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1. MIPAS Daily Report for level 1 products

1.1 General Info

This report contains a daily analysis on parameters extracted from MIPAS level 1 data (The MIP_NL__1P product).

1.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	v1.40 14-01-2010
Time of report generation	27OCT2010 01:50:08
Data source version	MIPAS/5.05-R
Processing scope for products	09OCT2010 00:00:00 to 10OCT2010 00:00:00
Start time of first product within scope	08OCT2010 23:54:30
Stop time of last product within scope	09OCT2010 23:22:46
Total number of level 1 products	2
Number of level 1 products with errors	0

1.1.2 Summary per product

The following table shows a summary for each product used in this report.

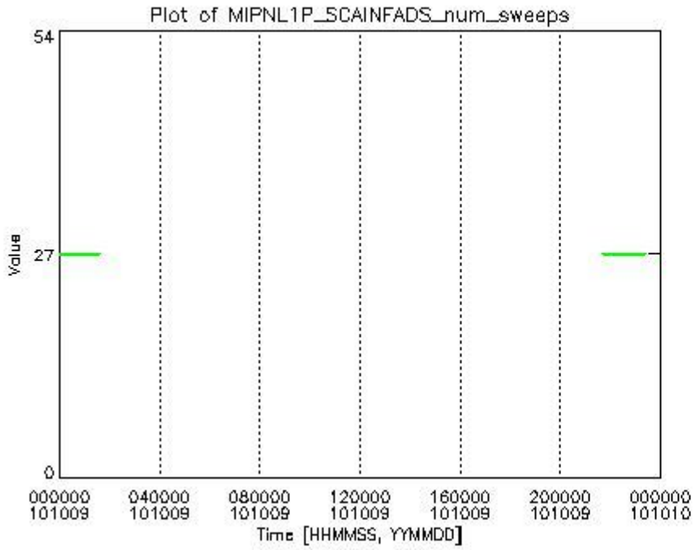
Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

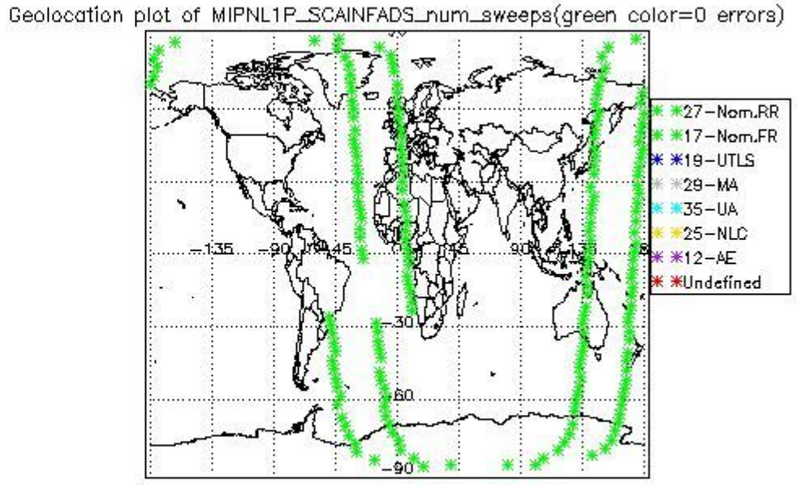
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)	#sweeps SPH
0	MIP_NL__1PRDPA20101008_235430_000060752093_00360_45003_6204.N1	08OCT2010 23:54:30	09OCT2010 01:35:45	0	0/0	27
1	MIP_NL__1PRDPA20101009_214232_000060152093_00373_45016_6230.N1	09OCT2010 21:42:32	09OCT2010 23:22:46	0	0/0	27

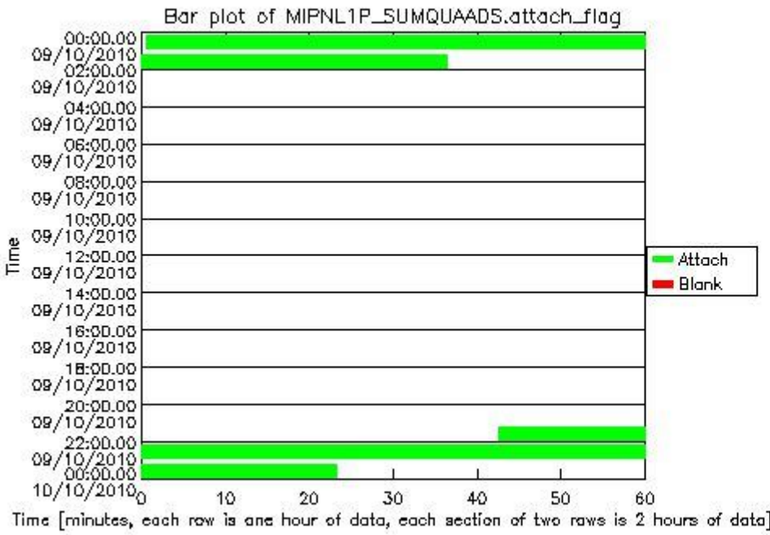
1.2 Product Quality Indicators

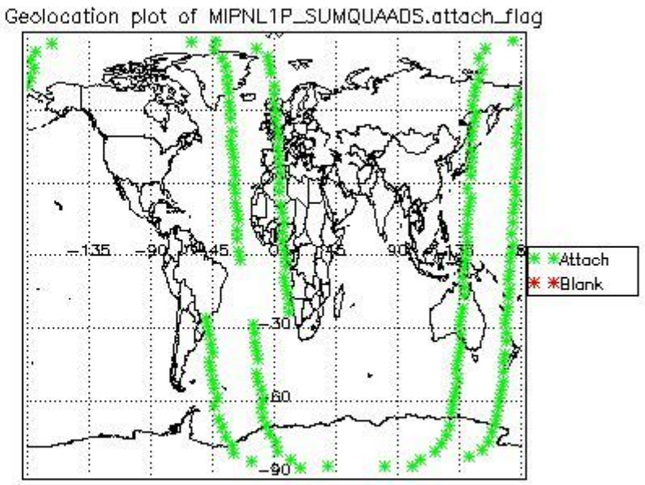
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

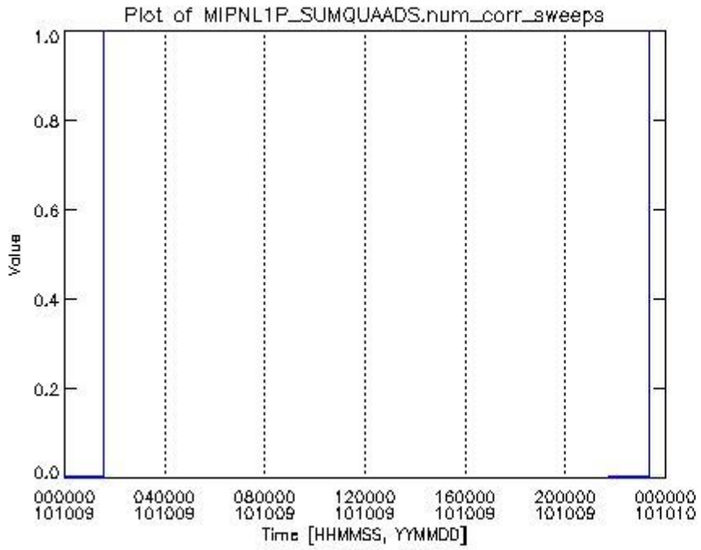
1.2.1 Trends and geolocation of Summary Quality and Scan Information ADS

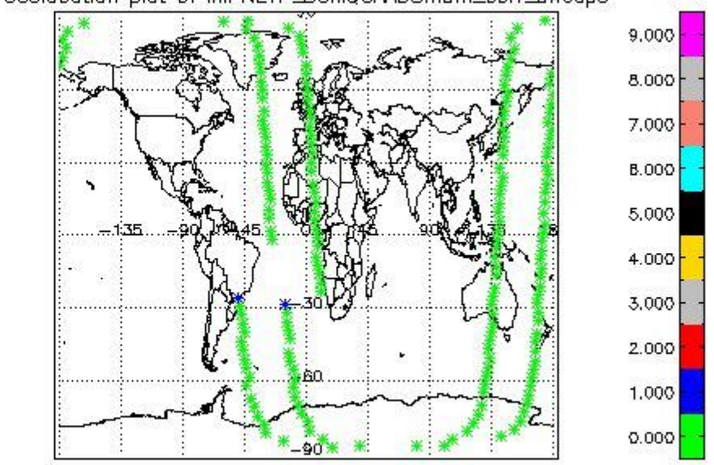

Plot of MIPNL1P_SCAINFADS_num_sweeps
54
27
0
Value
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)
27-Nom.RR
17-Nom.FR
19-UTLS
29-MA
35-UA
25-NLC
12-AE
Undefined
-135
-90
-45
0
45
90
135
-30
-60
-90


Bar plot of MIPNL1P_SUMQUAADS.attach_flag
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
Attach
Blank
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]


Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag
Attach
Blank
-135
-90
-45
0
45
90
135
-30
-60
-90


Plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
-135
-90
-45
0
45
90
135
180
30
60
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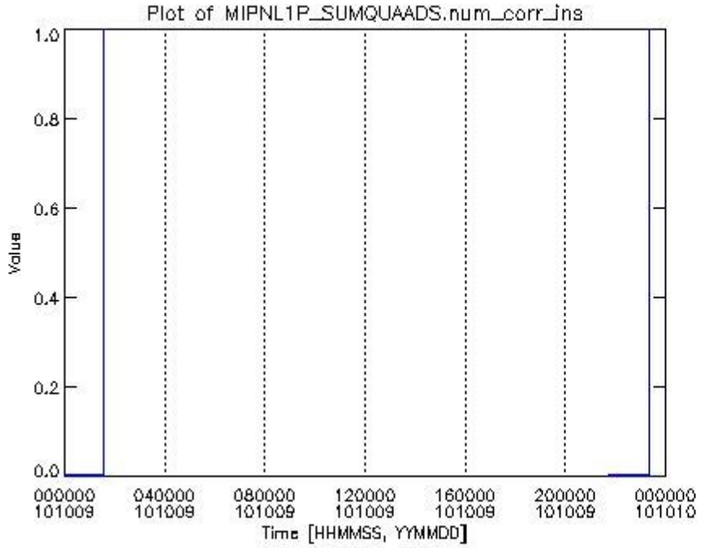
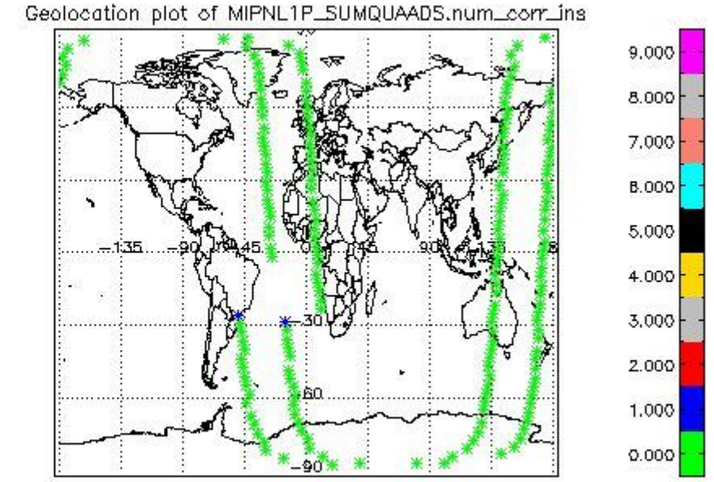
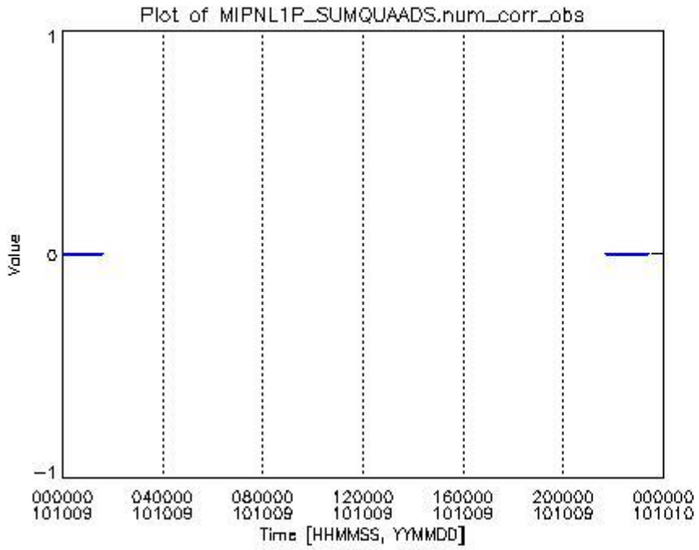
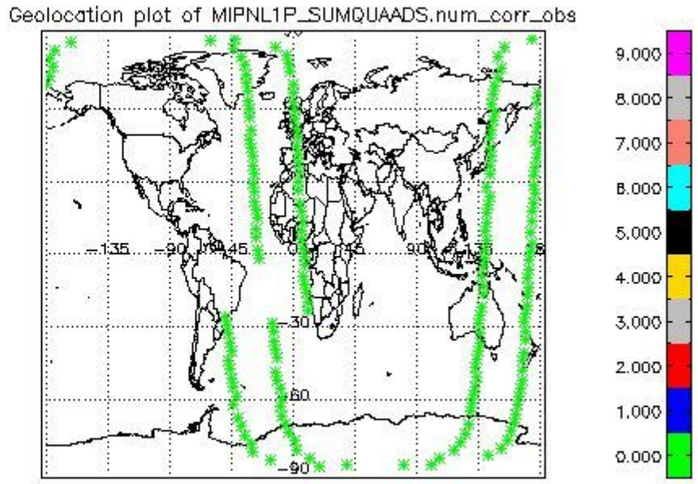
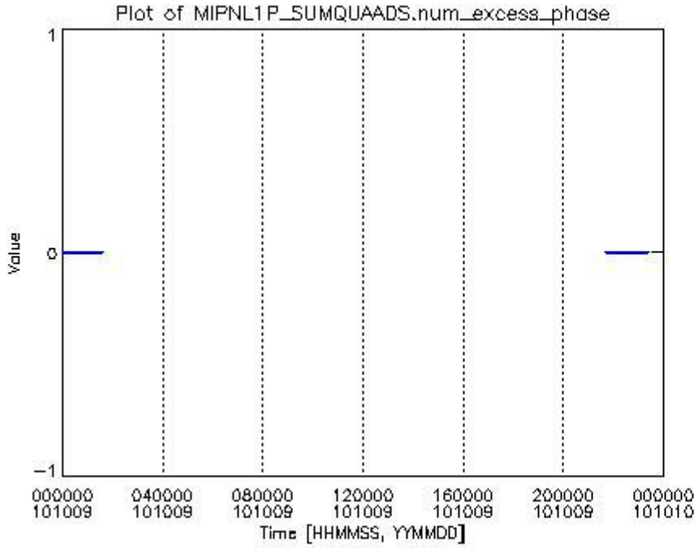
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

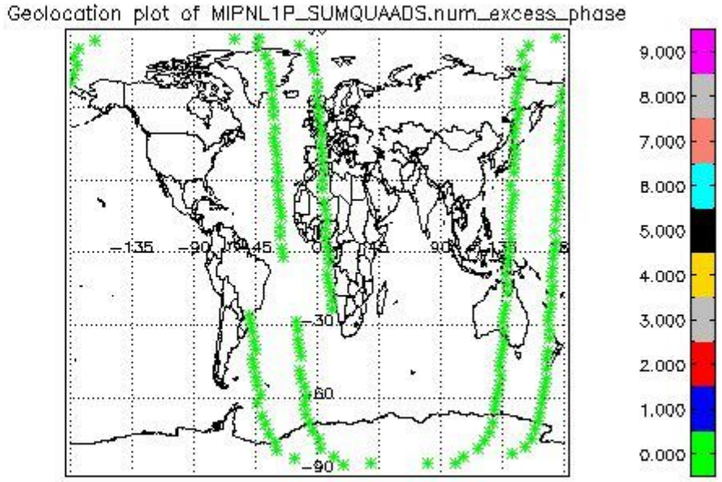

Plot of MIPNL1P_SUMQUAADS.num_corr_ins
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

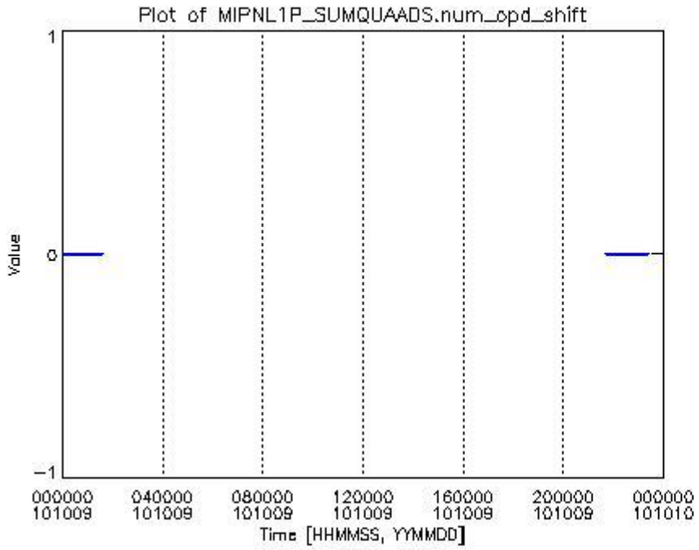

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins
-135
-90
-45
0
45
90
135
180
30
60
-90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

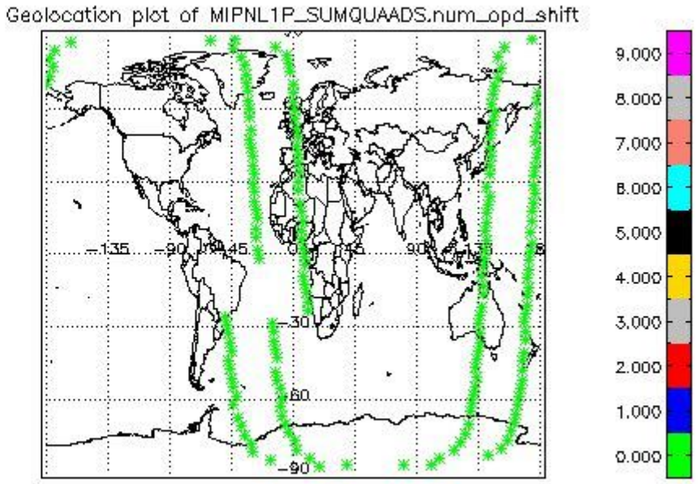

Plot of MIPNL1P_SUMQUAADS.num_corr_obs
Value
1
0
−1
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

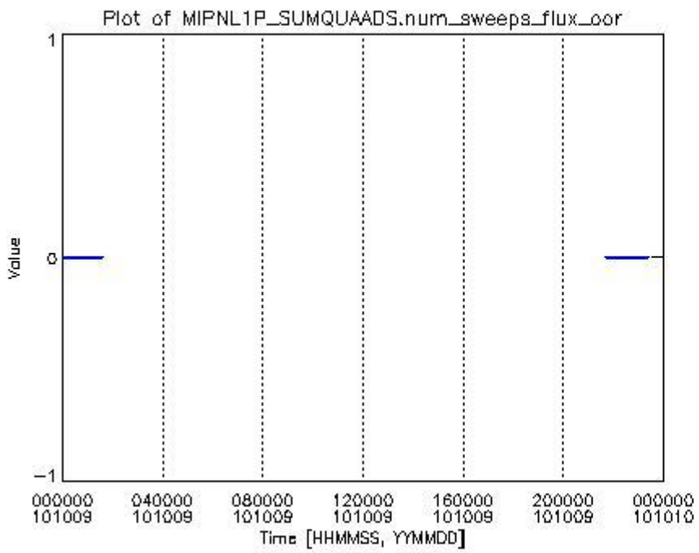

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

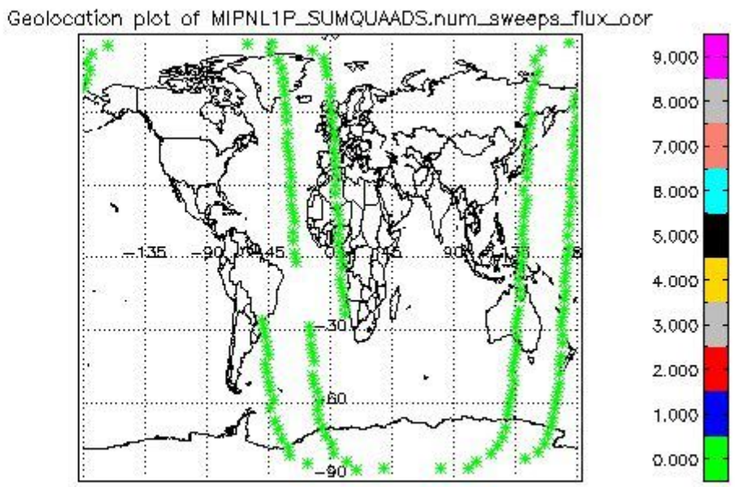

Plot of MIPNL1P_SUMQUAADS.num_excess_phase
Value
1
0
−1
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

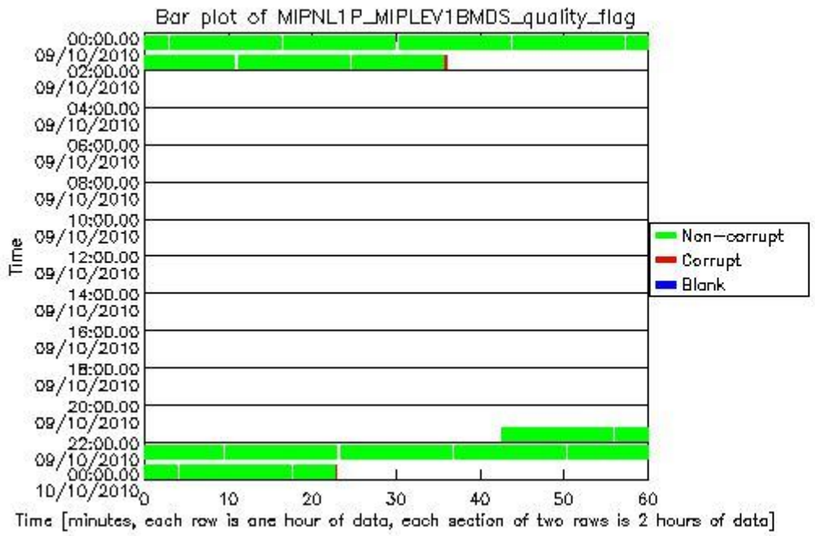


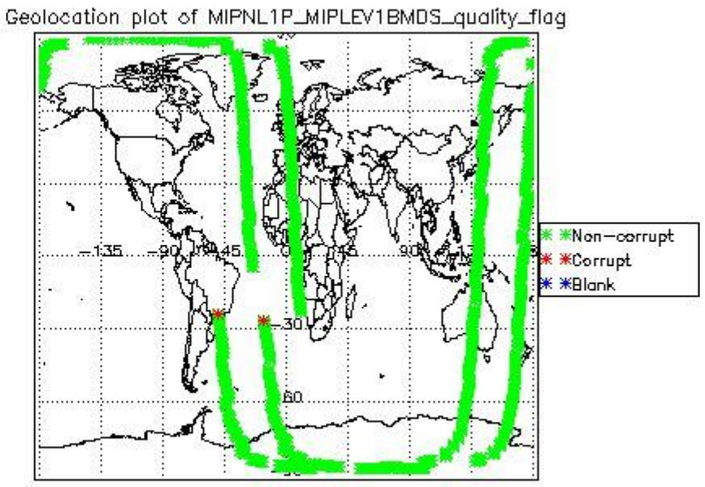


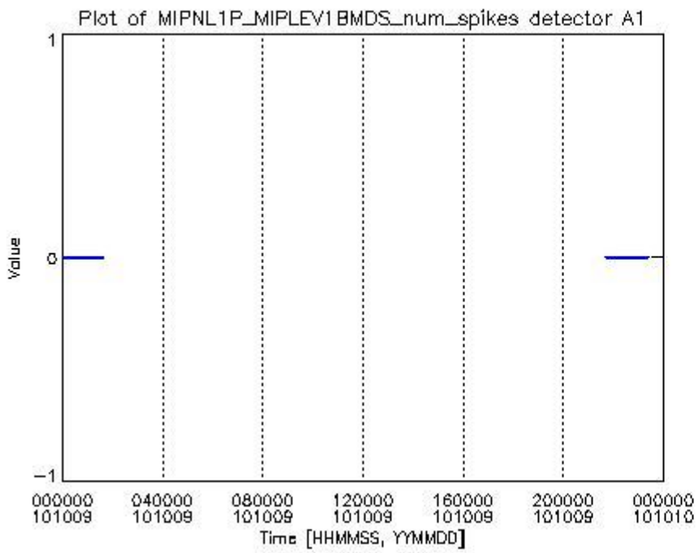


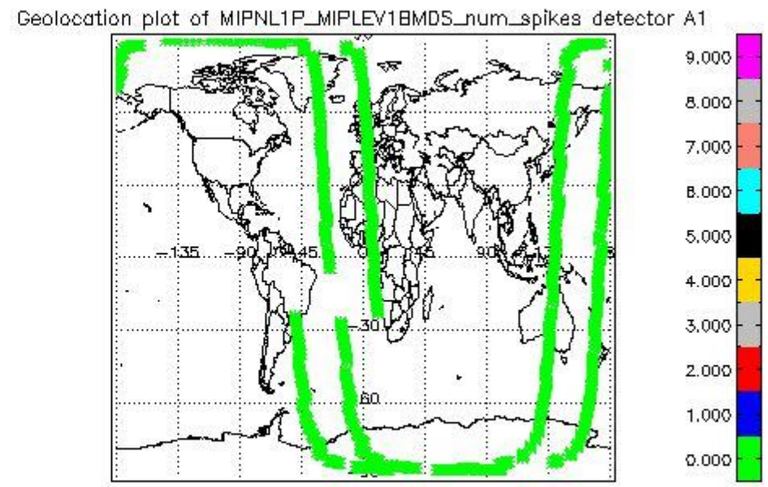


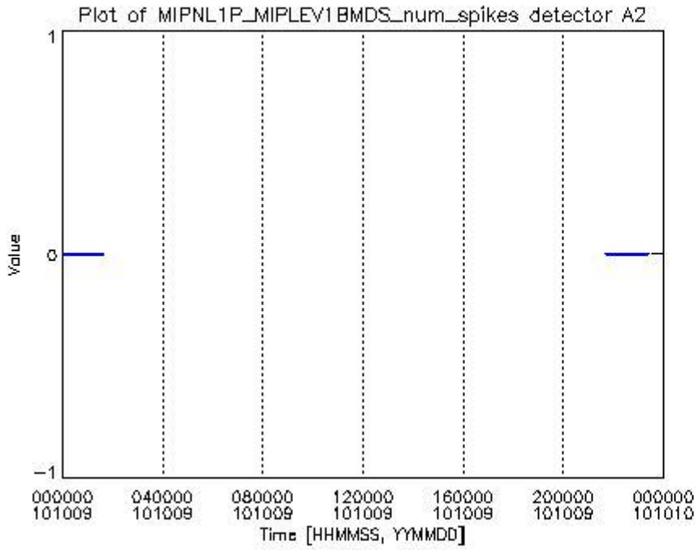
1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

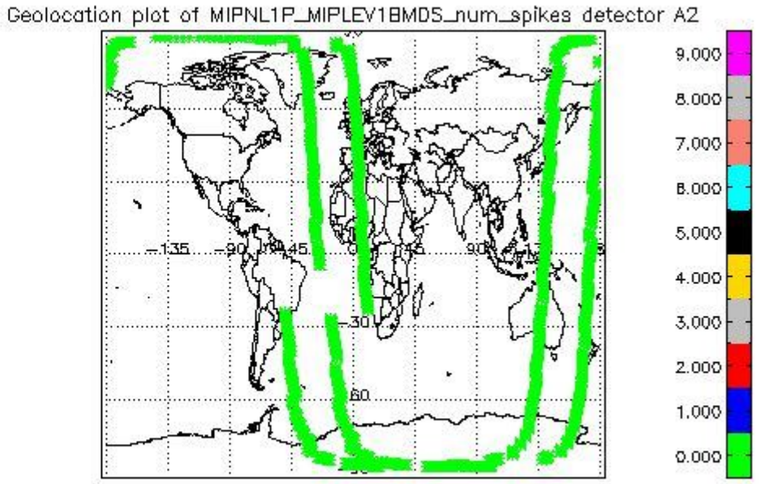

Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Non-corrupt
Corrupt
Blank

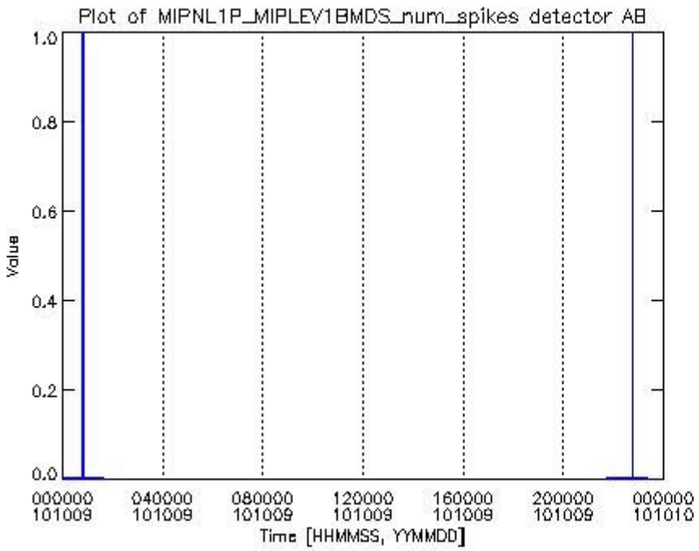

Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag
-135
-90
-45
0
45
90
-30
-60
Non-corrupt
Corrupt
Blank

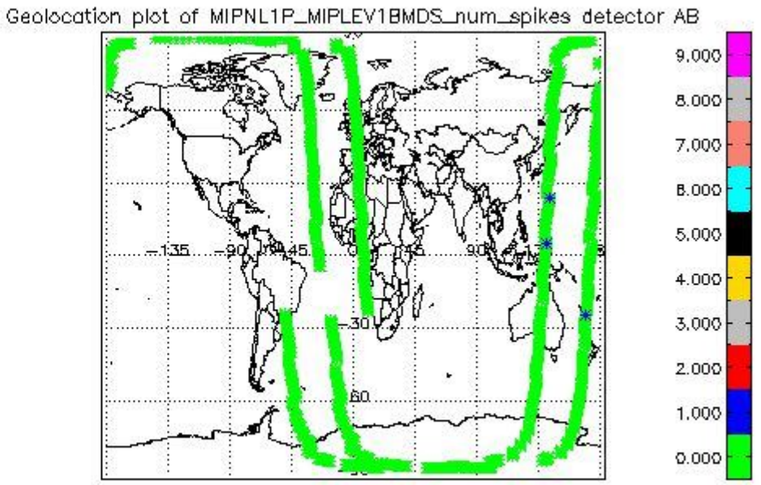

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
Value
1
0
-1
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

