.9;	07-DEC-2010	17:11:44;	Dark	;	56.5;	117;	Pi	Pup	;	2.71;	3800;	occ;	113;	75;	45860
2;	1218.4;	07-DEC-2010	17:15:02;	Dark	;	45.0;	108;	Alp	Col	;	2.65;	15200;	occ;	90;	0;	45860
3;	1537.3;	07-DEC-2010	17:20:21;	Dark	;	50.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	101;	0;	45860
4;	1735.9;	07-DEC-2010	17:23:39;	Dark	;	55.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	110;	0;	45860
5;	1891.1;	07-DEC-2010	17:26:15;	Dark	;	55.5;	30;	46Eps	Ori	;	1.69;	30000;	occ;	111;	0;	45860
6;	2042.2;	07-DEC-2010	17:28:46;	Dark	;	55.0;	27;	24Gam	Ori	;	1.64;	26000;	occ;	110;	0;	45860
7;	2192.5;	07-DEC-2010	17:31:16;	Dark	;	58.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	116;	0;	45860
8;	2305.4;	07-DEC-2010	17:33:09;	Bright;	;	38.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	76;	0;	45860
9;	2440.9;	07-DEC-2010	17:35:24;	Bright;	;	37.5;	150;	44Zet	Per	;	2.89;	28000;	occ;	75;	0;	45860
10;	2520.9;	07-DEC-2010	17:36:44;	Bright;	;	43.0;	114;	3Iot	Aur	;	2.69;	4600;	occ;	86;	0;	45860
11;	2708.7;	07-DEC-2010	17:39:52;	Bright;	;	35.5;	175;	39Del	Per	;	3.01;	19400;	occ;	71;	0;	45860
12;	2857.9;	07-DEC-2010	17:42:21;	Bright;	;	47.5;	42;	34Bet	Aur	;	1.90;	10200;	occ;	95;	0;	45860
13;	3764.6;	07-DEC-2010	17:57:28;	Bright;	;	45.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	90;	0;	45860
14;	3856.5;	07-DEC-2010	17:59:00;	Bright;	;	48.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	96;	0;	45860
15;	3983.4;	07-DEC-2010	18:01:07;	Bright;	;	42.5;	32;	77Eps	UMa	;	1.76;	11000;	occ;	85;	0;	45860
16;	4120.4;	07-DEC-2010	18:03:24;	Bright;	;	40.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	80;	0;	45860
17;	4330.9;	07-DEC-2010	18:06:55;	Bright;	;	40.5;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	81;	0;	45860
18;	4674.4;	07-DEC-2010	18:12:38;	Bright;	;	37.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	75;	0;	45860
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20;	5159.0;	07-DEC-2010	18:20:43;	Dark	;	51.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	103;	0;	45860
21;	5434.0;	07-DEC-2010	18:25:18;	Dark	;	43.5;	169;	46Gam	Hya	;	2.99;	4700;	occ;	87;	0;	45860
22;	5520.1;	07-DEC-2010	18:26:44;	Dark	;	49.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	98;	0;	45860
23;	5616.4;	07-DEC-2010	18:28:20;	Dark	;	53.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	107;	0;	45860
24;	5970.6;	07-DEC-2010	18:34:14;	Dark	;	40.5;	99;	Del	Cen	;	2.58;	26000;	occ;	81;	0;	45860
25;	6173.8;	07-DEC-2010	18:37:37;	Dark	;	44.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	89;	0;	45861
26;	6499.0;	07-DEC-2010	18:43:03;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	45861
27;	6692.2;	07-DEC-2010	18:46:16;	Dark	;	48.5;	34;	Gam2	Vel	;	1.79;	23000;	occ;	97;	0;	45861
28;	6859.9;	07-DEC-2010	18:49:03;	Dark	;	49.0;	2;	Alp	Car	;	-0.74;	7000;	occ;	98;	0;	45861
29;	6997.1;	07-DEC-2010	18:51:21;	Dark	;	0.5;	117;	Pi	Pup	;	2.71;	3800;	occ;	1;	0;	45861

