

GOMOS Daily Report 18-JAN-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	21JAN2009 05:44:10
Data source version	GOMOS/5.00
Start time of products	18JAN2009 00:00:59
Stop time of products	18JAN2009 03:03:10
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

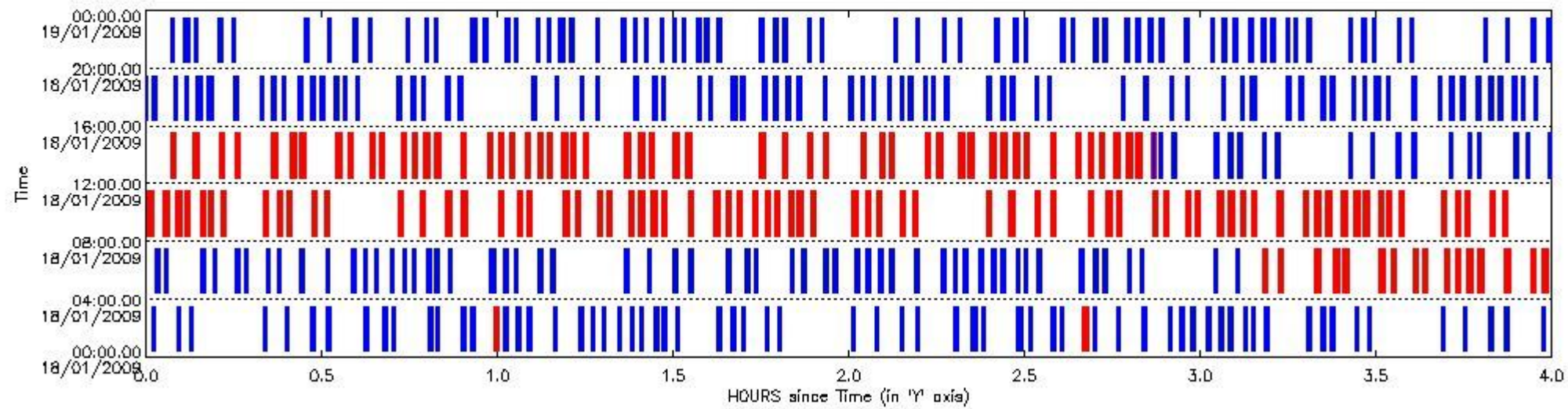
2.1 Level 0 products arrived in PCF (see template [here](#))

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
18-JAN-2009 00:59:14	GamLup	131	35999
18-JAN-2009 02:39:51	GamLup	131	36000
18-JAN-2009 07:10:33	14EtaDra	119	36003
18-JAN-2009 07:13:14	23BetDra	130	36003
18-JAN-2009 07:19:34	40ZetHer	133	36003
18-JAN-2009 07:22:44	27BetHer	127	36003
18-JAN-2009 07:24:24	55AlpOph	59	36003
18-JAN-2009 07:30:32	1DelOph	120	36003
18-JAN-2009 07:32:34	35EtaOph	86	36003
18-JAN-2009 07:36:19	21AlpSco	16	36003
18-JAN-2009 07:37:55	26EpsSco	75	36003
18-JAN-2009 07:41:40	GamLup	131	36003
18-JAN-2009 07:43:31	BetLup	109	36003
18-JAN-2009 07:45:32	DSA1027	0	36003
18-JAN-2009 07:47:27	Alp1Cen	4	36004

18-JAN-2009 07:51:54	Alp1Cru	12	36004
18-JAN-2009 07:56:20	BetCar	29	36004
18-JAN-2009 07:58:21	lotCar	71	36004
18-JAN-2009 08:00:12	DelVel	46	36004
18-JAN-2009 08:02:53	Gam2Vel	34	36004
18-JAN-2009 08:05:01	ZetPup	70	36004
18-JAN-2009 08:06:37	PiPup	117	36004
18-JAN-2009 08:09:09	21EpsCMa	23	36004
18-JAN-2009 08:10:33	24Omi2CMa	179	36004
18-JAN-2009 08:12:45	9AlpCMa	1	36004
18-JAN-2009 08:19:54	58AlpOri	14	36004
18-JAN-2009 08:22:16	24GamGem	44	36004
18-JAN-2009 08:24:01	13MuGem	151	36004
18-JAN-2009 08:28:11	37TheAur	107	36004
18-JAN-2009 08:30:21	34BetAur	42	36004
18-JAN-2009 08:42:55	1AlpUMi	49	36004
18-JAN-2009 08:46:45	7BetUMi	60	36004
18-JAN-2009 08:51:09	14EtaDra	119	36004
18-JAN-2009 08:53:50	23BetDra	130	36004
18-JAN-2009 09:00:10	40ZetHer	133	36004
18-JAN-2009 09:03:20	27BetHer	127	36004
18-JAN-2009 09:05:00	55AlpOph	59	36004
18-JAN-2009 09:11:08	1DelOph	120	36004
18-JAN-2009 09:13:10	35EtaOph	86	36004
18-JAN-2009 09:16:55	21AlpSco	16	36004
18-JAN-2009 09:18:32	26EpsSco	75	36004
18-JAN-2009 09:22:17	GamLup	131	36004
18-JAN-2009 09:24:08	BetLup	109	36004
18-JAN-2009 09:26:08	DSA1027	0	36004
18-JAN-2009 09:28:03	Alp1Cen	4	36005
18-JAN-2009 09:32:31	Alp1Cru	12	36005
18-JAN-2009 09:36:57	BetCar	29	36005
18-JAN-2009 09:38:58	lotCar	71	36005
18-JAN-2009 09:40:49	DelVel	46	36005
18-JAN-2009 09:43:29	Gam2Vel	34	36005
18-JAN-2009 09:45:37	ZetPup	70	36005
18-JAN-2009 09:47:14	PiPup	117	36005
18-JAN-2009 09:49:45	21EpsCMa	23	36005
18-JAN-2009 09:51:09	24Omi2CMa	179	36005
18-JAN-2009 09:53:21	9AlpCMa	1	36005
18-JAN-2009 10:00:30	58AlpOri	14	36005
18-JAN-2009 10:02:52	24GamGem	44	36005
18-JAN-2009 10:04:37	13MuGem	151	36005
18-JAN-2009 10:08:47	37TheAur	107	36005
18-JAN-2009 10:10:57	34BetAur	42	36005
18-JAN-2009 10:23:31	1AlpUMi	49	36005
18-JAN-2009 10:27:21	7BetUMi	60	36005
18-JAN-2009 10:31:45	14EtaDra	119	36005
18-JAN-2009 10:34:26	23BetDra	130	36005
18-JAN-2009 10:40:46	40ZetHer	133	36005
18-JAN-2009 10:43:56	27BetHer	127	36005
18-JAN-2009 10:45:37	55AlpOph	59	36005
18-JAN-2009 10:51:45	1DelOph	120	36005
18-JAN-2009 10:53:46	35EtaOph	86	36005
18-JAN-2009 10:57:31	21AlpSco	16	36005
18-JAN-2009 10:59:08	26EpsSco	75	36005
18-JAN-2009 11:02:53	GamLup	131	36005
18-JAN-2009 11:04:44	BetLup	109	36005
18-JAN-2009 11:06:45	DSA1027	0	36005

18-JAN-2009 11:08:40	Alp1Cen	4	36006
18-JAN-2009 11:13:07	Alp1Cru	12	36006
18-JAN-2009 11:17:33	BetCar	29	36006
18-JAN-2009 11:19:34	lotCar	71	36006
18-JAN-2009 11:21:25	DelVel	46	36006
18-JAN-2009 11:24:06	Gam2Vel	34	36006
18-JAN-2009 11:26:13	ZetPup	70	36006
18-JAN-2009 11:27:50	PiPup	117	36006
18-JAN-2009 11:30:21	21EpsCMA	23	36006
18-JAN-2009 11:31:45	24Omi2CMA	179	36006
18-JAN-2009 11:33:57	9AlpCMA	1	36006
18-JAN-2009 11:41:06	58AlpOri	14	36006
18-JAN-2009 11:43:28	24GamGem	44	36006
18-JAN-2009 11:45:12	13MuGem	151	36006
18-JAN-2009 11:49:23	37TheAur	107	36006
18-JAN-2009 11:51:33	34BetAur	42	36006
18-JAN-2009 12:04:07	1AlpUMi	49	36006
18-JAN-2009 12:07:56	7BetUMi	60	36006
18-JAN-2009 12:12:21	14EtaDra	119	36006
18-JAN-2009 12:15:02	23BetDra	130	36006
18-JAN-2009 12:21:22	40ZetHer	133	36006
18-JAN-2009 12:24:32	27BetHer	127	36006
18-JAN-2009 12:26:13	55AlpOph	59	36006
18-JAN-2009 12:32:21	1DelOph	120	36006
18-JAN-2009 12:34:22	35EtaOph	86	36006
18-JAN-2009 12:38:08	21AlpSco	16	36006
18-JAN-2009 12:39:44	26EpsSco	75	36006
18-JAN-2009 12:43:30	GamLup	131	36006
18-JAN-2009 12:45:21	BetLup	109	36006
18-JAN-2009 12:47:21	DSA1027	0	36006
18-JAN-2009 12:49:16	Alp1Cen	4	36007
18-JAN-2009 12:53:44	Alp1Cru	12	36007
18-JAN-2009 12:58:09	BetCar	29	36007
18-JAN-2009 13:00:10	lotCar	71	36007
18-JAN-2009 13:02:01	DelVel	46	36007
18-JAN-2009 13:04:42	Gam2Vel	34	36007
18-JAN-2009 13:06:50	ZetPup	70	36007
18-JAN-2009 13:08:26	PiPup	117	36007
18-JAN-2009 13:10:57	21EpsCMA	23	36007
18-JAN-2009 13:12:21	24Omi2CMA	179	36007
18-JAN-2009 13:14:33	9AlpCMA	1	36007
18-JAN-2009 13:21:42	58AlpOri	14	36007
18-JAN-2009 13:24:04	24GamGem	44	36007
18-JAN-2009 13:25:48	13MuGem	151	36007
18-JAN-2009 13:29:59	37TheAur	107	36007
18-JAN-2009 13:32:09	34BetAur	42	36007
18-JAN-2009 13:44:43	1AlpUMi	49	36007
18-JAN-2009 13:48:32	7BetUMi	60	36007
18-JAN-2009 13:52:57	14EtaDra	119	36007
18-JAN-2009 13:55:38	23BetDra	130	36007
18-JAN-2009 14:01:58	40ZetHer	133	36007
18-JAN-2009 14:05:08	27BetHer	127	36007
18-JAN-2009 14:06:49	55AlpOph	59	36007
18-JAN-2009 14:12:58	1DelOph	120	36007
18-JAN-2009 14:14:58	35EtaOph	86	36007
18-JAN-2009 14:18:44	21AlpSco	16	36007
18-JAN-2009 14:20:20	26EpsSco	75	36007
18-JAN-2009 14:24:06	GamLup	131	36007
18-JAN-2009 14:25:58	BetLup	109	36007

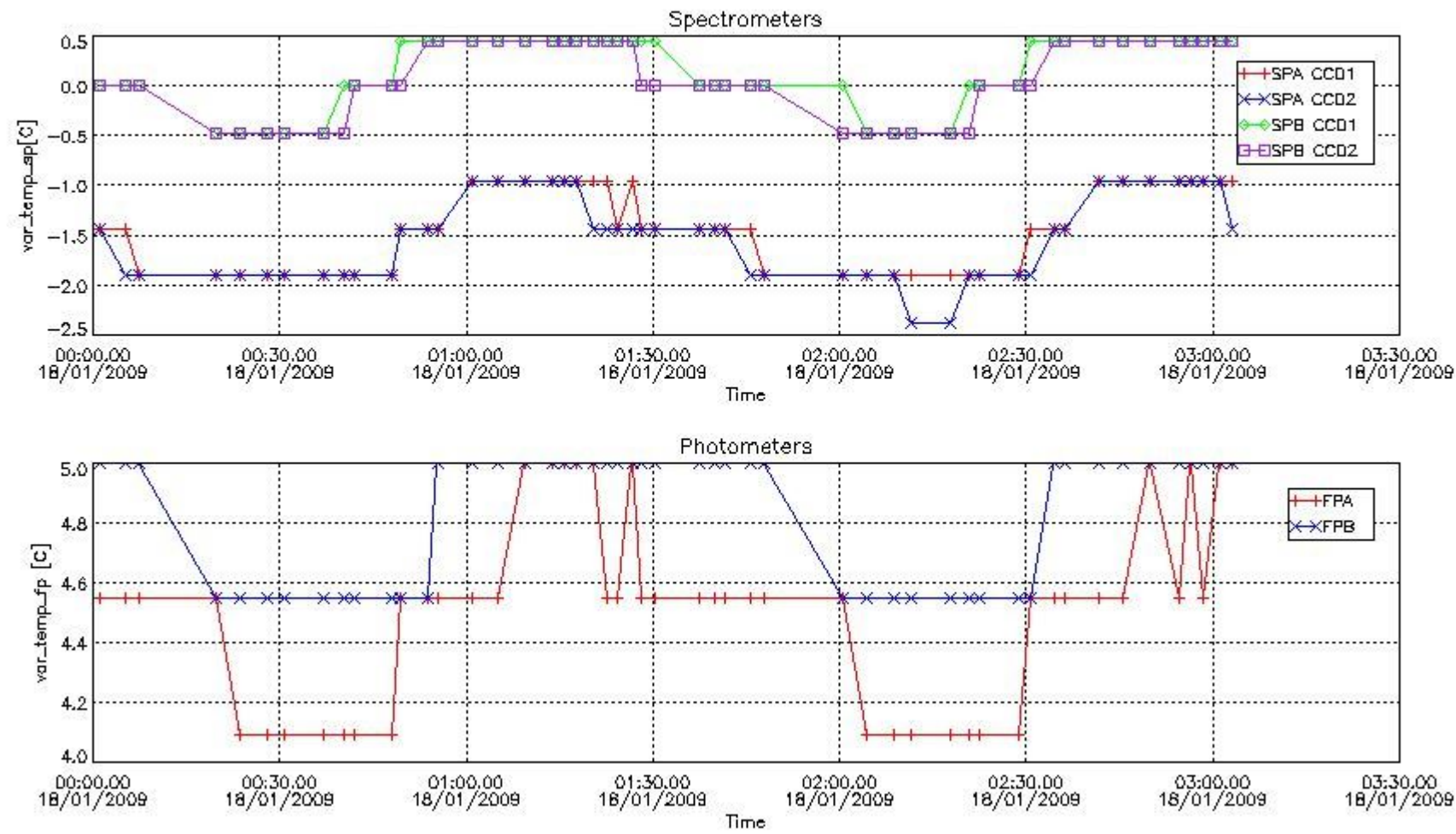
18-JAN-2009 14:27:58	DSA1027	0	36007
18-JAN-2009 14:29:52	Alp1Cen	4	36008
18-JAN-2009 14:34:20	Alp1Cru	12	36008
18-JAN-2009 14:38:45	BetCar	29	36008
18-JAN-2009 14:40:47	lotCar	71	36008
18-JAN-2009 14:42:38	DelVel	46	36008
18-JAN-2009 14:45:18	Gam2Vel	34	36008
18-JAN-2009 14:47:26	ZetPup	70	36008
18-JAN-2009 14:49:02	PiPup	117	36008
18-JAN-2009 14:51:33	21EpsCMa	23	36008

