

# GOMOS Daily Report 13-FEB-2011

## 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	16FEB2011 04:54:20
Data source version	GOMOS/5.01
Start time of products	13FEB2011 00:03:16
Stop time of products	13FEB2011 23:59:02
Store outputs in DB	Yes
Nb of level 1b prods	100
Nb of prods with errors	1

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

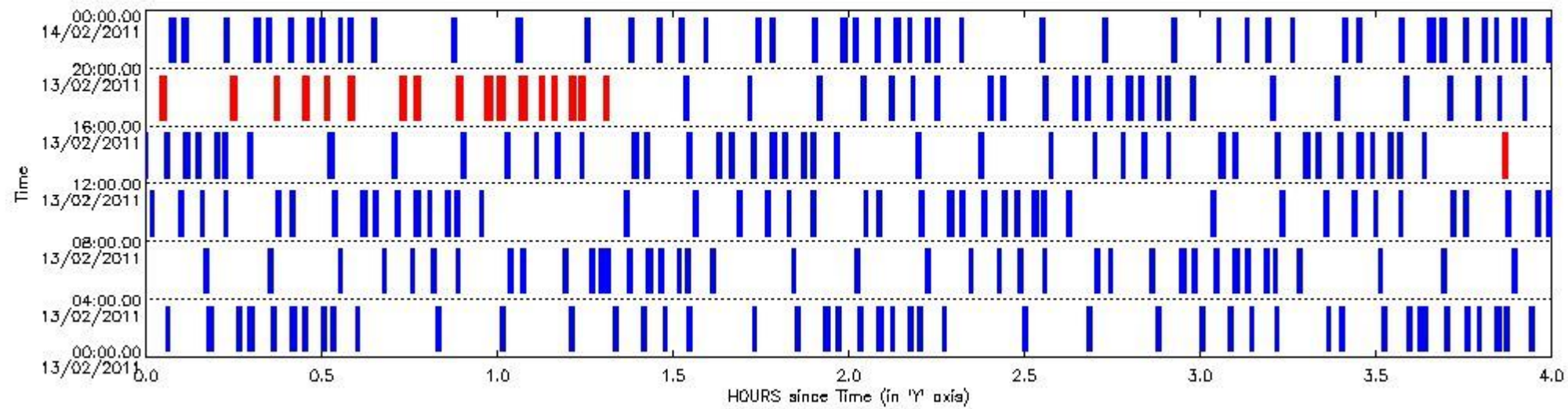
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
13-FEB-2011 15:51:30	30AlpHya	48	46836
13-FEB-2011 16:02:22	17EpsLeo	166	46836
13-FEB-2011 16:14:15	48BetUMa	82	46836
13-FEB-2011 16:21:46	7BetUMi	60	46836
13-FEB-2011 16:26:36	14EtaDra	119	46836
13-FEB-2011 16:30:18	23BetDra	130	46836
13-FEB-2011 16:34:28	3AlpLyr	5	46836
13-FEB-2011 16:43:23	55AlpOph	59	46836
13-FEB-2011 16:45:38	60BetOph	126	46836
13-FEB-2011 16:52:52	35EtaOph	86	46836
13-FEB-2011 16:57:49	21AlpSco	16	46836
13-FEB-2011 16:59:55	6PiSco	158	46836
13-FEB-2011 17:03:45	GamLup	131	46837
13-FEB-2011 17:07:01	DSA1027	0	46837
13-FEB-2011 17:09:11	BetCen	10	46837

13-FEB-2011 17:12:17	Alp1Cru	12	46837
13-FEB-2011 17:13:49	GamCen	64	46837
13-FEB-2011 17:18:02	MuVel	113	46837

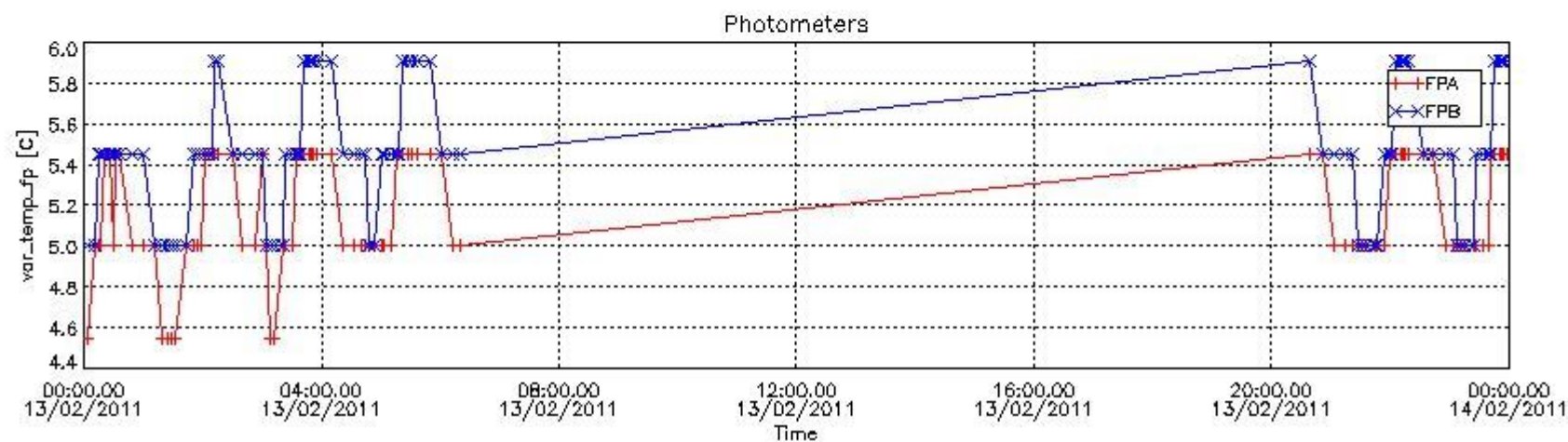
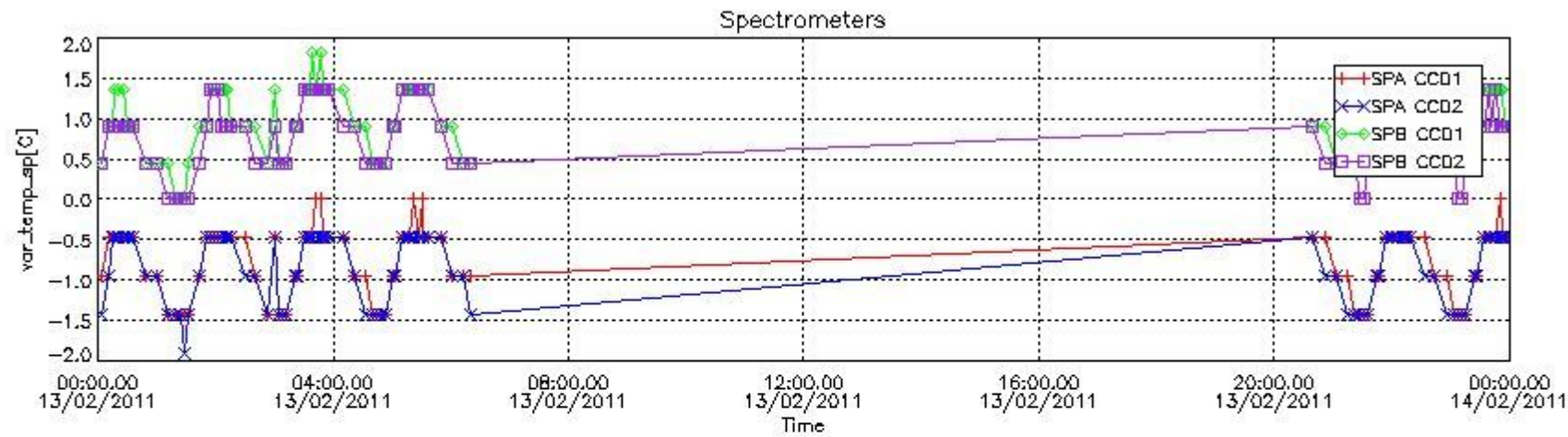
## 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110213_000316_000000463099_00260_46826_1380.N1	13-FEB-2011 00:03:16	Bright	46.000	126	60Bet Oph	2.7700	4250.0	92	46826	No
2	GOM_TRA_1PNPDE20110213_001026_000000523099_00260_46826_1473.N1	13-FEB-2011 00:10:26	Dark	51.500	86	35Eta Oph	2.4300	10200.	103	46826	No
3	GOM_TRA_1PNPDE20110213_001521_000000583099_00260_46826_1474.N1	13-FEB-2011 00:15:21	Dark	58.000	16	21Alp Sco	1.0200	3000.0	116	46826	No
4	GOM_TRA_1PNPDE20110213_001725_000000533099_00260_46826_1475.N1	13-FEB-2011 00:17:25	Dark	52.500	158	6Pi Sco	2.9060	28000.	105	46826	No
5	GOM_TRA_1PNPDE20110213_002117_000000473099_00261_46827_1476.N1	13-FEB-2011 00:21:17	Dark	47.000	131	Gam Lup	2.8000	26000.	94	46827	No
6	GOM_TRA_1PNPDE20110213_002647_000000433099_00261_46827_1477.N1	13-FEB-2011 00:26:47	Dark	42.500	10	Bet Cen	0.61000	28000.	85	46827	No
7	GOM_TRA_1PNPDE20110213_002954_000000493099_00261_46827_1478.N1	13-FEB-2011 00:29:54	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	46827	No
8	GOM_TRA_1PNPDE20110213_003124_000000493099_00261_46827_1479.N1	13-FEB-2011 00:31:24	Dark	49.000	64	Gam Cen	2.2000	10600.	98	46827	No
9	GOM_TRA_1PNPDE20110213_003539_000000473099_00261_46827_1480.N1	13-FEB-2011 00:35:39	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46827	No
10	GOM_TRA_1PNPDE20110213_004926_000000483099_00261_46827_1481.N1	13-FEB-2011 00:49:26	Straylight	48.000	48	30Alp Hya	1.9770	4100.0	96	46827	No
11	GOM_TRA_1PNPDE20110213_010023_000000483099_00261_46827_1482.N1	13-FEB-2011 01:00:23	Bright	48.000	166	17Eps Leo	2.9800	6000.0	96	46827	No
12	GOM_TRA_1PNPDE20110213_011218_000000473099_00261_46827_1483.N1	13-FEB-2011 01:12:18	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	46827	No
13	GOM_TRA_1PNPDE20110213_011945_000000393099_00261_46827_1484.N1	13-FEB-2011 01:19:45	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	46827	No
14	GOM_TRA_1PNPDE20110213_012435_000000433099_00261_46827_1485.N1	13-FEB-2011 01:24:35	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46827	No
15	GOM_TRA_1PNPDE20110213_012816_000000403099_00261_46827_1486.N1	13-FEB-2011 01:28:16	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	46827	No
16	GOM_TRA_1PNPDE20110213_013224_000000363099_00261_46827_1487.N1	13-FEB-2011 01:32:24	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	46827	No
17	GOM_TRA_1PNPDE20110213_014330_000000423099_00261_46827_1488.N1	13-FEB-2011 01:43:30	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	46827	No
18	GOM_TRA_1PNPDE20110213_015040_000000523099_00261_46827_1257.N1	13-FEB-2011 01:50:40	Dark	51.500	86	35Eta Oph	2.4300	10200.	103	46827	No
19	GOM_TRA_1PNPDE20110213_015536_000000603099_00261_46827_1258.N1	13-FEB-2011 01:55:36	Dark	59.500	16	21Alp Sco	1.0200	3000.0	119	46827	No
20	GOM_TRA_1PNPDE20110213_015740_000000543099_00261_46827_1259.N1	13-FEB-2011 01:57:40	Dark	53.500	158	6Pi Sco	2.9060	28000.	107	46827	No
21	GOM_TRA_1PNPDE20110213_020132_000000463099_00262_46828_1260.N1	13-FEB-2011 02:01:32	Dark	46.000	131	Gam Lup	2.8000	26000.	92	46828	No
22	GOM_TRA_1PNPDE20110213_020701_000000423099_00262_46828_1261.N1	13-FEB-2011 02:07:01	Dark	42.000	10	Bet Cen	0.61000	28000.	84	46828	No
23	GOM_TRA_1PNPDE20110213_021009_000000493099_00262_46828_1262.N1	13-FEB-2011 02:10:09	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	46828	No
24	GOM_TRA_1PNPDE20110213_021139_000000483099_00262_46828_1263.N1	13-FEB-2011 02:11:39	Dark	47.500	64	Gam Cen	2.2000	10600.	95	46828	No
25	GOM_TRA_1PNPDE20110213_021554_000000423099_00262_46828_1264.N1	13-FEB-2011 02:15:54	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	46828	No
26	GOM_TRA_1PNPDE20110213_022940_000000443099_00262_46828_1265.N1	13-FEB-2011 02:29:40	Straylight	44.000	48	30Alp Hya	1.9770	4100.0	88	46828	No
27	GOM_TRA_1PNPDE20110213_024037_000000463099_00262_46828_1266.N1	13-FEB-2011 02:40:37	Bright	45.500	166	17Eps Leo	2.9800	6000.0	91	46828	No
28	GOM_TRA_1PNPDE20110213_025231_000000463099_00262_46828_1267.N1	13-FEB-2011 02:52:31	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	46828	No
29	GOM_TRA_1PNPDE20110213_025959_000000413099_00262_46828_1311.N1	13-FEB-2011 02:59:59	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	46828	Yes
30	GOM_TRA_1PNPDE20110213_030449_000000443099_00262_46828_1312.N1	13-FEB-2011 03:04:49	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	46828	No
31	GOM_TRA_1PNPDE20110213_030830_000000403099_00262_46828_1313.N1	13-FEB-2011 03:08:30	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	46828	No
32	GOM_TRA_1PNPDE20110213_031238_000000383099_00262_46828_1314.N1	13-FEB-2011 03:12:38	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	46828	No
33	GOM_TRA_1PNPDE20110213_032130_000000453099_00262_46828_1315.N1	13-FEB-2011 03:21:30	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	46828	No
34	GOM_TRA_1PNPDE20110213_032345_000000503099_00262_46828_1316.N1	13-FEB-2011 03:23:45	Bright	49.500	126	60Bet Oph	2.7700	4250.0	99	46828	No
35	GOM_TRA_1PNPDE20110213_033055_000000493099_00262_46828_1317.N1	13-FEB-2011 03:30:55	Dark	48.500	86	35Eta Oph	2.4300	10200.	97	46828	No
36	GOM_TRA_1PNPDE20110213_033523_000000473099_00262_46828_1318.N1	13-FEB-2011 03:35:23	Dark	46.500	25	35Lam Sco	1.6200	28000.	93	46828	No
37	GOM_TRA_1PNPDE20110213_033708_000000283099_00262_46828_1319.N1	13-FEB-2011 03:37:08	Dark	28.000	80	7Del Sco	2.3160	30000.	56	46828	No
38	GOM_TRA_1PNPDE20110213_033755_000000543099_00262_46828_1320.N1	13-FEB-2011 03:37:55	Dark	53.500	158	6Pi Sco	2.9060	28000.	107	46828	No
39	GOM_TRA_1PNPDE20110213_034147_000000463099_00263_46829_1321.N1	13-FEB-2011 03:41:47	Dark	45.500	131	Gam Lup	2.8000	26000.	91	46829	No
40	GOM_TRA_1PNPDE20110213_034716_000000443099_00263_46829_1322.N1	13-FEB-2011 03:47:16	Dark	43.500	10	Bet Cen	0.61000	28000.	87	46829	No
41	GOM_TRA_1PNPDE20110213_035023_000000523099_00263_46829_1323.N1	13-FEB-2011 03:50:23	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	46829	No
42	GOM_TRA_1PNPDE20110213_035154_000000553099_00263_46829_1324.N1	13-FEB-2011 03:51:54	Dark	55.000	64	Gam Cen	2.2000	10600.	110	46829	No
43	GOM_TRA_1PNPDE20110213_035608_000000473099_00263_46829_1325.N1	13-FEB-2011 03:56:08	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	46829	No
44	GOM_TRA_1PNPDE20110213_040954_000000423099_00263_46829_1326.N1	13-FEB-2011 04:09:54	Straylight	41.500	48	30Alp Hya	1.9770	4100.0	83	46829	No
45	GOM_TRA_1PNPDE20110213_042050_000000463099_00263_46829_1327.N1	13-FEB-2011 04:20:50	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	46829	No
46	GOM_TRA_1PNPDE20110213_043245_000000453099_00263_46829_1328.N1	13-FEB-2011 04:32:45	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	46829	No
47	GOM_TRA_1PNPDE20110213_044013_000000373099_00263_46829_1329.N1	13-FEB-2011 04:40:13	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	46829	No
48	GOM_TRA_1PNPDE20110213_044503_000000433099_00263_46829_1348.N1	13-FEB-2011 04:45:03	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	46829	No
49	GOM_TRA_1PNPDE20110213_044844_000000393099_00263_46829_1349.N1	13-FEB-2011 04:48:44	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	46829	No
50	GOM_TRA_1PNPDE20110213_045252_000000373099_00263_46829_1350.N1	13-FEB-2011 04:52:52	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	46829	No
51	GOM_TRA_1PNPDE20110213_050145_000000473099_00263_46829_1351.N1	13-FEB-2011 05:01:45	Bright	46.500	59	55Alp Oph	2.0800	8900.0	93	46829	No