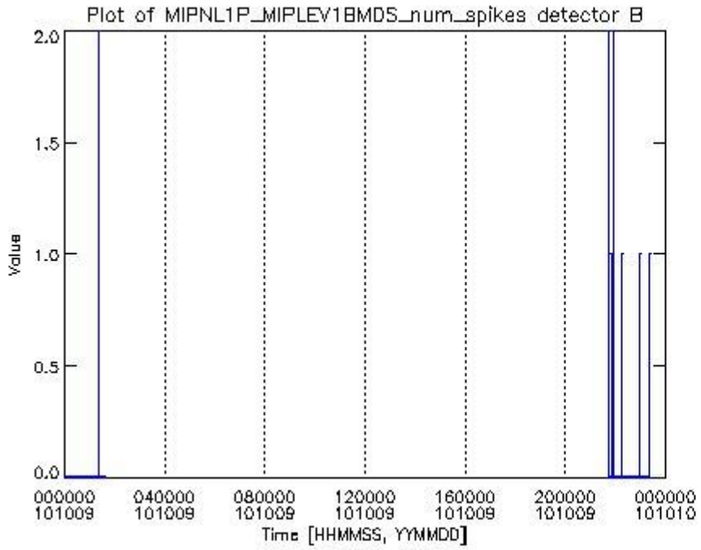

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
-135
-90
-45
0
45
90
-30
-60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

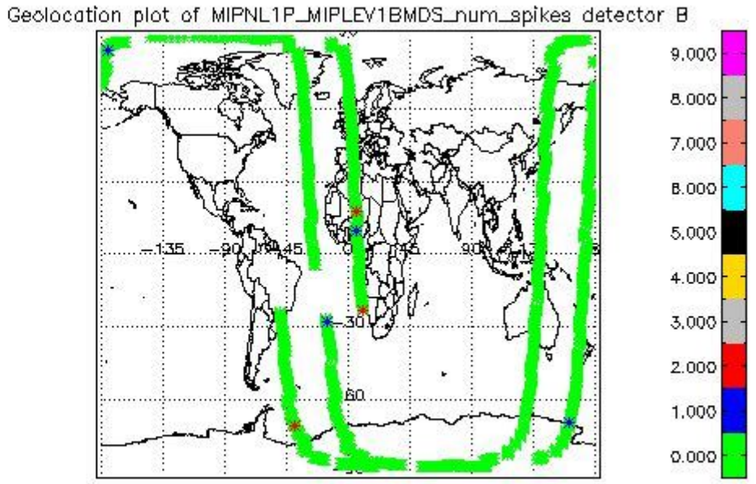

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
Value
1
0
−1
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

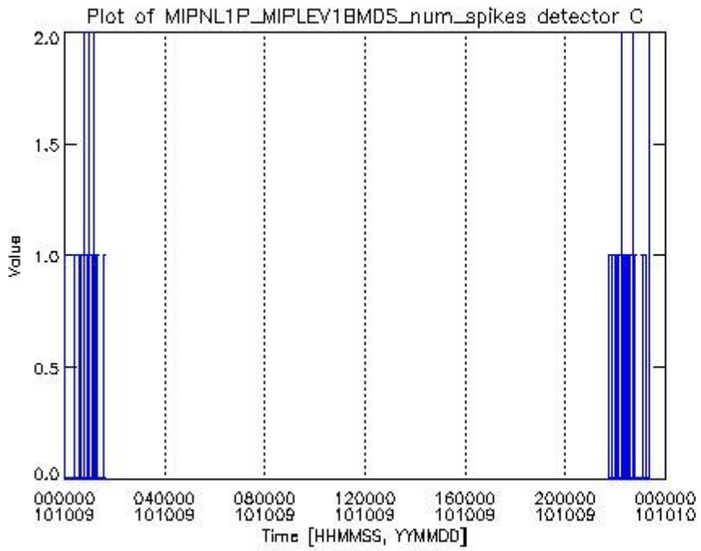

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
−135
−90
−45
0
45
90
−30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

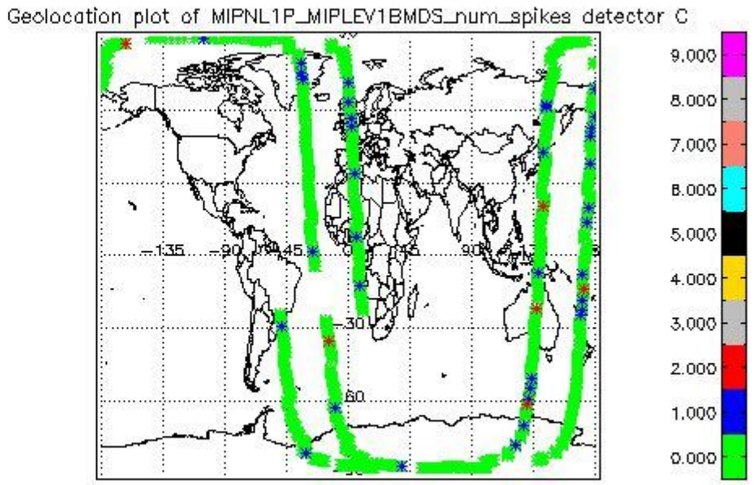

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

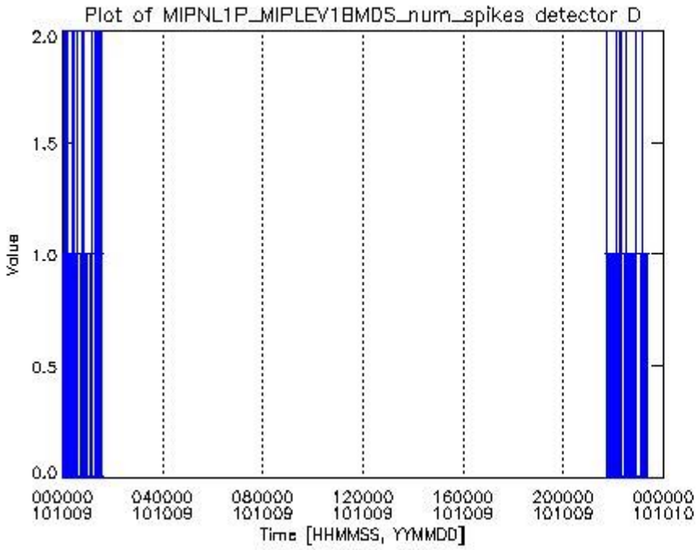

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
−135
−90
−45
0
45
90
−30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

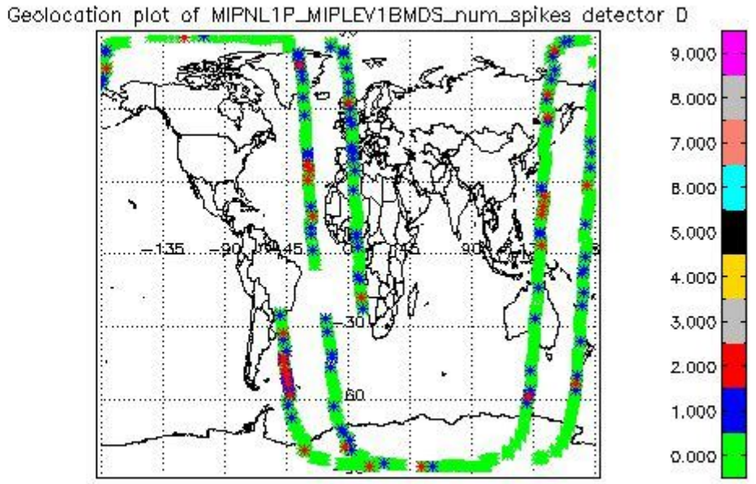

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

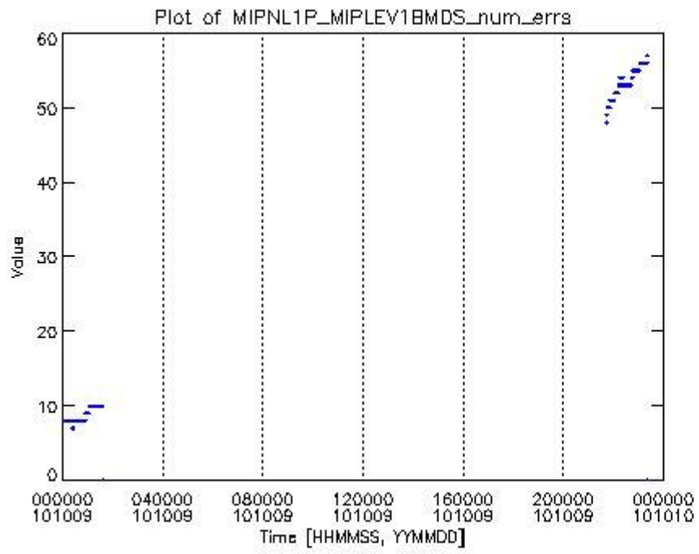

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
-135
-90
-45
0
45
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

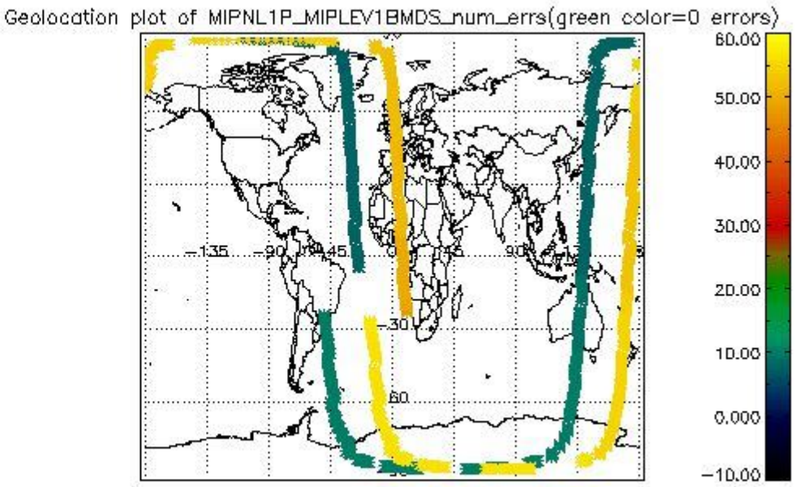

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

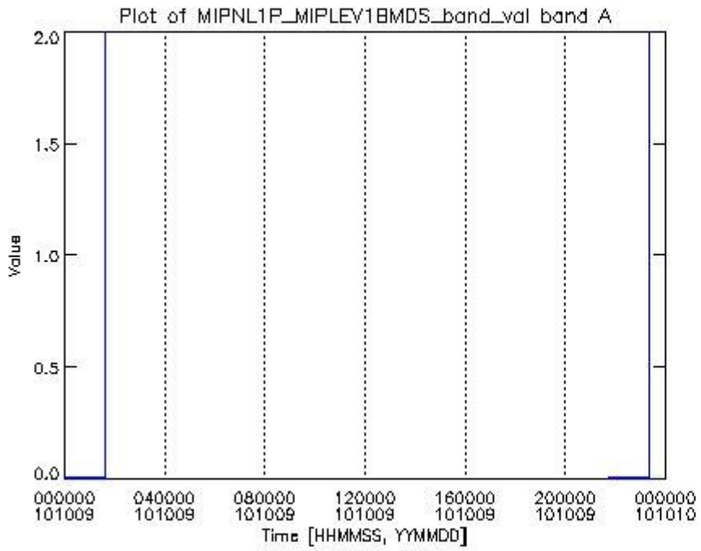

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
-135
-90
-45
0
45
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

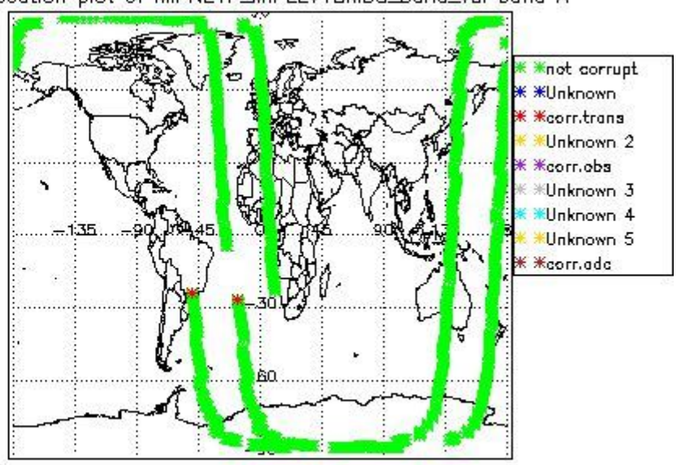

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

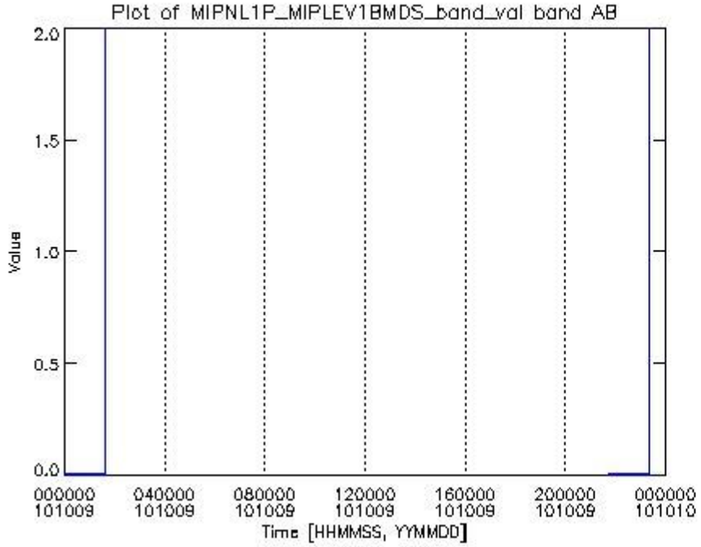

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

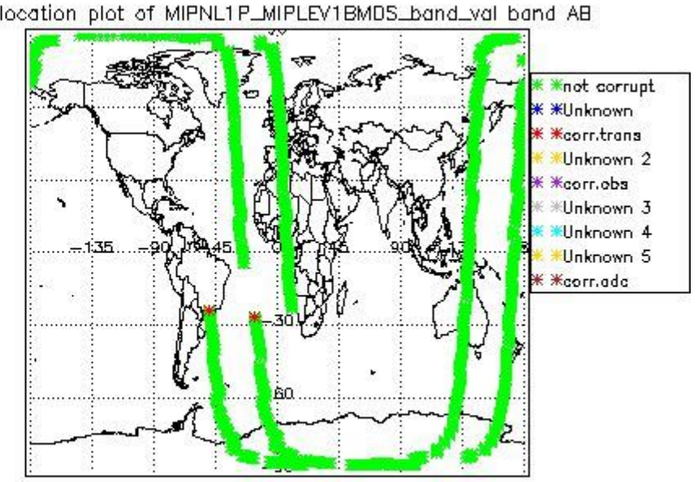

Plot of MIPNL1P_MIPLEV1BMDS_num_errs
Value
60
50
40
30
20
10
0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

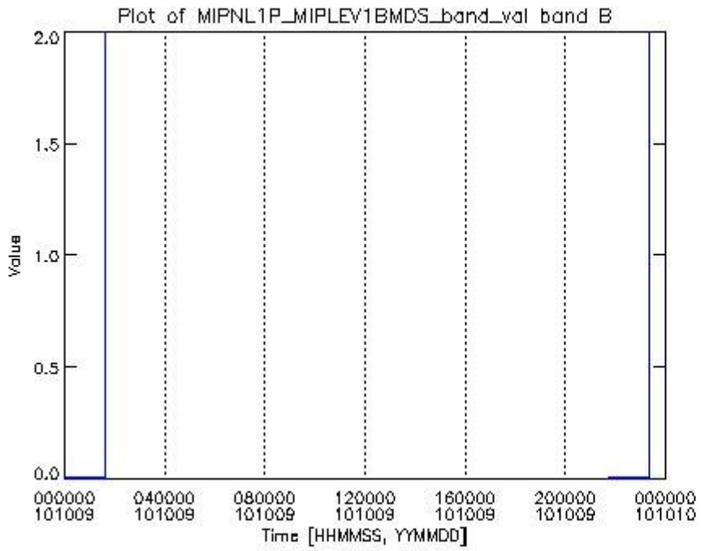

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs(green color=0 errors)
60.00
50.00
40.00
30.00
20.00
10.00
0.000
−10.00

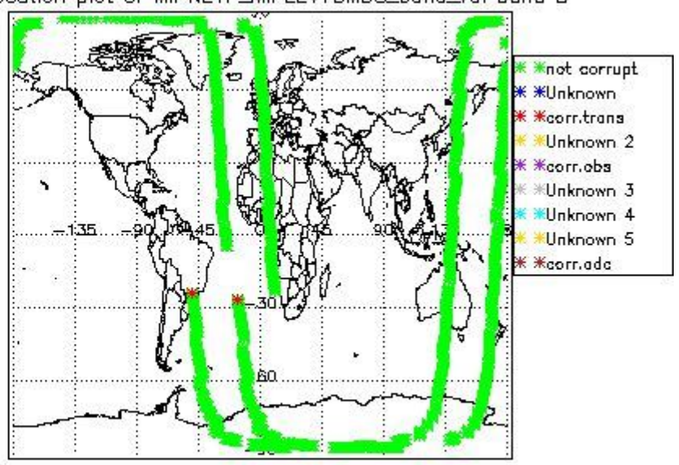

Plot of MIPNL1P_MIPLEV1BMDS_band_val band A
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

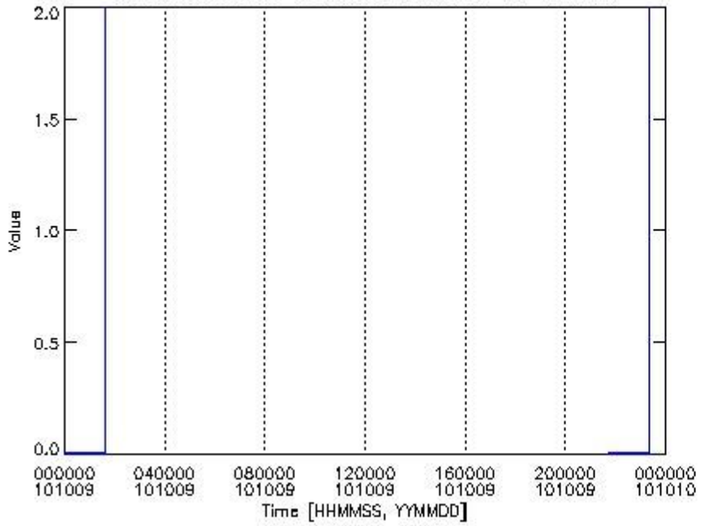

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
-30
60

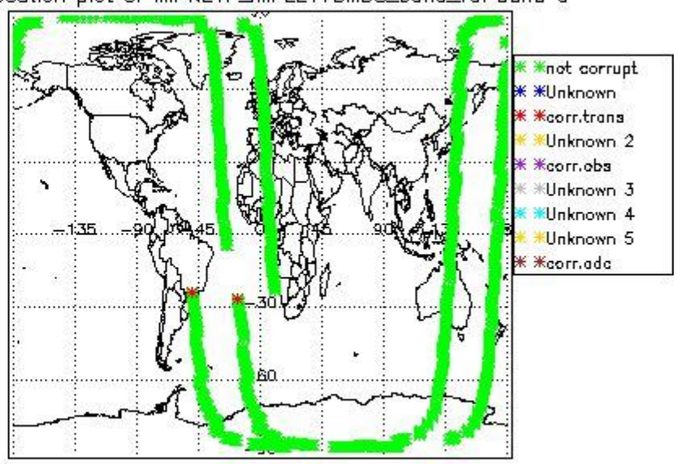

Plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

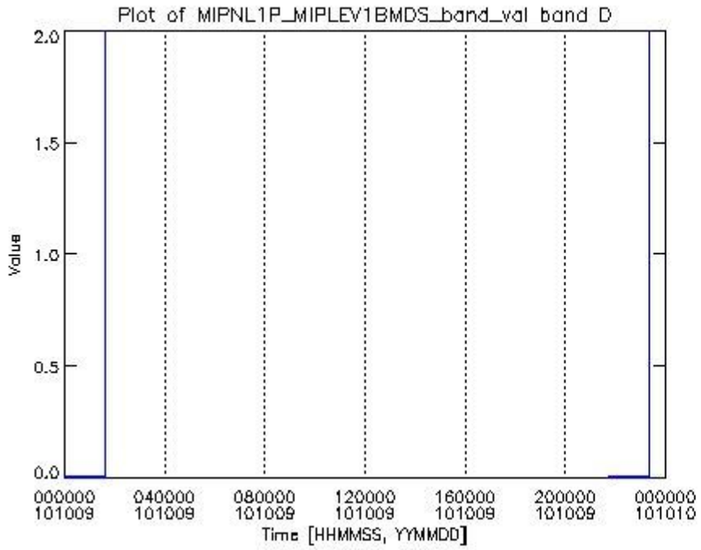

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
-30
60

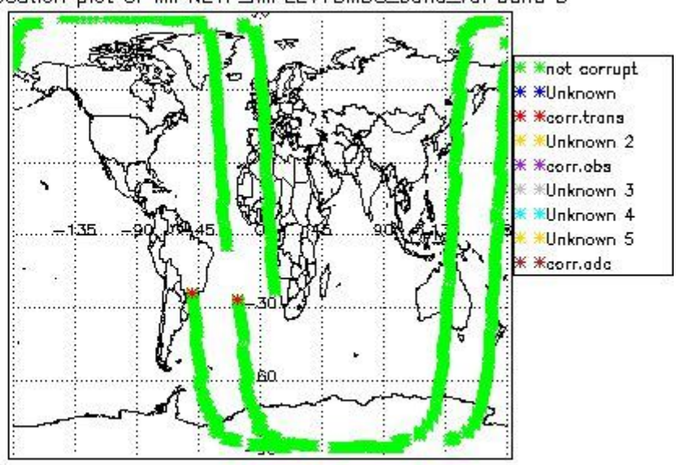

Plot of MIPNL1P_MIPLEV1BMDS_band_val band B
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

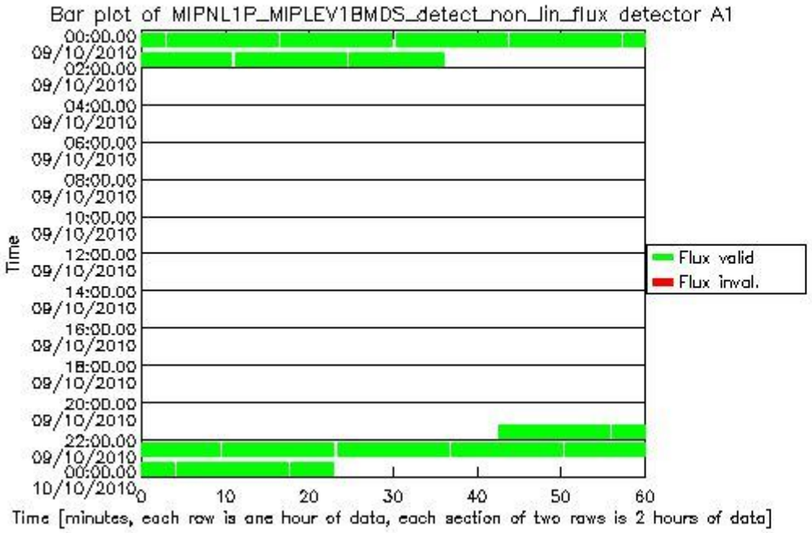

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
-30
60

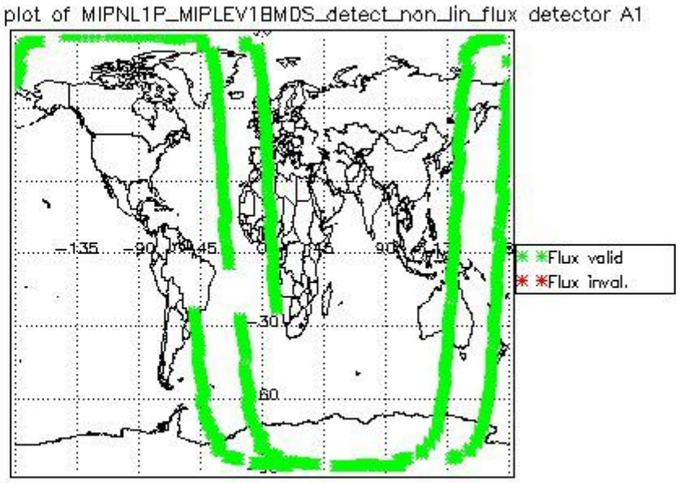

Plot of MIPNL1P_MIPLEV1BMDS_band_val band C
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
-30
60

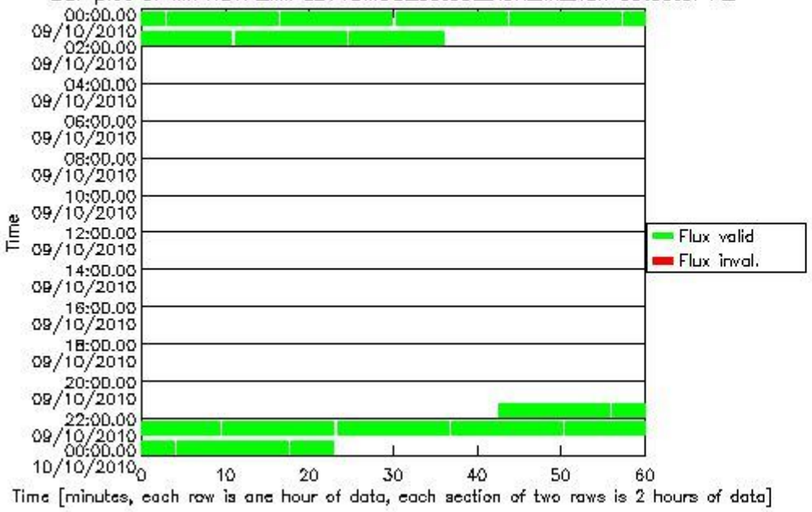

Plot of MIPNL1P_MIPLEV1BMDS_band_val band D
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
-30
60

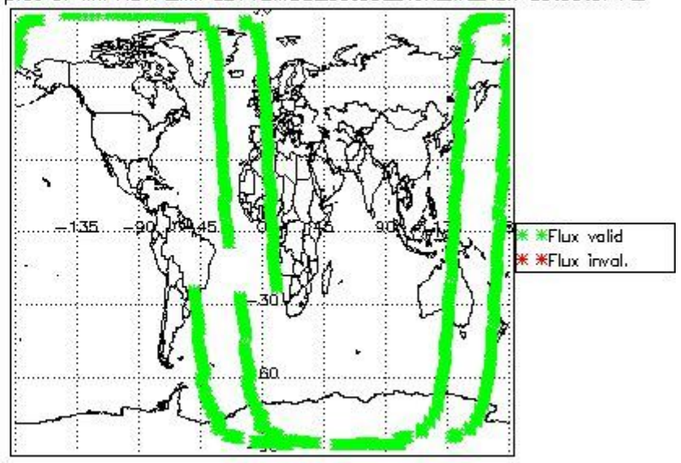

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two rows is 2 hours of data]
Flux valid
Flux inval.