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_1PNPDE20090118_000059_000000392075_00374_35999_1659.N1	18-JAN-2009 00:00:59	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	35999	No
2	GOM_TRA_1PNPDE20090118_000059_000000362075_00374_35999_1660.N1	18-JAN-2009 00:05:09	Bright	36.000	107	37The Aur	2.6490	11000.	72	35999	No
3	GOM_TRA_1PNPDE20090118_0000719_000000372075_00374_35999_1661.N1	18-JAN-2009 00:07:19	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	35999	No
4	GOM_TRA_1PNPDE20090118_001953_000000362075_00374_35999_1662.N1	18-JAN-2009 00:19:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	35999	No
5	GOM_TRA_1PNPDE20090118_002344_000000372075_00374_35999_1663.N1	18-JAN-2009 00:23:44	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	35999	No
6	GOM_TRA_1PNPDE20090118_002807_000000392075_00374_35999_1664.N1	18-JAN-2009 00:28:07	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	35999	No
7	GOM_TRA_1PNPDE20090118_003048_000000362075_00374_35999_1665.N1	18-JAN-2009 00:30:48	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	35999	No
8	GOM_TRA_1PNPDE20090118_003707_000000552075_00374_35999_1666.N1	18-JAN-2009 00:37:07	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	35999	No
9	GOM_TRA_1PNPDE20090118_004017_000000562075_00374_35999_1667.N1	18-JAN-2009 00:40:17	Bright	56.000	127	27Bet Her	2.7810	4700.0	112	35999	No
10	GOM_TRA_1PNPDE20090118_004157_000000402075_00374_35999_1668.N1	18-JAN-2009 00:41:57	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	35999	No
11	GOM_TRA_1PNPDE20090118_004804_000000452075_00374_35999_1669.N1	18-JAN-2009 00:48:04	Bright	45.000	120	1Del Oph	2.7340	3200.0	90	35999	No
12	GOM_TRA_1PNPDE20090118_004923_000000352075_00374_35999_1670.N1	18-JAN-2009 00:49:23	Bright	35.000	98	13Zet Oph	2.5710	30000.	70	35999	No
13	GOM_TRA_1PNPDE20090118_005351_000000452075_00374_35999_1782.N1	18-JAN-2009 00:53:51	Twilight	45.000	16	21Alp Sco	1.0200	3000.0	90	35999	No
14	GOM_TRA_1PNPDE20090118_005528_000000422075_00374_35999_1783.N1	18-JAN-2009 00:55:28	Twilight	41.500	75	26Eps Sco	2.2910	4250.0	83	35999	No
15	GOM_TRA_1PNPDE20090118_010102_000000422075_00374_35999_1784.N1	18-JAN-2009 01:01:02	Dark	41.500	109	Bet Lup	2.6770	26000.	83	35999	No
16	GOM_TRA_1PNPDE20090118_010459_000000422075_00375_36000_1785.N1	18-JAN-2009 01:04:59	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	36000	No
17	GOM_TRA_1PNPDE20090118_010926_000000412075_00375_36000_1786.N1	18-JAN-2009 01:09:26	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	36000	No
18	GOM_TRA_1PNPDE20090118_011353_000000432075_00375_36000_1787.N1	18-JAN-2009 01:13:53	Dark	43.000	29	Bet Car	1.6720	10200.	86	36000	No
19	GOM_TRA_1PNPDE20090118_011554_000000402075_00375_36000_1788.N1	18-JAN-2009 01:15:54	Dark	39.500	71	lot Car	2.2460	7700.0	79	36000	No
20	GOM_TRA_1PNPDE20090118_011744_000000382075_00375_36000_1789.N1	18-JAN-2009 01:17:44	Dark	38.000	46	Del Vel	1.9540	10600.	76	36000	No
21	GOM_TRA_1PNPDE20090118_012026_000000412075_00375_36000_1790.N1	18-JAN-2009 01:20:26	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	36000	No
22	GOM_TRA_1PNPDE20090118_012233_000000432075_00375_36000_1791.N1	18-JAN-2009 01:22:33	Dark	43.000	70	Zet Pup	2.2460	39000.	86	36000	No
23	GOM_TRA_1PNPDE20090118_012410_000000452075_00375_36000_1792.N1	18-JAN-2009 01:24:10	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	36000	No
24	GOM_TRA_1PNPDE20090118_012642_000000432075_00375_36000_1793.N1	18-JAN-2009 01:26:42	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	36000	No
25	GOM_TRA_1PNPDE20090118_012806_000000402075_00375_36000_1794.N1	18-JAN-2009 01:28:06	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	36000	No
26	GOM_TRA_1PNPDE20090118_013018_000000452075_00375_36000_1795.N1	18-JAN-2009 01:30:18	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	36000	No
27	GOM_TRA_1PNPDE20090118_013727_000000522075_00375_36000_1796.N1	18-JAN-2009 01:37:27	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	36000	No
28	GOM_TRA_1PNPDE20090118_013951_000000532075_00375_36000_1797.N1	18-JAN-2009 01:39:51	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	36000	No
29	GOM_TRA_1PNPDE20090118_014134_000000422075_00375_36000_1798.N1	18-JAN-2009 01:41:34	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	36000	No
30	GOM_TRA_1PNPDE20090118_014545_000000352075_00375_36000_1799.N1	18-JAN-2009 01:45:45	Bright	35.000	107	37The Aur	2.6490	11000.	70	36000	No
31	GOM_TRA_1PNPDE20090118_014755_000000362075_00375_36000_1800.N1	18-JAN-2009 01:47:55	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	36000	No
32	GOM_TRA_1PNPDE20090118_020029_000000342075_00375_36000_1801.N1	18-JAN-2009 02:00:29	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	36000	No
33	GOM_TRA_1PNPDE20090118_020420_000000352075_00375_36000_1802.N1	18-JAN-2009 02:04:20	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	36000	No
34	GOM_TRA_1PNPDE20090118_020844_000000392075_00375_36000_1803.N1	18-JAN-2009 02:08:44	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	36000	No
35	GOM_TRA_1PNPDE20090118_021124_000000392075_00375_36000_1942.N1	18-JAN-2009 02:11:24	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	36000	No
36	GOM_TRA_1PNPDE20090118_021743_000000552075_00375_36000_1943.N1	18-JAN-2009 02:17:43	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	36000	No
37	GOM_TRA_1PNPDE20090118_022053_000000562075_00375_36000_1944.N1	18-JAN-2009 02:20:53	Bright	56.000	127	27Bet Her	2.7810	4700.0	112	36000	No
38	GOM_TRA_1PNPDE20090118_022234_000000342075_00375_36000_1945.N1	18-JAN-2009 02:22:34	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	36000	No
39	GOM_TRA_1PNPDE20090118_022841_000000532075_00375_36000_1946.N1	18-JAN-2009 02:28:41	Bright	53.000	120	1Del Oph	2.7340	3200.0	106	36000	No
40	GOM_TRA_1PNPDE20090118_023043_000000352075_00375_36000_1947.N1	18-JAN-2009 02:30:43	Bright	35.000	86	35Eta Oph	2.4300	10200.	70	36000	No
41	GOM_TRA_1PNPDE20090118_023428_000000522075_00375_36000_1948.N1	18-JAN-2009 02:34:28	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	36000	No
42	GOM_TRA_1PNPDE20090118_023605_000000392075_00375_36000_1949.N1	18-JAN-2009 02:36:05	Twilight	38.500	75	26Eps Sco	2.2910	4250.0	77	36000	No
43	GOM_TRA_1PNPDE20090118_024139_000000432075_00375_36000_1950.N1	18-JAN-2009 02:41:39	Dark	43.000	109	Bet Lup	2.6770	26000.	86	36000	No
44	GOM_TRA_1PNPDE20090118_024535_000000412075_00376_36001_1951.N1	18-JAN-2009 02:45:35	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	36001	No

45	GOM_TRA_1PNPDE20090118_025003_000000412075_00376_36001_1952.N1	18-JAN-2009 02:50:03	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	36001	No
46	GOM_TRA_1PNPDE20090118_025429_000000392075_00376_36001_1953.N1	18-JAN-2009 02:54:29	Dark	39.000	29	Bet Car	1.6720	10200.	78	36001	No
47	GOM_TRA_1PNPDE20090118_025630_000000432075_00376_36001_1954.N1	18-JAN-2009 02:56:30	Dark	43.000	71	lot Car	2.2460	7700.0	86	36001	No
48	GOM_TRA_1PNPDE20090118_025821_000000442075_00376_36001_1955.N1	18-JAN-2009 02:58:21	Dark	43.500	46	Del Vel	1.9540	10600.	87	36001	No
49	GOM_TRA_1PNPDE20090118_030102_000000422075_00376_36001_1956.N1	18-JAN-2009 03:01:02	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	36001	No
50	GOM_TRA_1PNPDE20090118_030310_000000452075_00376_36001_1957.N1	18-JAN-2009 03:03:10	Dark	44.500	70	Zet Pup	2.2460	39000.	89	36001	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).

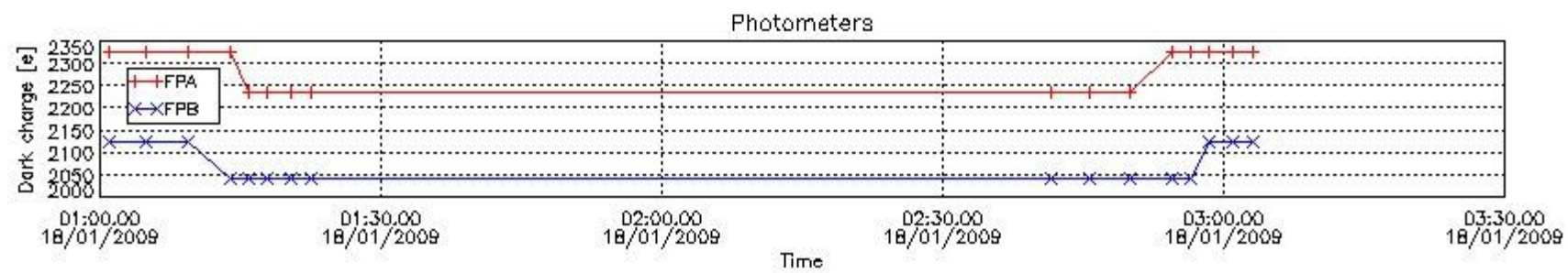
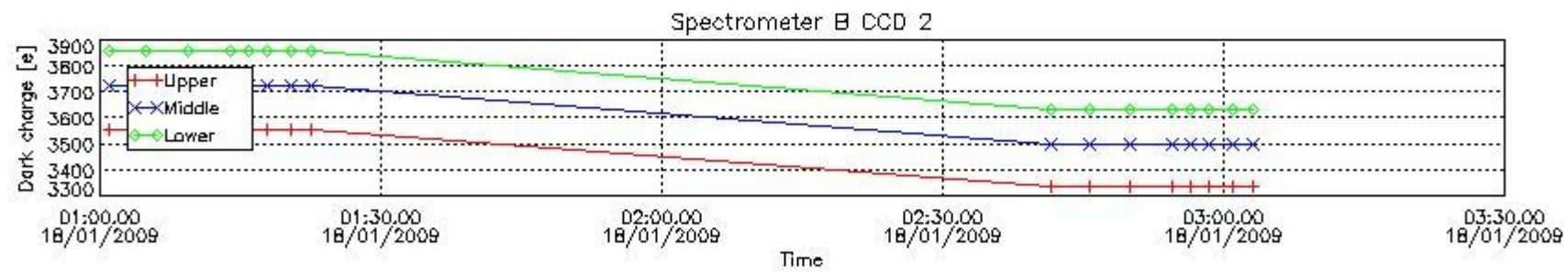
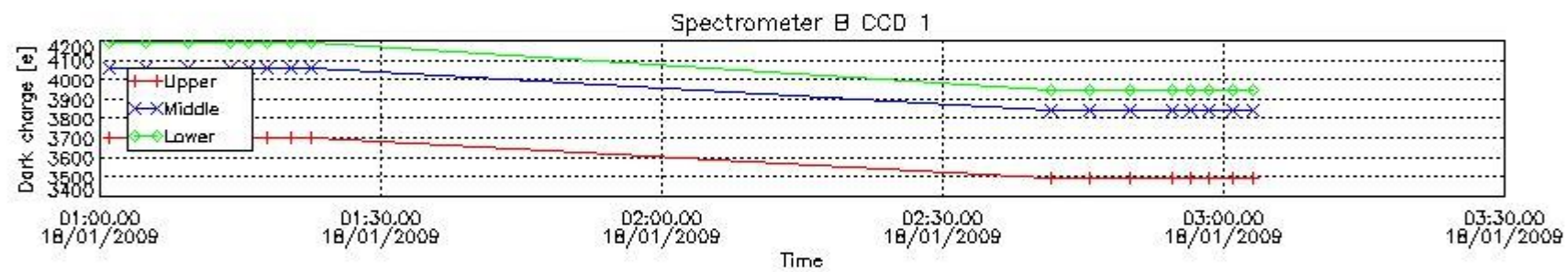
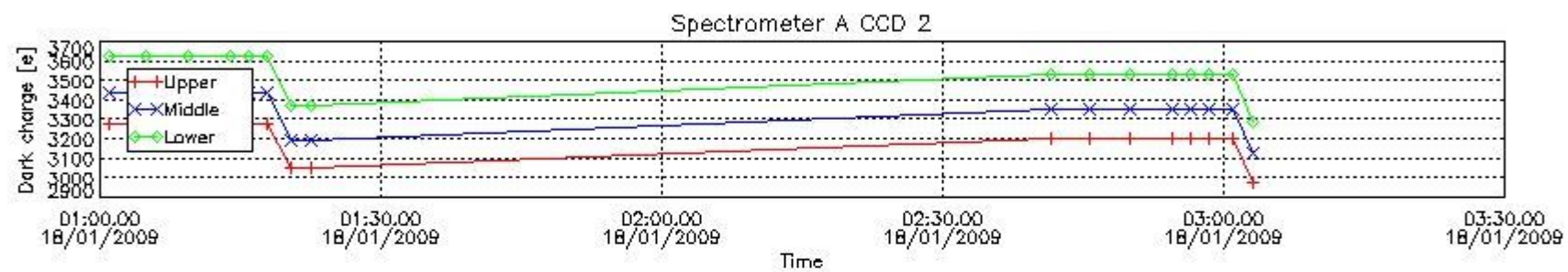
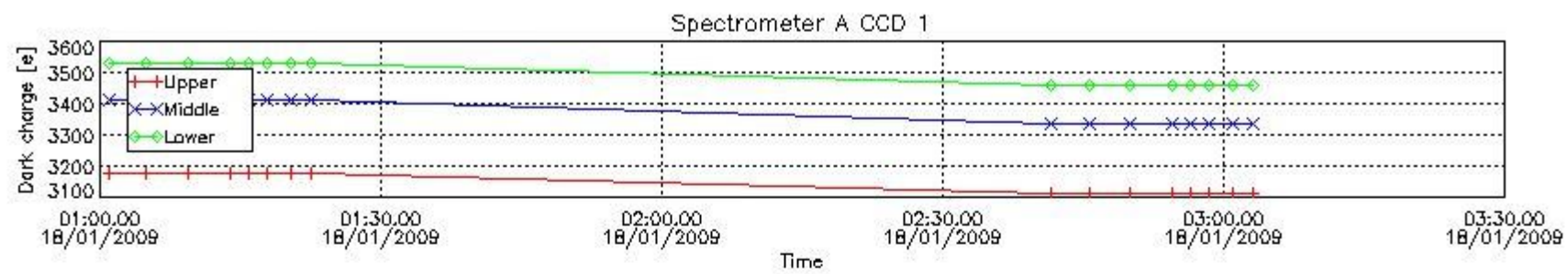
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090118_021124_000000392075_00375_36000_1942.N1	DC map used
GOM_TRA_1PNPDE20090118_021743_000000552075_00375_36000_1943.N1	DC map used
GOM_TRA_1PNPDE20090118_022053_000000562075_00375_36000_1944.N1	DC map used
GOM_TRA_1PNPDE20090118_022234_000000342075_00375_36000_1945.N1	DC map used

GOM_TRA_1PNPDE20090118_022841_000000532075_00375_36000_1946.N1	DC map used
GOM_TRA_1PNPDE20090118_023043_000000352075_00375_36000_1947.N1	DC map used
GOM_TRA_1PNPDE20090118_023428_000000522075_00375_36000_1948.N1	DC map used
GOM_TRA_1PNPDE20090118_023605_000000392075_00375_36000_1949.N1	DC map used
GOM_TRA_1PNPDE20090118_024139_000000432075_00375_36000_1950.N1	DC map used
GOM_TRA_1PNPDE20090118_024535_000000412075_00376_36001_1951.N1	DC map used
GOM_TRA_1PNPDE20090118_025003_000000412075_00376_36001_1952.N1	DC map used
GOM_TRA_1PNPDE20090118_025429_000000392075_00376_36001_1953.N1	DC map used
GOM_TRA_1PNPDE20090118_025630_000000432075_00376_36001_1954.N1	DC map used
GOM_TRA_1PNPDE20090118_025821_000000442075_00376_36001_1955.N1	DC map used
GOM_TRA_1PNPDE20090118_030102_000000422075_00376_36001_1956.N1	DC map used
GOM_TRA_1PNPDE20090118_030310_000000452075_00376_36001_1957.N1	DC map used

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



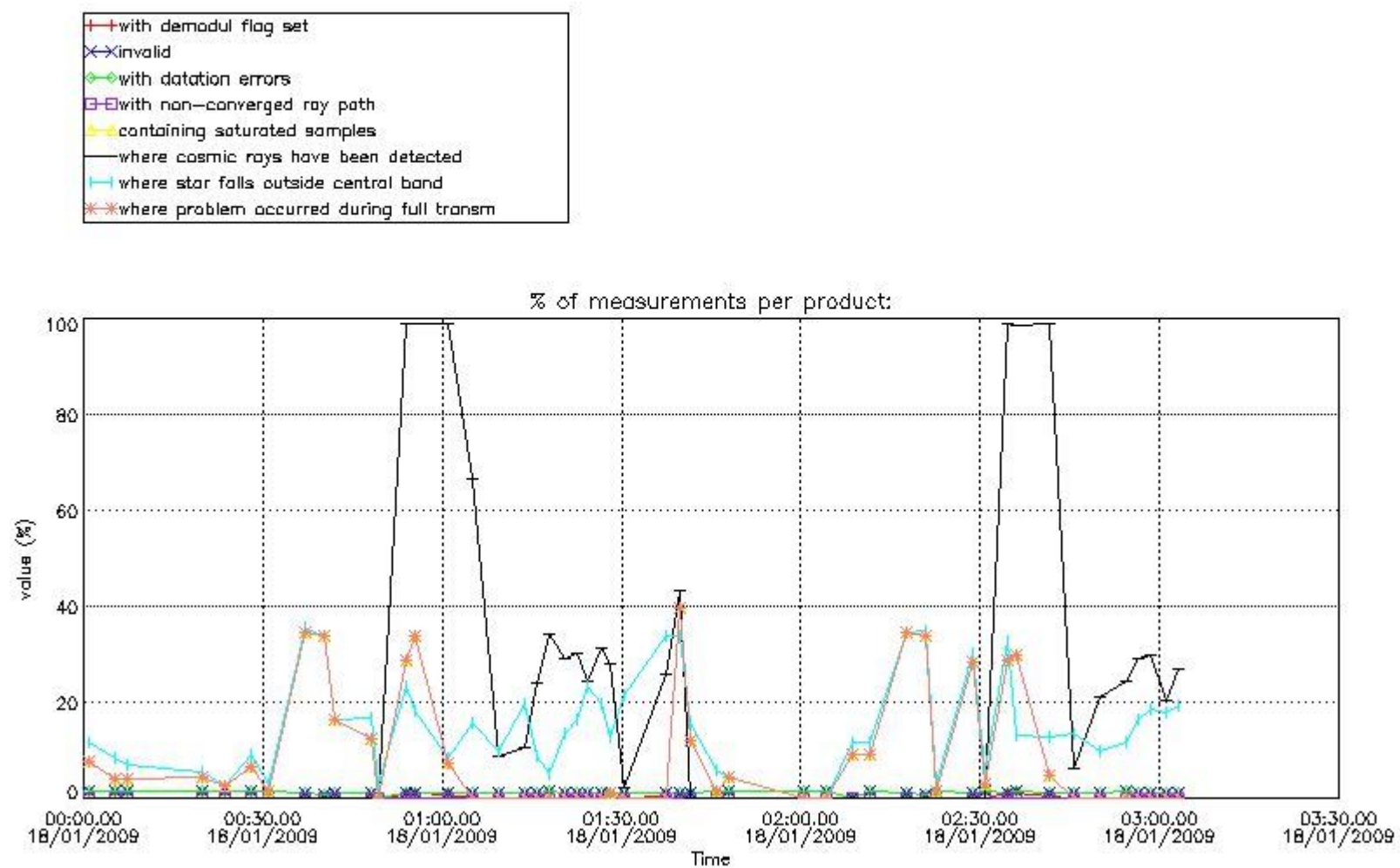
5. Demodulation flag and quality information monitoring

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.