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2;	1218.6;	07-DEC-2010	18:55:16;	Dark	;	43.5;	108;	Alp	Col	;	2.65;	15200;	occ;	87;	0;	45861
3;	1537.4;	07-DEC-2010	19:00:35;	Dark	;	50.5;	101;	11Alp	Lep	;	2.58;	7000;	occ;	101;	0;	45861
4;	1735.8;	07-DEC-2010	19:03:54;	Dark	;	54.0;	7;	19Bet	Ori	;	0.10;	14000;	occ;	108;	0;	45861
5;	1890.7;	07-DEC-2010	19:06:28;	Dark	;	52.0;	30;	46Eps	Ori	;	1.69;	30000;	occ;	104;	0;	45861
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19; 4877.4; 07-DEC-2010 19:56:15; Bright; 46.5; 138; 47Eps Vir ; 2.83; 4700;occ; 93; 0;45861
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22; 5521.0; 07-DEC-2010 20:06:59; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45861
23; 5617.4; 07-DEC-2010 20:08:35; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;45861
24; 5971.2; 07-DEC-2010 20:14:29; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45861
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26; 6499.8; 07-DEC-2010 20:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45862
27; 6692.8; 07-DEC-2010 20:26:31; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;45862
28; 6860.2; 07-DEC-2010 20:29:18; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45862
29; 6998.0; 07-DEC-2010 20:31:36; Dark ; 37.5; 117; Pi Pup ; 2.71; 3800;occ; 75; 0;45862
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4; -1893.8; 09-DEC-2010 06:48:33; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;45882
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7; -1126.3; 09-DEC-2010 07:01:20; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;45882
8; -838.0; 09-DEC-2010 07:06:08; Dark ; 54.0; 121; 29Gam Vir ; 2.74; 7200;occ; 108; 0;45882
9; -567.3; 09-DEC-2010 07:10:39; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;45882
10; -471.1; 09-DEC-2010 07:12:15; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;45882
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12; -30.0; 09-DEC-2010 07:19:36; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;45882
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23; 6248.2; 13-DEC-2010 18:18:58; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45947
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19;	1043.4;	14-DEC-2010	06:14:05;	Dark	;	55.0;	117;	Pi Pup	;	2.71;	3800;occ;	110;	0;	45954
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21;	1521.7;	14-DEC-2010	06:22:04;	Dark	;	55.5;	47;	2Bet CMA	;	1.98;	28000;occ;	111;	0;	45954
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23;	1875.2;	14-DEC-2010	06:27:57;	Dark	;	49.0;	30;	46Eps Ori	;	1.69;	30000;occ;	98;	0;	45954
24;	2069.5;	14-DEC-2010	06:31:12;	Dark	;	69.0;	14;	58Alp Ori	;	0.87;	3000;occ;	138;	0;	45954
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 9; 2791.2; 14-DEC-2010 11:43:55; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;45957  
 10; 3720.4; 14-DEC-2010 11:59:25; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;45957  
 11; 3966.6; 14-DEC-2010 12:03:31; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45957  
 12; 4117.9; 14-DEC-2010 12:06:02; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45957  
 13; 4314.8; 14-DEC-2010 12:09:19; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45957  
 14; 4505.1; 14-DEC-2010 12:12:29; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;45957  
 15; 4700.6; 14-DEC-2010 12:15:45; Bright; 48.0; 111; 8Eta Boo ; 2.68; 6000;occ; 96; 0;45957  
 16; 4929.5; 14-DEC-2010 12:19:34; Bright; 72.0; 138; 47Eps Vir ; 2.83; 4700;occ; 144; 0;45957  
 17; 5286.0; 14-DEC-2010 12:25:30; Dark ; 58.5; 15; 67Alp Vir ; 0.98; 28000;occ; 117; 0;45957  
 18; 5495.1; 14-DEC-2010 12:28:59; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;45957  
 19; 5631.1; 14-DEC-2010 12:31:15; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;45957  
 20; 5726.3; 14-DEC-2010 12:32:50; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45957  
 21; 5936.5; 14-DEC-2010 12:36:21; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;45957  
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 25; 6575.0; 14-DEC-2010 12:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45958  
 26; 6766.6; 14-DEC-2010 12:50:11; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45958  
 27; 6901.5; 14-DEC-2010 12:52:26; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;45958  
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 29; 7257.2; 14-DEC-2010 12:58:21; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;45958  
 30; 7536.2; 14-DEC-2010 13:03:00; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;45958

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 11; 4117.8; 14-DEC-2010 13:46:16; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;45958  
 12; 4315.0; 14-DEC-2010 13:49:33; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45958  
 13; 4505.4; 14-DEC-2010 13:52:43; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;45958  
 14; 4701.1; 14-DEC-2010 13:55:59; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45958