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Flux valid
Flux inval.
-135
-90
-45
0
45
90
-30
60

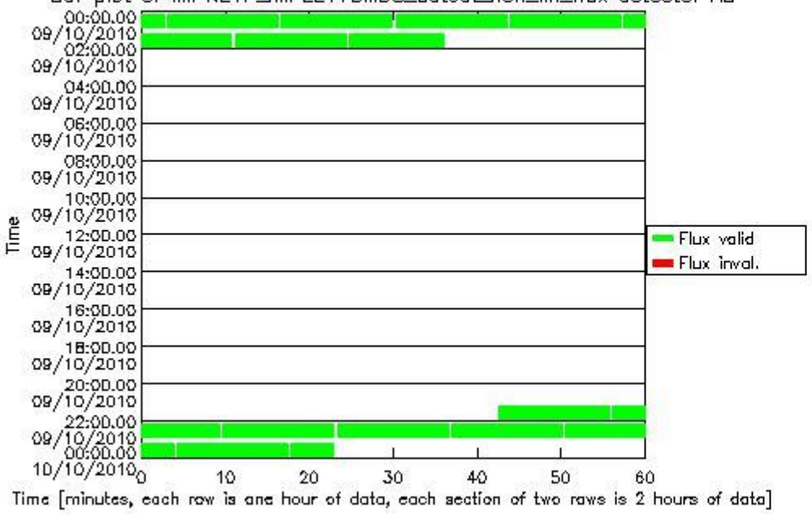
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2



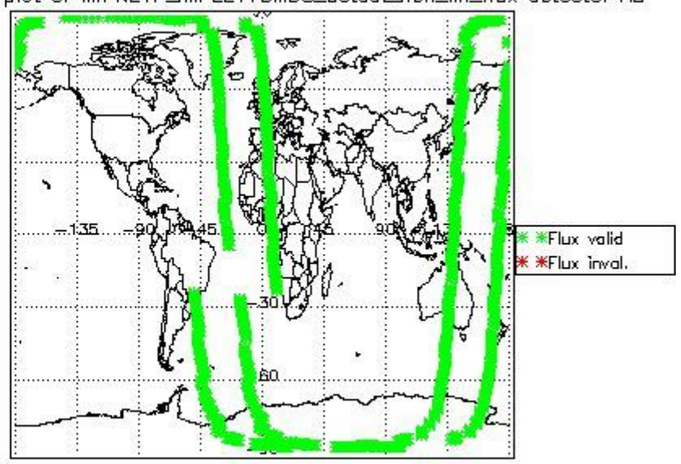
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2

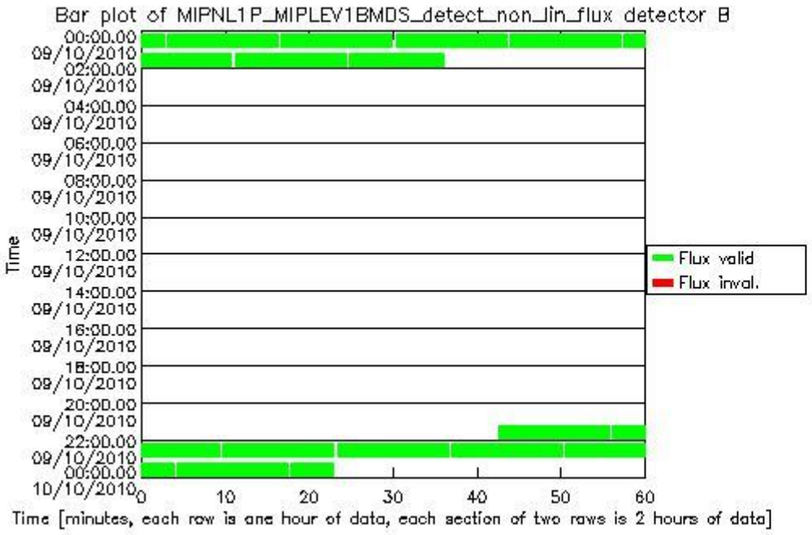


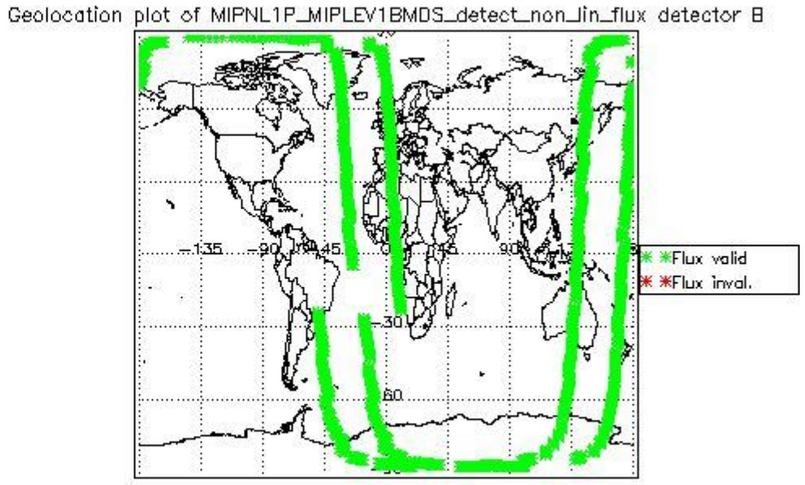
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



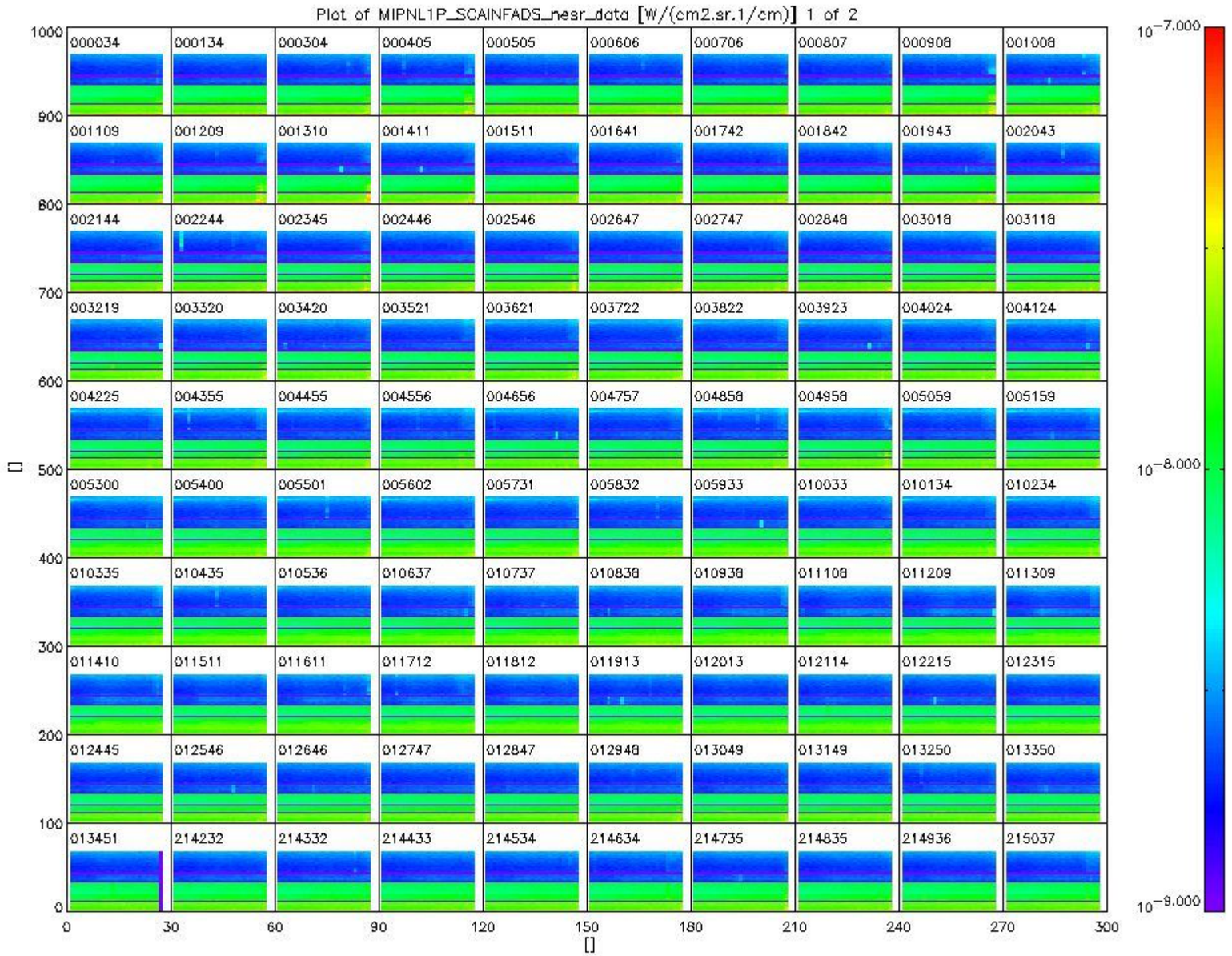




1.2.3 Scan information ADS

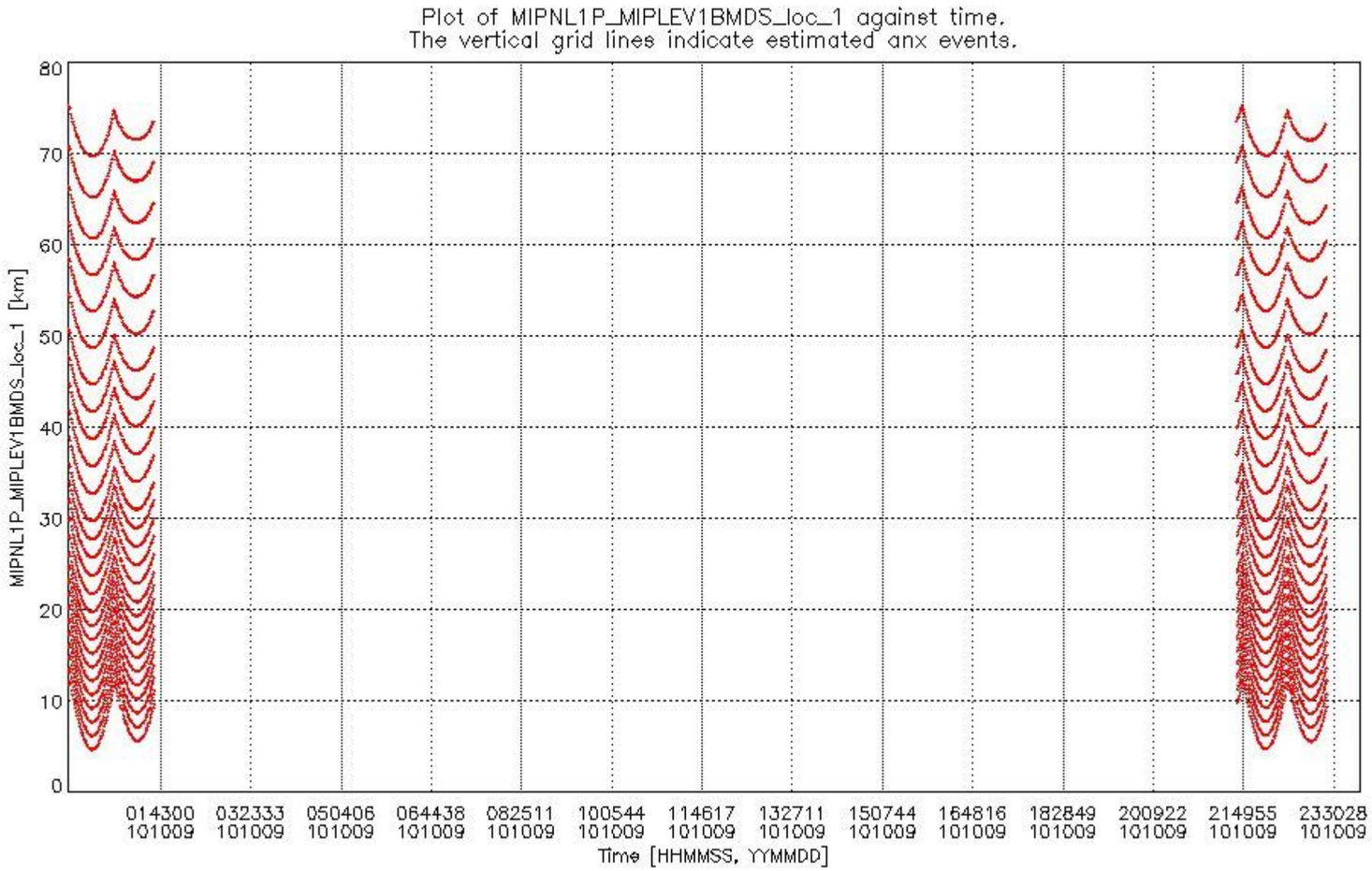
The following plots each contain 100 squares. Each square contains one NESR-scan (from MIPNL1P_SCAINFADS_nesr_data).

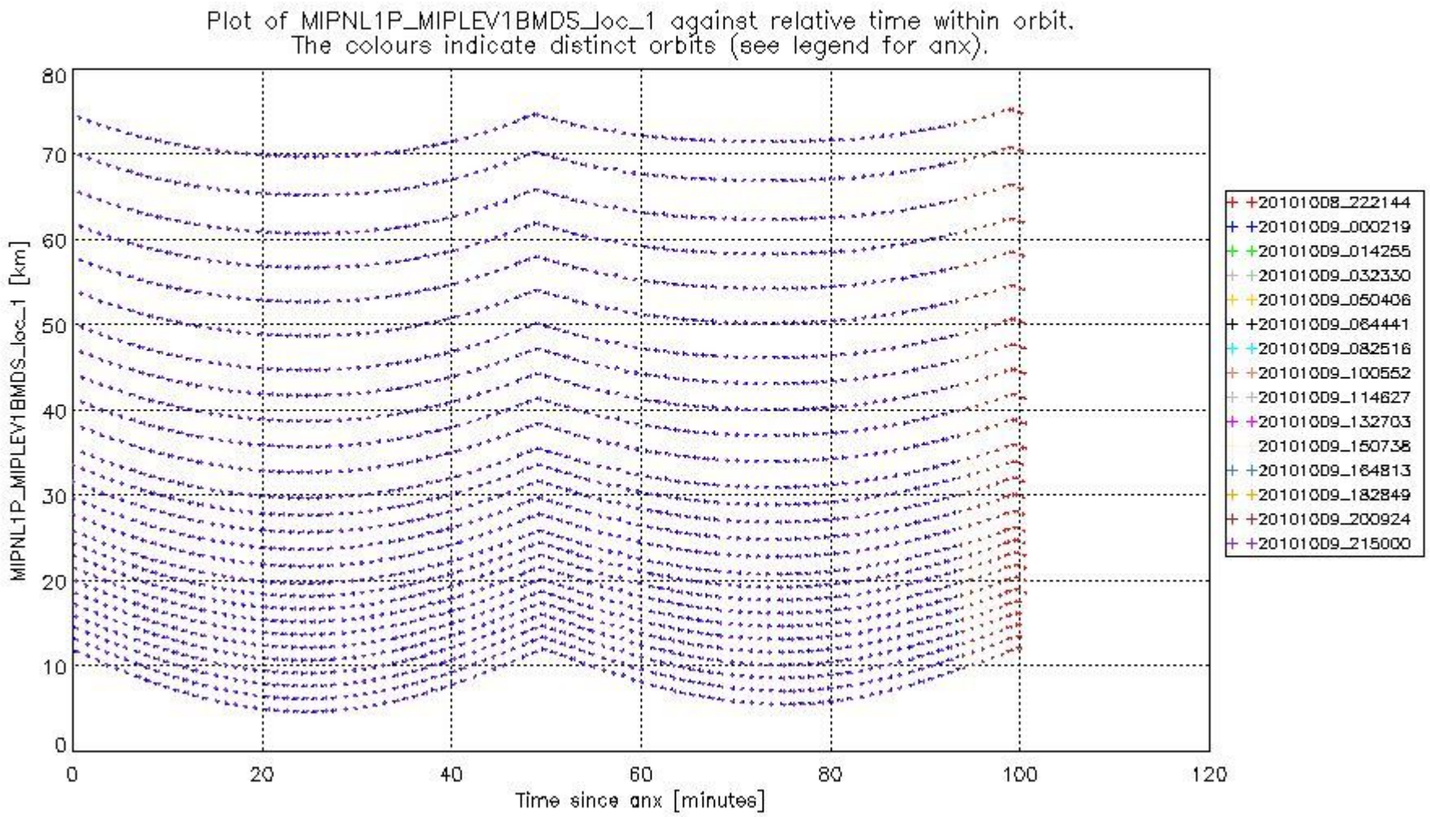
The horizontal axis represents the sweep ID (starts at 1).
The vertical axis shows the NESR data point index (starts at 0), which relates to wavenumber.
The data values themselves are indicated by colours (as indicated on the right of the plot). Please refer to the plot header for data units.


Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 1 of 2
000034 000134 000304 000405 000505 000606 000706 000807 000908 001008
001109 001209 001310 001411 001511 001641 001742 001842 001943 002043
002144 002244 002345 002446 002546 002647 002747 002848 003018 003118
003219 003320 003420 003521 003621 003722 003822 003923 004024 004124
004225 004355 004455 004556 004656 004757 004858 004958 005059 005159
005300 005400 005501 005602 005731 005832 005933 010033 010134 010234
010335 010435 010536 010637 010737 010838 010938 011108 011209 011309
011410 011511 011611 011712 011812 011913 012013 012114 012215 012315
012445 012546 012646 012747 012847 012948 013049 013149 013250 013350
013451 214232 214332 214433 214534 214634 214735 214835 214936 215037
1000
900
800
700
600
500
400
300
200
100
0
[]
0 30 60 90 120 150 180 210 240 270 300
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$

1.3 Physical Quality Indicators

1.3.1 Tangent altitude


Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against time.
The vertical grid lines indicate estimated anx events.
MIPNL1P_MIPLEV1BMDS_loc_1 [km]
0
10
20
30
40
50
60
70
80
014300 101009
032333 101009
050406 101009
064438 101009
082511 101009
100544 101009
114617 101009
132711 101009
150744 101009
164816 101009
182849 101009
200922 101009
214955 101009
233028 101009
Time [HHMMSS, YYMMDD]



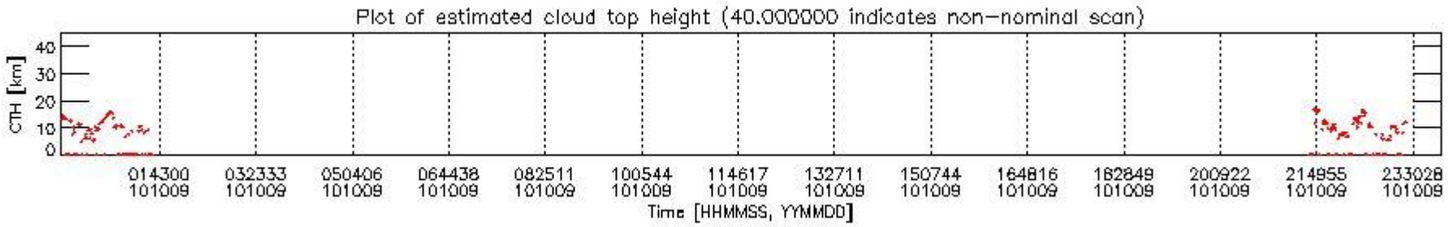
1.3.2 Cloud top height

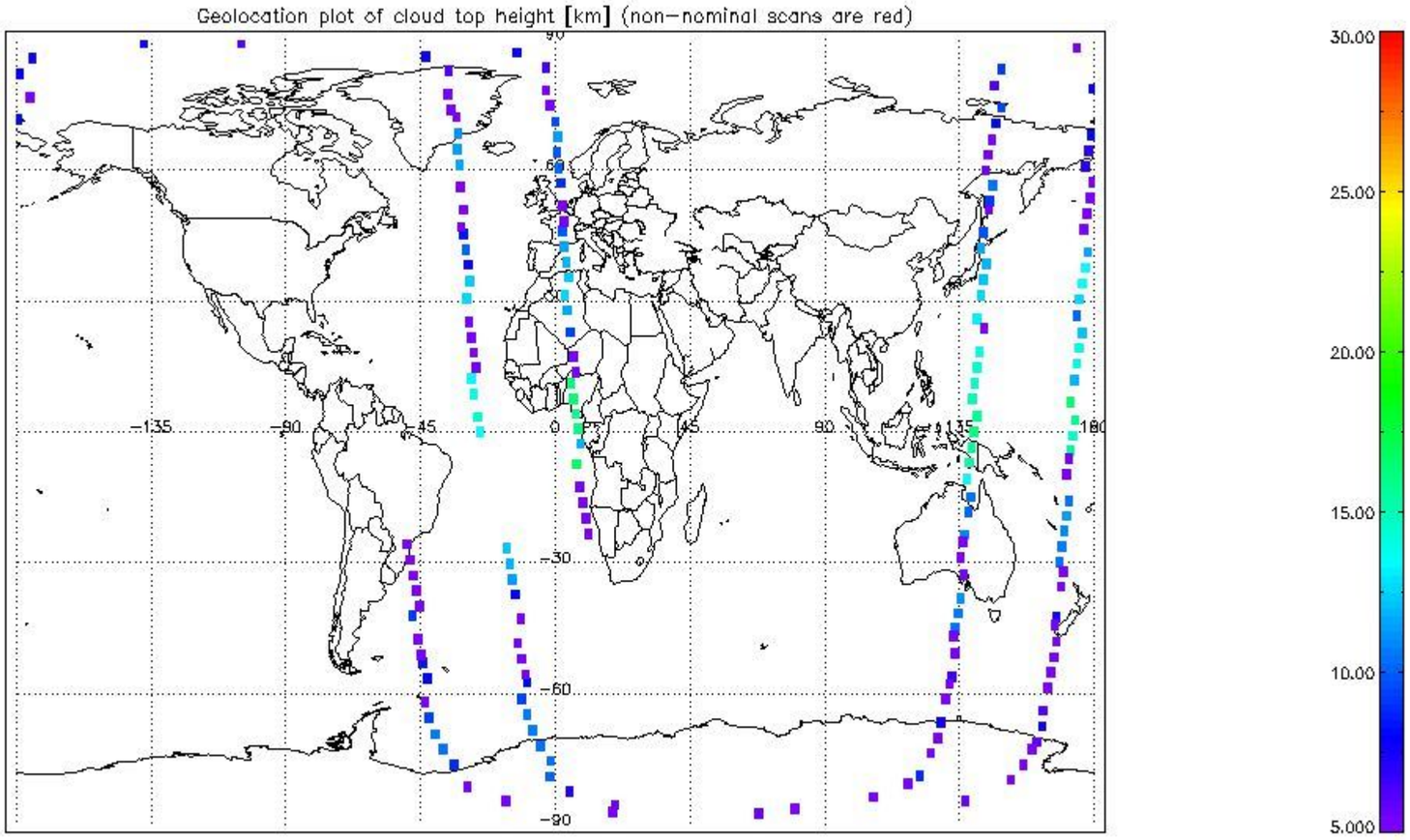
The following plots show an estimation of cloud top height, based on the ratio of two microwindows. Reference: R. Spang, J.J. Remedios and M.P. Barkley, "Colour indices for the detection and differentiation of cloud types in infra-red limb emission spectra", Adv Space Res, 33:1041-1047, (2004)

The non-nominal scans mentioned in the plots are scans that are rejected by the cloud top height algorithm for several reasons:

- Unconsidered instrument mode. The algorithm only considers nominal (39169) and special event (39172) instrument modes.
- Incomplete scan (missing sweeps)

Item	Value
Microwindow 1 description	Average of band A pixels for cloud top detection 1
Microwindow 2 description	Average of band A pixels cloud top detection 2
cloud index threshold (mw1/mw2)	1.8000000
Tangent height limit	40.000000

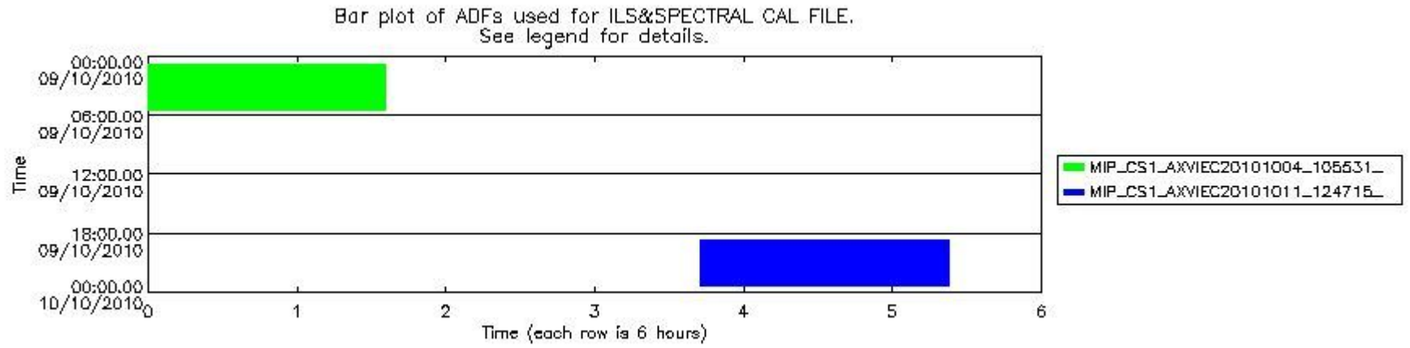


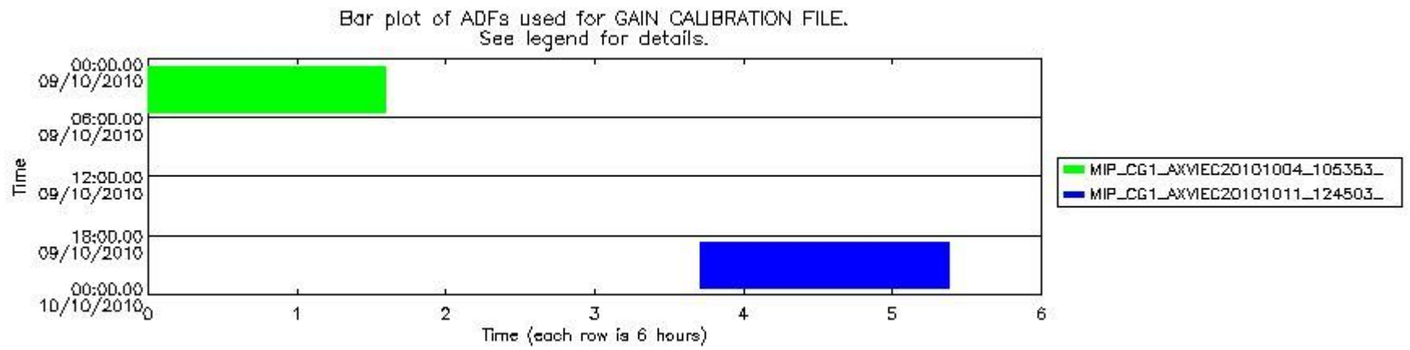


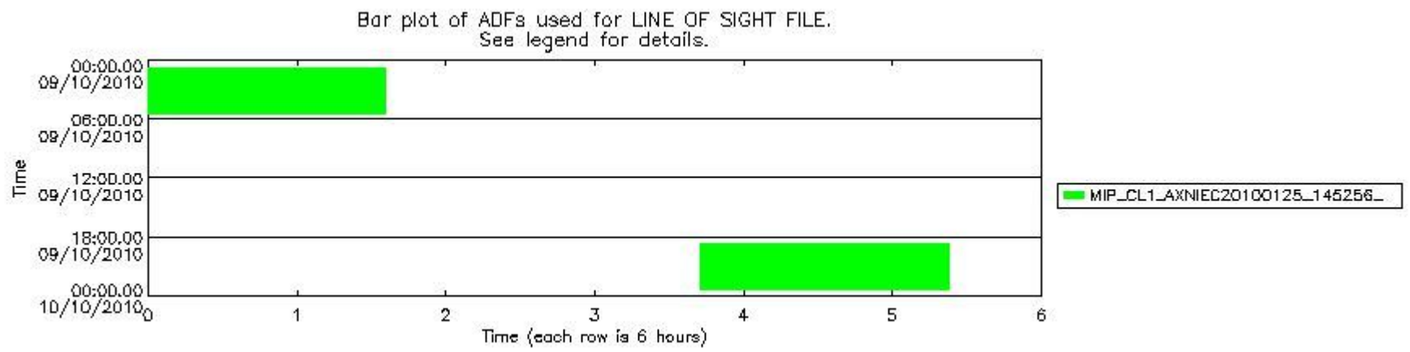
1.4 ADF monitoring

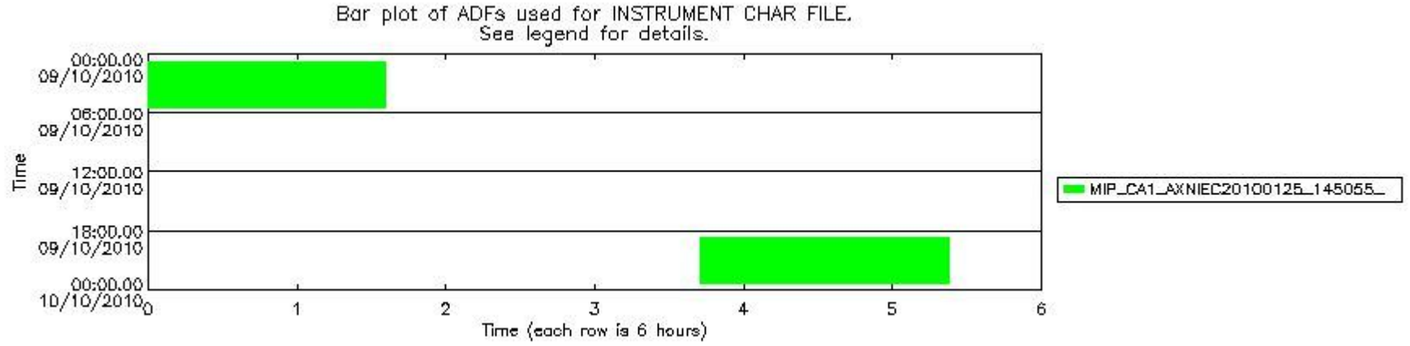
Number	ADF
0	AUX_FRO_AXVPDS20101012_092758_20101008_221000_20101011_005000
1	MIP_CA1_AXNIEC20100125_145055_20100122_000000_20150122_000000
2	MIP_CG1_AXVIEC20101004_105353_20101002_000000_20151002_000000
3	MIP_CG1_AXVIEC20101011_124503_20101009_000000_20151009_000000
4	MIP_CL1_AXNIEC20100125_145256_20100122_000000_20150122_000000
5	MIP_CO1_AXVIEC20101004_105450_20101002_000000_20151002_000000
6	MIP_CO1_AXVIEC20101011_124621_20101009_000000_20151009_000000
7	MIP_CS1_AXVIEC20101004_105531_20101002_000000_20151002_000000
8	MIP_CS1_AXVIEC20101011_124715_20101009_000000_20151009_000000
9	MIP_MW1_AXNIEC20100125_145445_20100122_000000_20150122_000000
10	MIP_PS1_AXNIEC20100125_145601_20100122_000000_20150122_000000

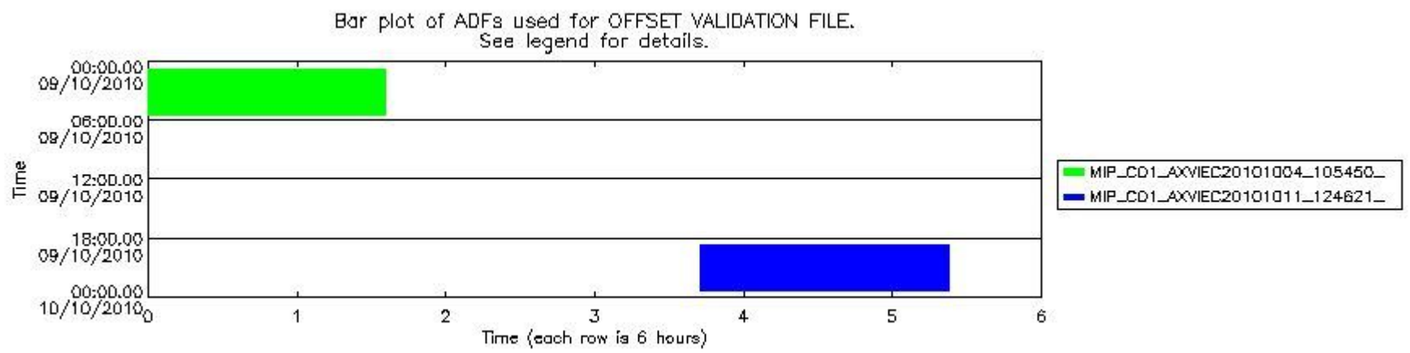
Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL__1PRDPA20101008_235430_000060752093_00360_45003_6204.N1	7	2	4	1	5	9	10	0
1	MIP_NL__1PRDPA20101009_214232_000060152093_00373_45016_6230.N1	8	3	4	1	6	9	10	0