52	GOM_TRA_1PNPDE20110213_050359_000000473099_00263_46829_1352.N1	13-FEB-2011 05:03:59	Bright	47.000	126	60Bet Oph	2.7700	4250.0	94	46829	No
53	GOM_TRA_1PNPDE20110213_051110_000000533099_00263_46829_1353.N1	13-FEB-2011 05:11:10	Dark	53.000	86	35Eta Oph	2.4300	10200.	106	46829	No
54	GOM_TRA_1PNPDE20110213_051537_000000463099_00263_46829_1354.N1	13-FEB-2011 05:15:37	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	46829	No
55	GOM_TRA_1PNPDE20110213_051724_000000283099_00263_46829_1355.N1	13-FEB-2011 05:17:24	Dark	28.000	80	7Del Sco	2.3160	30000.	56	46829	No
56	GOM_TRA_1PNPDE20110213_051811_000000543099_00263_46829_1356.N1	13-FEB-2011 05:18:11	Dark	54.000	158	6Pi Sco	2.9060	28000.	108	46829	No
57	GOM_TRA_1PNPDE20110213_052203_000000473099_00264_46830_1357.N1	13-FEB-2011 05:22:03	Dark	47.000	131	Gam Lup	2.8000	26000.	94	46830	No
58	GOM_TRA_1PNPDE20110213_052731_000000443099_00264_46830_1358.N1	13-FEB-2011 05:27:31	Dark	43.500	10	Bet Cen	0.61000	28000.	87	46830	No
59	GOM_TRA_1PNPDE20110213_053038_000000423099_00264_46830_1359.N1	13-FEB-2011 05:30:38	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46830	No
60	GOM_TRA_1PNPDE20110213_053208_000000493099_00264_46830_1360.N1	13-FEB-2011 05:32:08	Dark	49.000	64	Gam Cen	2.2000	10600.	98	46830	No
61	GOM_TRA_1PNPDE20110213_053623_000000443099_00264_46830_1361.N1	13-FEB-2011 05:36:23	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	46830	No
62	GOM_TRA_1PNPDE20110213_055008_000000423099_00264_46830_1362.N1	13-FEB-2011 05:50:08	Straylight	41.500	48	30Alp Hya	1.9770	4100.0	83	46830	No
63	GOM_TRA_1PNPDE20110213_060104_000000463099_00264_46830_1363.N1	13-FEB-2011 06:01:04	Bright	46.000	166	17Eps Leo	2.9800	6000.0	92	46830	No
64	GOM_TRA_1PNPDE20110213_061258_000000453099_00264_46830_1364.N1	13-FEB-2011 06:12:58	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	46830	No
65	GOM_TRA_1PNPDE20110213_062027_000000373099_00264_46830_1365.N1	13-FEB-2011 06:20:27	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	46830	No
66	GOM_TRA_1PNPDE20110213_203833_000000483099_00273_46839_1511.N1	13-FEB-2011 20:38:33	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46839	No
67	GOM_TRA_1PNPDE20110213_205215_000000483099_00273_46839_1512.N1	13-FEB-2011 20:52:15	Straylight	47.500	48	30Alp Hya	1.9770	4100.0	95	46839	No
68	GOM_TRA_1PNPDE20110213_210305_000000623099_00273_46839_1513.N1	13-FEB-2011 21:03:05	Bright	61.500	166	17Eps Leo	2.9800	6000.0	123	46839	No
69	GOM_TRA_1PNPDE20110213_211458_000000453099_00273_46839_1514.N1	13-FEB-2011 21:14:58	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	46839	No
70	GOM_TRA_1PNPDE20110213_212230_000000373099_00273_46839_1515.N1	13-FEB-2011 21:22:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	46839	No
71	GOM_TRA_1PNPDE20110213_212720_000000423099_00273_46839_1516.N1	13-FEB-2011 21:27:20	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	46839	No
72	GOM_TRA_1PNPDE20110213_213103_000000413099_00273_46839_1517.N1	13-FEB-2011 21:31:03	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	46839	No
73	GOM_TRA_1PNPDE20110213_213513_000000403099_00273_46839_1518.N1	13-FEB-2011 21:35:13	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	46839	No
74	GOM_TRA_1PNPDE20110213_214409_000000523099_00273_46839_1519.N1	13-FEB-2011 21:44:09	Bright	51.500	59	55Alp Oph	2.0800	8900.0	103	46839	No
75	GOM_TRA_1PNPDE20110213_214625_000000513099_00273_46839_1520.N1	13-FEB-2011 21:46:25	Bright	50.500	126	60Bet Oph	2.7700	4250.0	101	46839	No
76	GOM_TRA_1PNPDE20110213_215339_000000483099_00273_46839_1523.N1	13-FEB-2011 21:53:39	Dark	47.500	86	35Eta Oph	2.4300	10200.	95	46839	No
77	GOM_TRA_1PNPDE20110213_215837_000000543099_00273_46839_1524.N1	13-FEB-2011 21:58:37	Dark	54.000	16	21Alp Sco	1.0200	3000.0	108	46839	No
78	GOM_TRA_1PNPDE20110213_220044_000000553099_00273_46839_1525.N1	13-FEB-2011 22:00:44	Dark	54.500	158	6Pi Sco	2.9060	28000.	109	46839	No
79	GOM_TRA_1PNPDE20110213_220433_000000473099_00274_46840_1526.N1	13-FEB-2011 22:04:33	Dark	47.000	131	Gam Lup	2.8000	26000.	94	46840	No
80	GOM_TRA_1PNPDE20110213_220957_000000463099_00274_46840_1527.N1	13-FEB-2011 22:09:57	Dark	46.000	10	Bet Cen	0.61000	28000.	92	46840	No
81	GOM_TRA_1PNPDE20110213_221303_000000423099_00274_46840_1528.N1	13-FEB-2011 22:13:03	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	46840	No
82	GOM_TRA_1PNPDE20110213_221436_000000483099_00274_46840_1529.N1	13-FEB-2011 22:14:36	Dark	47.500	64	Gam Cen	2.2000	10600.	95	46840	No
83	GOM_TRA_1PNPDE20110213_221847_000000453099_00274_46840_1530.N1	13-FEB-2011 22:18:47	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	46840	No
84	GOM_TRA_1PNPDE20110213_223229_000000493099_00274_46840_1531.N1	13-FEB-2011 22:32:29	Straylight	49.000	48	30Alp Hya	1.9770	4100.0	98	46840	No
85	GOM_TRA_1PNPDE20110213_224319_000000443099_00274_46840_1532.N1	13-FEB-2011 22:43:19	Bright	44.000	166	17Eps Leo	2.9800	6000.0	88	46840	No
86	GOM_TRA_1PNPDE20110213_225511_000000463099_00274_46840_1533.N1	13-FEB-2011 22:55:11	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	46840	No
87	GOM_TRA_1PNPDE20110213_230244_000000423099_00274_46840_1534.N1	13-FEB-2011 23:02:44	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	46840	No
88	GOM_TRA_1PNPDE20110213_230734_000000433099_00274_46840_1535.N1	13-FEB-2011 23:07:34	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	46840	No
89	GOM_TRA_1PNPDE20110213_231117_000000413099_00274_46840_1536.N1	13-FEB-2011 23:11:17	Bright	41.000	130	23Bet Dra	2.7990	5800.0	82	46840	No
90	GOM_TRA_1PNPDE20110213_231527_000000363099_00274_46840_1537.N1	13-FEB-2011 23:15:27	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	46840	No
91	GOM_TRA_1PNPDE20110213_232424_000000443099_00274_46840_1538.N1	13-FEB-2011 23:24:24	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	46840	No
92	GOM_TRA_1PNPDE20110213_232639_000000483099_00274_46840_1539.N1	13-FEB-2011 23:26:39	Bright	47.500	126	60Bet Oph	2.7700	4250.0	95	46840	No
93	GOM_TRA_1PNPDE20110213_233353_000000503099_00274_46840_1570.N1	13-FEB-2011 23:33:53	Dark	50.000	86	35Eta Oph	2.4300	10200.	100	46840	No
94	GOM_TRA_1PNPDE20110213_233852_000000703099_00274_46840_1571.N1	13-FEB-2011 23:38:52	Dark	69.500	16	21Alp Sco	1.0200	3000.0	139	46840	No
95	GOM_TRA_1PNPDE20110213_234059_000000533099_00274_46840_1572.N1	13-FEB-2011 23:40:59	Dark	52.500	158	6Pi Sco	2.9060	28000.	105	46840	No
96	GOM_TRA_1PNPDE20110213_234448_000000483099_00275_46841_1573.N1	13-FEB-2011 23:44:48	Dark	48.000	131	Gam Lup	2.8000	26000.	96	46841	No
97	GOM_TRA_1PNPDE20110213_235012_000000423099_00275_46841_1574.N1	13-FEB-2011 23:50:12	Dark	41.500	10	Bet Cen	0.61000	28000.	83	46841	No
98	GOM_TRA_1PNPDE20110213_235317_000000493099_00275_46841_1575.N1	13-FEB-2011 23:53:17	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	46841	No
99	GOM_TRA_1PNPDE20110213_235451_000000463099_00275_46841_1576.N1	13-FEB-2011 23:54:51	Dark	46.000	64	Gam Cen	2.2000	10600.	92	46841	No
100	GOM_TRA_1PNPDE20110213_235902_000000483099_00275_46841_1577.N1	13-FEB-2011 23:59:02	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46841	No

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





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

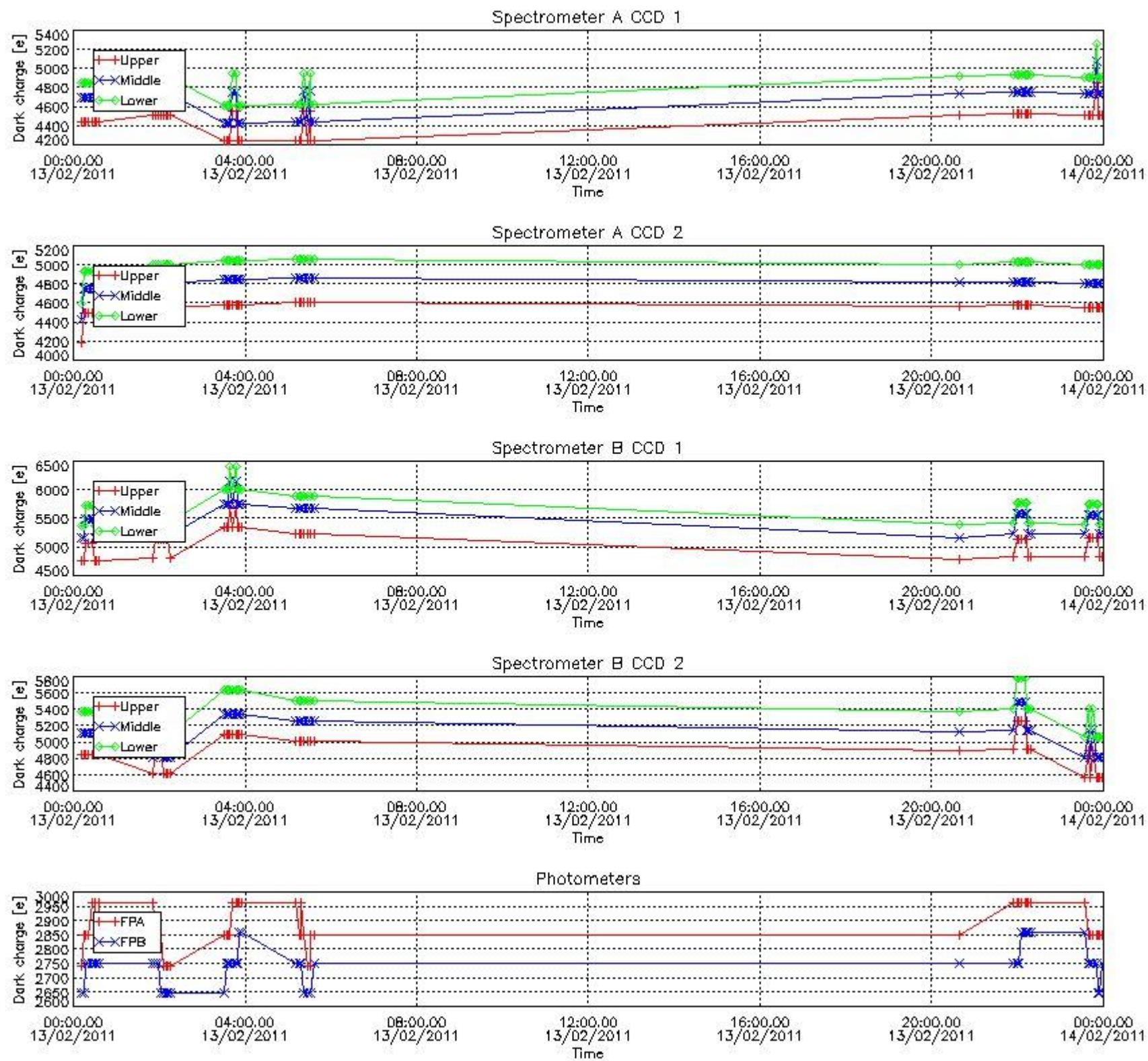
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110213_203833_000000483099_00273_46839_1511.N1	DC map used
GOM_TRA_1PNPDE20110213_205215_000000483099_00273_46839_1512.N1	DC map used
GOM_TRA_1PNPDE20110213_210305_000000623099_00273_46839_1513.N1	DC map used
GOM_TRA_1PNPDE20110213_211458_000000453099_00273_46839_1514.N1	DC map used
GOM_TRA_1PNPDE20110213_212230_000000373099_00273_46839_1515.N1	DC map used
GOM_TRA_1PNPDE20110213_212720_000000423099_00273_46839_1516.N1	DC map used
GOM_TRA_1PNPDE20110213_213103_000000413099_00273_46839_1517.N1	DC map used
GOM_TRA_1PNPDE20110213_213513_000000403099_00273_46839_1518.N1	DC map used
GOM_TRA_1PNPDE20110213_214409_000000523099_00273_46839_1519.N1	DC map used
GOM_TRA_1PNPDE20110213_214625_000000513099_00273_46839_1520.N1	DC map used

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



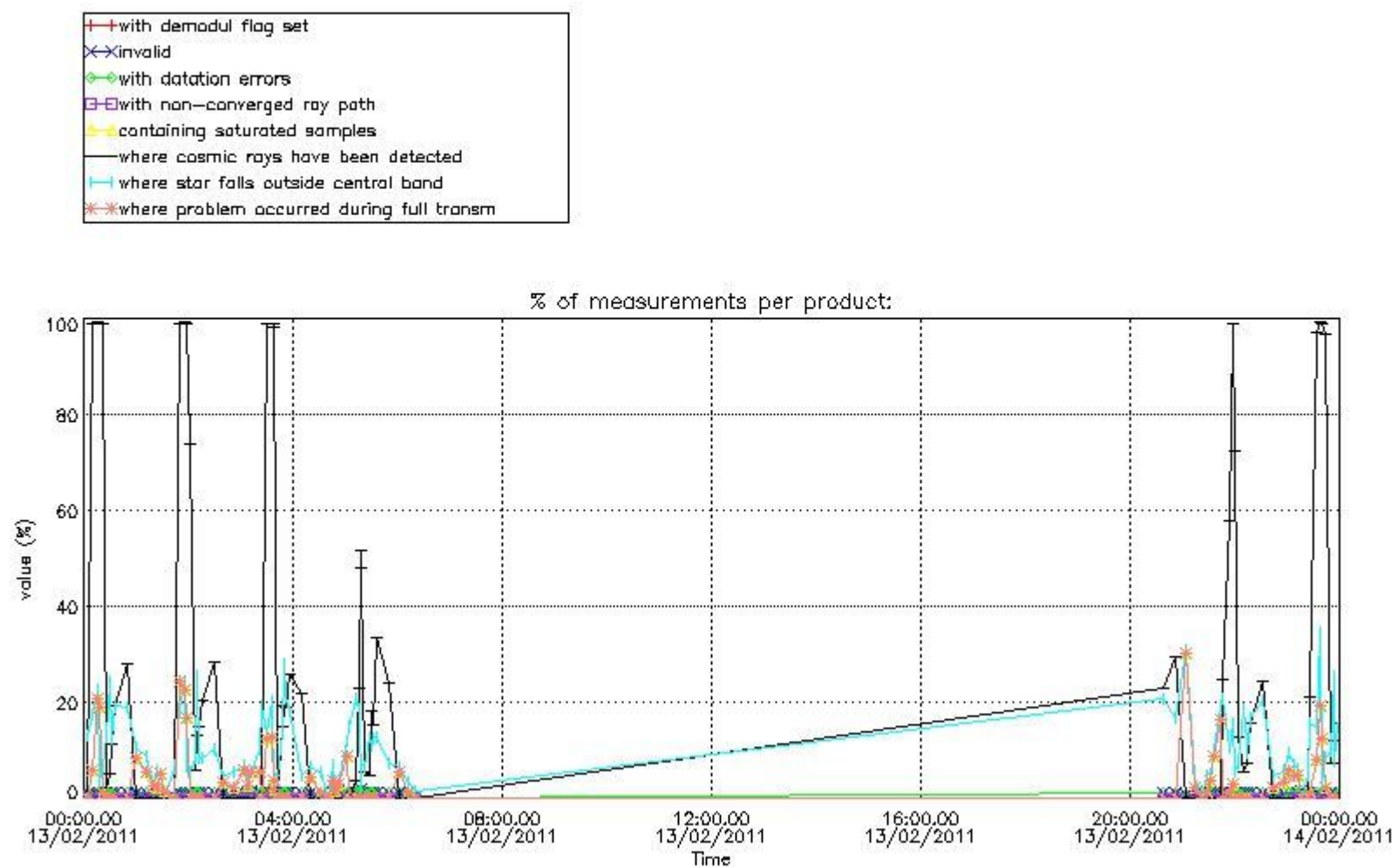
## 5. Demodulation flag and quality information monitoring