15; 4930.1; 14-DEC-2010 13:59:48; Bright; 72.0; 138; 47Eps Vir ; 2.83; 4700;occ; 144; 0;45958  
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 22; 6258.7; 14-DEC-2010 14:21:57; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45959  
 23; 6491.1; 14-DEC-2010 14:25:49; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45959  
 24; 6575.9; 14-DEC-2010 14:27:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45959  
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 26; 6901.9; 14-DEC-2010 14:32:40; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;45959  
 27; 7060.3; 14-DEC-2010 14:35:18; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;45959  
 28; 7257.7; 14-DEC-2010 14:38:36; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;45959

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 5; 23.0; 15-DEC-2010 00:19:39; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45965  
 6; 249.8; 15-DEC-2010 00:23:26; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45965  
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 9; 757.7; 15-DEC-2010 00:31:54; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;45965  
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 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965  
 14; 1737.2; 15-DEC-2010 00:48:13; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45965  
 15; 1873.6; 15-DEC-2010 00:50:30; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45965  
 16; 2065.4; 15-DEC-2010 00:53:42; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;45965  
 17; 2177.9; 15-DEC-2010 00:55:34; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;45965  
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 21; 2786.4; 15-DEC-2010 01:05:43; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45965  
 22; 3686.1; 15-DEC-2010 01:20:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45965  
 23; 3964.9; 15-DEC-2010 01:25:21; Bright; 62.0; 32; 77Eps UMA ; 1.76; 11000;occ; 124; 0;45965  
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 26; 4506.5; 15-DEC-2010 01:34:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45965  
 27; 4703.0; 15-DEC-2010 01:37:39; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45965  
 28; 4934.7; 15-DEC-2010 01:41:31; Bright; 48.5; 138; 47Eps Vir ; 2.83; 4700;occ; 97; 0;45965

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 3; -277.5; 15-DEC-2010 01:54:53; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45965  
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 9; 758.4; 15-DEC-2010 02:12:09; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45966  
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 12; 1246.7; 15-DEC-2010 02:20:17; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;45966  
 13; 1523.4; 15-DEC-2010 02:24:54; Dark ; 56.0; 47; 2Bet CMA ; 1.98; 28000;occ; 112; 0;45966  
 14; 1737.3; 15-DEC-2010 02:28:28; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;45966  
 15; 1873.6; 15-DEC-2010 02:30:44; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45966  
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6;-1310.7; 15-DEC-2010 03:17:54; Bright; 50.5; 111; 8Eta Boo ; 2.68; 6000;occ; 101; 0;45966
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13; 251.7; 15-DEC-2010 03:43:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45967
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23; 1873.6; 15-DEC-2010 05:51:12; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;45968
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 27; 2308.9; 16-DEC-2010 07:01:58; Bright; 53.5; 176; 23Zet Tau ; 3.02; 22000;occ; 107; 0;45983  
 28; 2431.9; 16-DEC-2010 07:04:01; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;45983  
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11; 2305.6; 16-DEC-2010 20:23:47; Bright; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;45991
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13; 2641.2; 16-DEC-2010 20:29:22; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45991
14; 2771.5; 16-DEC-2010 20:31:33; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45991
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7; 273.8; 16-DEC-2010 21:30:09; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45992
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13; 1257.7; 16-DEC-2010 21:46:33; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;45992
14; 1363.6; 16-DEC-2010 21:48:19; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45992
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17; 1871.0; 16-DEC-2010 21:56:46; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45992
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22; 2640.4; 16-DEC-2010 22:09:35; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45992
23; 2771.1; 16-DEC-2010 22:11:46; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45992
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25; 3958.8; 16-DEC-2010 22:31:34; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;45992
26; 4115.6; 16-DEC-2010 22:34:11; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45992
27; 4317.9; 16-DEC-2010 22:37:33; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45992
28; 4511.2; 16-DEC-2010 22:40:46; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45992
29; 4711.4; 16-DEC-2010 22:44:06; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45992
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5; 42.5; 16-DEC-2010 23:06:31; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45993
6; 274.6; 16-DEC-2010 23:10:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45993
7; 498.0; 16-DEC-2010 23:14:07; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45993
8; 587.3; 16-DEC-2010 23:15:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45993
9; 777.5; 16-DEC-2010 23:18:46; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45993
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13; 1363.9; 16-DEC-2010 23:28:33; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45993
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16; 1871.0; 16-DEC-2010 23:37:00; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45993
17; 2056.0; 16-DEC-2010 23:40:05; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45993
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 25; 4115.6; 17-DEC-2010 00:14:25; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45993  
 26; 4318.0; 17-DEC-2010 00:17:47; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;45993  
 27; 4511.4; 17-DEC-2010 00:21:00; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;45993  
 28; 4711.7; 17-DEC-2010 00:24:21; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45993  
 29; 5311.9; 17-DEC-2010 00:34:21; Dark ; 56.5; 15; 67Alp Vir ; 0.98; 28000;occ; 113; 0;45993