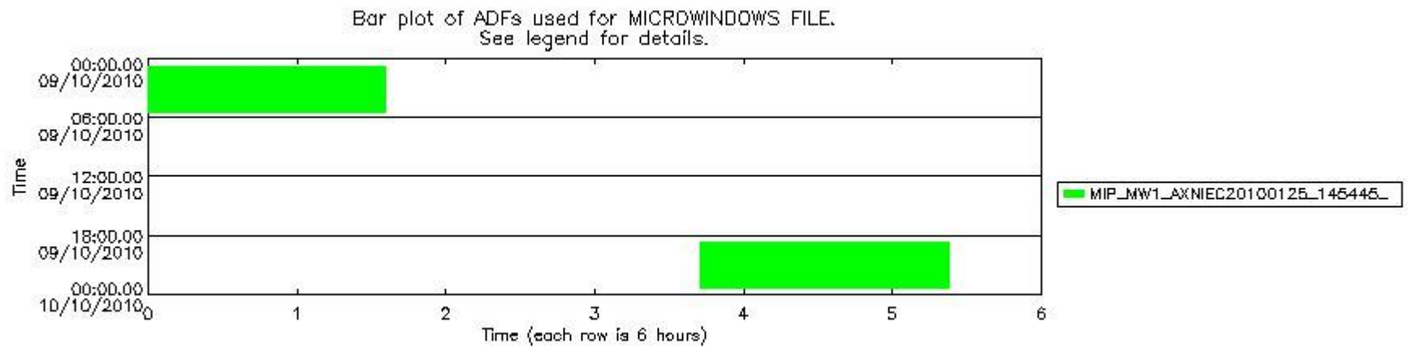


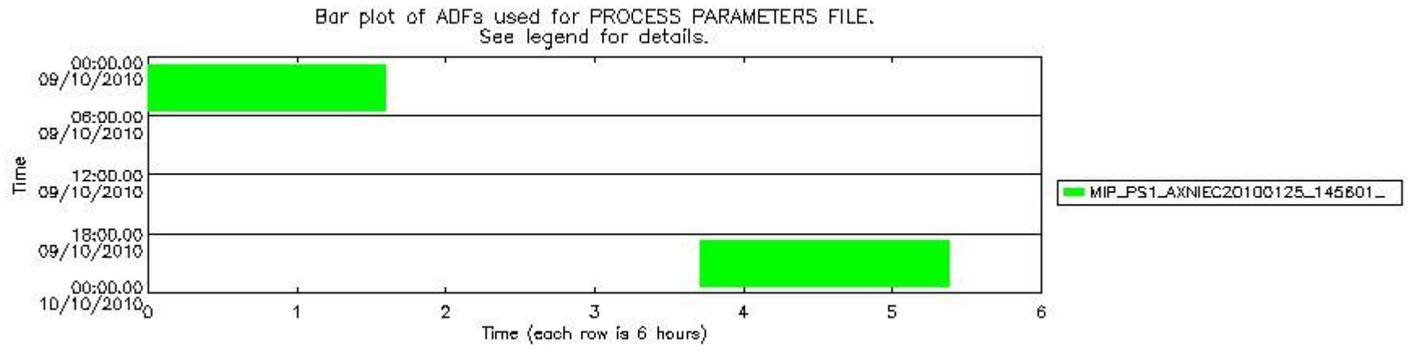


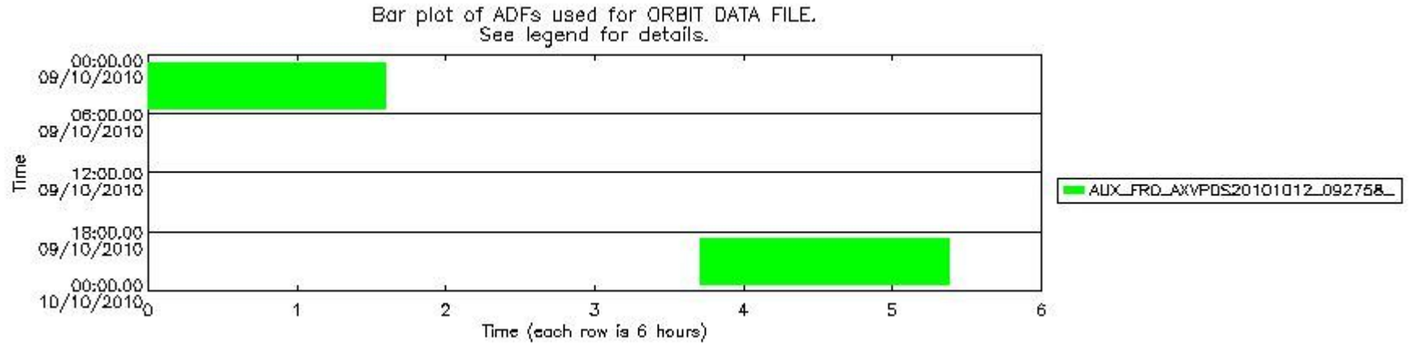


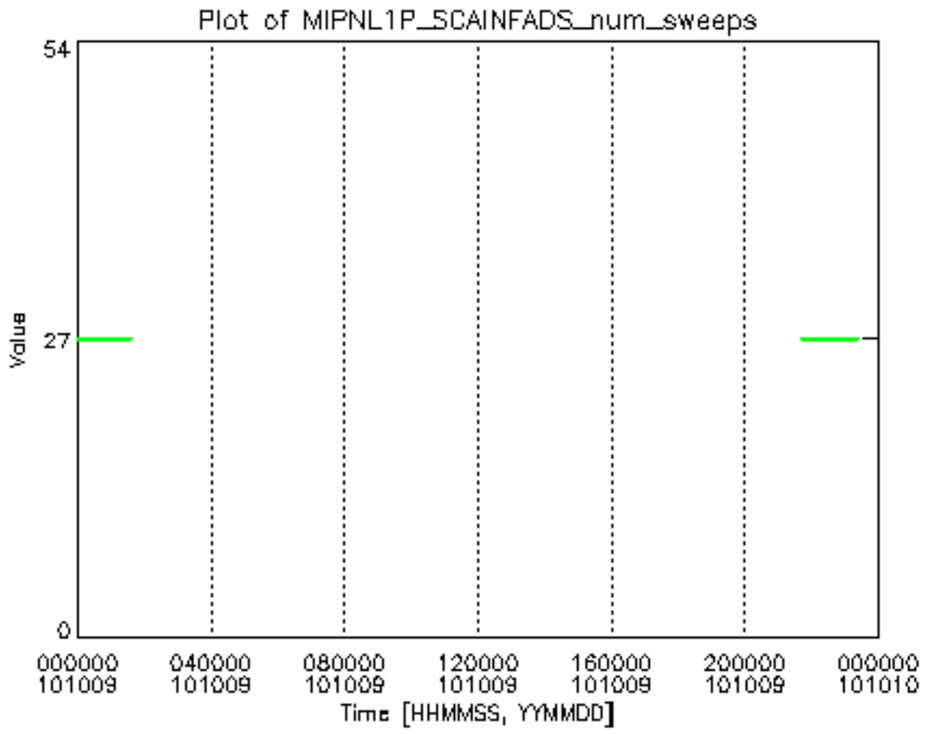

Bar plot of ADFs used for INSTRUMENT CHAR FILE.
See legend for details.
Time
00:00.00 09/10/2010
06:00.00 09/10/2010
12:00.00 09/10/2010
18:00.00 09/10/2010
00:00.00 10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CA1_AXNIEC20100125_145055_

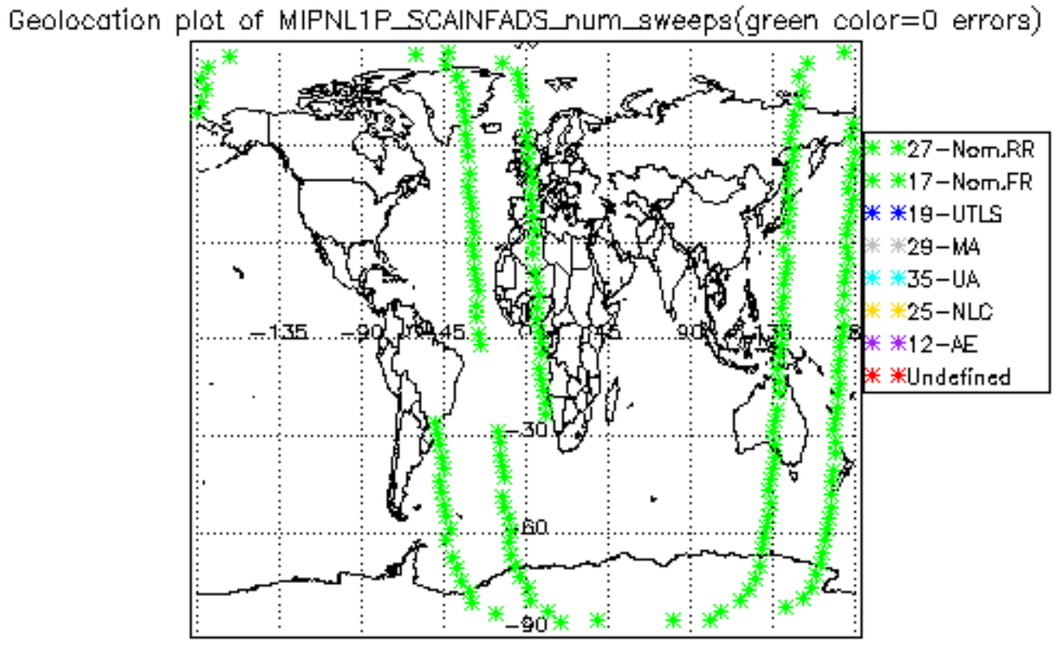

Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.
Time
00:00.00 09/10/2010
06:00.00 09/10/2010
12:00.00 09/10/2010
18:00.00 09/10/2010
00:00.00 10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CD1_AXVIEC20101004_105450_
MIP_CD1_AXVIEC20101011_124621_

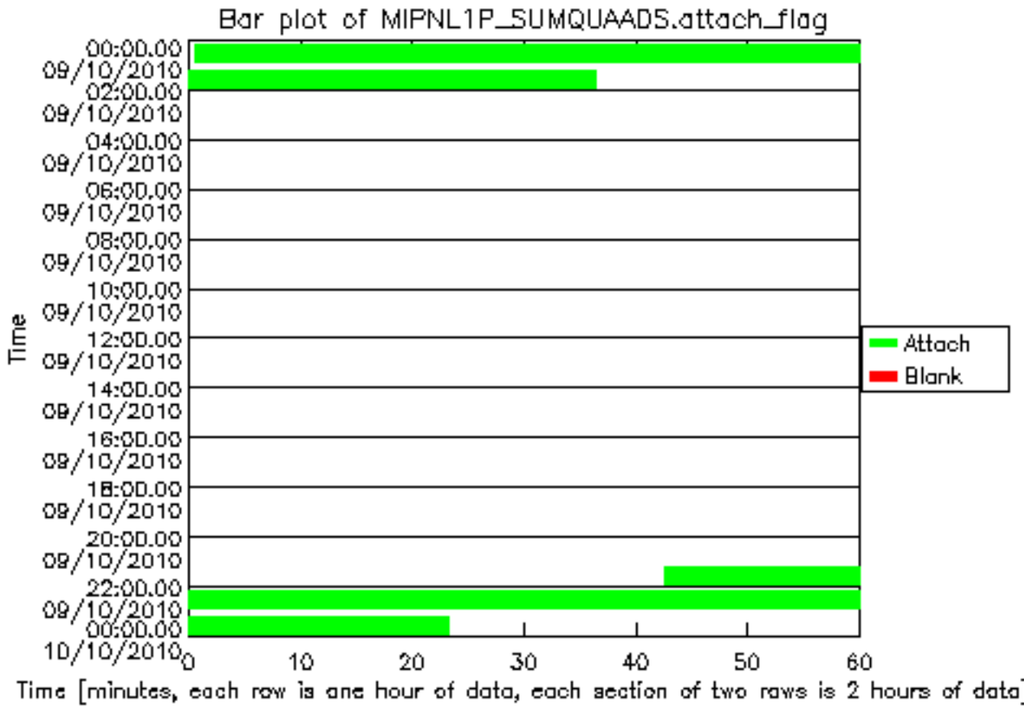

Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.
Time
00:00.00 09/10/2010
06:00.00 09/10/2010
12:00.00 09/10/2010
18:00.00 09/10/2010
00:00.00 10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_MW1_AXNIEC20100125_145445_

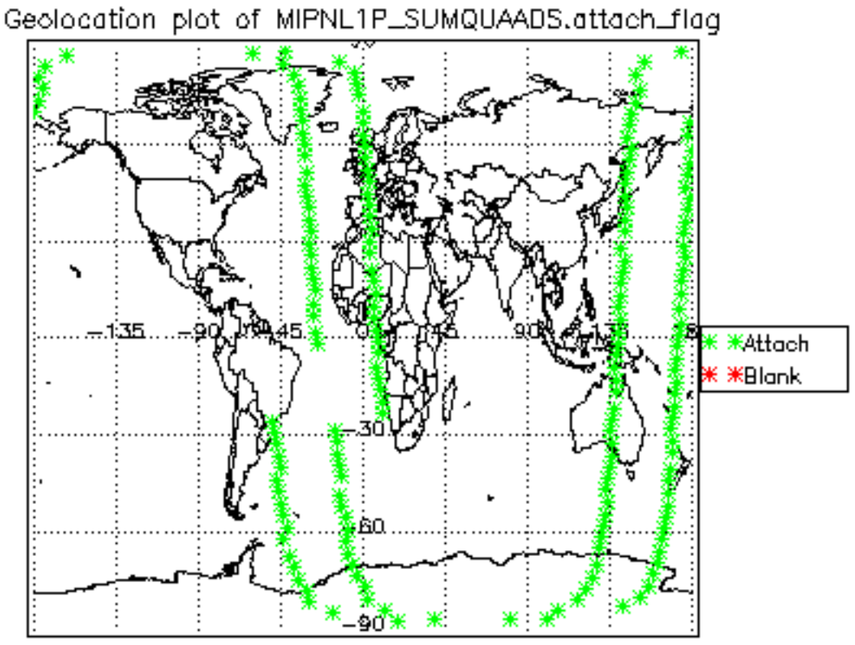

Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.
Time
00:00.00 09/10/2010
06:00.00 09/10/2010
12:00.00 09/10/2010
18:00.00 09/10/2010
00:00.00 10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_PS1_AXNIEC20100125_145601_

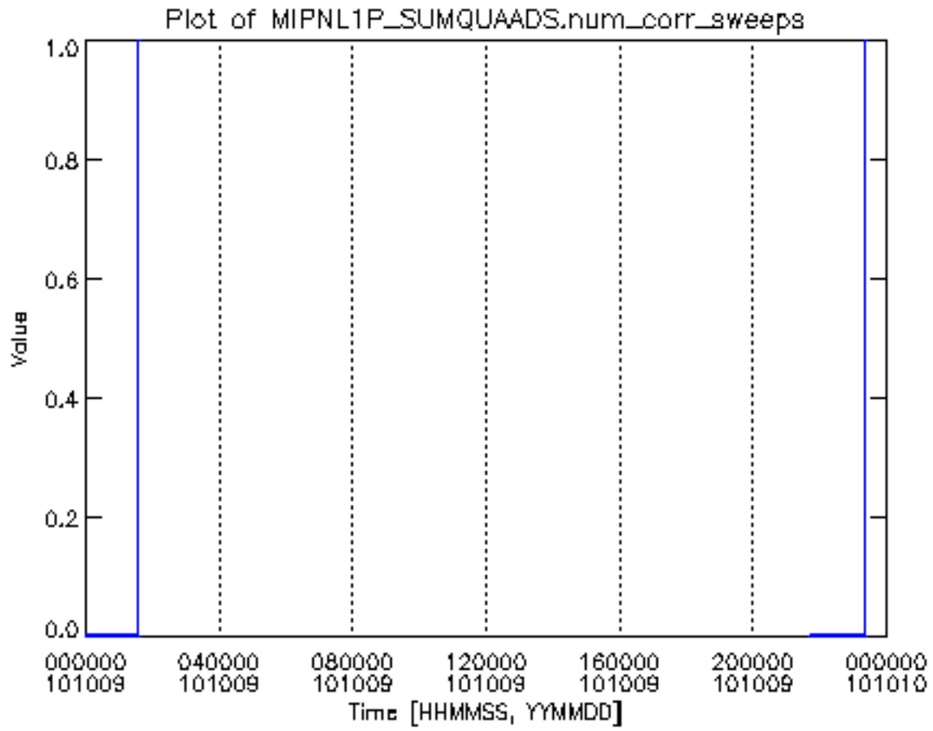

Bar plot of ADFs used for ORBIT DATA FILE.
See legend for details.
Time
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FRO_AXVPDS20101012_092758_

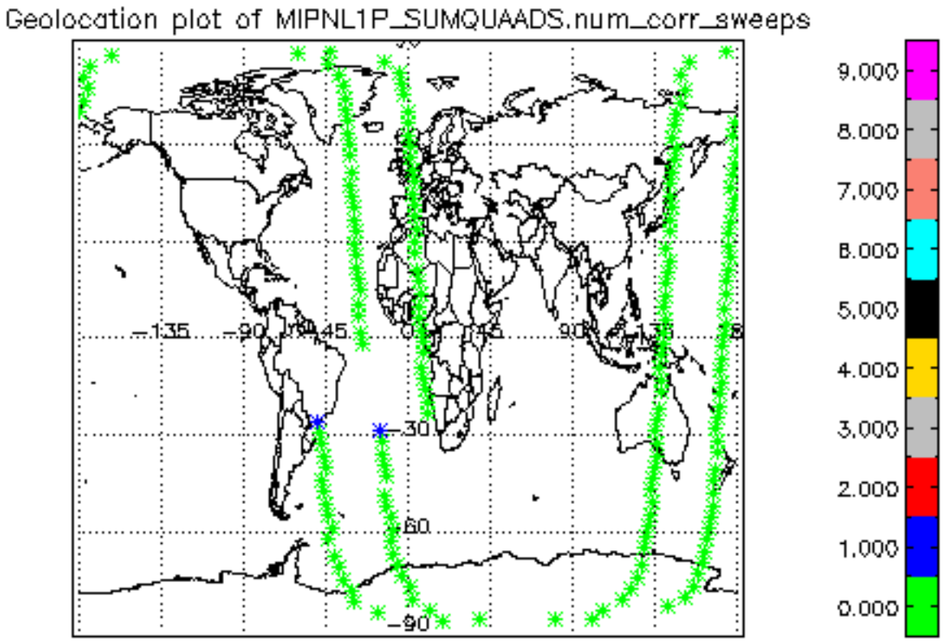

Plot of MIPNL1P_SCAINFADS_num_sweeps
54
27
0
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

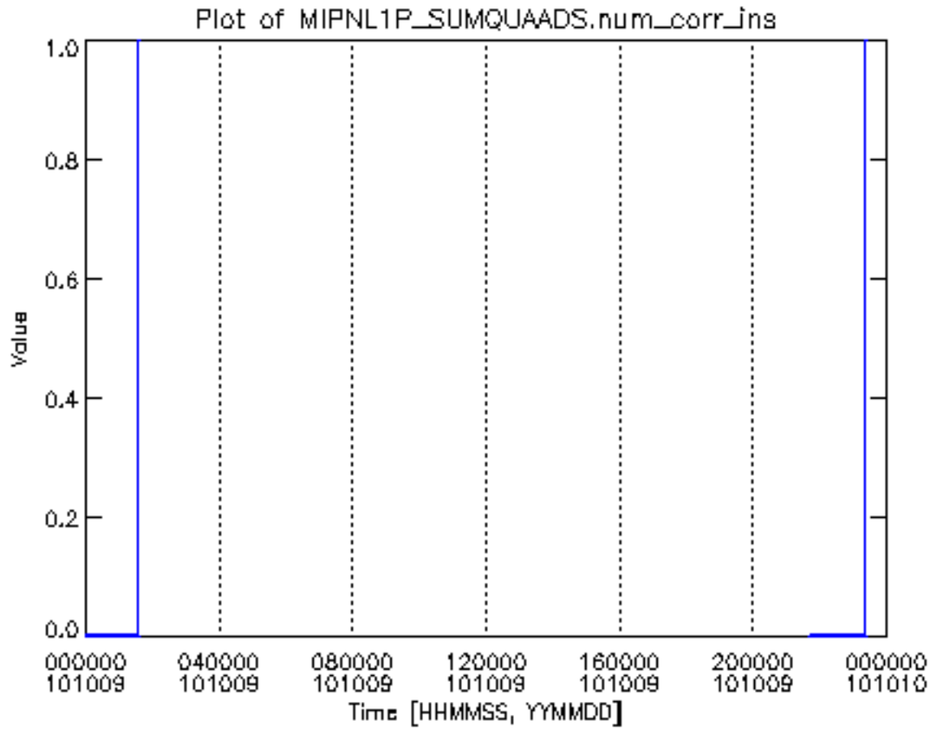

Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)
27-Nom.RR
17-Nom.FR
19-UTLS
29-MA
35-UA
25-NLC
12-AE
Undefined
-135
-90
-45
90
-30
-60
-90

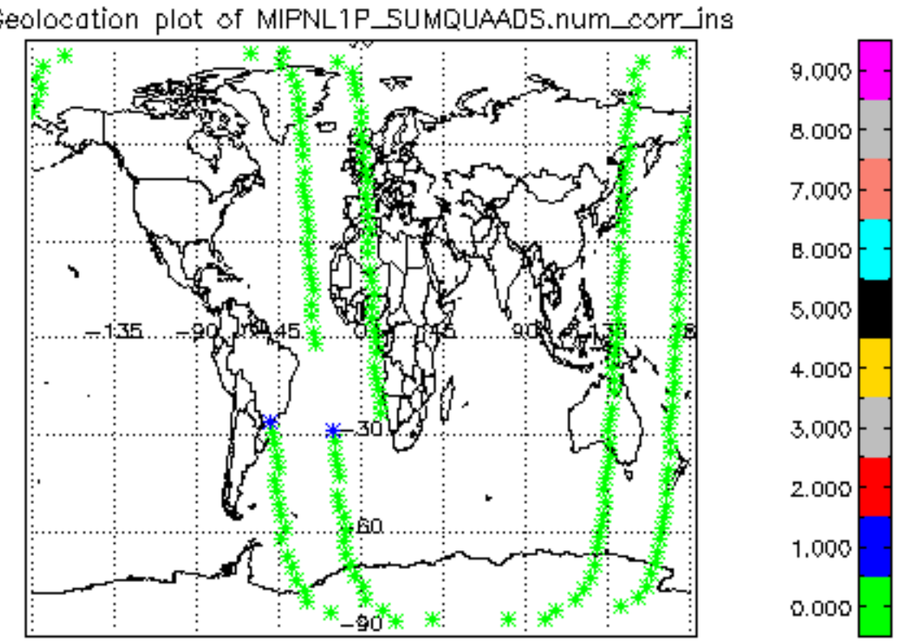

Bar plot of MIPNL1P_SUMQUAADS.attach_flag
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Attach
Blank


Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag
-135
-90
-45
0
45
90
135
180
-30
-60
-90
Attach
Blank


Plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
1.0
0.8
0.6
0.4
0.2
0.0
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
-135
-90
-45
0
45
90
135
180
30
60
-90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000


Plot of MIPNL1P_SUMQUAADS.num_corr_ins
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins
-135
-90
-45
0
45
90
135
180
30
60
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8.000
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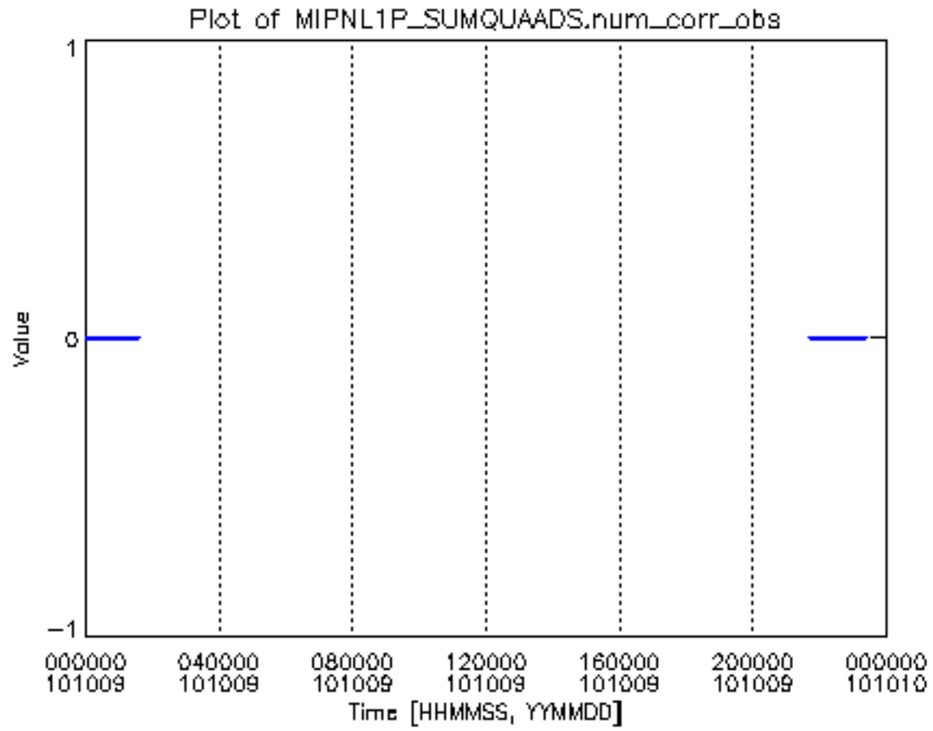
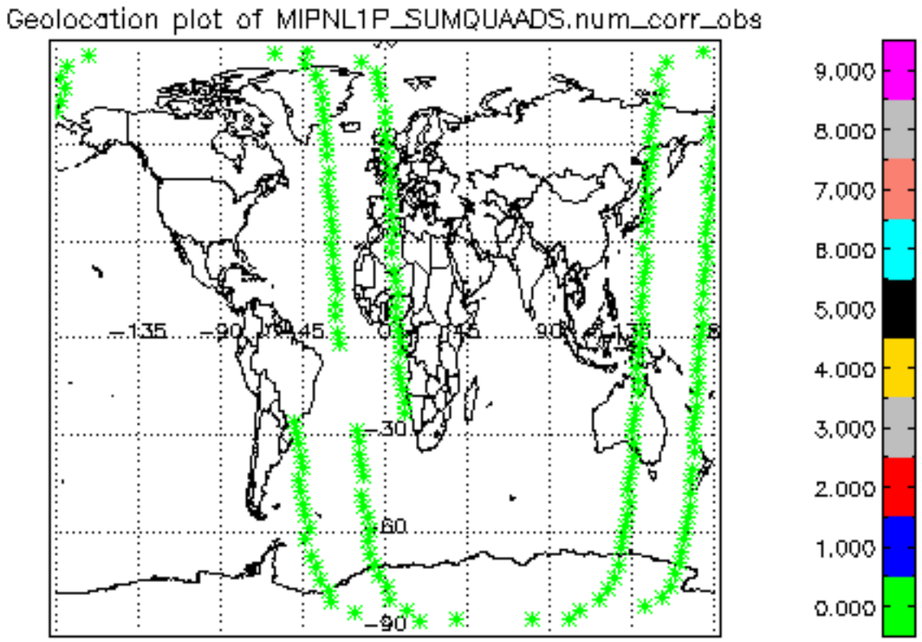
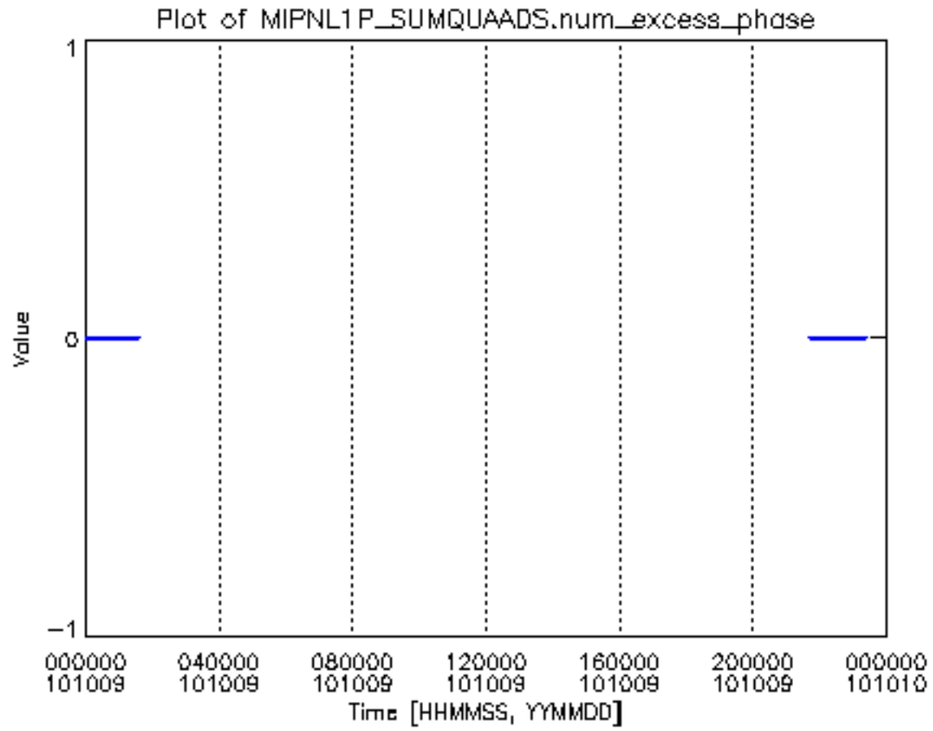
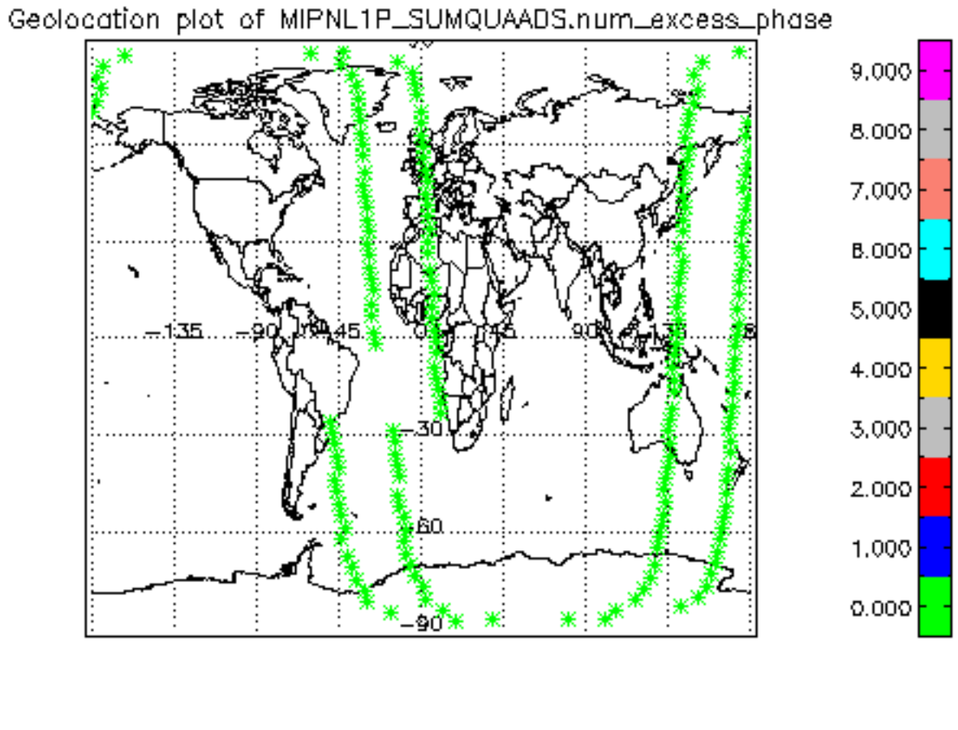
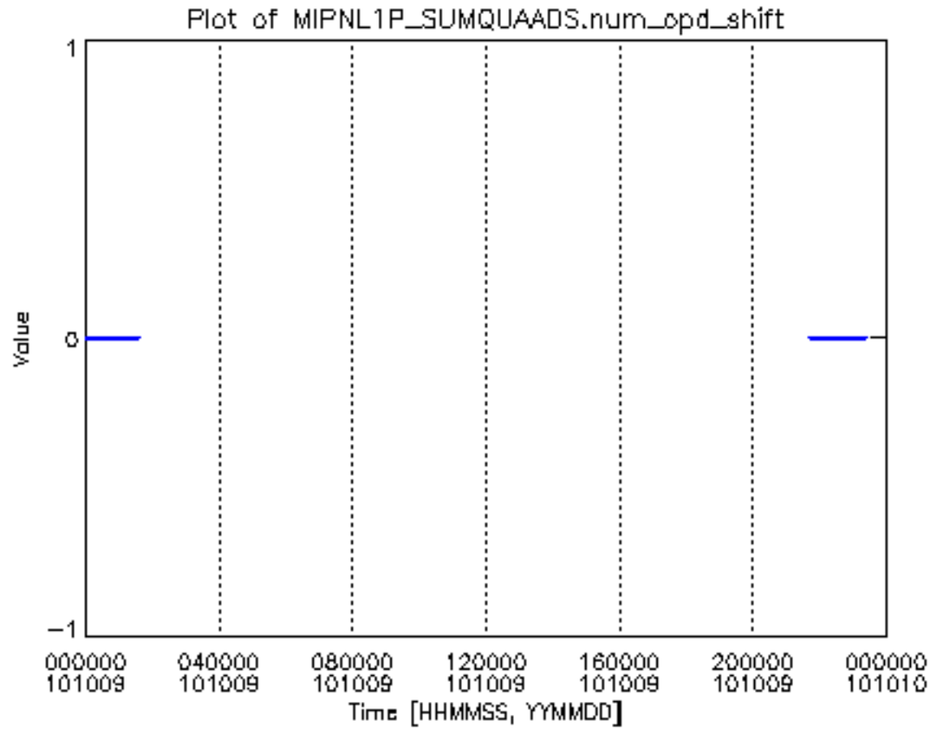
6.000
5.000
4.000
3.000
2.000
1.000
0.000

