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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	v1.39 28-07-2008
Time of report generation	16NOV2009 01:50:12
Data source version	MIPAS/04.67L02-P
Processing scope for products	04NOV2009 00:00:00 to 05NOV2009 00:00:00
Start time of first product within scope	03NOV2009 23:08:57
Stop time of last product within scope	04NOV2009 08:00:50
Total number of level 1 products	6
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.

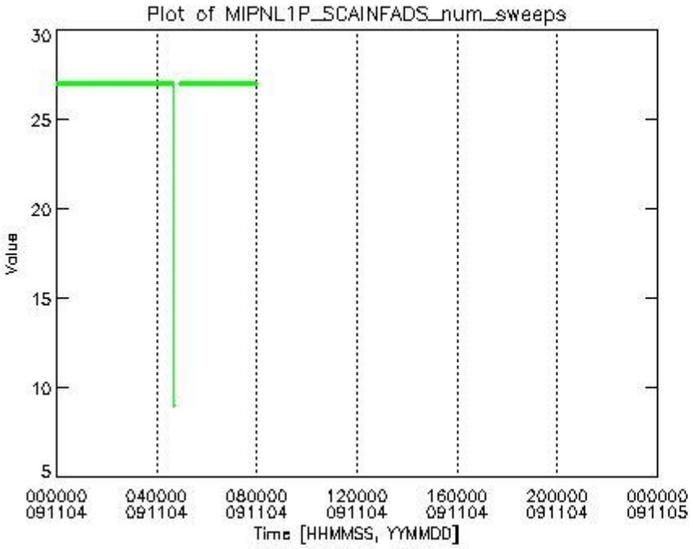
Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

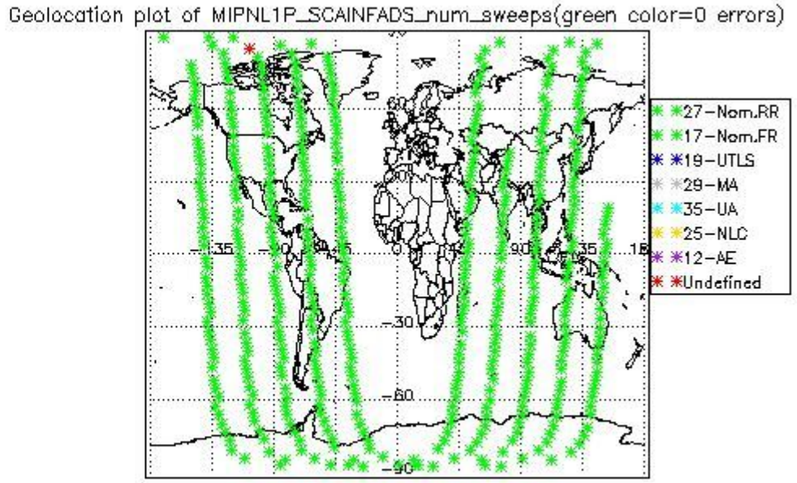
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)	#sweeps SPH
0	MIP_NL__1PPDPA20091103_230857_000060152084_00016_40150_1182.N1	03NOV2009 23:08:57	04NOV2009 00:49:12	0	0/0	27
1	MIP_NL__1PPDPA20091104_004918_000060452084_00017_40151_1187.N1	04NOV2009 00:49:18	04NOV2009 02:30:02	0	0/0	27
2	MIP_NL__1PPDPA20091104_023008_000060152084_00018_40152_1188.N1	04NOV2009 02:30:08	04NOV2009 04:10:23	0	0/0	27
3	MIP_NL__1PPDPA20091104_041029_000060452084_00019_40153_1186.N1	04NOV2009 04:10:29	04NOV2009 05:51:14	0	0/0	27
4	MIP_NL__1PPDPA20091104_055120_000060152084_00020_40154_1189.N1	04NOV2009 05:51:20	04NOV2009 07:31:35	0	0/0	27
5	MIP_NL__1PPDPA20091104_073141_000017492084_00021_40155_1191.N1	04NOV2009 07:31:41	04NOV2009 08:00:50	0	0/0	27

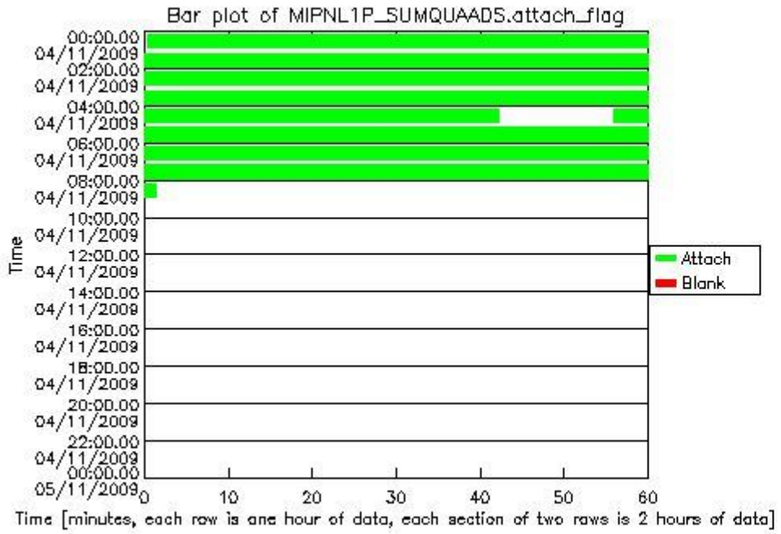
1.2 Product Quality Indicators

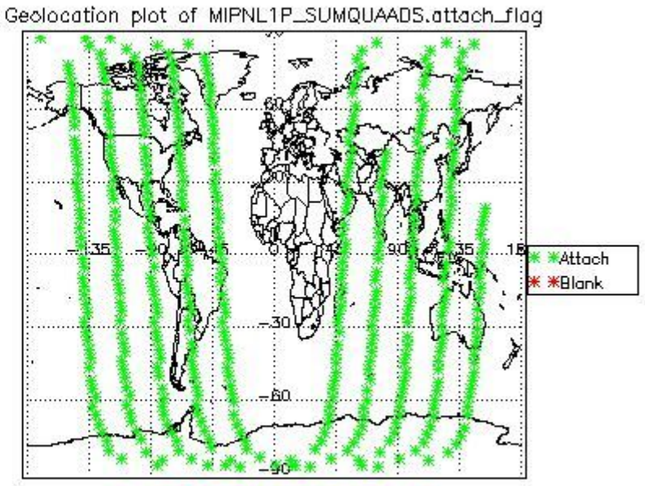
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

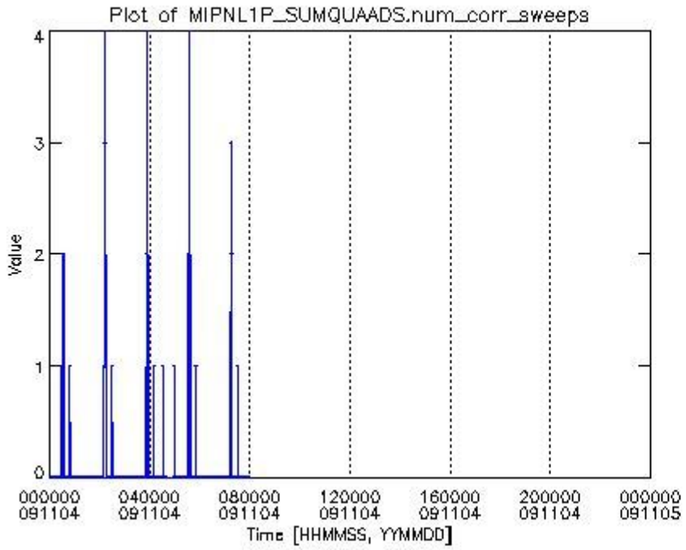
1.2.1 Trends and geolocation of Summary Quality and Scan Information ADS

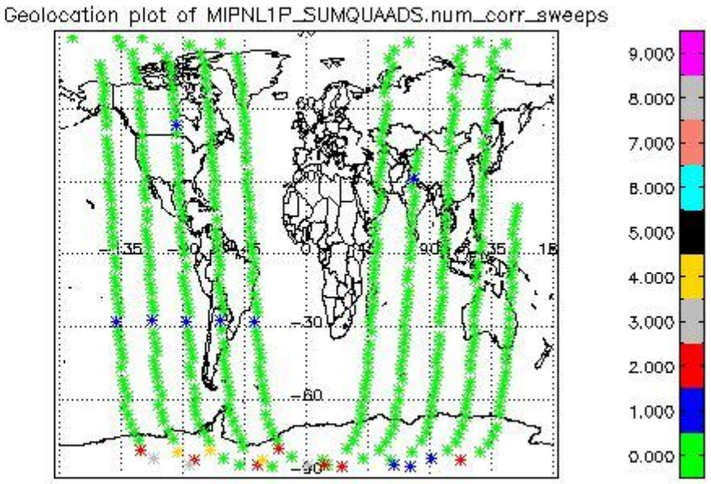

Plot of MIPNL1P_SCAINFADS_num_sweeps
Value
30
25
20
15
10
5
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

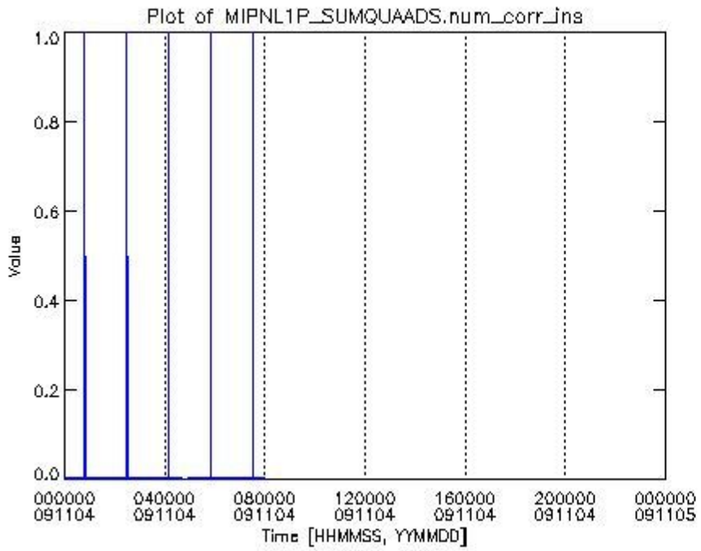

Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)
27-Nom.RR
17-Nom.FR
19-UTLS
29-MA
35-UA
25-NLC
12-AE
Undefined

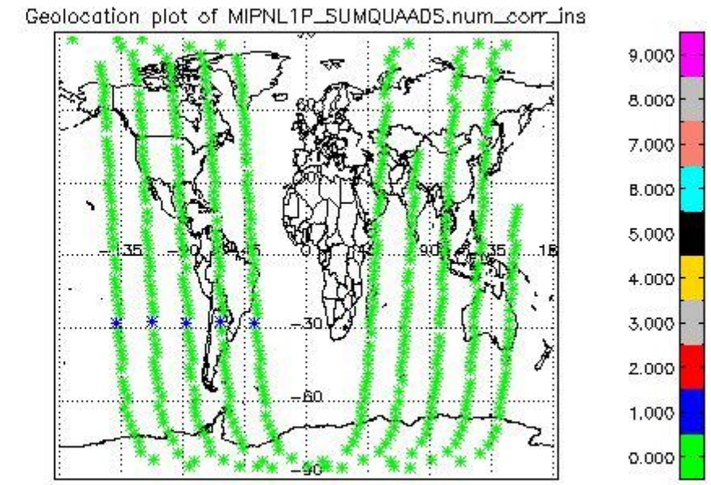

Bar plot of MIPNL1P_SUMQUAADS.attach_flag
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
0
10
20
30
40
50
60
Attach
Blank
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]

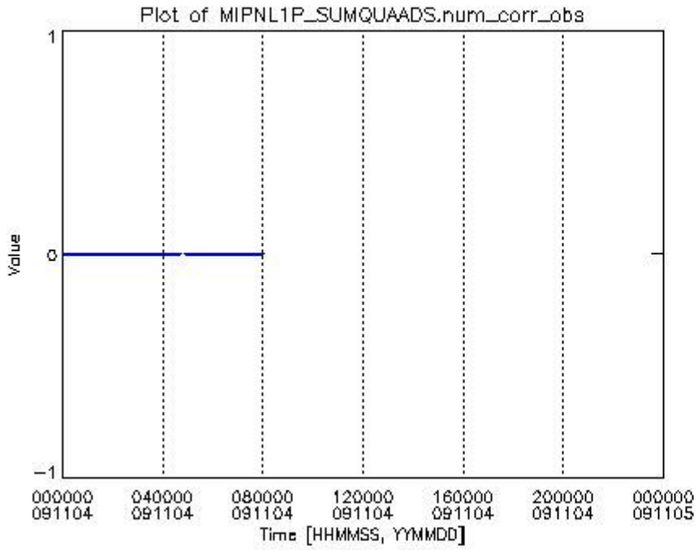

Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag
Attach
Blank

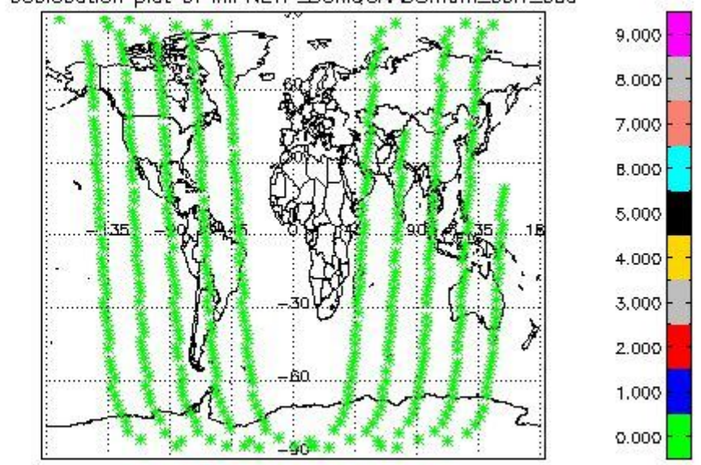

Plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
Value
0
1
2
3
4
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