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23; 6282.4; 16-DEC-2010 11:28:39; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45986
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26; 6786.7; 16-DEC-2010 11:37:04; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45986
27; 6913.6; 16-DEC-2010 11:39:10; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45986
28; 7075.6; 16-DEC-2010 11:41:52; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45986
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14; 4510.3; 16-DEC-2010 12:39:21; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45986
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16; 4948.4; 16-DEC-2010 12:46:39; Bright; 42.0; 138; 47Eps Vir ; 2.83; 4700;occ; 84; 0;45986
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22; 6052.3; 16-DEC-2010 13:05:03; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;45987
23; 6283.4; 16-DEC-2010 13:08:54; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45987
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25; 6596.8; 16-DEC-2010 13:14:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45987
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27; 6914.4; 16-DEC-2010 13:19:25; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45987
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6; 2307.4; 16-DEC-2010 13:42:52; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;45987
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9; 2773.9; 16-DEC-2010 13:50:39; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45987  
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11; 3960.2; 16-DEC-2010 14:10:25; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;45987  
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13; 4317.7; 16-DEC-2010 14:16:22; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;45987  
14; 4510.6; 16-DEC-2010 14:19:35; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;45987  
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23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988  
24; 6509.0; 16-DEC-2010 14:52:54; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;45988  
25; 6597.6; 16-DEC-2010 14:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45988  
26; 6788.2; 16-DEC-2010 14:57:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45988  
27; 6915.4; 16-DEC-2010 14:59:40; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;45988  
28; 7077.0; 16-DEC-2010 15:02:22; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45988  
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3; 1871.8; 16-DEC-2010 15:15:51; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45988  
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5; 2176.7; 16-DEC-2010 15:20:55; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;45988  
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7; 2430.1; 16-DEC-2010 15:25:09; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;45988  
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9; 2773.4; 16-DEC-2010 15:30:52; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45988  
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13; 4317.9; 16-DEC-2010 15:56:37; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;45988  
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19; 5669.8; 16-DEC-2010 16:19:09; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45988  
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28; 7077.6; 16-DEC-2010 16:42:36; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45989  
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12; 3685.7; 16-DEC-2010 17:26:19; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45989  
13; 3959.8; 16-DEC-2010 17:30:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45989  
14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989



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 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989  
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 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994  
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994  
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 21; 2639.5; 17-DEC-2010 01:30:02; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;45994  
 22; 2770.0; 17-DEC-2010 01:32:13; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;45994  
 23; 3685.4; 17-DEC-2010 01:47:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;45994  
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 26; 4318.1; 17-DEC-2010 01:58:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;45994  
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13; 4318.7; 17-DEC-2010 13:39:40; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;46001  
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23; 6607.9; 17-DEC-2010 14:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46002  
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13; 4318.9; 17-DEC-2010 15:19:54; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;46002  
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23; 6824.6; 20-DEC-2010 09:10:47; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46042  
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27; 7393.7; 20-DEC-2010 09:20:16; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;46042  
28; 7563.8; 20-DEC-2010 09:23:06; Dark ; 67.0; 1; 9Alp CMa ; -1.44; 11000;occ; 134; 0;46042  
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13; 4322.3; 20-DEC-2010 13:29:47; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;46044  
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23; 6638.8; 20-DEC-2010 14:08:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46045  
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28; 7394.4; 20-DEC-2010 14:20:59; Dark ; 52.5; 179; 240mi2CMa ; 3.03; 24000;occ; 105; 0;46045

