

# GOMOS Daily Report 22-DEC-2006

## Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	24DEC2006 09:57:11
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22DEC2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23DEC2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

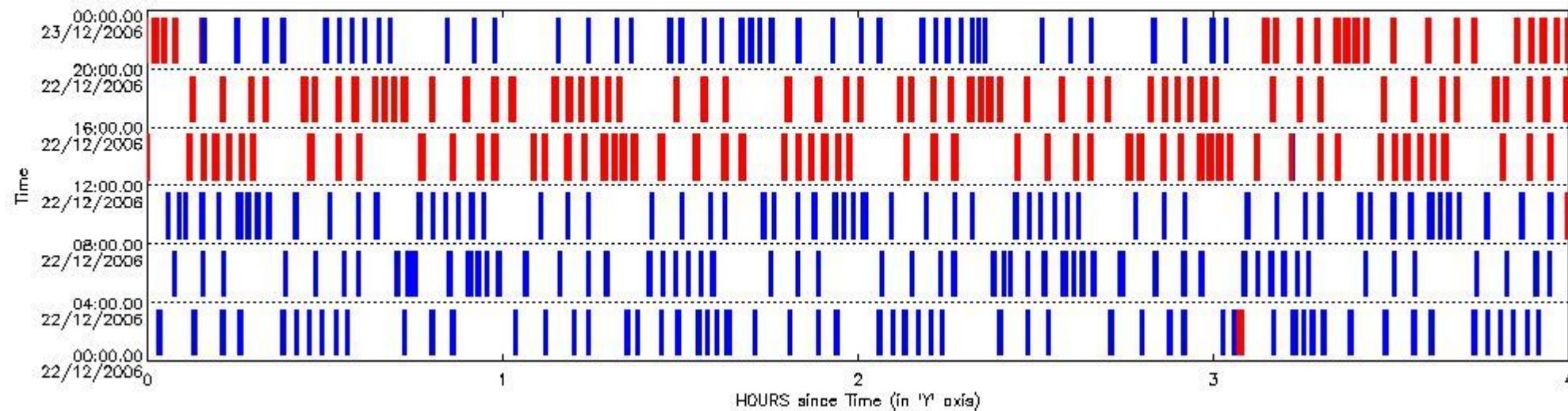
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
22-DEC-2006 03:03:59	ZetCen	95	25150
22-DEC-2006 11:59:17	19BetOri	7	25156
22-DEC-2006 12:06:30	87AlpTau	13	25156
22-DEC-2006 12:08:54	25EtaTau	146	25156
22-DEC-2006 12:10:59	44ZetPer	150	25156
22-DEC-2006 12:13:13	45EpsPer	149	25156
22-DEC-2006 12:15:27	39DelPer	175	25156
22-DEC-2006 12:17:22	23GamPer	160	25156
22-DEC-2006 12:27:04	1AlpUMi	49	25156
22-DEC-2006 12:31:43	7BetUMi	60	25156
22-DEC-2006 12:35:13	14EtaDra	119	25156
22-DEC-2006 12:45:48		83	25156
22-DEC-2006 12:50:57	24AlpSer	102	25156
22-DEC-2006 12:55:44	27BetLib	104	25156
22-DEC-2006 12:58:06	9Alp2Lib	122	25156

22-DEC-2006 13:04:41	5TheCen	54	25156
22-DEC-2006 13:06:32	AlpLup	78	25156
22-DEC-2006 13:10:27	BetCen	10	25156
22-DEC-2006 13:13:19	Alp1Cru	12	25157
22-DEC-2006 13:16:36	DSA1029	0	25157
22-DEC-2006 13:18:18	UpsCar	159	25157
22-DEC-2006 13:19:49	lotCar	71	25157
22-DEC-2006 13:21:37	EpsCar	41	25157
22-DEC-2006 13:26:14	AlpCar	2	25157
22-DEC-2006 13:32:07	AlpCol	108	25157
22-DEC-2006 13:36:55	11AlpLep	101	25157
22-DEC-2006 13:39:53	19BetOri	7	25157
22-DEC-2006 13:47:06	87AlpTau	13	25157
22-DEC-2006 13:49:30	25EtaTau	146	25157
22-DEC-2006 13:51:35	44ZetPer	150	25157
22-DEC-2006 13:53:49	45EpsPer	149	25157
22-DEC-2006 13:56:03	39DelPer	175	25157
22-DEC-2006 13:57:58	23GamPer	160	25157
22-DEC-2006 14:07:40	1AlpUMi	49	25157
22-DEC-2006 14:12:19	7BetUMi	60	25157
22-DEC-2006 14:15:49	14EtaDra	119	25157
22-DEC-2006 14:26:24		83	25157
22-DEC-2006 14:31:33	24AlpSer	102	25157
22-DEC-2006 14:36:20	27BetLib	104	25157
22-DEC-2006 14:38:42	9Alp2Lib	122	25157
22-DEC-2006 14:45:17	5TheCen	54	25157
22-DEC-2006 14:47:08	AlpLup	78	25157
22-DEC-2006 14:51:04	BetCen	10	25157
22-DEC-2006 14:53:55	Alp1Cru	12	25158
22-DEC-2006 14:57:12	DSA1029	0	25158
22-DEC-2006 14:58:55	UpsCar	159	25158
22-DEC-2006 15:00:26	lotCar	71	25158
22-DEC-2006 15:02:13	EpsCar	41	25158
22-DEC-2006 15:06:51	AlpCar	2	25158
22-DEC-2006 15:12:43	AlpCol	108	25158
22-DEC-2006 15:17:31	11AlpLep	101	25158
22-DEC-2006 15:20:29	19BetOri	7	25158
22-DEC-2006 15:27:42	87AlpTau	13	25158
22-DEC-2006 15:30:06	25EtaTau	146	25158
22-DEC-2006 15:32:11	44ZetPer	150	25158
22-DEC-2006 15:34:25	45EpsPer	149	25158
22-DEC-2006 15:36:39	39DelPer	175	25158
22-DEC-2006 15:38:34	23GamPer	160	25158
22-DEC-2006 15:48:16	1AlpUMi	49	25158
22-DEC-2006 15:52:55	7BetUMi	60	25158
22-DEC-2006 15:56:25	14EtaDra	119	25158
22-DEC-2006 16:07:00		83	25158
22-DEC-2006 16:12:09	24AlpSer	102	25158
22-DEC-2006 16:16:56	27BetLib	104	25158
22-DEC-2006 16:19:19	9Alp2Lib	122	25158
22-DEC-2006 16:25:54	5TheCen	54	25158
22-DEC-2006 16:27:44	AlpLup	78	25158
22-DEC-2006 16:31:40	BetCen	10	25158
22-DEC-2006 16:34:32	Alp1Cru	12	25159
22-DEC-2006 16:37:48	DSA1029	0	25159
22-DEC-2006 16:39:31	UpsCar	159	25159
22-DEC-2006 16:41:02	lotCar	71	25159
22-DEC-2006 16:42:50	EpsCar	41	25159
22-DEC-2006 16:47:27	AlpCar	2	25159

22-DEC-2006 16:53:20	AlpCol	108	25159
22-DEC-2006 16:58:07	11AlpLep	101	25159
22-DEC-2006 17:01:05	19BetOri	7	25159
22-DEC-2006 17:08:18	87AlpTau	13	25159
22-DEC-2006 17:10:42	25EtaTau	146	25159
22-DEC-2006 17:12:47	44ZetPer	150	25159
22-DEC-2006 17:15:01	45EpsPer	149	25159
22-DEC-2006 17:17:15	39DelPer	175	25159
22-DEC-2006 17:19:10	23GamPer	160	25159
22-DEC-2006 17:28:52	1AlpUMi	49	25159
22-DEC-2006 17:33:30	7BetUMi	60	25159
22-DEC-2006 17:37:01	14EtaDra	119	25159
22-DEC-2006 17:47:37		83	25159
22-DEC-2006 17:52:45	24AlpSer	102	25159
22-DEC-2006 17:57:32	27BetLib	104	25159
22-DEC-2006 17:59:55	9Alp2Lib	122	25159
22-DEC-2006 18:06:30	5TheCen	54	25159
22-DEC-2006 18:08:20	AlpLup	78	25159
22-DEC-2006 18:12:16	BetCen	10	25159
22-DEC-2006 18:15:08	Alp1Cru	12	25160
22-DEC-2006 18:18:25	DSA1029	0	25160
22-DEC-2006 18:20:08	UpsCar	159	25160
22-DEC-2006 18:21:39	lotCar	71	25160
22-DEC-2006 18:23:26	EpsCar	41	25160
22-DEC-2006 18:28:03	AlpCar	2	25160
22-DEC-2006 18:33:56	AlpCol	108	25160
22-DEC-2006 18:38:43	11AlpLep	101	25160
22-DEC-2006 18:41:41	19BetOri	7	25160
22-DEC-2006 18:48:54	87AlpTau	13	25160
22-DEC-2006 18:51:18	25EtaTau	146	25160
22-DEC-2006 18:53:23	44ZetPer	150	25160
22-DEC-2006 18:55:37	45EpsPer	149	25160
22-DEC-2006 18:57:51	39DelPer	175	25160
22-DEC-2006 18:59:47	23GamPer	160	25160
22-DEC-2006 19:09:28	1AlpUMi	49	25160
22-DEC-2006 19:14:06	7BetUMi	60	25160
22-DEC-2006 19:17:37	14EtaDra	119	25160
22-DEC-2006 19:28:13		83	25160
22-DEC-2006 19:33:21	24AlpSer	102	25160
22-DEC-2006 19:38:08	27BetLib	104	25160
22-DEC-2006 19:40:31	9Alp2Lib	122	25160
22-DEC-2006 19:47:07	5TheCen	54	25160
22-DEC-2006 19:48:57	AlpLup	78	25160
22-DEC-2006 19:52:52	BetCen	10	25160
22-DEC-2006 19:55:45	Alp1Cru	12	25161
22-DEC-2006 19:59:01	DSA1029	0	25161
22-DEC-2006 20:00:44	UpsCar	159	25161
22-DEC-2006 20:02:15	lotCar	71	25161
22-DEC-2006 20:04:02	EpsCar	41	25161
22-DEC-2006 20:08:40	AlpCar	2	25161
22-DEC-2006 23:08:20	5TheCen	54	25162
22-DEC-2006 23:10:09	AlpLup	78	25162
22-DEC-2006 23:14:05	BetCen	10	25162
22-DEC-2006 23:16:57	Alp1Cru	12	25163
22-DEC-2006 23:20:13	DSA1029	0	25163
22-DEC-2006 23:21:57	UpsCar	159	25163
22-DEC-2006 23:23:28	lotCar	71	25163
22-DEC-2006 23:25:15	EpsCar	41	25163
22-DEC-2006 23:29:52	AlpCar	2	25163

22-DEC-2006 23:35:44	AlpCol	108	25163
22-DEC-2006 23:40:32	11AlpLep	101	25163
22-DEC-2006 23:43:29	19BetOri	7	25163
22-DEC-2006 23:50:42	87AlpTau	13	25163
22-DEC-2006 23:53:07	25EtaTau	146	25163
22-DEC-2006 23:55:11	44ZetPer	150	25163
22-DEC-2006 23:57:25	45EpsPer	149	25163
22-DEC-2006 23:59:26	13AlpAur	6	25163

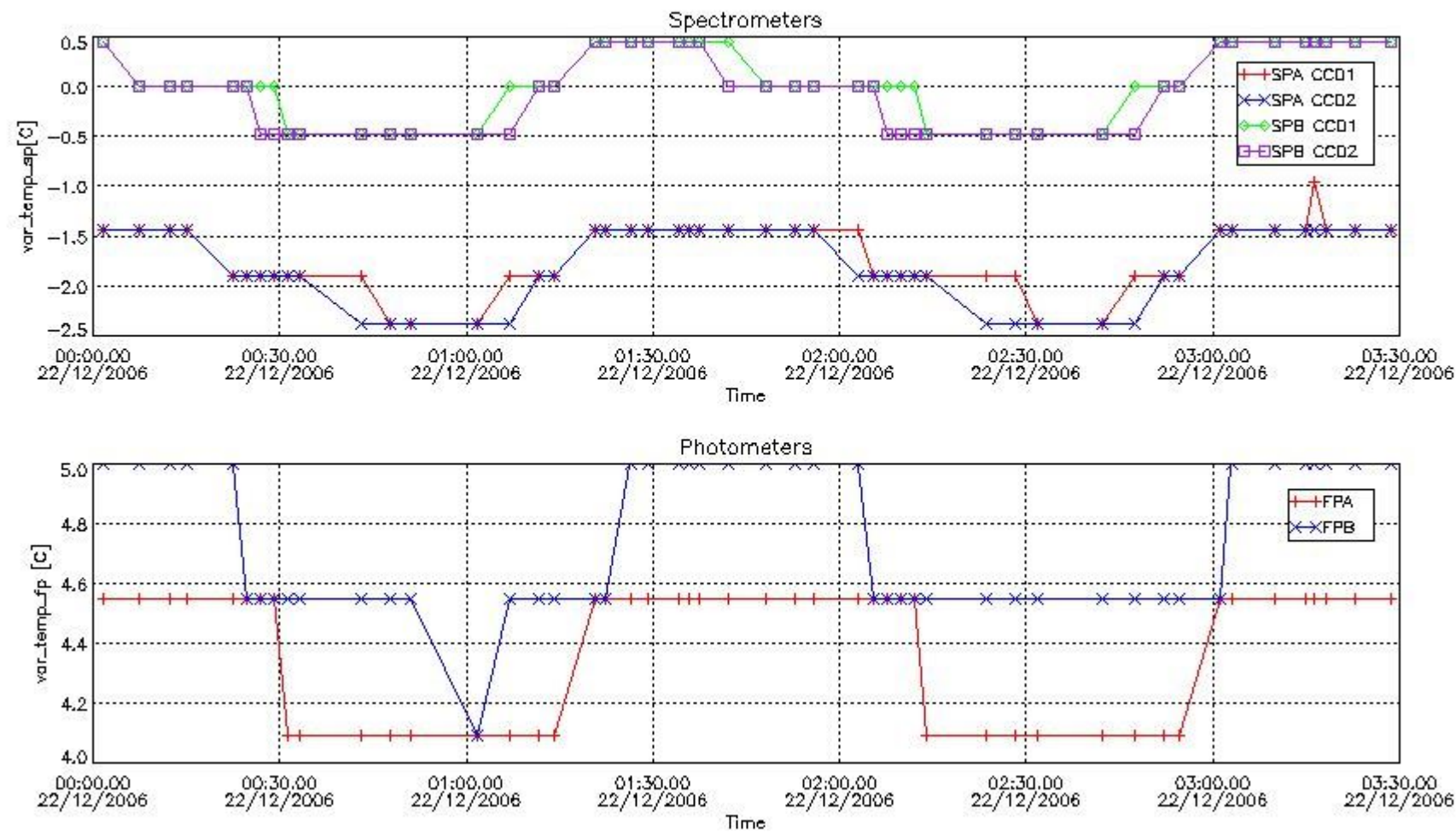
#### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20061222_000133_000000542054_00045_25149_8616.N1	22-DEC-2006 00:01:33	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	25149	No
2	GOM_TRA_1PNPDE20061222_000726_000000402054_00045_25149_8617.N1	22-DEC-2006 00:07:26	Straylight	39.500	108	Alp Col	2.6520	15200.	79	25149	No
3	GOM_TRA_1PNPDE20061222_001215_000000462054_00045_25149_8618.N1	22-DEC-2006 00:12:15	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	25149	No
4	GOM_TRA_1PNPDE20061222_001513_000000472054_00045_25149_8619.N1	22-DEC-2006 00:15:13	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	25149	No
5	GOM_TRA_1PNPDE20061222_002227_000000482054_00045_25149_8620.N1	22-DEC-2006 00:22:27	Twilight	47.500	13	87Alp Tau	0.86700	3800.0	95	25149	No
6	GOM_TRA_1PNPDE20061222_002450_000000362054_00045_25149_8621.N1	22-DEC-2006 00:24:50	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	25149	No
7	GOM_TRA_1PNPDE20061222_002655_000000362054_00045_25149_8622.N1	22-DEC-2006 00:26:55	Bright	35.500	150	44Zet Per	2.8900	28000.	71	25149	No
8	GOM_TRA_1PNPDE20061222_002909_000000352054_00045_25149_8623.N1	22-DEC-2006 00:29:09	Bright	34.500	149	45Eps Per	2.8880	30000.	69	25149	No
9	GOM_TRA_1PNPDE20061222_003123_000000342054_00045_25149_8624.N1	22-DEC-2006 00:31:23	Bright	33.500	175	39Del Per	3.0100	19400.	67	25149	No
10	GOM_TRA_1PNPDE20061222_003318_000000342054_00045_25149_8625.N1	22-DEC-2006 00:33:18	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	25149	No
11	GOM_TRA_1PNPDE20061222_004300_000000362054_00045_25149_8626.N1	22-DEC-2006 00:43:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	25149	No
12	GOM_TRA_1PNPDE20061222_004740_000000362054_00045_25149_8627.N1	22-DEC-2006 00:47:40	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	25149	No
13	GOM_TRA_1PNPDE20061222_005108_000000362054_00045_25149_8628.N1	22-DEC-2006 00:51:08	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25149	No
14	GOM_TRA_1PNPDE20061222_010144_000000382054_00045_25149_8629.N1	22-DEC-2006 01:01:44	Bright	37.500	83		2.3780	11000.	75	25149	No
15	GOM_TRA_1PNPDE20061222_010652_000000342054_00045_25149_8630.N1	22-DEC-2006 01:06:52	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25149	No
16	GOM_TRA_1PNPDE20061222_011138_000000352054_00045_25149_8631.N1	22-DEC-2006 01:11:38	Bright	34.500	104	27Bet Lib	2.6140	13100.	69	25149	No
17	GOM_TRA_1PNPDE20061222_011400_000000372054_00045_25149_8754.N1	22-DEC-2006 01:14:00	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	25149	No
18	GOM_TRA_1PNPDE20061222_012034_000000432054_00045_25149_8755.N1	22-DEC-2006 01:20:34	Dark	43.000	54	5The Cen	2.0550	4500.0	86	25149	No
19	GOM_TRA_1PNPDE20061222_012226_000000382054_00045_25149_8756.N1	22-DEC-2006 01:22:26	Dark	37.500	78	Alp Lup	2.3040	28000.	75	25149	No
20	GOM_TRA_1PNPDE20061222_012622_000000402054_00045_25149_8757.N1	22-DEC-2006 01:26:22	Dark	39.500	10	Bet Cen	0.61000	28000.	79	25149	No
21	GOM_TRA_1PNPDE20061222_012912_000000432054_00046_25150_8758.N1	22-DEC-2006 01:29:12	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	25150	No
22	GOM_TRA_1PNPDE20061222_013412_000000392054_00046_25150_8759.N1	22-DEC-2006 01:34:12	Dark	39.000	159	Ups Car	2.9200	7200.0	78	25150	No
23	GOM_TRA_1PNPDE20061222_013542_000000402054_00046_25150_8760.N1	22-DEC-2006 01:35:42	Dark	40.000	71	lot Car	2.2460	7700.0	80	25150	No
24	GOM_TRA_1PNPDE20061222_013730_000000512054_00046_25150_8761.N1	22-DEC-2006 01:37:30	Dark	51.000	41	Eps Car	1.8600	4100.0	102	25150	No
25	GOM_TRA_1PNPDE20061222_014209_000000442054_00046_25150_8762.N1	22-DEC-2006 01:42:09	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	25150	No
26	GOM_TRA_1PNPDE20061222_014802_000000412054_00046_25150_8763.N1	22-DEC-2006 01:48:02	Straylight	40.500	108	Alp Col	2.6520	15200.	81	25150	No
27	GOM_TRA_1PNPDE20061222_015251_000000442054_00046_25150_8764.N1	22-DEC-2006 01:52:51	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	25150	No
28	GOM_TRA_1PNPDE20061222_015549_000000482054_00046_25150_8765.N1	22-DEC-2006 01:55:49	Straylight	47.500	7	19Bet Ori	0.10000	14000.	95	25150	No
29	GOM_TRA_1PNPDE20061222_020303_000000522054_00046_25150_8766.N1	22-DEC-2006 02:03:03	Twilight	51.500	13	87Alp Tau	0.86700	3800.0	103	25150	No
30	GOM_TRA_1PNPDE20061222_020526_000000362054_00046_25150_8767.N1	22-DEC-2006 02:05:26	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	25150	No
31	GOM_TRA_1PNPDE20061222_020731_000000352054_00046_25150_8768.N1	22-DEC-2006 02:07:31	Bright	35.000	150	44Zet Per	2.8900	28000.	70	25150	No
32	GOM_TRA_1PNPDE20061222_020945_000000352054_00046_25150_8769.N1	22-DEC-2006 02:09:45	Bright	35.000	149	45Eps Per	2.8880	30000.	70	25150	No
33	GOM_TRA_1PNPDE20061222_021159_000000332054_00046_25150_8770.N1	22-DEC-2006 02:11:59	Bright	33.000	175	39Del Per	3.0100	19400.	66	25150	No
34	GOM_TRA_1PNPDE20061222_021354_000000352054_00046_25150_8771.N1	22-DEC-2006 02:13:54	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	25150	No
35	GOM_TRA_1PNPDE20061222_022336_000000342054_00046_25150_8772.N1	22-DEC-2006 02:23:36	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	25150	No
36	GOM_TRA_1PNPDE20061222_022816_000000392054_00046_25150_9106.N1	22-DEC-2006 02:28:16	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	25150	No
37	GOM_TRA_1PNPDE20061222_023144_000000352054_00046_25150_9107.N1	22-DEC-2006 02:31:44	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	25150	No
38	GOM_TRA_1PNPDE20061222_024220_000000392054_00046_25150_9108.N1	22-DEC-2006 02:42:20	Bright	38.500	83		2.3780	11000.	77	25150	No
39	GOM_TRA_1PNPDE20061222_024728_000000342054_00046_25150_9109.N1	22-DEC-2006 02:47:28	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	25150	No
40	GOM_TRA_1PNPDE20061222_025214_000000362054_00046_25150_9110.N1	22-DEC-2006 02:52:14	Bright	35.500	104	27Bet Lib	2.6140	13100.	71	25150	No
41	GOM_TRA_1PNPDE20061222_025436_000000492054_00046_25150_9111.N1	22-DEC-2006 02:54:36	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	25150	No
42	GOM_TRA_1PNPDE20061222_030110_000000432054_00046_25150_9112.N1	22-DEC-2006 03:01:10	Dark	42.500	54	5The Cen	2.0550	4500.0	85	25150	No
43	GOM_TRA_1PNPDE20061222_030302_000000402054_00046_25150_9113.N1	22-DEC-2006 03:03:02	Dark	40.000	123	lot Cen	2.7500	10200.	80	25150	No
44	GOM_TRA_1PNPDE20061222_030949_000000382054_00047_25151_9114.N1	22-DEC-2006 03:09:49	Dark	37.500	12	Alp1Cru	0.77500	30000.	75	25151	No
45	GOM_TRA_1PNPDE20061222_031448_000000392054_00047_25151_9115.N1	22-DEC-2006 03:14:48	Dark	38.500	159	Ups Car	2.9200	7200.0	77	25151	No
46	GOM_TRA_1PNPDE20061222_031618_000000412054_00047_25151_9116.N1	22-DEC-2006 03:16:18	Dark	40.500	71	lot Car	2.2460	7700.0	81	25151	No