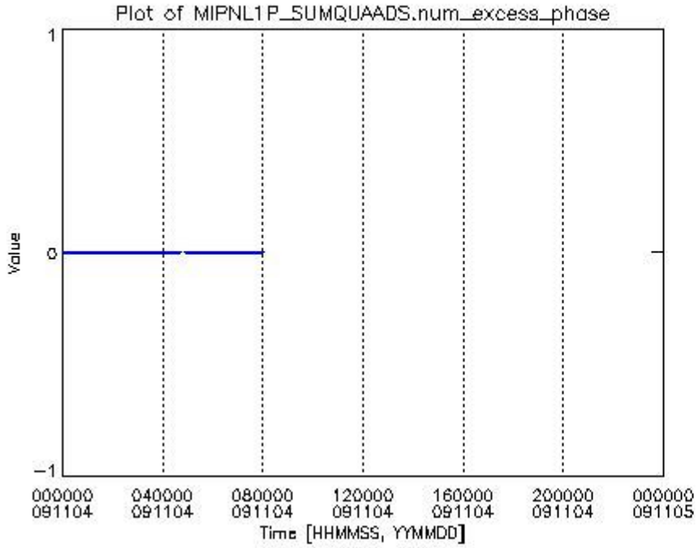

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

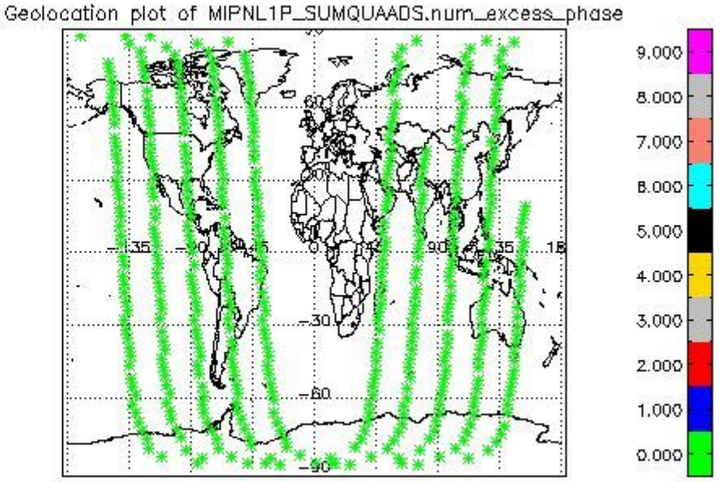

Plot of MIPNL1P_SUMQUAADS.num_corr_ins
Value
0.0
0.2
0.4
0.6
0.8
1.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

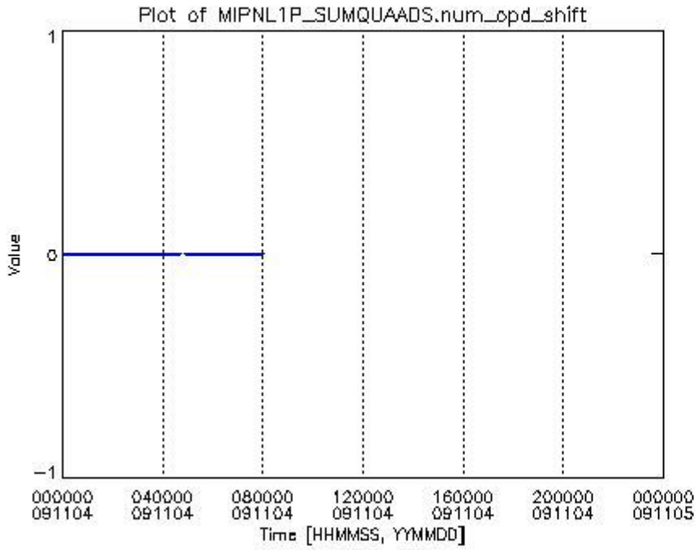

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

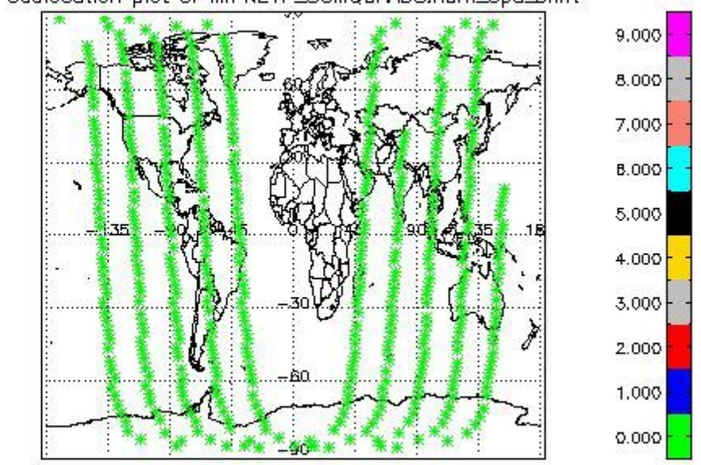

Plot of MIPNL1P_SUMQUAADS.num_corr_obs
Value
1
0
−1
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

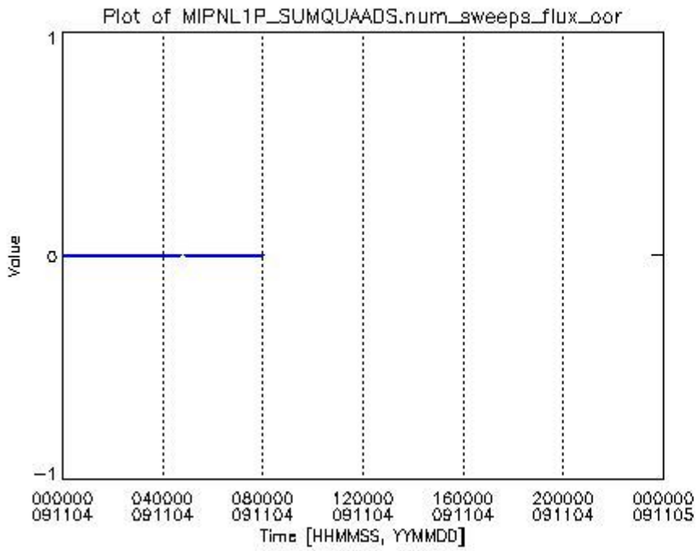

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

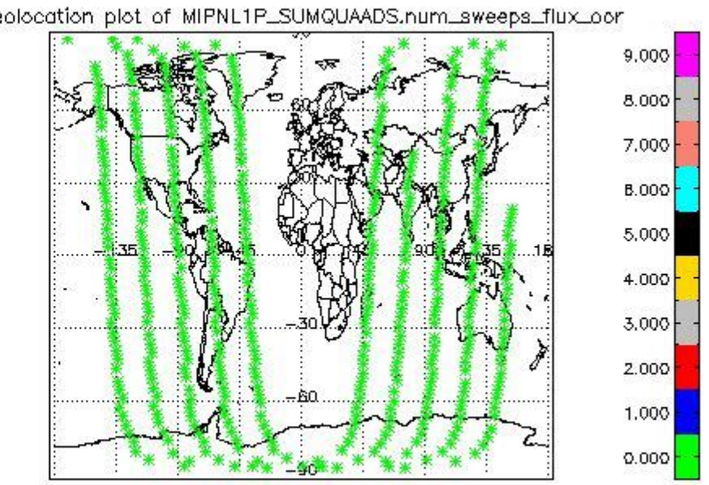

Plot of MIPNL1P_SUMQUAADS.num_excess_phase
Value
1
0
−1
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]


Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

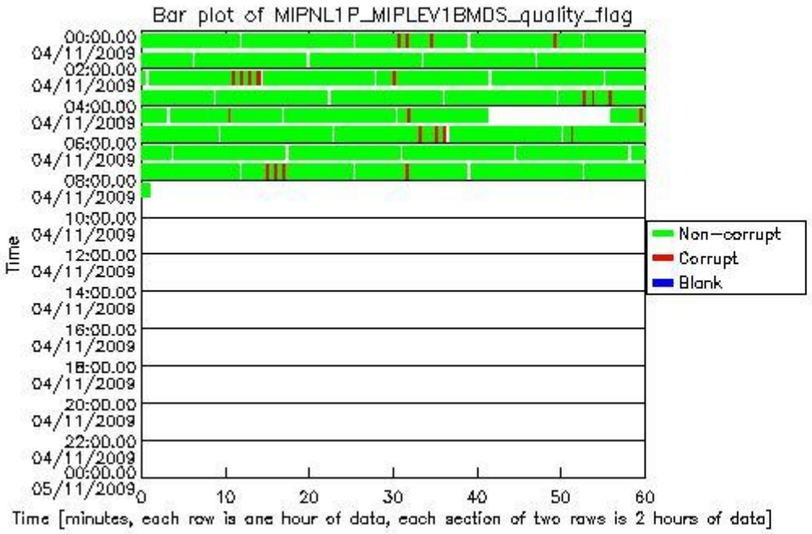


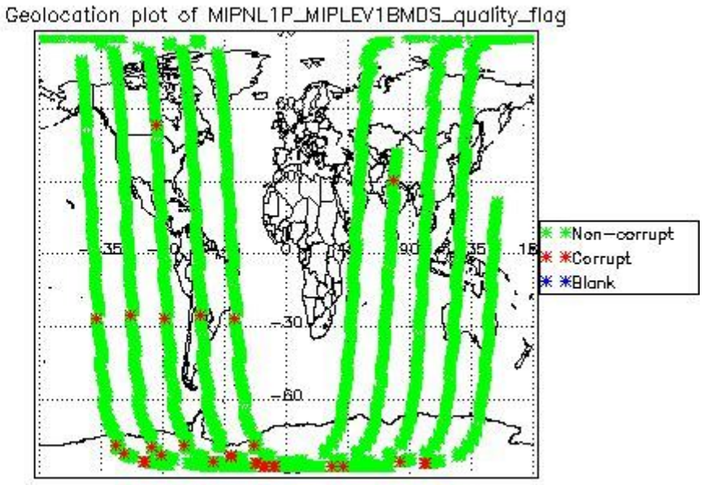


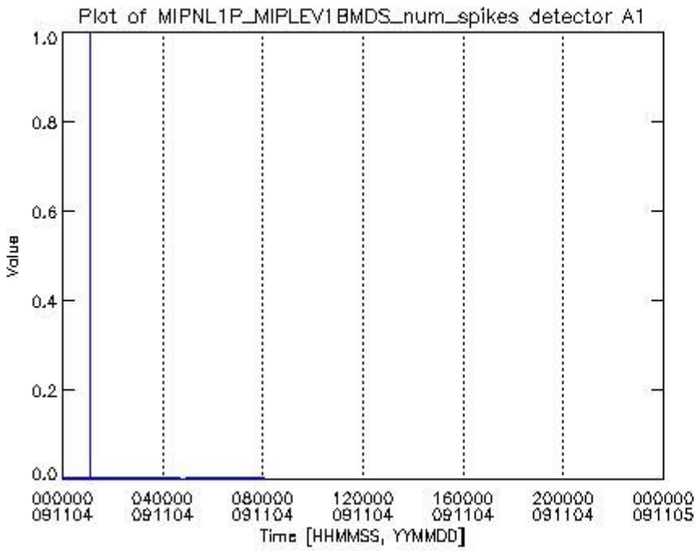


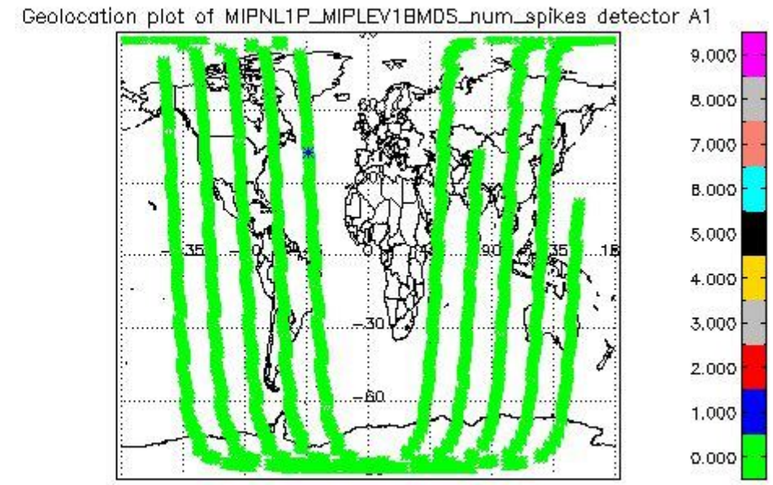


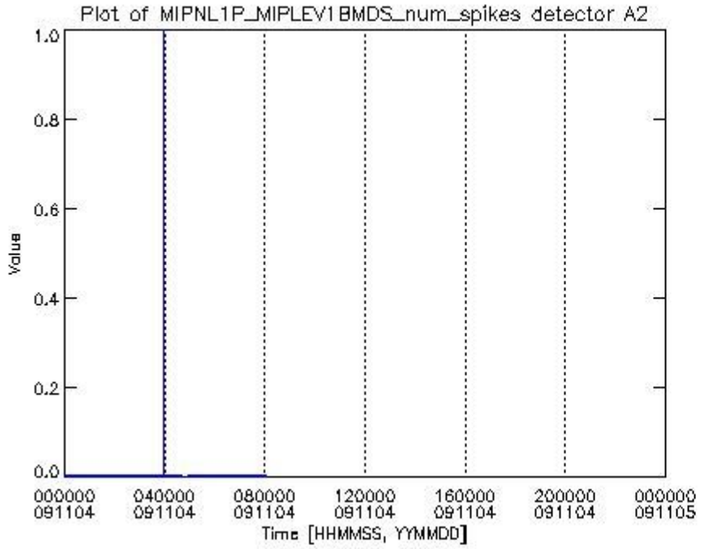
1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