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5; 2401.5; 23-DEC-2010 09:27:21; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;46085
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12; 4528.0; 23-DEC-2010 10:02:48; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;46085
13; 4744.3; 23-DEC-2010 10:06:24; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;46085
14; 5390.6; 23-DEC-2010 10:17:10; Dark ; 53.0; 15; 67Alp Vir ; 0.98; 28000;occ; 106; 0;46085
15; 5663.0; 23-DEC-2010 10:21:43; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;46085
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 23; 6982.9; 23-DEC-2010 10:43:42; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46086  
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 25; 7307.1; 23-DEC-2010 10:49:07; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;46086  
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 19; 6114.6; 23-DEC-2010 12:09:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46087  
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 22; 6675.1; 23-DEC-2010 13:59:03; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;46088  
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7; 1866.6; 24-DEC-2010 18:43:07; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46105

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24;	6131.4;	24-DEC-2010	19:54:11;	Dark ;	59.5;	0;	;	0.00;	0;occ;	119;	0;	46106
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20101225\_175146\_000059313097\_00415\_46119\_3003.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20101226\_000402\_000055593097\_00418\_46122\_1960.N1

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27; 7574.4; 26-DEC-2010 10:43:37; Dark ; 52.5; 1; 9Alp CMa ; -1.44; 11000;occ; 105; 0;46129
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 18; 4539.8; 27-DEC-2010 20:57:57; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46149  
 19; 4771.3; 27-DEC-2010 21:01:48; Bright; 71.5; 111; 8Eta Boo ; 2.68; 6000;occ; 143; 0;46149

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 14; 1408.7; 27-DEC-2010 21:46:00; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;46150  
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 16; 1714.2; 27-DEC-2010 21:51:05; Dark ; 43.0; 56; 53Kap Ori ; 2.07; 30000;occ; 86; 0;46150  
 17; 1866.8; 27-DEC-2010 21:53:38; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46150  
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 21; 2458.3; 27-DEC-2010 22:03:29; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;46150  
 22; 2568.7; 27-DEC-2010 22:05:20; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46150  
 23; 2683.9; 27-DEC-2010 22:07:15; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;46150  
 24; 3612.6; 27-DEC-2010 22:22:44; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;46150  
 25; 3912.6; 27-DEC-2010 22:27:44; Bright; 58.5; 32; 77Eps UMa ; 1.76; 11000;occ; 117; 0;46150  
 26; 4097.7; 27-DEC-2010 22:30:49; Bright; 64.0; 39; 85Eta UMa ; 1.85; 24000;occ; 128; 0;46150  
 27; 4328.5; 27-DEC-2010 22:34:40; Bright; 60.0; 180; 27Gam Boo ; 3.04; 8000;occ; 120; 0;46150  
 28; 4540.1; 27-DEC-2010 22:38:11; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46150  
 29; 4771.7; 27-DEC-2010 22:42:03; Bright; 71.5; 111; 8Eta Boo ; 2.68; 6000;occ; 143; 0;46150

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 7; 591.4; 27-DEC-2010 23:12:37; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46151  
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 13; 1409.0; 27-DEC-2010 23:26:14; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;46151  
 14; 1562.9; 27-DEC-2010 23:28:48; Dark ; 50.0; 1; 9Alp CMa ; -1.44; 11000;occ; 100; 0;46151  
 15; 1714.3; 27-DEC-2010 23:31:19; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;46151  
 16; 1866.8; 27-DEC-2010 23:33:52; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46151  
 17; 2024.4; 27-DEC-2010 23:36:29; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;46151  
 18; 2236.8; 27-DEC-2010 23:40:02; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;46151  
 19; 2333.0; 27-DEC-2010 23:41:38; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;46151  
 20; 2458.4; 27-DEC-2010 23:43:43; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;46151  
 21; 2568.5; 27-DEC-2010 23:45:34; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;46151  
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 23; 3611.9; 28-DEC-2010 00:02:57; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;46151  
 24; 3912.3; 28-DEC-2010 00:07:57; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46151  
 25; 4097.5; 28-DEC-2010 00:11:03; Bright; 64.0; 39; 85Eta UMa ; 1.85; 24000;occ; 128; 0;46151  
 26; 4328.7; 28-DEC-2010 00:14:54; Bright; 60.0; 180; 27Gam Boo ; 3.04; 8000;occ; 120; 0;46151  
 27; 4540.2; 28-DEC-2010 00:18:25; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46151  
 28; 4772.1; 28-DEC-2010 00:22:17; Bright; 72.0; 111; 8Eta Boo ; 2.68; 6000;occ; 144; 0;46151  
 29; 5297.6; 28-DEC-2010 00:31:03; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;46151