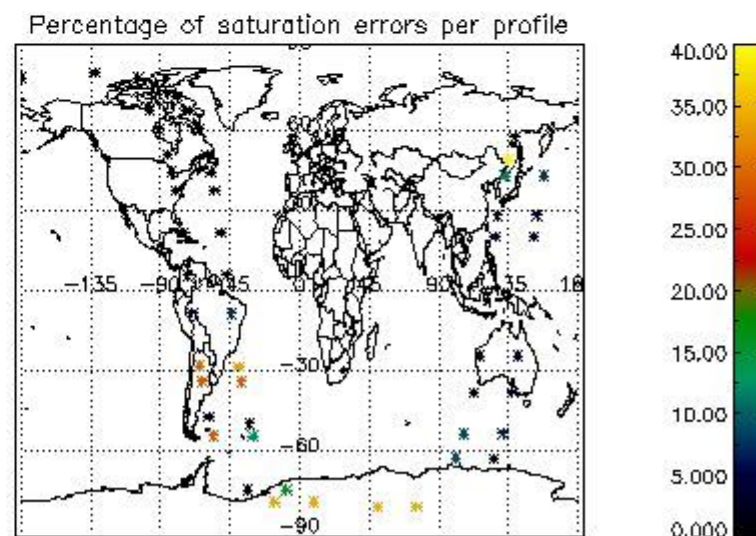
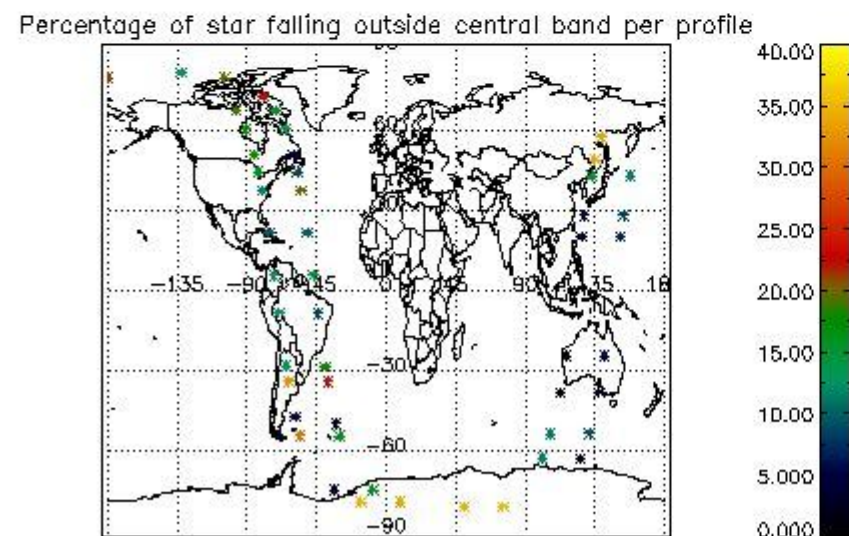
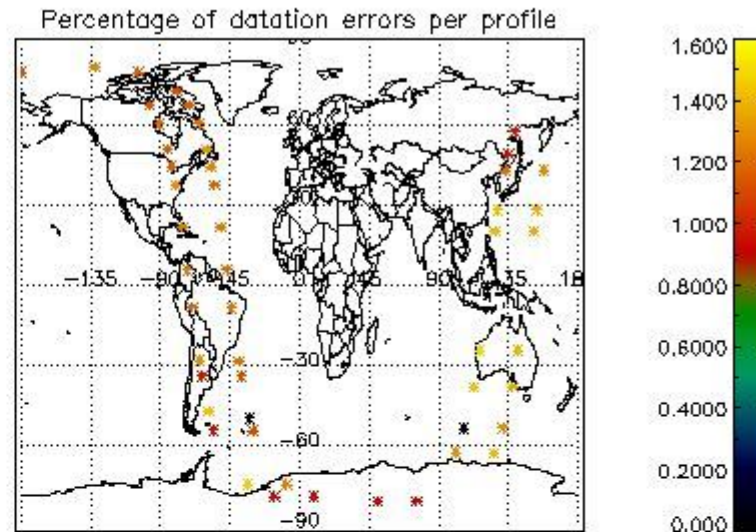
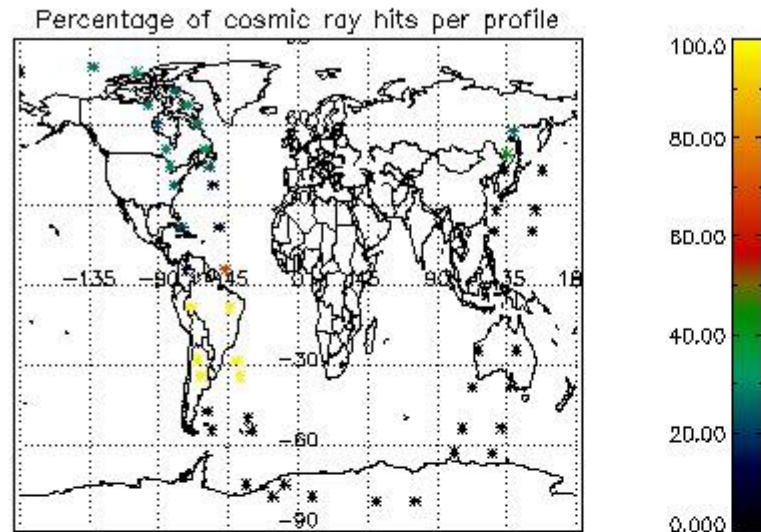
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.0000 %
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)



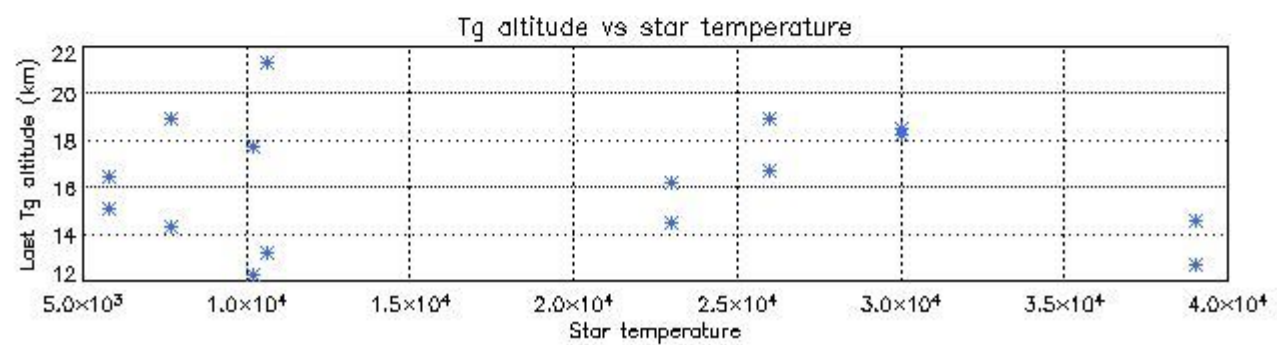
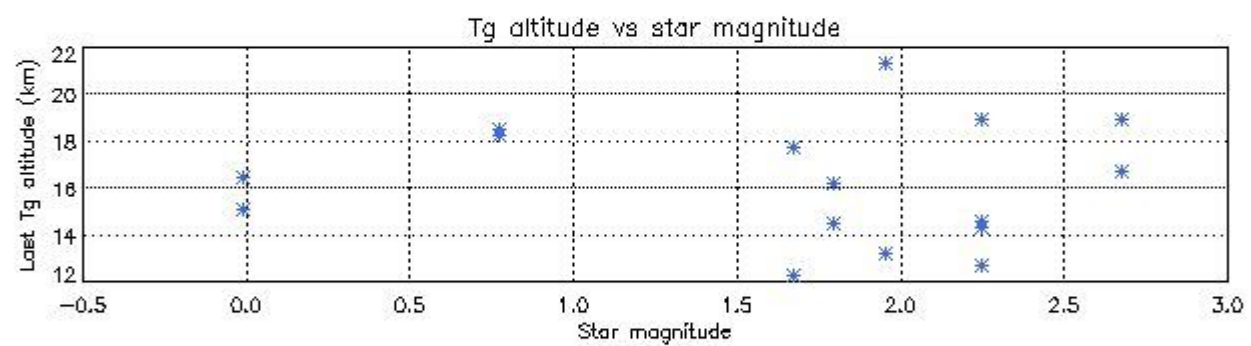
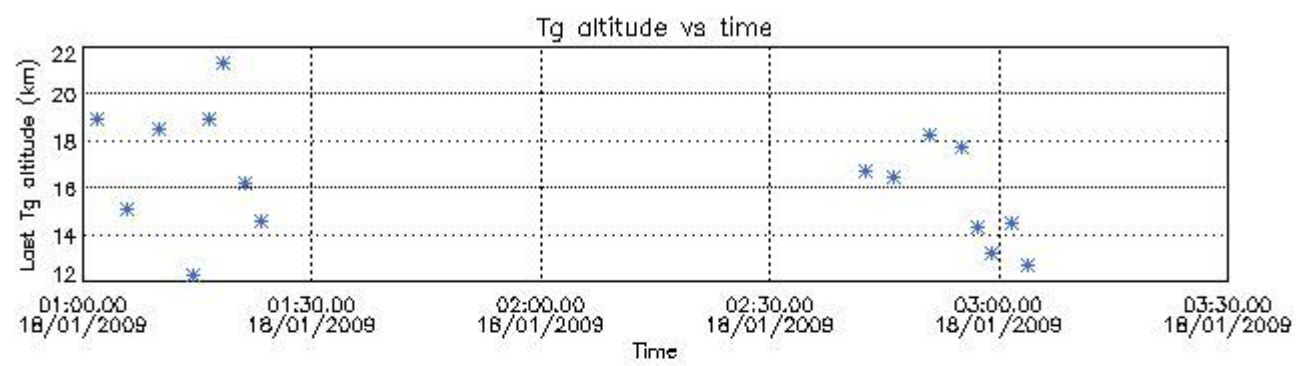
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.213	16.638	11.061
St. deviation:	2.5980	7.6915	4.6286
Maximum:	21.292	27.840	15.353
Minimum:	12.216	4.3797	4.7640
Number of data:	16.000	25.000	4.0000

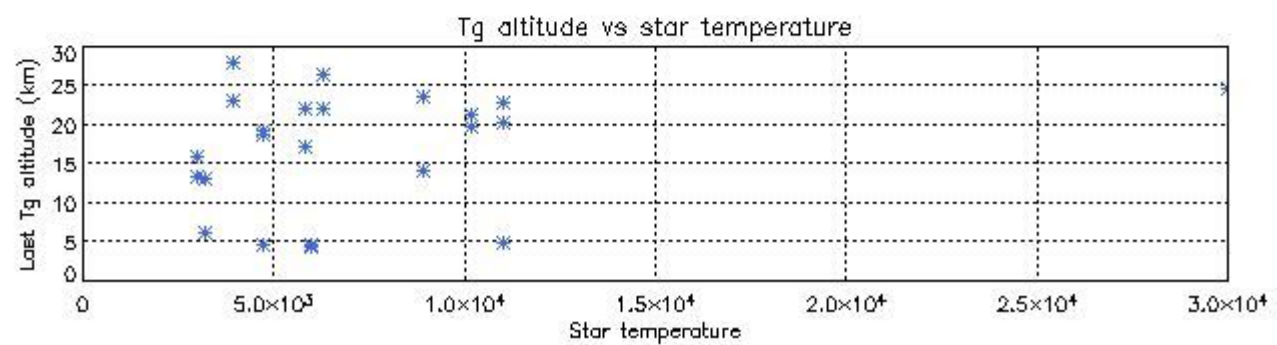
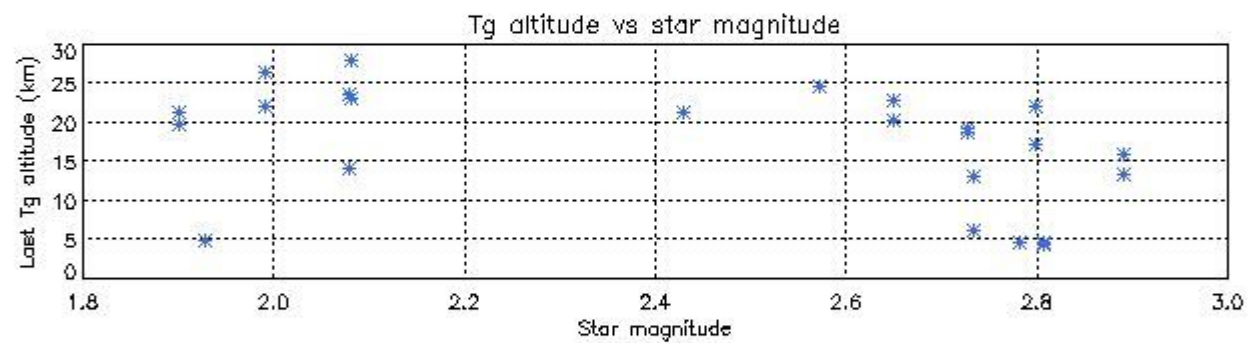
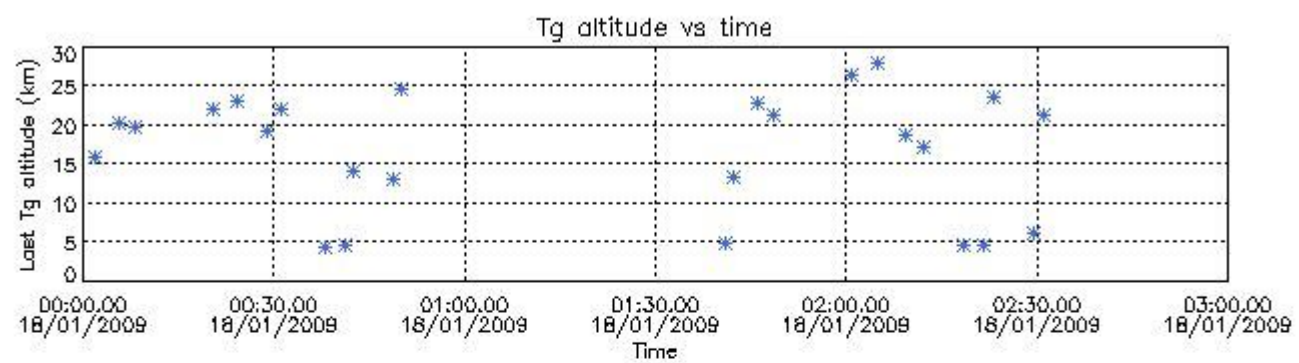
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