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:

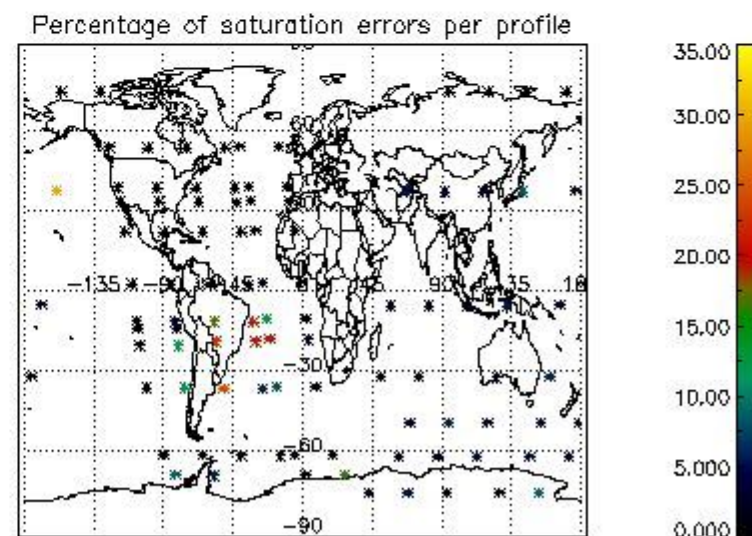
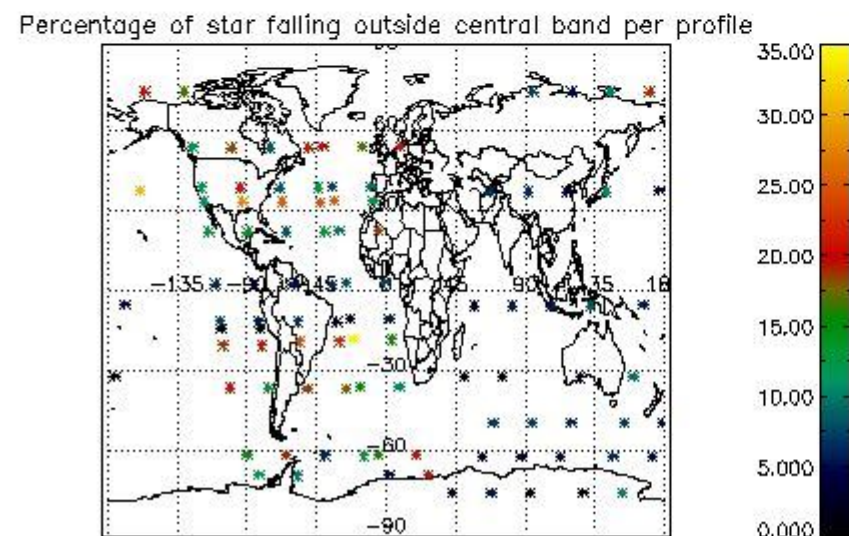
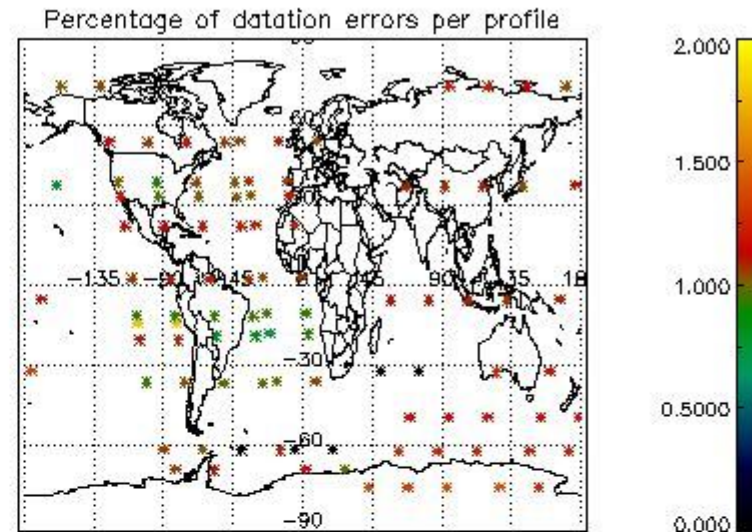
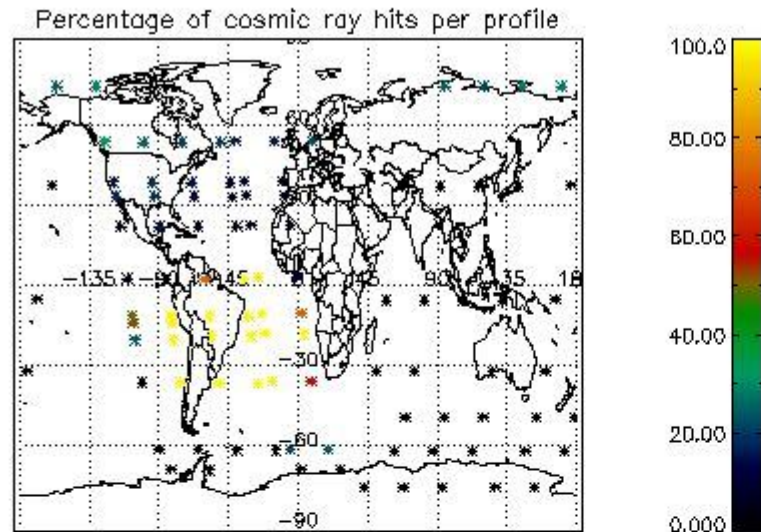
At least one measurement with demodulation flag set:	46.4646 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

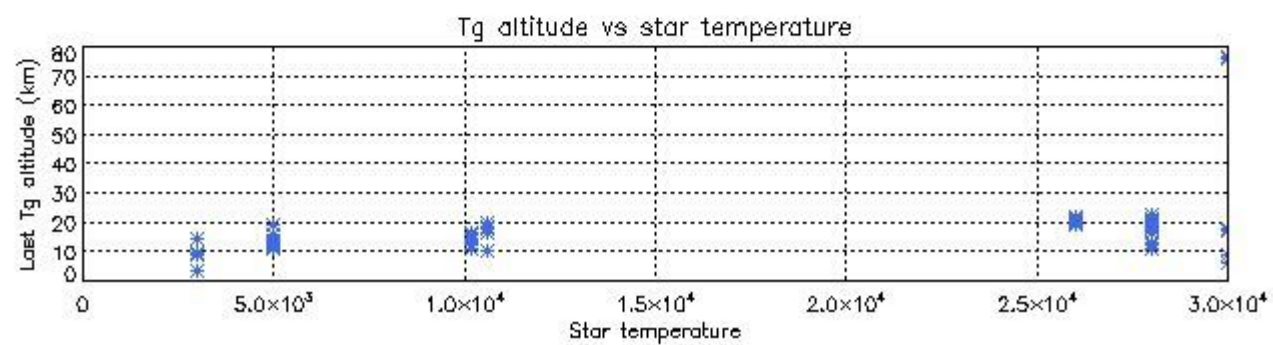
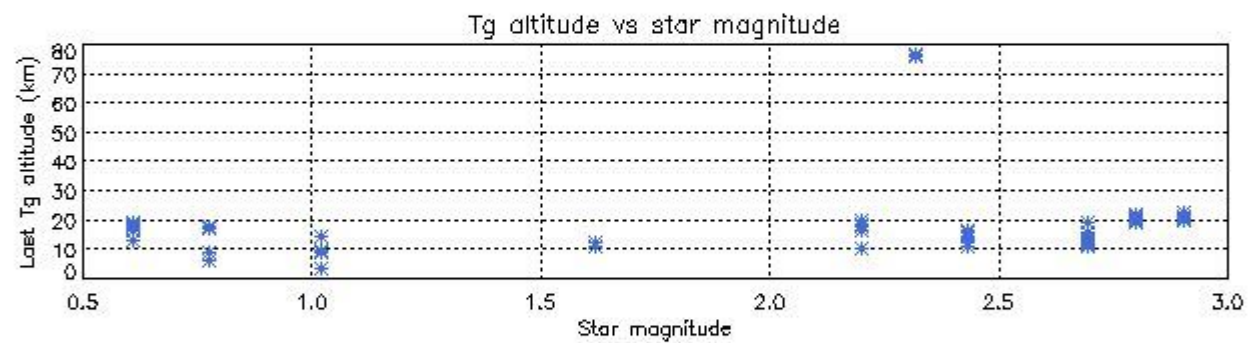
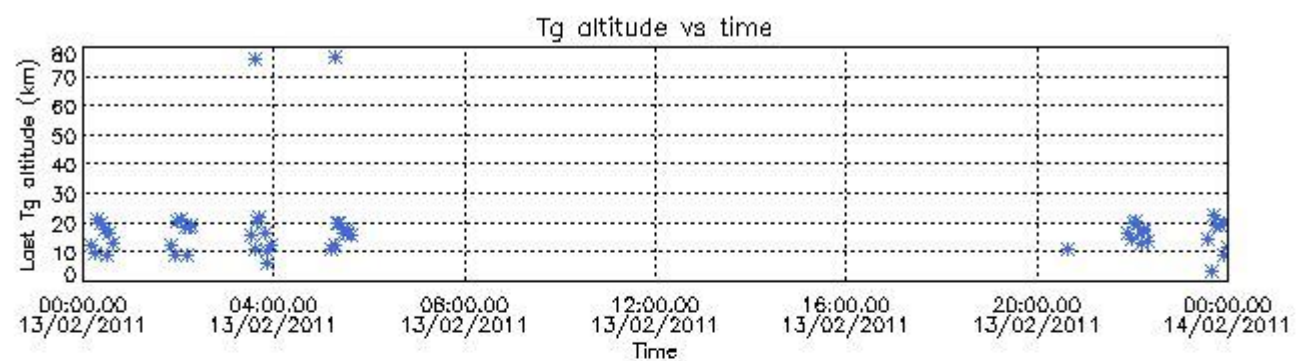
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.740	19.981	NaN
St. deviation:	12.764	4.6226	NaN
Maximum:	76.262	28.463	NaN
Minimum:	3.2373	6.0549	NaN
Number of data:	51.000	42.000	NaN

### 6.2 Plot for DARK limb products

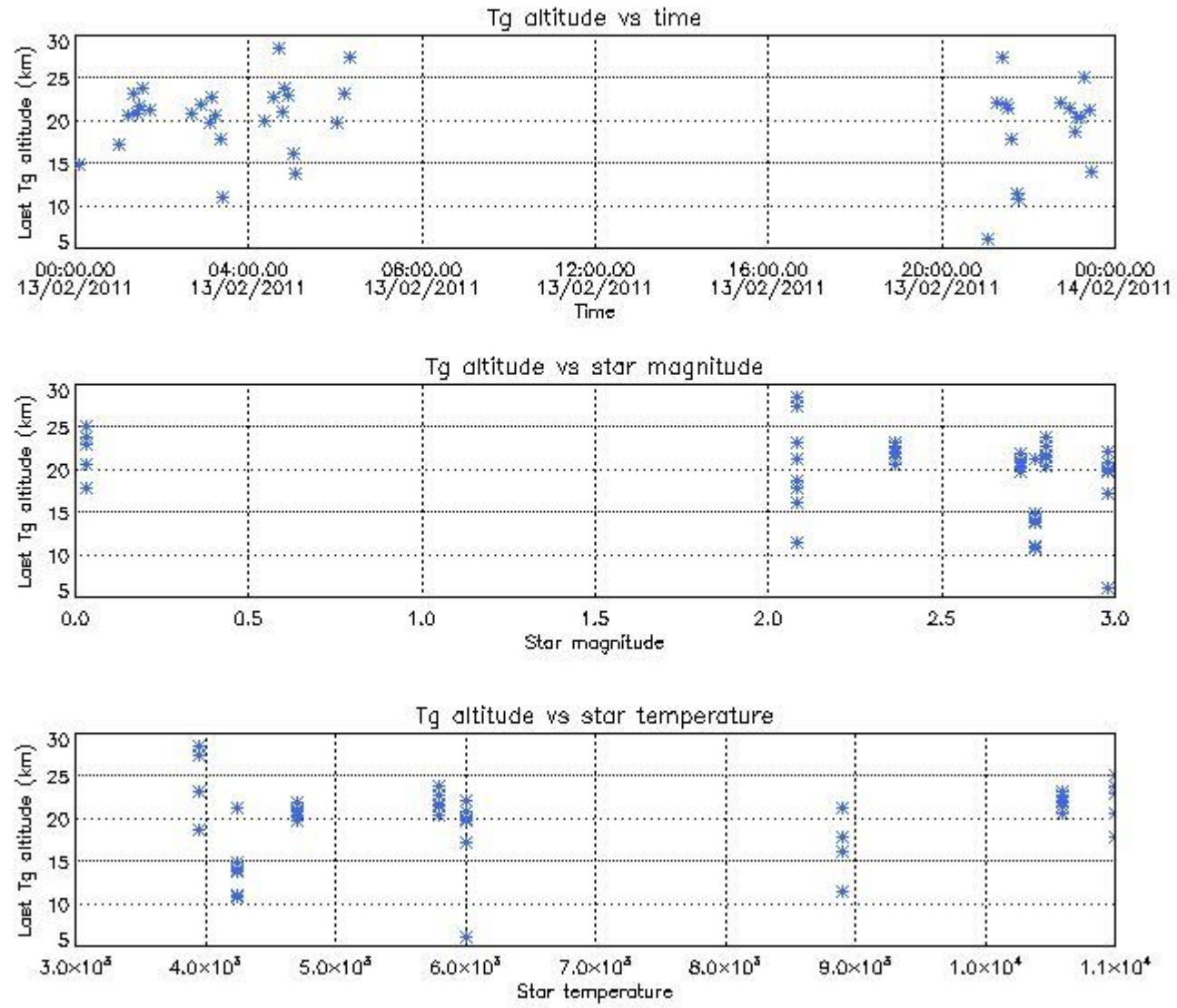


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

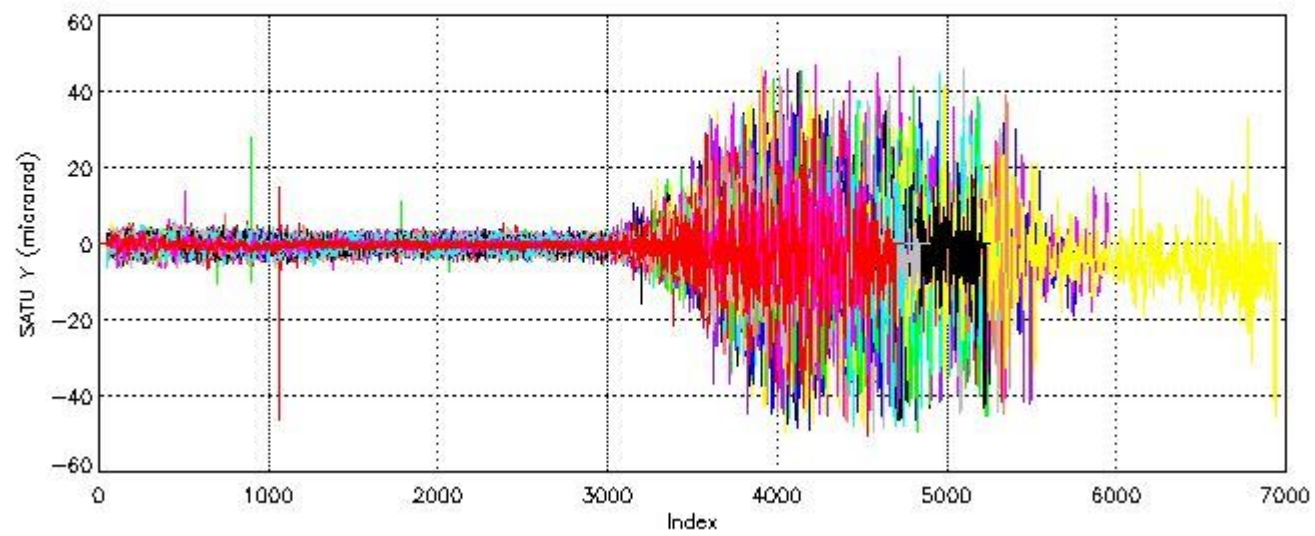
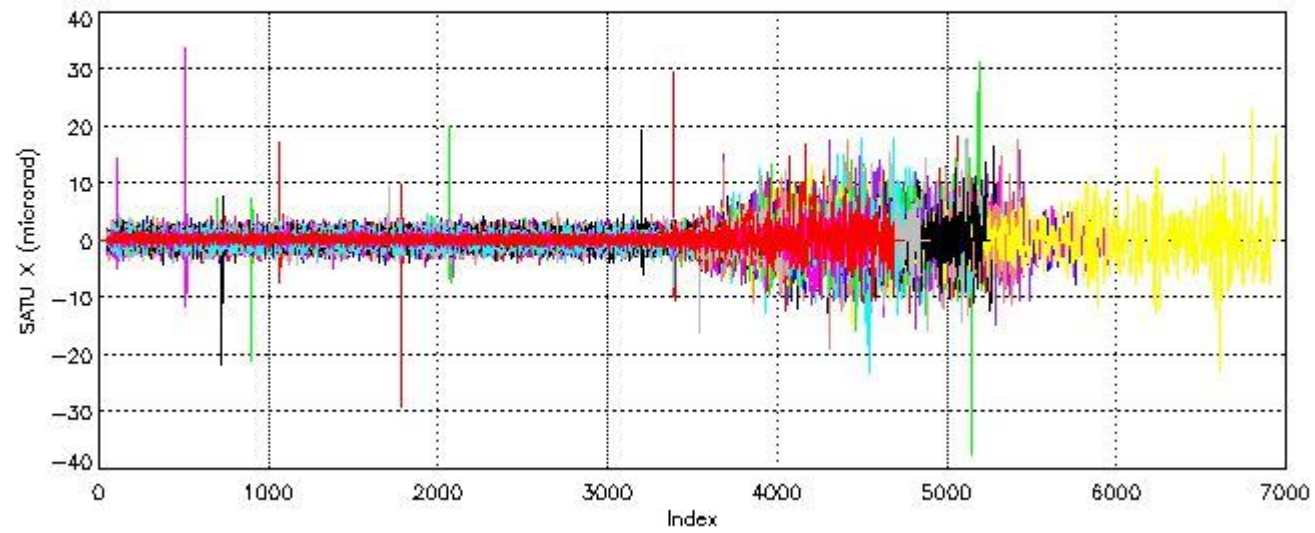