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 10; 48.6; 27-DEC-2010 08:01:28; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46142  
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 13; 586.4; 27-DEC-2010 08:10:25; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;46142  
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 15; 871.8; 27-DEC-2010 08:15:11; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46142  
 16; 1002.8; 27-DEC-2010 08:17:22; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46142  
 17; 1136.9; 27-DEC-2010 08:19:36; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46142  
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 19; 1406.9; 27-DEC-2010 08:24:06; Dark ; 47.0; 179; 240mi2CMa ; 3.03; 24000;occ; 94; 0;46142  
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19; 6063.4; 27-DEC-2010 09:41:42; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46143
20; 6164.3; 27-DEC-2010 09:43:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46143
21; 6424.7; 27-DEC-2010 09:47:44; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46143
22; 6600.8; 27-DEC-2010 09:50:40; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46143
23; 6702.0; 27-DEC-2010 09:52:21; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;46143
24; 6886.4; 27-DEC-2010 09:55:25; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46143
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26; 7151.5; 27-DEC-2010 09:59:50; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46143
27; 7325.5; 27-DEC-2010 10:02:45; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;46143
28; 7421.2; 27-DEC-2010 10:04:20; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;46143
29; 7576.3; 27-DEC-2010 10:06:55; Dark ; 58.5; 1; 9Alp CMa ; -1.44; 11000;occ; 117; 0;46143
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22; 6702.3; 27-DEC-2010 11:32:35; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;46144
23; 6886.8; 27-DEC-2010 11:35:40; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46144
24; 7017.9; 27-DEC-2010 11:37:51; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46144
25; 7151.8; 27-DEC-2010 11:40:05; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;46144
26; 7325.8; 27-DEC-2010 11:42:59; Dark ; 47.0; 23; 21Eps CMa ; 1.50; 26000;occ; 94; 0;46144
27; 7421.5; 27-DEC-2010 11:44:34; Dark ; 46.5; 179; 240mi2CMa ; 3.03; 24000;occ; 93; 0;46144
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20101228\_174425\_000059313098\_00027\_46162\_3029.N1

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27; 6612.3; 28-DEC-2010 19:15:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46163
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12; 2564.8; 28-DEC-2010 19:48:18; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46163
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22; 5304.1; 28-DEC-2010 20:33:58; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;46163
23; 5710.1; 28-DEC-2010 20:40:44; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;46163
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27; 6443.4; 28-DEC-2010 20:52:57; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46164
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9; 699.0; 29-DEC-2010 01:58:08; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;46167
10; 885.7; 29-DEC-2010 02:01:15; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46167
11; 1016.7; 29-DEC-2010 02:03:26; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46167
12; 1147.1; 29-DEC-2010 02:05:36; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46167

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4;-1919.0; 29-DEC-2010 02:54:44; Bright; 55.0; 39; 85Eta UMA ; 1.85; 24000;occ; 110; 0;46167
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18; 1147.9; 29-DEC-2010 05:26:05; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;46169
19; 1319.3; 29-DEC-2010 05:28:57; Dark ; 49.5; 23; 21Eps CMa ; 1.50; 26000;occ; 99; 0;46169
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22; 1716.2; 29-DEC-2010 05:35:34; Dark ; 43.0; 56; 53Kap Ori ; 2.07; 30000;occ; 86; 0;46169
23; 1867.6; 29-DEC-2010 05:38:05; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46169

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12; 2405.1; 29-DEC-2010 20:49:09; Bright; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;46178
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17; 3902.3; 29-DEC-2010 21:14:06; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;46178
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27; 4092.8; 29-DEC-2010 22:57:31; Bright; 65.0; 39; 85Eta UMa ; 1.85; 24000;occ; 130; 0;46179
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14; 1716.9; 29-DEC-2010 23:58:09; Dark ; 43.5; 56; 53Kap Ori ; 2.07; 30000;occ; 87; 0;46180
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11; 3905.4; 29-DEC-2010 07:52:17; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;46170
12; 4094.5; 29-DEC-2010 07:55:26; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46170
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15; 4781.4; 29-DEC-2010 08:06:53; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;46170
16; 5154.2; 29-DEC-2010 08:13:06; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;46170
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14; 4093.6; 29-DEC-2010 16:16:35; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;46175
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6; 1566.3; 29-DEC-2010 18:54:56; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;46177