47	GOM_TRA_1PNPDE20061222_031806_000000482054_00047_25151_9117.N1	22-DEC-2006 03:18:06	Dark	47.500	41	Eps Car	1.8600	4100.0	95	25151	No
48	GOM_TRA_1PNPDE20061222_032245_000000462054_00047_25151_9118.N1	22-DEC-2006 03:22:45	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	25151	No
49	GOM_TRA_1PNPDE20061222_032838_000000402054_00047_25151_9119.N1	22-DEC-2006 03:28:38	Straylight	39.500	108	Alp Col	2.6520	15200.	79	25151	No

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



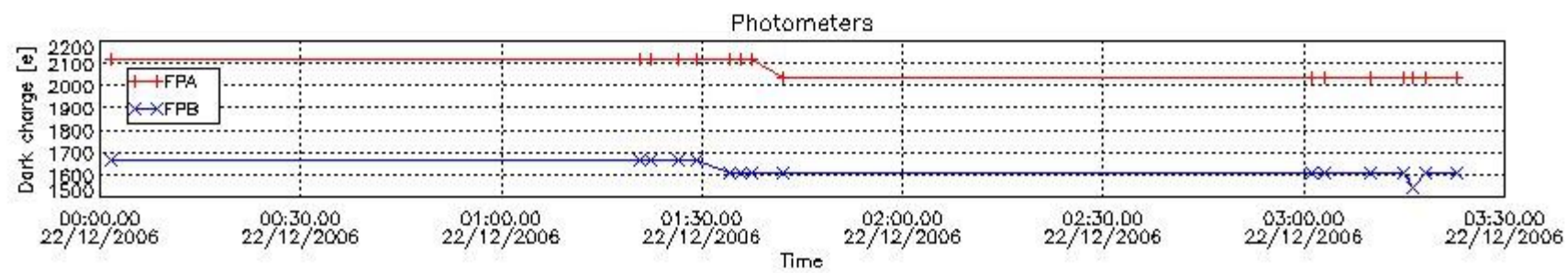
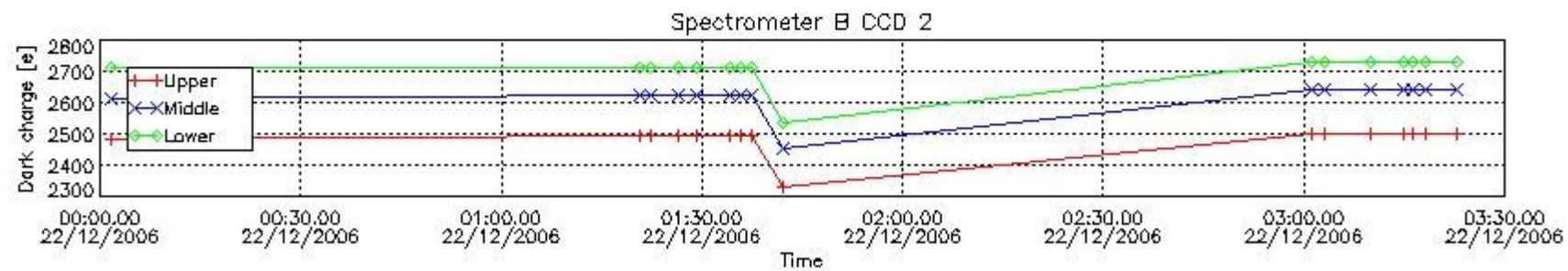
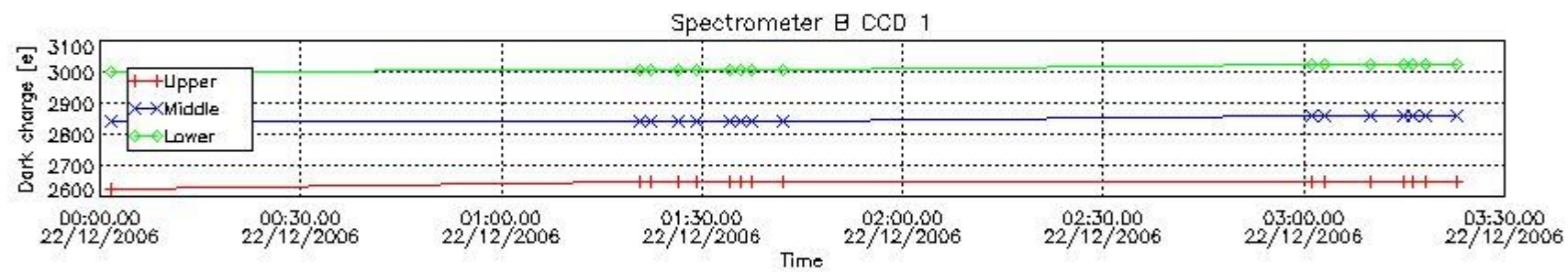
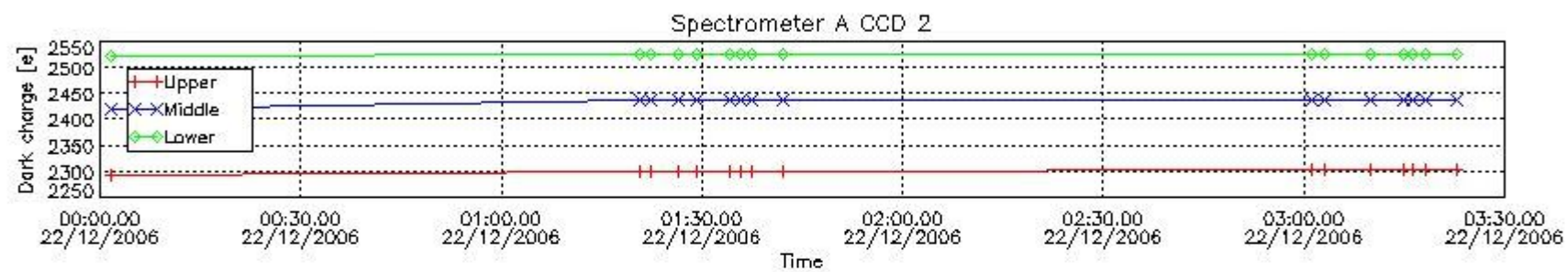
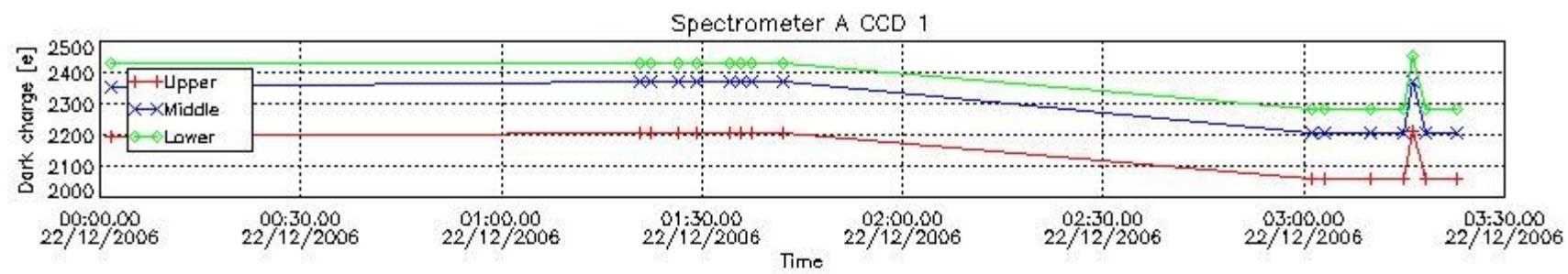
### 4. Overview of dark signal processing per product

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

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

#### 4.1 All products used the DSA observation for the DC computation

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



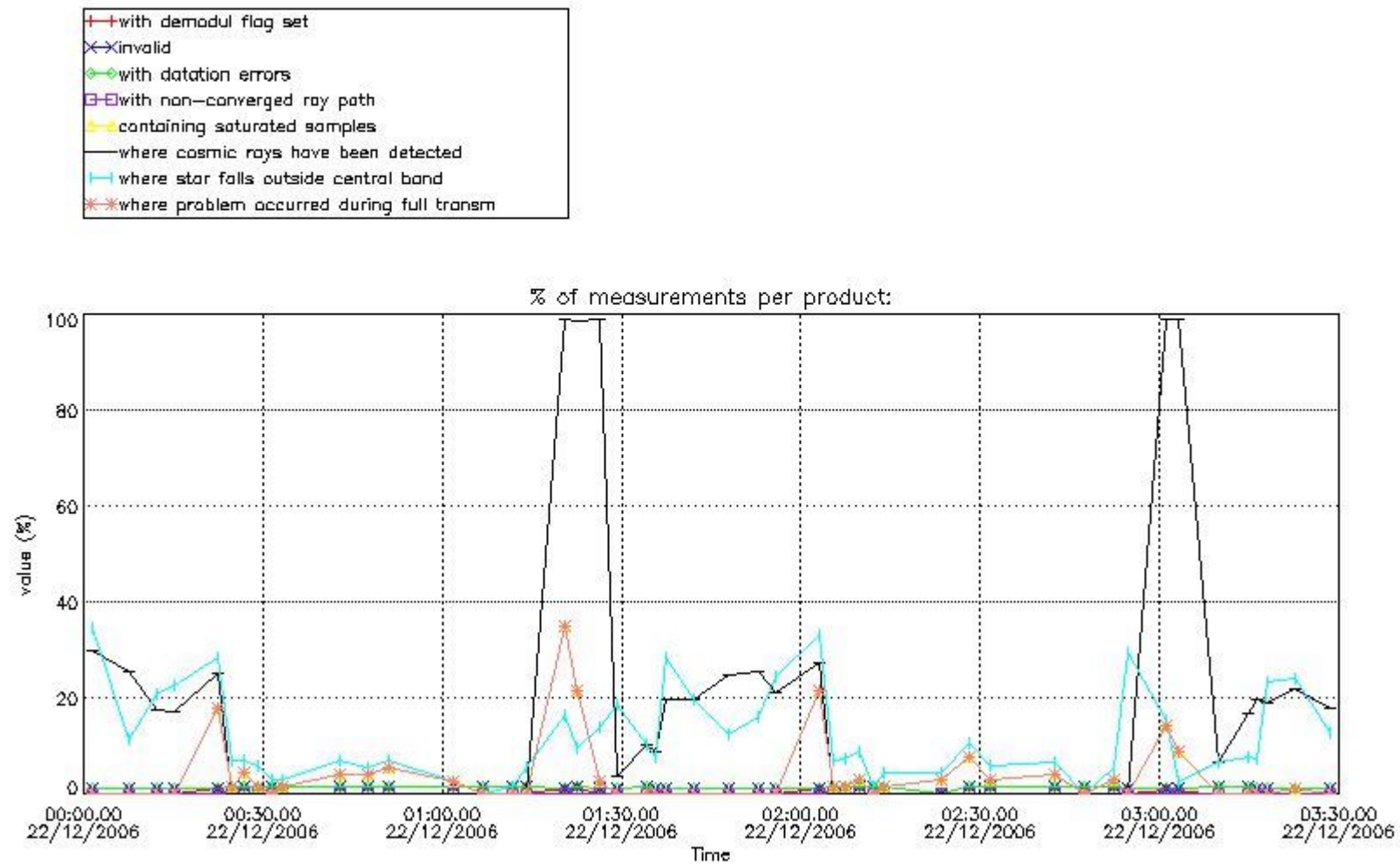
## 5. Demodulation flag and quality information monitoring

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

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

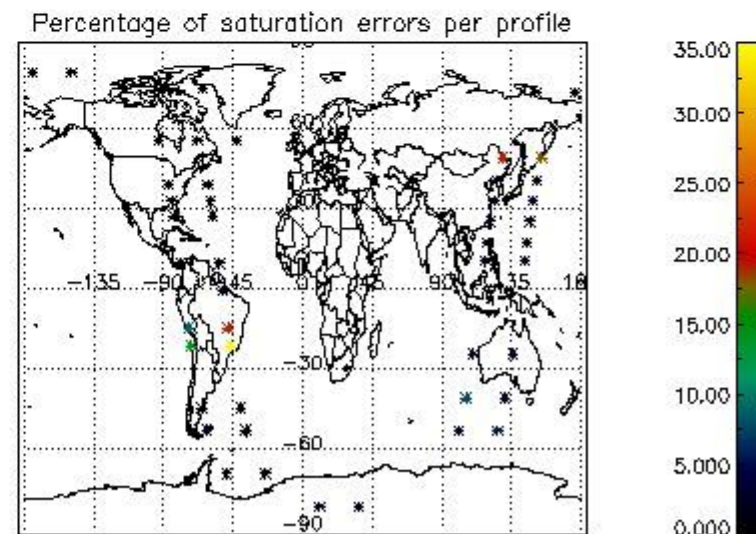
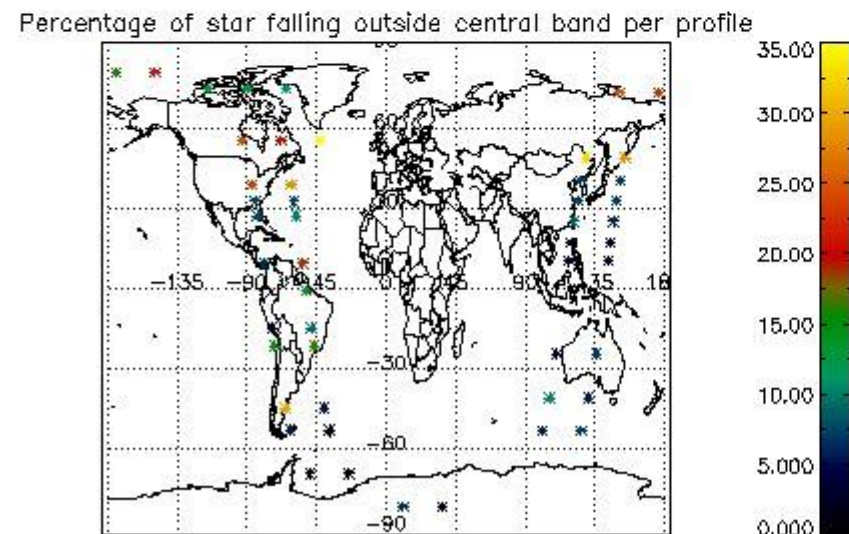
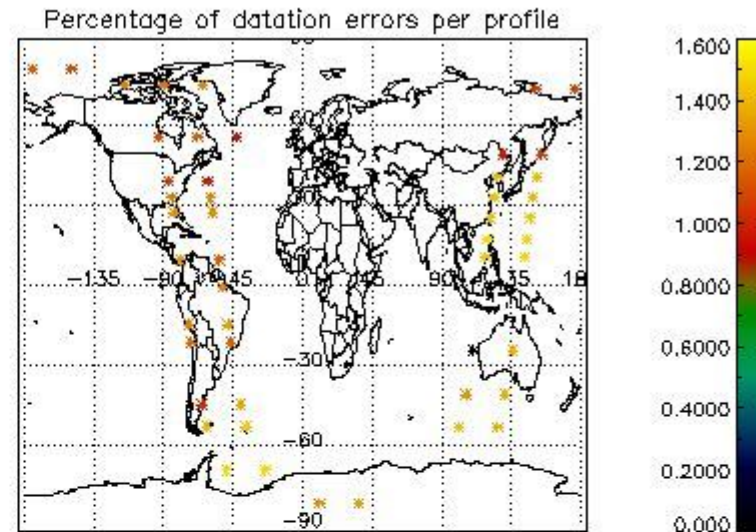
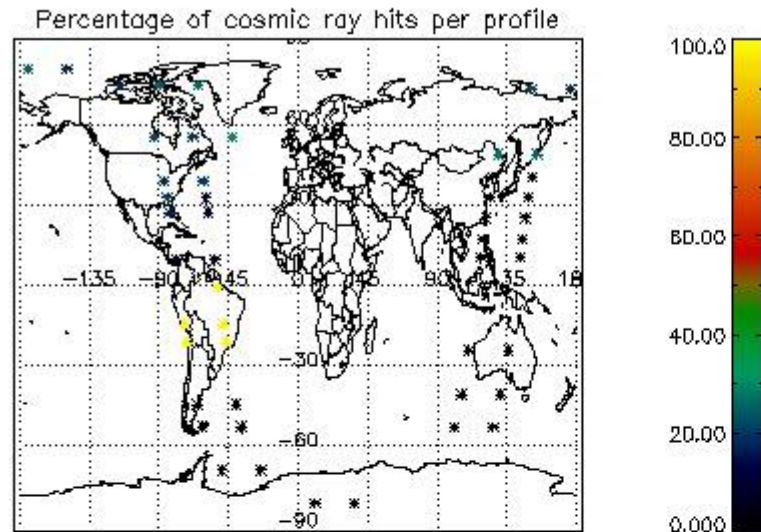
At least one measurement with demodulation flag set:	20.4082 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