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20681	-0.36621	0.17855	-0.41319
St. deviation:	0.64540	1.2771	0.64440	1.0292
Maximum:	33.800	28.100	5.1000	6.0000
Minimum:	-21.700	-46.100	-3.6000	-6.2000



Number of data:	57150.	57150.	42150.	42150.
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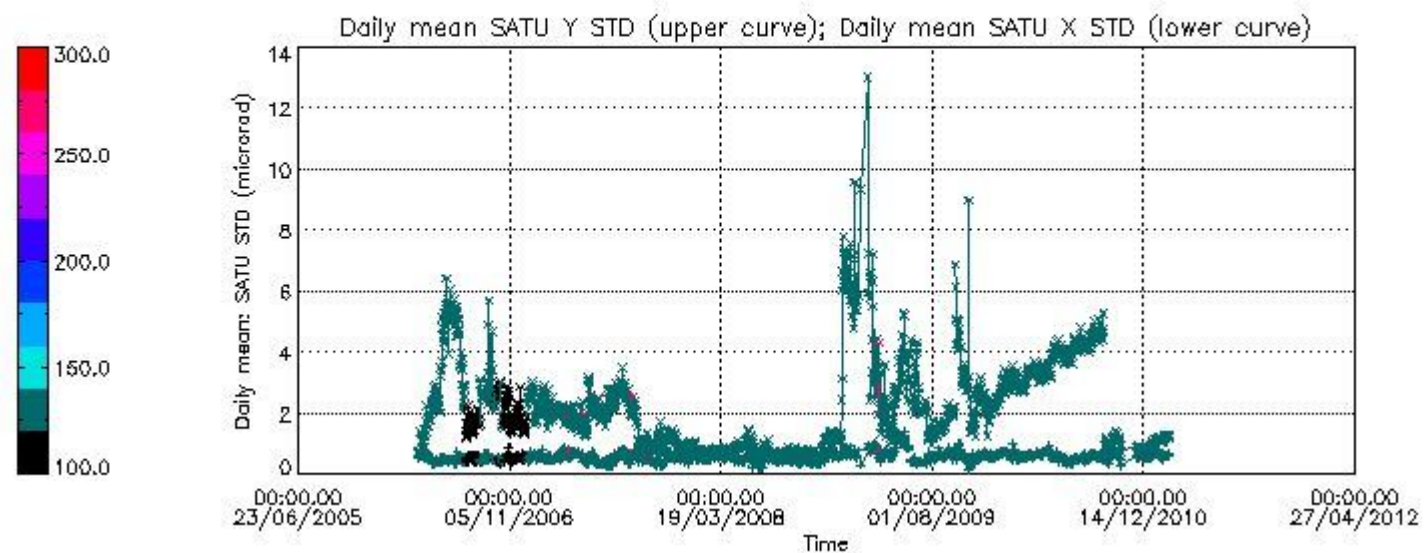
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

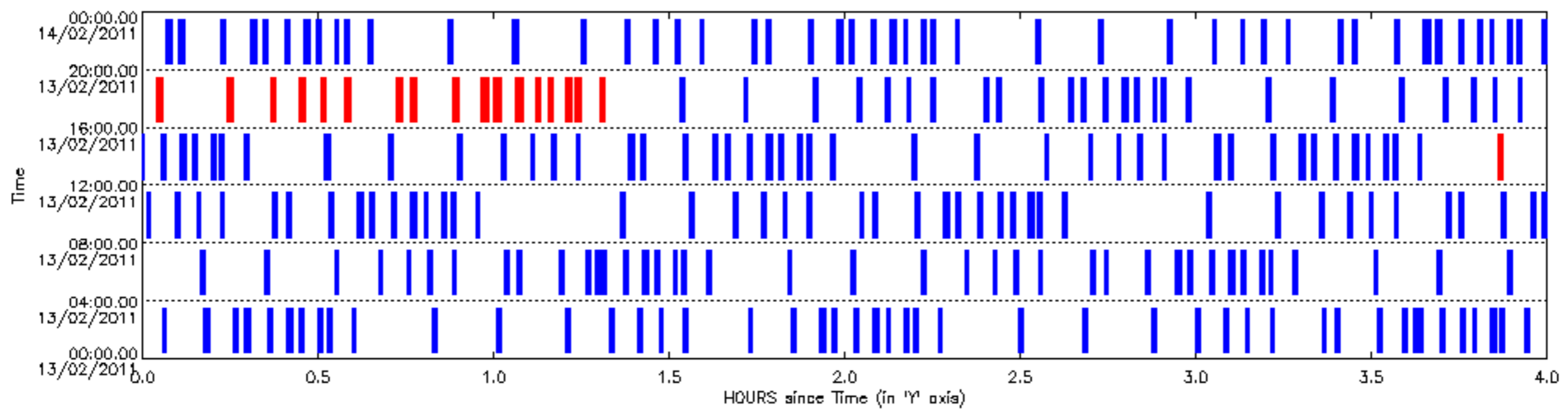
Lower curve: STD of SATU X axis

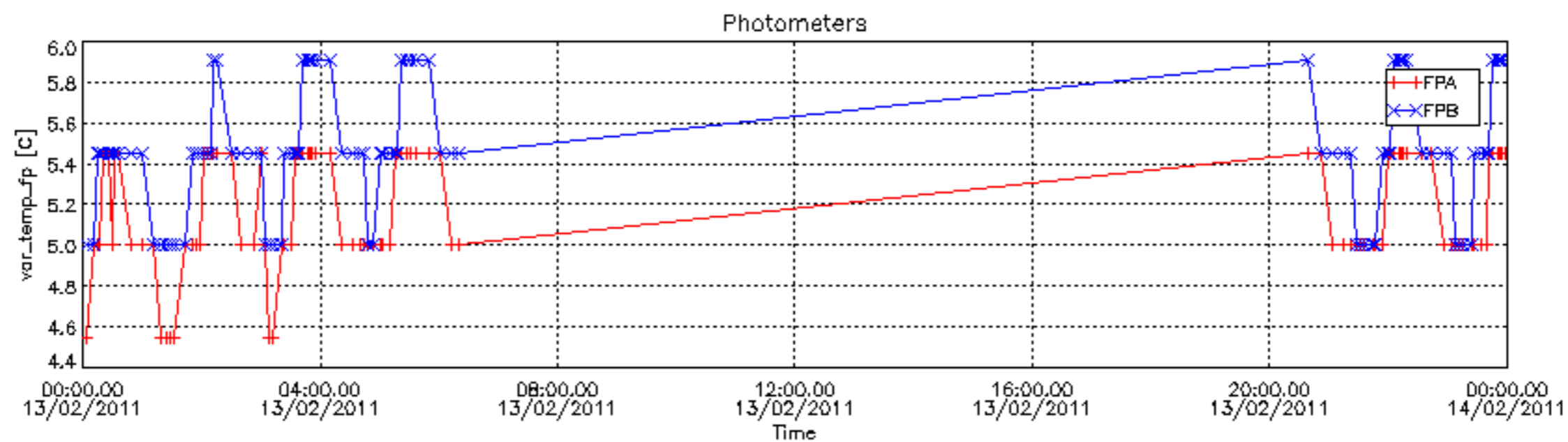
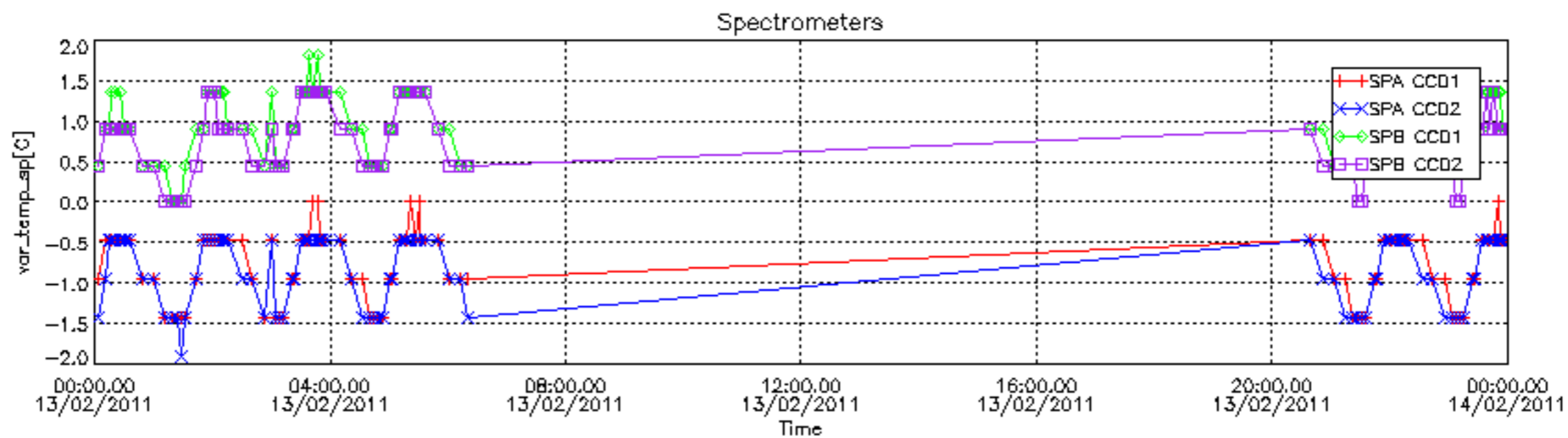


### 8. Auxiliary Data Files used for the production reported in section 2.4

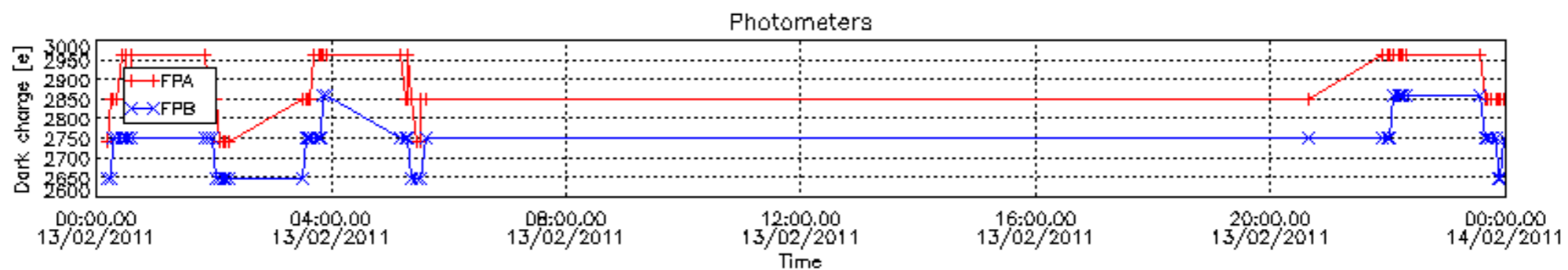
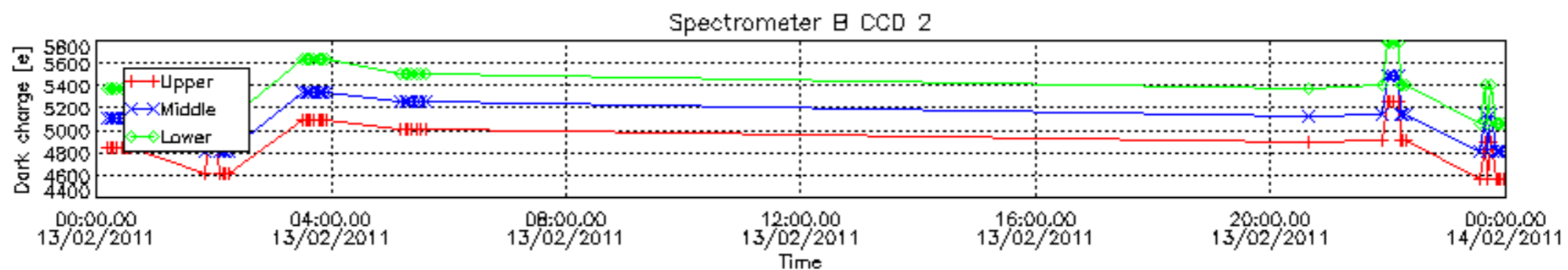
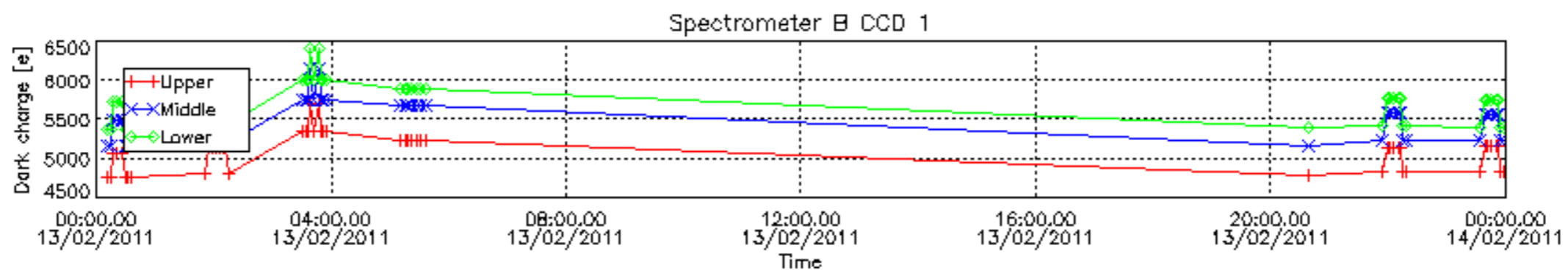
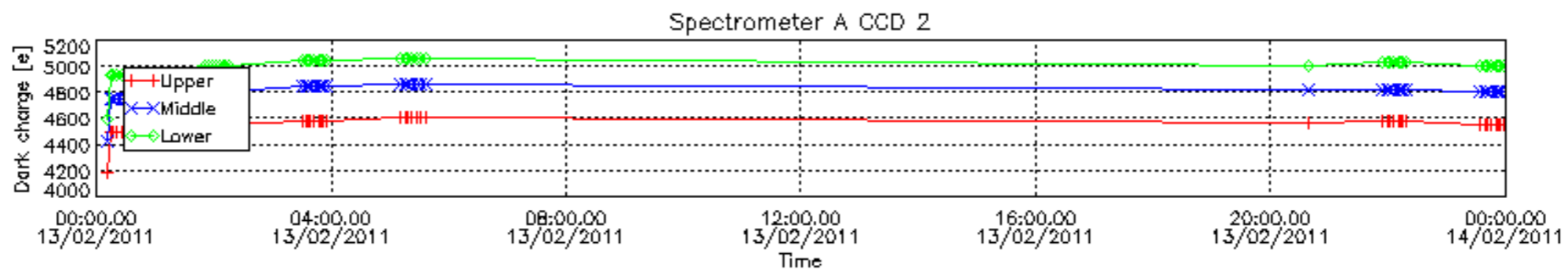
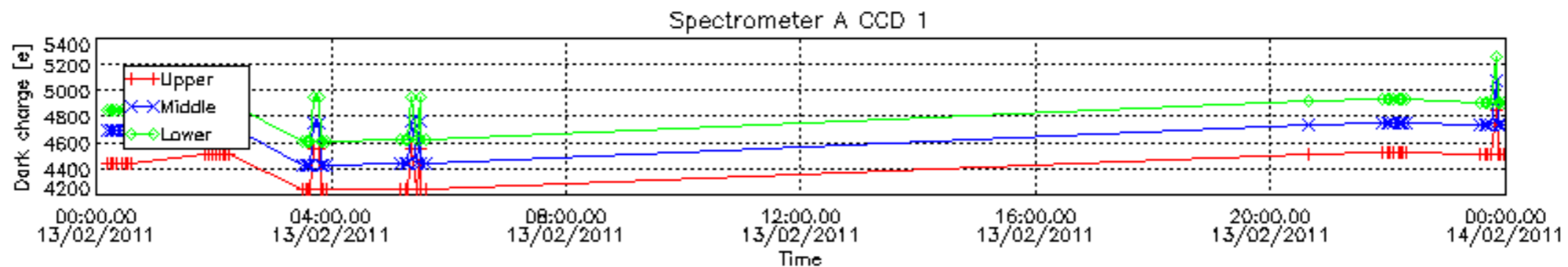
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