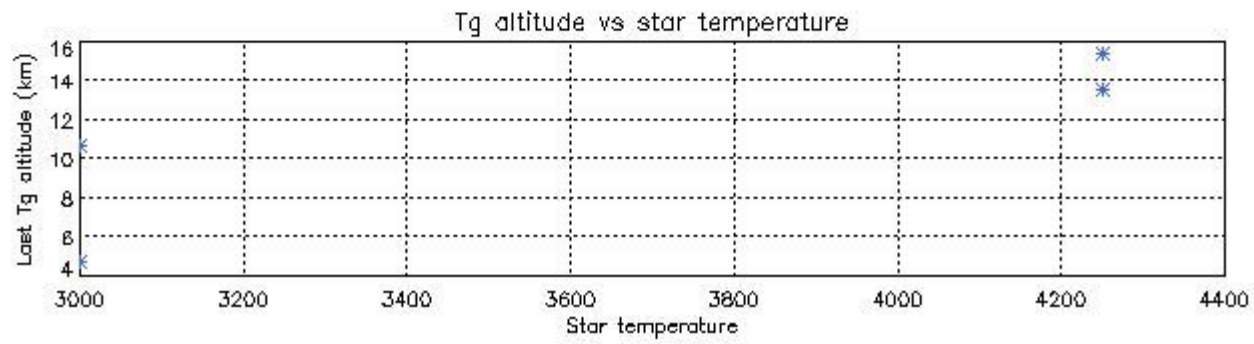
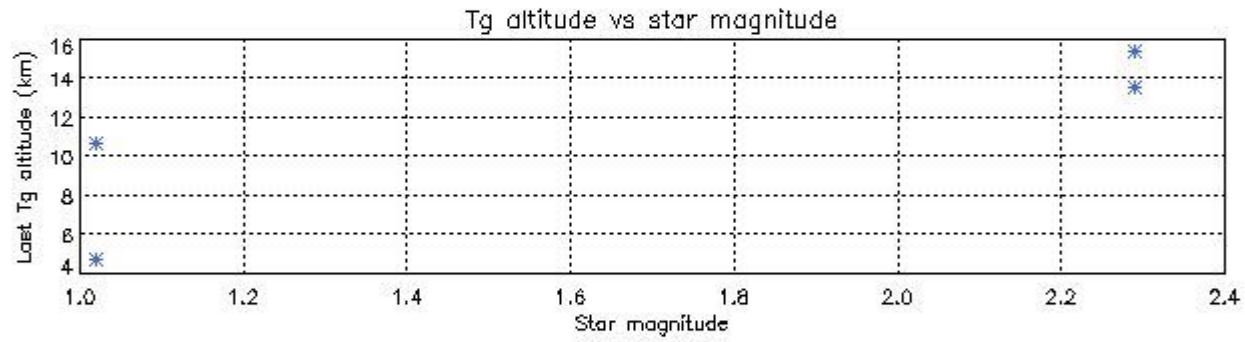
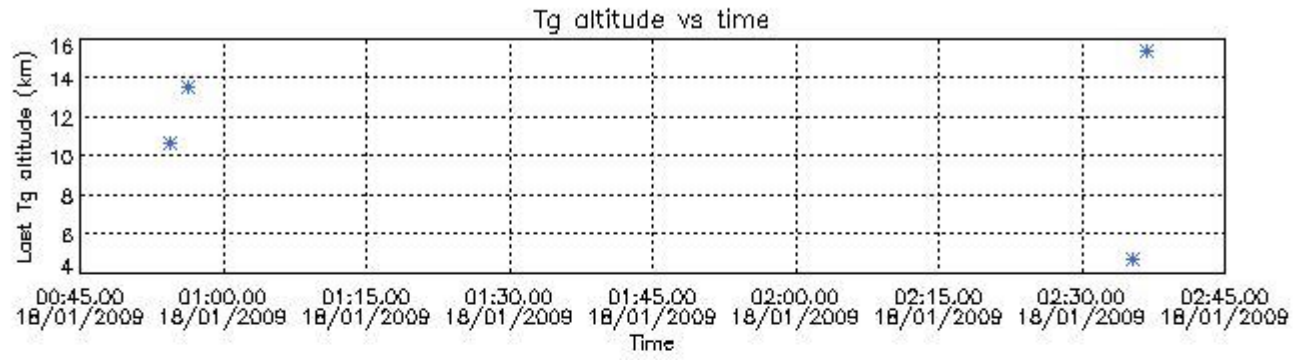
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

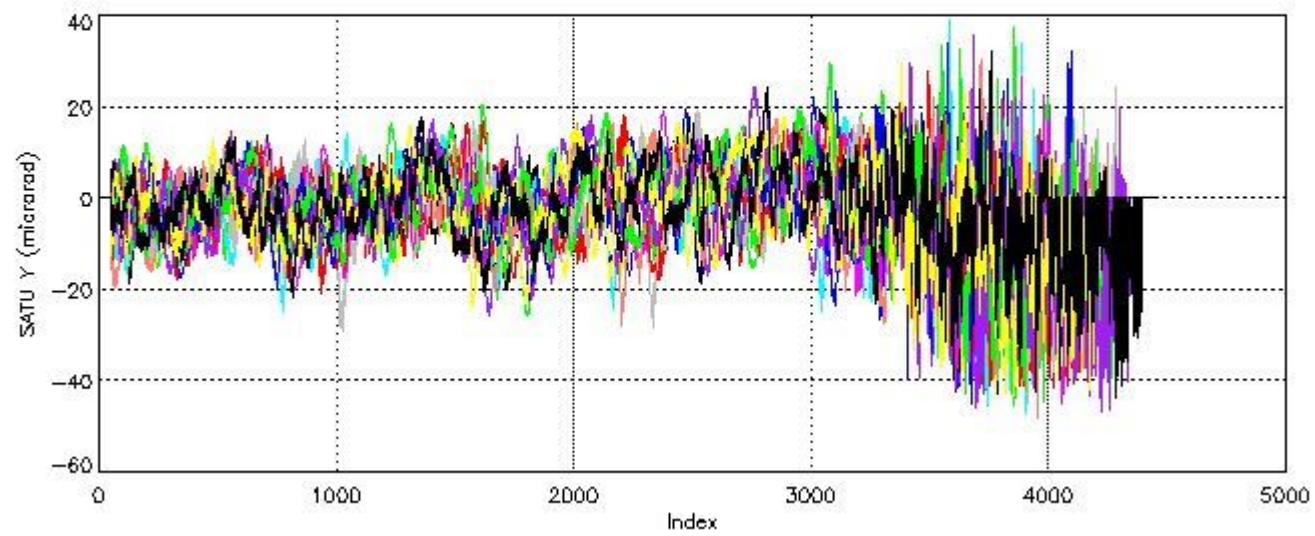
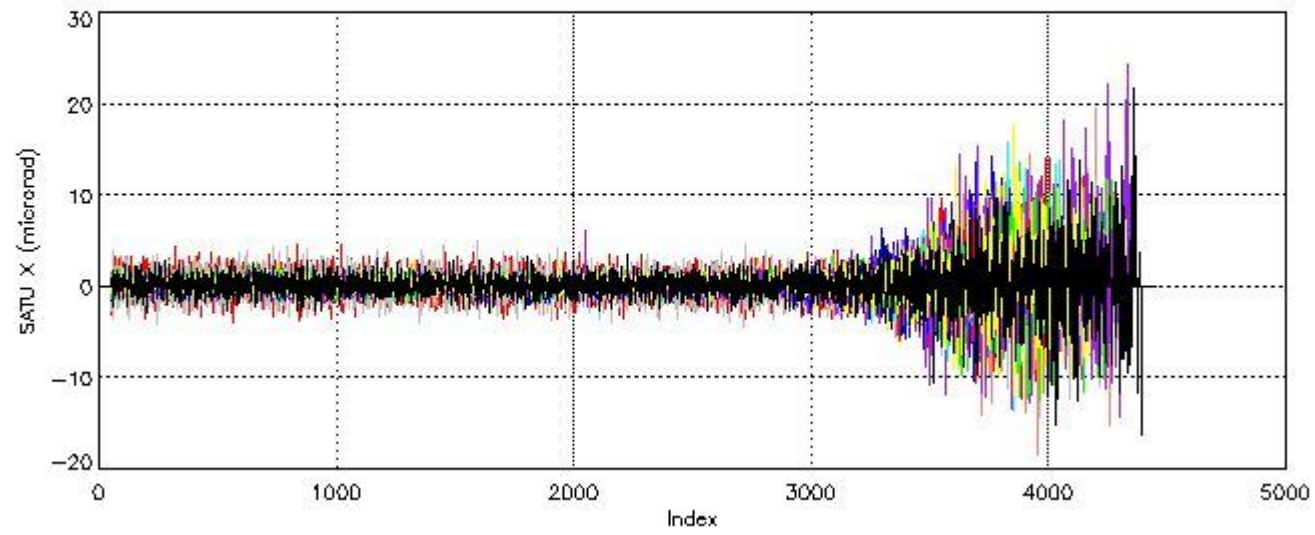


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11936	-2.3354	0.032811	-1.3555
St. deviation:	0.64183	5.7720	0.71430	5.2716
Maximum:	4.5000	14.500	5.1000	18.900
Minimum:	-4.3000	-25.000	-4.0000	-22.700

Number of data:	14950.	14950.	21600.	21600.
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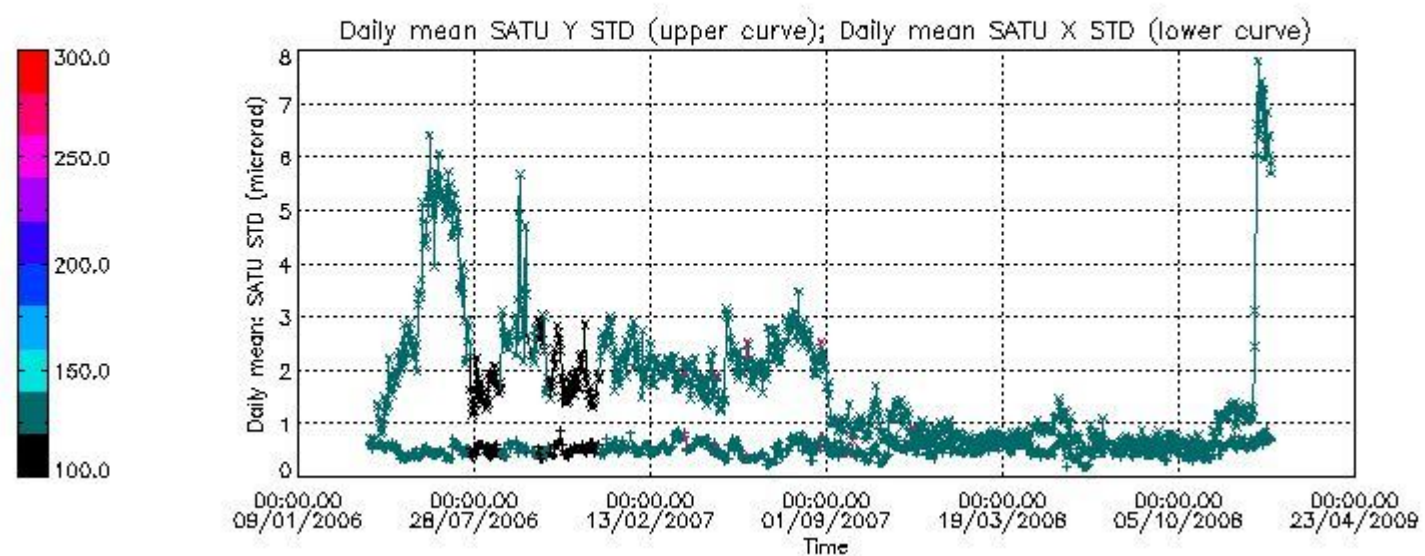
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

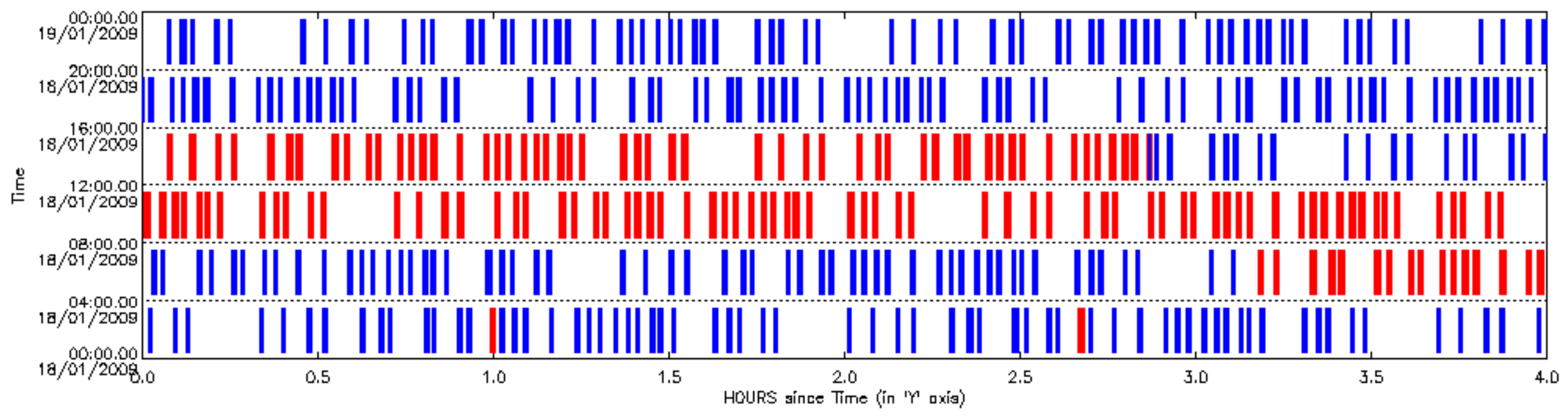
Lower curve: STD of SATU X axis

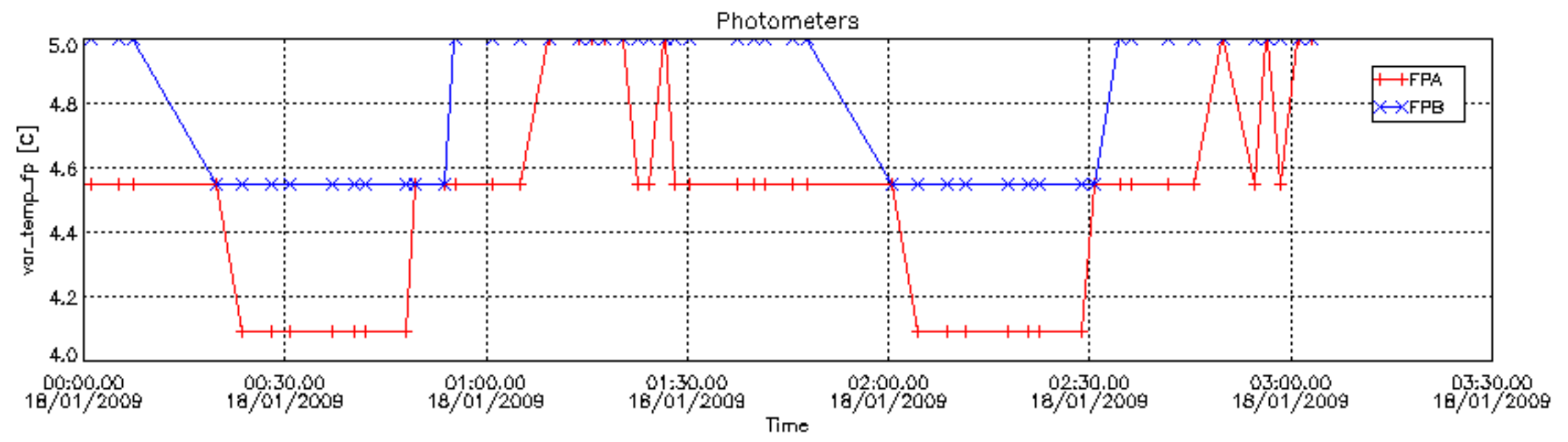
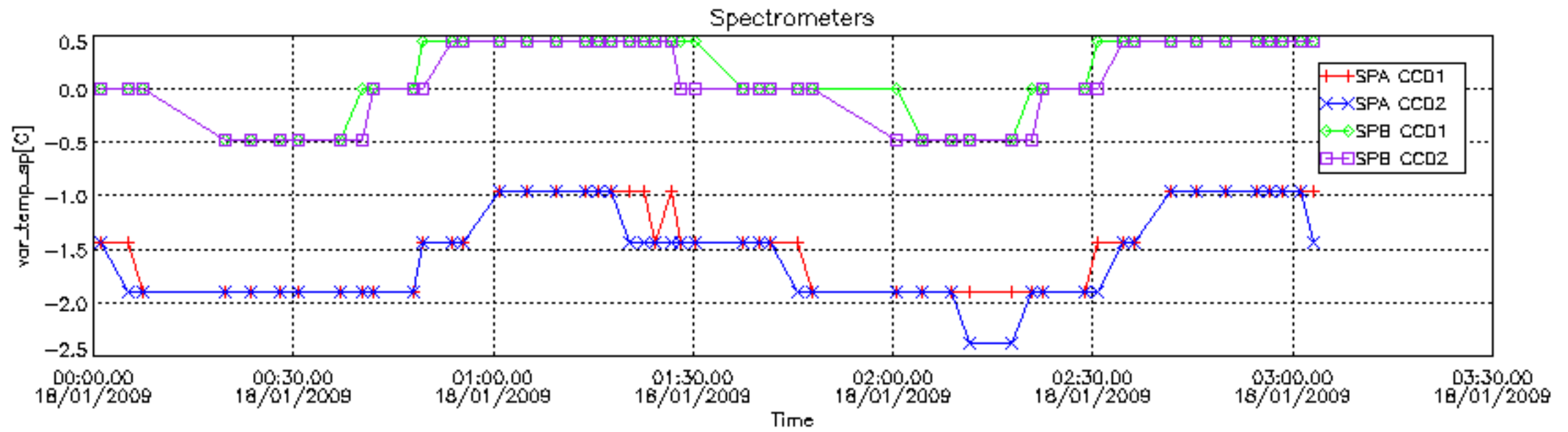