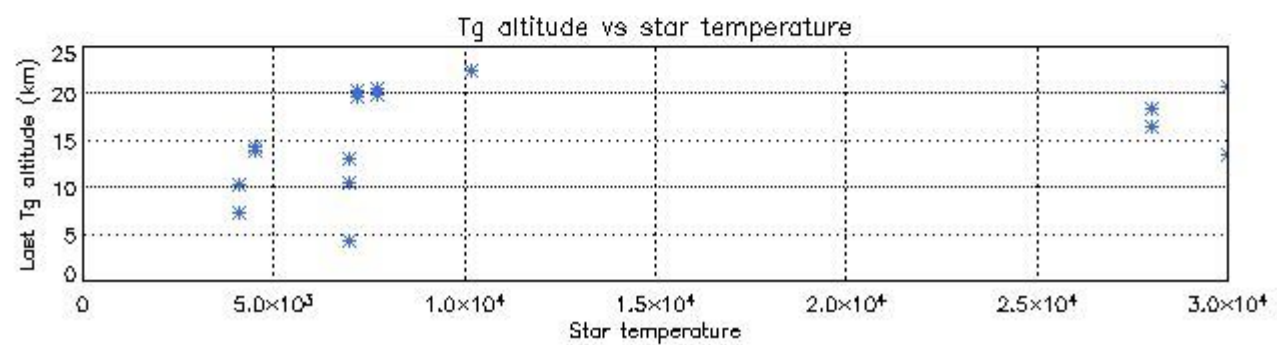
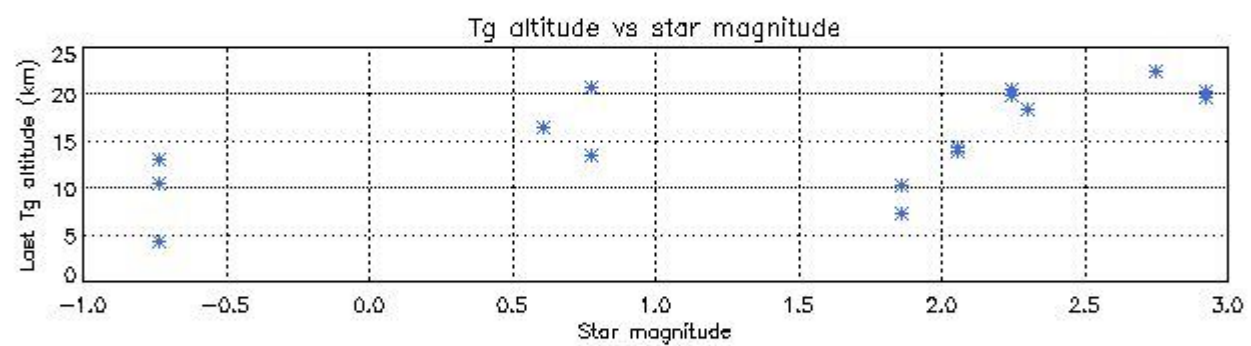
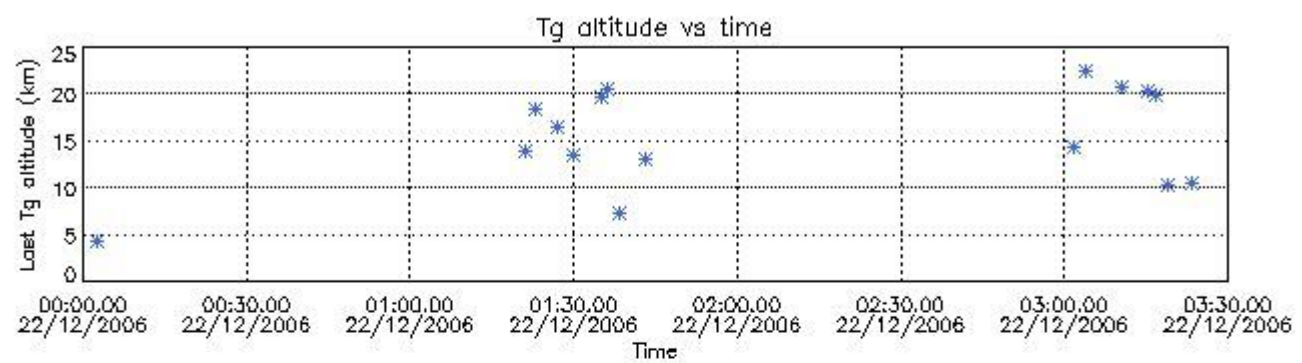
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.320	21.539	NaN
St. deviation:	5.3727	3.6724	NaN
Maximum:	22.446	25.928	NaN
Minimum:	4.1803	7.1338	NaN
Number of data:	16.000	24.000	NaN

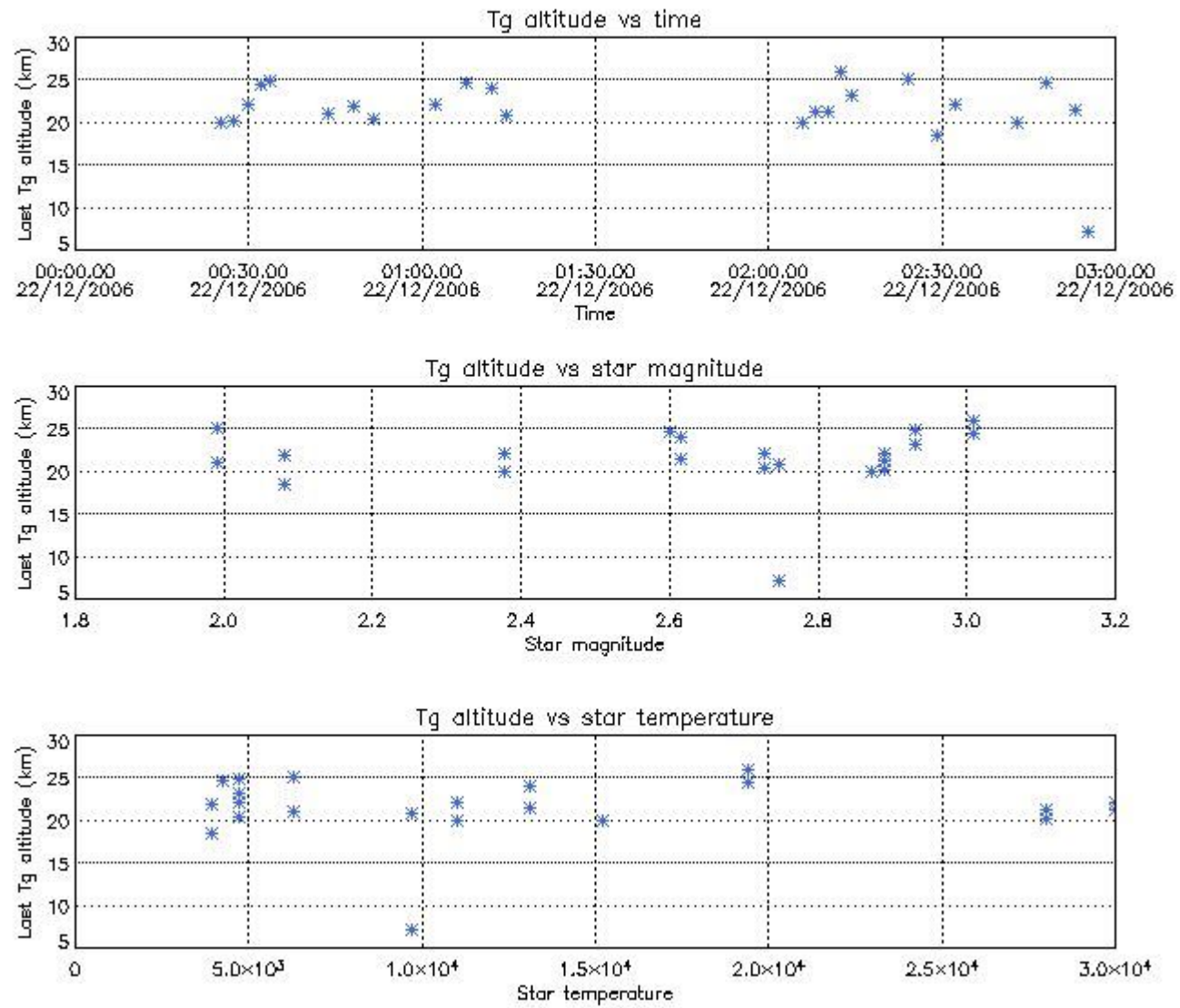
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



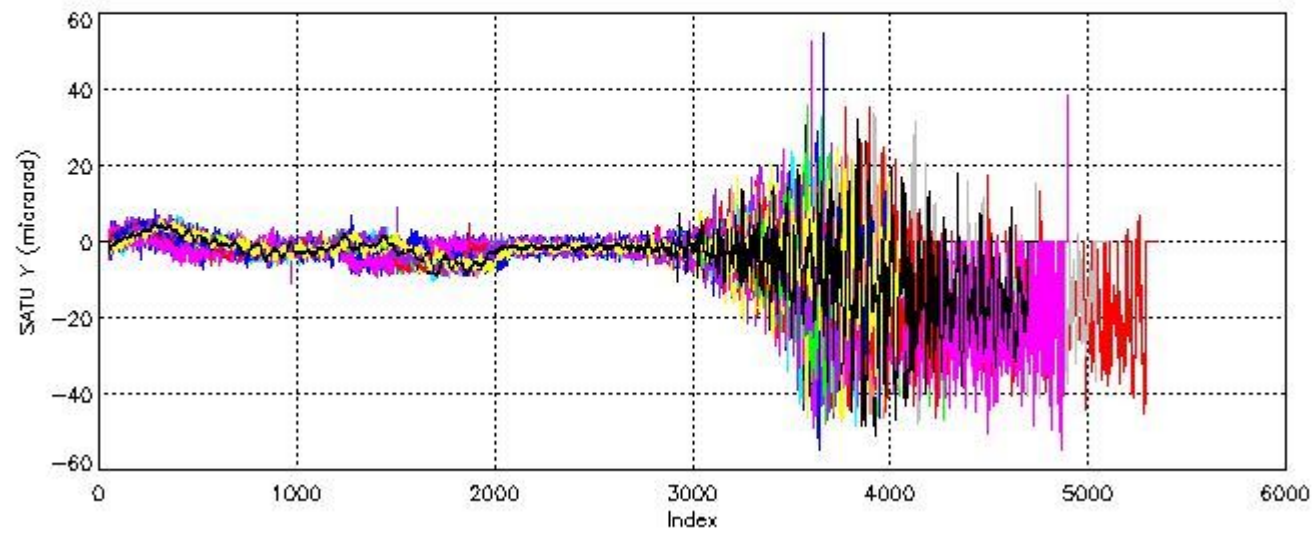
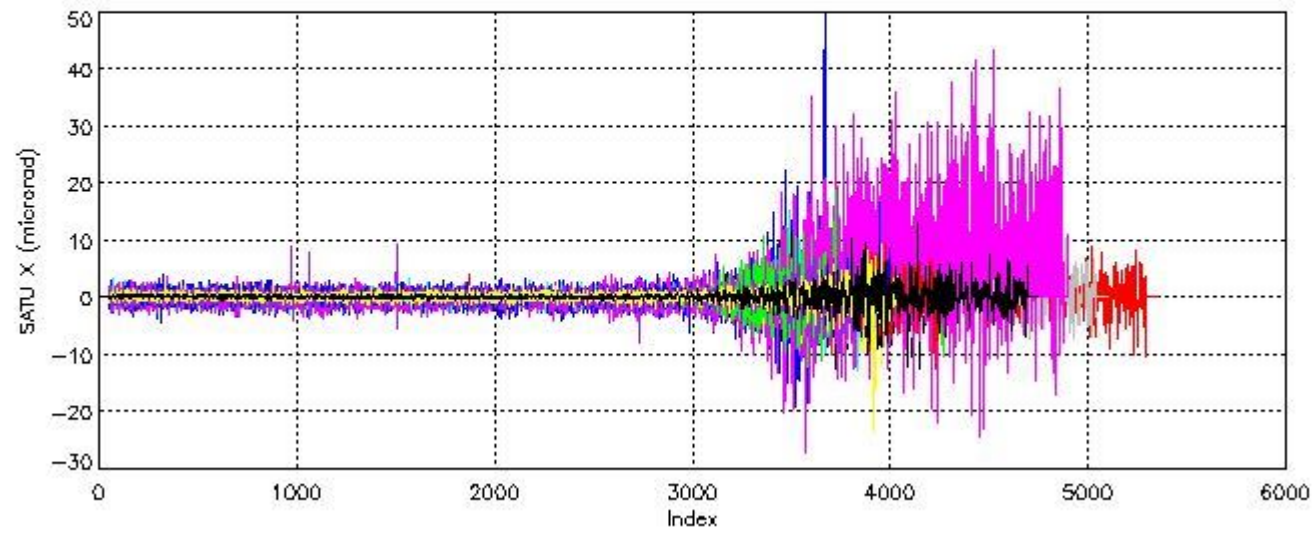
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.12065	0.23931	0.059652	-0.58884
St. deviation:	0.41910	2.4944	0.97071	2.2442
Maximum:	3.4000	8.2000	6.2000	9.3000
Minimum:	-4.4000	-7.1000	-5.6000	-9.6000



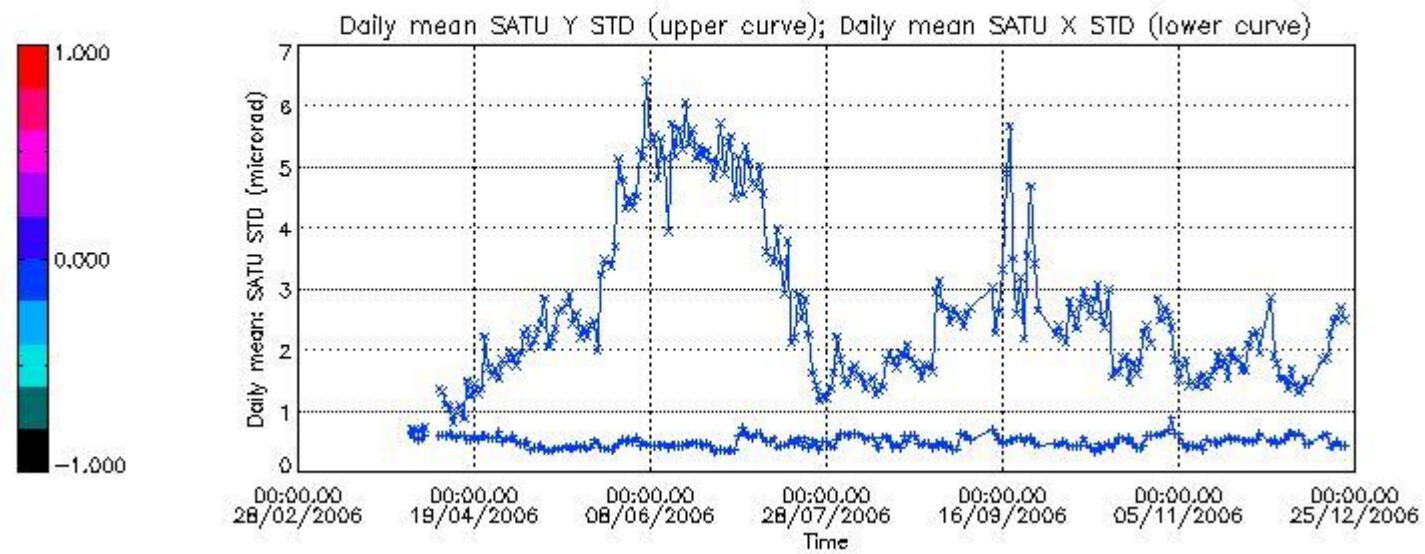
Number of data:	14650.	14650.	19900.	19900.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

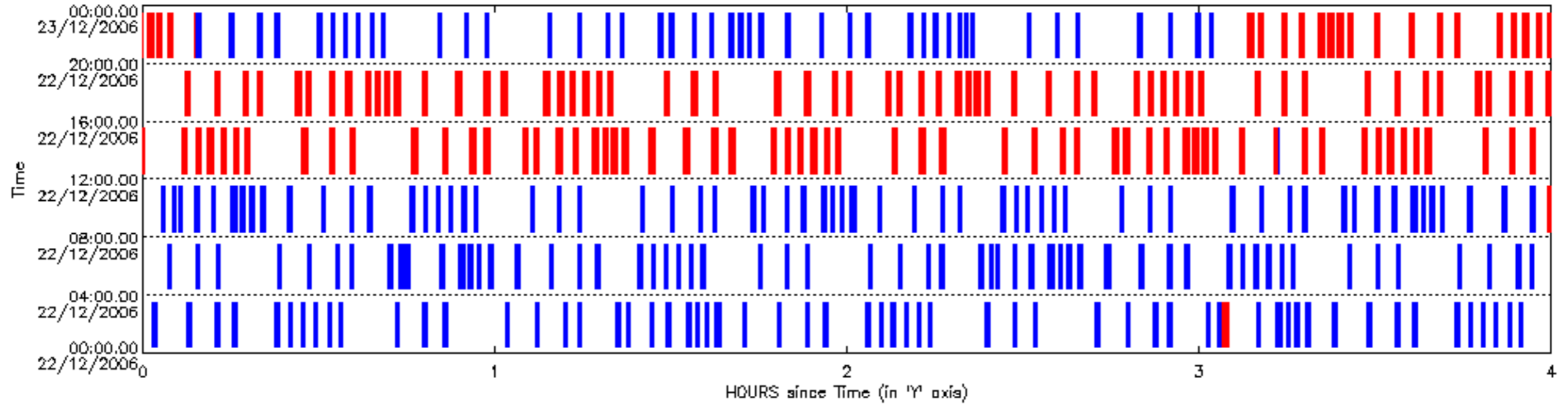
Upper curve: STD of SATU Y axis  
Lower curve: STD of SATU X axis