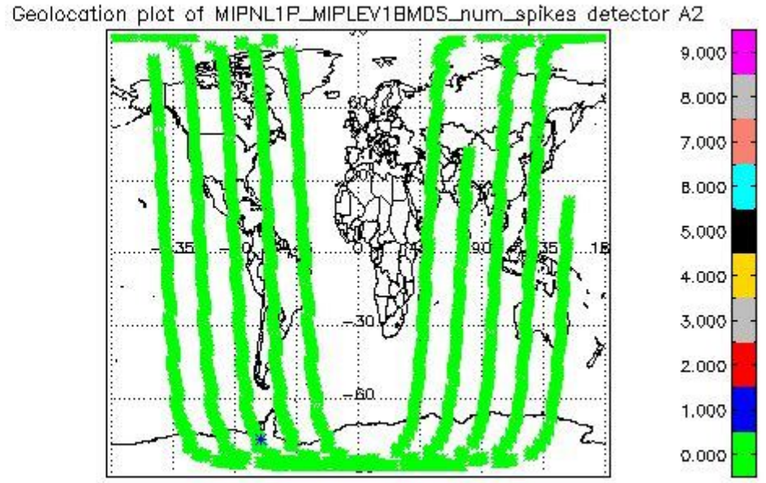

Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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

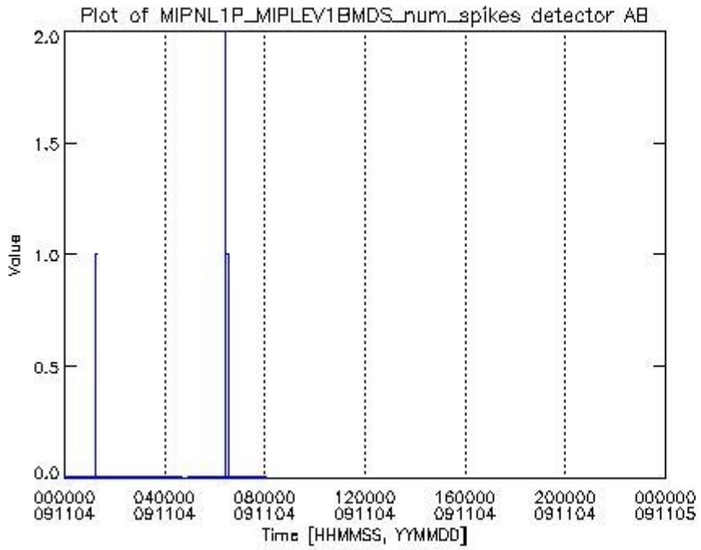

Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag
35
0
90
35
180
30
60
Non-corrupt
Corrupt
Blank

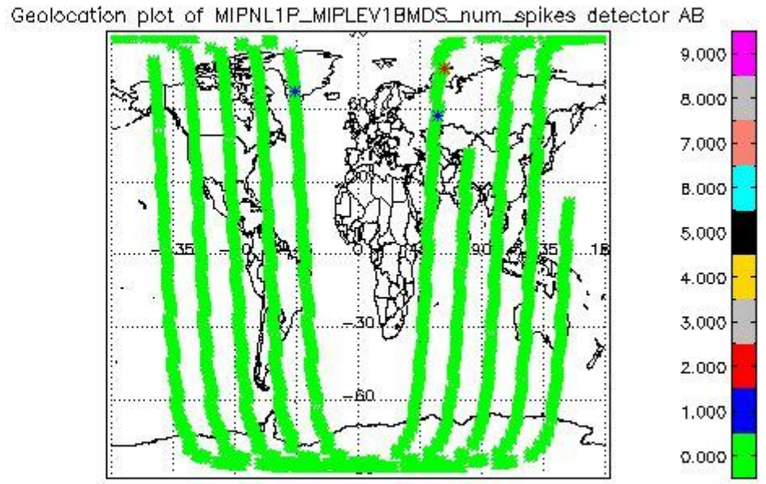

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

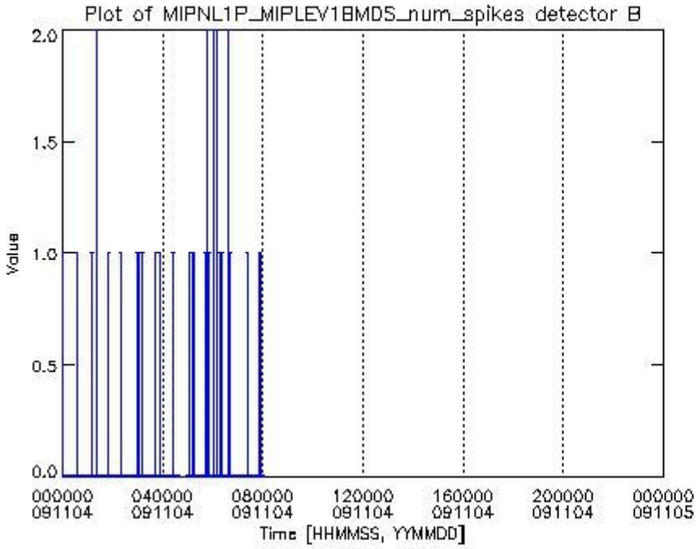

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
35
0
90
35
180
30
60
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