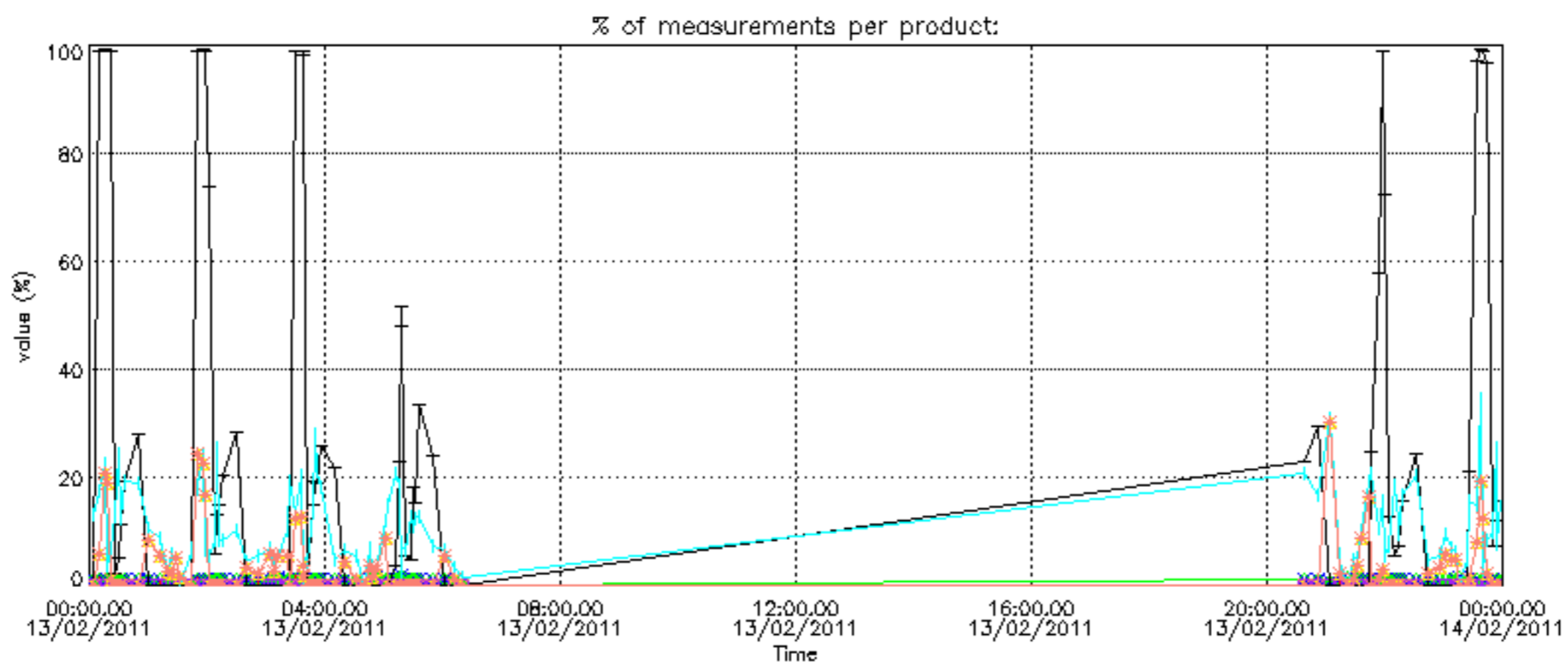
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-FEB-2011 00:03:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110208_091853_20110206_000000_20500101_000000	1	13-FEB-2011 00:03:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	13-FEB-2011 00:03:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-FEB-2011 00:03:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-FEB-2011 00:03:16
ECMWF_FILE	AUX_ECA_AXNECM20110213_052114_20110212_210000_20110213_090000	1	13-FEB-2011 00:03:16
ECMWF_FILE	AUX_ECF_AXNECM20110212_052554_20110212_210000_20110213_090000	18	13-FEB-2011 01:50:40
ECMWF_FILE	AUX_ECF_AXNECM20110212_172554_20110213_030000_20110213_150000	29	13-FEB-2011 02:59:59
ECMWF_FILE	AUX_ECF_AXNECM20110213_052115_20110213_150000_20110214_030000	66	13-FEB-2011 20:38:33
ECMWF_FILE	AUX_ECF_AXNECM20110213_052115_20110213_210000_20110214_090000	76	13-FEB-2011 21:53:39
OPTIONAL_ECMWF_FILE	MISSING	1	13-FEB-2011 00:03:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110212_222429_000057383099_00259_46825_2515.N1	1	13-FEB-2011 00:03:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_000526_000057383099_00260_46826_2516.N1	2	13-FEB-2011 00:10:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_014104_000041443099_00261_46827_2517.N1	18	13-FEB-2011 01:50:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_025527_000060573099_00262_46828_2518.N1	29	13-FEB-2011 02:59:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_044143_000054193099_00263_46829_2519.N1	48	13-FEB-2011 04:45:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_203246_000041443099_00273_46839_2520.N1	66	13-FEB-2011 20:38:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_214709_000057383099_00273_46839_2521.N1	76	13-FEB-2011 21:53:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110213_232806_000057383099_00274_46840_2522.N1	93	13-FEB-2011 23:33:53



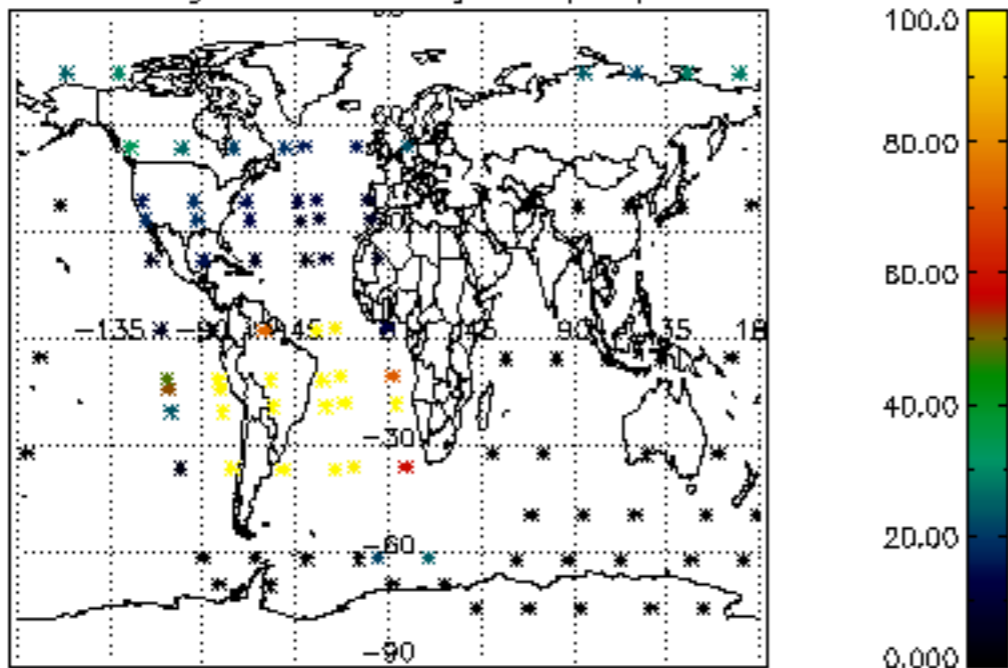




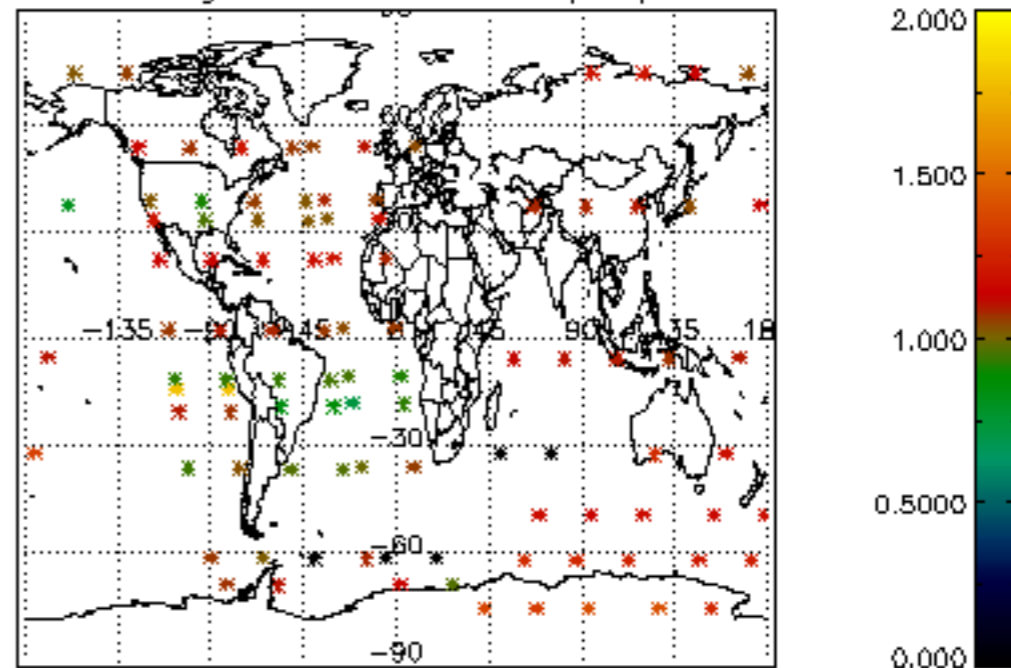




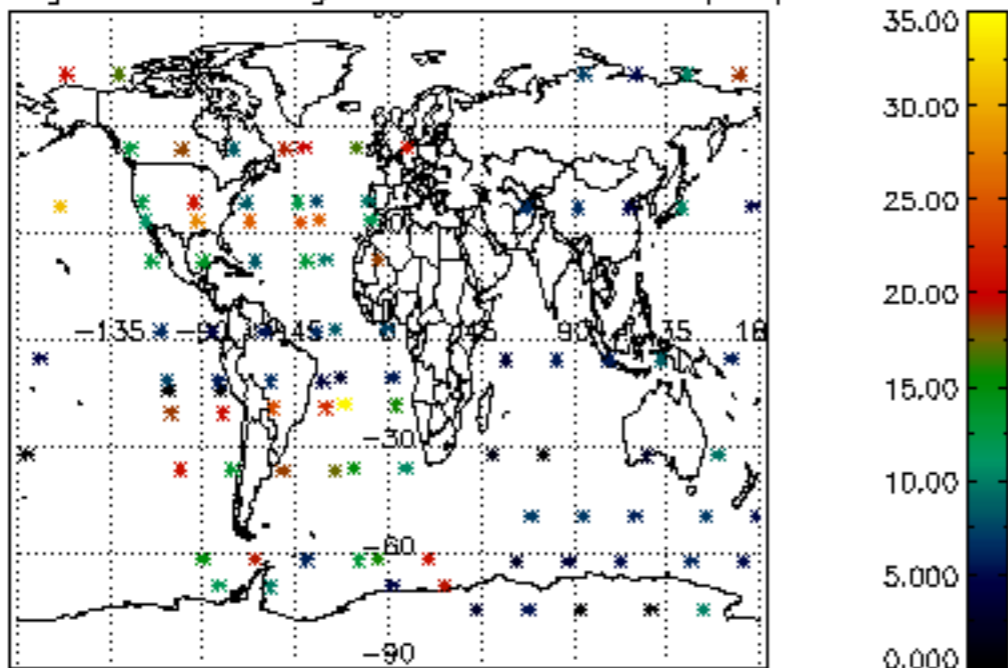
Percentage of cosmic ray hits per profile



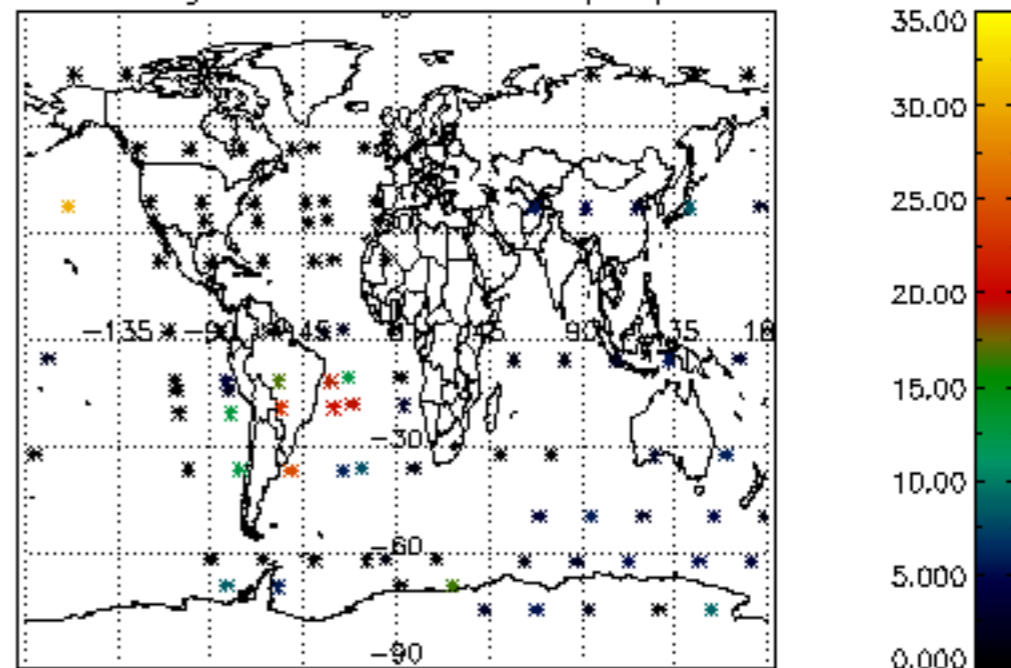
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