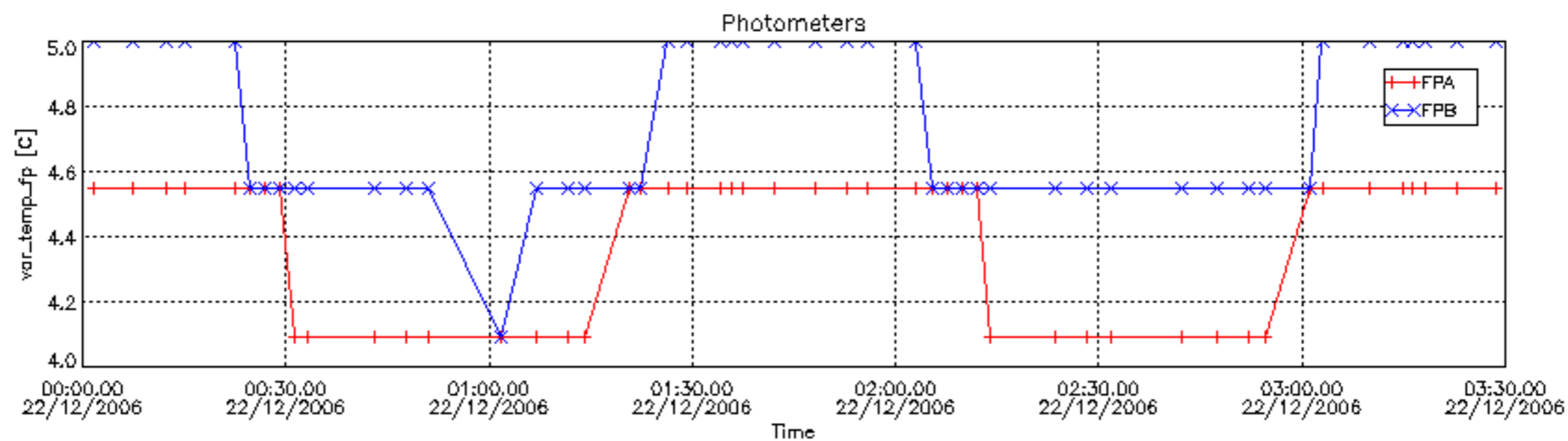
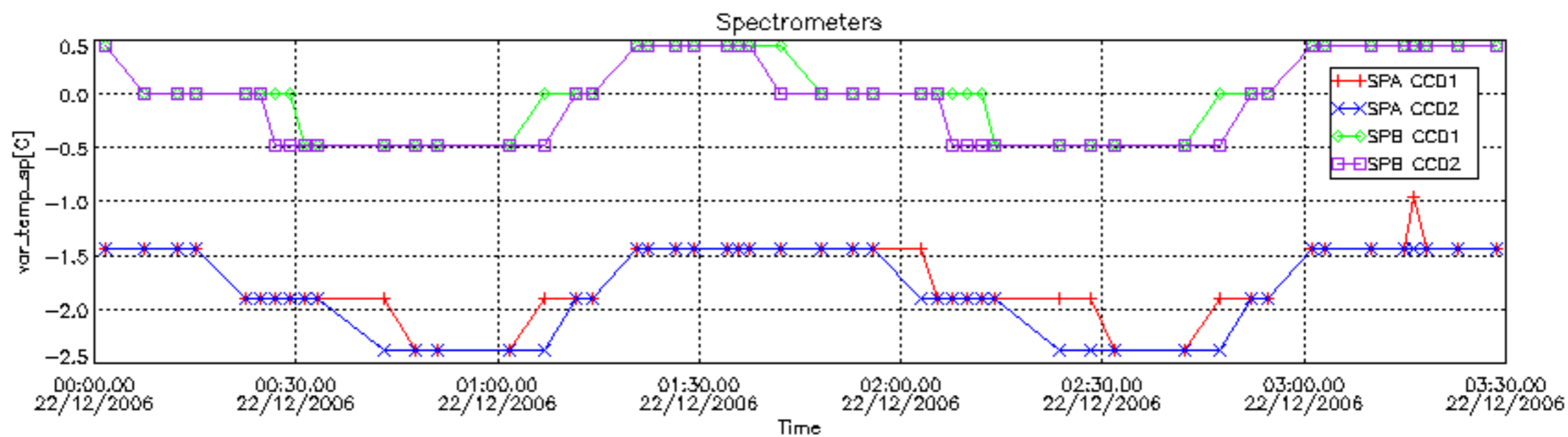


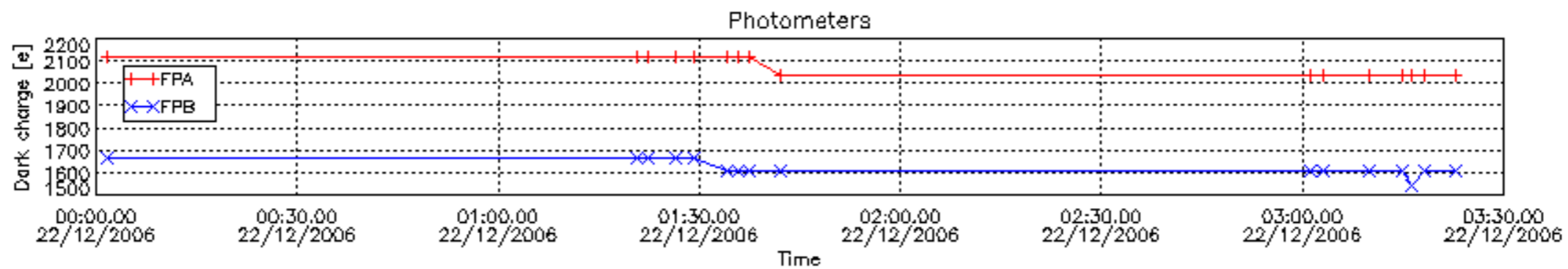
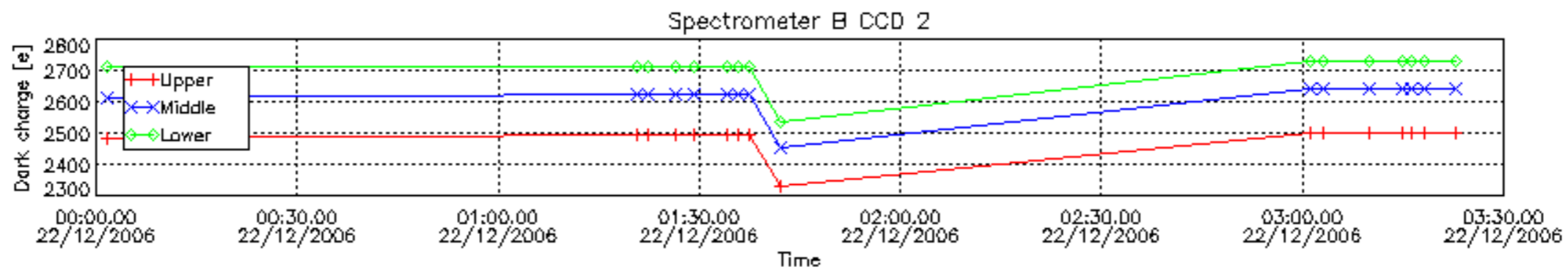
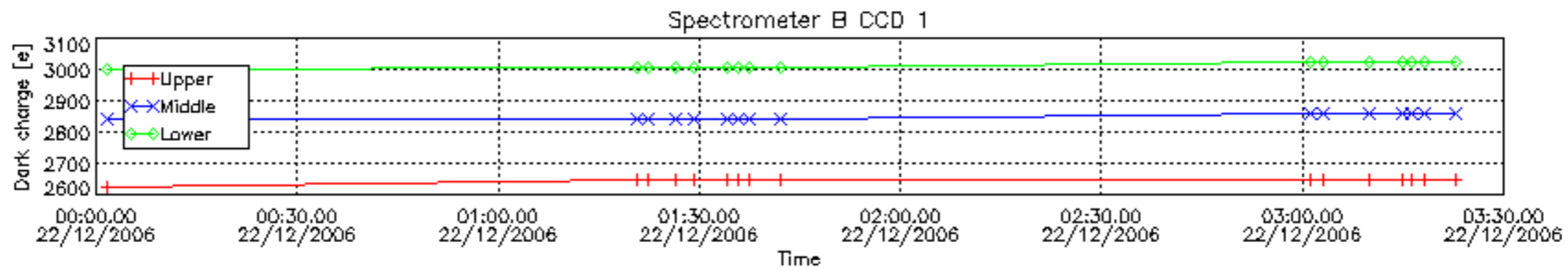
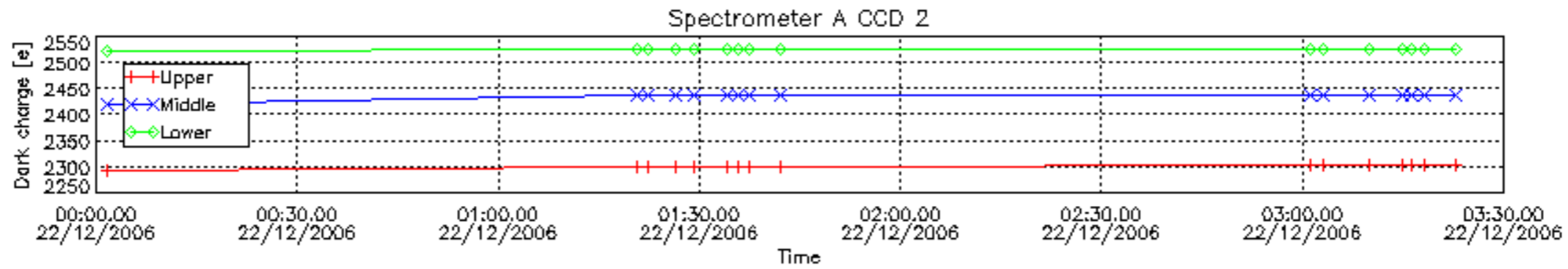
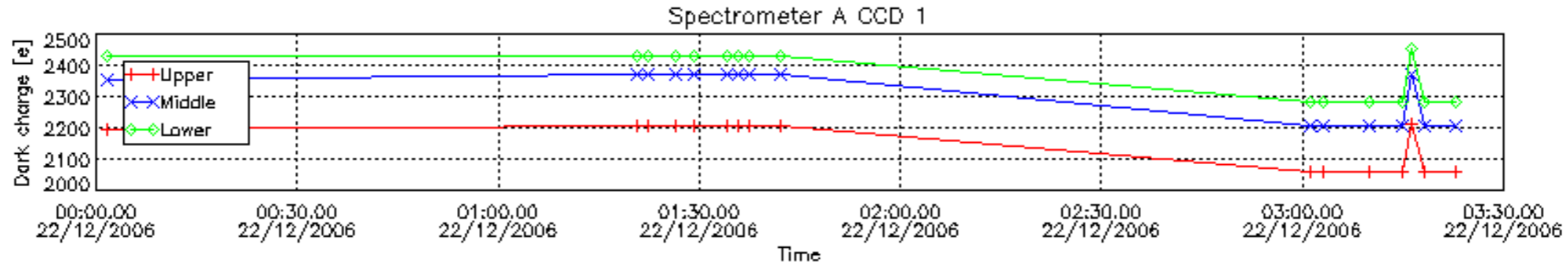
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

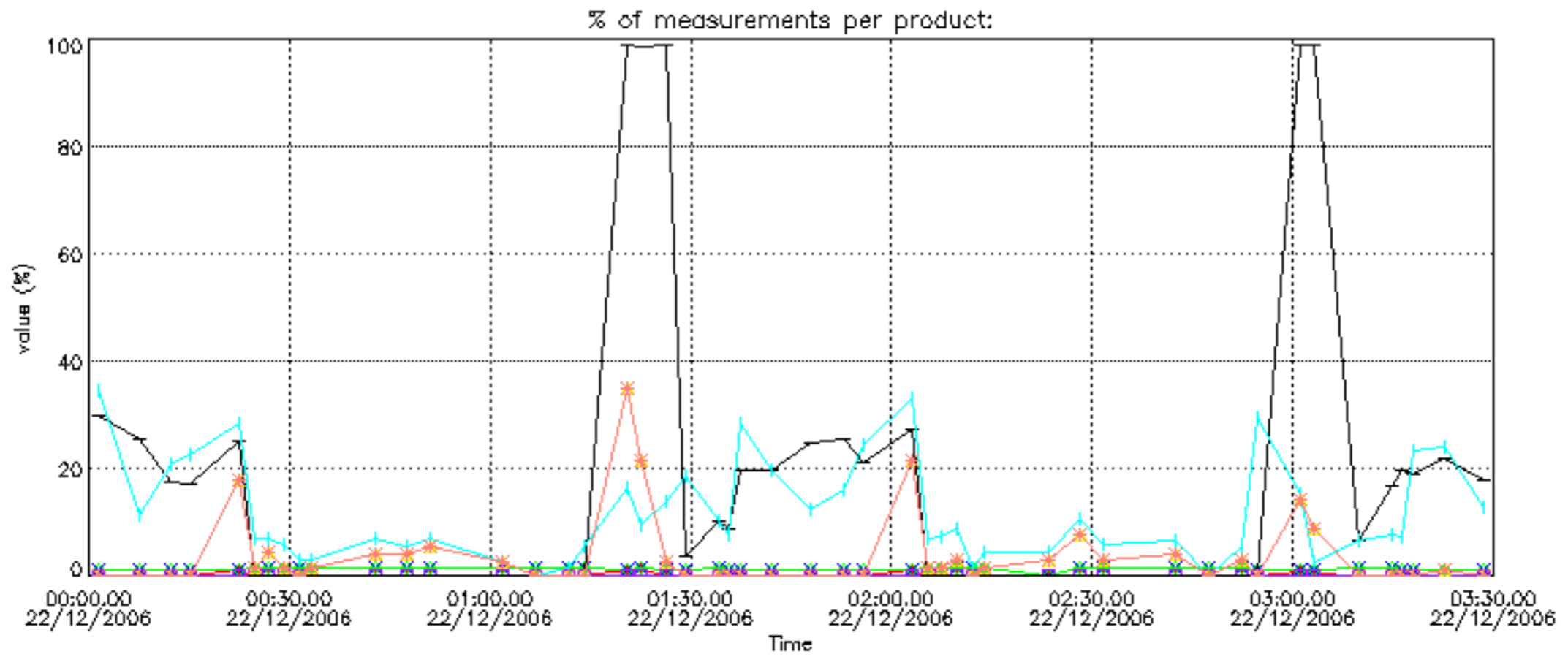
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-DEC-2006 00:01:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20061218_092922_20061217_000000_20100101_000000	1	22-DEC-2006 00:01:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-DEC-2006 00:01:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-DEC-2006 00:01:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-DEC-2006 00:01:33
ECMWF_FILE	AUX_ECF_AXNECM20061221_062144_20061221_210000_20061222_090000	1	22-DEC-2006 00:01:33
OPTIONAL_ECMWF_FILE	MISSING	1	22-DEC-2006 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20061221_215106_000057382054_00043_25147_2404.N1	1	22-DEC-2006 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20061221_233203_000057382054_00044_25148_2405.N1	17	22-DEC-2006 01:14:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20061222_011300_000038252054_00045_25149_2406.N1	36	22-DEC-2006 02:28:16



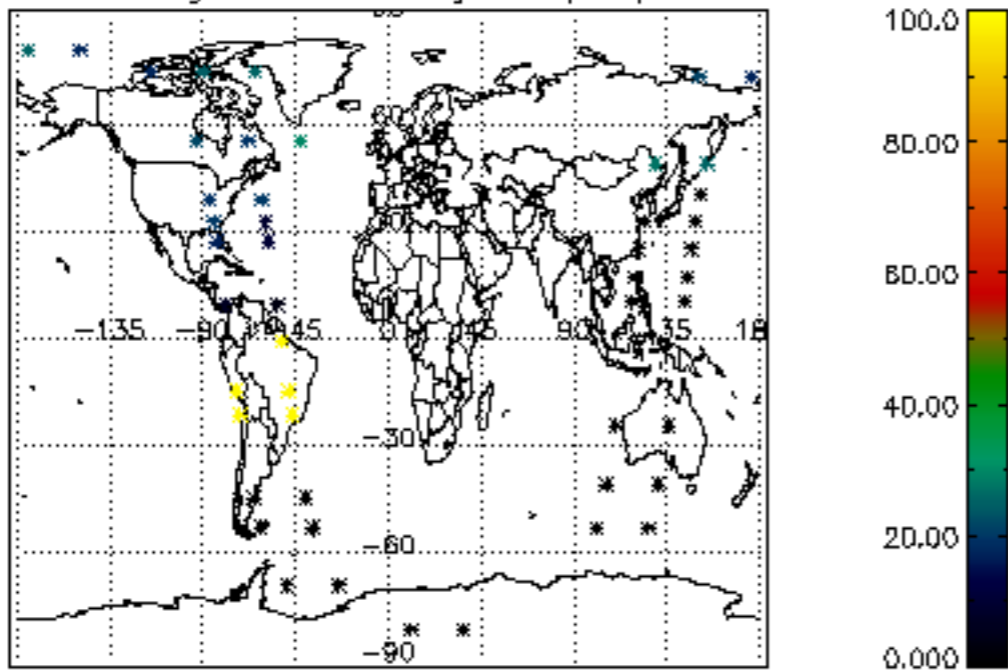




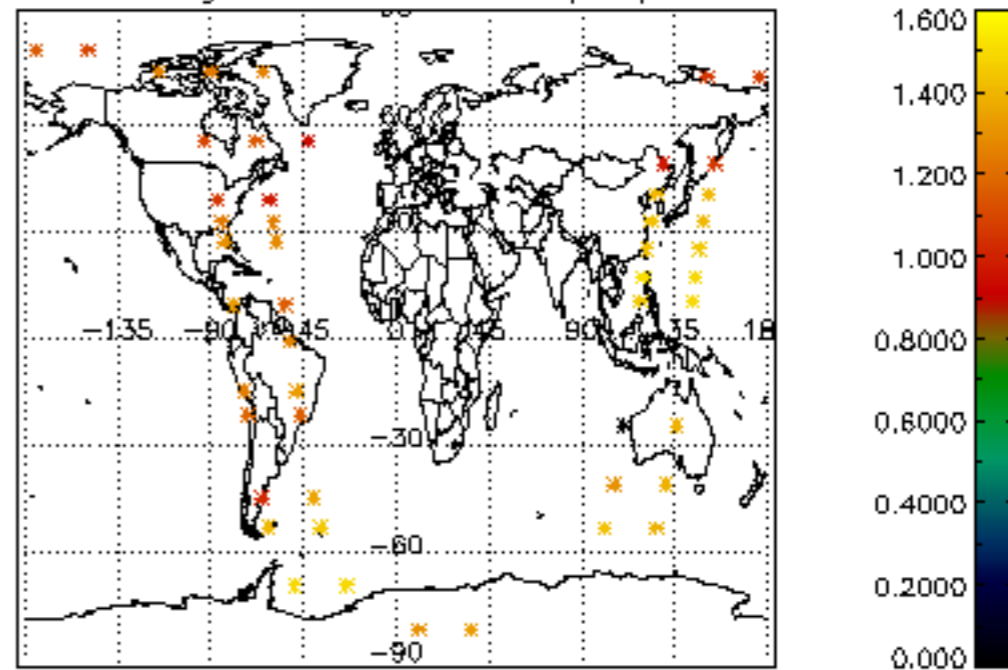




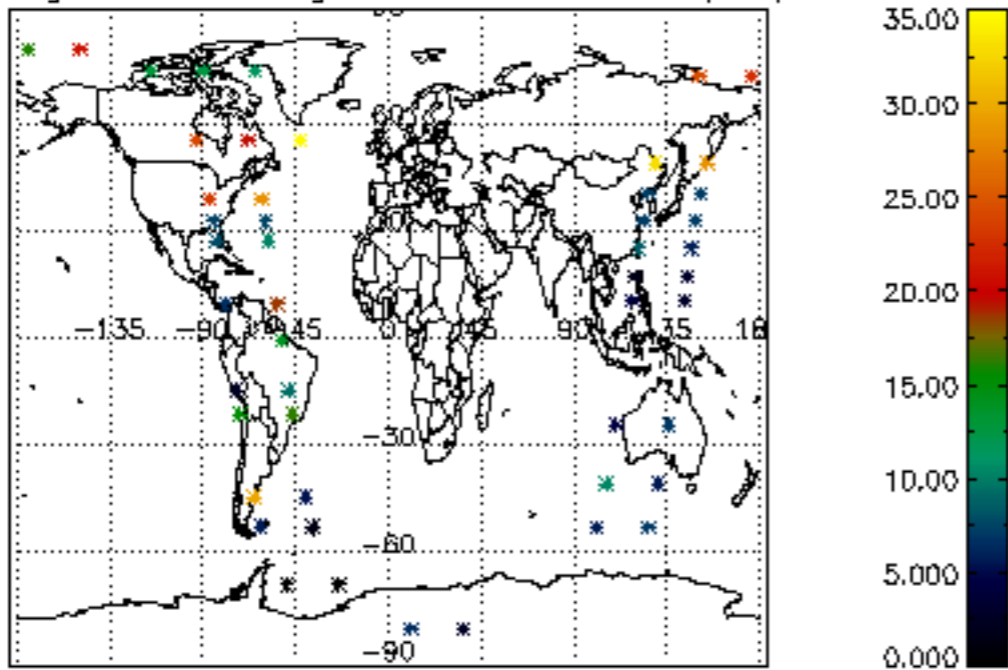
Percentage of cosmic ray hits per profile