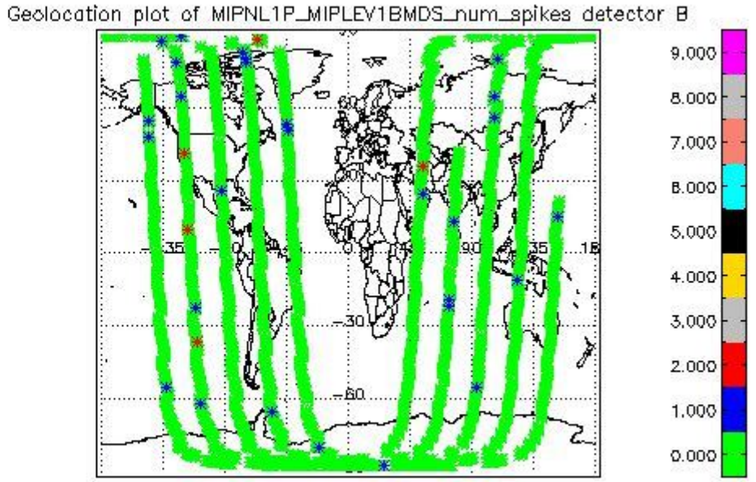

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

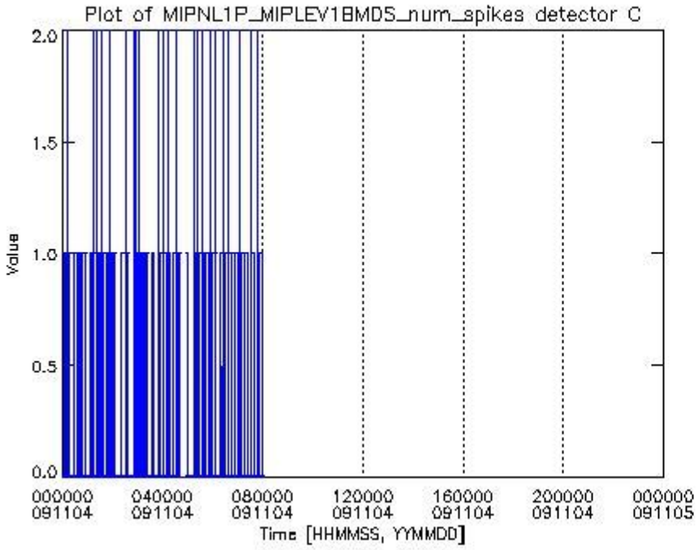

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

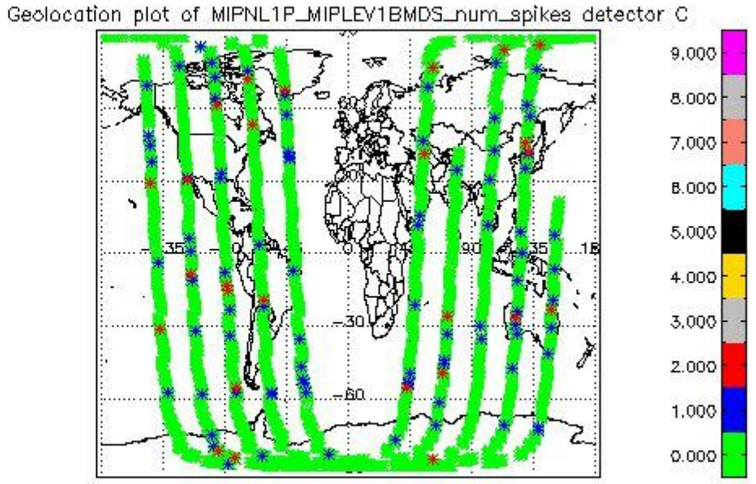

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

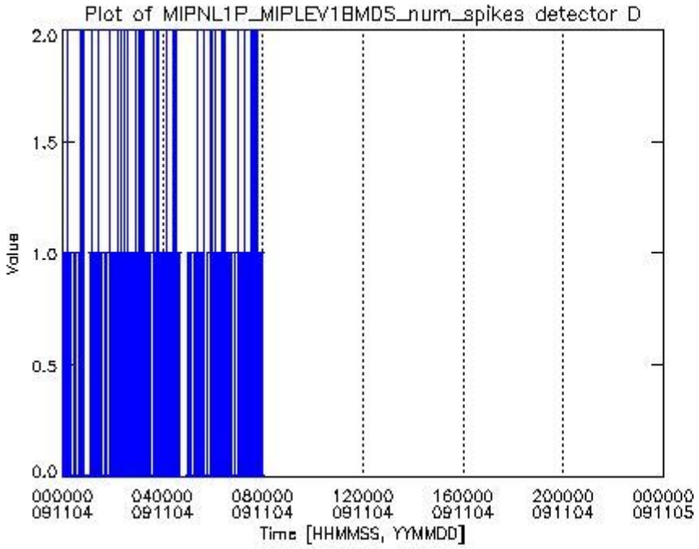

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

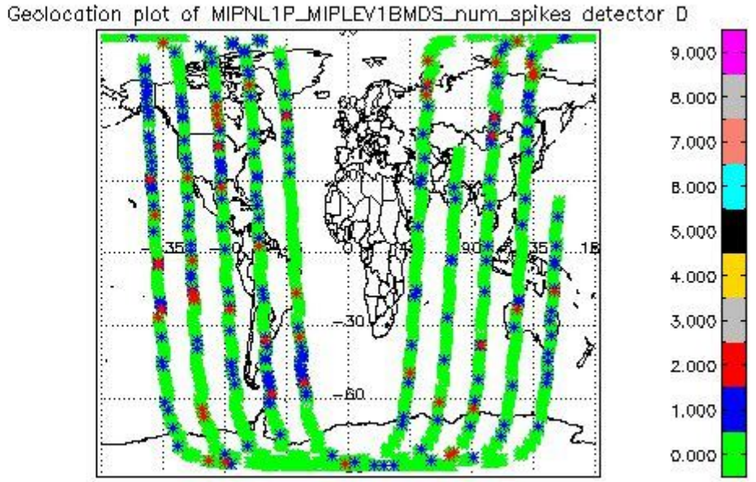

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

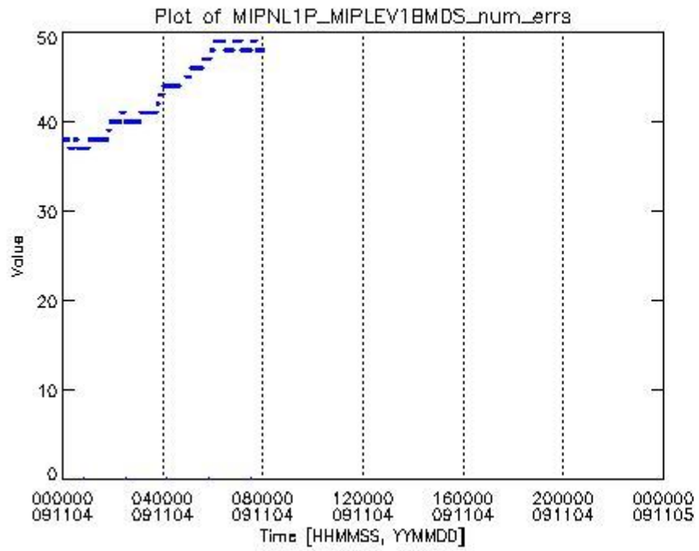

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

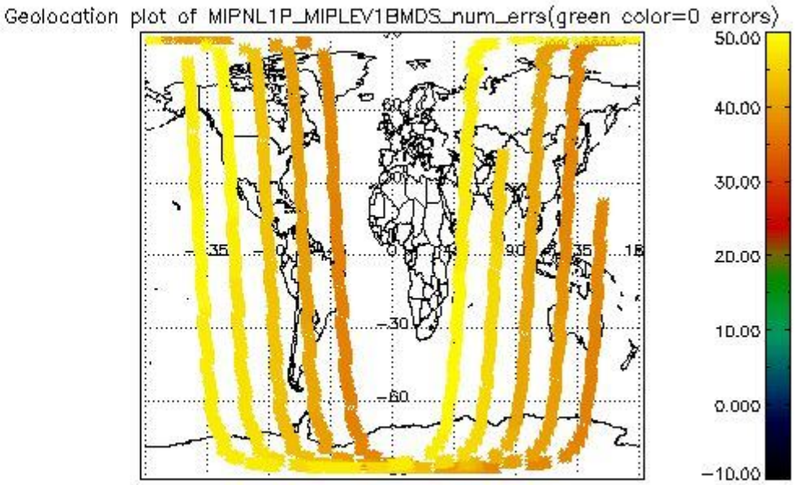

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

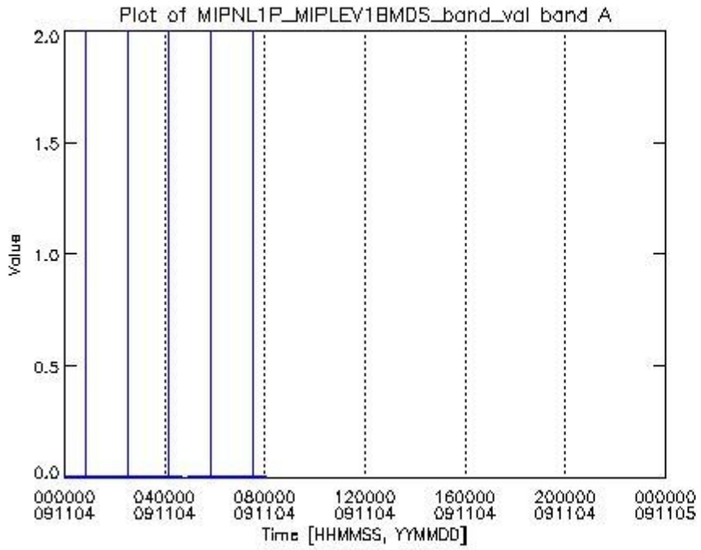

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

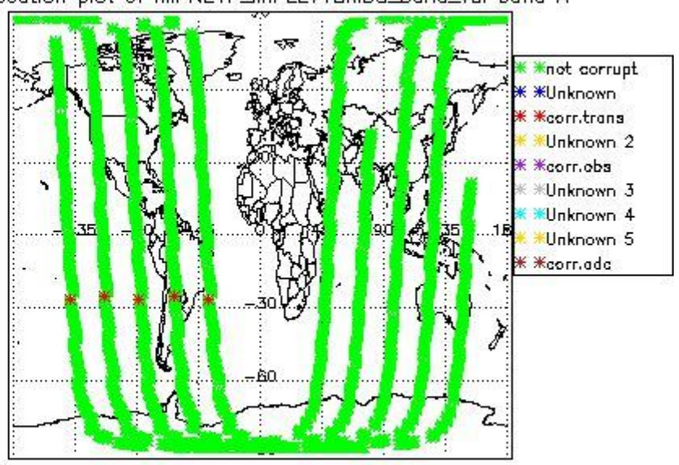

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

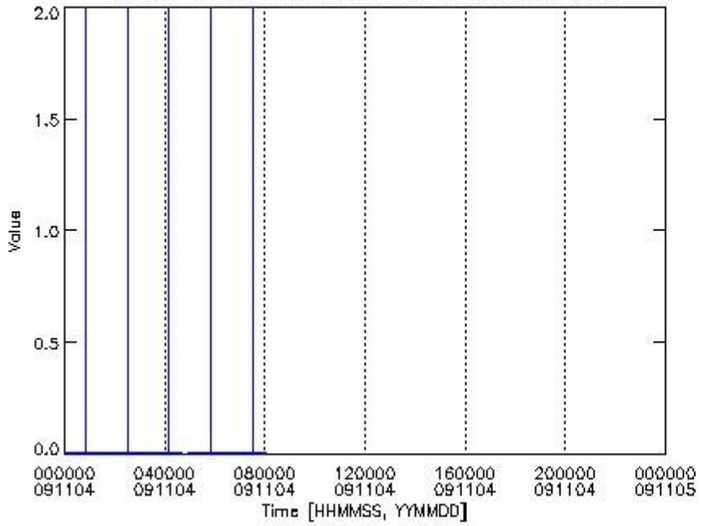

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

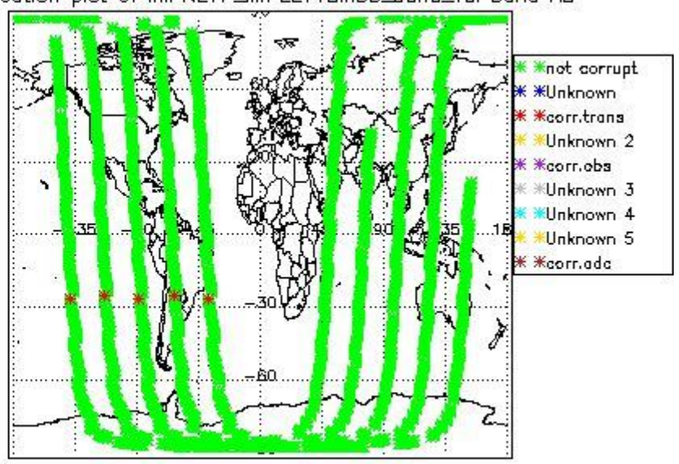

Plot of MIPNL1P_MIPLEV1BMDS_num_errs
Value
50
40
30
20
10
0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

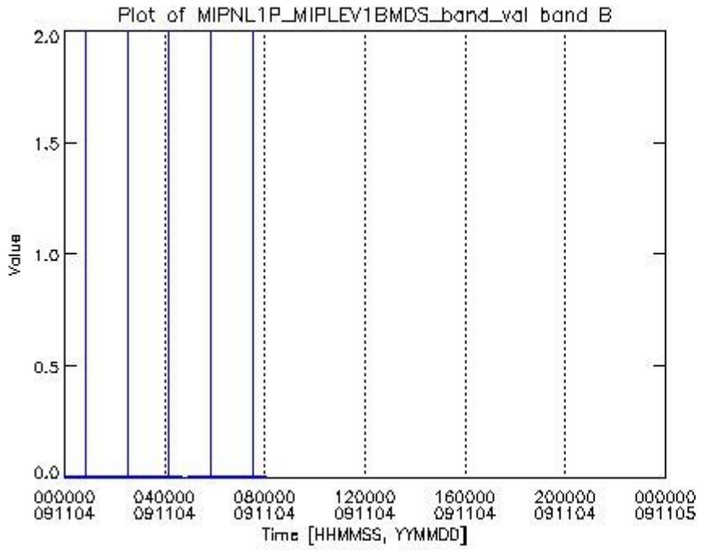

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs(green color=0 errors)
50.00
40.00
30.00
20.00
10.00
0.000
−10.00

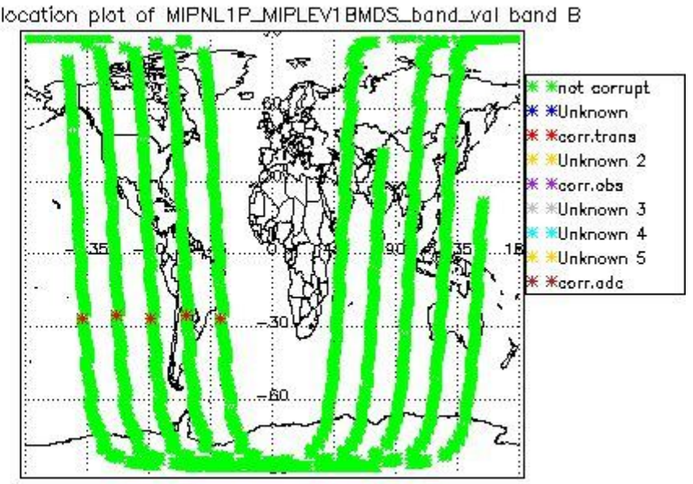

Plot of MIPNL1P_MIPLEV1BMDS_band_val band A
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

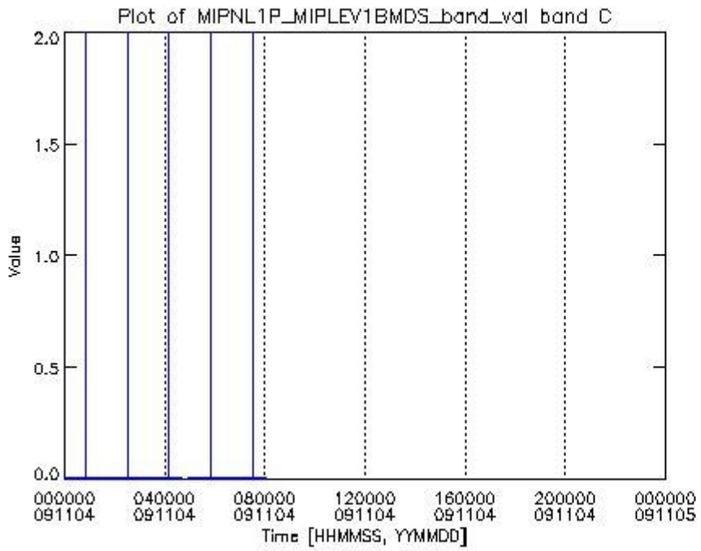

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc

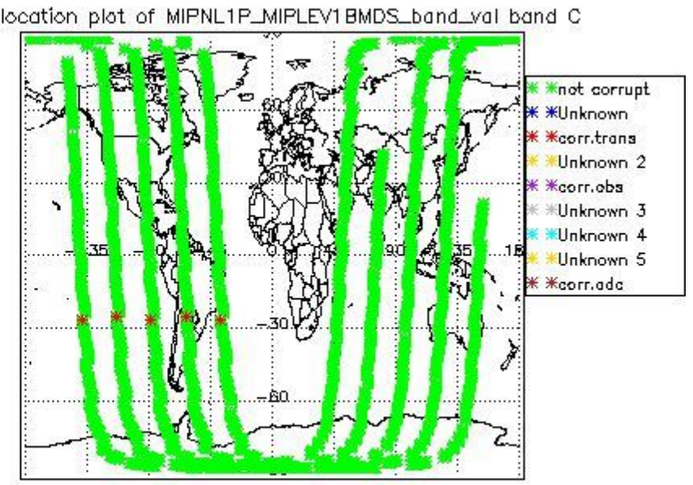

Plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

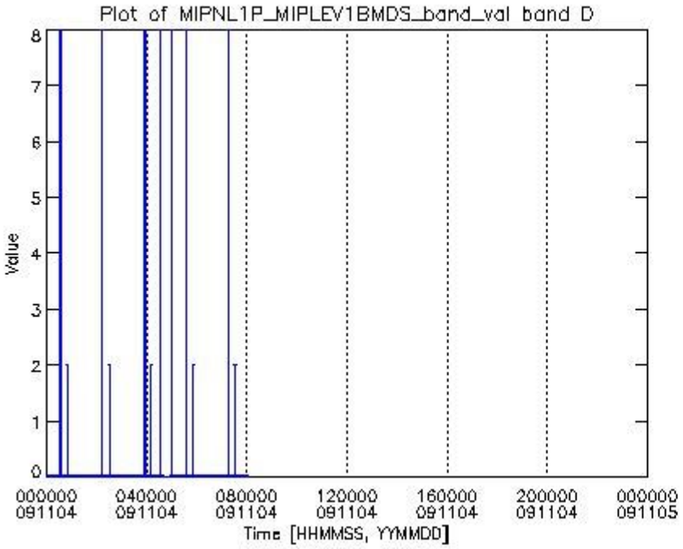

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc

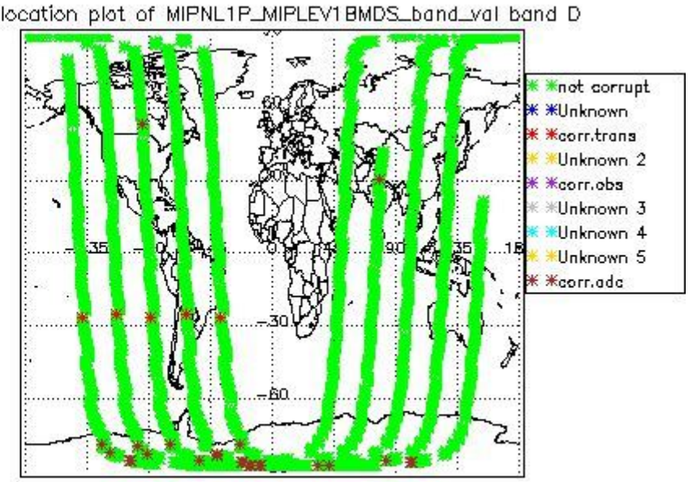

Plot of MIPNL1P_MIPLEV1BMDS_band_val band B
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