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23; 1868.2; 30-DEC-2010 06:41:36; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46184
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23; 4089.8; 31-DEC-2010 00:00:58; Bright; 66.0; 39; 85Eta UMA ; 1.85; 24000;occ; 132; 0;46194
24; 4330.3; 31-DEC-2010 00:04:58; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;46194
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27; 5164.1; 31-DEC-2010 00:18:52; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;46194
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12; 188.4; 30-DEC-2010 07:53:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46185
13; 448.3; 30-DEC-2010 07:58:10; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;46185
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19; 5725.0; 30-DEC-2010 09:26:07; Dark ; 46.5; 54; 5The Cen ; 2.06; 4500;occ; 93; 0;46185
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22; 6203.3; 30-DEC-2010 09:34:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46186
23; 6463.2; 30-DEC-2010 09:38:25; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46186
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25; 6722.0; 30-DEC-2010 09:42:44; Dark ; 54.5; 41; Eps Car ; 1.86; 4100;occ; 109; 0;46186

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27; 7342.2; 31-DEC-2010 09:16:20; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;46200
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20101231\_155747\_000058473098\_00069\_46204\_3054.N1

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 13; 4088.1; 31-DEC-2010 16:43:16; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46204  
 14; 4330.9; 31-DEC-2010 16:47:19; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;46204  
 15; 4550.9; 31-DEC-2010 16:50:59; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46204  
 16; 4745.4; 31-DEC-2010 16:54:14; Bright; 53.0; 3; 16Alp Boo ; -0.05; 4250;occ; 106; 0;46204  
 17; 5168.7; 31-DEC-2010 17:01:17; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46204  
 18; 5326.8; 31-DEC-2010 17:03:55; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;46204  
 19; 5738.3; 31-DEC-2010 17:10:47; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;46204  
 20; 5903.9; 31-DEC-2010 17:13:32; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46204  
 21; 6112.2; 31-DEC-2010 17:17:00; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46205  
 22; 6221.0; 31-DEC-2010 17:18:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46205  
 23; 6480.3; 31-DEC-2010 17:23:08; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46205  
 24; 6635.5; 31-DEC-2010 17:25:44; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46205  
 25; 6730.5; 31-DEC-2010 17:27:19; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;46205  
 26; 6920.1; 31-DEC-2010 17:30:28; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46205  
 27; 7051.0; 31-DEC-2010 17:32:39; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;46205  
 28; 7175.8; 31-DEC-2010 17:34:44; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;46205

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20101231\_173444\_000059123098\_00070\_46205\_3055.N1

1; 1161.7; 31-DEC-2010 17:34:44; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46205  
 2; 1329.5; 31-DEC-2010 17:37:32; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46205  
 3; 1422.0; 31-DEC-2010 17:39:04; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;46205  
 4; 1569.7; 31-DEC-2010 17:41:32; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;46205  
 5; 1719.3; 31-DEC-2010 17:44:02; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;46205  
 6; 1869.3; 31-DEC-2010 17:46:32; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;46205  
 7; 2020.2; 31-DEC-2010 17:49:03; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;46205  
 8; 2216.0; 31-DEC-2010 17:52:18; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;46205  
 9; 2313.9; 31-DEC-2010 17:53:56; Bright; 57.0; 151; 13Mu Gem ; 2.89; 3000;occ; 114; 0;46205  
 10; 2552.9; 31-DEC-2010 17:57:55; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46205  
 11; 2677.8; 31-DEC-2010 18:00:00; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;46205  
 12; 3672.4; 31-DEC-2010 18:16:35; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46205  
 13; 3891.6; 31-DEC-2010 18:20:14; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;46205  
 14; 4087.9; 31-DEC-2010 18:23:30; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46205  
 15; 4330.8; 31-DEC-2010 18:27:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;46205  
 16; 4551.1; 31-DEC-2010 18:31:13; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;46205  
 17; 4745.8; 31-DEC-2010 18:34:28; Bright; 52.5; 3; 16Alp Boo ; -0.05; 4250;occ; 105; 0;46205  
 18; 5169.1; 31-DEC-2010 18:41:31; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;46205  
 19; 5327.2; 31-DEC-2010 18:44:10; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;46205  
 20; 5739.0; 31-DEC-2010 18:51:01; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46205  
 21; 5904.5; 31-DEC-2010 18:53:47; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46205  
 22; 6112.9; 31-DEC-2010 18:57:15; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46206  
 23; 6221.9; 31-DEC-2010 18:59:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46206  
 24; 6481.2; 31-DEC-2010 19:03:24; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;46206  
 25; 6636.0; 31-DEC-2010 19:05:58; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;46206  
 26; 6749.9; 31-DEC-2010 19:07:52; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;46206  
 27; 6920.5; 31-DEC-2010 19:10:43; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46206  
 28; 7051.4; 31-DEC-2010 19:12:54; Dark ; 22.5; 70; Zet Pup ; 2.25; 39000;occ; 45; 0;46206