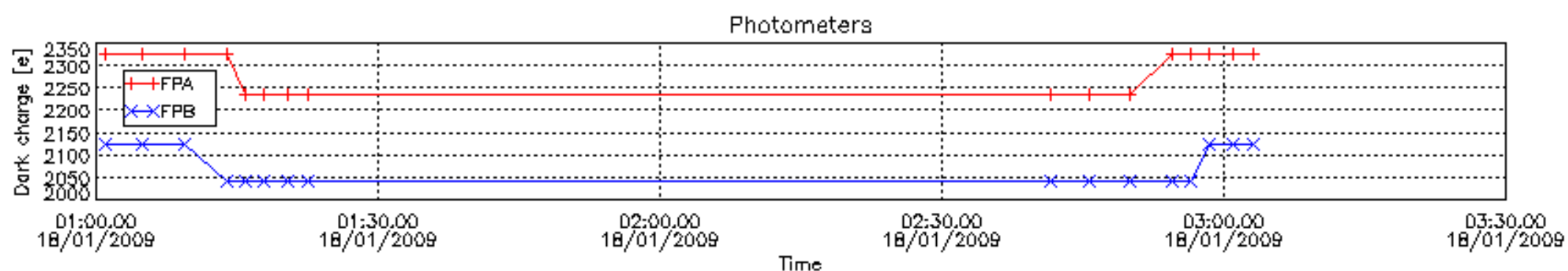
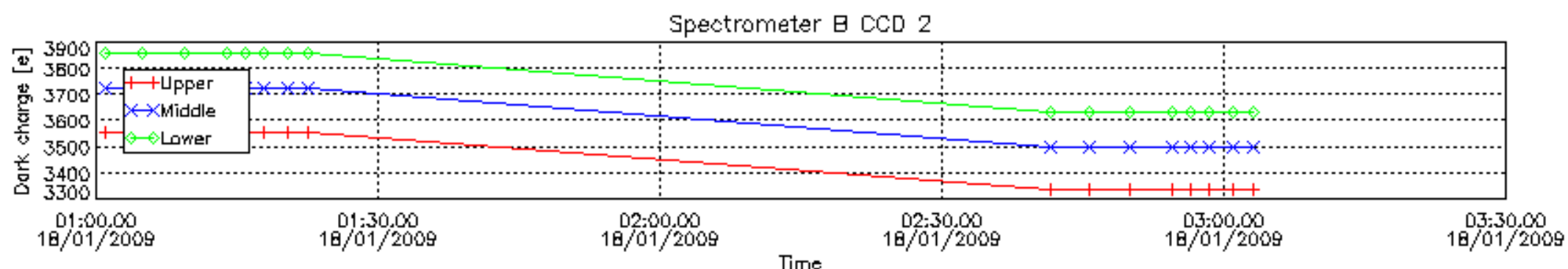
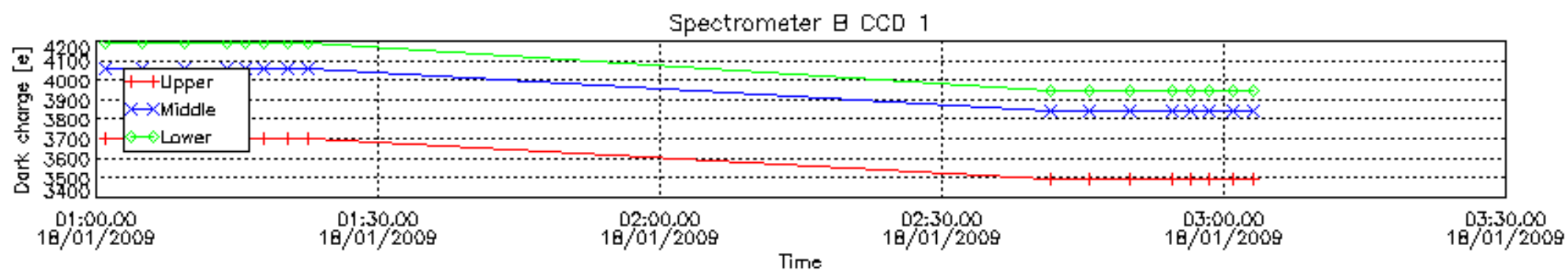
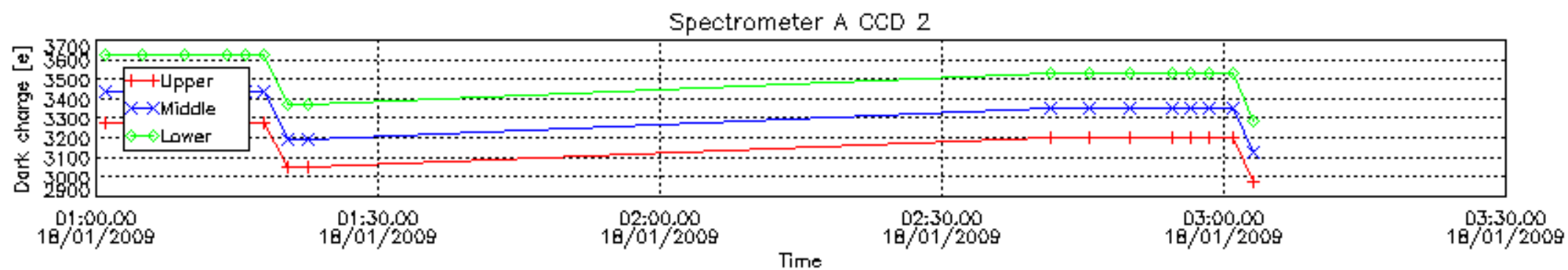
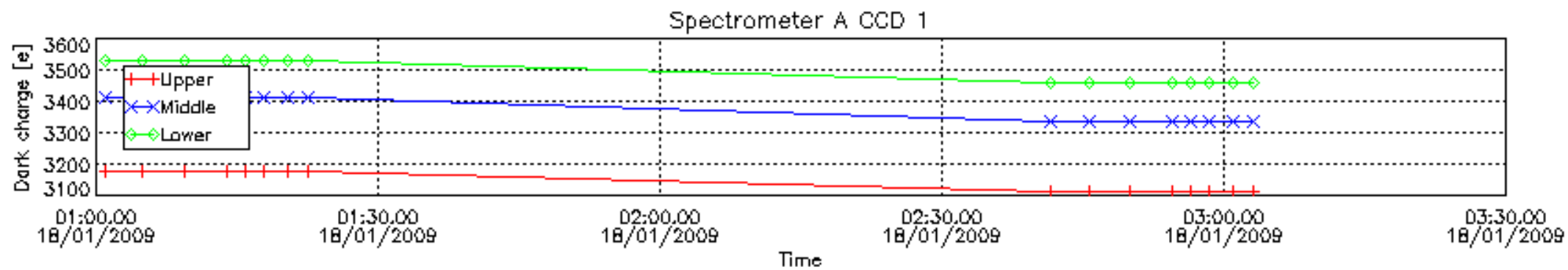
8. Auxiliary Data Files used for the production reported in section 2.4

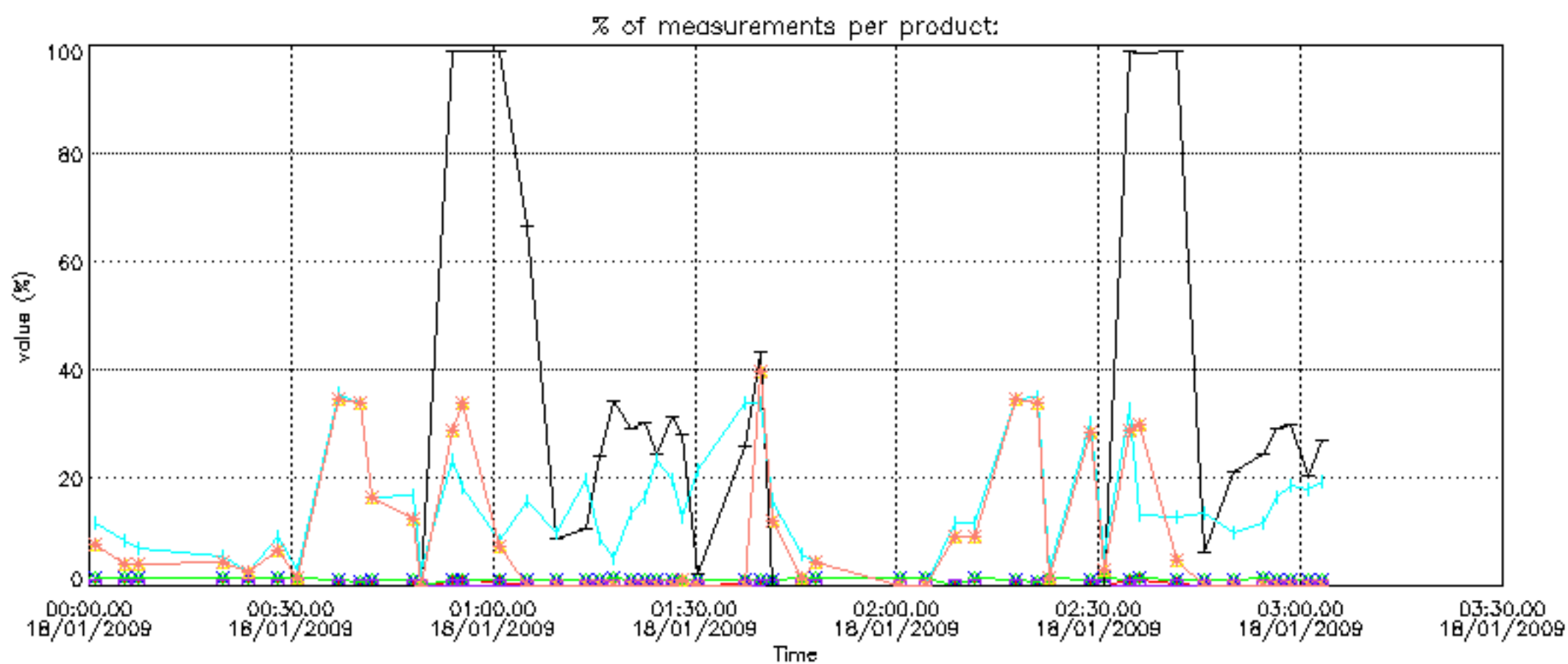
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-JAN-2009 00:00:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090113_094413_20090111_000000_20100101_000000	1	18-JAN-2009 00:00:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-JAN-2009 00:00:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-JAN-2009 00:00:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-JAN-2009 00:00:59
ECMWF_FILE	AUX_ECF_AXNECM20090117_064111_20090117_210000_20090118_090000	1	18-JAN-2009 00:00:59
OPTIONAL_ECMWF_FILE	MISSING	1	18-JAN-2009 00:00:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090117_212327_000060572075_00372_35997_7183.N1	1	18-JAN-2009 00:00:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090117_230943_000057382075_00373_35998_7184.N1	13	18-JAN-2009 00:53:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090118_005040_000041442075_00374_35999_7185.N1	35	18-JAN-2009 02:11:24

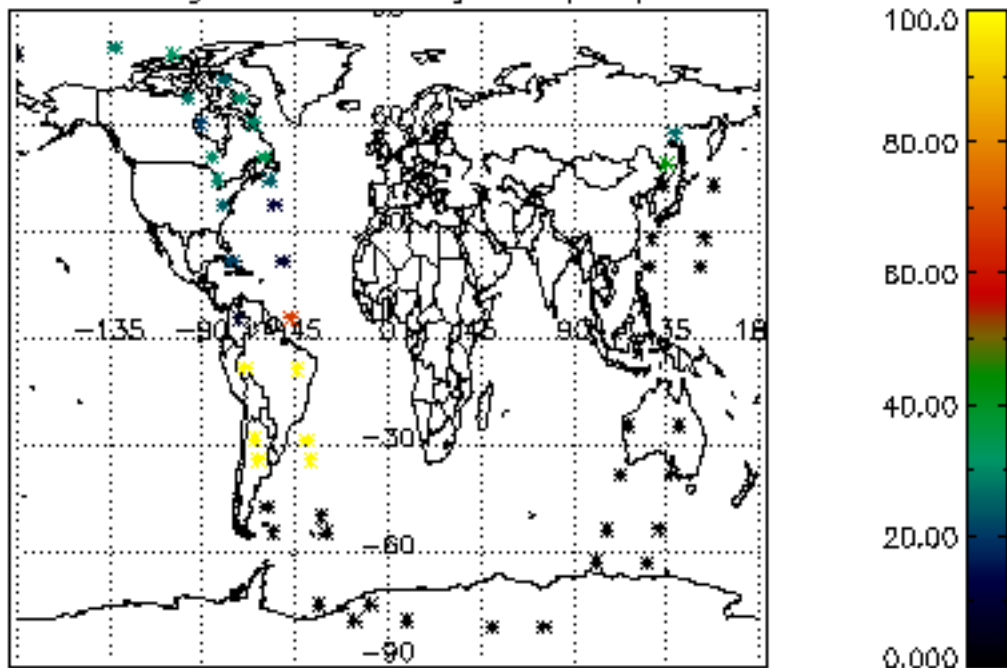




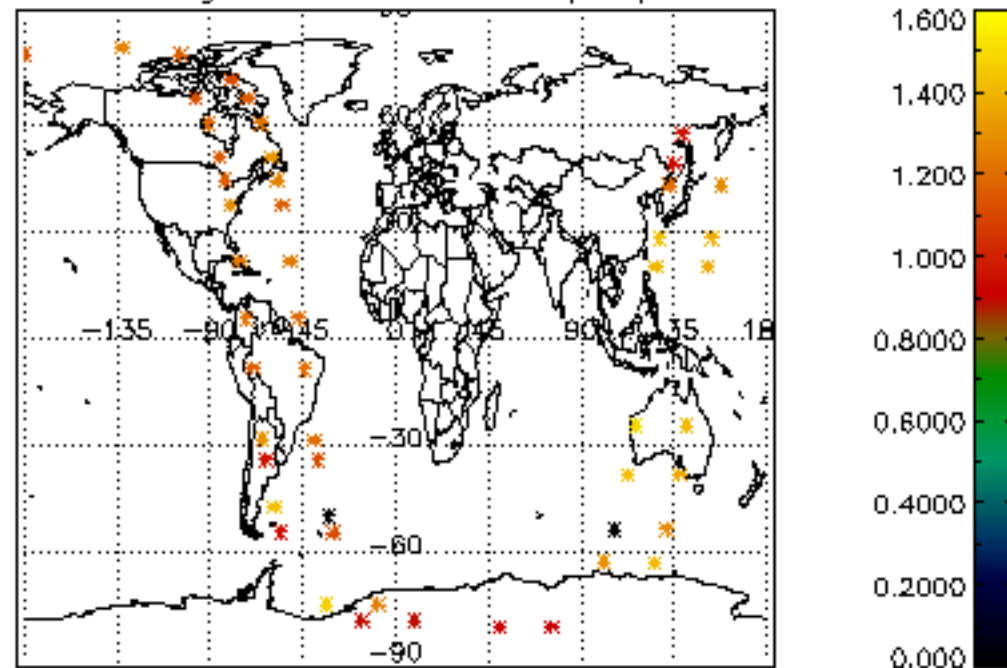




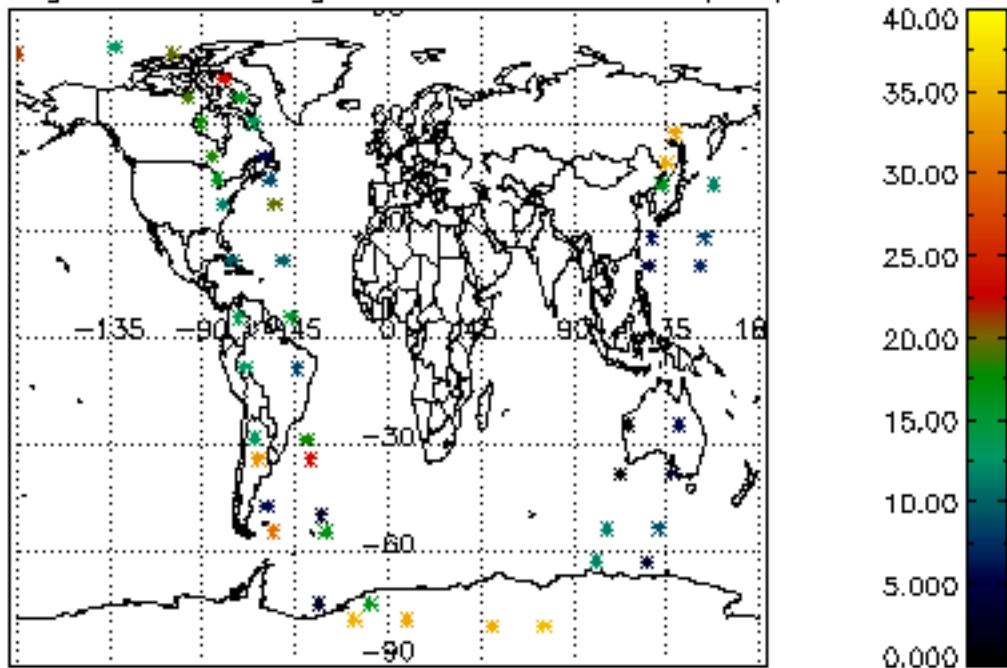
Percentage of cosmic ray hits per profile



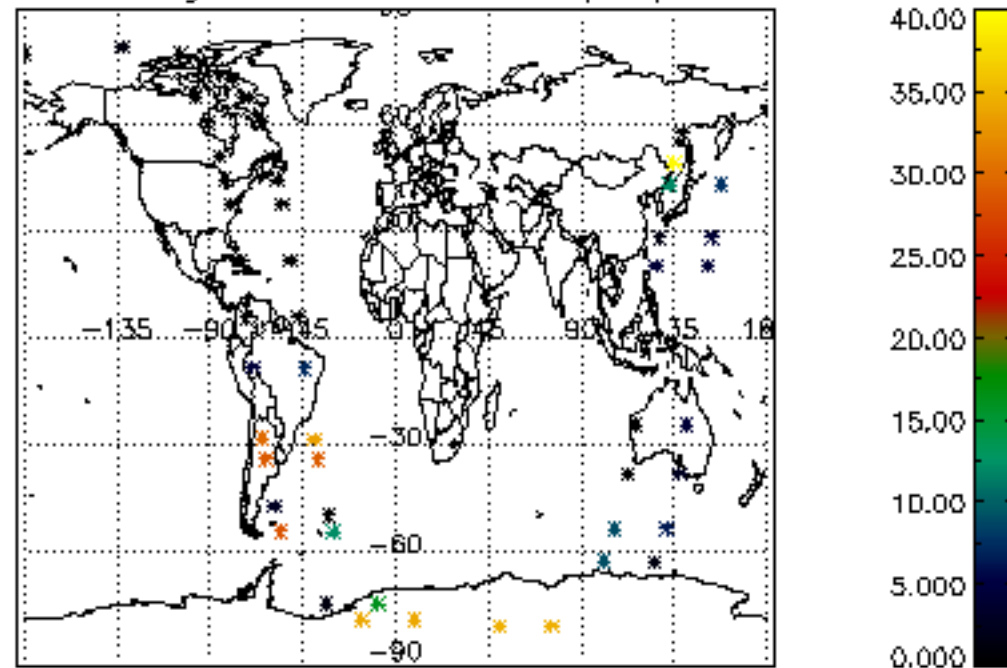
Percentage of datation errors per profile