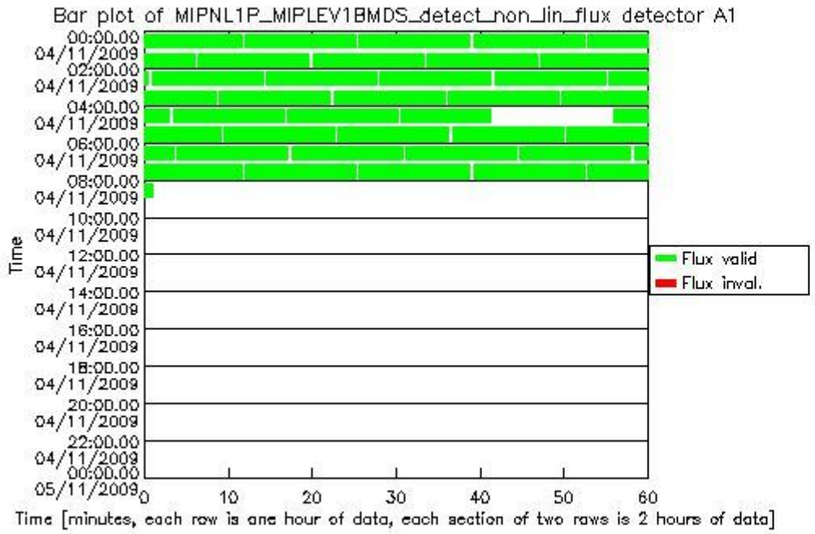

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc

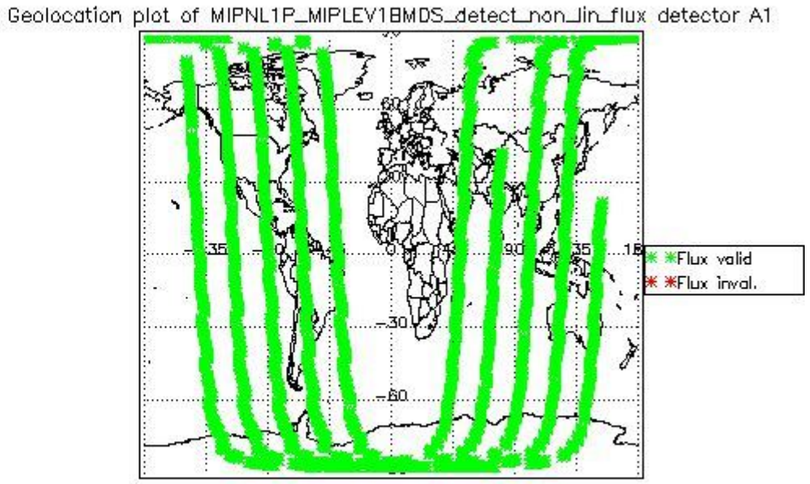

Plot of MIPNL1P_MIPLEV1BMDS_band_val band C
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]


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

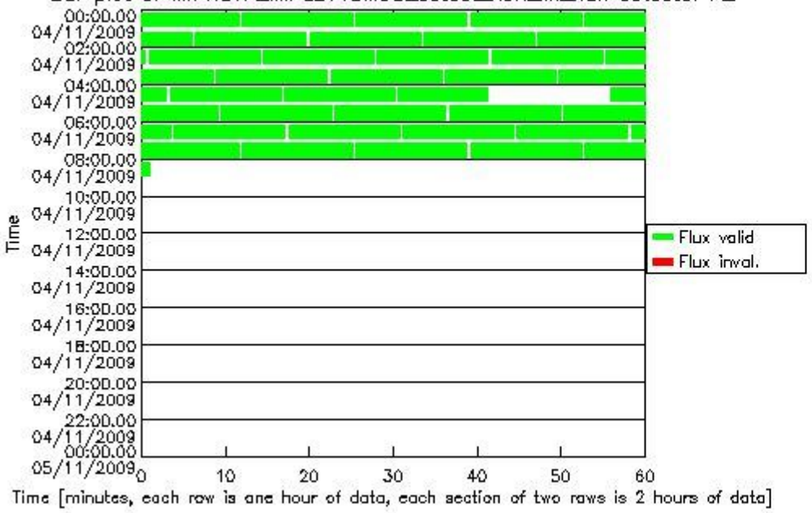

Plot of MIPNL1P_MIPLEV1BMDS_band_val band D
Value
Time [HHMMSS, YYMMDD]
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105


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


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Time
04/11/2009
05/11/2009
Flux valid
Flux inval.
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]

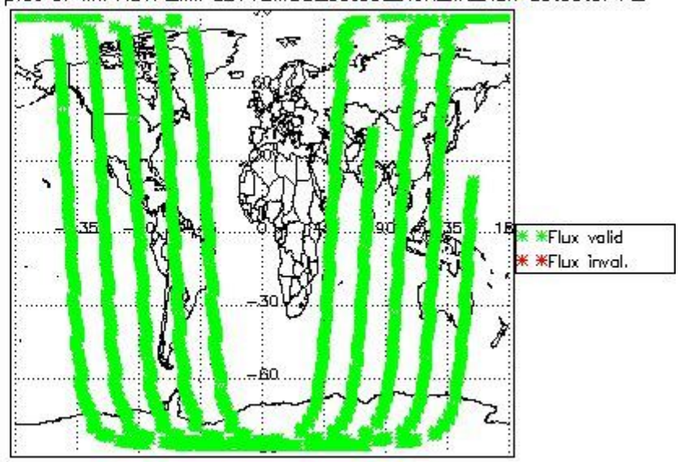

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Flux valid
Flux inval.

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2

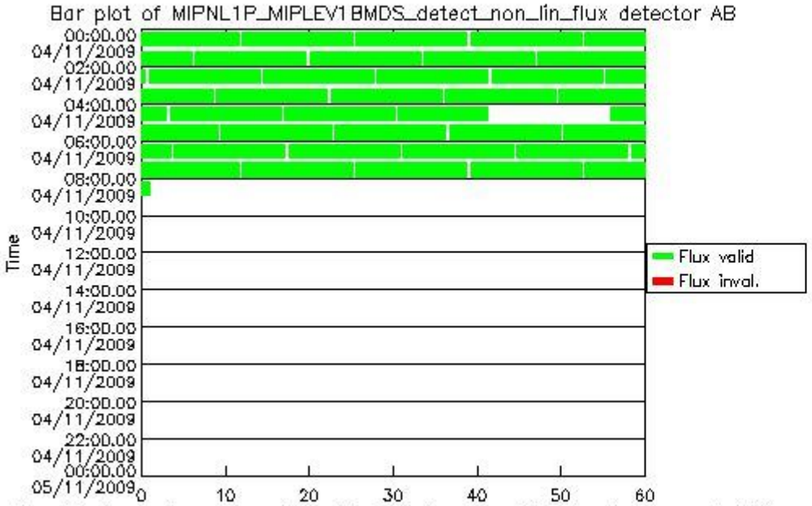


Time [minutes, each row is one hour of data, each section of two rows is 2 hours of data]

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2

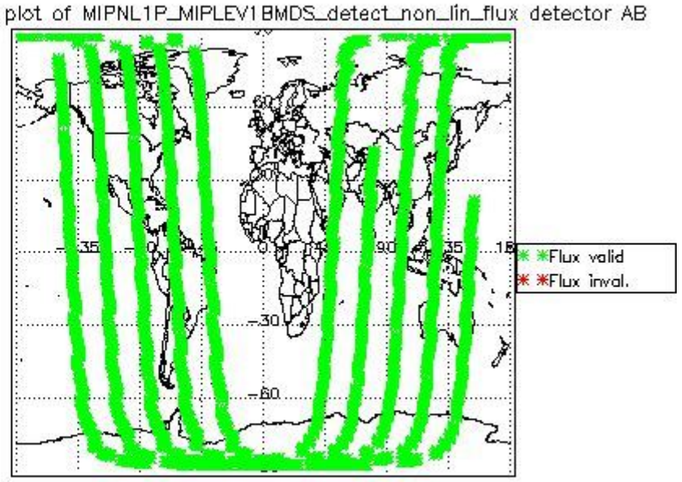


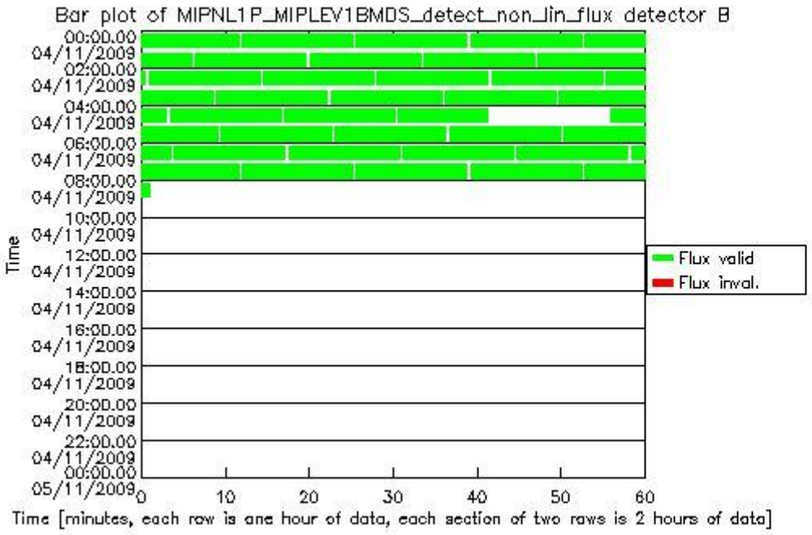
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB

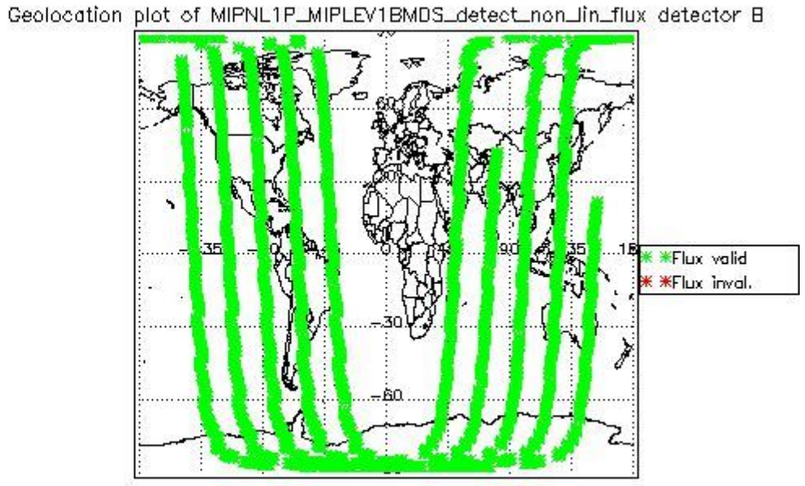


Time [minutes, each row is one hour of data, each section of two rows is 2 hours of data]