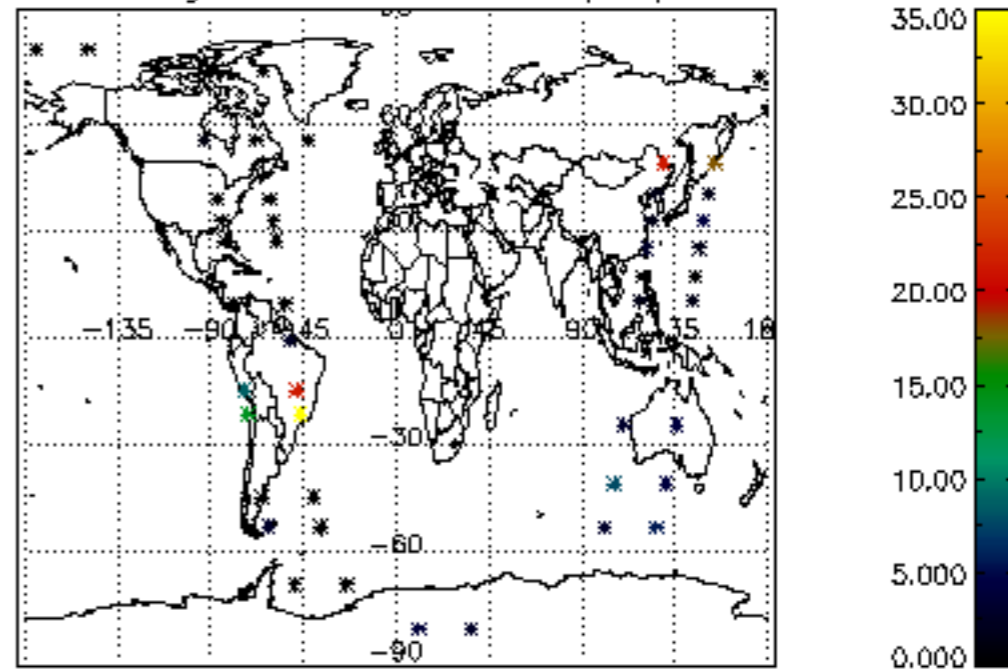
Percentage of datation errors per profile



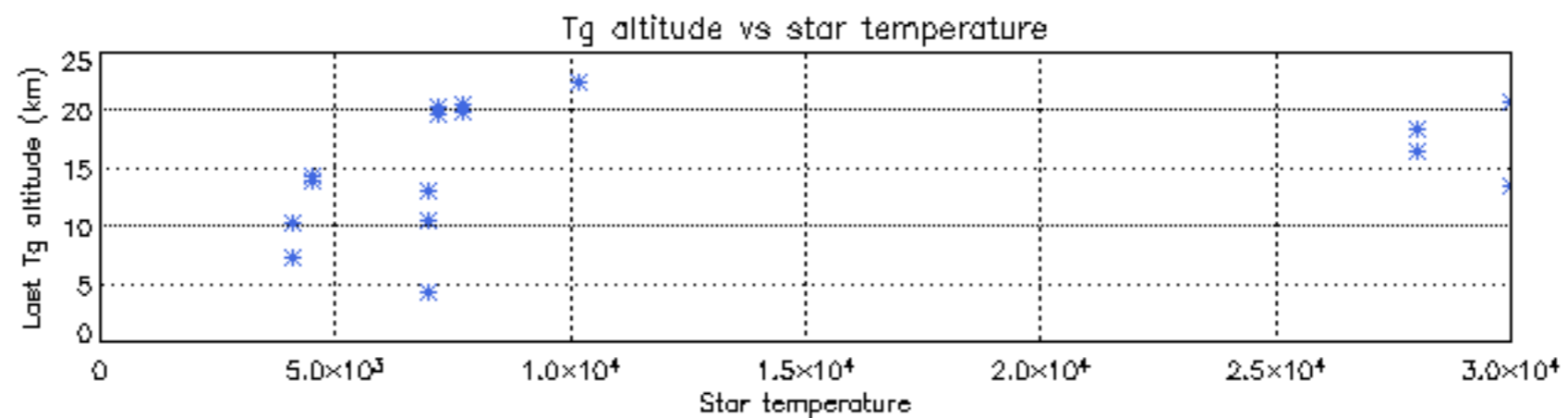
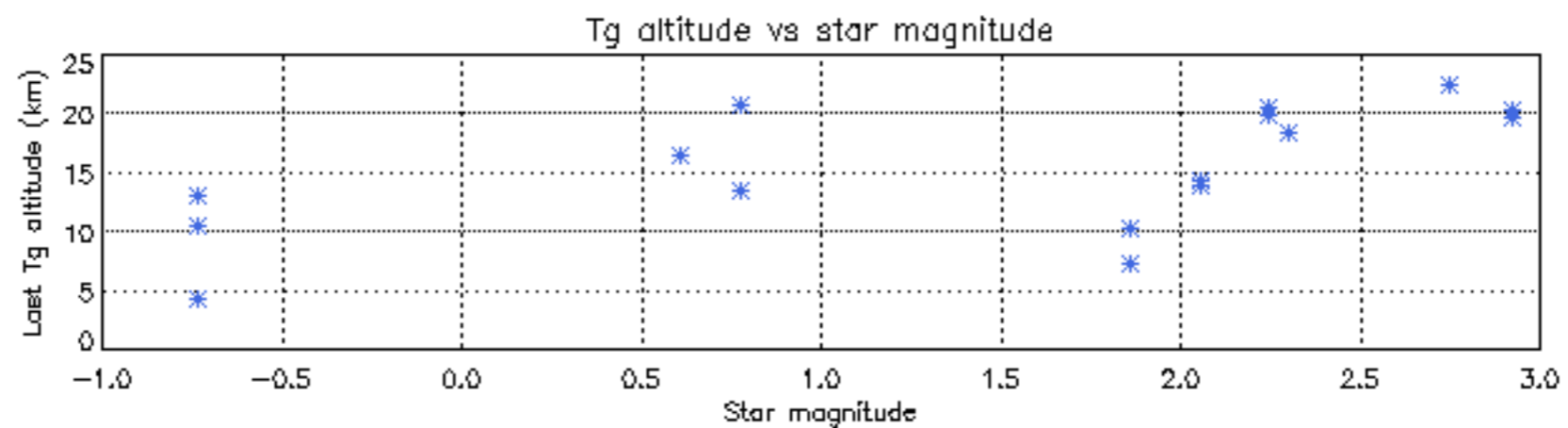
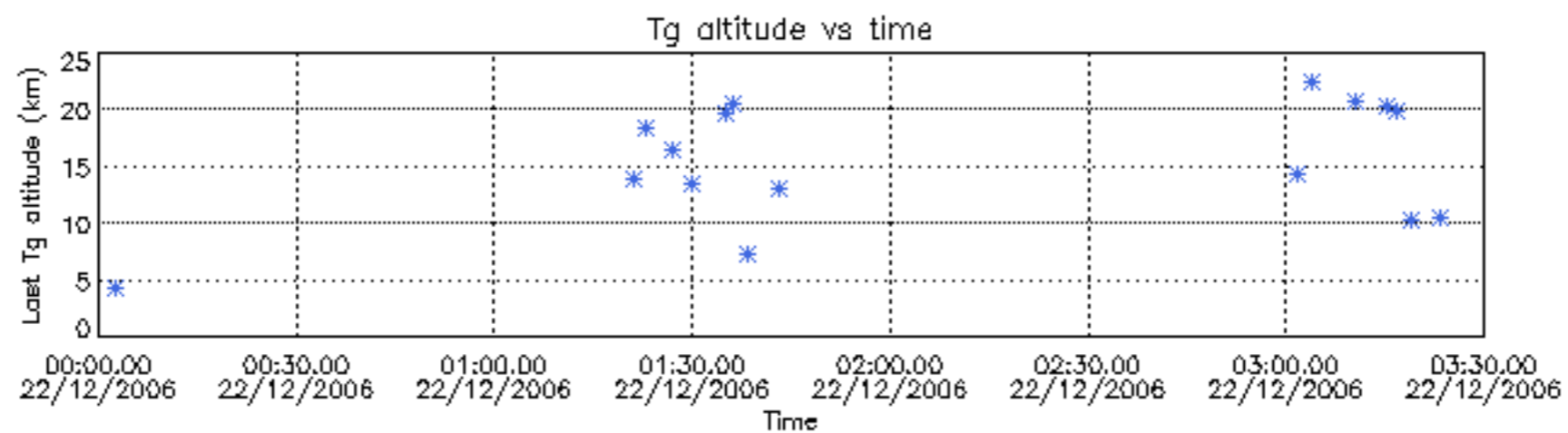
Percentage of star falling outside central band per profile



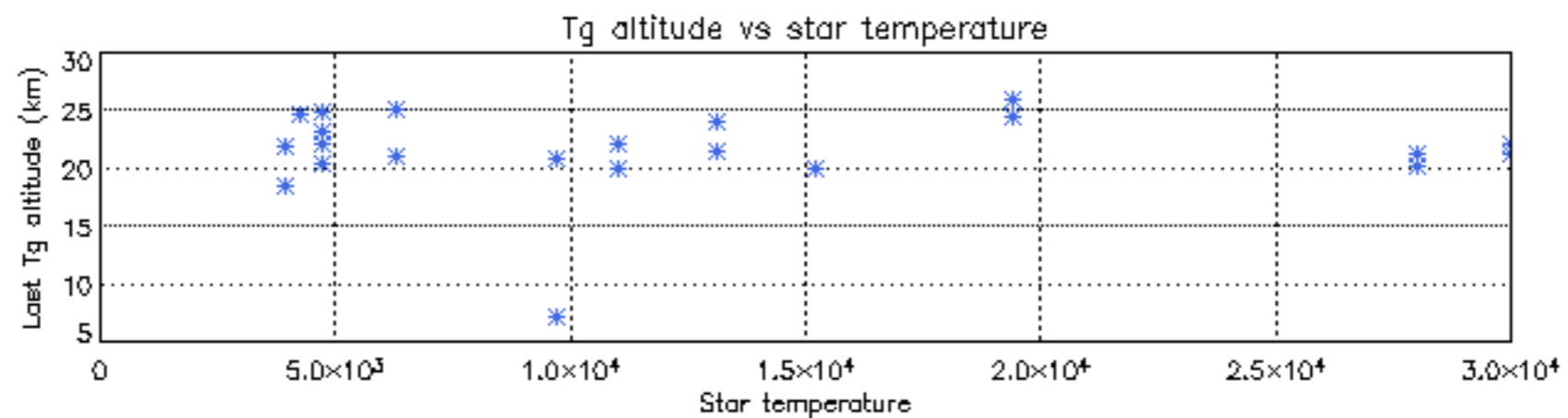
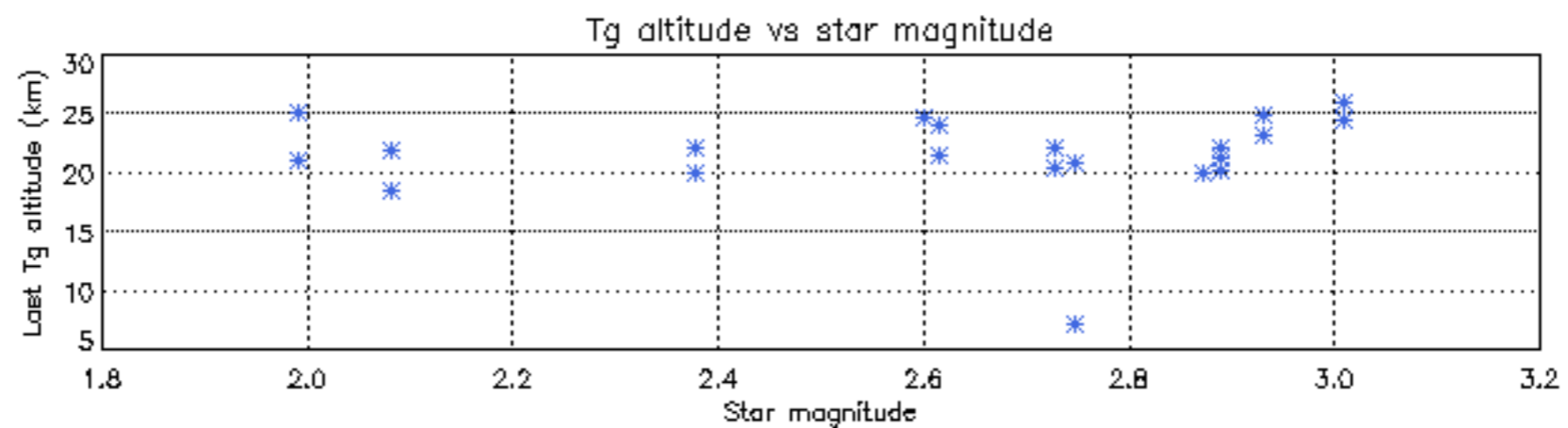
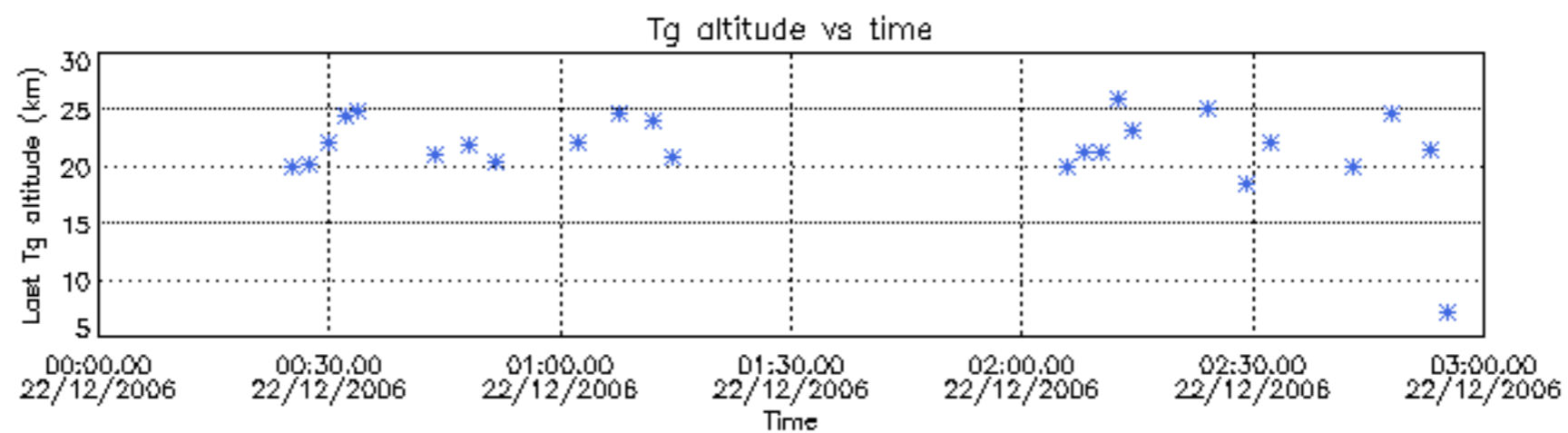
Percentage of saturation errors per profile



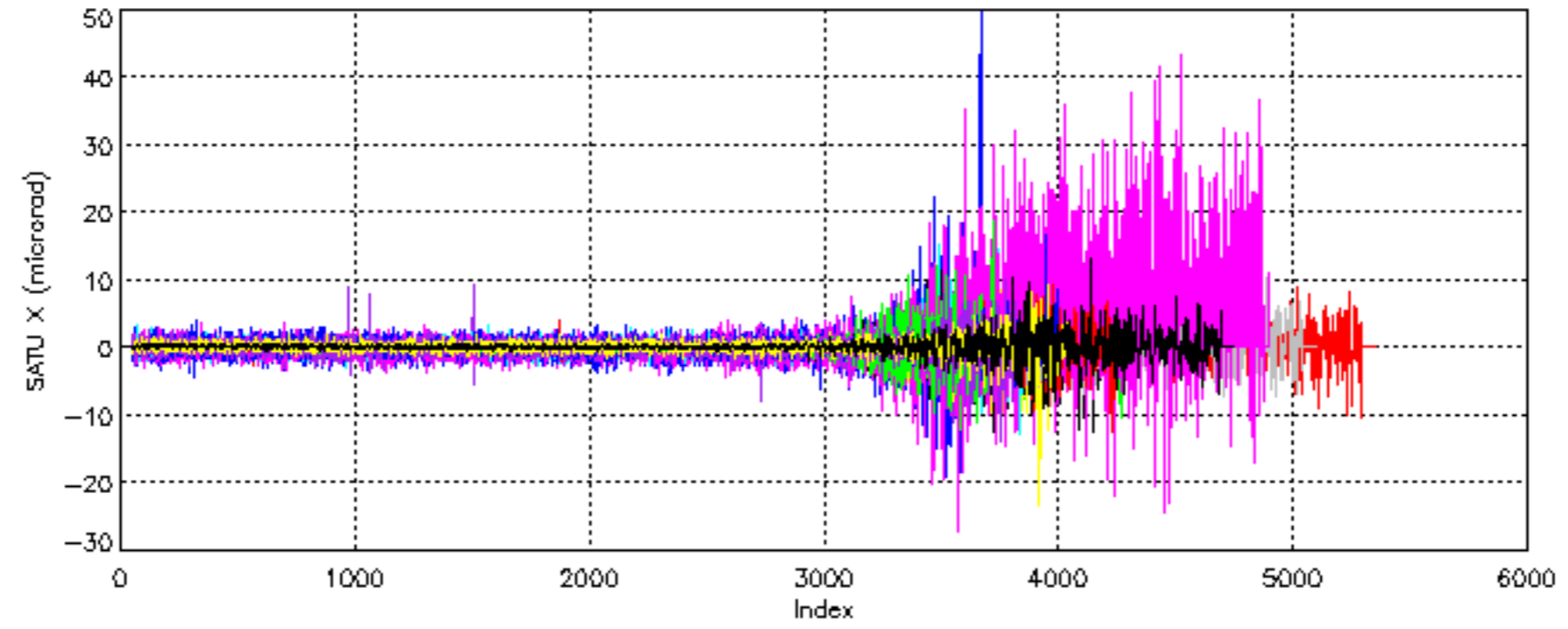
Tangent altitude at which the star is lost