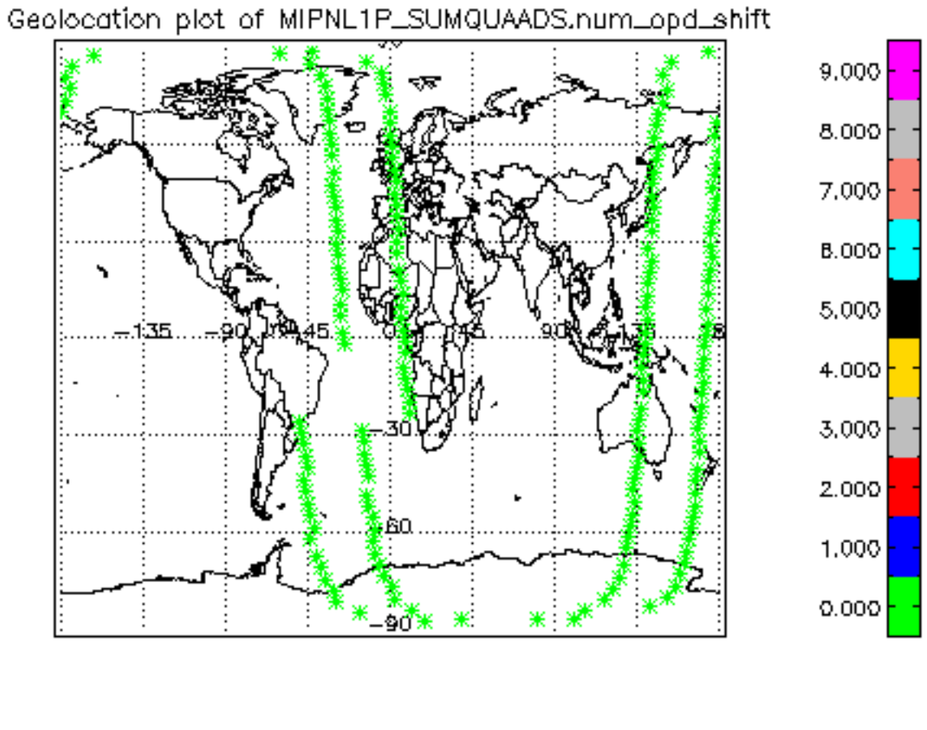

Plot of MIPNL1P_SUMQUAADS.num_corr_obs
1
0
−1
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

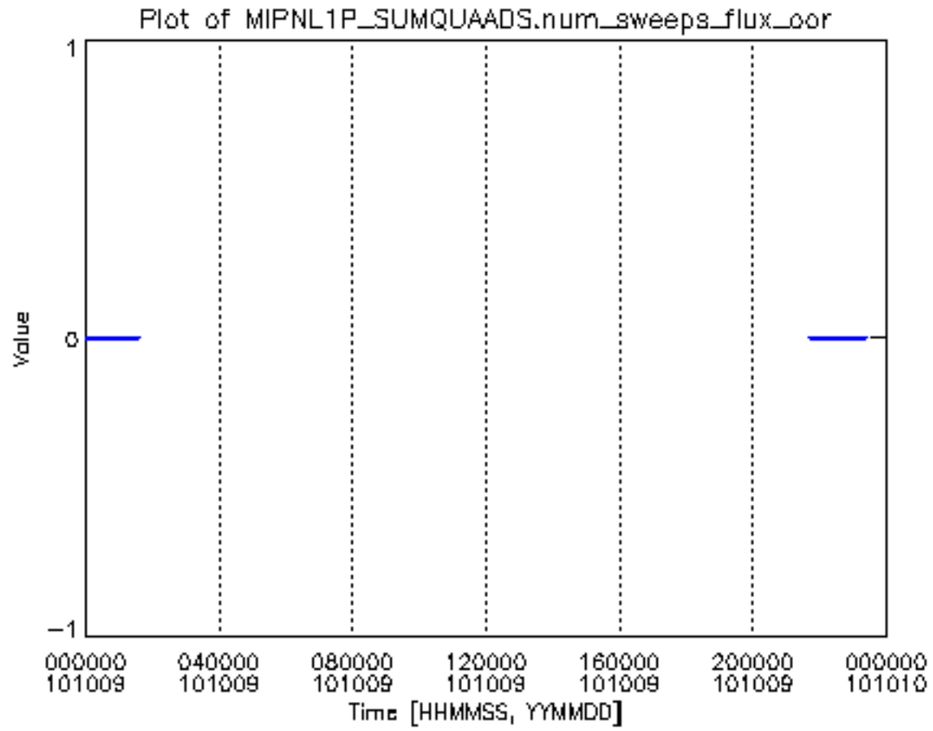

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

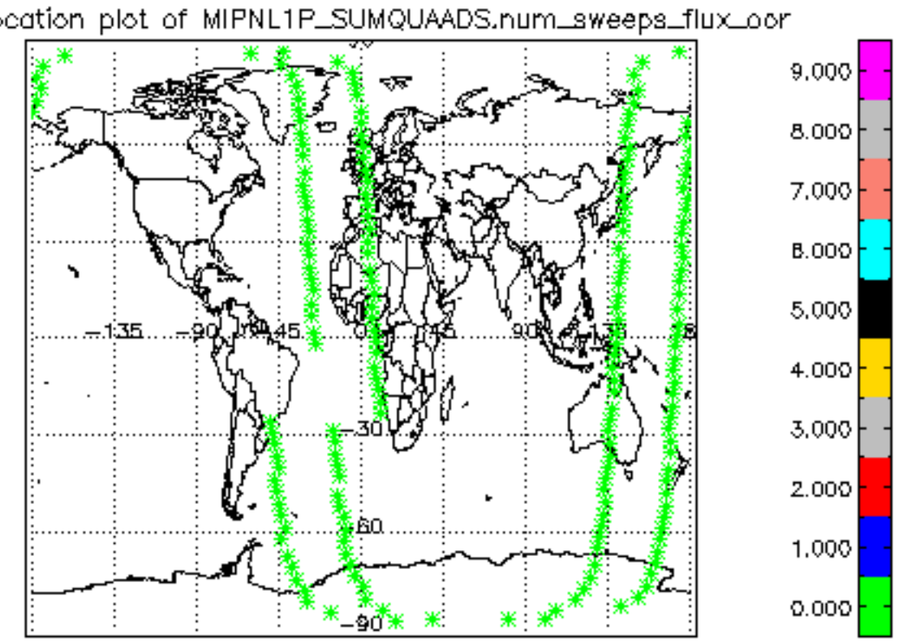

Plot of MIPNL1P_SUMQUAADS.num_excess_phase
1
0
−1
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

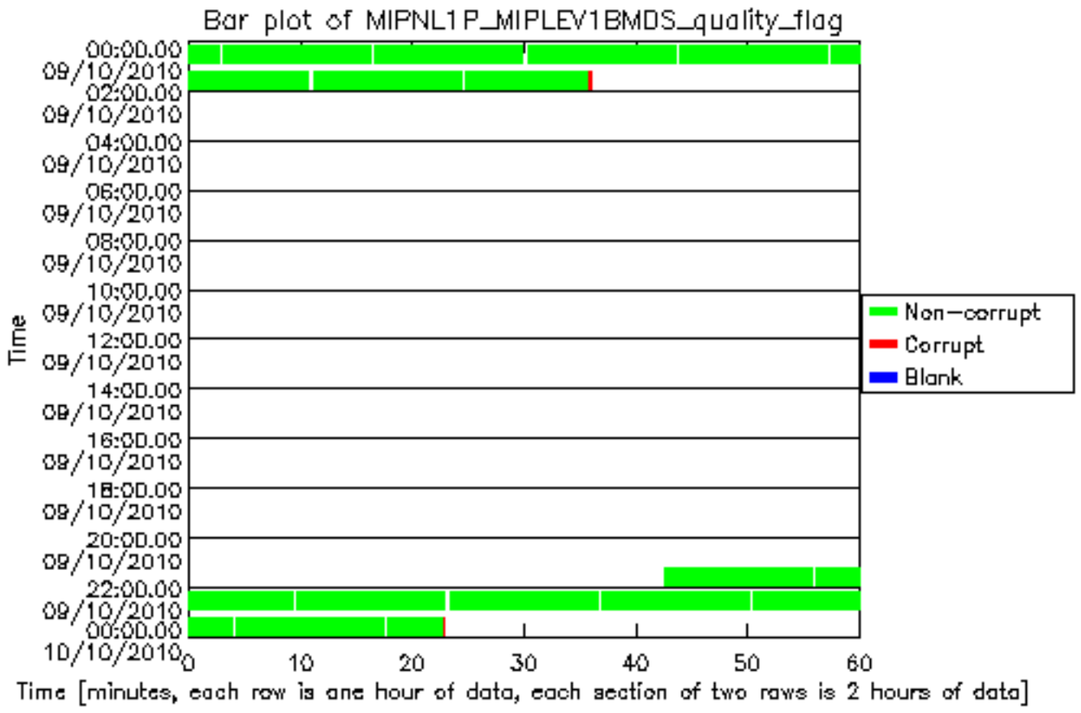

Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

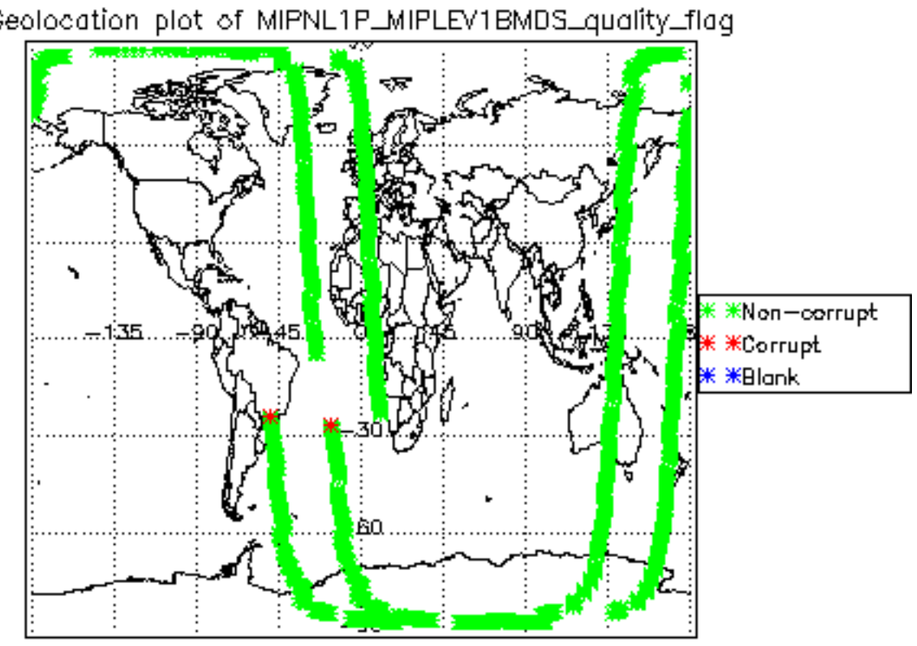

Plot of MIPNL1P_SUMQUAADS.num_opd_shift
1
0
−1
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

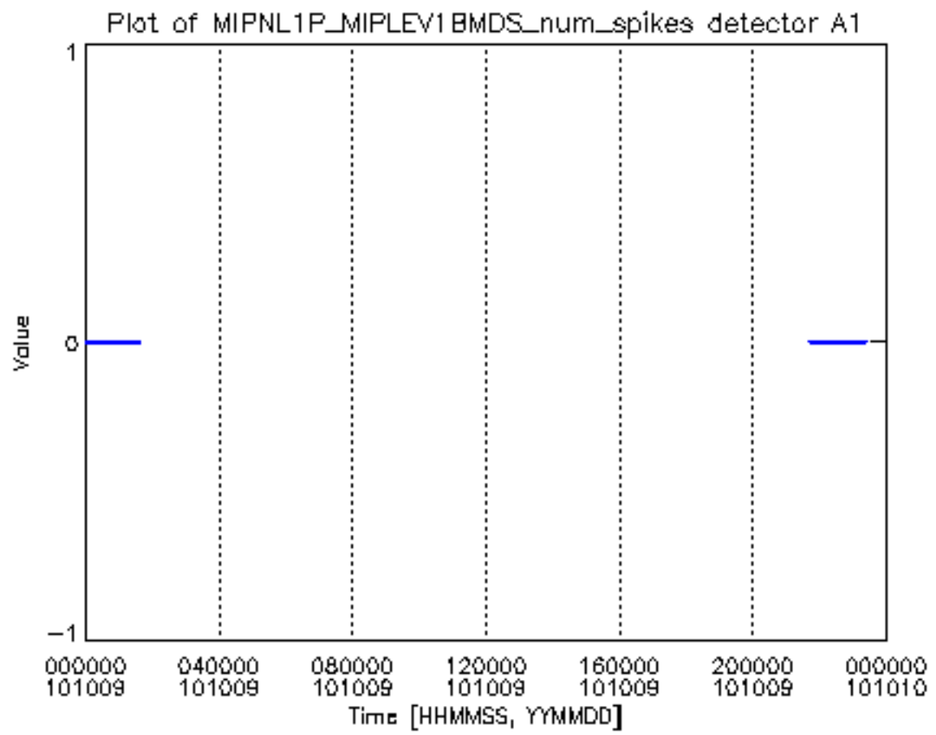

Geolocation plot of MIPNL1P_SUMQUAADS.num_opd_shift
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

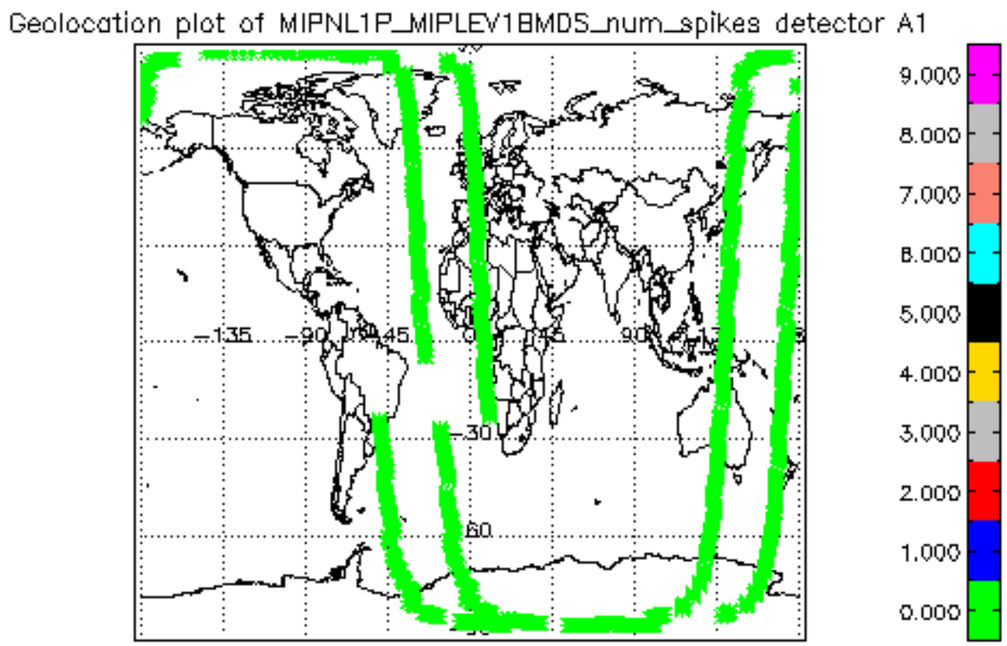

Plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor
Value
1
0
−1
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

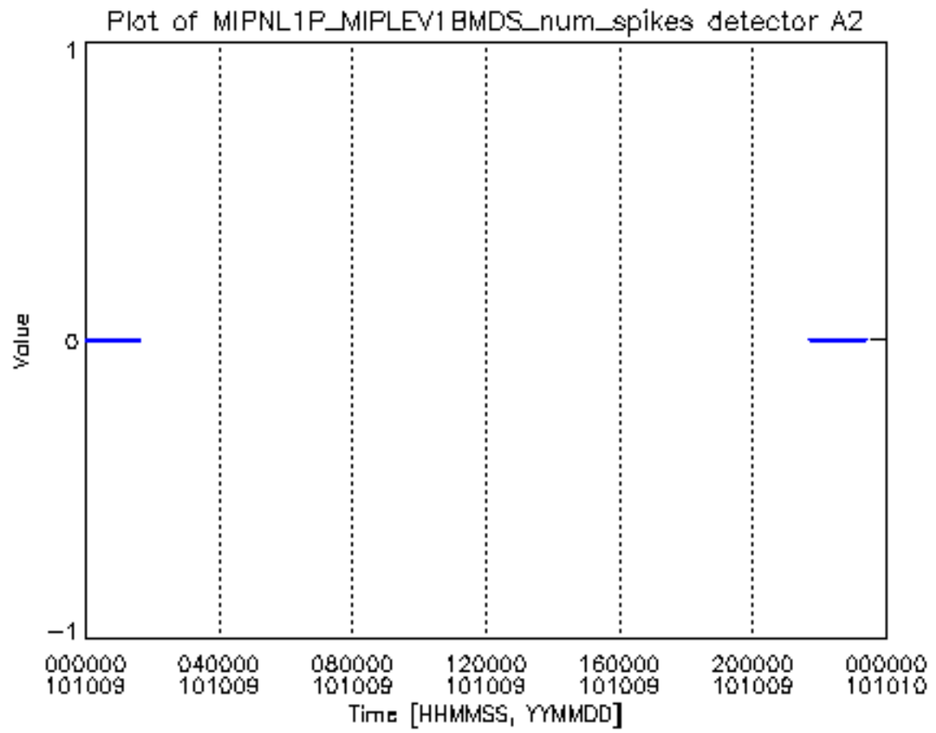

Geolocation plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor
−135
−90
−45
0
45
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

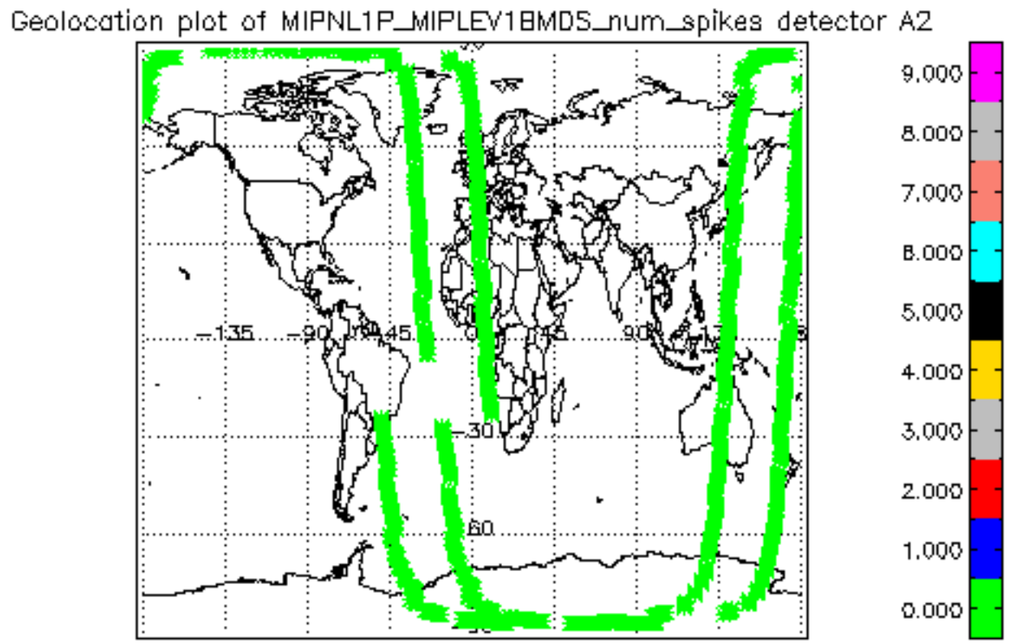

Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Non-corrupt
Corrupt
Blank

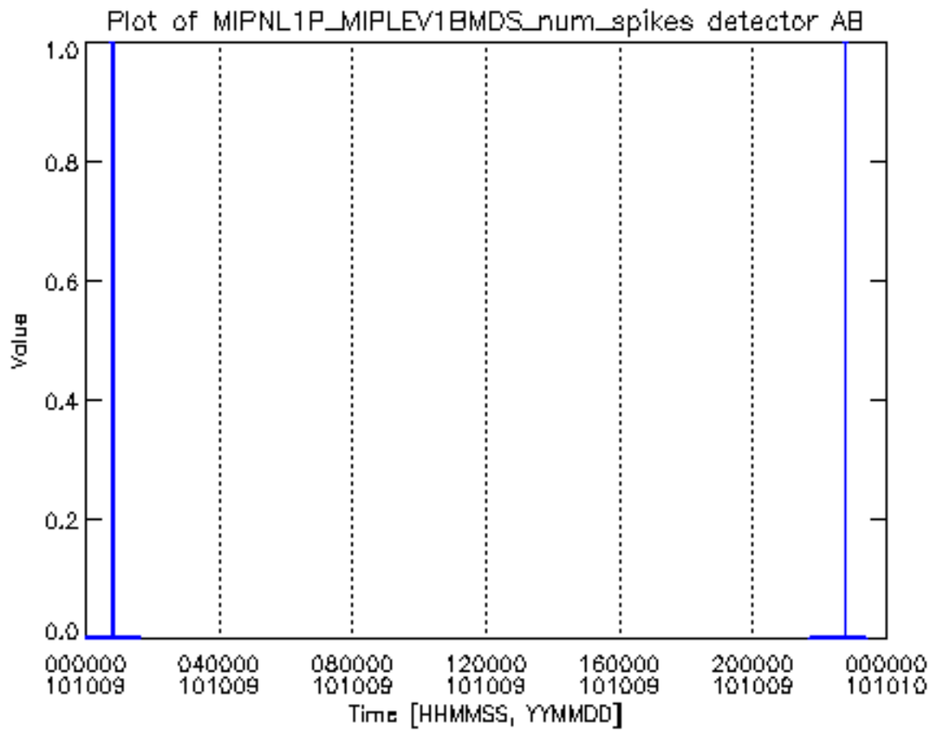

Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag
-135
-90
-45
0
45
90
30
60
Non-corrupt
Corrupt
Blank

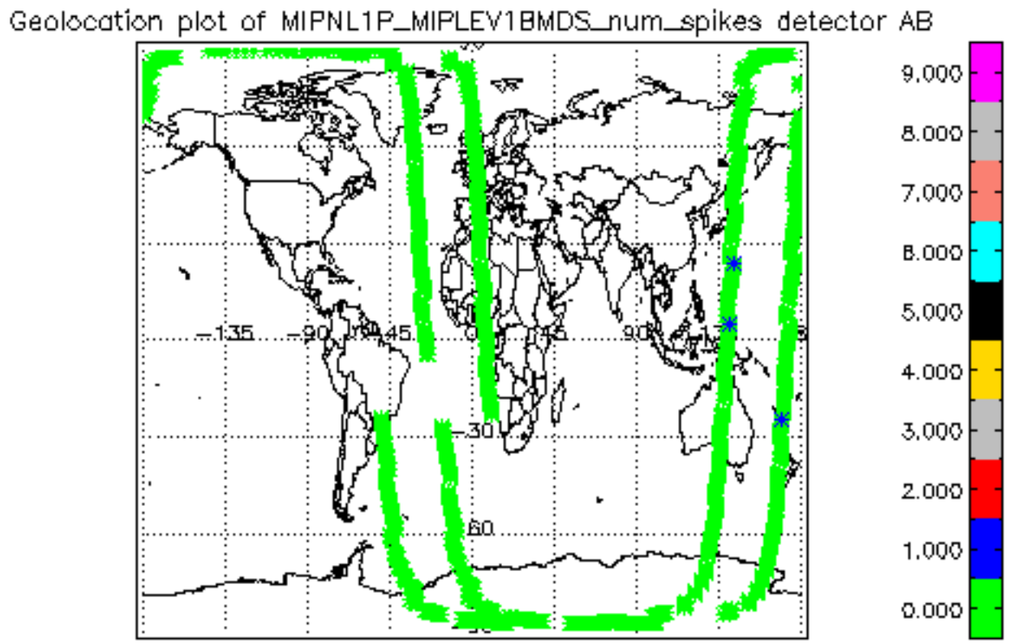

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
1
0
−1
Value
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

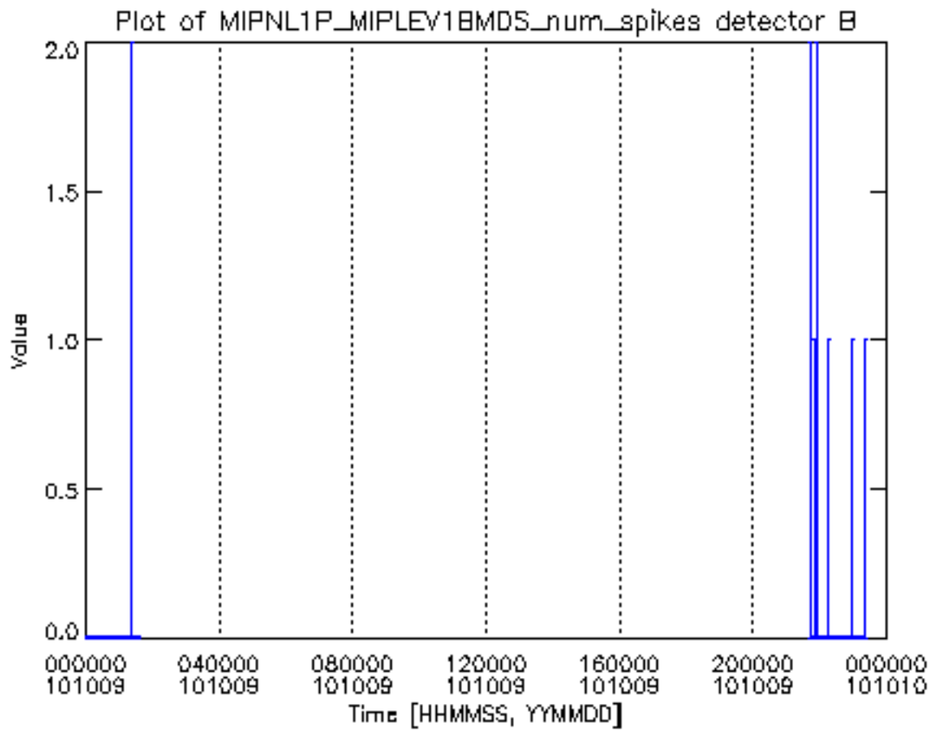

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
−135
−90
−45
0
90
−30
−60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