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



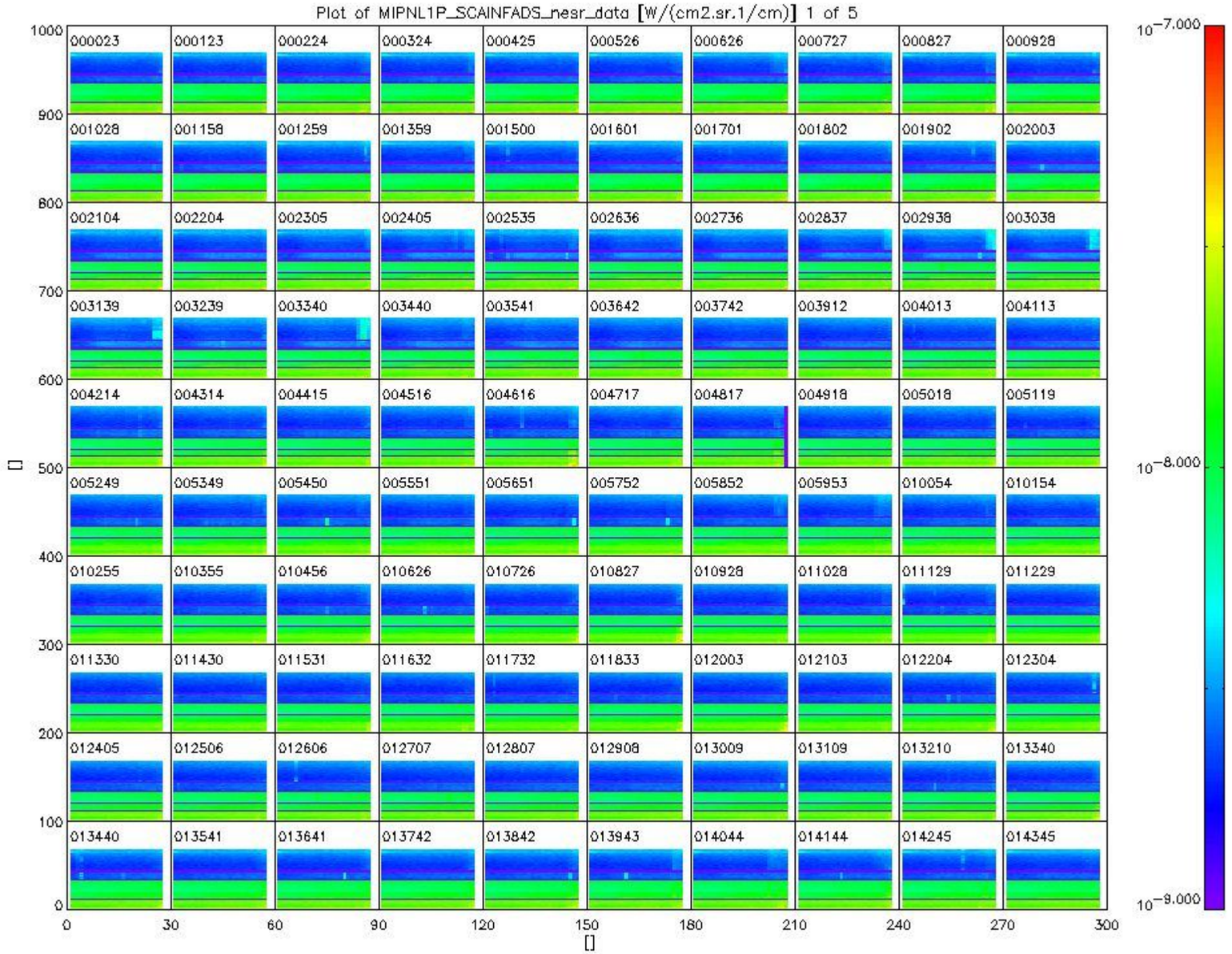


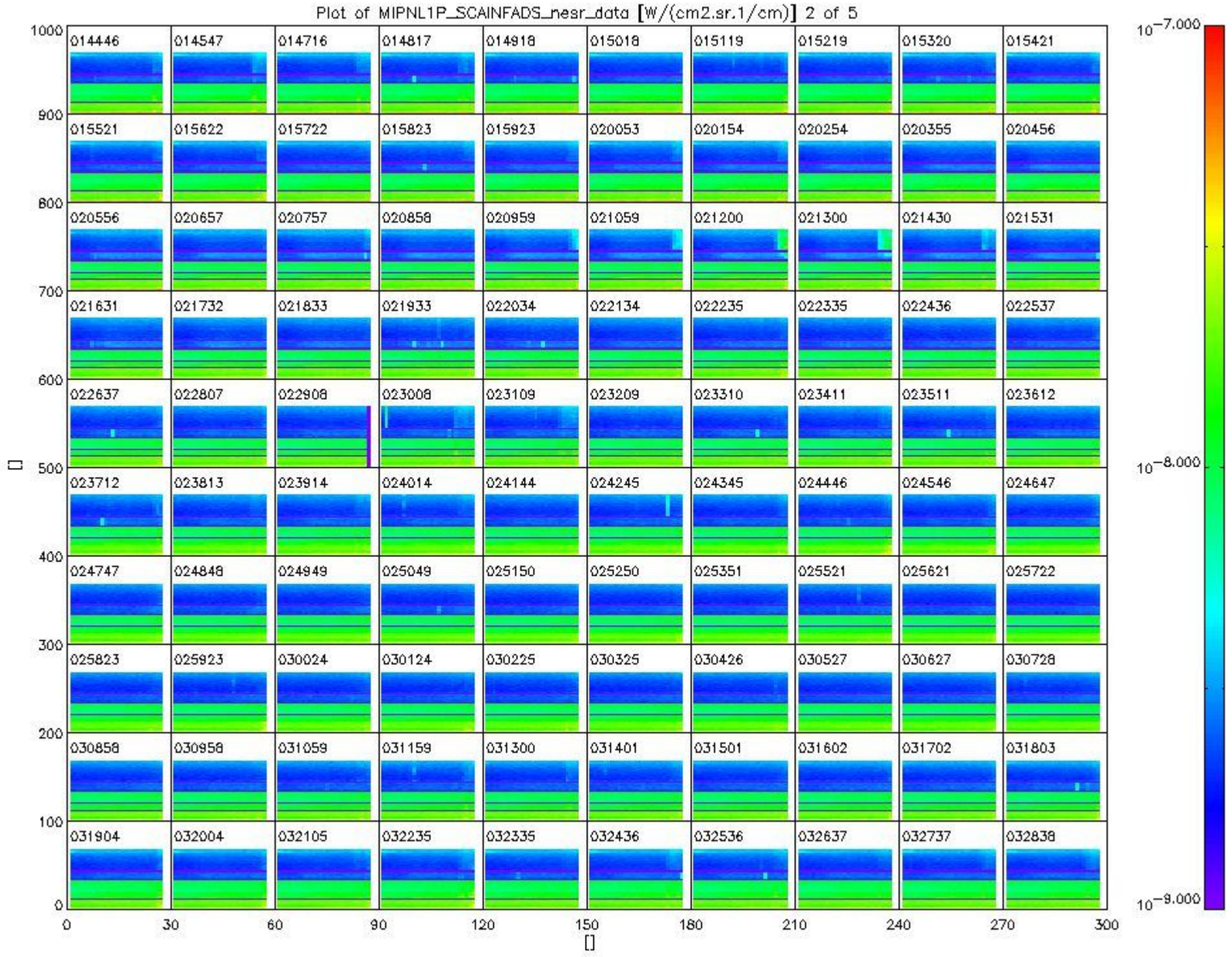


1.2.3 Scan information ADS

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 5
[]
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$
000023 000123 000224 000324 000425 000526 000626 000727 000827 000928
001028 001158 001259 001359 001500 001601 001701 001802 001902 002003
002104 002204 002305 002405 002535 002636 002736 002837 002938 003038
003139 003239 003340 003440 003541 003642 003742 003912 004013 004113
004214 004314 004415 004516 004616 004717 004817 004918 005018 005119
005249 005349 005450 005551 005651 005752 005852 005953 010054 010154
010255 010355 010456 010626 010726 010827 010928 011028 011129 011229
011330 011430 011531 011632 011732 011833 012003 012103 012204 012304
012405 012506 012606 012707 012807 012908 013009 013109 013210 013340
013440 013541 013641 013742 013842 013943 014044 014144 014245 014345

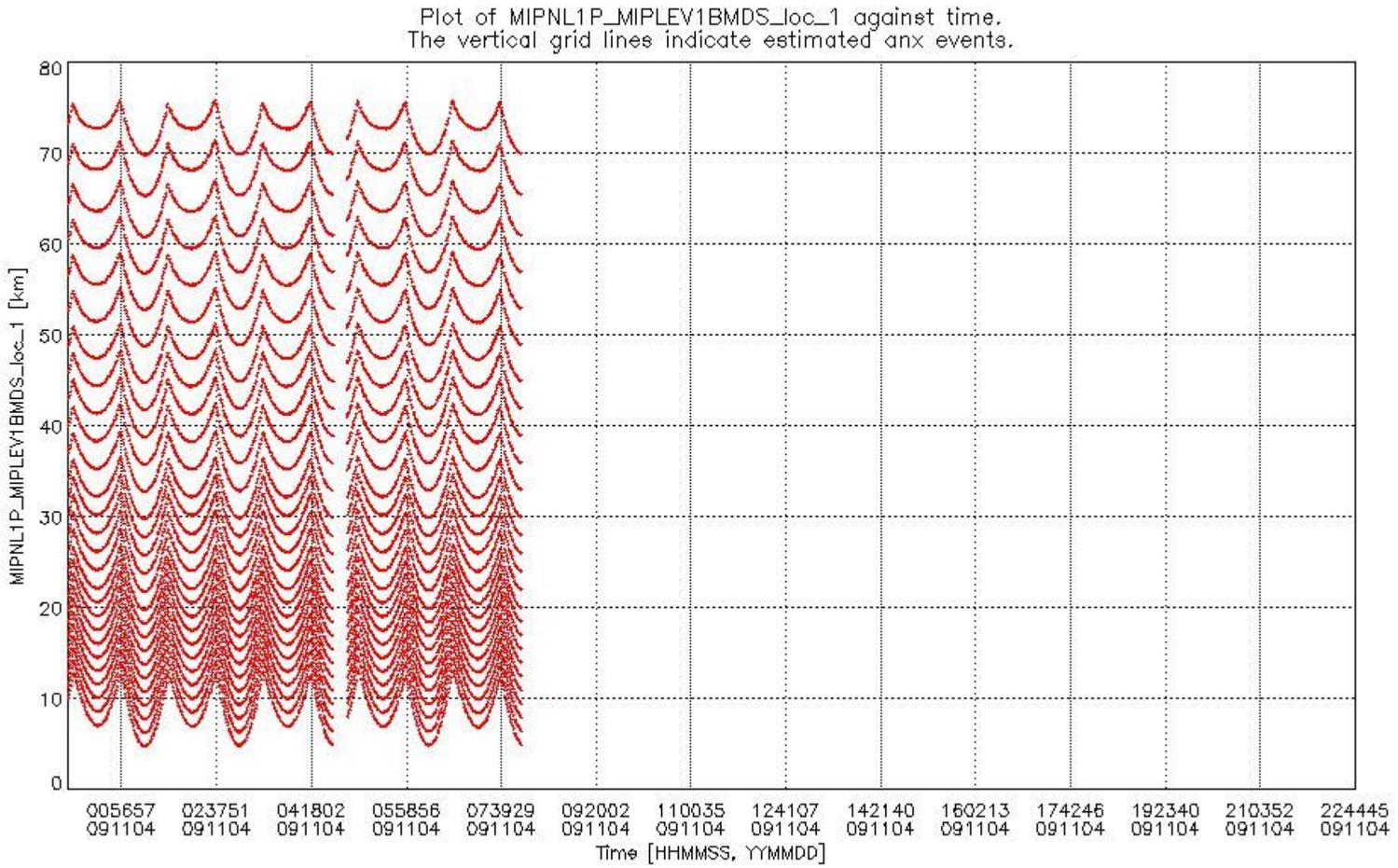

Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 2 of 5
014446 014547 014716 014817 014918 015018 015119 015219 015320 015421
015521 015622 015722 015823 015923 020053 020154 020254 020355 020456
020556 020657 020757 020858 020959 021059 021200 021300 021430 021531
021631 021732 021833 021933 022034 022134 022235 022335 022436 022537
022637 022807 022908 023008 023109 023209 023310 023411 023511 023612
023712 023813 023914 024014 024144 024245 024345 024446 024546 024647
024747 024848 024949 025049 025150 025250 025351 025521 025621 025722
025823 025923 030024 030124 030225 030325 030426 030527 030627 030728
030858 030958 031059 031159 031300 031401 031501 031602 031702 031803
031904 032004 032105 032235 032335 032436 032536 032637 032737 032838
1000
900
800
700
600
500
400
300
200
100
0
[]
0 30 60 90 120 150 180 210 240 270 300
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$

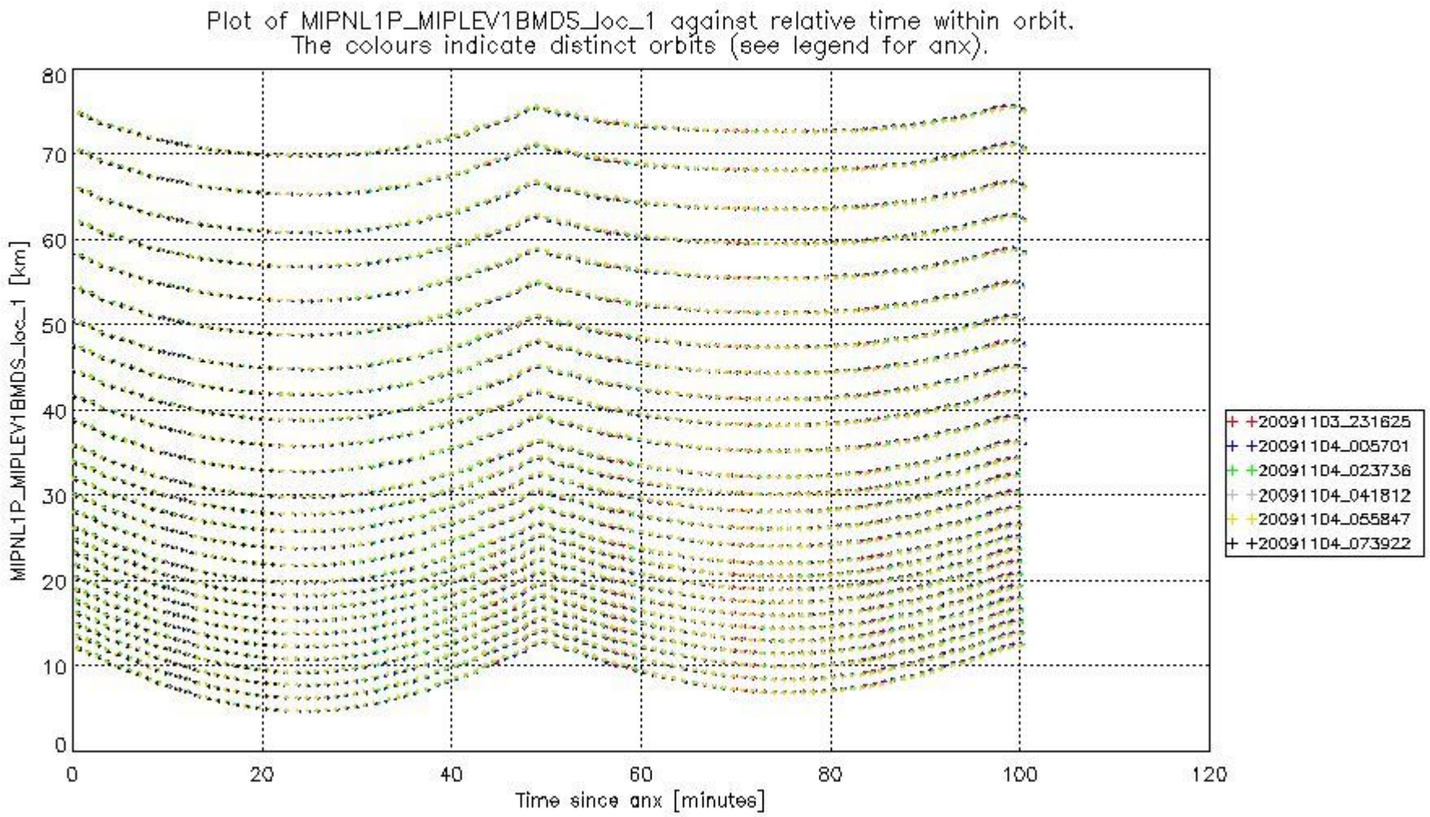

Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 3 of 5
032939 033039 033140 033240 033341 033442 033611 033712 033813 033913
034014 034114 034215 034316 034416 034517 034617 034718 034818 034948
035049 035149 035250 035351 035451 035552 035652 035753 035854 035954
040055 040155 040325 040426 040526 040627 040728 040828 040929 041029
041130 041230 041331 041432 041532 041702 041803 041903 042004 042104
042205 042306 042406 042507 042607 042708 042808 042909 043039 043139
043240 043341 043441 043542 043642 043743 043844 043944 044045 045552
045653 045753 045854 045955 050055 050156 050256 050357 050457 050558
050659 050759 050929 051030 051130 051231 051331 051432 051533 051633
051734 051834 051935 052036 052136 052306 052407 052507 052608 052708
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)] 4 of 5
[]
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$
052809 052909 053010 053111 053211 053312 053412 053513 053643 053743
053844 053945 054045 054146 054246 054347 054448 054548 054649 054749
054850 055020 055120 055221 055321 055422 055523 055623 055724 055824
055925 060026 060126 060227 060357 060457 060558 060658 060759 060900
061000 061101 061201 061302 061402 061503 061604 061733 061834 061935
062035 062136 062236 062337 062438 062538 062639 062739 062840 062941
063110 063211 063312 063412 063513 063613 063714 063814 063915 064016
064116 064217 064317 064447 064548 064648 064749 064850 064950 065051
065151 065252 065353 065453 065554 065654 065824 065925 070025 070126
070226 070327 070428 070528 070629 070729 070830 070931 071031 071201
0 30 60 90 120 150 180 210 240 270 300
0 100 200 300 400 500 600 700 800 900 1000