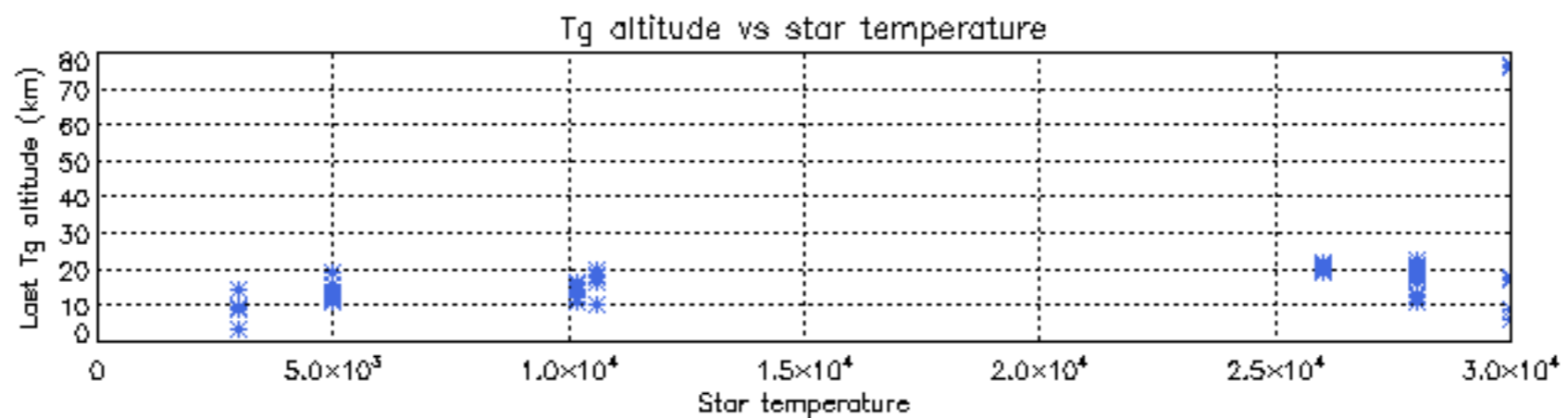
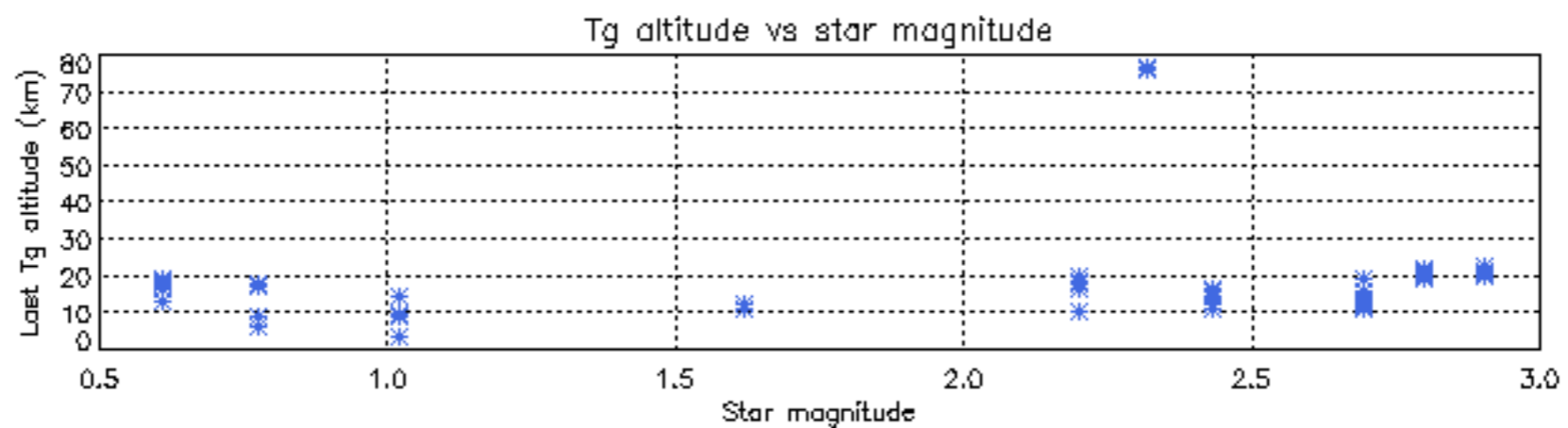
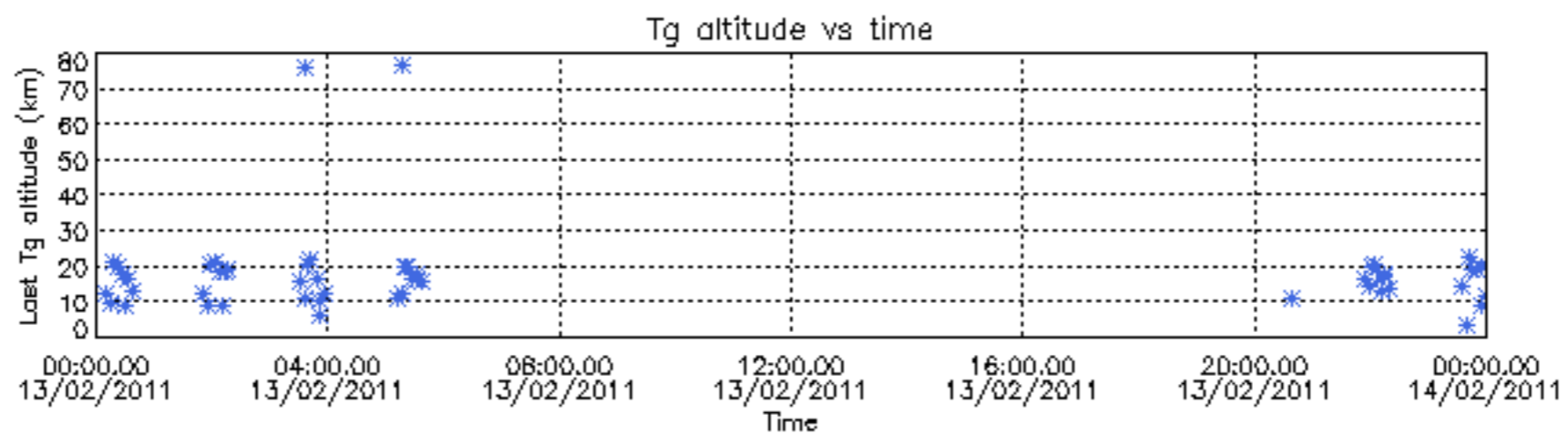


Percentage of saturation errors per profile

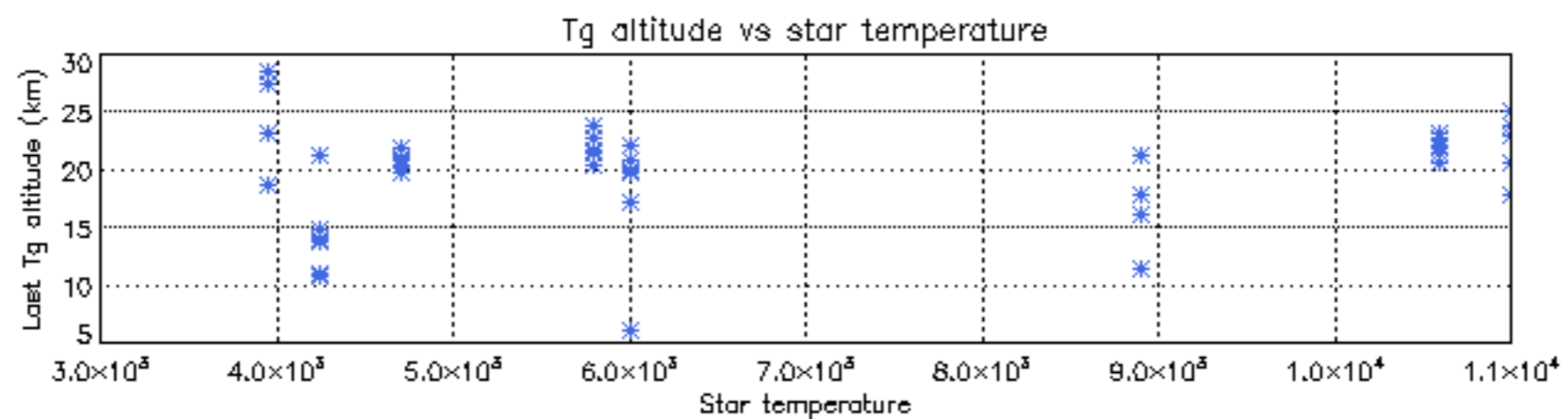
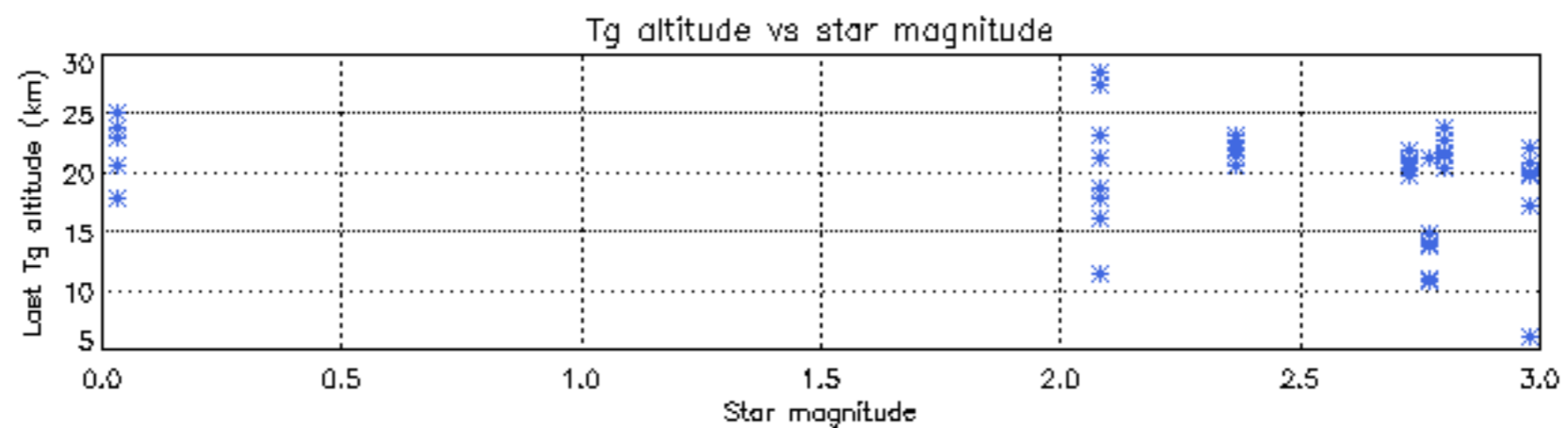
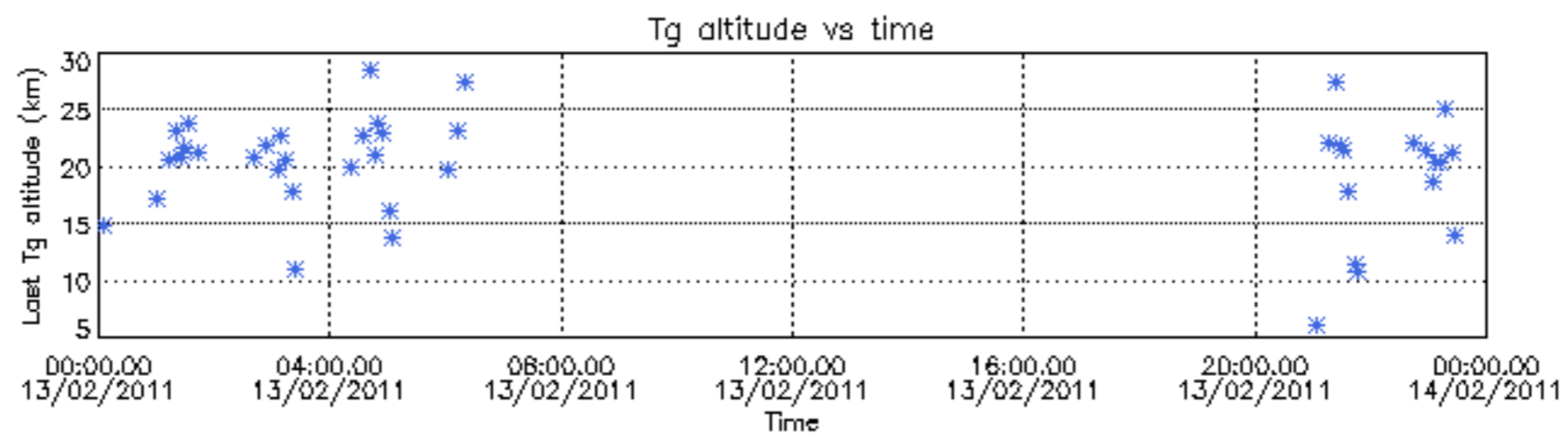


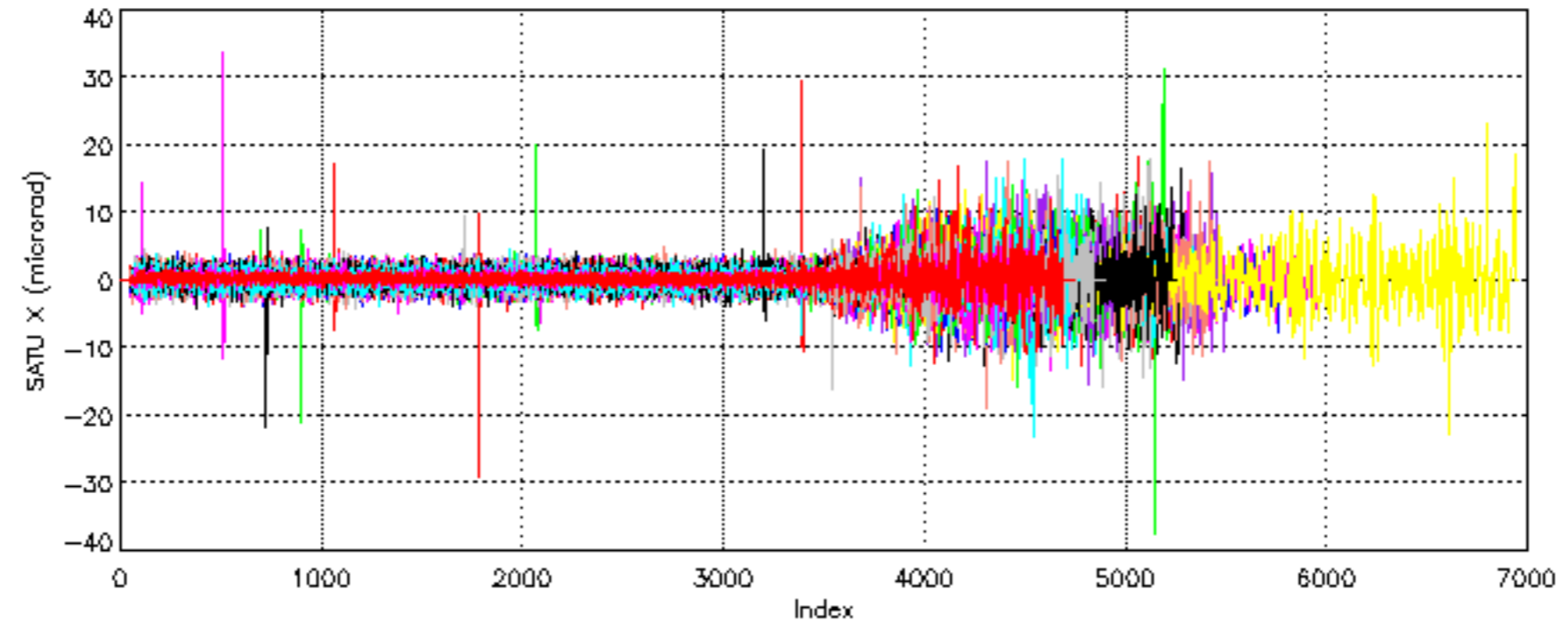


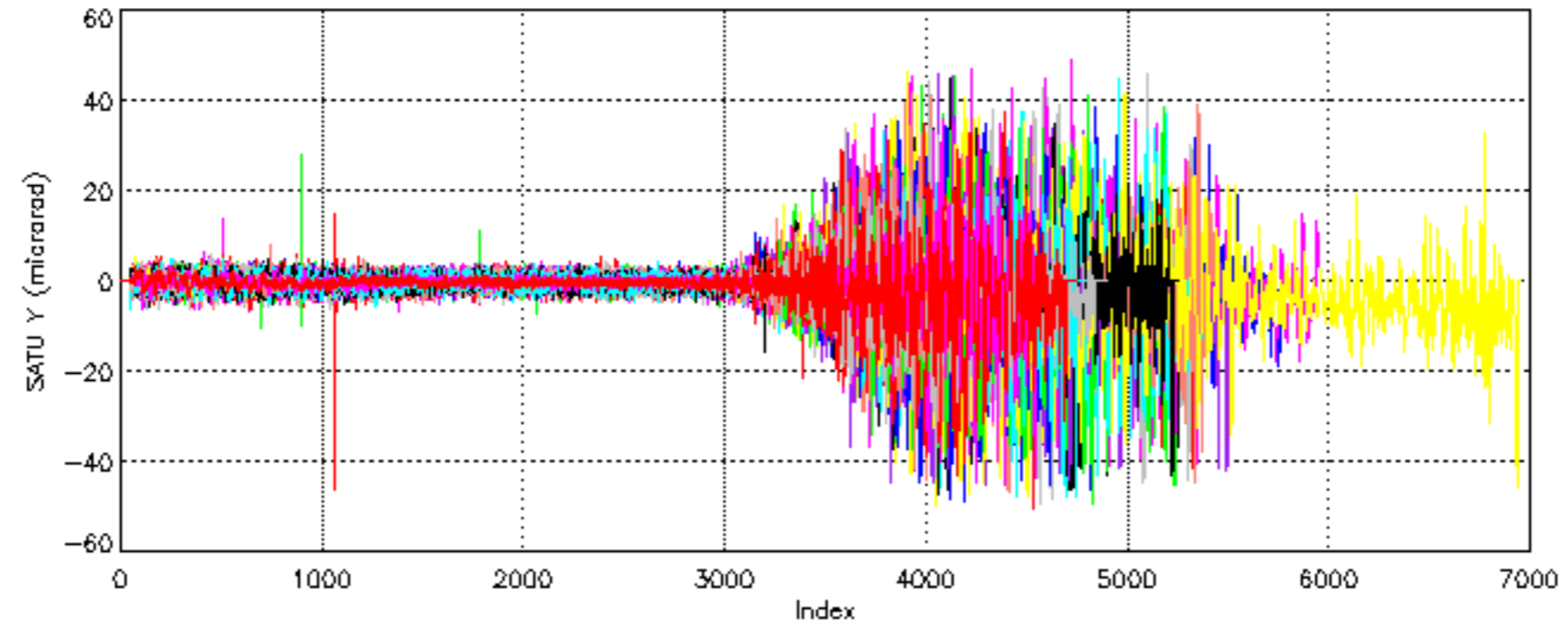
Tangent altitude at which the star is lost