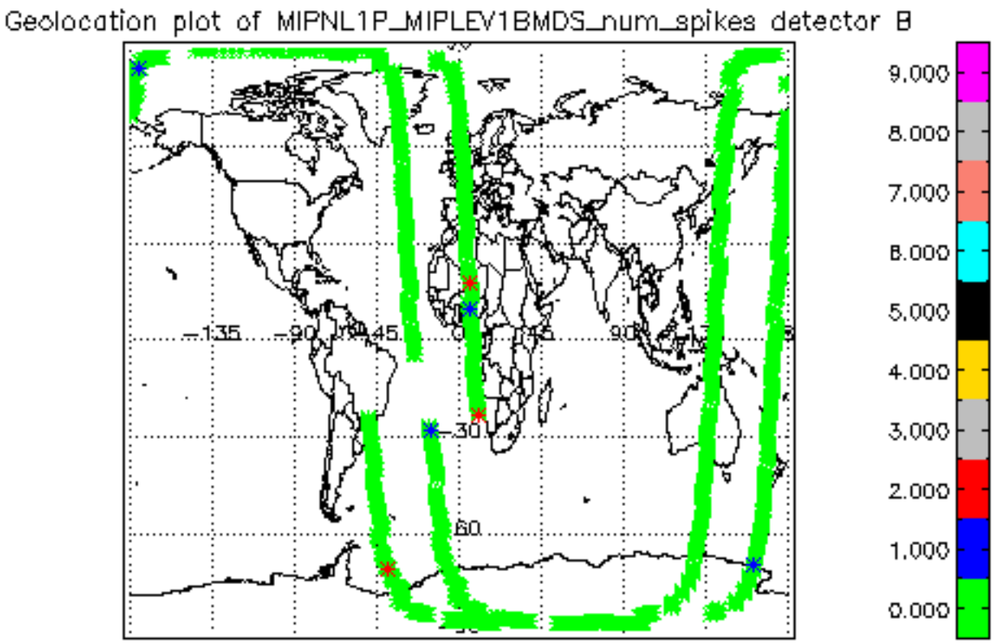

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
Value
1
0
−1
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

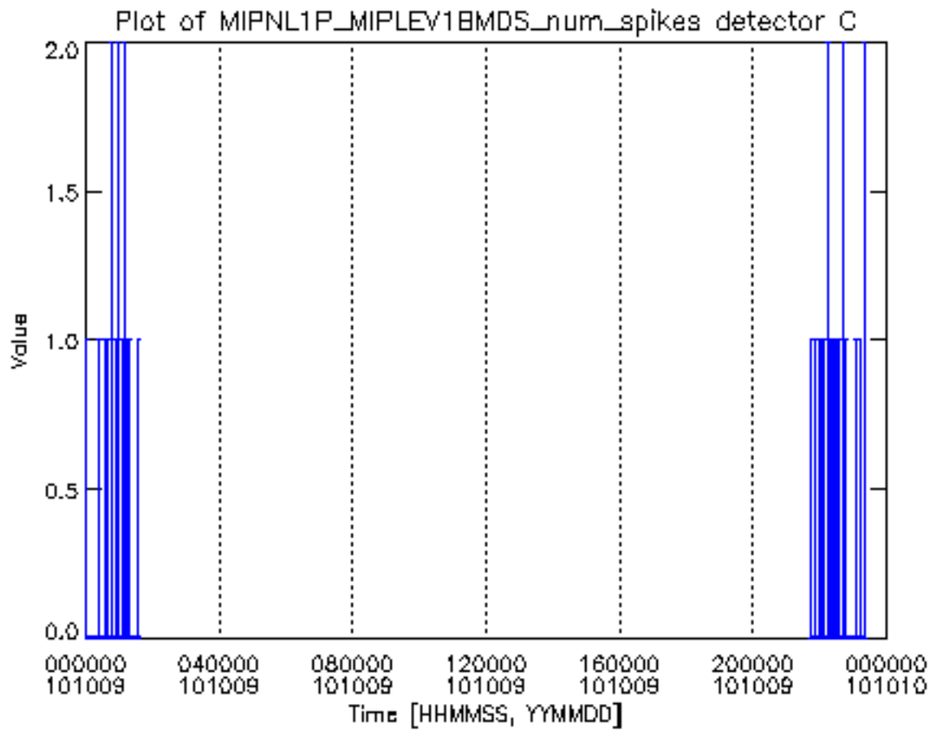

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
−135
−90
−45
0
45
90
−30
−60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

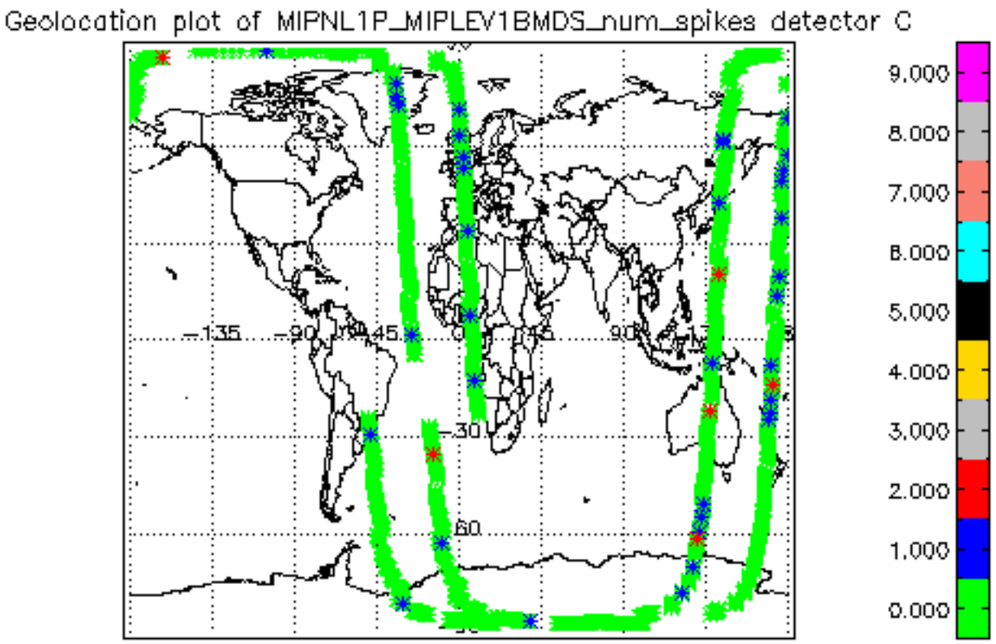

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

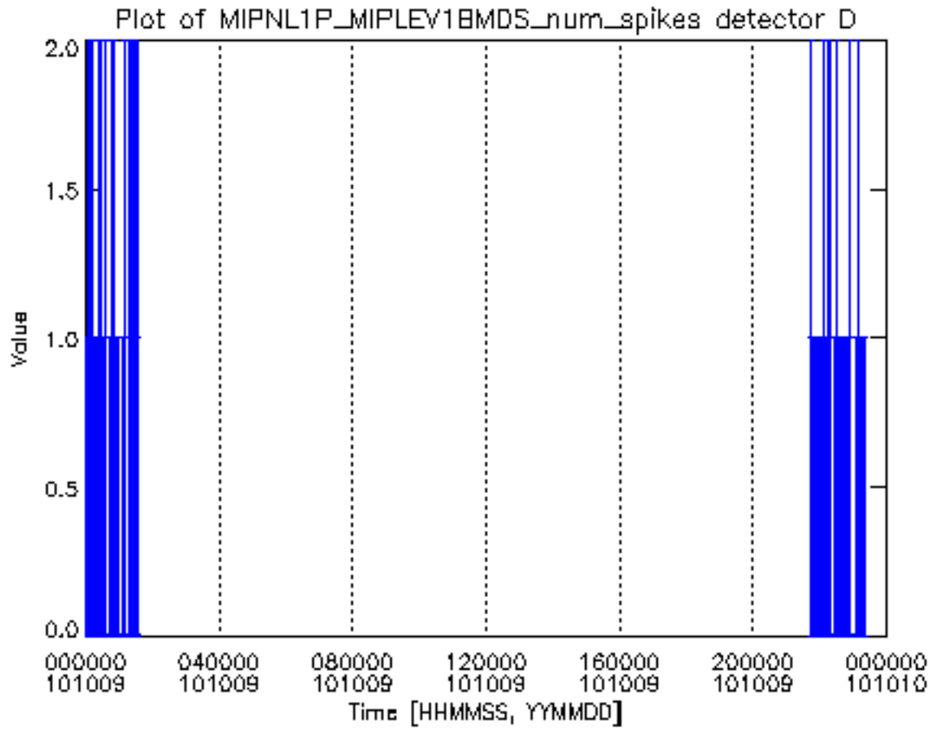

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
-135
-90
-45
0
45
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

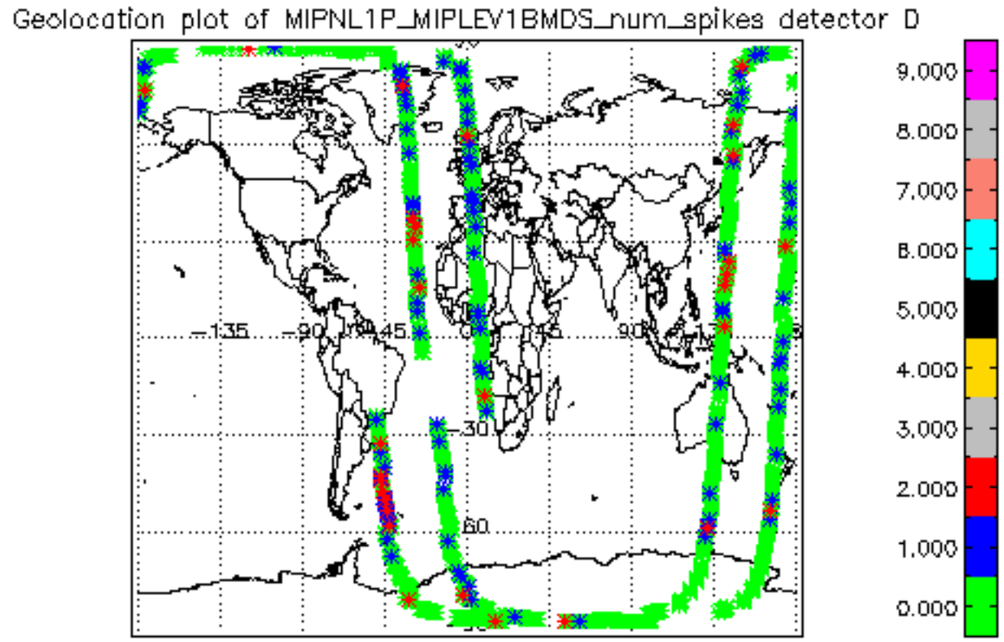

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
Value
2.0
1.5
1.0
0.5
0.0
000000
101009
040000
101009
080000
101009
120000
101009
160000
101009
200000
101009
000000
101010
Time [HHMMSS, YYMMDD]

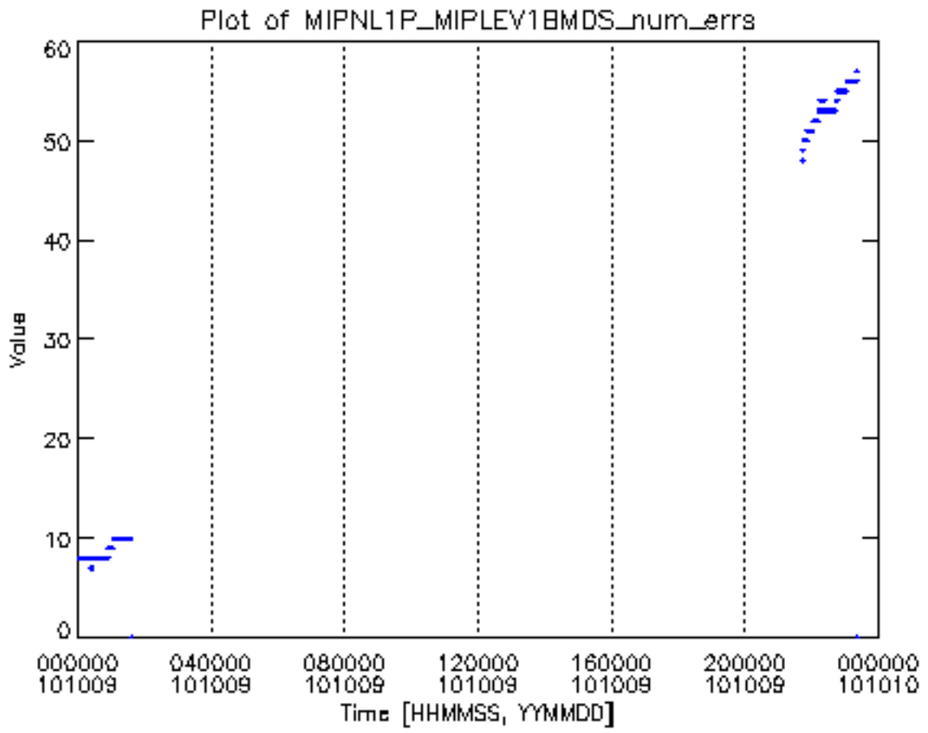

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
-135
-90
-45
0
45
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

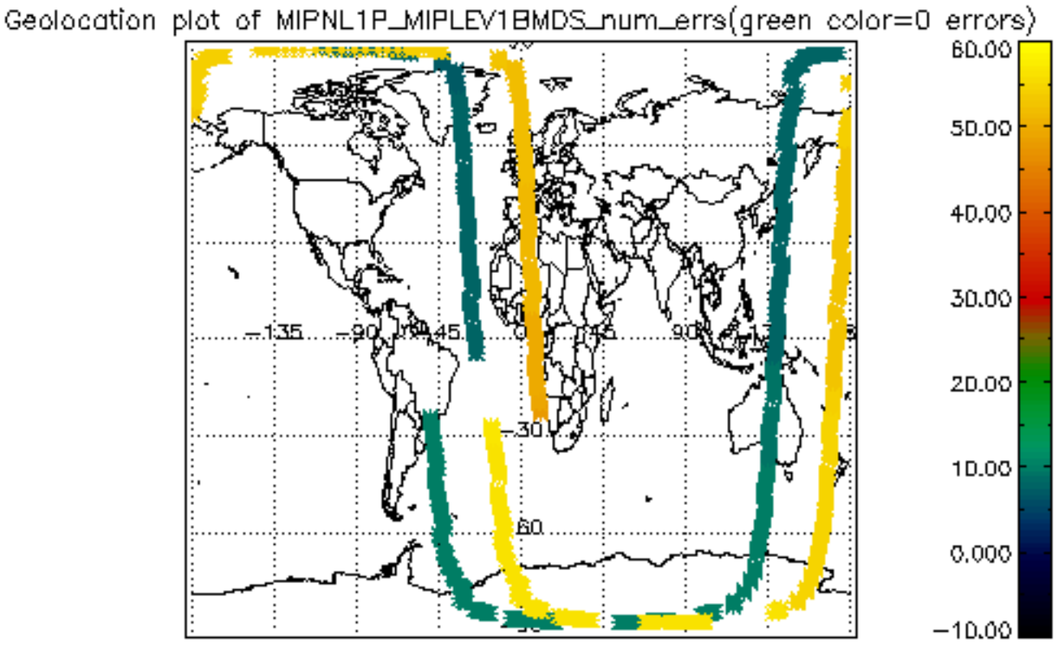

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

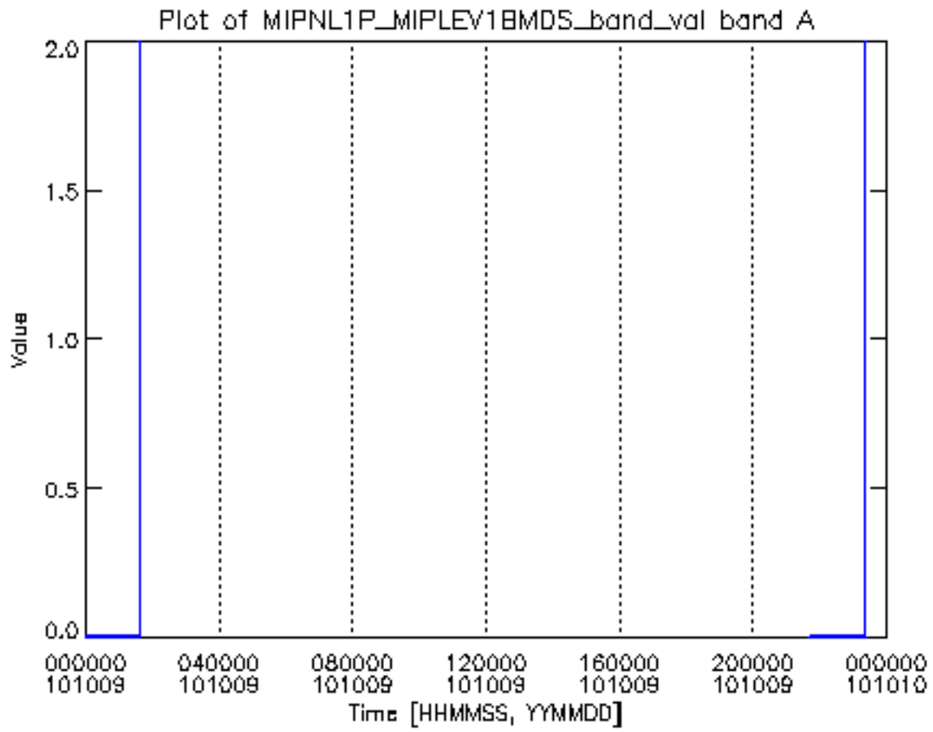

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
-135
-90
-45
0
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

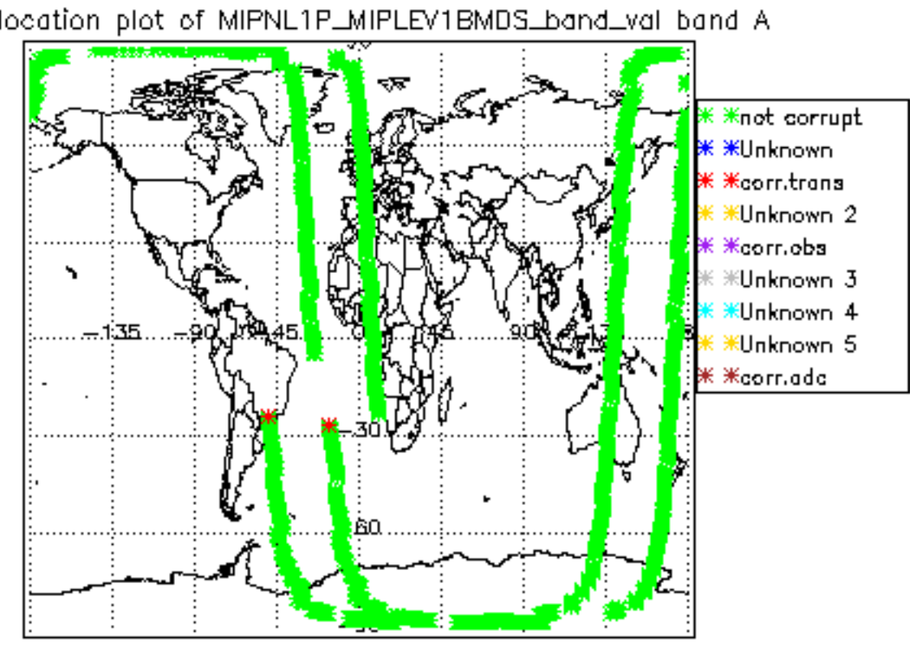

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

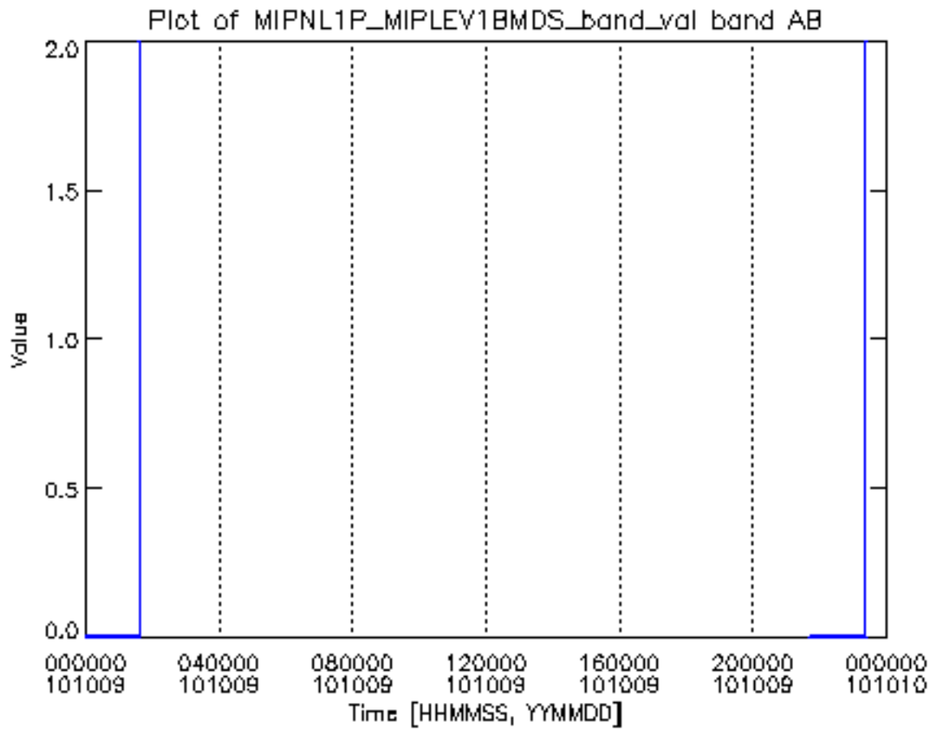

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
-135
-90
-45
0
45
90
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

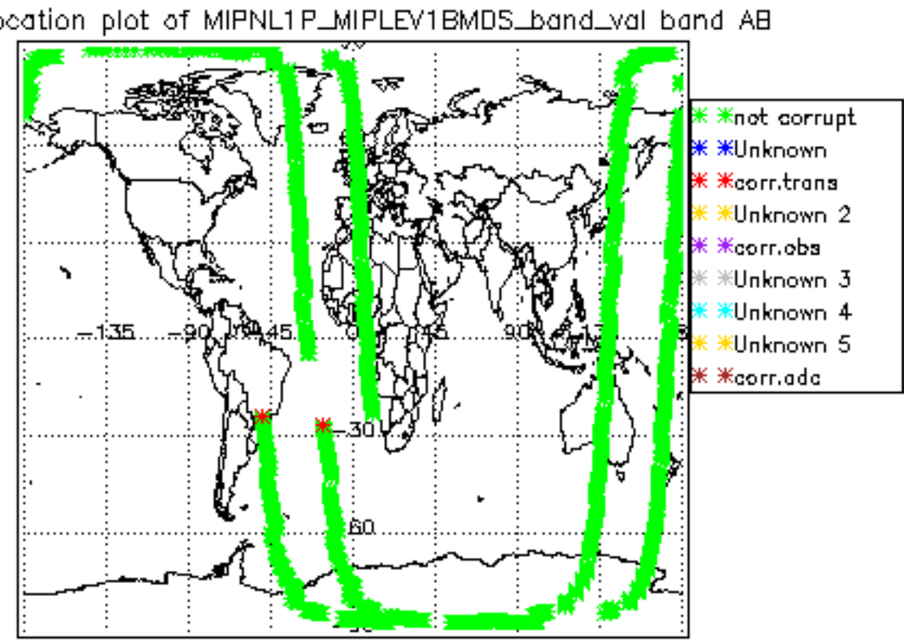

Plot of MIPNL1P_MIPLEV1BMDS_num_errs
Value
60
50
40
30
20
10
0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

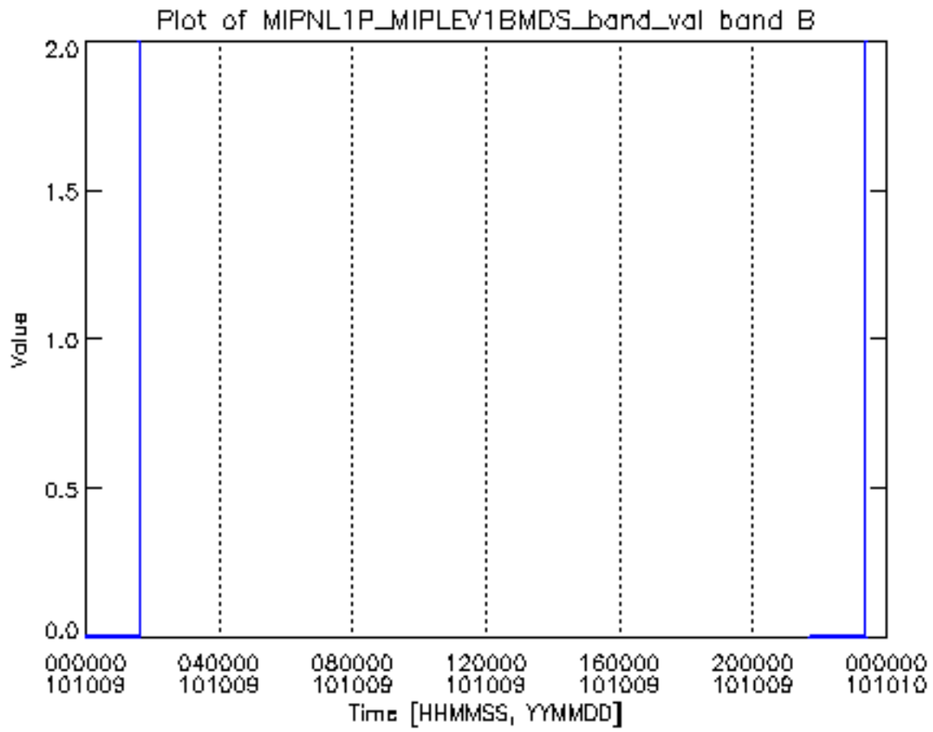

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs(green color=0 errors)
-135
-90
-45
0
45
90
-30
-60
60.00
50.00
40.00
30.00
20.00
10.00
0.000
-10.00

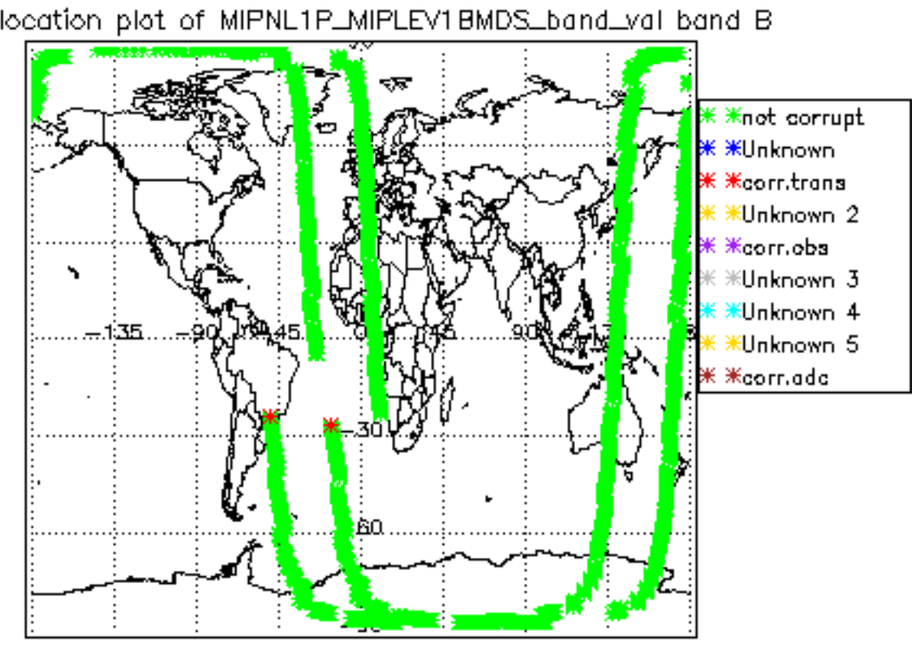

Plot of MIPNL1P_MIPLEV1BMDS_band_val band A
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