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
005657 091104
023751 091104
041802 091104
055856 091104
073929 091104
092002 091104
110035 091104
124107 091104
142140 091104
160213 091104
174246 091104
192340 091104
210352 091104
224445 091104
Time [HHMMSS, YYMMDD]



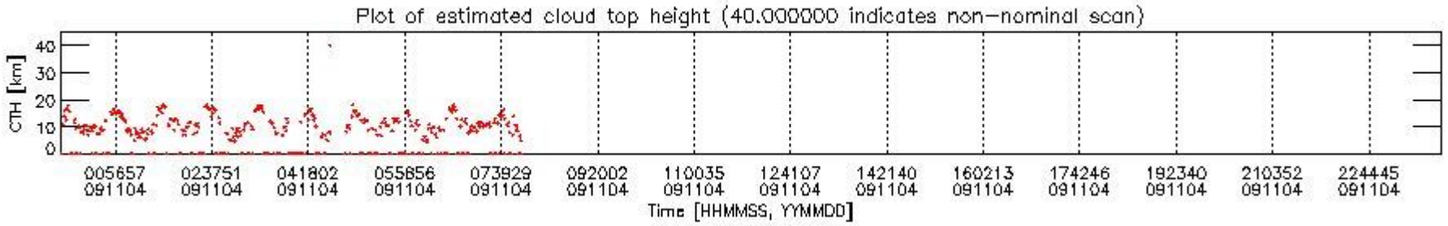
1.3.2 Cloud top height

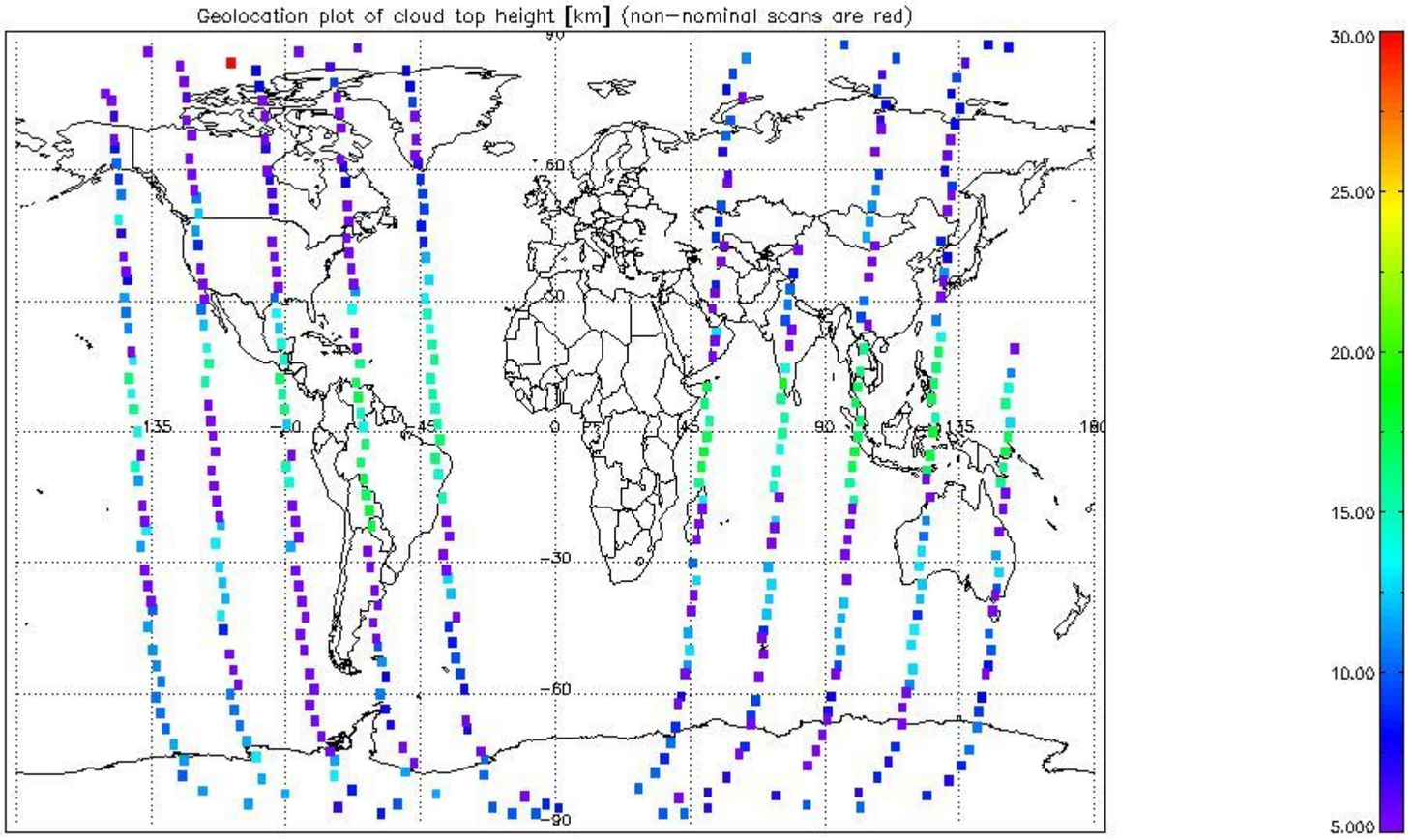
The following plots show an estimation of cloud top height, based on the ratio of two microwindows. Reference: R. Spang, J.J. Remedios and M.P. Barkley, "Colour indices for the detection and differentiation of cloud types in infra-red limb emission spectra", Adv Space Res, 33:1041-1047, (2004)

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

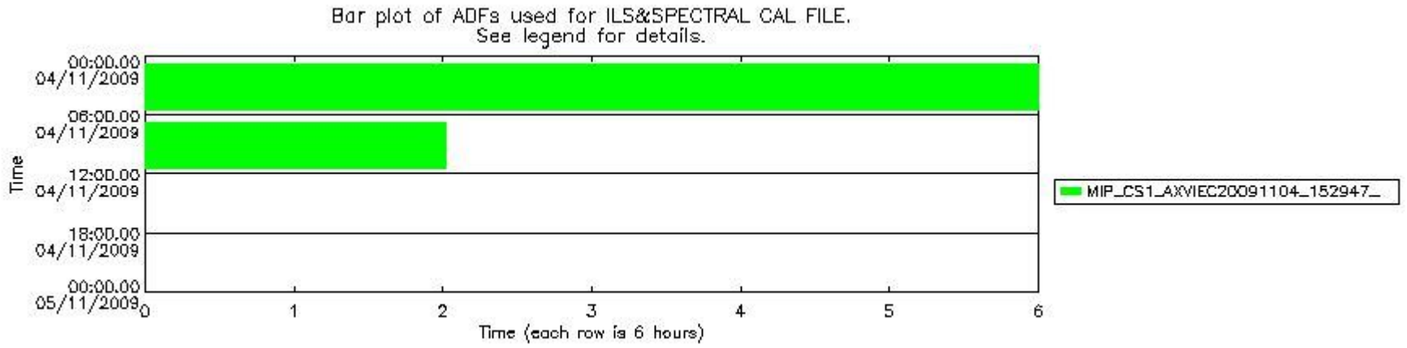


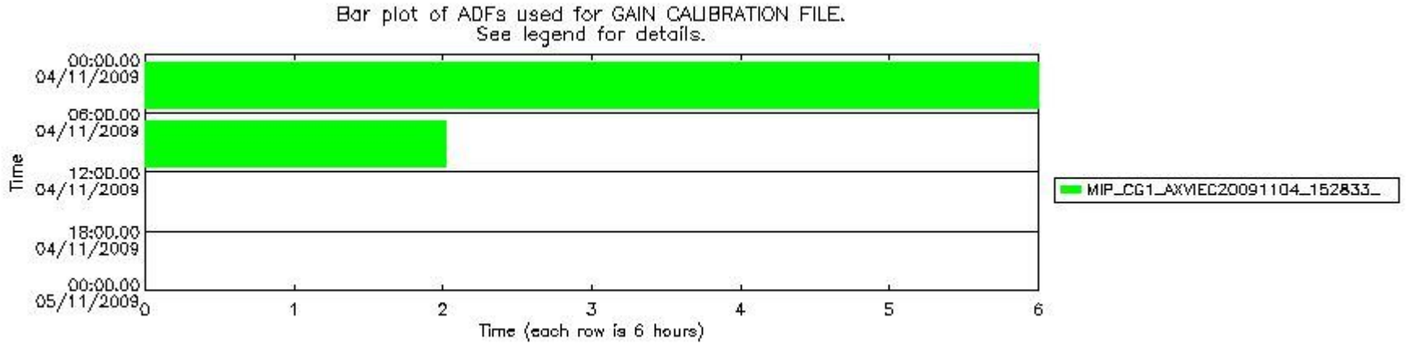


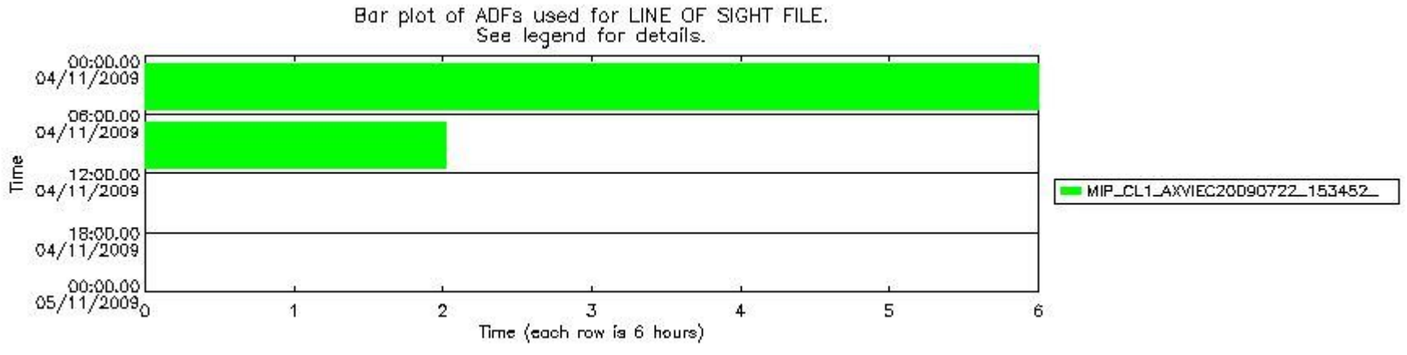
1.4 ADF monitoring

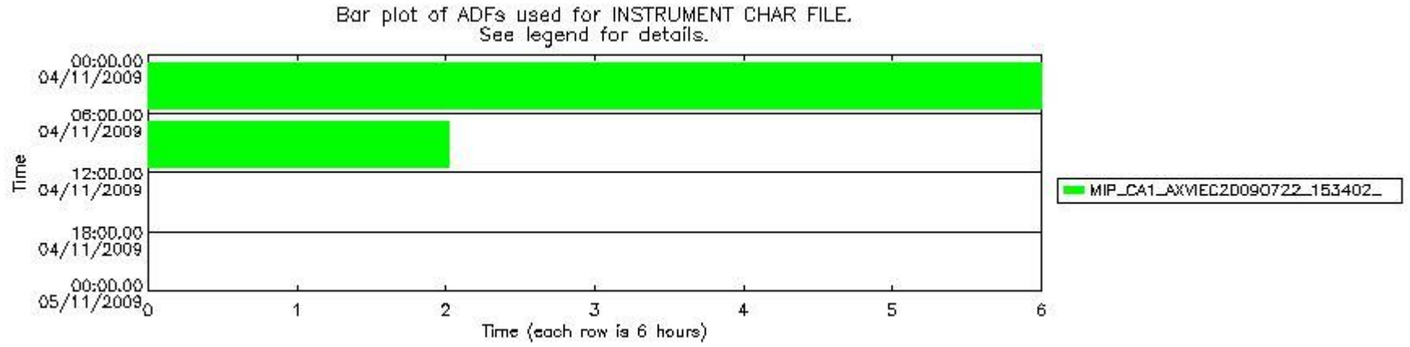
Number	ADF
0	AUX_FRO_AXVPDS20091107_010112_20091103_221000_20091106_005000
1	MIP_CA1_AXVIEC20090722_153402_20040809_000000_20140722_000000
2	MIP_CG1_AXVIEC20091104_152833_20091031_000000_20141031_000000
3	MIP_CL1_AXVIEC20090722_153452_20050420_095747_20140722_000000
4	MIP_CO1_AXVIEC20091104_152911_20091031_000000_20141031_000000
5	MIP_CS1_AXVIEC20091104_152947_20091031_000000_20141031_000000
6	MIP_MW1_AXVIEC20090722_153553_20040809_000000_20140722_000000
7	MIP_PS1_AXVIEC20090722_153722_20040809_000000_20140722_000000