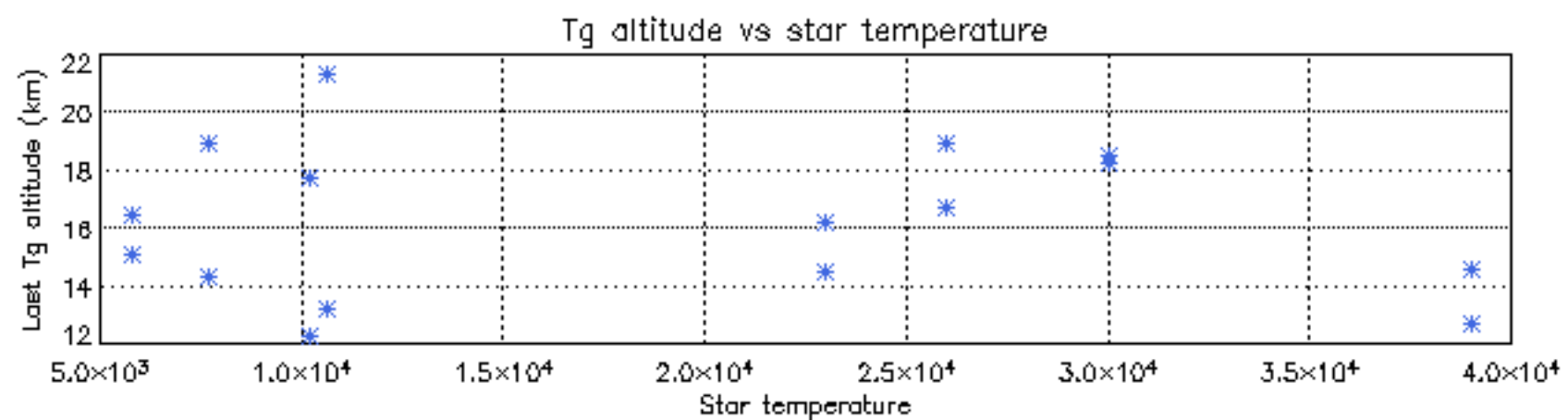
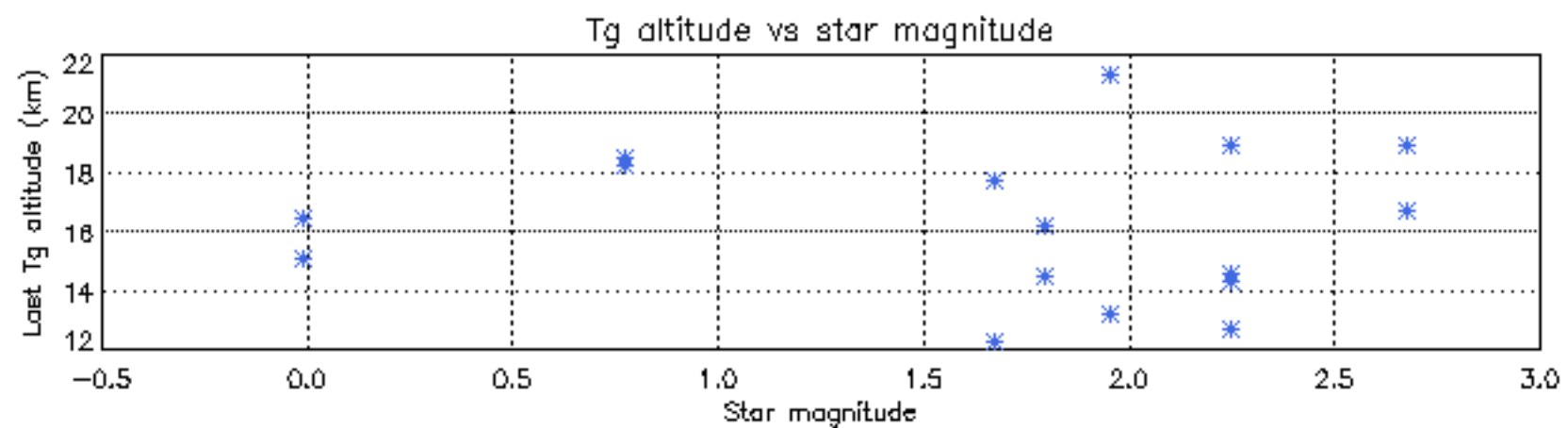
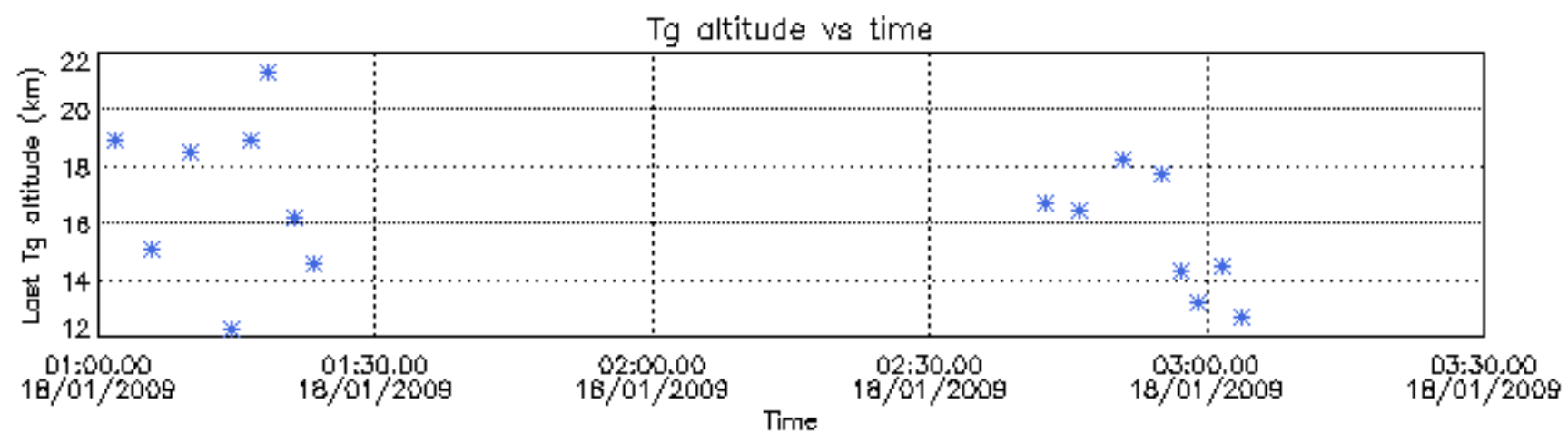
Percentage of star falling outside central band per profile



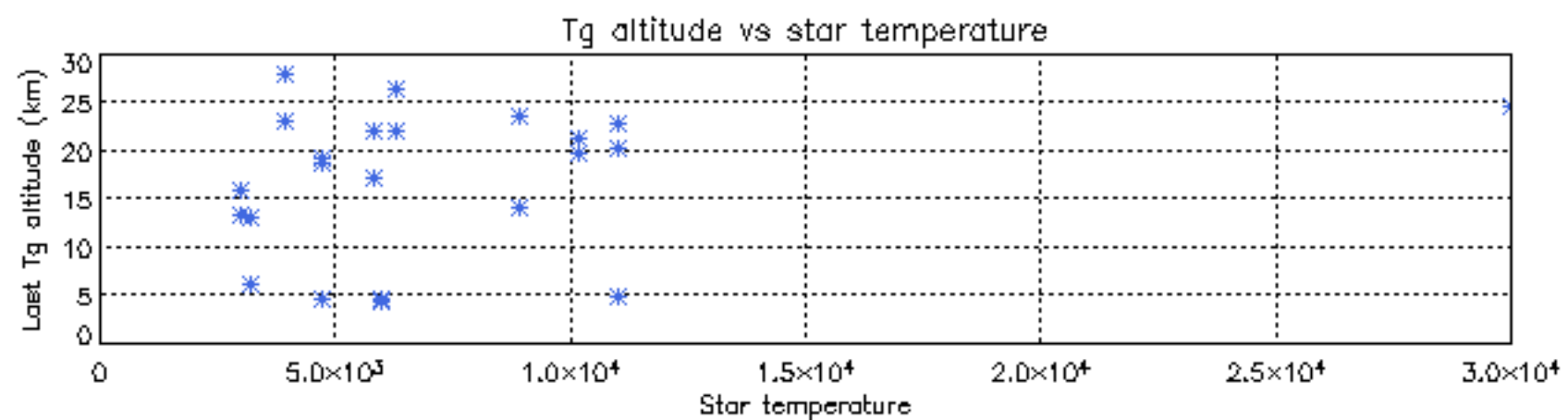
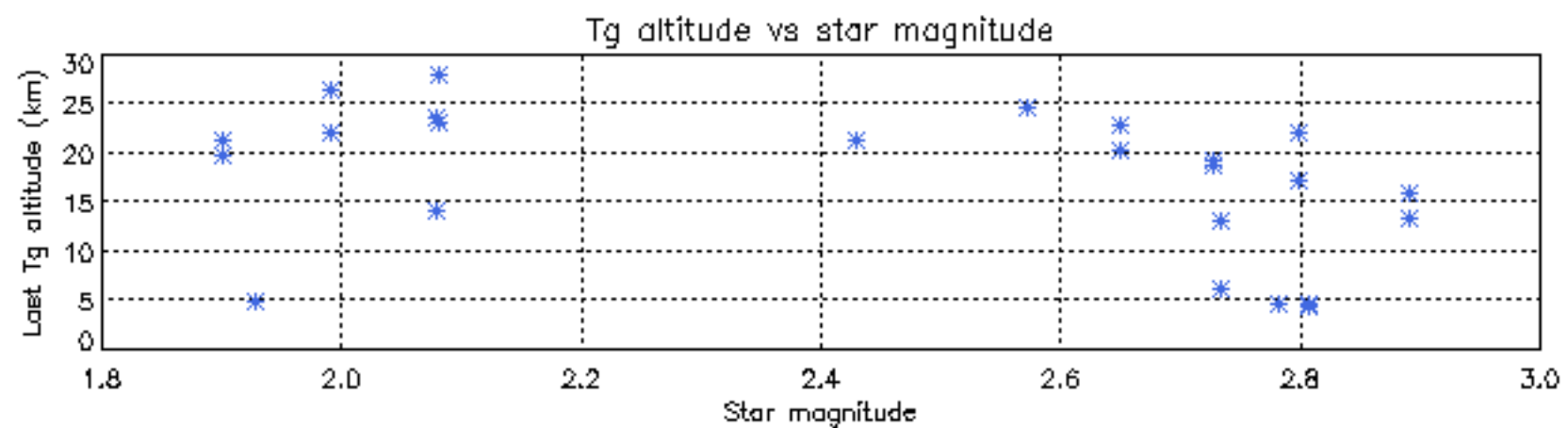
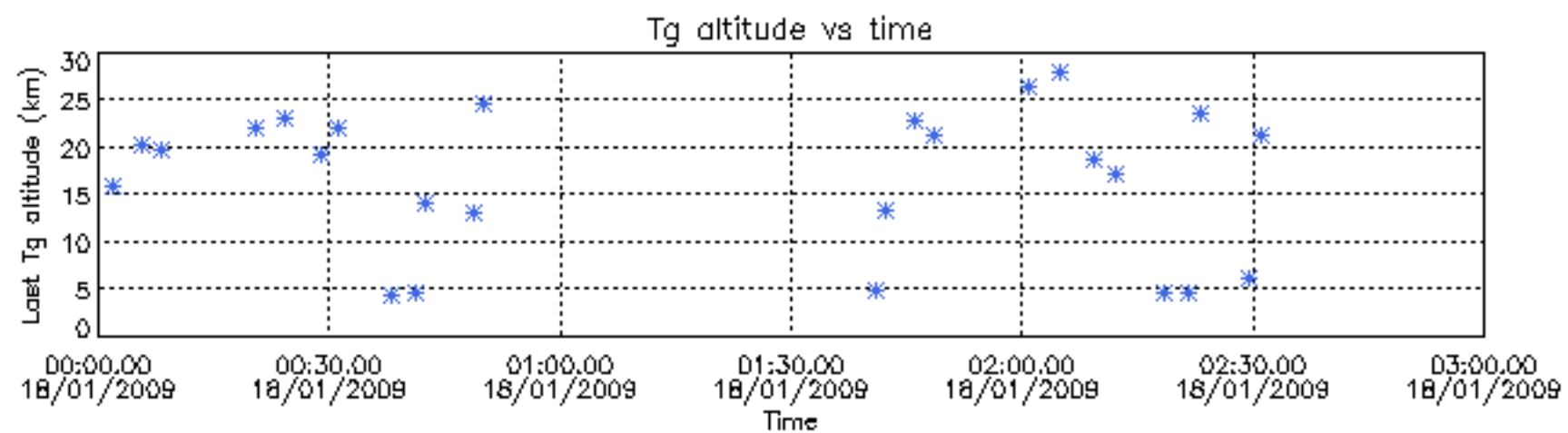
Percentage of saturation errors per profile



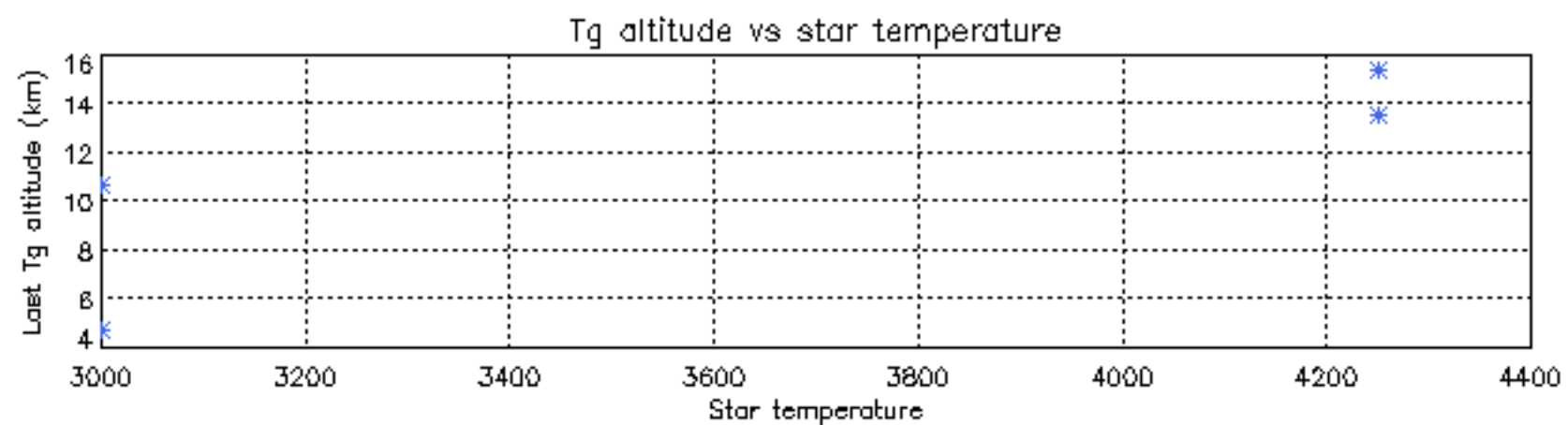
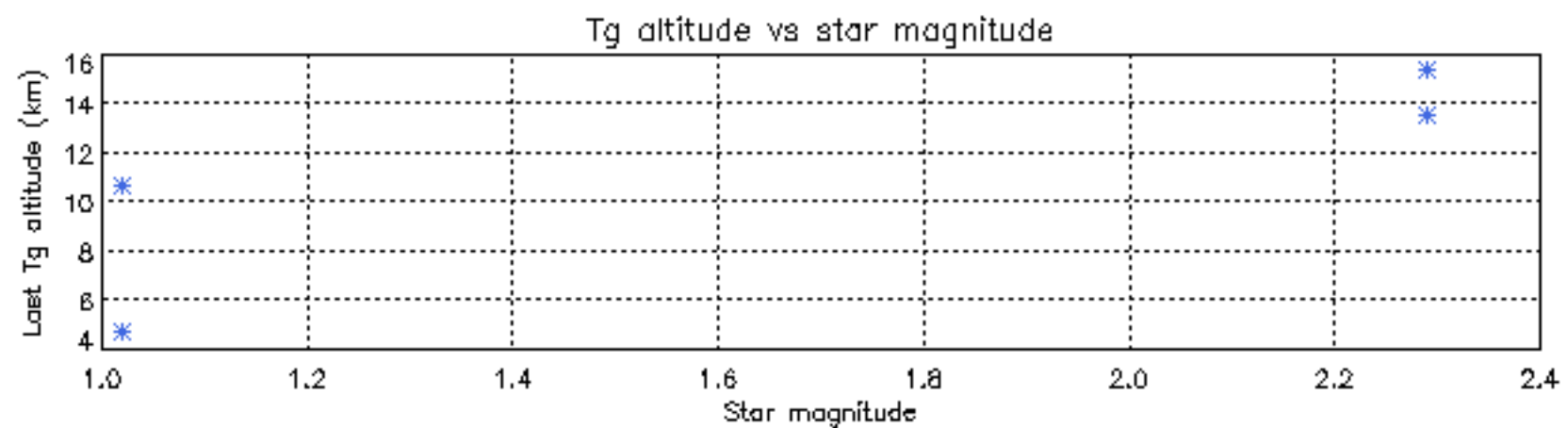
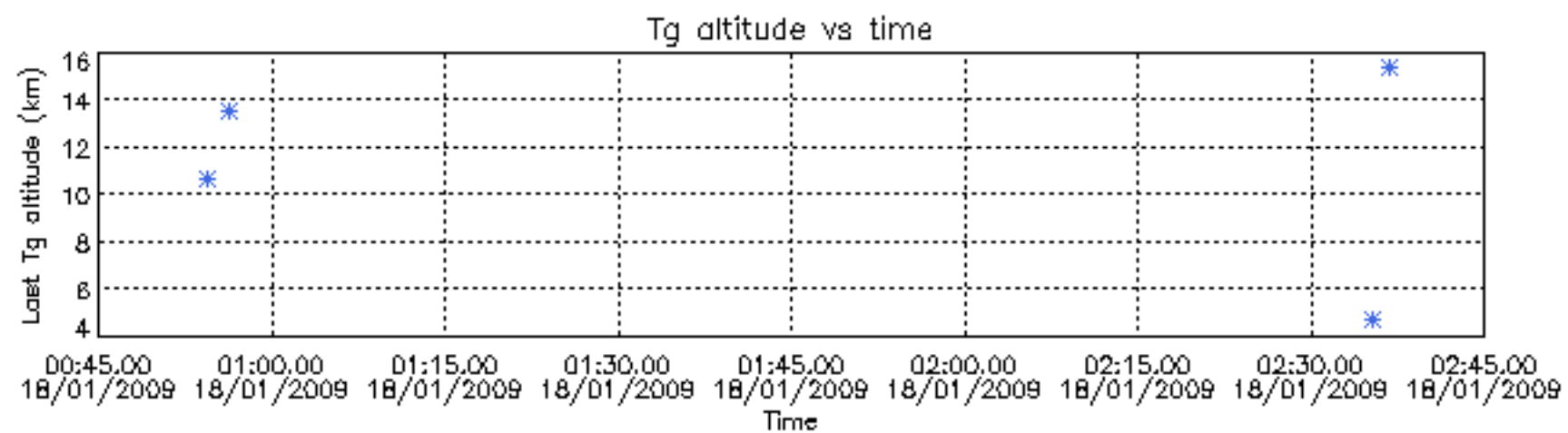
Tangent altitude at which the star is lost