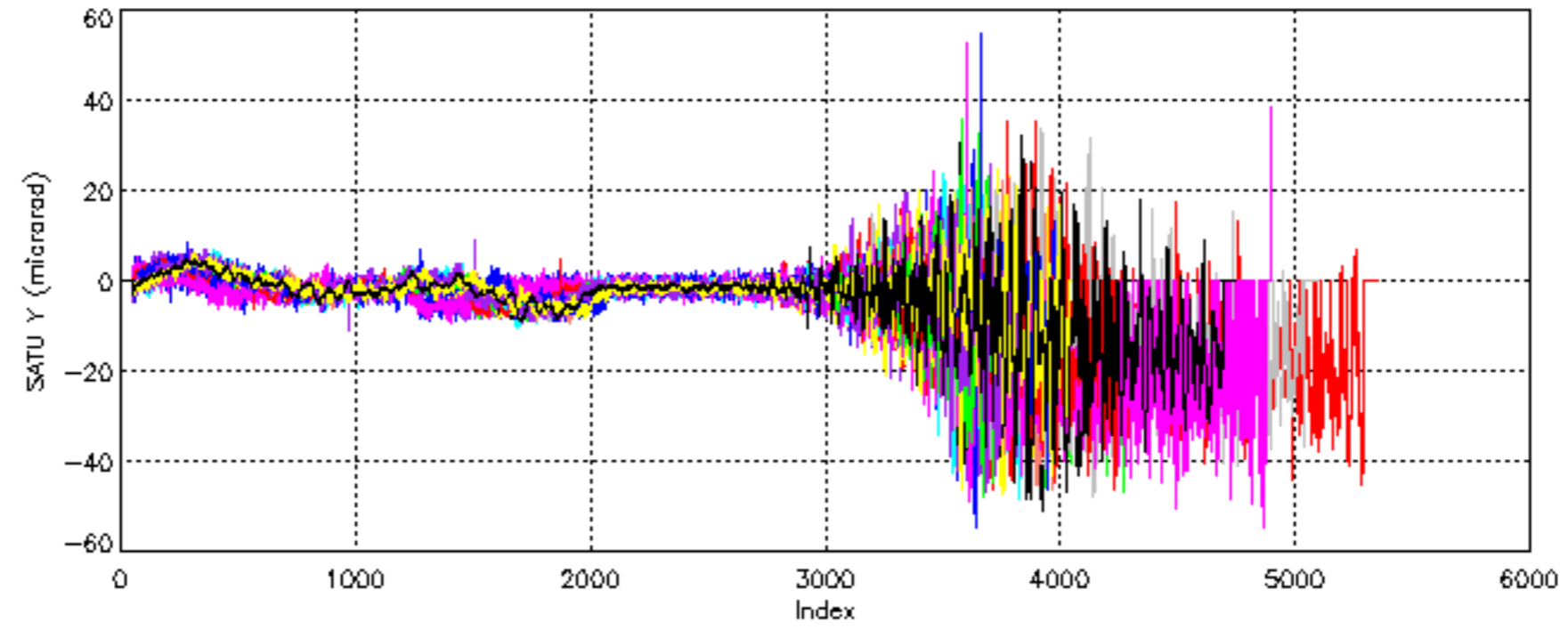


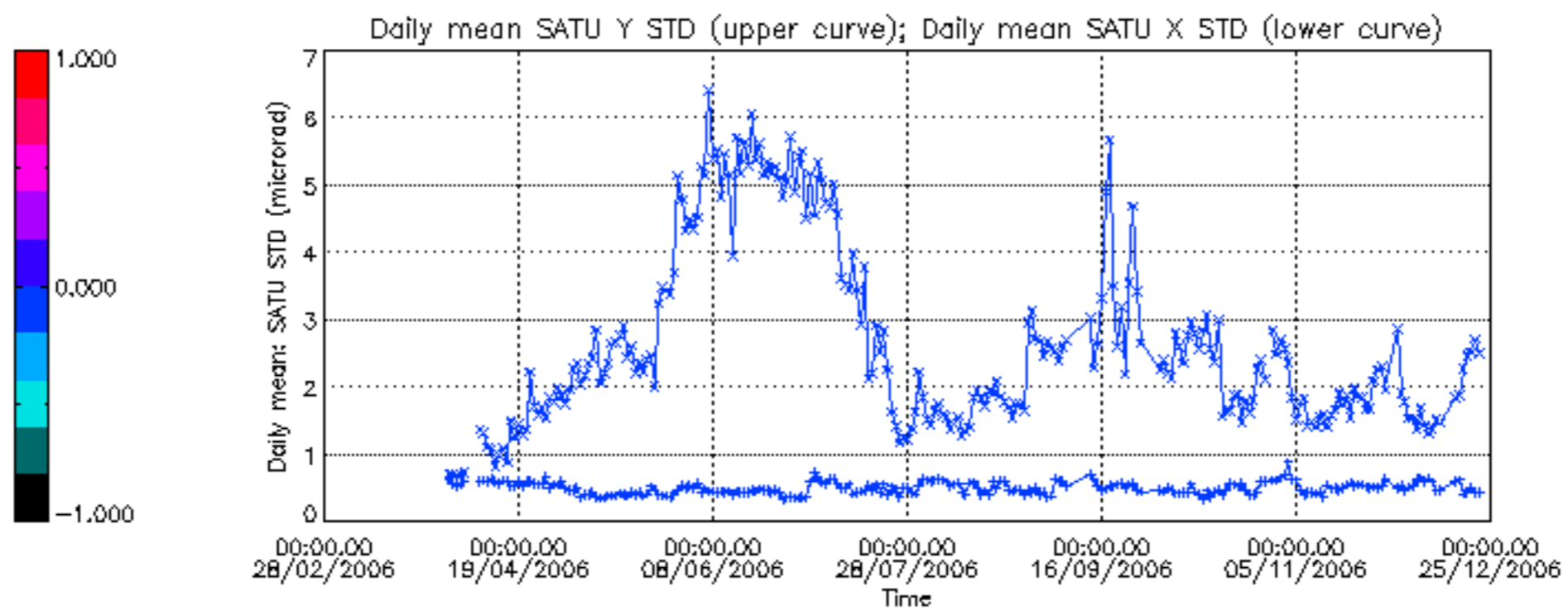
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20061201\_003559\_000055262053\_00245\_24848\_2533.N1

1; -622.8; 01-DEC-2006 00:35:59; Dark ; 40.0; 163; 7Del Crv ; 2.94; 11000;occ; 80; 0;24848  
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 3; -405.0; 01-DEC-2006 00:39:37; Dark ; 33.5; 123; Iot Cen ; 2.75; 10200;occ; 67; 0;24848  
 4; -139.2; 01-DEC-2006 00:44:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24848  
 5; -35.9; 01-DEC-2006 00:45:46; Dark ; 37.0; 26; Gam Cru ; 1.62; 2900;occ; 74; 0;24848  
 6; 95.8; 01-DEC-2006 00:47:58; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;24849  
 7; 213.6; 01-DEC-2006 00:49:55; Dark ; 30.5; 124; The Car ; 2.76; 30000;occ; 61; 0;24849  
 8; 380.6; 01-DEC-2006 00:52:42; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24849  
 9; 493.8; 01-DEC-2006 00:54:36; Dark ; 36.0; 41; Eps Car ; 1.86; 4100;occ; 72; 0;24849  
 10; 815.6; 01-DEC-2006 00:59:57; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;24849  
 11; 1669.1; 01-DEC-2006 01:14:11; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;24849  
 12; 1990.0; 01-DEC-2006 01:19:32; Dark ; 38.5; 94; 92Alp Cet ; 2.53; 3100;occ; 77; 0;24849  
 13; 2339.0; 01-DEC-2006 01:25:21; Bright; 31.5; 146; 25Eta Tau ; 2.87; 15200;occ; 63; 0;24849  
 14; 2481.3; 01-DEC-2006 01:27:43; Bright; 33.0; 150; 44Zet Per ; 2.89; 28000;occ; 66; 0;24849  
 15; 2615.1; 01-DEC-2006 01:29:57; Bright; 30.5; 79; 26Bet Per ; 2.31; 13100;occ; 61; 0;24849  
 16; 2748.4; 01-DEC-2006 01:32:10; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24849  
 17; 2827.8; 01-DEC-2006 01:33:30; Bright; 29.0; 160; 23Gam Per ; 2.93; 4700;occ; 58; 0;24849  
 18; 3431.7; 01-DEC-2006 01:43:33; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24849  
 19; 3711.4; 01-DEC-2006 01:48:13; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24849  
 20; 4025.1; 01-DEC-2006 01:53:27; Bright; 33.0; 32; 77Eps UMa ; 1.76; 11000;occ; 66; 0;24849  
 21; 4148.5; 01-DEC-2006 01:55:30; Bright; 29.0; 39; 85Eta UMa ; 1.85; 24000;occ; 58; 0;24849  
 22; 4322.5; 01-DEC-2006 01:58:24; Bright; 28.0; 180; 27Gam Boo ; 3.04; 8000;occ; 56; 0;24849  
 23; 4654.4; 01-DEC-2006 02:03:56; Bright; 28.5; 3; 16Alp Boo ; -0.05; 4250;occ; 57; 0;24849  
 24; 4869.3; 01-DEC-2006 02:07:31; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;24849

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20061201\_021314\_000042792053\_00246\_24849\_2534.N1

1; -823.6; 01-DEC-2006 02:13:14; Bright; 34.5; 15; 67Alp Vir ; 0.98; 28000;occ; 69; 0;24849  
 2; -408.5; 01-DEC-2006 02:20:09; Dark ; 32.0; 123; Iot Cen ; 2.75; 10200;occ; 64; 0;24849  
 3; -142.5; 01-DEC-2006 02:24:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24849  
 4; -39.6; 01-DEC-2006 02:26:18; Dark ; 38.5; 26; Gam Cru ; 1.62; 2900;occ; 77; 0;24849  
 5; 92.6; 01-DEC-2006 02:28:30; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;24850  
 6; 209.9; 01-DEC-2006 02:30:28; Dark ; 33.0; 124; The Car ; 2.76; 30000;occ; 66; 0;24850  
 7; 377.0; 01-DEC-2006 02:33:15; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24850  
 8; 490.2; 01-DEC-2006 02:35:08; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;24850  
 9; 812.3; 01-DEC-2006 02:40:30; Dark ; 39.0; 2; Alp Car ; -0.74; 7000;occ; 78; 0;24850  
 10; 1665.0; 01-DEC-2006 02:54:43; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;24850  
 11; 1986.3; 01-DEC-2006 03:00:04; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;24850  
 12; 2335.0; 01-DEC-2006 03:05:53; Bright; 33.0; 146; 25Eta Tau ; 2.87; 15200;occ; 66; 0;24850  
 13; 2477.2; 01-DEC-2006 03:08:15; Bright; 33.5; 150; 44Zet Per ; 2.89; 28000;occ; 67; 0;24850  
 14; 2611.0; 01-DEC-2006 03:10:29; Bright; 32.0; 79; 26Bet Per ; 2.31; 13100;occ; 64; 0;24850  
 15; 2744.3; 01-DEC-2006 03:12:42; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;24850  
 16; 2823.9; 01-DEC-2006 03:14:01; Bright; 29.5; 160; 23Gam Per ; 2.93; 4700;occ; 59; 0;24850  
 17; 3427.6; 01-DEC-2006 03:24:05; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;24850

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1; -2328.3; 01-DEC-2006 03:28:45; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;24850  
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 4; -1717.4; 01-DEC-2006 03:38:56; Bright; 29.5; 180; 27Gam Boo ; 3.04; 8000;occ; 59; 0;24850  
 5; -1385.0; 01-DEC-2006 03:44:29; Bright; 28.5; 3; 16Alp Boo ; -0.05; 4250;occ; 57; 0;24850  
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 9; -527.8; 01-DEC-2006 03:58:46; Dark ; 38.5; 106; 9Bet Crv ; 2.65; 5600;occ; 77; 0;24850  
 10; -408.3; 01-DEC-2006 04:00:45; Dark ; 35.0; 123; Iot Cen ; 2.75; 10200;occ; 70; 0;24850  
 11; -141.9; 01-DEC-2006 04:05:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24850  
 12; 93.6; 01-DEC-2006 04:09:07; Dark ; 36.0; 113; Mu Vel ; 2.69; 5000;occ; 72; 0;24851  
 13; 210.6; 01-DEC-2006 04:11:04; Dark ; 32.5; 124; The Car ; 2.76; 30000;occ; 65; 0;24851  
 14; 377.5; 01-DEC-2006 04:13:51; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24851  
 15; 491.1; 01-DEC-2006 04:15:45; Dark ; 37.0; 41; Eps Car ; 1.86; 4100;occ; 74; 0;24851  
 16; 812.8; 01-DEC-2006 04:21:06; Dark ; 40.5; 2; Alp Car ; -0.74; 7000;occ; 81; 0;24851  
 17; 1665.3; 01-DEC-2006 04:35:19; Dark ; 39.5; 165; 34Gam Eri ; 2.95; 3200;occ; 79; 0;24851  
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 11;-1890.3; 01-DEC-2006 15:20:15; Bright; 30.0; 39; 85Eta UMa ; 1.85; 24000;occ; 60; 0;24857  
 12;-1715.8; 01-DEC-2006 15:23:09; Bright; 28.0; 180; 27Gam Boo ; 3.04; 8000;occ; 56; 0;24857  
 13;-1383.4; 01-DEC-2006 15:28:42; Bright; 29.0; 3; 16Alp Boo ; -0.05; 4250;occ; 58; 0;24857  
 14;-1167.3; 01-DEC-2006 15:32:18; Bright; 34.0; 138; 47Eps Vir ; 2.83; 4700;occ; 68; 0;24857  
 15; -820.5; 01-DEC-2006 15:38:05; Bright; 49.0; 15; 67Alp Vir ; 0.98; 28000;occ; 98; 0;24857  
 16; -619.8; 01-DEC-2006 15:41:25; Dark ; 35.5; 163; 7Del Crv ; 2.94; 11000;occ; 71; 0;24857  
 17; -522.6; 01-DEC-2006 15:43:02; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;24857  
 18; -405.4; 01-DEC-2006 15:45:00; Dark ; 33.5; 123; Iot Cen ; 2.75; 10200;occ; 67; 0;24857  
 19; -137.6; 01-DEC-2006 15:49:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24857  
 20; -36.6; 01-DEC-2006 15:51:09; Dark ; 45.5; 26; Gam Cru ; 1.62; 2900;occ; 91; 0;24857  
 21; 98.8; 01-DEC-2006 15:53:24; Dark ; 36.0; 113; Mu Vel ; 2.69; 5000;occ; 72; 0;24858  
 22; 213.6; 01-DEC-2006 15:55:19; Dark ; 32.0; 124; The Car ; 2.76; 30000;occ; 64; 0;24858  
 23; 380.2; 01-DEC-2006 15:58:05; Dark ; 31.5; 29; Bet Car ; 1.67; 10200;occ; 63; 0;24858  
 24; 495.3; 01-DEC-2006 16:00:00; Dark ; 38.0; 41; Eps Car ; 1.86; 4100;occ; 76; 0;24858  
 25; 816.3; 01-DEC-2006 16:05:21; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;24858

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1;-4369.4; 01-DEC-2006 16:19:32; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 1;24858  
 2;-4049.0; 01-DEC-2006 16:24:52; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;24858  
 3;-3702.2; 01-DEC-2006 16:30:39; Bright; 32.5; 146; 25Eta Tau ; 2.87; 15200;occ; 65; 0;24858  
 4;-3560.4; 01-DEC-2006 16:33:01; Bright; 31.5; 150; 44Zet Per ; 2.89; 28000;occ; 63; 0;24858  
 5;-3425.3; 01-DEC-2006 16:35:16; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;24858  
 6;-3293.1; 01-DEC-2006 16:37:28; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24858  
 7;-3212.2; 01-DEC-2006 16:38:49; Bright; 30.5; 160; 23Gam Per ; 2.93; 4700;occ; 61; 0;24858  
 8;-2608.4; 01-DEC-2006 16:48:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;24858  
 9;-2328.3; 01-DEC-2006 16:53:33; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24858  
 10;-2015.7; 01-DEC-2006 16:58:45; Bright; 32.5; 32; 77Eps UMa ; 1.76; 11000;occ; 65; 0;24858  
 11;-1890.7; 01-DEC-2006 17:00:50; Bright; 30.0; 39; 85Eta UMa ; 1.85; 24000;occ; 60; 0;24858  
 12;-1716.1; 01-DEC-2006 17:03:45; Bright; 27.5; 180; 27Gam Boo ; 3.04; 8000;occ; 55; 0;24858  
 13;-1383.5; 01-DEC-2006 17:09:18; Bright; 27.5; 3; 16Alp Boo ; -0.05; 4250;occ; 55; 0;24858  
 14;-1167.1; 01-DEC-2006 17:12:54; Bright; 33.5; 138; 47Eps Vir ; 2.83; 4700;occ; 67; 0;24858  
 15; -820.2; 01-DEC-2006 17:18:41; Bright; 34.0; 15; 67Alp Vir ; 0.98; 28000;occ; 68; 0;24858  
 16; -619.6; 01-DEC-2006 17:22:02; Dark ; 38.0; 163; 7Del Crv ; 2.94; 11000;occ; 76; 0;24858  
 17; -522.4; 01-DEC-2006 17:23:39; Dark ; 40.0; 106; 9Bet Crv ; 2.65; 5600;occ; 80; 0;24858  
 18; -405.2; 01-DEC-2006 17:25:36; Dark ; 34.5; 123; Iot Cen ; 2.75; 10200;occ; 69; 0;24858  
 19; -137.0; 01-DEC-2006 17:30:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24858  
 20; -36.0; 01-DEC-2006 17:31:45; Dark ; 47.0; 26; Gam Cru ; 1.62; 2900;occ; 94; 0;24858  
 21; 99.7; 01-DEC-2006 17:34:01; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24859  
 22; 214.4; 01-DEC-2006 17:35:55; Dark ; 32.0; 124; The Car ; 2.76; 30000;occ; 64; 0;24859  
 23; 380.8; 01-DEC-2006 17:38:42; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24859  
 24; 496.0; 01-DEC-2006 17:40:37; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;24859  
 25; 817.0; 01-DEC-2006 17:45:58; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;24859

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1;-4369.9; 01-DEC-2006 18:00:07; Dark ; 39.0; 165; 34Gam Eri ; 2.95; 3200;occ; 78; 0;24859  
 2;-4048.3; 01-DEC-2006 18:05:29; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;24859  
 3;-3701.9; 01-DEC-2006 18:11:15; Bright; 31.0; 146; 25Eta Tau ; 2.87; 15200;occ; 62; 0;24859  
 4;-3560.2; 01-DEC-2006 18:13:37; Bright; 32.0; 150; 44Zet Per ; 2.89; 28000;occ; 64; 0;24859