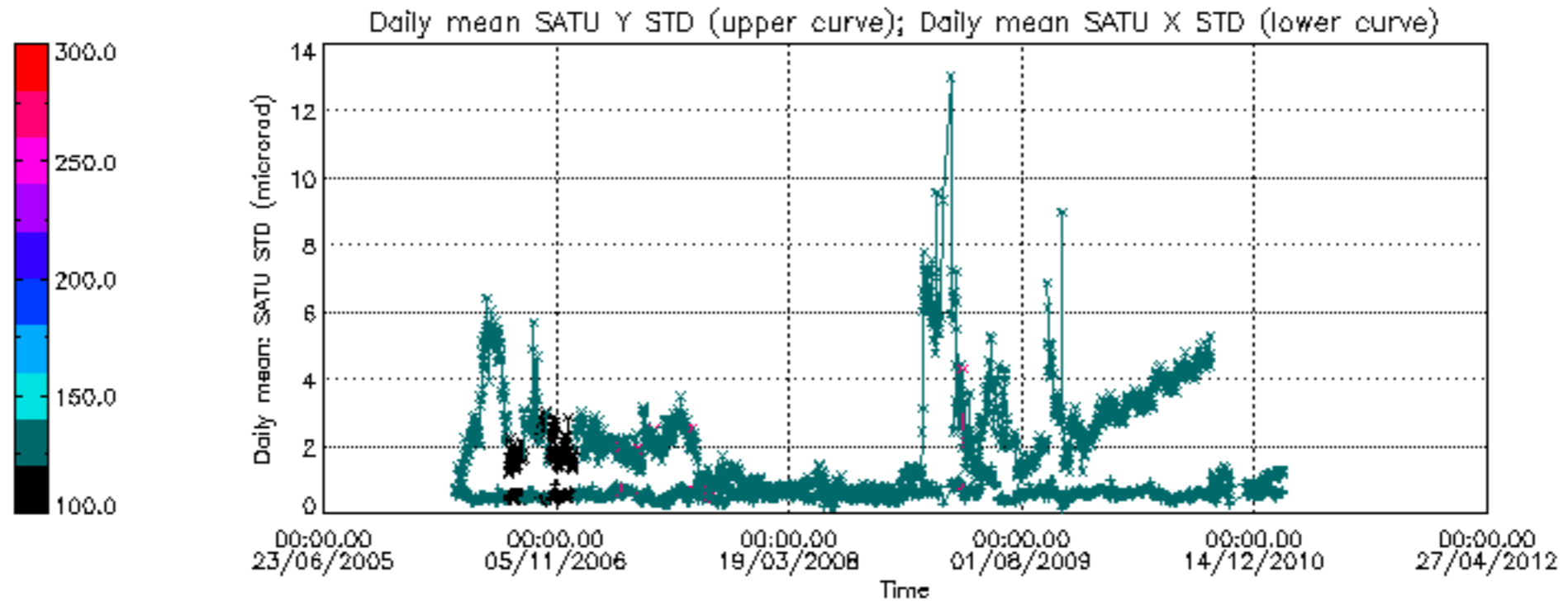
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110201\_004830\_000056763099\_00088\_46654\_2201.N1

1; -719.1; 01-FEB-2011 00:48:30; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 7;46654  
 2; -464.4; 01-FEB-2011 00:52:45; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46654  
 3; 15.5; 01-FEB-2011 01:00:45; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;46655  
 4; 109.8; 01-FEB-2011 01:02:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46655  
 5; 263.2; 01-FEB-2011 01:04:53; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;46655  
 6; 465.9; 01-FEB-2011 01:08:15; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;46655  
 7; 587.0; 01-FEB-2011 01:10:16; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;46655  
 8; 808.8; 01-FEB-2011 01:13:58; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46655  
 9; 1072.2; 01-FEB-2011 01:18:22; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;46655  
 10; 1457.7; 01-FEB-2011 01:24:47; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;46655  
 11; 1730.7; 01-FEB-2011 01:29:20; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;46655  
 12; 1980.4; 01-FEB-2011 01:33:30; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;46655  
 13; 2379.1; 01-FEB-2011 01:40:09; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;46655  
 14; 3264.1; 01-FEB-2011 01:54:54; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;46655  
 15; 3593.4; 01-FEB-2011 02:00:23; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46655  
 16; 3875.8; 01-FEB-2011 02:05:05; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46655  
 17; 4066.7; 01-FEB-2011 02:08:16; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;46655  
 18; 4465.4; 01-FEB-2011 02:14:55; Bright; 63.0; 133; 40Zet Her ; 2.81; 6000;occ; 126; 0;46655  
 19; 4682.8; 01-FEB-2011 02:18:32; Bright; 47.0; 127; 27Bet Her ; 2.78; 4700;occ; 94; 0;46655  
 20; 4903.9; 01-FEB-2011 02:22:13; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;46655

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 6; 263.8; 01-FEB-2011 02:45:07; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46656  
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 9; 809.5; 01-FEB-2011 02:54:13; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46656  
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 11; 1458.0; 01-FEB-2011 03:05:01; Dark ; 40.5; 132; 15Rho Pup ; 2.80; 6900;occ; 81; 0;46656  
 12; 1730.8; 01-FEB-2011 03:09:34; Dark ; 53.0; 48; 30Alp Hya ; 1.98; 4100;occ; 106; 0;46656  
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 17; 1073.0; 01-FEB-2011 04:38:50; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;46657  
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13; 467.6; 01-FEB-2011 06:08:59; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;46658
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19; 1980.6; 01-FEB-2011 06:34:12; Dark ; 50.0; 8; 10Alp CMi ; 0.40; 6500;occ; 100; 0;46658
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21; 3262.1; 01-FEB-2011 06:55:34; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;46658
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21; 4907.7; 01-FEB-2011 22:25:05; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46667
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12; 112.6; 01-FEB-2011 07:43:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46659
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4; -83.8; 03-FEB-2011 21:28:40; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46695  
5; 53.7; 03-FEB-2011 21:30:58; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;46696  
6; 214.1; 03-FEB-2011 21:33:38; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;46696  
7; 287.5; 03-FEB-2011 21:34:52; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;46696  
8; 487.7; 03-FEB-2011 21:38:12; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46696  
9; 645.7; 03-FEB-2011 21:40:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46696  
10; 832.6; 03-FEB-2011 21:43:57; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46696  
11; 1086.2; 03-FEB-2011 21:48:10; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;46696  
12; 1728.3; 03-FEB-2011 21:58:52; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;46696  
13; 2374.3; 03-FEB-2011 22:09:38; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;46696  
14; 3236.7; 03-FEB-2011 22:24:01; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;46696  
15; 3583.0; 03-FEB-2011 22:29:47; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46696  
16; 3867.8; 03-FEB-2011 22:34:32; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46696  
17; 4065.5; 03-FEB-2011 22:37:50; Bright; 56.0; 130; 23Bet Dra ; 2.80; 5800;occ; 112; 0;46696  
18; 4471.0; 03-FEB-2011 22:44:35; Bright; 65.0; 133; 40Zet Her ; 2.81; 6000;occ; 130; 0;46696  
19; 4697.2; 03-FEB-2011 22:48:21; Bright; 70.0; 127; 27Bet Her ; 2.78; 4700;occ; 140; 0;46696  
20; 4917.5; 03-FEB-2011 22:52:02; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;46696  
21; 5313.8; 03-FEB-2011 22:58:38; Dark ; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;46696

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2; -433.8; 03-FEB-2011 23:03:04; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;46696  
3; -341.1; 03-FEB-2011 23:04:37; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46696  
4; -82.9; 03-FEB-2011 23:08:55; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;46696  
5; 54.6; 03-FEB-2011 23:11:13; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;46697  
6; 214.6; 03-FEB-2011 23:13:53; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;46697  
7; 288.3; 03-FEB-2011 23:15:06; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;46697  
8; 488.3; 03-FEB-2011 23:18:26; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;46697  
9; 646.5; 03-FEB-2011 23:21:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46697  
10; 833.0; 03-FEB-2011 23:24:11; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46697  
11; 1086.5; 03-FEB-2011 23:28:24; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;46697  
12; 1728.3; 03-FEB-2011 23:39:06; Dark ; 56.5; 48; 30Alp Hya ; 1.98; 4100;occ; 113; 0;46697  
13; 2374.2; 03-FEB-2011 23:49:52; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;46697  
14; 3236.1; 04-FEB-2011 00:04:14; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;46697  
15; 3582.7; 04-FEB-2011 00:10:01; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;46697  
16; 3867.7; 04-FEB-2011 00:14:46; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46697  
17; 4065.4; 04-FEB-2011 00:18:03; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46697  
18; 4471.2; 04-FEB-2011 00:24:49; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;46697  
19; 4697.5; 04-FEB-2011 00:28:35; Bright; 49.5; 127; 27Bet Her ; 2.78; 4700;occ; 99; 0;46697  
20; 4917.8; 04-FEB-2011 00:32:16; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46697  
21; 5314.3; 04-FEB-2011 00:38:52; Dark ; 20.0; 86; 35Eta Oph ; 2.43; 10200;occ; 40; 0;46697

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1; -2144.2; 03-FEB-2011 07:32:28; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46687  
2; -1948.1; 03-FEB-2011 07:35:44; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46687  
3; -1544.1; 03-FEB-2011 07:42:28; Bright; 65.0; 133; 40Zet Her ; 2.81; 6000;occ; 130; 0;46687  
4; -1320.1; 03-FEB-2011 07:46:12; Bright; 49.5; 127; 27Bet Her ; 2.78; 4700;occ; 99; 0;46687  
5; -1099.5; 03-FEB-2011 07:49:52; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;46687  
6; -705.1; 03-FEB-2011 07:56:27; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;46687  
7; -440.4; 03-FEB-2011 08:00:52; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;46687  
8; -350.0; 03-FEB-2011 08:02:22; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;46687  
9; -90.6; 03-FEB-2011 08:06:41; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46687  
10; 46.3; 03-FEB-2011 08:08:58; Dark ; 46.5; 109; Bet Lup ; 2.68; 26000;occ; 93; 0;46688  
11; 209.7; 03-FEB-2011 08:11:42; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;46688  
12; 283.0; 03-FEB-2011 08:12:55; Dark ; 52.0; 10; Bet Cen ; 0.61; 28000;occ; 104; 0;46688  
13; 483.7; 03-FEB-2011 08:16:16; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;46688  
14; 639.5; 03-FEB-2011 08:18:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46688  
15; 828.1; 03-FEB-2011 08:22:00; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46688  
16; 1083.7; 03-FEB-2011 08:26:16; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;46688

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2; 2375.3; 03-FEB-2011 08:47:47; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46688  
3; 3242.2; 03-FEB-2011 09:02:14; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46688  
4; 3585.1; 03-FEB-2011 09:07:57; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46688  
5; 3869.6; 03-FEB-2011 09:12:42; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46688  
6; 4066.0; 03-FEB-2011 09:15:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46688  
7; 4470.0; 03-FEB-2011 09:22:42; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;46688  
8; 4694.2; 03-FEB-2011 09:26:26; Bright; 49.5; 127; 27Bet Her ; 2.78; 4700;occ; 99; 0;46688  
9; 4914.8; 03-FEB-2011 09:30:07; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46688  
10; 5309.3; 03-FEB-2011 09:36:41; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;46688



11; 5574.4; 03-FEB-2011 09:41:06; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;46688  
 12; 5665.0; 03-FEB-2011 09:42:37; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;46688  
 13; 5924.2; 03-FEB-2011 09:46:56; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46688  
 14; 6061.3; 03-FEB-2011 09:49:13; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;46689  
 15; 6224.0; 03-FEB-2011 09:51:56; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;46689  
 16; 6297.6; 03-FEB-2011 09:53:10; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;46689  
 17; 6498.1; 03-FEB-2011 09:56:30; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;46689  
 18; 6654.2; 03-FEB-2011 09:59:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46689  
 19; 6842.6; 03-FEB-2011 10:02:15; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46689  
 20; 7097.9; 03-FEB-2011 10:06:30; Dark ; 51.0; 65; Lam Vel ; 2.20; 4400;occ; 102; 0;46689  
 21; 7742.7; 03-FEB-2011 10:17:15; Dark ; 17.5; 48; 30Alp Hya ; 1.98; 4100;occ; 35; 0;46689

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1; 1728.7; 03-FEB-2011 10:17:15; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;46689  
 2; 2375.1; 03-FEB-2011 10:28:01; Bright; 41.0; 17; 78Bet Gem ; 1.16; 4500;occ; 82; 0;46689  
 3; 3241.6; 03-FEB-2011 10:42:28; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;46689  
 4; 3584.9; 03-FEB-2011 10:48:11; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46689  
 5; 3869.2; 03-FEB-2011 10:52:55; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;46689  
 6; 4065.8; 03-FEB-2011 10:56:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46689  
 7; 4470.0; 03-FEB-2011 11:02:56; Bright; 44.5; 133; 40Zet Her ; 2.81; 6000;occ; 89; 0;46689  
 8; 4694.6; 03-FEB-2011 11:06:41; Bright; 69.0; 127; 27Bet Her ; 2.78; 4700;occ; 138; 0;46689  
 9; 4915.1; 03-FEB-2011 11:10:21; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46689  
 10; 5309.9; 03-FEB-2011 11:16:56; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;46689  
 11; 5574.9; 03-FEB-2011 11:21:21; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;46689  
 12; 5665.8; 03-FEB-2011 11:22:52; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;46689  
 13; 5925.1; 03-FEB-2011 11:27:11; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46689  
 14; 6062.1; 03-FEB-2011 11:29:28; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46690  
 15; 6224.7; 03-FEB-2011 11:32:11; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;46690  
 16; 6298.0; 03-FEB-2011 11:33:24; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;46690  
 17; 6498.5; 03-FEB-2011 11:36:44; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46690  
 18; 6655.0; 03-FEB-2011 11:39:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46690  
 19; 6843.2; 03-FEB-2011 11:42:29; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;46690  
 20; 7098.4; 03-FEB-2011 11:46:44; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;46690

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 2; 2375.1; 03-FEB-2011 12:08:15; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46690  
 3; 3241.0; 03-FEB-2011 12:22:41; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;46690  
 4; 3584.6; 03-FEB-2011 12:28:24; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46690  
 5; 3869.1; 03-FEB-2011 12:33:09; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;46690  
 6; 4065.8; 03-FEB-2011 12:36:26; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46690  
 7; 4470.3; 03-FEB-2011 12:43:10; Bright; 65.0; 133; 40Zet Her ; 2.81; 6000;occ; 130; 0;46690  
 8; 4694.9; 03-FEB-2011 12:46:55; Bright; 48.5; 127; 27Bet Her ; 2.78; 4700;occ; 97; 0;46690  
 9; 4915.5; 03-FEB-2011 12:50:35; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46690  
 10; 5310.5; 03-FEB-2011 12:57:10; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;46690  
 11; 5575.9; 03-FEB-2011 13:01:36; Dark ; 58.5; 16; 21Alp Sco ; 1.02; 3000;occ; 117; 0;46690  
 12; 5666.9; 03-FEB-2011 13:03:07; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46690  
 13; 5925.9; 03-FEB-2011 13:07:26; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46690  
 14; 6063.1; 03-FEB-2011 13:09:43; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46691  
 15; 6225.4; 03-FEB-2011 13:12:25; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;46691  
 16; 6298.7; 03-FEB-2011 13:13:39; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46691  
 17; 6499.1; 03-FEB-2011 13:16:59; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46691  
 18; 6655.8; 03-FEB-2011 13:19:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46691  
 19; 6843.8; 03-FEB-2011 13:22:44; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;46691  
 20; 7098.6; 03-FEB-2011 13:26:59; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;46691

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 2; 2375.1; 03-FEB-2011 13:48:29; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;46691  
 3; 3240.3; 03-FEB-2011 14:02:54; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;46691  
 4; 3584.5; 03-FEB-2011 14:08:38; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46691  
 5; 3869.1; 03-FEB-2011 14:13:23; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46691  
 6; 4065.9; 03-FEB-2011 14:16:40; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46691  
 7; 4470.5; 03-FEB-2011 14:23:24; Bright; 65.0; 133; 40Zet Her ; 2.81; 6000;occ; 130; 0;46691  
 8; 4695.7; 03-FEB-2011 14:27:10; Bright; 48.0; 127; 27Bet Her ; 2.78; 4700;occ; 96; 0;46691  
 9; 4916.0; 03-FEB-2011 14:30:50; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46691  
 10; 5311.2; 03-FEB-2011 14:37:25; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;46691  
 11; 5576.6; 03-FEB-2011 14:41:51; Dark ; 62.0; 16; 21Alp Sco ; 1.02; 3000;occ; 124; 0;46691  
 12; 5668.1; 03-FEB-2011 14:43:22; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;46691  
 13; 5926.9; 03-FEB-2011 14:47:41; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;46691  
 14; 6064.2; 03-FEB-2011 14:49:58; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;46692

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17; 6499.8; 03-FEB-2011 14:57:14; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;46692
18; 6656.6; 03-FEB-2011 14:59:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46692
19; 6844.5; 03-FEB-2011 15:02:58; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;46692
20; 7099.2; 03-FEB-2011 15:07:13; Dark ; 51.0; 65; Lam Vel ; 2.20; 4400;occ; 102; 0;46692
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 3; 3239.8; 03-FEB-2011 15:43:08; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;46692
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 5; 3868.9; 03-FEB-2011 15:53:37; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;46692
 6; 4065.8; 03-FEB-2011 15:56:54; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;46692
 7; 4470.8; 03-FEB-2011 16:03:39; Bright; 44.5; 133; 40Zet Her ; 2.81; 6000;occ; 89; 0;46692
 8; 4695.8; 03-FEB-2011 16:07:24; Bright; 70.0; 127; 27Bet Her ; 2.78; 4700;occ; 140; 0;46692
 9; 4916.3; 03-FEB-2011 16:11:04; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46692
10; 5311.8; 03-FEB-2011 16:17:40; Dark ; 47.0; 86; 35Eta Oph ; 2.43; 10200;occ; 94; 0;46692
11; 5577.5; 03-FEB-2011 16:22:05; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;46692
12; 5669.0; 03-FEB-2011 16:23:37; Dark ; 47.5; 158; 6Pi Sco ; 2.91; 28000;occ; 95; 0;46692
13; 5927.7; 03-FEB-2011 16:27:56; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46692
14; 6065.1; 03-FEB-2011 16:30:13; Dark ; 46.0; 109; Bet Lup ; 2.68; 26000;occ; 92; 0;46693
15; 6226.6; 03-FEB-2011 16:32:54; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;46693
16; 6300.1; 03-FEB-2011 16:34:08; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;46693
17; 6500.4; 03-FEB-2011 16:37:28; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;46693
18; 6657.5; 03-FEB-2011 16:40:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46693
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 17; 6509.1; 04-FEB-2011 21:01:35; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46710  
 18; 6643.4; 04-FEB-2011 21:03:50; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46710  
 19; 6854.3; 04-FEB-2011 21:07:21; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;46710