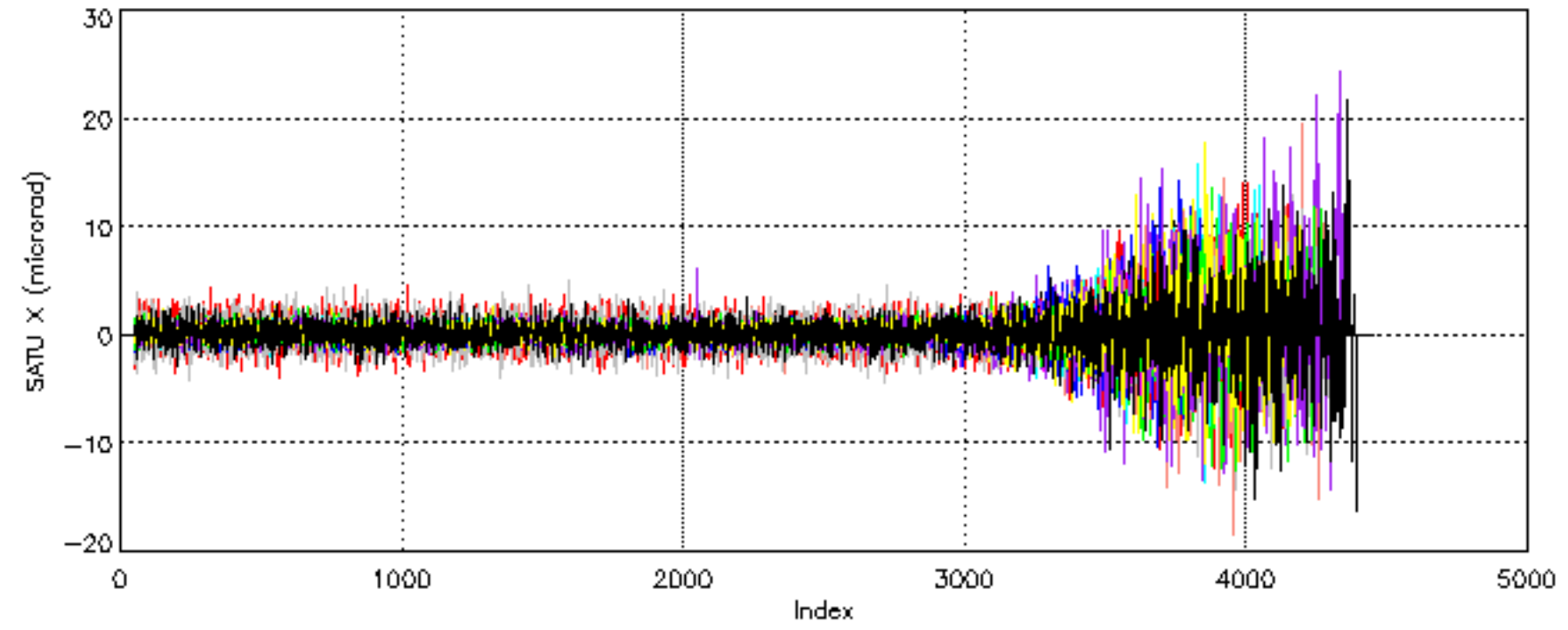


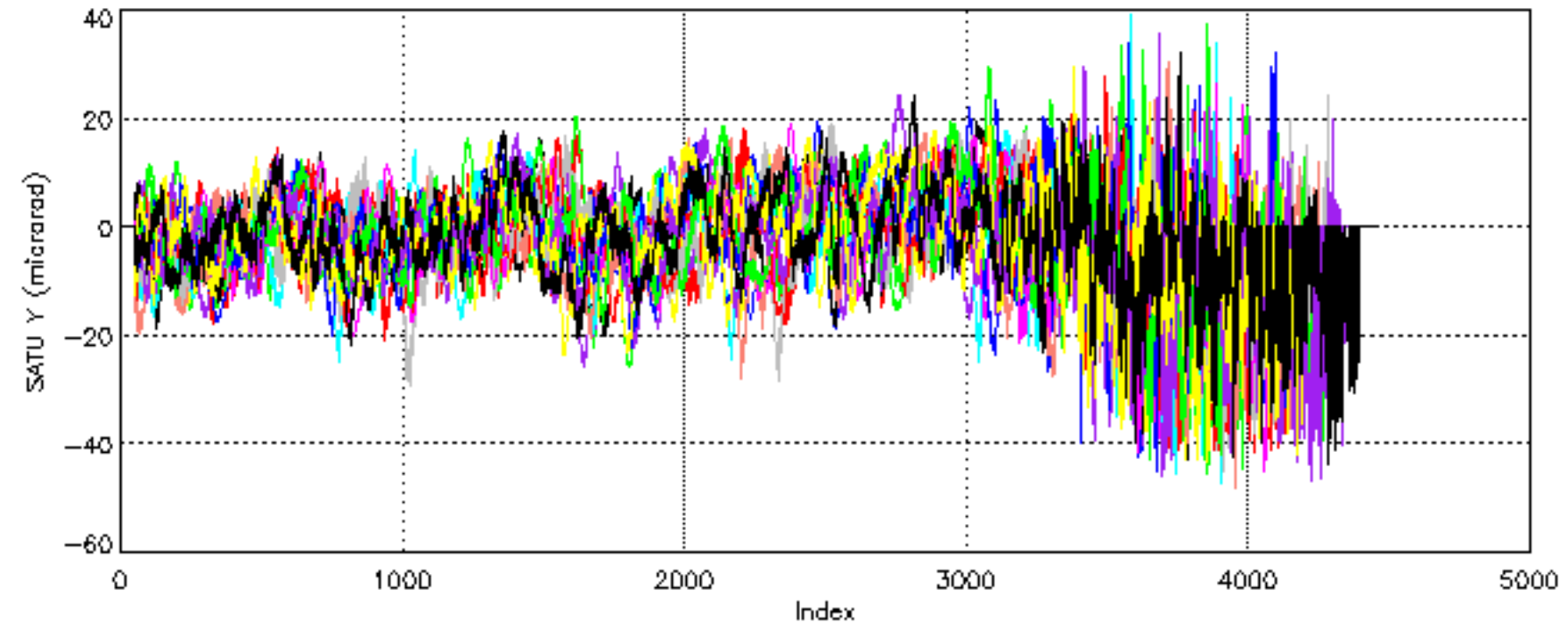
Tangent altitude at which the star is lost

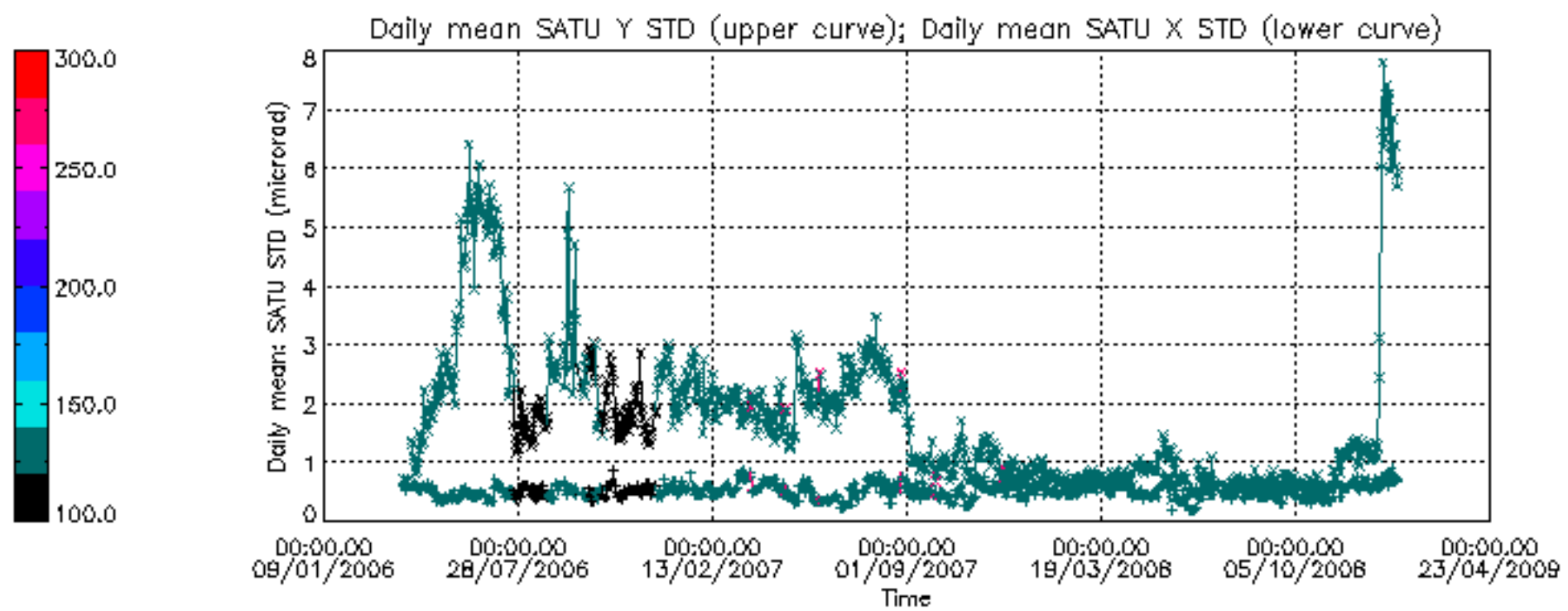


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090101_013614_000038262075_00131_35756_7133.N1

1; -100.5; 01-JAN-2009 01:36:14; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35756
 2; 41.0; 01-JAN-2009 01:38:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;35757
 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090101_024316_000055702075_00132_35757_7134.N1

1; -2114.0; 01-JAN-2009 02:43:16; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35757
 2; -1682.7; 01-JAN-2009 02:50:28; Bright; 32.0; 180; 27Gam Boo ; 3.04; 8000;occ; 64; 0;35757
 3; -1489.1; 01-JAN-2009 02:53:41; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;35757
 4; -1144.0; 01-JAN-2009 02:59:26; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;35757
 5; -839.6; 01-JAN-2009 03:04:31; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;35757
 6; -679.6; 01-JAN-2009 03:07:11; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;35757
 7; -278.4; 01-JAN-2009 03:13:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;35757
 8; -100.0; 01-JAN-2009 03:16:50; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;35757
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 13; 4892.6; 01-JAN-2009 08:01:15; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;35760
 14; 5198.1; 01-JAN-2009 08:06:20; Bright; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;35760
 15; 5358.1; 01-JAN-2009 08:09:00; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;35760
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 16; 5759.4; 01-JAN-2009 09:56:18; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;35761
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 27; 7212.2; 01-JAN-2009 10:20:30; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;35761
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26; 7017.6; 01-JAN-2009 11:57:52; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;35762
27; 7212.2; 01-JAN-2009 12:01:06; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35762
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16; 5360.0; 01-JAN-2009 13:10:50; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;35763
17; 5760.5; 01-JAN-2009 13:17:30; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;35763
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6; 2396.6; 01-JAN-2009 14:02:02; Bright; 39.0; 28; 12Bet Tau ; 1.65; 15200;occ; 78; 0;35764
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8; 2564.3; 01-JAN-2009 14:04:50; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;35764
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13; 4577.0; 01-JAN-2009 14:38:23; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;35764
14; 4894.1; 01-JAN-2009 14:43:40; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;35764
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16;	1356.6;	04-JAN-2009	22:13:27;	Dark	;	46.0;	23;	21Eps CMA	;	1.50;	26000;occ;	92;	0;	35812
17;	1446.2;	04-JAN-2009	22:14:57;	Dark	;	43.5;	179;	240mi2CMA	;	3.03;	24000;occ;	87;	0;	35812
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23;	2311.9;	04-JAN-2009	22:29:22;	Bright;	;	45.5;	151;	13Mu Gem	;	2.89;	3000;occ;	91;	0;	35812
24;	2394.5;	04-JAN-2009	22:30:45;	Bright;	;	37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	35812
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31;	4058.2;	04-JAN-2009	22:58:29;	Bright;	;	36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	35812
32;	4431.1;	04-JAN-2009	23:04:41;	Bright;	;	34.5;	133;	40Zet Her	;	2.81;	6000;occ;	69;	0;	35812
33;	4556.8;	04-JAN-2009	23:06:47;	Bright;	;	37.5;	67;	5Alp CrB	;	2.22;	11000;occ;	75;	0;	35812
34;	4909.6;	04-JAN-2009	23:12:40;	Bright;	;	55.0;	102;	24Alp Ser	;	2.60;	4250;occ;	110;	0;	35812
35;	5045.3;	04-JAN-2009	23:14:56;	Bright;	;	52.0;	120;	1Del Oph	;	2.73;	3200;occ;	104;	0;	35812
36;	5224.0;	04-JAN-2009	23:17:54;	Bright;	;	42.0;	104;	27Bet Lib	;	2.61;	13100;occ;	84;	0;	35812
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1;	-664.5;	04-JAN-2009	23:20:22;	Dark	;	43.0;	80;	7Del Sco	;	2.32;	30000;occ;	86;	0;	35812
2;	-339.0;	04-JAN-2009	23:25:47;	Dark	;	39.5;	131;	Gam Lup	;	2.80;	26000;occ;	79;	0;	35812
3;	-252.6;	04-JAN-2009	23:27:14;	Dark	;	40.5;	109;	Bet Lup	;	2.68;	26000;occ;	81;	0;	35812
4;	-163.2;	04-JAN-2009	23:28:43;	Dark	;	41.0;	78;	Alp Lup	;	2.30;	28000;occ;	82;	0;	35812
5;	-64.8;	04-JAN-2009	23:30:21;	Dark	;	40.5;	95;	Zet Cen	;	2.55;	26000;occ;	81;	0;	35812
6;	19.0;	04-JAN-2009	23:31:45;	Dark	;	44.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	88;	0;	35813
7;	156.6;	04-JAN-2009	23:34:03;	Dark	;	43.0;	64;	Gam Cen	;	2.20;	10600;occ;	86;	0;	35813
8;	266.2;	04-JAN-2009	23:35:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35813
9;	461.9;	04-JAN-2009	23:39:08;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	35813
10;	568.8;	04-JAN-2009	23:40:55;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	35813
11;	662.1;	04-JAN-2009	23:42:28;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;occ;	82;	0;	35813
12;	751.6;	04-JAN-2009	23:43:58;	Dark	;	52.0;	41;	Eps Car	;	1.86;	4100;occ;	104;	0;	35813
13;	993.5;	04-JAN-2009	23:48:00;	Dark	;	46.5;	2;	Alp Car	;	-0.74;	7000;occ;	93;	0;	35813
14;	1076.8;	04-JAN-2009	23:49:23;	Dark	;	43.5;	70;	Zet Pup	;	2.25;	39000;occ;	87;	0;	35813
15;	1193.8;	04-JAN-2009	23:51:20;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	35813
16;	1356.9;	04-JAN-2009	23:54:03;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	35813
17;	1446.8;	04-JAN-2009	23:55:33;	Dark	;	44.5;	179;	240mi2CMA	;	3.03;	24000;occ;	89;	0;	35813
18;	1589.4;	04-JAN-2009	23:57:56;	Dark	;	46.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	93;	0;	35813
19;	1778.2;	05-JAN-2009	00:01:04;	Dark	;	45.5;	7;	19Bet Ori	;	0.10;	14000;occ;	91;	0;	35813
20;	1886.0;	05-JAN-2009	00:02:52;	Dark	;	43.0;	30;	46Eps Ori	;	1.69;	30000;occ;	86;	0;	35813
21;	2030.7;	05-JAN-2009	00:05:17;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;occ;	100;	0;	35813
22;	2211.3;	05-JAN-2009	00:08:18;	Dark	;	47.0;	44;	24Gam Gem	;	1.93;	11000;occ;	94;	0;	35813
23;	2311.3;	05-JAN-2009	00:09:58;	Bright;	;	46.0;	151;	13Mu Gem	;	2.89;	3000;occ;	92;	0;	35813
24;	2394.5;	05-JAN-2009	00:11:21;	Bright;	;	37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	35813
25;	2475.6;	05-JAN-2009	00:12:42;	Bright;	;	36.5;	114;	3Iot Aur	;	2.69;	4600;occ;	73;	0;	35813
26;	2553.8;	05-JAN-2009	00:14:00;	Bright;	;	37.5;	107;	37The Aur	;	2.65;	11000;occ;	75;	0;	35813
27;	2689.1;	05-JAN-2009	00:16:15;	Bright;	;	52.0;	6;	13Alp Aur	;	0.08;	3400;occ;	104;	0;	35813
28;	3424.2;	05-JAN-2009	00:28:30;	Bright;	;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	35813
29;	3684.3;	05-JAN-2009	00:32:50;	Bright;	;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	35813
30;	3924.1;	05-JAN-2009	00:36:50;	Bright;	;	38.0;	119;	14Eta Dra	;	2.73;	4700;occ;	76;	0;	35813
31;	4058.5;	05-JAN-2009	00:39:05;	Bright;	;	36.0;	130;	23Bet Dra	;	2.80;	5800;occ;	72;	0;	35813
32;	4431.1;	05-JAN-2009	00:45:17;	Bright;	;	35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	35813
33;	4556.9;	05-JAN-2009	00:47:23;	Bright;	;	45.5;	67;	5Alp CrB	;	2.22;	11000;occ;	91;	0;	35813
34;	4909.9;	05-JAN-2009	00:53:16;	Bright;	;	37.0;	102;	24Alp Ser	;	2.60;	4250;occ;	74;	0;	35813
35;	5045.6;	05-JAN-2009	00:55:32;	Bright;	;	35.0;	120;	1Del Oph	;	2.73;	3200;occ;	70;	0;	35813
36;	5224.2;	05-JAN-2009	00:58:30;	Bright;	;	41.0;	104;	27Bet Lib	;	2.61;	13100;occ;	82;	0;	35813
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2;	-2111.8;	04-JAN-2009	06:10:15;	Bright;	;	35.5;	119;	14Eta Dra	;	2.73;	4700;occ;	71;	0;	35802
3;	-1978.7;	04-JAN-2009	06:12:28;	Bright;	;	32.5;	130;	23Bet Dra	;	2.80;	5800;occ;	65;	0;	35802
4;	-1606.3;	04-JAN-2009	06:18:41;	Bright;	;	33.0;	133;	40Zet Her	;	2.81;	6000;occ;	66;	0;	35802
5;	-1480.8;	04-JAN-2009	06:20:46;	Bright;	;	38.5;	67;	5Alp CrB	;	2.22;	11000;occ;	77;	0;	35802
6;	-1129.7;	04-JAN-2009	06:26:37;	Bright;	;	46.5;	102;	24Alp Ser	;	2.60;	4250;occ;	93;	0;	35802
7;	-993.3;	04-JAN-2009	06:28:54;	Bright;	;	34.0;	120;	1Del Oph	;	2.73;	3200;occ;	68;	0;	35802