5;-3424.8; 01-DEC-2006 18:15:52; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;24859  
6;-3293.1; 01-DEC-2006 18:18:04; Bright; 30.5; 175; 39Del Per ; 3.01; 19400;occ; 61; 0;24859  
7;-3212.4; 01-DEC-2006 18:19:25; Bright; 31.0; 160; 23Gam Per ; 2.93; 4700;occ; 62; 0;24859  
8;-2608.0; 01-DEC-2006 18:29:29; Bright; 29.0; 49; 1Alp UMi ; 1.99; 6300;occ; 58; 0;24859  
9;-2328.1; 01-DEC-2006 18:34:09; Bright; 46.0; 60; 7Bet UMi ; 2.08; 3950;occ; 92; 0;24859  
10;-2015.9; 01-DEC-2006 18:39:21; Bright; 31.5; 32; 77Eps UMa ; 1.76; 11000;occ; 63; 0;24859  
11;-1890.7; 01-DEC-2006 18:41:26; Bright; 29.0; 39; 85Eta UMa ; 1.85; 24000;occ; 58; 0;24859  
12;-1716.1; 01-DEC-2006 18:44:21; Bright; 29.5; 180; 27Gam Boo ; 3.04; 8000;occ; 59; 0;24859  
13;-1383.2; 01-DEC-2006 18:49:54; Bright; 28.5; 3; 16Alp Boo ; -0.05; 4250;occ; 57; 0;24859  
14;-1166.6; 01-DEC-2006 18:53:31; Bright; 32.0; 138; 47Eps Vir ; 2.83; 4700;occ; 64; 0;24859  
15; -819.9; 01-DEC-2006 18:59:17; Bright; 33.0; 15; 67Alp Vir ; 0.98; 28000;occ; 66; 0;24859  
16; -618.9; 01-DEC-2006 19:02:38; Dark ; 37.0; 163; 7Del Crv ; 2.94; 11000;occ; 74; 0;24859  
17; -521.8; 01-DEC-2006 19:04:15; Dark ; 39.5; 106; 9Bet Crv ; 2.65; 5600;occ; 79; 0;24859  
18; -404.9; 01-DEC-2006 19:06:12; Dark ; 32.0; 123; Iot Cen ; 2.75; 10200;occ; 64; 0;24859  
19; -136.4; 01-DEC-2006 19:10:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24859  
20; -35.7; 01-DEC-2006 19:12:21; Dark ; 37.0; 26; Gam Cru ; 1.62; 2900;occ; 74; 0;24859  
21; 100.4; 01-DEC-2006 19:14:37; Dark ; 36.0; 113; Mu Vel ; 2.69; 5000;occ; 72; 0;24860  
22; 214.7; 01-DEC-2006 19:16:32; Dark ; 32.5; 124; The Car ; 2.76; 30000;occ; 65; 0;24860  
23; 381.3; 01-DEC-2006 19:19:18; Dark ; 33.5; 29; Bet Car ; 1.67; 10200;occ; 67; 1;24860  
24; 496.4; 01-DEC-2006 19:21:13; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;24860  
25; 817.5; 01-DEC-2006 19:26:35; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;24860

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1;-4369.7; 01-DEC-2006 19:40:43; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;24860  
2;-4048.2; 01-DEC-2006 19:46:05; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;24860  
3;-3702.0; 01-DEC-2006 19:51:51; Bright; 33.0; 146; 25Eta Tau ; 2.87; 15200;occ; 66; 0;24860  
4;-3560.4; 01-DEC-2006 19:54:13; Bright; 31.0; 150; 44Zet Per ; 2.89; 28000;occ; 62; 0;24860  
5;-3424.8; 01-DEC-2006 19:56:28; Bright; 29.5; 79; 26Bet Per ; 2.31; 13100;occ; 59; 0;24860  
6;-3293.3; 01-DEC-2006 19:58:40; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24860  
7;-3212.3; 01-DEC-2006 20:00:01; Bright; 30.5; 160; 23Gam Per ; 2.93; 4700;occ; 61; 0;24860  
8;-2608.2; 01-DEC-2006 20:10:05; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;24860  
9;-2327.9; 01-DEC-2006 20:14:45; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24860  
10;-2016.1; 01-DEC-2006 20:19:57; Bright; 34.5; 32; 77Eps UMa ; 1.76; 11000;occ; 69; 0;24860  
11;-1890.6; 01-DEC-2006 20:22:02; Bright; 29.0; 39; 85Eta UMa ; 1.85; 24000;occ; 58; 0;24860  
12;-1715.9; 01-DEC-2006 20:24:57; Bright; 30.0; 180; 27Gam Boo ; 3.04; 8000;occ; 60; 0;24860  
13;-1383.0; 01-DEC-2006 20:30:30; Bright; 27.5; 3; 16Alp Boo ; -0.05; 4250;occ; 55; 0;24860  
14;-1166.4; 01-DEC-2006 20:34:07; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;24860  
15; -819.3; 01-DEC-2006 20:39:54; Bright; 33.0; 15; 67Alp Vir ; 0.98; 28000;occ; 66; 0;24860  
16; -618.2; 01-DEC-2006 20:43:15; Dark ; 36.5; 163; 7Del Crv ; 2.94; 11000;occ; 73; 0;24860  
17; -521.1; 01-DEC-2006 20:44:52; Dark ; 37.0; 106; 9Bet Crv ; 2.65; 5600;occ; 74; 0;24860  
18; -404.4; 01-DEC-2006 20:46:49; Dark ; 31.0; 123; Iot Cen ; 2.75; 10200;occ; 62; 0;24860  
19; -135.8; 01-DEC-2006 20:51:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24860  
20; -35.2; 01-DEC-2006 20:52:58; Dark ; 37.0; 26; Gam Cru ; 1.62; 2900;occ; 74; 0;24860  
21; 101.1; 01-DEC-2006 20:55:14; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24861  
22; 215.0; 01-DEC-2006 20:57:08; Dark ; 33.0; 124; The Car ; 2.76; 30000;occ; 66; 0;24861  
23; 381.5; 01-DEC-2006 20:59:55; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24861  
24; 496.8; 01-DEC-2006 21:01:50; Dark ; 35.5; 41; Eps Car ; 1.86; 4100;occ; 71; 0;24861  
25; 817.9; 01-DEC-2006 21:07:11; Dark ; 40.5; 2; Alp Car ; -0.74; 7000;occ; 81; 0;24861

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1;-2327.5; 02-DEC-2006 06:18:21; Bright; 30.0; 60; 7Bet UMi ; 2.08; 3950;occ; 60; 0;24866  
2;-2016.1; 02-DEC-2006 06:23:32; Bright; 30.5; 32; 77Eps UMa ; 1.76; 11000;occ; 61; 0;24866  
3;-1890.5; 02-DEC-2006 06:25:38; Bright; 31.5; 39; 85Eta UMa ; 1.85; 24000;occ; 63; 0;24866  
4;-1715.0; 02-DEC-2006 06:28:34; Bright; 29.5; 180; 27Gam Boo ; 3.04; 8000;occ; 59; 0;24866  
5;-1382.1; 02-DEC-2006 06:34:06; Bright; 29.0; 3; 16Alp Boo ; -0.05; 4250;occ; 58; 0;24866  
6;-1164.0; 02-DEC-2006 06:37:45; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;24866  
7; -816.8; 02-DEC-2006 06:43:32; Bright; 33.0; 15; 67Alp Vir ; 0.98; 28000;occ; 66; 0;24866  
8; -613.4; 02-DEC-2006 06:46:55; Dark ; 38.0; 163; 7Del Crv ; 2.94; 11000;occ; 76; 0;24866  
9; -516.8; 02-DEC-2006 06:48:32; Dark ; 39.5; 106; 9Bet Crv ; 2.65; 5600;occ; 79; 0;24866  
10; -402.2; 02-DEC-2006 06:50:26; Dark ; 33.0; 123; Iot Cen ; 2.75; 10200;occ; 66; 0;24866  
11; -132.0; 02-DEC-2006 06:54:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24866  
12; -33.1; 02-DEC-2006 06:56:35; Dark ; 43.5; 26; Gam Cru ; 1.62; 2900;occ; 87; 0;24866  
13; 105.9; 02-DEC-2006 06:58:54; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24867  
14; 218.1; 02-DEC-2006 07:00:47; Dark ; 32.5; 124; The Car ; 2.76; 30000;occ; 65; 0;24867  
15; 384.4; 02-DEC-2006 07:03:33; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24867  
16; 500.7; 02-DEC-2006 07:05:29; Dark ; 37.0; 41; Eps Car ; 1.86; 4100;occ; 74; 0;24867  
17; 821.3; 02-DEC-2006 07:10:50; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;24867

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1;-4367.8; 02-DEC-2006 07:24:56; Dark ; 38.0; 165; 34Gam Eri ; 2.95; 3200;occ; 76; 1;24867  
2;-4046.9; 02-DEC-2006 07:30:17; Dark ; 34.5; 94; 92Alp Cet ; 2.53; 3100;occ; 69; 0;24867



3;-3702.4; 02-DEC-2006 07:36:02; Bright; 30.5; 146; 25Eta Tau ; 2.87; 15200;occ; 61; 0;24867  
4;-3561.5; 02-DEC-2006 07:38:22; Bright; 31.0; 150; 44Zet Per ; 2.89; 28000;occ; 62; 0;24867  
5;-3424.9; 02-DEC-2006 07:40:39; Bright; 31.0; 79; 26Bet Per ; 2.31; 13100;occ; 62; 0;24867  
6;-3293.7; 02-DEC-2006 07:42:50; Bright; 29.0; 175; 39Del Per ; 3.01; 19400;occ; 58; 0;24867  
7;-3211.9; 02-DEC-2006 07:44:12; Bright; 31.0; 160; 23Gam Per ; 2.93; 4700;occ; 62; 0;24867  
8;-2607.5; 02-DEC-2006 07:54:16; Bright; 28.5; 49; 1Alp UMi ; 1.99; 6300;occ; 57; 0;24867  
9;-2327.1; 02-DEC-2006 07:58:57; Bright; 45.5; 60; 7Bet UMi ; 2.08; 3950;occ; 91; 0;24867  
10;-2016.0; 02-DEC-2006 08:04:08; Bright; 30.5; 32; 77Eps UMa ; 1.76; 11000;occ; 61; 0;24867  
11;-1889.9; 02-DEC-2006 08:06:14; Bright; 28.5; 39; 85Eta UMa ; 1.85; 24000;occ; 57; 0;24867  
12;-1714.1; 02-DEC-2006 08:09:10; Bright; 28.5; 180; 27Gam Boo ; 3.04; 8000;occ; 57; 0;24867  
13;-1381.2; 02-DEC-2006 08:14:43; Bright; 28.0; 3; 16Alp Boo ;-0.05; 4250;occ; 56; 0;24867  
14;-1163.0; 02-DEC-2006 08:18:21; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;24867  
15;-815.8; 02-DEC-2006 08:24:08; Bright; 49.0; 15; 67Alp Vir ; 0.98; 28000;occ; 98; 0;24867  
16;-612.6; 02-DEC-2006 08:27:31; Dark ; 38.5; 163; 7Del Crv ; 2.94; 11000;occ; 77; 0;24867  
17;-515.6; 02-DEC-2006 08:29:08; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;24867  
18;-401.1; 02-DEC-2006 08:31:03; Dark ; 33.0; 123; Iot Cen ; 2.75; 10200;occ; 66; 0;24867  
19;-130.9; 02-DEC-2006 08:35:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24867  
20;-32.2; 02-DEC-2006 08:37:12; Dark ; 37.5; 26; Gam Cru ; 1.62; 2900;occ; 75; 0;24867  
21; 107.4; 02-DEC-2006 08:39:31; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24868  
22; 219.0; 02-DEC-2006 08:41:23; Dark ; 31.5; 124; The Car ; 2.76; 30000;occ; 63; 0;24868  
23; 384.9; 02-DEC-2006 08:44:09; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24868  
24; 501.8; 02-DEC-2006 08:46:06; Dark ; 37.5; 41; Eps Car ; 1.86; 4100;occ; 75; 0;24868  
25; 822.2; 02-DEC-2006 08:51:26; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;24868  
26; 1667.7; 02-DEC-2006 09:05:32; Dark ; 37.5; 165; 34Gam Eri ; 2.95; 3200;occ; 75; 0;24868

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3;-3702.6; 02-DEC-2006 09:16:37; Bright; 31.5; 146; 25Eta Tau ; 2.87; 15200;occ; 63; 0;24868  
4;-3561.6; 02-DEC-2006 09:18:58; Bright; 31.5; 150; 44Zet Per ; 2.89; 28000;occ; 63; 0;24868  
5;-3424.9; 02-DEC-2006 09:21:15; Bright; 30.0; 79; 26Bet Per ; 2.31; 13100;occ; 60; 0;24868  
6;-3294.2; 02-DEC-2006 09:23:26; Bright; 30.5; 175; 39Del Per ; 3.01; 19400;occ; 61; 0;24868  
7;-3212.1; 02-DEC-2006 09:24:48; Bright; 30.0; 160; 23Gam Per ; 2.93; 4700;occ; 60; 0;24868  
8;-2607.5; 02-DEC-2006 09:34:52; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24868  
9;-2327.2; 02-DEC-2006 09:39:33; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24868  
10;-2016.2; 02-DEC-2006 09:44:44; Bright; 30.5; 32; 77Eps UMa ; 1.76; 11000;occ; 61; 0;24868  
11;-1890.0; 02-DEC-2006 09:46:50; Bright; 32.5; 39; 85Eta UMa ; 1.85; 24000;occ; 65; 0;24868  
12;-1714.0; 02-DEC-2006 09:49:46; Bright; 28.0; 180; 27Gam Boo ; 3.04; 8000;occ; 56; 0;24868  
13;-1381.2; 02-DEC-2006 09:55:19; Bright; 29.0; 3; 16Alp Boo ;-0.05; 4250;occ; 58; 0;24868  
14;-1162.9; 02-DEC-2006 09:58:57; Bright; 34.0; 138; 47Eps Vir ; 2.83; 4700;occ; 68; 0;24868  
15;-815.5; 02-DEC-2006 10:04:44; Bright; 36.5; 15; 67Alp Vir ; 0.98; 28000;occ; 73; 0;24868  
16;-611.5; 02-DEC-2006 10:08:08; Dark ; 35.0; 163; 7Del Crv ; 2.94; 11000;occ; 70; 0;24868  
17;-514.8; 02-DEC-2006 10:09:45; Dark ; 38.0; 106; 9Bet Crv ; 2.65; 5600;occ; 76; 0;24868  
18;-400.5; 02-DEC-2006 10:11:39; Dark ; 32.0; 123; Iot Cen ; 2.75; 10200;occ; 64; 0;24868  
19;-130.2; 02-DEC-2006 10:16:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24868  
20;-31.9; 02-DEC-2006 10:17:48; Dark ; 36.5; 26; Gam Cru ; 1.62; 2900;occ; 73; 0;24868  
21; 108.0; 02-DEC-2006 10:20:08; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;24869  
22; 219.5; 02-DEC-2006 10:21:59; Dark ; 31.5; 124; The Car ; 2.76; 30000;occ; 63; 0;24869  
23; 385.3; 02-DEC-2006 10:24:45; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24869  
24; 502.7; 02-DEC-2006 10:26:43; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;24869  
25; 822.7; 02-DEC-2006 10:32:02; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;24869  
26; 1667.9; 02-DEC-2006 10:46:08; Dark ; 38.0; 165; 34Gam Eri ; 2.95; 3200;occ; 76; 0;24869

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13;-1380.9; 02-DEC-2006 11:35:55; Bright; 29.0; 3; 16Alp Boo ;-0.05; 4250;occ; 58; 0;24869  
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 21; 108.9; 02-DEC-2006 12:00:45; Dark ; 39.5; 113; Mu Vel ; 2.69; 5000;occ; 79; 0;24870  
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 23; 385.7; 02-DEC-2006 12:05:21; Dark ; 33.5; 29; Bet Car ; 1.67; 10200;occ; 67; 0;24870  
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 25; 823.2; 02-DEC-2006 12:12:39; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;24870

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 9; -2327.0; 02-DEC-2006 13:00:45; Bright; 27.5; 60; 7Bet UMi ; 2.08; 3950;occ; 55; 0;24870  
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 22; 220.5; 02-DEC-2006 13:43:12; Dark ; 32.0; 124; The Car ; 2.76; 30000;occ; 64; 0;24871  
 23; 386.2; 02-DEC-2006 13:45:58; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24871  
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 25; 824.3; 02-DEC-2006 15:33:52; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;24872

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 7; 388.2; 02-DEC-2006 23:49:36; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24877  
 8; 507.0; 02-DEC-2006 23:51:35; Dark ; 36.0; 41; Eps Car ; 1.86; 4100;occ; 72; 0;24877  
 9; 826.1; 02-DEC-2006 23:56:54; Dark ; 40.5; 2; Alp Car ;-0.74; 7000;occ; 81; 0;24877  
 10; 1668.1; 03-DEC-2006 00:10:56; Dark ; 38.5; 165; 34Gam Eri ; 2.95; 3200;occ; 77; 0;24877  
 11; 1989.4; 03-DEC-2006 00:16:17; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;24877  
 12; 2331.3; 03-DEC-2006 00:21:59; Bright; 32.0; 146; 25Eta Tau ; 2.87; 15200;occ; 64; 0;24877  
 13; 2471.7; 03-DEC-2006 00:24:19; Bright; 31.0; 150; 44Zet Per ; 2.89; 28000;occ; 62; 0;24877  
 14; 2610.2; 03-DEC-2006 00:26:38; Bright; 29.5; 79; 26Bet Per ; 2.31; 13100;occ; 59; 0;24877  
 15; 2739.4; 03-DEC-2006 00:28:47; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24877  
 16; 2822.9; 03-DEC-2006 00:30:11; Bright; 29.0; 160; 23Gam Per ; 2.93; 4700;occ; 58; 0;24877  
 17; 3427.8; 03-DEC-2006 00:40:16; Bright; 27.5; 49; 1Alp UMi ; 1.99; 6300;occ; 55; 0;24877  
 18; 3708.7; 03-DEC-2006 00:44:56; Bright; 46.0; 60; 7Bet UMi ; 2.08; 3950;occ; 92; 0;24877  
 19; 4018.4; 03-DEC-2006 00:50:06; Bright; 33.5; 32; 77Eps UMa ; 1.76; 11000;occ; 67; 0;24877  
 20; 4145.7; 03-DEC-2006 00:52:13; Bright; 29.5; 39; 85Eta UMa ; 1.85; 24000;occ; 59; 0;24877  
 21; 4322.2; 03-DEC-2006 00:55:10; Bright; 28.5; 180; 27Gam Boo ; 3.04; 8000;occ; 57; 0;24877  
 22; 4656.0; 03-DEC-2006 01:00:44; Bright; 28.5; 3; 16Alp Boo ;-0.05; 4250;occ; 57; 0;24877  
 23; 4876.0; 03-DEC-2006 01:04:24; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;24877  
 24; 5223.8; 03-DEC-2006 01:10:12; Bright; 34.0; 15; 67Alp Vir ; 0.98; 28000;occ; 68; 0;24877