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 3; -70.2; 05-FEB-2011 00:12:38; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;46711  
 4; 150.5; 05-FEB-2011 00:16:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46712  
 5; 297.2; 05-FEB-2011 00:18:45; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;46712  
 6; 496.1; 05-FEB-2011 00:22:04; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;46712  
 7; 630.8; 05-FEB-2011 00:24:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;46712  
 8; 841.4; 05-FEB-2011 00:27:50; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;46712  
 9; 1091.6; 05-FEB-2011 00:32:00; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;46712  
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 13; 3578.8; 05-FEB-2011 01:13:27; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46712  
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 6; 631.7; 05-FEB-2011 02:04:34; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46713  
 7; 842.0; 05-FEB-2011 02:08:04; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;46713  
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 9; 1727.6; 05-FEB-2011 02:22:50; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;46713  
 10; 2373.1; 05-FEB-2011 02:33:35; Bright; 41.0; 17; 78Bet Gem ; 1.16; 4500;occ; 82; 0;46713  
 11; 3226.0; 05-FEB-2011 02:47:48; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46713  
 12; 3578.6; 05-FEB-2011 02:53:41; Bright; 10.5; 60; 7Bet UMi ; 2.08; 3950;occ; 21; 0;46713

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 11; 152.0; 05-FEB-2011 03:36:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46714  
 12; 298.6; 05-FEB-2011 03:39:15; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;46714  
 13; 497.2; 05-FEB-2011 03:42:33; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;46714  
 14; 632.8; 05-FEB-2011 03:44:49; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46714  
 15; 842.7; 05-FEB-2011 03:48:19; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46714



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19; 3225.5; 05-FEB-2011 04:28:02; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;46714
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 5; -1090.1; 05-FEB-2011 04:56:20; Bright; 56.0; 126; 60Bet Oph ; 2.77; 4250;occ; 112; 0;46714
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10; 152.7; 05-FEB-2011 05:17:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46715
11; 299.3; 05-FEB-2011 05:19:29; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46715
12; 497.8; 05-FEB-2011 05:22:48; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;46715
13; 633.5; 05-FEB-2011 05:25:04; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46715
14; 843.2; 05-FEB-2011 05:28:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;46715
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16; 1727.8; 05-FEB-2011 05:43:18; Dark ; 56.0; 48; 30Alp Hya ; 1.98; 4100;occ; 112; 0;46715
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 4; 3219.0; 05-FEB-2011 21:10:15; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;46724
 5; 3575.7; 05-FEB-2011 21:16:12; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46724
 6; 3862.2; 05-FEB-2011 21:20:59; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46724
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 9; 4707.7; 05-FEB-2011 21:35:04; Bright; 52.5; 127; 27Bet Her ; 2.78; 4700;occ; 105; 0;46724
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 8; 848.5; 05-FEB-2011 22:10:59; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;46725
 9; 1097.4; 05-FEB-2011 22:15:08; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;46725
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12; 3218.4; 05-FEB-2011 22:50:29; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;46725
13; 3575.3; 05-FEB-2011 22:56:26; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46725
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16; 4475.1; 05-FEB-2011 23:11:25; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;46725
17; 4708.1; 05-FEB-2011 23:15:18; Bright; 73.0; 127; 27Bet Her ; 2.78; 4700;occ; 146; 0;46725
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 4; -1304.1; 06-FEB-2011 05:56:16; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;46729
 5; -1084.5; 06-FEB-2011 05:59:56; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;46729
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 6; 3858.8; 06-FEB-2011 20:44:11; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46738
 7; 4063.6; 06-FEB-2011 20:47:36; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;46738
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 9; 4713.4; 06-FEB-2011 20:58:26; Bright; 27.0; 127; 27Bet Her ; 2.78; 4700;occ; 54; 0;46738
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13; 3858.6; 06-FEB-2011 22:24:25; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46739
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 13; 3571.2; 06-FEB-2011 23:59:52; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;46740  
 14; 3858.4; 07-FEB-2011 00:04:39; Bright; 51.5; 119; 14Eta Dra ; 2.73; 4700;occ; 103; 0;46740  
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5; 3857.5; 07-FEB-2011 08:25:48; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;46745
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 17; 6670.5; 07-FEB-2011 09:12:41; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46746  
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 3; 3158.2; 07-FEB-2011 11:34:37; Bright; 30.0; 82; 48Bet UMa ; 2.37; 10600;occ; 60; 0;46747  
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 13; 5976.4; 07-FEB-2011 12:21:35; Dark ; 46.0; 131; Gam Lup ; 2.80; 26000;occ; 92; 0;46747  
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 17; 6672.5; 07-FEB-2011 14:13:25; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46749  
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17; 6673.3; 07-FEB-2011 15:53:40; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46750
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4; 3568.4; 07-FEB-2011 18:22:23; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;46751
5; 3855.8; 07-FEB-2011 18:27:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46751
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13; 5980.2; 07-FEB-2011 19:02:35; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;46751
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 5; 867.5; 08-FEB-2011 08:39:28; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46760
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18; 2383.3; 13-FEB-2011 04:20:50; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;46829
19; 3097.7; 13-FEB-2011 04:32:45; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46829
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10; 41.6; 13-FEB-2011 05:22:03; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;46830
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12; 369.8; 13-FEB-2011 05:27:31; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;46830
13; 556.8; 13-FEB-2011 05:30:38; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46830
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17; 2383.0; 13-FEB-2011 06:01:04; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;46830
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 9; 42.5; 13-FEB-2011 07:02:18; Dark ; 45.5; 131; Gam Lup ; 2.80; 26000;occ; 91; 0;46831
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12; 557.4; 13-FEB-2011 07:10:52; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;46831
13; 648.5; 13-FEB-2011 07:12:24; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;46831
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 5; 3835.1; 13-FEB-2011 08:05:30; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46831
 6; 4056.4; 13-FEB-2011 08:09:11; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46831
 7; 4305.3; 13-FEB-2011 08:13:20; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46831
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 9; 4973.5; 13-FEB-2011 08:24:29; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;46831
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11; 5701.6; 13-FEB-2011 08:36:37; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46831
12; 5826.4; 13-FEB-2011 08:38:41; Dark ; 57.0; 158; 6Pi Sco ; 2.91; 28000;occ; 114; 0;46831
13; 6057.5; 13-FEB-2011 08:42:33; Dark ; 48.0; 131; Gam Lup ; 2.80; 26000;occ; 96; 0;46832
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 3; 3544.9; 13-FEB-2011 09:40:54; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;46832
 4; 3835.1; 13-FEB-2011 09:45:44; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46832
 5; 4056.3; 13-FEB-2011 09:49:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;46832
 6; 4305.3; 13-FEB-2011 09:53:34; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;46832
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 11; 5827.6; 13-FEB-2011 10:18:57; Dark ; 54.0; 158; 6Pi Sco ; 2.91; 28000;occ; 108; 0;46832  
 12; 6058.6; 13-FEB-2011 10:22:48; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46833  
 13; 6254.9; 13-FEB-2011 10:26:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46833  
 14; 6385.7; 13-FEB-2011 10:28:15; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;46833  
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 3; 3094.1; 13-FEB-2011 12:53:51; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;46834  
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 4; 3544.1; 13-FEB-2011 14:41:35; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;46835  
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 6; 4056.1; 13-FEB-2011 14:50:07; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46835  
 7; 4305.8; 13-FEB-2011 14:54:17; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;46835  
 8; 4840.4; 13-FEB-2011 15:03:11; Bright; 64.0; 59; 55Alp Oph ; 2.08; 8900;occ; 128; 0;46835  
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14; 670.8; 15-FEB-2011 07:39:32; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;46860  
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3; 3076.4; 15-FEB-2011 08:19:38; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;46860  
4; 3536.4; 15-FEB-2011 08:27:18; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46860  
5; 3826.5; 15-FEB-2011 08:32:08; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;46860  
6; 4052.9; 15-FEB-2011 08:35:54; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;46860  
7; 4308.0; 15-FEB-2011 08:40:09; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;46860  
8; 4851.7; 15-FEB-2011 08:49:13; Bright; 52.5; 59; 55Alp Oph ; 2.08; 8900;occ; 105; 0;46860  
9; 4988.3; 15-FEB-2011 08:51:29; Dark ; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;46860  
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16; 6484.1; 15-FEB-2011 09:16:25; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;46861  
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5; 3826.3; 15-FEB-2011 10:12:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46861  
6; 4052.7; 15-FEB-2011 10:16:08; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;46861  
7; 4307.9; 15-FEB-2011 10:20:23; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;46861  
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9; 4988.6; 15-FEB-2011 10:31:44; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;46861  
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13; 6088.4; 15-FEB-2011 10:50:04; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;46862  
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17; 6586.8; 15-FEB-2011 10:58:22; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;46862  
18; 6686.2; 15-FEB-2011 11:00:01; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;46862  
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4; 3535.6; 15-FEB-2011 13:27:59; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46863  
5; 3825.6; 15-FEB-2011 13:32:49; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;46863  
6; 4052.5; 15-FEB-2011 13:36:36; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;46863  
7; 4308.2; 15-FEB-2011 13:40:51; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;46863  
8; 4853.2; 15-FEB-2011 13:49:56; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;46863  
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13; 6090.4; 15-FEB-2011 14:10:33; Dark ; 47.0; 131; Gam Lup ; 2.80; 26000;occ; 94; 0;46864  
14; 6278.6; 15-FEB-2011 14:13:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46864  
15; 6404.8; 15-FEB-2011 14:15:48; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;46864  
16; 6486.5; 15-FEB-2011 14:17:10; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;46864  
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3; 3073.9; 15-FEB-2011 15:00:31; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46864
4; 3535.4; 15-FEB-2011 15:08:12; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46864
5; 3825.3; 15-FEB-2011 15:13:02; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;46864
6; 4052.7; 15-FEB-2011 15:16:50; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46864
7; 4308.2; 15-FEB-2011 15:21:05; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;46864
8; 4853.7; 15-FEB-2011 15:30:11; Bright; 57.5; 59; 55Alp Oph ; 2.08; 8900;occ; 115; 0;46864
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10; 5432.5; 15-FEB-2011 15:39:50; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;46864
11; 5736.8; 15-FEB-2011 15:44:54; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;46864
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13; 6091.5; 15-FEB-2011 15:50:49; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46865
14; 6279.5; 15-FEB-2011 15:53:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46865
15; 6405.4; 15-FEB-2011 15:56:02; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;46865
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17; 6588.2; 15-FEB-2011 15:59:05; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;46865
18; 6688.6; 15-FEB-2011 16:00:46; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;46865
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3; 3073.1; 15-FEB-2011 16:40:44; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;46865
4; 3535.0; 15-FEB-2011 16:48:26; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46865
5; 3824.9; 15-FEB-2011 16:53:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46865
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9; 4990.9; 15-FEB-2011 17:12:42; Dark ; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;46865
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17; 6575.1; 15-FEB-2011 17:39:06; Dark ; 52.0; 20; Bet Cru ; 1.25; 30000;occ; 104; 0;46866
18; 6649.4; 15-FEB-2011 17:40:21; Dark ; 41.0; 129; Del Cru ; 2.79; 26000;occ; 82; 0;46866
19; 6753.0; 15-FEB-2011 17:42:04; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46866
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3; 2365.6; 15-FEB-2011 18:09:11; Bright; 44.5; 166; 17Eps Leo ; 2.98; 6000;occ; 89; 0;46866
4; 3072.3; 15-FEB-2011 18:20:58; Bright; 59.5; 82; 48Bet UMa ; 2.37; 10600;occ; 119; 0;46866
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7; 4052.1; 15-FEB-2011 18:37:17; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;46866
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13; 5873.1; 15-FEB-2011 19:07:38; Dark ; 39.0; 158; 6Pi Sco ; 2.91; 28000;occ; 78; 0;46866
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20; 6753.8; 15-FEB-2011 19:22:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;46867
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6; 476.7; 16-FEB-2011 00:18:38; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46870
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9; 741.6; 16-FEB-2011 00:23:03; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46870
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14; 564.5; 16-FEB-2011 03:40:34; Dark ; 49.0; 20; Bet Cru ; 1.25; 30000;occ; 98; 0;46872
15; 638.6; 16-FEB-2011 03:41:48; Dark ; 41.0; 129; Del Cru ; 2.79; 26000;occ; 82; 0;46872
16; 742.8; 16-FEB-2011 03:43:32; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;46872
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21; 3068.4; 16-FEB-2011 04:22:18; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;46872
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9; 271.6; 16-FEB-2011 05:15:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46873
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14; 743.5; 16-FEB-2011 05:23:47; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;46873
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 4; 2358.7; 16-FEB-2011 20:52:48; Bright; 47.0; 166; 17Eps Leo ; 2.98; 6000;occ; 94; 0;46882
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 7; 3819.6; 16-FEB-2011 21:17:09; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;46882
 8; 4050.1; 16-FEB-2011 21:20:59; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;46882
 9; 4309.6; 16-FEB-2011 21:25:19; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;46882
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 3; 97.5; 16-FEB-2011 23:35:35; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46884
 4; 280.0; 16-FEB-2011 23:38:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46884
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 7; 628.4; 16-FEB-2011 23:44:26; Dark ; 59.0; 26; Gam Cru ; 1.62; 2900;occ; 118; 0;46884
 8; 750.6; 16-FEB-2011 23:46:28; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;46884
 9; 926.0; 16-FEB-2011 23:49:23; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46884
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11; 2160.0; 17-FEB-2011 00:09:57; Bright; 50.5; 22; 32Alp Leo ; 1.36; 15200;occ; 101; 0;46884
12; 2357.8; 17-FEB-2011 00:13:15; Bright; 43.5; 166; 17Eps Leo ; 2.98; 6000;occ; 87; 0;46884
13; 3060.5; 17-FEB-2011 00:24:58; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;46884
14; 3529.3; 17-FEB-2011 00:32:46; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;46884
15; 3819.0; 17-FEB-2011 00:37:36; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;46884
16; 4049.8; 17-FEB-2011 00:41:27; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;46884
17; 4309.8; 17-FEB-2011 00:45:47; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;46884
18; 4863.2; 17-FEB-2011 00:55:00; Bright; 49.5; 59; 55Alp Oph ; 2.08; 8900;occ; 99; 0;46884
19; 5001.2; 17-FEB-2011 00:57:18; Dark ; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;46884
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 3; -1705.1; 16-FEB-2011 06:23:12; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;46873
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 6; -573.9; 16-FEB-2011 06:42:03; Dark ; 49.5; 86; 35Eta Oph ; 2.43; 10200;occ; 99; 0;46873
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 9; 272.3; 16-FEB-2011 06:56:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46874
10; 396.9; 16-FEB-2011 06:58:14; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46874
11; 480.0; 16-FEB-2011 06:59:37; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;46874
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13; 639.8; 16-FEB-2011 07:02:17; Dark ; 40.5; 129; Del Cru ; 2.79; 26000;occ; 81; 0;46874
14; 744.2; 16-FEB-2011 07:04:01; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;46874
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 3; 2361.6; 16-FEB-2011 09:11:13; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;46875
 4; 3066.4; 16-FEB-2011 09:22:58; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;46875
 5; 3532.0; 16-FEB-2011 09:30:43; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;46875
 6; 3821.8; 16-FEB-2011 09:35:33; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;46875
 7; 4051.1; 16-FEB-2011 09:39:22; Bright; 49.0; 130; 23Bet Dra ; 2.80; 5800;occ; 98; 0;46875
 8; 4309.1; 16-FEB-2011 09:43:40; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;46875
 9; 4858.9; 16-FEB-2011 09:52:50; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;46875

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 12; 5749.3; 16-FEB-2011 10:07:41; Dark ; 57.5; 16; 21Alp Sco ; 1.02; 3000;occ; 115; 0;46875  
 13; 6103.1; 16-FEB-2011 10:13:34; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;46876  
 14; 6287.8; 16-FEB-2011 10:16:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46876  
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5; 3509.4; 21-FEB-2011 08:06:55; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46946
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7; 4040.1; 21-FEB-2011 08:15:46; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;46946

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9; 4743.6; 21-FEB-2011 10:07:43; Bright; 55.0; 168; 17Zet Aql ; 2.99; 11000;occ; 110; 0;46947  
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3; 2333.6; 21-FEB-2011 17:48:43; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;46952  
4; 3018.9; 21-FEB-2011 18:00:09; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;46952



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 33; 6970.1; 22-FEB-2011 03:27:10; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;46958  
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 9; -475.0; 22-FEB-2011 04:43:33; Dark ; 45.0; 116; 19Del Sgr ; 2.70; 4100;occ; 90; 0;46958  
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 5; 3504.4; 22-FEB-2011 09:10:20; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;46961  
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 22; 6977.0; 23-FEB-2011 09:31:29; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;46976  
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 21; 6831.1; 24-FEB-2011 18:53:43; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;46996  
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 33; 9005.8; 25-FEB-2011 03:51:08; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;47001  
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