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15; 148.0; 04-JAN-2009 06:47:55; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;35803
16; 256.8; 04-JAN-2009 06:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
17; 456.7; 04-JAN-2009 06:53:04; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35803
18; 565.3; 04-JAN-2009 06:54:52; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;35803
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21; 992.1; 04-JAN-2009 07:01:59; Dark ; 41.5; 2; Alp Car ;-0.74; 7000;occ; 83; 0;35803
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23; 1354.5; 04-JAN-2009 07:08:02; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
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6; 2268.9; 04-JAN-2009 07:23:16; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;35803
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8; 2475.0; 04-JAN-2009 07:26:42; Bright; 39.5; 114; 3Iot Aur ; 2.69; 4600;occ; 79; 0;35803
9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803
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12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803
13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803
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15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803
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19; 5218.9; 04-JAN-2009 08:12:26; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35803
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22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803
23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
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27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
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29; 6601.6; 04-JAN-2009 08:35:29; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;35803
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31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
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33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
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38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
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 9; 2689.5; 04-JAN-2009 10:51:28; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;35805
 10; 3423.8; 04-JAN-2009 11:03:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;35805
 11; 3685.0; 04-JAN-2009 11:08:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35805
 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
 14; 4430.3; 04-JAN-2009 11:20:29; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;35805
 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
 17; 5043.7; 04-JAN-2009 11:30:43; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35805
 18; 5219.9; 04-JAN-2009 11:33:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;35805
 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
 20; 5695.0; 04-JAN-2009 11:41:34; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;35805
 21; 5780.7; 04-JAN-2009 11:43:00; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;35805
 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805
 24; 6052.7; 04-JAN-2009 11:47:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35805
 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

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16; 4555.6; 04-JAN-2009 13:03:10; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;35806
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22; 5780.5; 04-JAN-2009 13:23:35; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;35806
23; 5870.0; 04-JAN-2009 13:25:05; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;35806
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25; 6052.8; 04-JAN-2009 13:28:08; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;35806
26; 6187.3; 04-JAN-2009 13:30:22; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35806
27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806
29; 6602.6; 04-JAN-2009 13:37:17; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35806
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33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
34; 7228.2; 04-JAN-2009 13:47:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35806
35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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4; 1885.4; 04-JAN-2009 13:59:16; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35807
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12; 3684.9; 04-JAN-2009 14:29:15; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35807
13; 3924.0; 04-JAN-2009 14:33:15; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;35807
14; 4057.5; 04-JAN-2009 14:35:28; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;35807
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16; 4556.1; 04-JAN-2009 14:43:47; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;35807
17; 4907.9; 04-JAN-2009 14:49:38; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;35807
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19; 5220.9; 04-JAN-2009 14:54:51; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;35807
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21; 5695.3; 04-JAN-2009 15:02:46; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;35807
22; 5781.3; 04-JAN-2009 15:04:12; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;35807
23; 5870.7; 04-JAN-2009 15:05:41; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35807
24; 5968.4; 04-JAN-2009 15:07:19; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;35807
25; 6053.4; 04-JAN-2009 15:08:44; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;35807
26; 6188.2; 04-JAN-2009 15:10:59; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35807
27; 6297.5; 04-JAN-2009 15:12:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35807
28; 6495.2; 04-JAN-2009 15:16:06; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35807
29; 6603.1; 04-JAN-2009 15:17:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35807
30; 6695.9; 04-JAN-2009 15:19:26; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35807
31; 6785.6; 04-JAN-2009 15:20:56; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;35807
32; 7028.6; 04-JAN-2009 15:24:59; Dark ; 37.0; 2; Alp Car ;-0.74; 7000;occ; 74; 0;35807
33; 7111.4; 04-JAN-2009 15:26:22; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;35807
34; 7228.1; 04-JAN-2009 15:28:19; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;35807
35; 7391.3; 04-JAN-2009 15:31:02; Dark ; 29.5; 23; 21Eps Cma ; 1.50; 26000;occ; 59; 0;35807

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4; 1777.8; 04-JAN-2009 15:38:04; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;35808
5; 1885.7; 04-JAN-2009 15:39:52; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35808
6; 2031.1; 04-JAN-2009 15:42:18; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35808
7; 2212.8; 04-JAN-2009 15:45:19; Dark ; 30.0; 44; 24Gam Gem ; 1.93; 11000;occ; 60; 0;35808
8; 2312.5; 04-JAN-2009 15:46:59; Bright; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;35808
9; 2395.1; 04-JAN-2009 15:48:22; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;35808
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22; 5389.3; 04-JAN-2009 16:38:16; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;35808
23; 5695.5; 04-JAN-2009 16:43:22; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;35808
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27; 6053.7; 04-JAN-2009 16:49:20; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;35808
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29; 6298.5; 04-JAN-2009 16:53:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35808
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31; 6603.3; 04-JAN-2009 16:58:30; Dark ; 46.0; 29; Bet Car ; 1.67; 10200;occ; 92; 0;35808
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33; 6785.8; 04-JAN-2009 17:01:32; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;35808
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35; 7111.3; 04-JAN-2009 17:06:58; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;35808
36; 7228.4; 04-JAN-2009 17:08:55; Dark ; 25.5; 117; Pi Pup ; 2.71; 3800;occ; 51; 0;35808

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3; 1095.4; 07-JAN-2009 20:34:15; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;35854
4; 1206.8; 07-JAN-2009 20:36:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;35854
5; 1366.4; 07-JAN-2009 20:38:46; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;35854
6; 1454.8; 07-JAN-2009 20:40:14; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;35854

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8; 1742.4; 07-JAN-2009 20:45:02; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;35854
9; 1890.3; 07-JAN-2009 20:47:30; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35854
10; 2031.5; 07-JAN-2009 20:49:51; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35854
11; 2202.8; 07-JAN-2009 20:52:42; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;35854
12; 2302.8; 07-JAN-2009 20:54:22; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;35854
13; 2394.9; 07-JAN-2009 20:55:54; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35854
14; 2480.3; 07-JAN-2009 20:57:20; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;35854
15; 2680.5; 07-JAN-2009 21:00:40; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;35854
16; 3424.3; 07-JAN-2009 21:13:04; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;35854
17; 3679.0; 07-JAN-2009 21:17:18; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;35854
18; 3924.2; 07-JAN-2009 21:21:23; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35854
19; 4064.4; 07-JAN-2009 21:23:44; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;35854
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22; 4924.6; 07-JAN-2009 21:38:04; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;35854
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3;-1973.1; 07-JAN-2009 06:18:19; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;35845
4;-1599.8; 07-JAN-2009 06:24:32; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35845
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6;-1114.9; 07-JAN-2009 06:32:37; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;35845
7; -980.5; 07-JAN-2009 06:34:51; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35845
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6; 2305.0; 07-JAN-2009 07:29:37; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;35846
7; 2395.0; 07-JAN-2009 07:31:07; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35846
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 27; 6616.1; 07-JAN-2009 08:41:28; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;35846
 28; 6715.2; 07-JAN-2009 08:43:07; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;35846
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 32; 7240.6; 07-JAN-2009 08:51:52; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35846
 33; 7400.8; 07-JAN-2009 08:54:33; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35846
 34; 7489.7; 07-JAN-2009 08:56:02; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;35846
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 6; 2394.9; 07-JAN-2009 09:11:43; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;35847
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 8; 2681.7; 07-JAN-2009 09:16:29; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;35847
 9; 3424.0; 07-JAN-2009 09:28:52; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35847
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 15; 4921.9; 07-JAN-2009 09:53:50; Bright; 41.0; 102; 24Alp Ser ; 2.60; 4250;occ; 82; 0;35847
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 27; 6715.8; 07-JAN-2009 10:23:44; Dark ; 48.0; 71; Iot Car ; 2.25; 7700;occ; 96; 0;35847
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 29; 6997.7; 07-JAN-2009 10:28:25; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;35847
 30; 7128.9; 07-JAN-2009 10:30:37; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;35847
 31; 7240.7; 07-JAN-2009 10:32:28; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;35847
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 13; 4063.7; 07-JAN-2009 11:20:07; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;35848
 14; 4436.5; 07-JAN-2009 11:26:20; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;35848
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26; 6515.7; 07-JAN-2009 12:00:59; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35848
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33; 7400.9; 07-JAN-2009 12:15:45; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;35848
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12;	3424.4;	11-JAN-2009	15:45:23;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	35908
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14;	3923.7;	11-JAN-2009	15:53:43;	Bright;		40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	35908
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32;	6825.1;	11-JAN-2009	16:42:04;	Dark	;	50.0;	41;	Eps Car	;	1.86;	4100;occ;	100;	0;	35908
33;	7024.0;	11-JAN-2009	16:45:23;	Dark	;	44.0;	34;	Gam2Vel	;	1.79;	23000;occ;	88;	0;	35908
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9;	2194.1;	11-JAN-2009	17:05:29;	Dark	;	41.5;	44;	24Gam Gem	;	1.93;	11000;occ;	83;	0;	35909
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11;	2398.8;	11-JAN-2009	17:08:54;	Bright;		37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	35909
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13;	2675.0;	11-JAN-2009	17:13:30;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	35909
14;	3424.3;	11-JAN-2009	17:25:59;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	35909
15;	3671.1;	11-JAN-2009	17:30:06;	Bright;		43.5;	60;	7Bet UMi	;	2.08;	3950;occ;	87;	0;	35909
16;	3923.7;	11-JAN-2009	17:34:19;	Bright;		40.5;	119;	14Eta Dra	;	2.73;	4700;occ;	81;	0;	35909
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21;	5077.7;	11-JAN-2009	17:53:33;	Bright;		54.0;	120;	1Del Oph	;	2.73;	3200;occ;	108;	0;	35909
22;	5163.4;	11-JAN-2009	17:54:58;	Bright;		52.0;	98;	13Zet Oph	;	2.57;	30000;occ;	104;	0;	35909
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34; 4898.3; 24-JAN-2009 22:43:42; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;36098
35; 5240.7; 24-JAN-2009 22:49:25; Dark ; 43.0; 98; 13Zet Oph ; 2.57; 30000;occ; 86; 0;36098

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5; 40.9; 24-JAN-2009 23:03:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36099
6; 143.4; 24-JAN-2009 23:05:03; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36099
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9; 511.8; 24-JAN-2009 23:11:12; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36099
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 13; 1053.7; 24-JAN-2009 23:20:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36099
 14; 1179.9; 24-JAN-2009 23:22:20; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36099
 15; 1269.2; 24-JAN-2009 23:23:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;36099
 16; 1416.6; 24-JAN-2009 23:26:16; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;36099
 17; 1499.6; 24-JAN-2009 23:27:39; Dark ; 39.5; 179; 240mi2CMA ; 3.03; 24000;occ; 79; 0;36099
 18; 1629.4; 24-JAN-2009 23:29:49; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;36099
 19; 1995.4; 24-JAN-2009 23:35:55; Dark ; 50.0; 8; 10Alp CMI ; 0.40; 6500;occ; 100; 0;36099
 20; 2188.5; 24-JAN-2009 23:39:08; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36099
 21; 2295.5; 24-JAN-2009 23:40:55; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36099
 22; 2414.2; 24-JAN-2009 23:42:54; Bright; 41.5; 17; 78Bet Gem ; 1.16; 4500;occ; 83; 0;36099
 23; 2549.5; 24-JAN-2009 23:45:09; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36099
 24; 2677.5; 24-JAN-2009 23:47:17; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36099
 25; 3426.3; 24-JAN-2009 23:59:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36099
 26; 3635.7; 25-JAN-2009 00:03:15; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36099
 27; 3910.4; 25-JAN-2009 00:07:50; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;36099
 28; 4085.4; 25-JAN-2009 00:10:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36099
 29; 4289.7; 25-JAN-2009 00:14:09; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;36099
 30; 4473.3; 25-JAN-2009 00:17:13; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36099
 31; 4674.7; 25-JAN-2009 00:20:34; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;36099
 32; 4771.4; 25-JAN-2009 00:22:11; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36099
 33; 4897.9; 25-JAN-2009 00:24:18; Bright; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;36099
 34; 5240.9; 25-JAN-2009 00:30:01; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36099

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

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

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090
 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;36090
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMA ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMA ;-1.44; 11000;occ; 83; 0;36090

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 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091
 8; 3426.5; 24-JAN-2009 10:34:59; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;36091
 9; 3637.7; 24-JAN-2009 10:38:30; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36091
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 15; 4896.4; 24-JAN-2009 10:59:29; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36091
 16; 5236.7; 24-JAN-2009 11:05:09; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36091
 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091
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 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091
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 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091
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 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;36091
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 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092
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 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092
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 10; 3637.8; 24-JAN-2009 12:19:06; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36092
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16; 4896.3; 24-JAN-2009 12:40:05; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36092
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 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092
 24; 6267.6; 24-JAN-2009 13:02:56; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;36092
 25; 6450.1; 24-JAN-2009 13:05:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;36092
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 29; 6931.4; 24-JAN-2009 13:14:00; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;36092
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7; 3897.8; 31-JAN-2009 08:42:07; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36190
8; 4087.4; 31-JAN-2009 08:45:17; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36190
9; 4304.3; 31-JAN-2009 08:48:54; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36190
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11; 4923.4; 31-JAN-2009 08:59:13; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;36190
12; 5311.0; 31-JAN-2009 09:05:40; Dark ; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;36190
13; 5568.8; 31-JAN-2009 09:09:58; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36190
14; 5704.2; 31-JAN-2009 09:12:14; Dark ; 30.0; 40; The Sco ; 1.86; 7100;occ; 60; 0;36190
15; 5915.0; 31-JAN-2009 09:15:44; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;36190
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17; 6138.9; 31-JAN-2009 09:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36190
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19; 6342.8; 31-JAN-2009 09:22:52; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;36190
20; 6503.3; 31-JAN-2009 09:25:33; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36190
21; 6623.0; 31-JAN-2009 09:27:32; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190
24; 6963.7; 31-JAN-2009 09:33:13; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36190
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26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190
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2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
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7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191
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9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191
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11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191
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15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191
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17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191
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21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191
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3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192
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6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192
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12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192
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21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192