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1; -812.1; 03-DEC-2006 01:10:12; Bright; 34.5; 15; 67Alp Vir ; 0.98; 28000;occ; 69; 0;24877  
 2; -606.7; 03-DEC-2006 01:13:37; Dark ; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;24877  
 3; -509.3; 03-DEC-2006 01:15:14; Dark ; 38.0; 106; 9Bet Crv ; 2.65; 5600;occ; 76; 0;24877  
 4; -125.1; 03-DEC-2006 01:21:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24877  
 5; -28.9; 03-DEC-2006 01:23:15; Dark ; 47.0; 26; Gam Cru ; 1.62; 2900;occ; 94; 0;24877  
 6; 114.6; 03-DEC-2006 01:25:38; Dark ; 37.5; 113; Mu Vel ; 2.69; 5000;occ; 75; 0;24878  
 7; 223.2; 03-DEC-2006 01:27:27; Dark ; 32.0; 124; The Car ; 2.76; 30000;occ; 64; 0;24878

8; 388.5; 03-DEC-2006 01:30:12; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24878  
 9; 507.7; 03-DEC-2006 01:32:11; Dark ; 36.0; 41; Eps Car ; 1.86; 4100;occ; 72; 0;24878  
 10; 826.4; 03-DEC-2006 01:37:30; Dark ; 41.5; 2; Alp Car ; -0.74; 7000;occ; 83; 0;24878  
 11; 1668.2; 03-DEC-2006 01:51:32; Dark ; 38.5; 165; 34Gam Eri ; 2.95; 3200;occ; 77; 0;24878  
 12; 1989.6; 03-DEC-2006 01:56:53; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;24878  
 13; 2331.2; 03-DEC-2006 02:02:35; Bright; 31.0; 146; 25Eta Tau ; 2.87; 15200;occ; 62; 0;24878  
 14; 2471.6; 03-DEC-2006 02:04:55; Bright; 32.5; 150; 44Zet Per ; 2.89; 28000;occ; 65; 0;24878  
 15; 2610.3; 03-DEC-2006 02:07:14; Bright; 31.5; 79; 26Bet Per ; 2.31; 13100;occ; 63; 0;24878  
 16; 2739.0; 03-DEC-2006 02:09:23; Bright; 30.5; 175; 39Del Per ; 3.01; 19400;occ; 61; 0;24878  
 17; 2822.8; 03-DEC-2006 02:10:46; Bright; 29.0; 160; 23Gam Per ; 2.93; 4700;occ; 58; 0;24878  
 18; 3427.8; 03-DEC-2006 02:20:51; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;24878

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1;-2327.3; 03-DEC-2006 02:25:32; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24878  
 2;-2017.4; 03-DEC-2006 02:30:42; Bright; 33.0; 32; 77Eps UMa ; 1.76; 11000;occ; 66; 0;24878  
 3;-1890.1; 03-DEC-2006 02:32:49; Bright; 32.0; 39; 85Eta UMa ; 1.85; 24000;occ; 64; 0;24878  
 4;-1379.9; 03-DEC-2006 02:41:20; Bright; 28.5; 3; 16Alp Boo ; -0.05; 4250;occ; 57; 0;24878  
 5;-1159.4; 03-DEC-2006 02:45:00; Bright; 36.0; 138; 47Eps Vir ; 2.83; 4700;occ; 72; 0;24878  
 6; -811.3; 03-DEC-2006 02:50:48; Bright; 36.5; 15; 67Alp Vir ; 0.98; 28000;occ; 73; 0;24878  
 7; -606.0; 03-DEC-2006 02:54:13; Dark ; 34.0; 169; 46Gam Hya ; 2.99; 4700;occ; 68; 0;24878  
 8; -508.6; 03-DEC-2006 02:55:51; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;24878  
 9; -397.1; 03-DEC-2006 02:57:42; Dark ; 34.0; 123; Iot Cen ; 2.75; 10200;occ; 68; 0;24878  
 10; -124.4; 03-DEC-2006 03:02:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24878  
 11; -28.5; 03-DEC-2006 03:03:51; Dark ; 33.5; 26; Gam Cru ; 1.62; 2900;occ; 67; 0;24878

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1; 116.3; 03-DEC-2006 04:46:52; Dark ; 36.5; 113; Mu Vel ; 2.69; 5000;occ; 73; 0;24880  
 2; 430.4; 03-DEC-2006 04:52:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24880  
 3; 636.9; 03-DEC-2006 04:55:32; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;24880  
 4; 827.7; 03-DEC-2006 04:58:43; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;24880  
 5; 950.1; 03-DEC-2006 05:00:46; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;24880  
 6; 1210.8; 03-DEC-2006 05:05:06; Dark ; 39.5; 108; Alp Col ; 2.65; 15200;occ; 79; 0;24880  
 7; 1547.4; 03-DEC-2006 05:10:43; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;24880  
 8; 1757.9; 03-DEC-2006 05:14:13; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;24880  
 9; 2230.0; 03-DEC-2006 05:22:06; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;24880  
 10; 2331.1; 03-DEC-2006 05:23:47; Bright; 31.0; 146; 25Eta Tau ; 2.87; 15200;occ; 62; 0;24880  
 11; 2471.3; 03-DEC-2006 05:26:07; Bright; 31.0; 150; 44Zet Per ; 2.89; 28000;occ; 62; 0;24880  
 12; 2615.8; 03-DEC-2006 05:28:31; Bright; 31.0; 149; 45Eps Per ; 2.89; 30000;occ; 62; 0;24880  
 13; 2739.0; 03-DEC-2006 05:30:35; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24880  
 14; 2837.2; 03-DEC-2006 05:32:13; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;24880

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1;-2217.9; 03-DEC-2006 05:48:34; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;24880  
 2;-2122.1; 03-DEC-2006 05:50:09; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;24880  
 3;-2017.9; 03-DEC-2006 05:51:54; Bright; 33.5; 32; 77Eps UMa ; 1.76; 11000;occ; 67; 0;24880  
 4;-1679.7; 03-DEC-2006 05:57:32; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;24880  
 5;-1158.7; 03-DEC-2006 06:06:13; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;24880  
 6; -891.6; 03-DEC-2006 06:10:40; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;24880  
 7; -545.4; 03-DEC-2006 06:16:26; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;24880  
 8; -449.3; 03-DEC-2006 06:18:02; Dark ; 40.5; 171; 2Eps Crv ; 3.00; 4250;occ; 81; 0;24880  
 9; 117.1; 03-DEC-2006 06:27:29; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24881  
 10; 431.3; 03-DEC-2006 06:32:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24881  
 11; 637.8; 03-DEC-2006 06:36:09; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;24881  
 12; 828.3; 03-DEC-2006 06:39:20; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;24881  
 13; 950.9; 03-DEC-2006 06:41:22; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;24881  
 14; 1211.0; 03-DEC-2006 06:45:43; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;24881  
 15; 1547.4; 03-DEC-2006 06:51:19; Dark ; 45.0; 101; 11Alp Lep ; 2.58; 7000;occ; 90; 0;24881  
 16; 1758.0; 03-DEC-2006 06:54:49; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;24881  
 17; 2229.7; 03-DEC-2006 07:02:41; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;24881  
 18; 2330.9; 03-DEC-2006 07:04:22; Bright; 31.5; 146; 25Eta Tau ; 2.87; 15200;occ; 63; 0;24881  
 19; 2470.8; 03-DEC-2006 07:06:42; Bright; 32.0; 150; 44Zet Per ; 2.89; 28000;occ; 64; 0;24881  
 20; 2615.5; 03-DEC-2006 07:09:07; Bright; 29.5; 149; 45Eps Per ; 2.89; 30000;occ; 59; 0;24881  
 21; 2738.6; 03-DEC-2006 07:11:10; Bright; 29.0; 175; 39Del Per ; 3.01; 19400;occ; 58; 0;24881  
 22; 2836.5; 03-DEC-2006 07:12:48; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;24881  
 23; 3817.6; 03-DEC-2006 07:29:09; Bright; 20.0; 36; 50Alp UMa ; 1.80; 6300;occ; 40; 0;24881

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 2;-2122.3; 03-DEC-2006 07:30:45; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;24881  
 3;-2017.9; 03-DEC-2006 07:32:30; Bright; 33.0; 32; 77Eps UMa ; 1.76; 11000;occ; 66; 0;24881  
 4;-1679.8; 03-DEC-2006 07:38:08; Bright; 31.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 63; 0;24881  
 5;-1158.1; 03-DEC-2006 07:46:49; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;24881



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7; -544.7; 03-DEC-2006 07:57:03; Dark ; 39.5; 100; 4Gam Crv ; 2.58; 13100;occ; 79; 0;24881  
8; -448.6; 03-DEC-2006 07:58:39; Dark ; 40.0; 171; 2Eps Crv ; 3.00; 4250;occ; 80; 0;24881  
9; 117.9; 03-DEC-2006 08:08:05; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;24882  
10; 432.1; 03-DEC-2006 08:13:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24882  
11; 638.6; 03-DEC-2006 08:16:46; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;24882  
12; 828.6; 03-DEC-2006 08:19:56; Dark ; 40.0; 2; Alp Car ;-0.74; 7000;occ; 80; 0;24882  
13; 951.7; 03-DEC-2006 08:21:59; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;24882  
14; 1211.3; 03-DEC-2006 08:26:19; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;24882  
15; 1547.3; 03-DEC-2006 08:31:55; Dark ; 44.5; 101; 11Alp Lep ; 2.58; 7000;occ; 89; 0;24882

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2;-3805.9; 03-DEC-2006 08:43:17; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;24882  
3;-3704.6; 03-DEC-2006 08:44:58; Bright; 31.0; 146; 25Eta Tau ; 2.87; 15200;occ; 62; 0;24882  
4;-3564.5; 03-DEC-2006 08:47:18; Bright; 32.0; 150; 44Zet Per ; 2.89; 28000;occ; 64; 0;24882  
5;-3420.2; 03-DEC-2006 08:49:43; Bright; 31.5; 149; 45Eps Per ; 2.89; 30000;occ; 63; 0;24882  
6;-3296.9; 03-DEC-2006 08:51:46; Bright; 29.5; 175; 39Del Per ; 3.01; 19400;occ; 59; 0;24882  
7;-3199.4; 03-DEC-2006 08:53:23; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;24882  
8;-2218.0; 03-DEC-2006 09:09:45; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;24882  
9;-2122.2; 03-DEC-2006 09:11:21; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;24882  
10;-2017.5; 03-DEC-2006 09:13:05; Bright; 31.5; 32; 77Eps UMa ; 1.76; 11000;occ; 63; 0;24882  
11;-1679.2; 03-DEC-2006 09:18:44; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;24882  
12;-1156.9; 03-DEC-2006 09:27:26; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;24882  
13; -890.1; 03-DEC-2006 09:31:53; Bright; 40.5; 121; 29Gam Vir ; 2.74; 7200;occ; 81; 0;24882  
14; -543.3; 03-DEC-2006 09:37:40; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;24882  
15; -447.1; 03-DEC-2006 09:39:16; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;24882  
16; 119.3; 03-DEC-2006 09:48:42; Dark ; 38.5; 113; Mu Vel ; 2.69; 5000;occ; 77; 0;24883  
17; 433.4; 03-DEC-2006 09:53:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24883  
18; 639.9; 03-DEC-2006 09:57:23; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;24883  
19; 829.7; 03-DEC-2006 10:00:32; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;24883  
20; 952.9; 03-DEC-2006 10:02:36; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;24883  
21; 1212.4; 03-DEC-2006 10:06:55; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;24883  
22; 1547.9; 03-DEC-2006 10:12:31; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;24883

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1;-4277.5; 03-DEC-2006 10:16:01; Dark ; 58.0; 7; 19Bet Ori ; 0.10; 14000;occ; 116; 0;24883  
2;-3806.3; 03-DEC-2006 10:23:52; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;24883  
3;-3704.9; 03-DEC-2006 10:25:34; Bright; 31.0; 146; 25Eta Tau ; 2.87; 15200;occ; 62; 0;24883  
4;-3564.7; 03-DEC-2006 10:27:54; Bright; 32.5; 150; 44Zet Per ; 2.89; 28000;occ; 65; 0;24883  
5;-3420.2; 03-DEC-2006 10:30:18; Bright; 30.5; 149; 45Eps Per ; 2.89; 30000;occ; 61; 0;24883  
6;-3297.0; 03-DEC-2006 10:32:22; Bright; 30.0; 175; 39Del Per ; 3.01; 19400;occ; 60; 0;24883  
7;-3200.0; 03-DEC-2006 10:33:59; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;24883  
8;-2218.5; 03-DEC-2006 10:50:20; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;24883  
9;-2122.7; 03-DEC-2006 10:51:56; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;24883  
10;-2017.3; 03-DEC-2006 10:53:41; Bright; 33.0; 32; 77Eps UMa ; 1.76; 11000;occ; 66; 0;24883  
11;-1679.2; 03-DEC-2006 10:59:19; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;24883  
12;-1156.7; 03-DEC-2006 11:08:02; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;24883  
13; -889.5; 03-DEC-2006 11:12:29; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;24883  
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17; 434.3; 03-DEC-2006 11:34:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24884  
18; 640.8; 03-DEC-2006 11:37:59; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;24884  
19; 830.2; 03-DEC-2006 11:41:09; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;24884  
20; 953.8; 03-DEC-2006 11:43:13; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;24884  
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22; 1548.3; 03-DEC-2006 11:53:07; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;24884

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2; 1758.1; 03-DEC-2006 11:56:37; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;24884  
3; 2229.3; 03-DEC-2006 12:04:28; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;24884  
4; 2331.0; 03-DEC-2006 12:06:10; Bright; 32.5; 146; 25Eta Tau ; 2.87; 15200;occ; 65; 0;24884  
5; 2471.0; 03-DEC-2006 12:08:30; Bright; 32.0; 150; 44Zet Per ; 2.89; 28000;occ; 64; 0;24884  
6; 2615.4; 03-DEC-2006 12:10:54; Bright; 30.5; 149; 45Eps Per ; 2.89; 30000;occ; 61; 0;24884  
7; 2738.7; 03-DEC-2006 12:12:57; Bright; 29.5; 175; 39Del Per ; 3.01; 19400;occ; 59; 0;24884  
8; 2835.4; 03-DEC-2006 12:14:34; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;24884  
9; 3816.9; 03-DEC-2006 12:30:56; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;24884  
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11; 4018.4; 03-DEC-2006 12:34:17; Bright; 33.0; 32; 77Eps UMa ; 1.76; 11000;occ; 66; 0;24884

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 25; 7613.7; 22-DEC-2006 10:15:51; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;25154

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 2; 412.1; 29-DEC-2006 17:59:17; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0;25260
 3; 534.4; 29-DEC-2006 18:01:20; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25260
 4; 611.2; 29-DEC-2006 18:02:36; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;25260
 5; 711.3; 29-DEC-2006 18:04:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25260
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 2; 1564.5; 29-DEC-2006 18:18:30; Dark ; 44.0; 47; 2Bet CMA ; 1.98; 28000;occ; 88; 0;25260
 3; 1765.4; 29-DEC-2006 18:21:51; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25260
 4; 1879.8; 29-DEC-2006 18:23:45; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25260
 5; 2035.7; 29-DEC-2006 18:26:21; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;25260
 6; 2196.4; 29-DEC-2006 18:29:01; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;25260
 7; 2275.2; 29-DEC-2006 18:30:20; Dark ; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;25260
 8; 2401.0; 29-DEC-2006 18:32:26; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;25260
 9; 2577.3; 29-DEC-2006 18:35:22; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;25260
10; 2696.6; 29-DEC-2006 18:37:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;25260
11; 3422.9; 29-DEC-2006 18:49:28; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;25260
12; 3694.2; 29-DEC-2006 18:53:59; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;25260
13; 3920.1; 29-DEC-2006 18:57:45; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;25260
14; 4539.7; 29-DEC-2006 19:08:05; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25260
15; 4880.4; 29-DEC-2006 19:13:45; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25260
16; 5178.9; 29-DEC-2006 19:18:44; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;25260
17; 5333.4; 29-DEC-2006 19:21:19; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;25260
18; 5742.5; 29-DEC-2006 19:28:08; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;25260
19; 5828.7; 29-DEC-2006 19:29:34; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25260
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21; 6062.0; 29-DEC-2006 19:33:27; Dark ; 39.0; 10; Bet Cen ; 0.61; 28000;occ; 78; 0;25260
22; 6248.0; 29-DEC-2006 19:36:33; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;25260
23; 6448.5; 29-DEC-2006 19:39:54; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25260
24; 6570.7; 29-DEC-2006 19:41:56; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25260
25; 6647.5; 29-DEC-2006 19:43:13; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25260
26; 6747.9; 29-DEC-2006 19:44:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25260
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 9; 613.3; 30-DEC-2006 00:45:02; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;25264
10; 713.8; 30-DEC-2006 00:46:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25264
11; 970.1; 30-DEC-2006 00:50:59; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;25264
12; 1160.6; 30-DEC-2006 00:54:09; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;25264
13; 1332.0; 30-DEC-2006 00:57:01; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25264
14; 1564.9; 30-DEC-2006 01:00:54; Dark ; 44.0; 47; 2Bet CMA ; 1.98; 28000;occ; 88; 0;25264
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16; 1879.9; 30-DEC-2006 01:06:09; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;25264

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 19; 2274.6; 30-DEC-2006 01:12:43; Dark ; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;25264  
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 21; 2576.0; 30-DEC-2006 01:17:45; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;25264  
 22; 2696.0; 30-DEC-2006 01:19:45; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;25264  
 23; 3422.9; 30-DEC-2006 01:31:52; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;25264  
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 26; 4540.3; 30-DEC-2006 01:50:29; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25264  
 27; 4881.5; 30-DEC-2006 01:56:10; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;25264

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 9; 536.1; 30-DEC-2006 02:24:21; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25265  
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 14; 1332.4; 30-DEC-2006 02:37:37; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;25265  
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 16; 1766.0; 30-DEC-2006 02:44:51; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;25265  
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 18; 2035.2; 30-DEC-2006 02:49:20; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;25265  
 19; 2196.9; 30-DEC-2006 02:52:01; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;25265  
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 22; 2575.9; 30-DEC-2006 02:58:20; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;25265  
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 11; 214.6; 30-DEC-2006 03:59:35; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;25266  
 12; 415.3; 30-DEC-2006 04:02:56; Dark ; 36.5; 124; The Car ; 2.76; 30000;occ; 73; 0;25266  
 13; 536.6; 30-DEC-2006 04:04:57; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;25266  
 14; 614.5; 30-DEC-2006 04:06:15; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25266  
 15; 715.0; 30-DEC-2006 04:07:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25266  
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 17; 1161.6; 30-DEC-2006 04:15:22; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25266  
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 23; 2197.2; 30-DEC-2006 04:32:38; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;25266  
 24; 2400.4; 30-DEC-2006 04:36:01; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;25266  
 25; 2575.7; 30-DEC-2006 04:38:56; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;25266  
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 27; 3423.1; 30-DEC-2006 04:53:04; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;25266

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22; 2035.2; 30-DEC-2006 06:10:32; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;25267
23; 2197.3; 30-DEC-2006 06:13:14; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;25267
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26; 2695.8; 30-DEC-2006 06:21:32; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25267
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3; 1335.4; 30-DEC-2006 21:04:15; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25276
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14; 1566.9; 30-DEC-2006 22:48:43; Dark ; 45.5; 47; 2Bet CMA ; 1.98; 28000;occ; 91; 0;25277
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