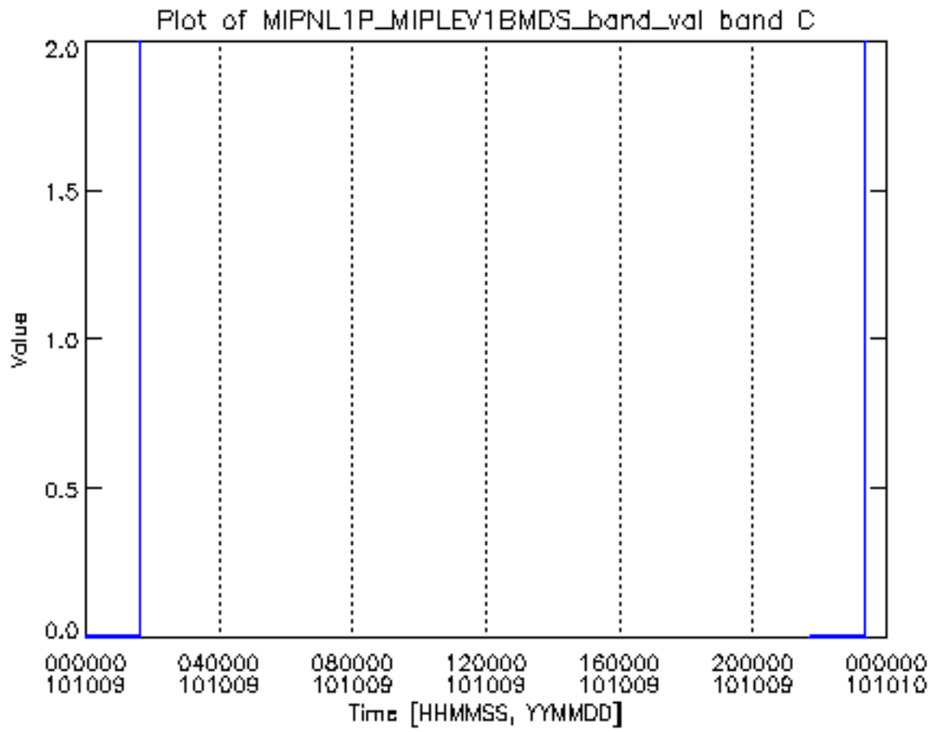

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
30
60

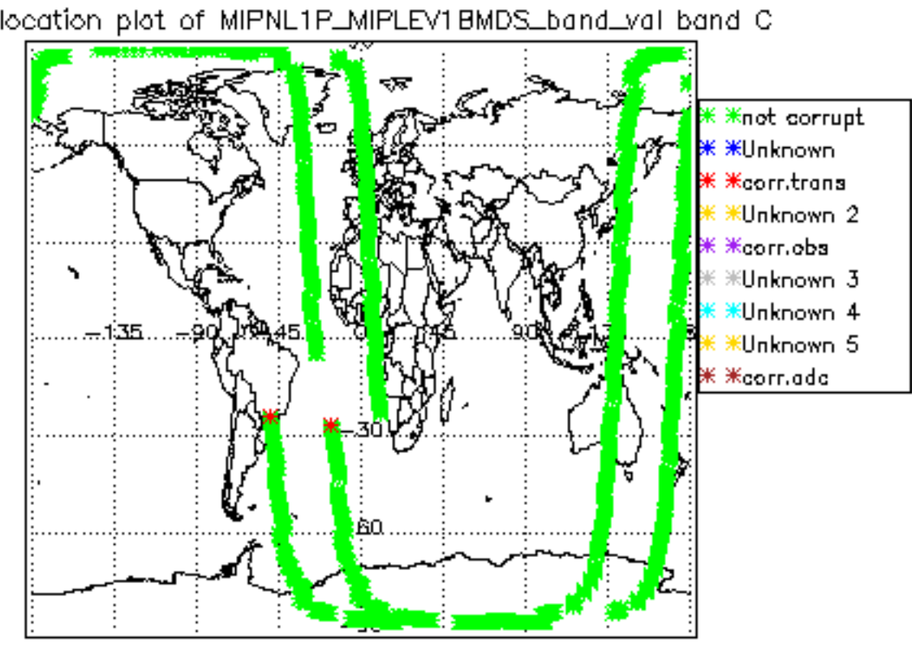

Plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

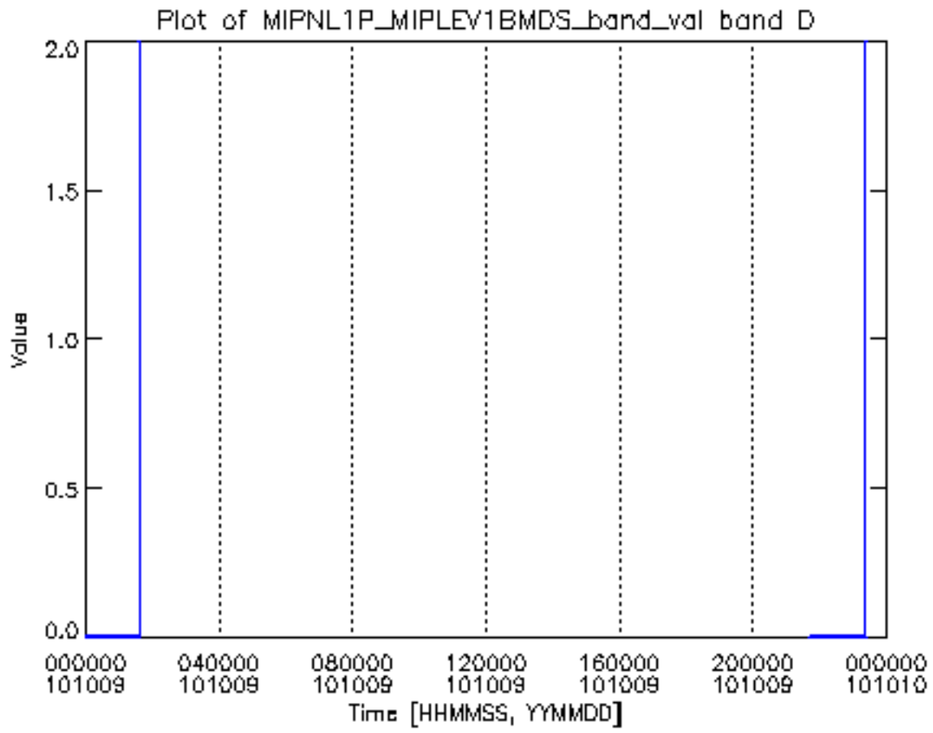

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
90
30
60

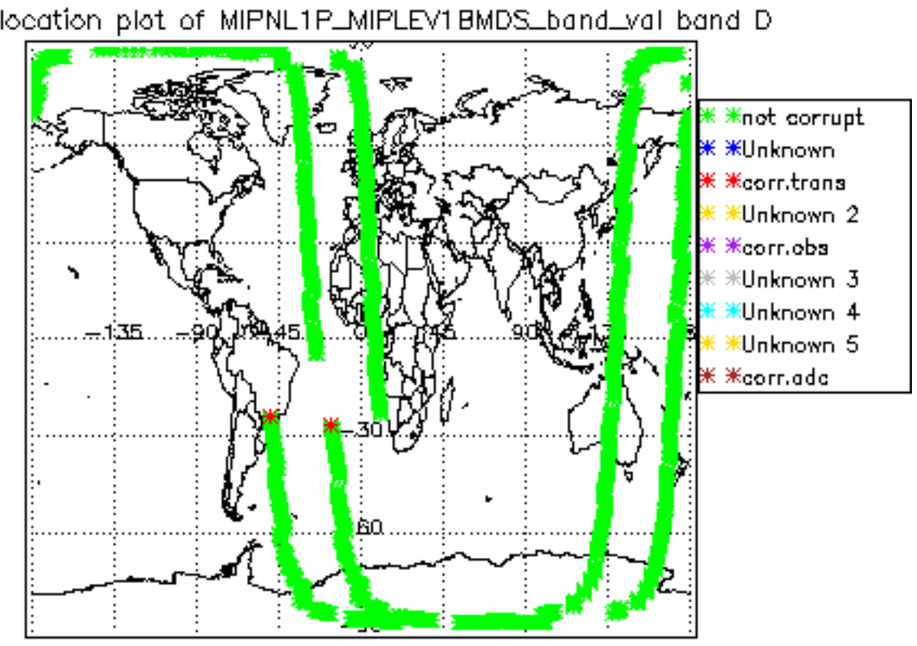

Plot of MIPNL1P_MIPLEV1BMDS_band_val band B
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

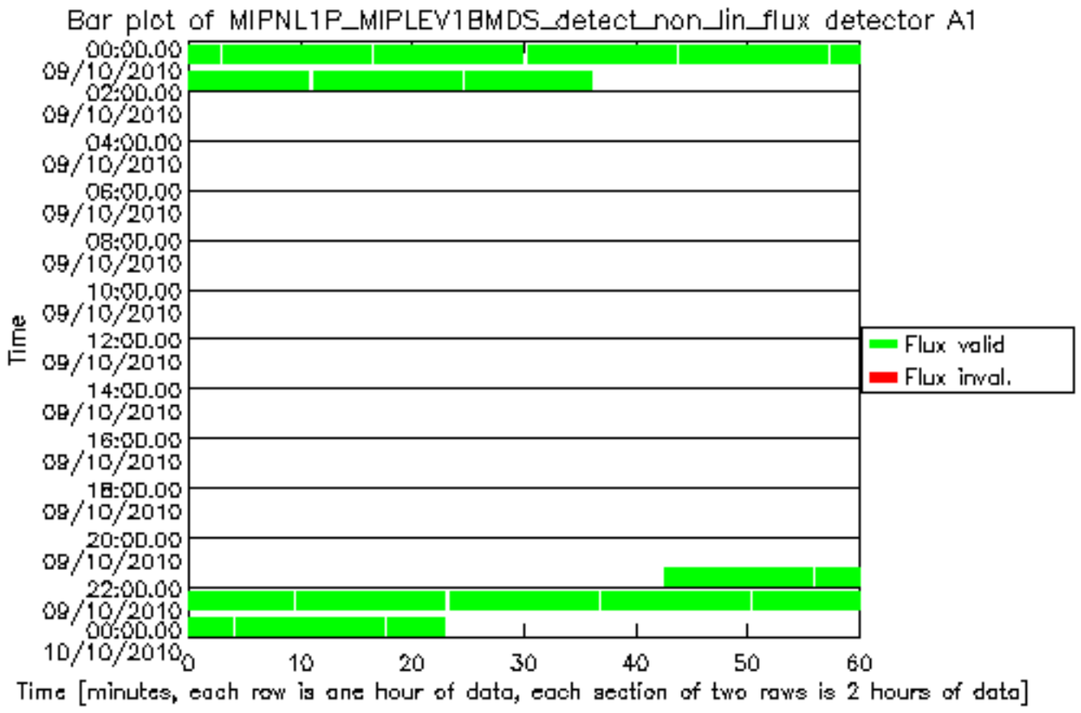

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
30
60

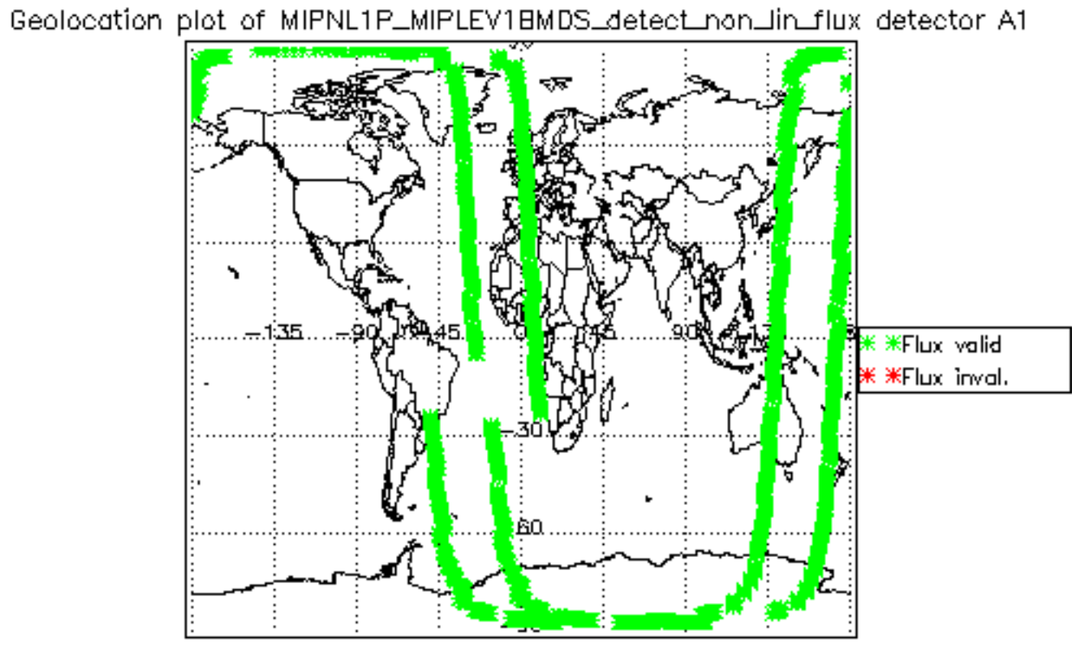

Plot of MIPNL1P_MIPLEV1BMDS_band_val band C
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

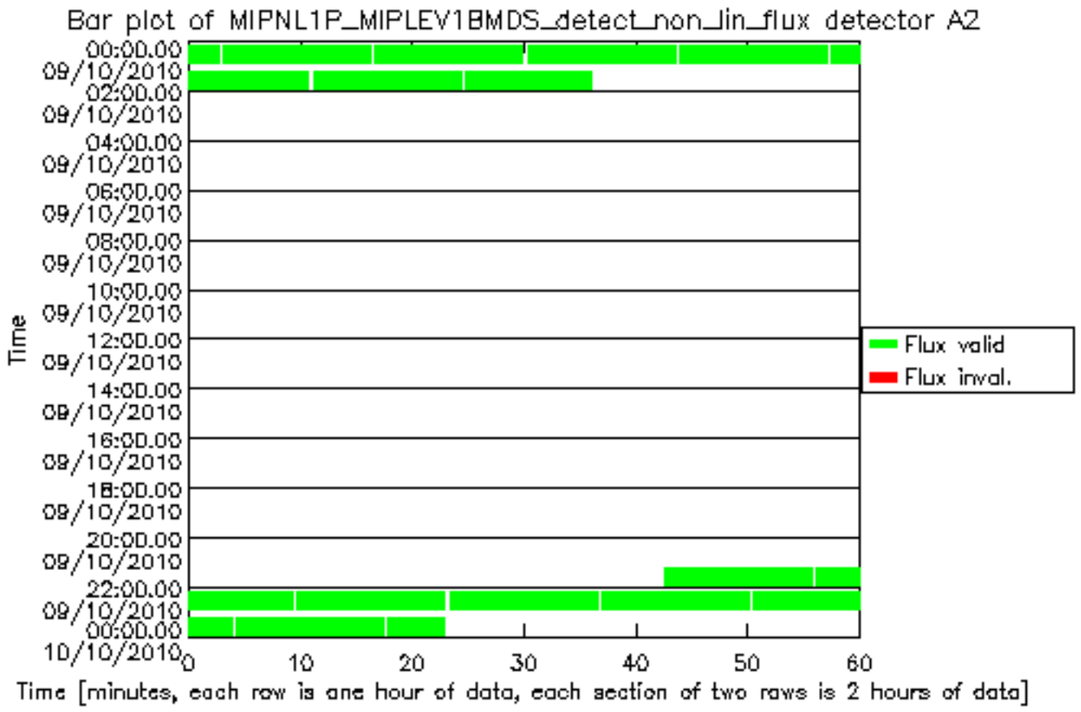

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
30
60

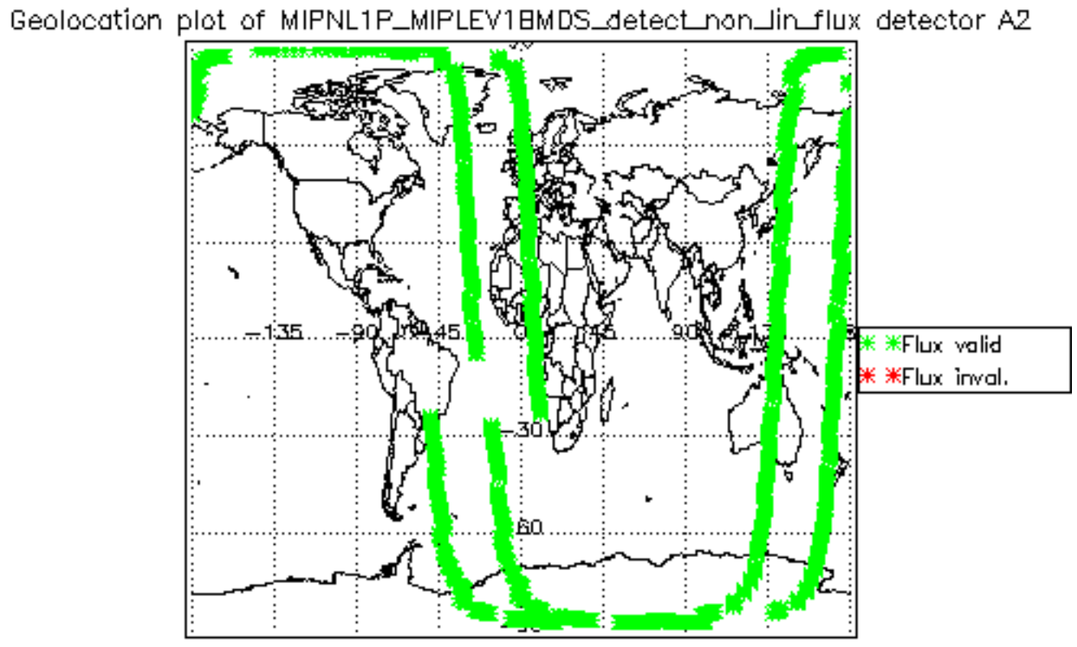

Plot of MIPNL1P_MIPLEV1BMDS_band_val band D
Value
2.0
1.5
1.0
0.5
0.0
000000 101009
040000 101009
080000 101009
120000 101009
160000 101009
200000 101009
000000 101010
Time [HHMMSS, YYMMDD]

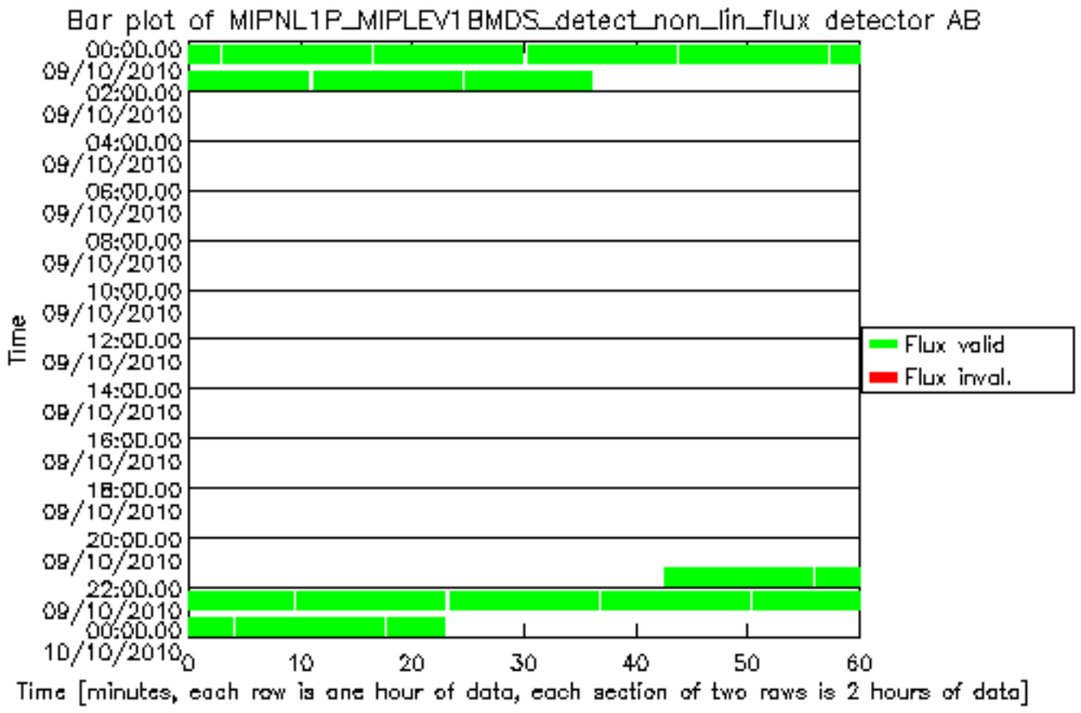

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-135
-90
-45
0
45
90
135
30
60

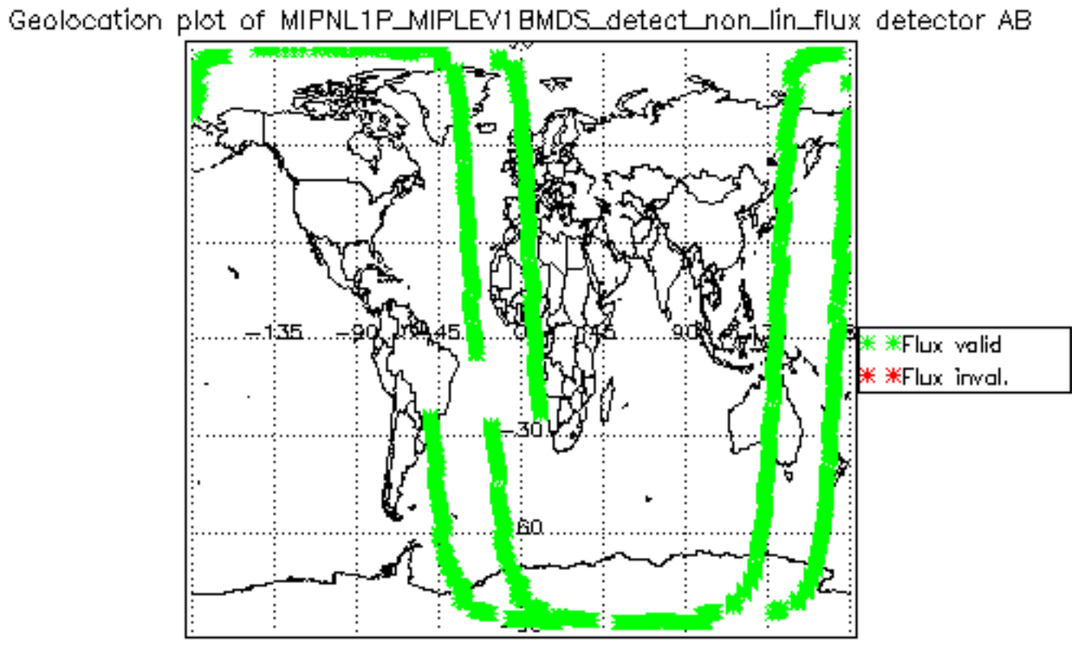

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Flux valid
Flux inval.

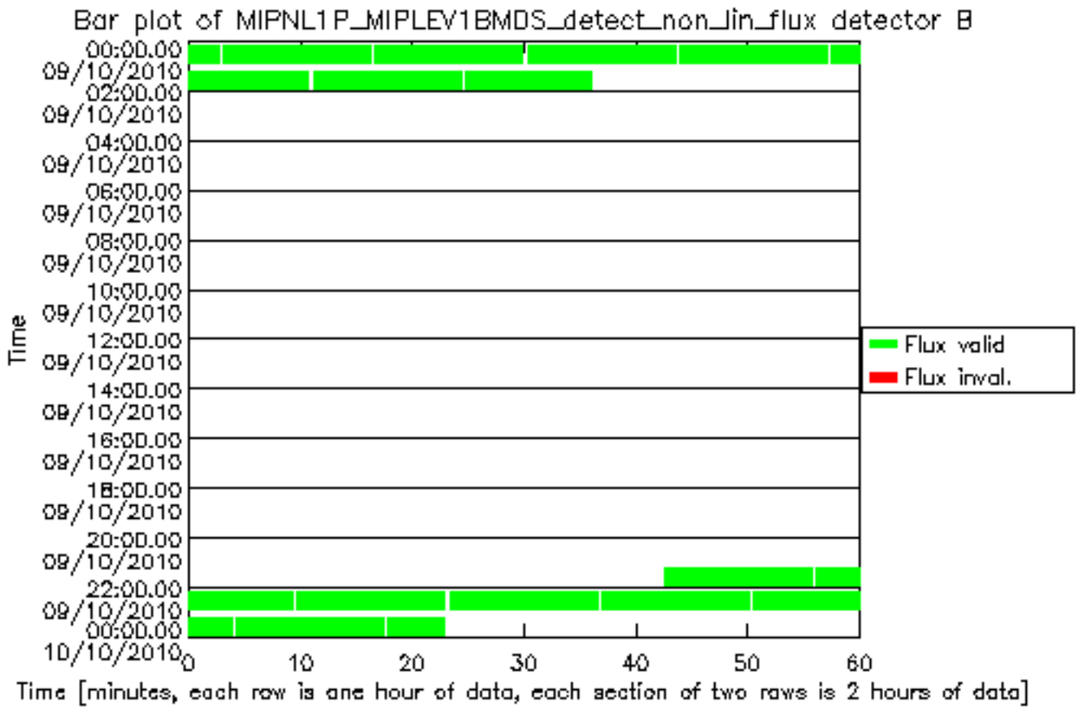

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
-135
-90
-45
0
45
90
30
60
Flux valid
Flux inval.

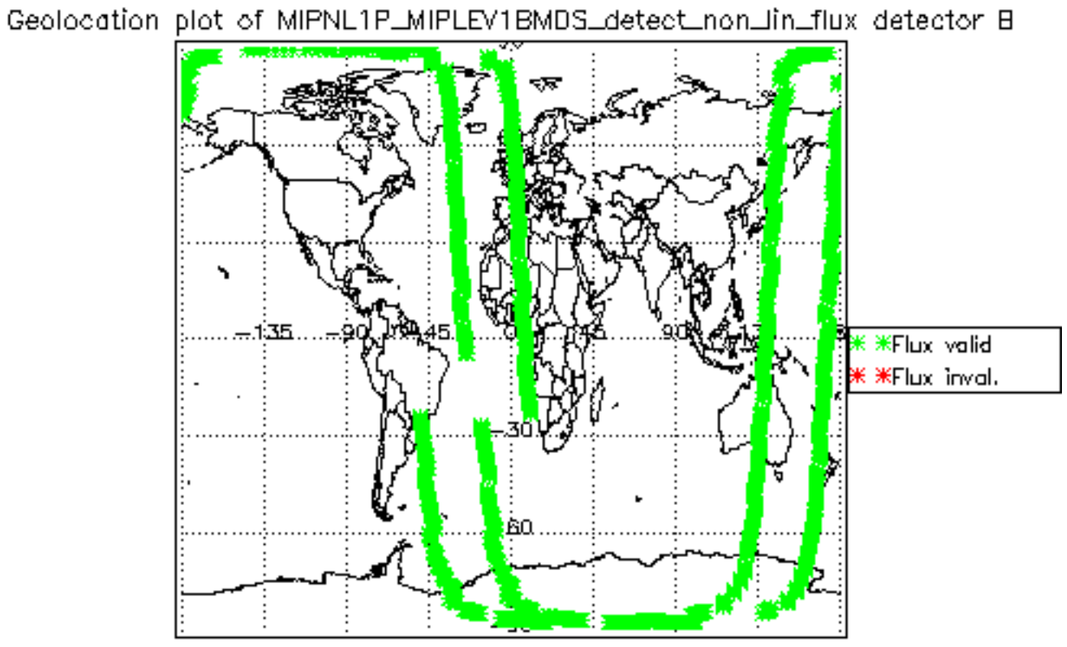

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Flux valid
Flux inval.

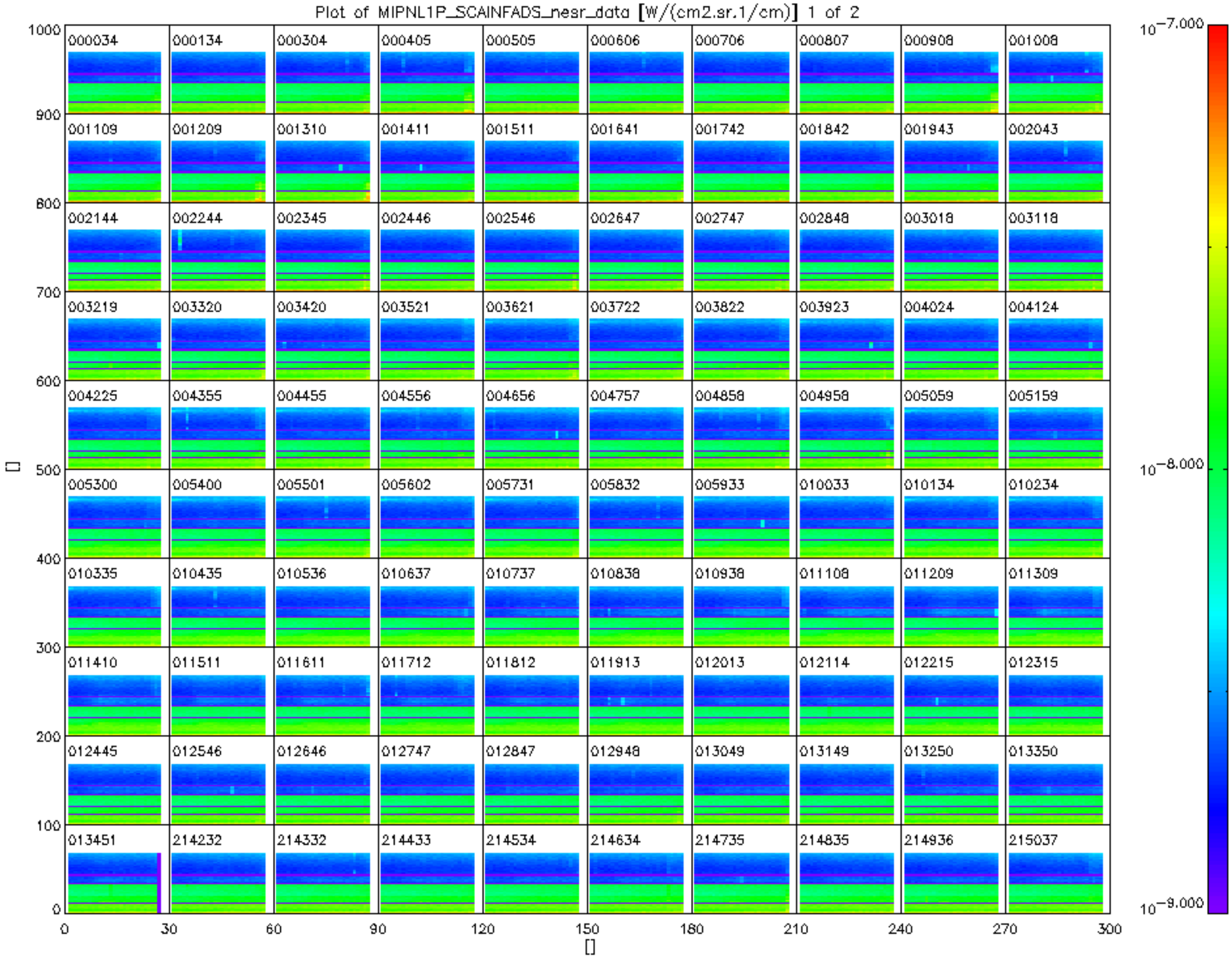

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2
-135
-90
-45
0
90
-30
-60
Flux valid
Flux inval.


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Flux valid
Flux inval.
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB
-135
-90
-45
0
45
90
30
60
Flux valid
Flux inval.


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B
Time
00:00.00 09/10/2010
02:00.00 09/10/2010
04:00.00 09/10/2010
06:00.00 09/10/2010
08:00.00 09/10/2010
10:00.00 09/10/2010
12:00.00 09/10/2010
14:00.00 09/10/2010
16:00.00 09/10/2010
18:00.00 09/10/2010
20:00.00 09/10/2010
22:00.00 09/10/2010
00:00.00 10/10/2010
0
10
20
30
40
50
60
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]
Flux valid
Flux inval.


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B
-135
-90
-45
0
90
-30
-60
Flux valid
Flux inval.


Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 1 of 2
000034 000134 000304 000405 000505 000606 000706 000807 000908 001008
001109 001209 001310 001411 001511 001641 001742 001842 001943 002043
002144 002244 002345 002446 002546 002647 002747 002848 003018 003118
003219 003320 003420 003521 003621 003722 003822 003923 004024 004124
004225 004355 004455 004556 004656 004757 004858 004958 005059 005159
005300 005400 005501 005602 005731 005832 005933 010033 010134 010234
010335 010435 010536 010637 010737 010838 010938 011108 011209 011309
011410 011511 011611 011712 011812 011913 012013 012114 012215 012315
012445 012546 012646 012747 012847 012948 013049 013149 013250 013350
013451 214232 214332 214433 214534 214634 214735 214835 214936 215037
1000
900
800
700
600
500
400
300
200
100
0
[]
0 30 60 90 120 150 180 210 240 270 300
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$

Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 2 of 2

215137	215238	215338	215439	215609	215709	215810	215910	220011	220112
220212	220313	220413	220514	220615	220715	220816	220946	221046	221147
221247	221348	221448	221549	221650	221750	221851	221951	222052	222153
222322	222423	222524	222624	222725	222825	222926	223026	223127	223228
223328	223429	223529	223659	223800	223900	224001	224102	224202	224303
224403	224504	224604	224705	224806	224906	225036	225137	225237	225338
225438	225539	225640	225740	225841	225941	230042	230142	230243	230413
230513	230614	230715	230815	230916	231016	231117	231218	231318	231419
231519	231620	231750	231850	231951	232051	232152			

[] 1000 900 800 700 600 500 400 300 200 100 0

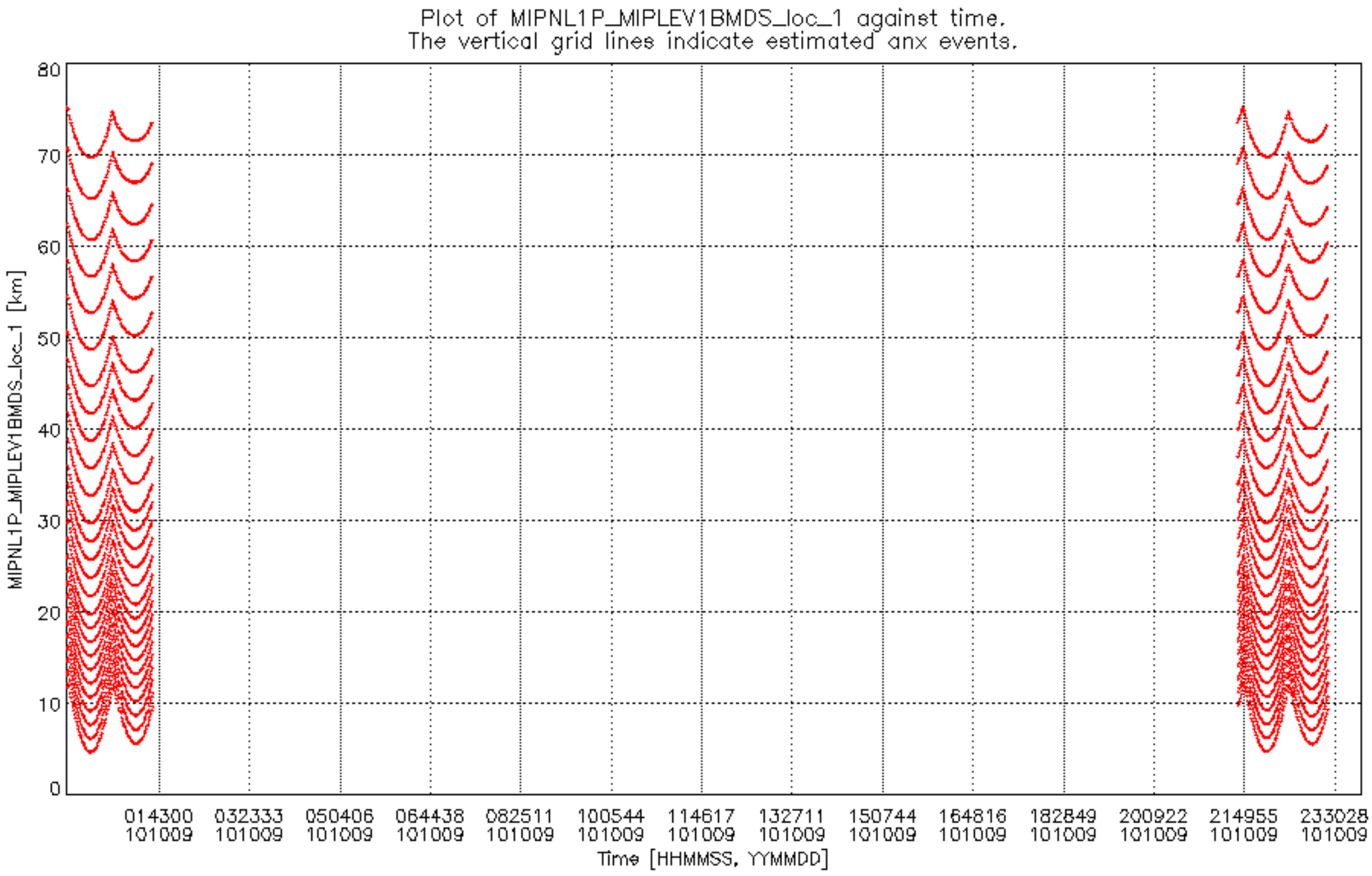
0 30 60 90 120 150 180 210 240 270 300

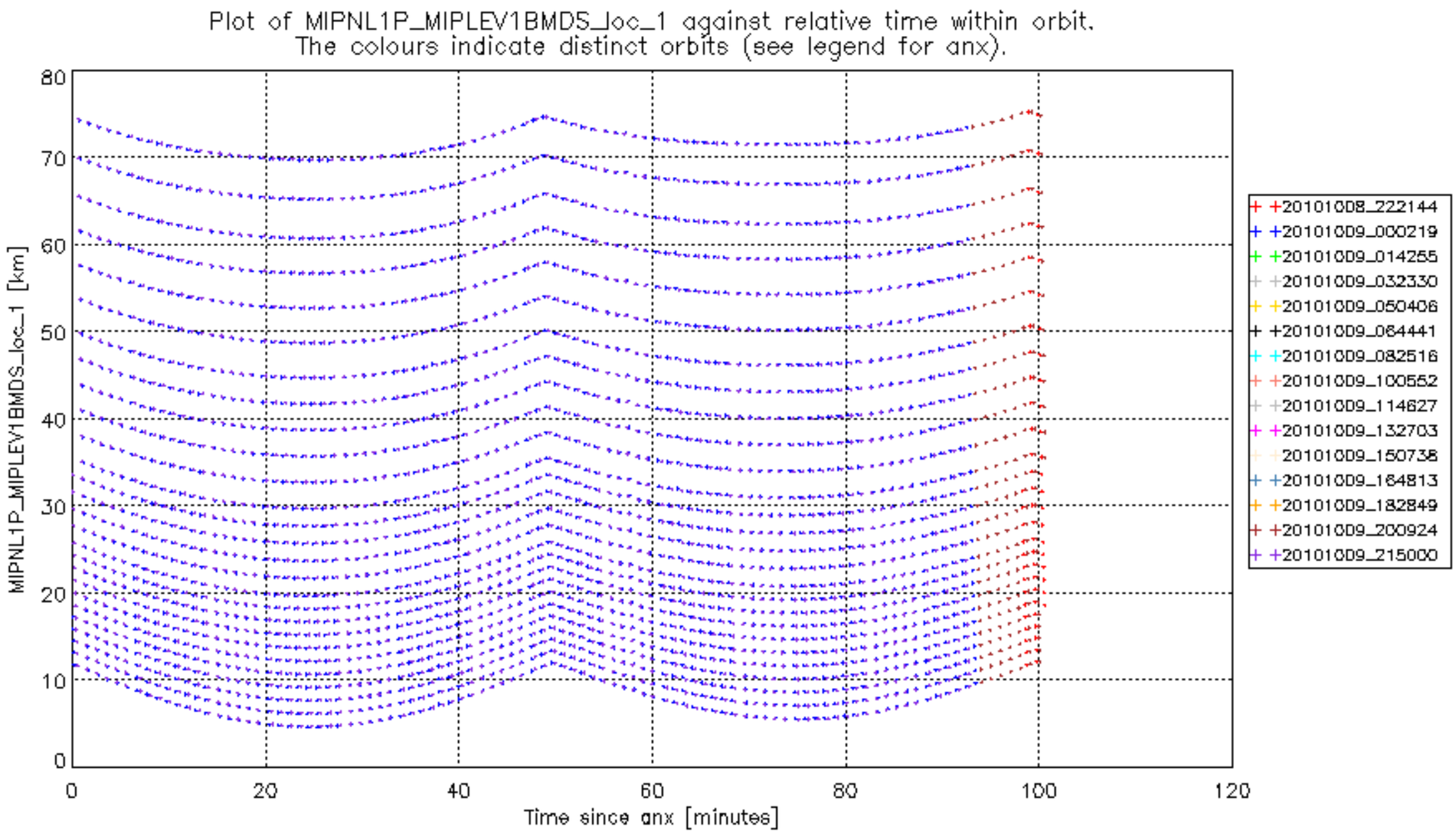
[]

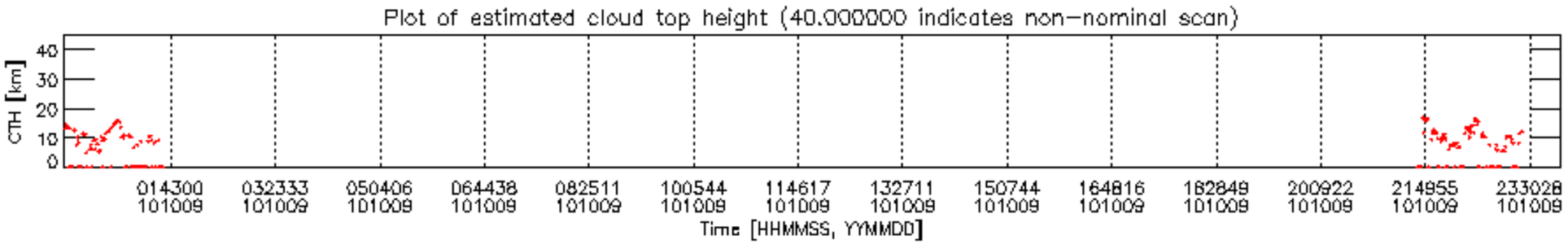
$10^{-7.000}$

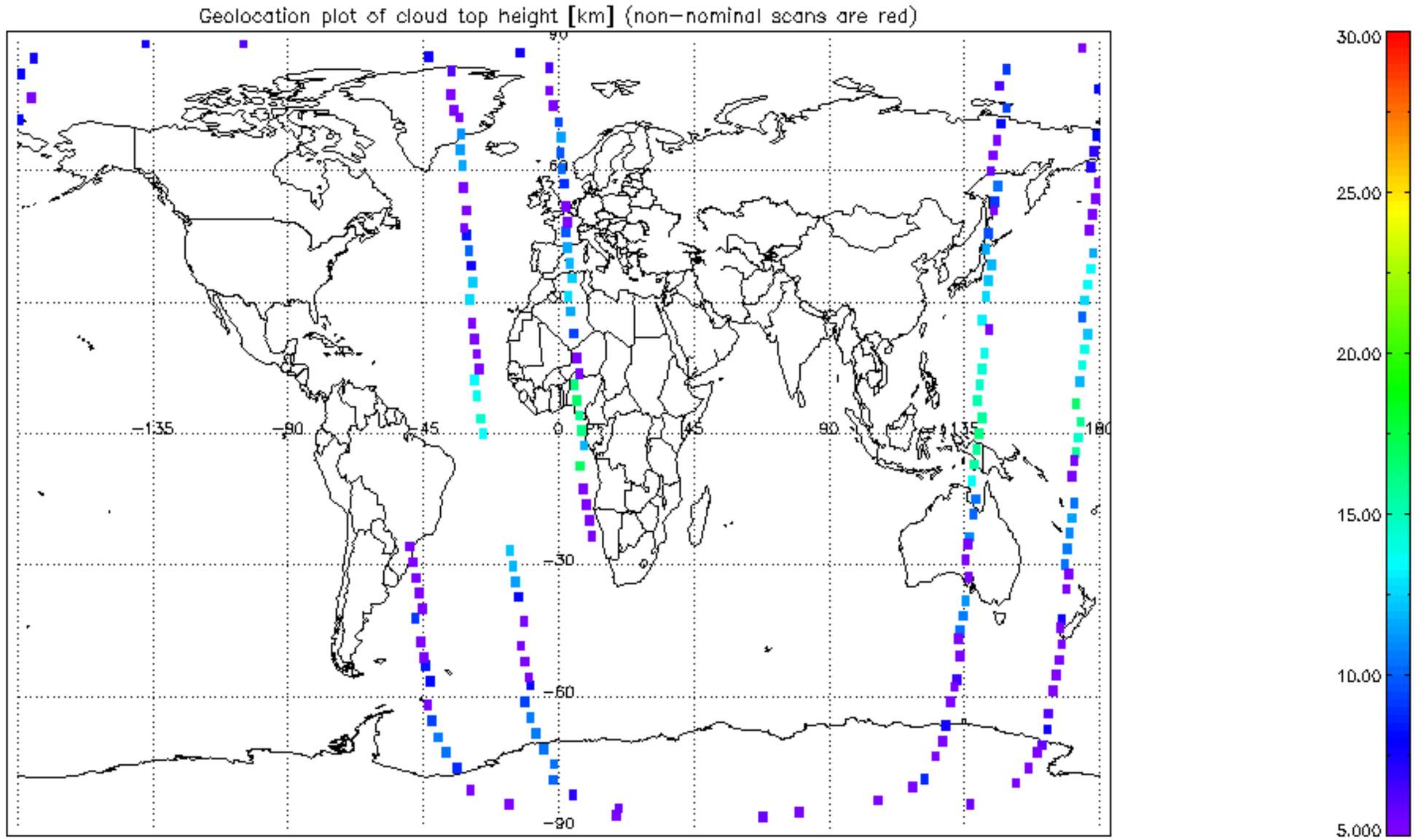
$10^{-8.000}$

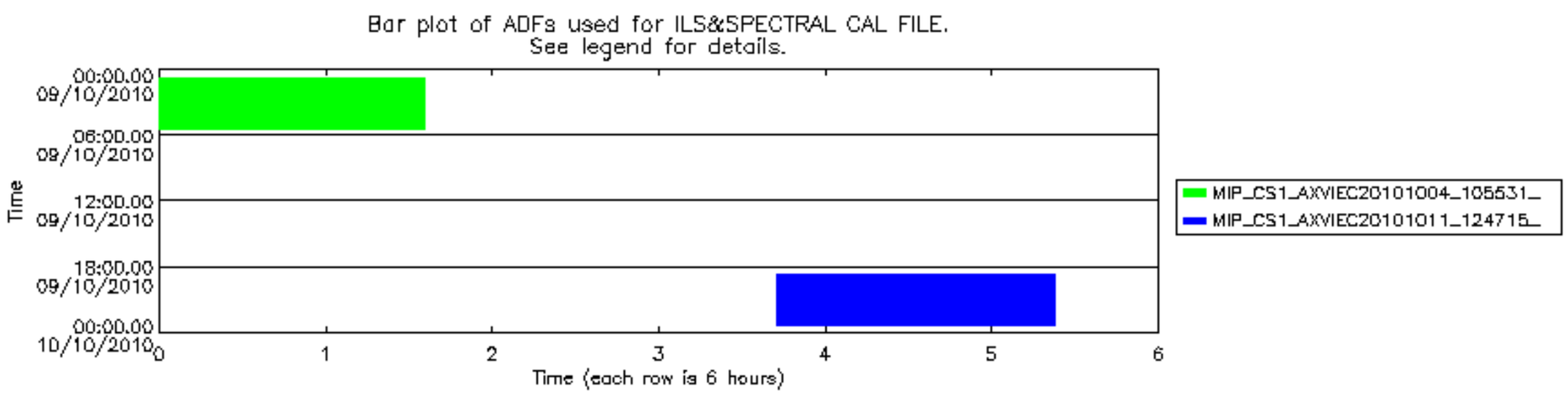
$10^{-9.000}$

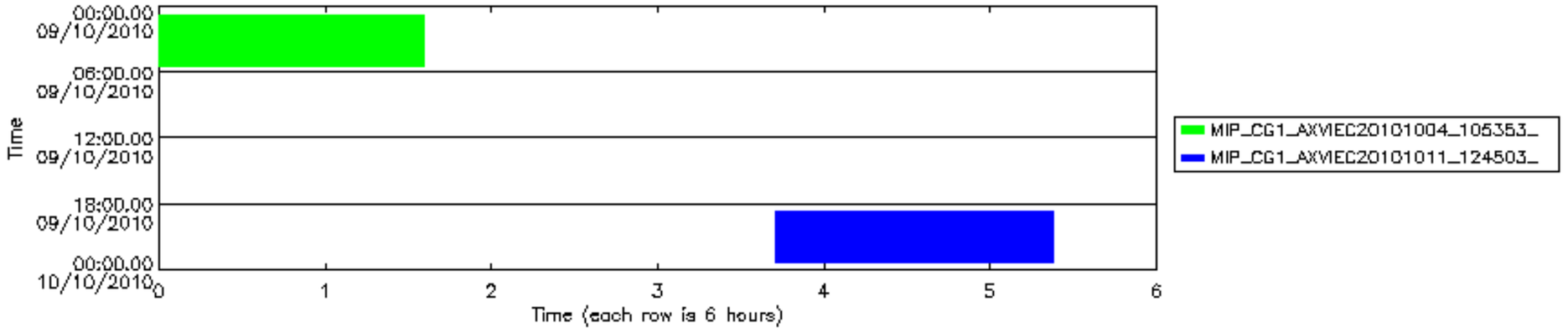

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against time.
The vertical grid lines indicate estimated anx events.
MIPNL1P_MIPLEV1BMDS_loc_1 [km]
80
70
60
50
40
30
20
10
0
014300 101009
032333 101009
050406 101009
064438 101009
082511 101009
100544 101009
114617 101009
132711 101009
150744 101009
164816 101009
182849 101009
200922 101009
214955 101009
233028 101009
Time [HHMMSS, YYMMDD]

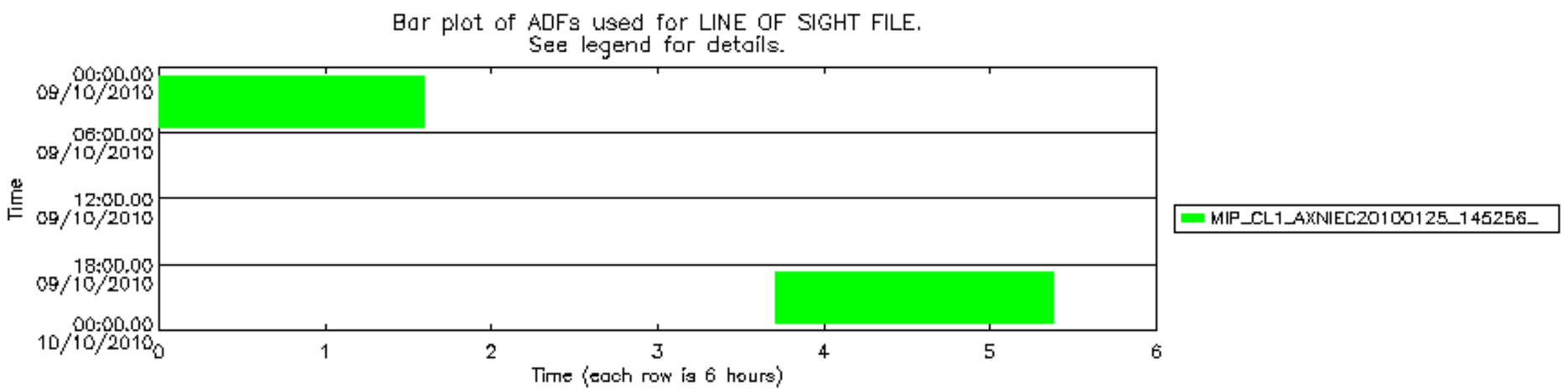

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).
MIPNL1P_MIPLEV1BMDS_loc_1 [km]
Time since anx [minutes]
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
+20101008_222144
+20101009_000219
+20101009_014255
+20101009_032330
+20101009_050406
+20101009_064441
+20101009_082516
+20101009_100552
+20101009_114627
+20101009_132703
+20101009_150738
+20101009_164813
+20101009_182849
+20101009_200924
+20101009_215000

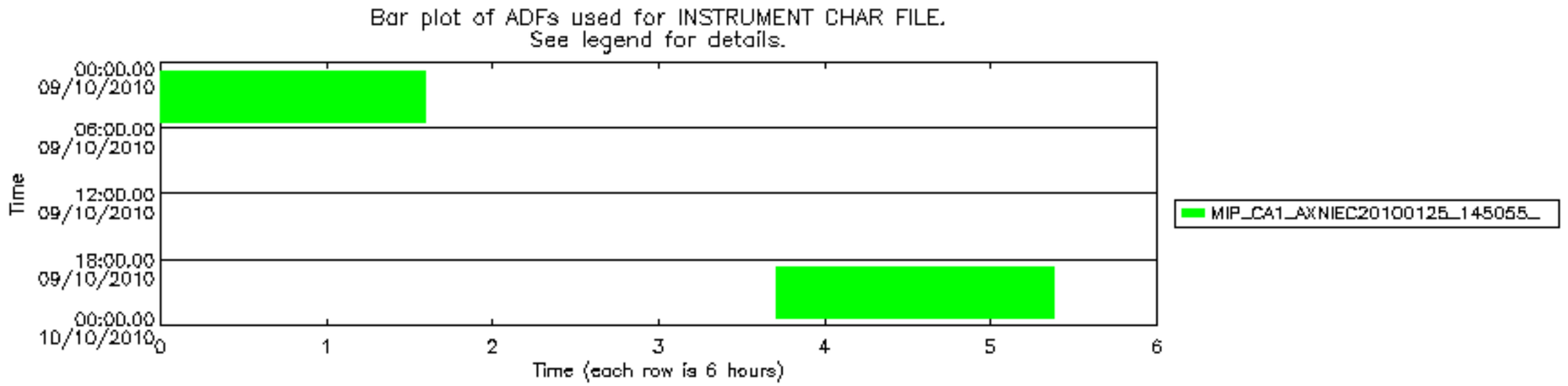

Plot of estimated cloud top height (40.000000 indicates non-nominal scan)
CTH [km]
40
30
20
10
0
014300 101009
032333 101009
050406 101009
064438 101009
082511 101009
100544 101009
114617 101009
132711 101009
150744 101009
164816 101009
182849 101009
200922 101009
214955 101009
233028 101009
Time [HHMMSS, YYMMDD]

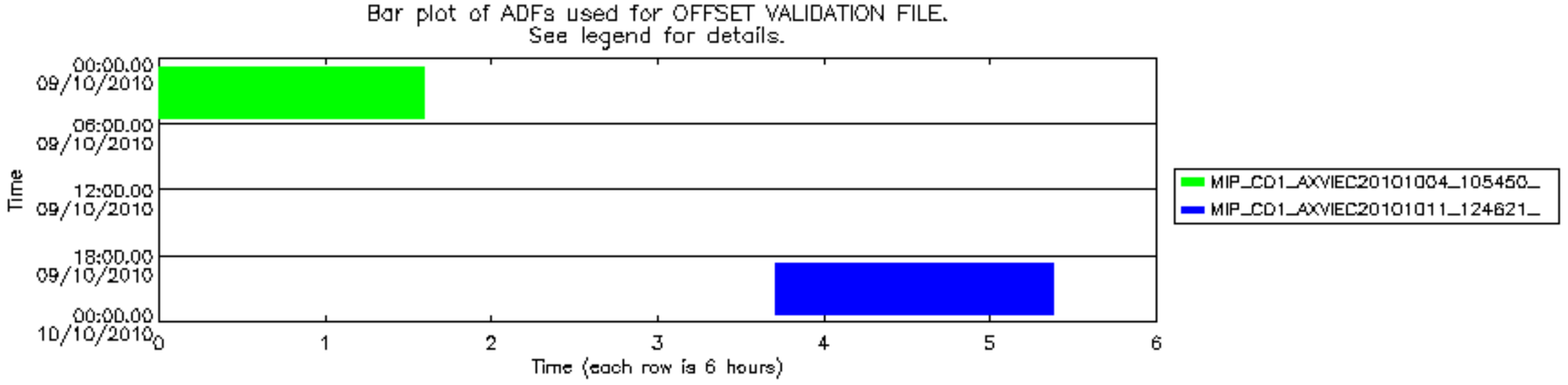

Geolocation plot of cloud top height [km] (non-nominal scans are red)
90
60
30
0
-30
-60
-90
-135
-90
-45
0
45
90
135
180
30.00
25.00
20.00
15.00
10.00
5.000

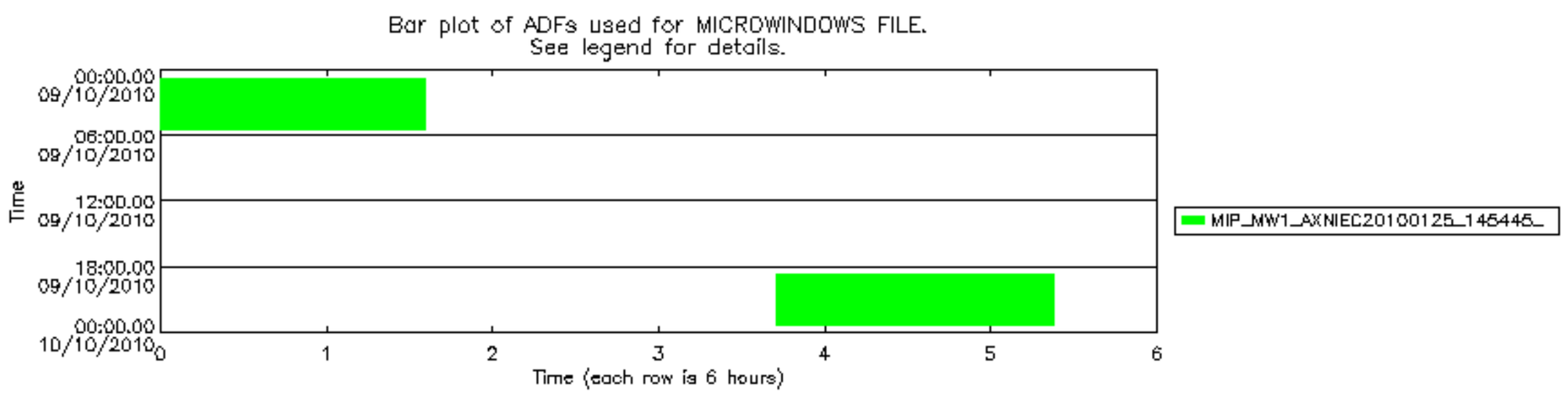

Bar plot of ADFs used for ILS&SPECTRAL CAL FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CS1_AXVIEC20101004_105531_
MIP_CS1_AXVIEC20101011_124715_

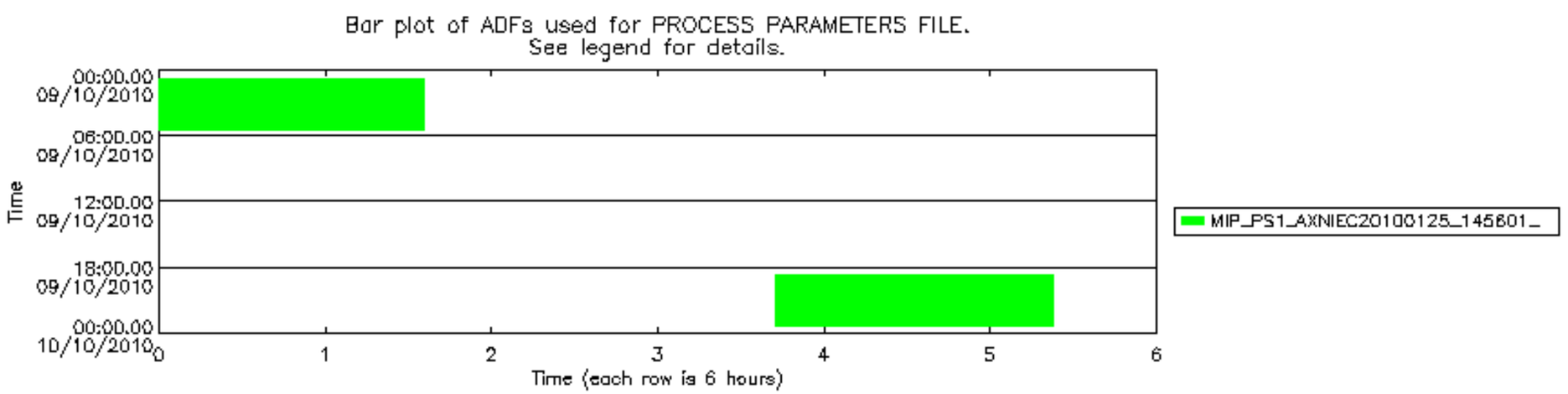

Bar plot of ADFs used for GAIN CALIBRATION FILE.
See legend for details.
Time
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CG1_AXVIEC20101004_105353_
MIP_CG1_AXVIEC20101011_124503_

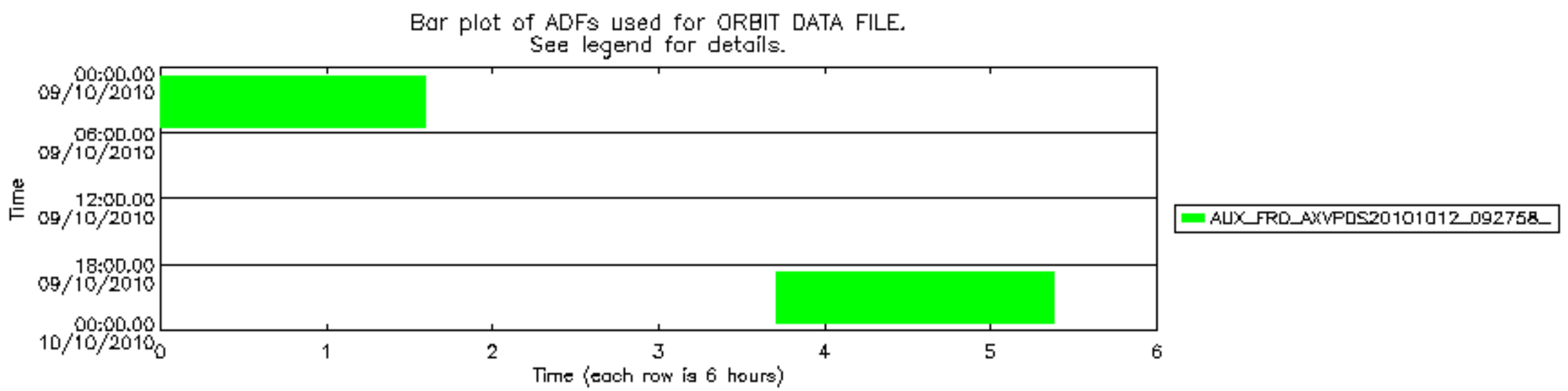

Bar plot of ADFs used for LINE OF SIGHT FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CL1_AXNIEC20100125_145256_


Bar plot of ADFs used for INSTRUMENT CHAR FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CA1_AXNIEC20100125_145055_


Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.
Time
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CD1_AXVIEC20101004_105450_
MIP_CD1_AXVIEC20101011_124621_


Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_MW1_AXNIEC20100125_145445_


Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_PS1_AXNIEC20100125_145601_


Bar plot of ADFs used for ORBIT DATA FILE.
See legend for details.
00:00.00
09/10/2010
06:00.00
09/10/2010
12:00.00
09/10/2010
18:00.00
09/10/2010
00:00.00
10/10/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FRO_AXVPDS20101012_092758_