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20101231\_191254\_000060383098\_00071\_46206\_3056.N1



1;	1037.3;	31-DEC-2010	19:12:54;	Dark	;	49.0;	70;	Zet Pup	;	2.25;	39000;occ;	98;	0;	46206
2;	1162.1;	31-DEC-2010	19:14:59;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;occ;	94;	0;	46206
3;	1329.8;	31-DEC-2010	19:17:46;	Dark	;	44.0;	23;	21Eps CMa	;	1.50;	26000;occ;	88;	0;	46206
4;	1422.0;	31-DEC-2010	19:19:18;	Dark	;	42.5;	179;	24Omi2CMa	;	3.03;	24000;occ;	85;	0;	46206
5;	1569.9;	31-DEC-2010	19:21:46;	Dark	;	48.0;	1;	9Alp CMa	;	-1.44;	11000;occ;	96;	0;	46206
6;	1719.2;	31-DEC-2010	19:24:16;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;	46206
7;	1869.3;	31-DEC-2010	19:26:46;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;occ;	89;	0;	46206
8;	2020.2;	31-DEC-2010	19:29:17;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;occ;	110;	0;	46206
9;	2215.8;	31-DEC-2010	19:32:32;	Dark	;	57.0;	44;	24Gam Gem	;	1.93;	11000;occ;	114;	0;	46206
10;	2313.6;	31-DEC-2010	19:34:10;	Bright;	;	47.5;	151;	13Mu Gem	;	2.89;	3000;occ;	95;	0;	46206
11;	2552.7;	31-DEC-2010	19:38:09;	Bright;	;	39.0;	107;	37The Aur	;	2.65;	11000;occ;	78;	0;	46206
12;	2677.7;	31-DEC-2010	19:40:14;	Bright;	;	41.0;	6;	13Alp Aur	;	0.08;	3400;occ;	82;	0;	46206
13;	3672.2;	31-DEC-2010	19:56:49;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	46206
14;	3891.1;	31-DEC-2010	20:00:28;	Bright;	;	49.5;	32;	77Eps UMa	;	1.76;	11000;occ;	99;	0;	46206
15;	4087.7;	31-DEC-2010	20:03:44;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;occ;	132;	0;	46206
16;	4330.9;	31-DEC-2010	20:07:47;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;occ;	124;	0;	46206
17;	4551.4;	31-DEC-2010	20:11:28;	Bright;	;	62.0;	83;		;	2.38;	11000;occ;	124;	0;	46206
18;	4746.2;	31-DEC-2010	20:14:43;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;occ;	107;	0;	46206
19;	5169.6;	31-DEC-2010	20:21:46;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;occ;	112;	0;	46206
20;	5327.7;	31-DEC-2010	20:24:24;	Dark	;	45.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	91;	0;	46206
21;	5739.5;	31-DEC-2010	20:31:16;	Dark	;	48.5;	54;	5The Cen	;	2.06;	4500;occ;	97;	0;	46206
22;	5904.9;	31-DEC-2010	20:34:01;	Dark	;	42.0;	95;	Zet Cen	;	2.55;	26000;occ;	84;	0;	46206
23;	6113.8;	31-DEC-2010	20:37:30;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;occ;	89;	0;	46207
24;	6222.7;	31-DEC-2010	20:39:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	46207
25;	6482.0;	31-DEC-2010	20:43:38;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;occ;	93;	0;	46207
26;	6636.4;	31-DEC-2010	20:46:13;	Dark	;	45.0;	71;	Iot Car	;	2.25;	7700;occ;	90;	0;	46207
27;	6750.2;	31-DEC-2010	20:48:07;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	46207
28;	6921.0;	31-DEC-2010	20:50:57;	Dark	;	48.0;	34;	Gam2Vel	;	1.79;	23000;occ;	96;	0;	46207
29;	7051.8;	31-DEC-2010	20:53:08;	Dark	;	23.5;	70;	Zet Pup	;	2.25;	39000;occ;	47;	0;	46207