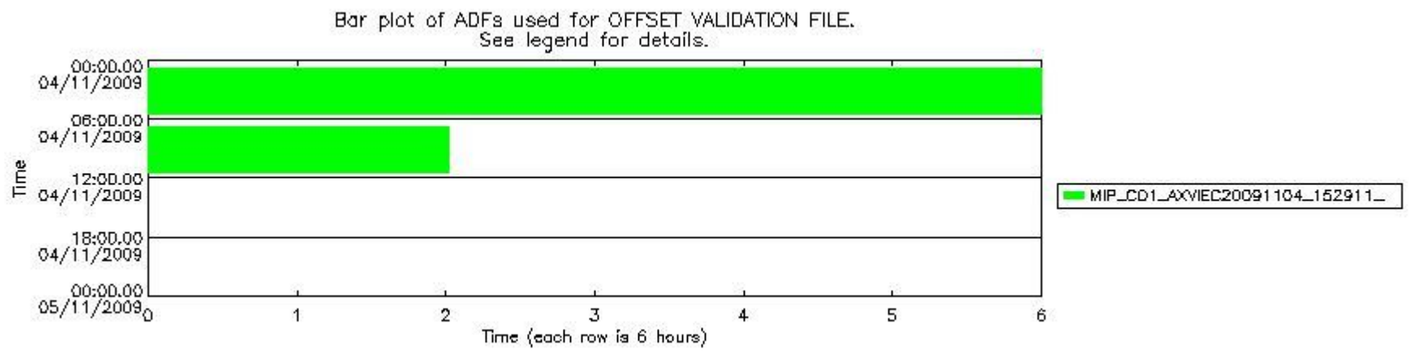
Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL__1PPDPA20091103_230857_000060152084_00016_40150_1182.N1	5	2	3	1	4	6	7	0
1	MIP_NL__1PPDPA20091104_004918_000060452084_00017_40151_1187.N1	5	2	3	1	4	6	7	0
2	MIP_NL__1PPDPA20091104_023008_000060152084_00018_40152_1188.N1	5	2	3	1	4	6	7	0
3	MIP_NL__1PPDPA20091104_041029_000060452084_00019_40153_1186.N1	5	2	3	1	4	6	7	0
4	MIP_NL__1PPDPA20091104_055120_000060152084_00020_40154_1189.N1	5	2	3	1	4	6	7	0
5	MIP_NL__1PPDPA20091104_073141_000017492084_00021_40155_1191.N1	5	2	3	1	4	6	7	0

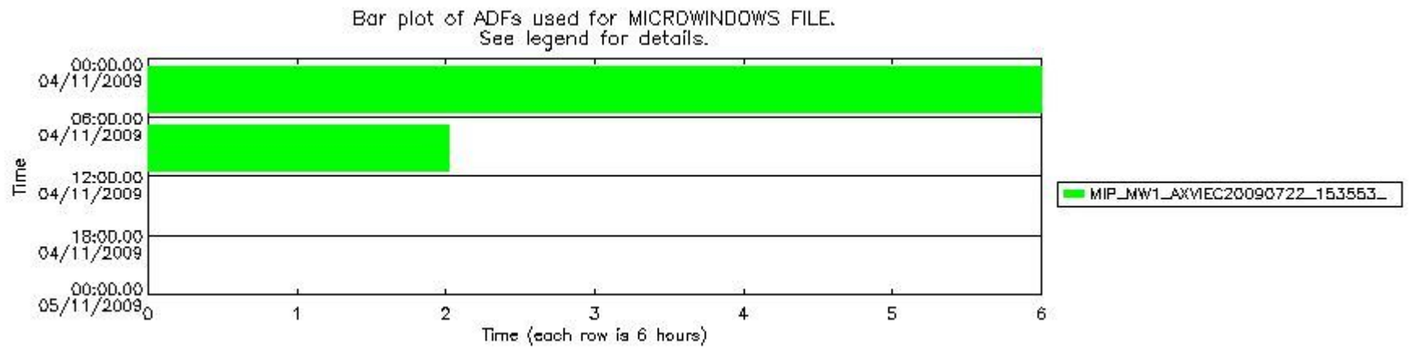


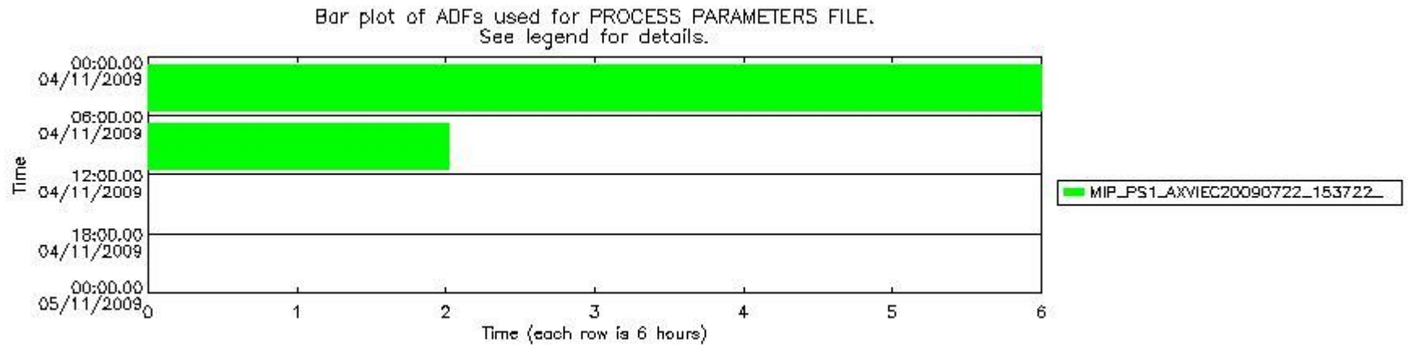


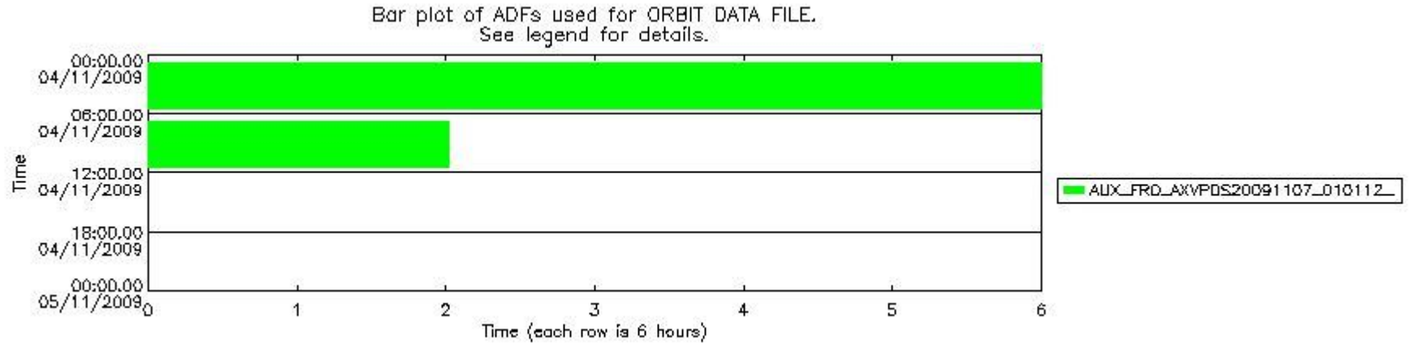


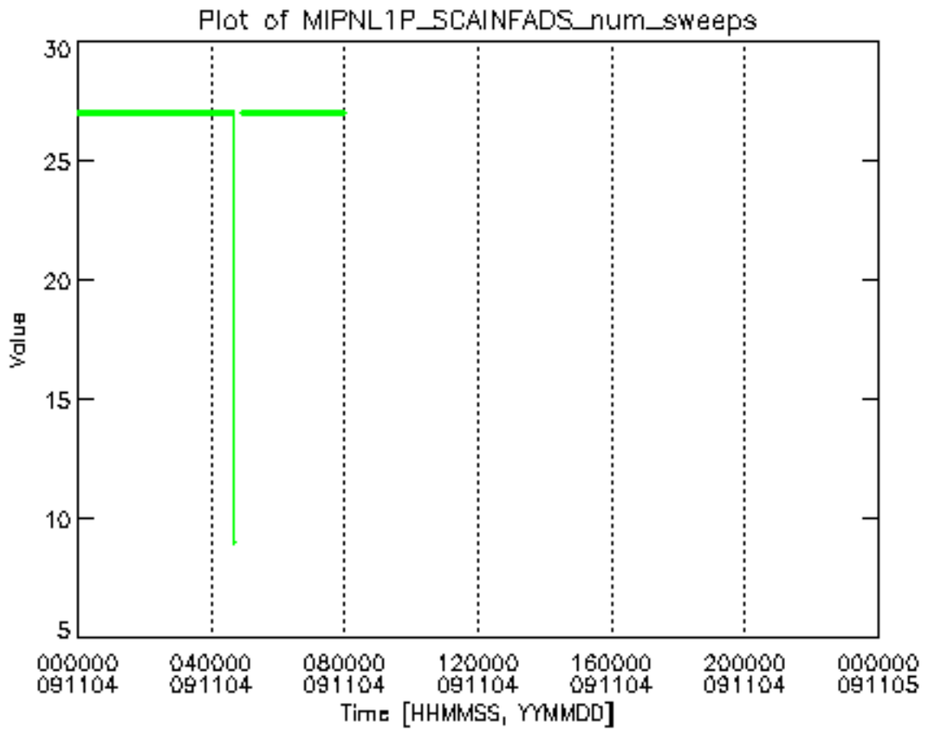

Bar plot of ADFs used for INSTRUMENT CHAR FILE.
See legend for details.
Time
00:00.00 04/11/2009
06:00.00 04/11/2009
12:00.00 04/11/2009
18:00.00 04/11/2009
00:00.00 05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CA1_AXVIEC20090722_153402_

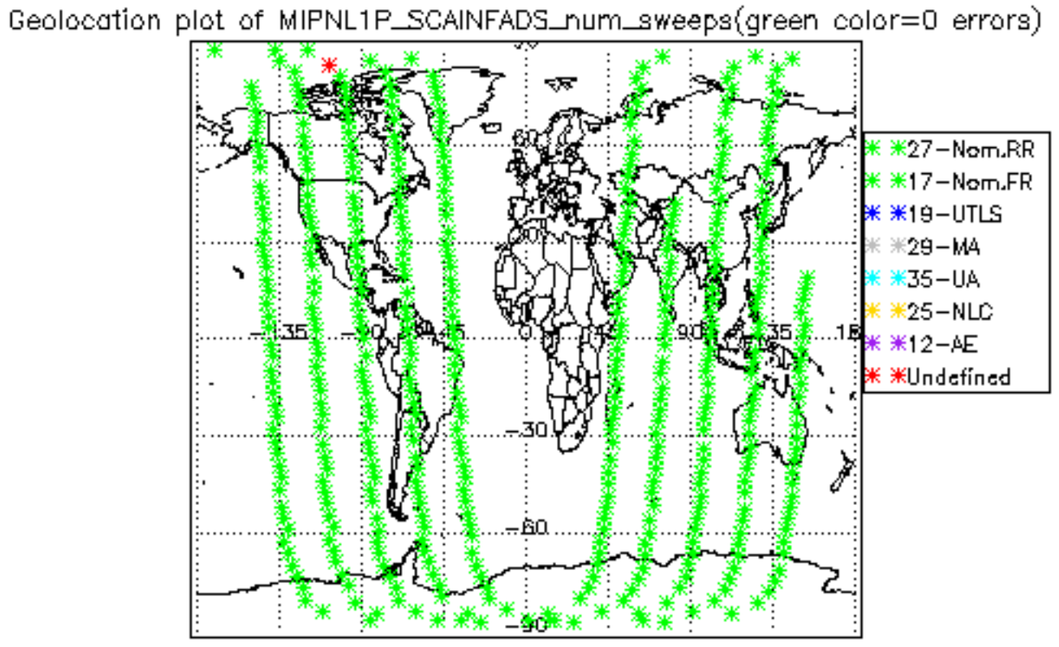

Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.
Time
00:00.00 04/11/2009
06:00.00 04/11/2009
12:00.00 04/11/2009
18:00.00 04/11/2009
00:00.00 05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CO1_AXVIEC20091104_152911_

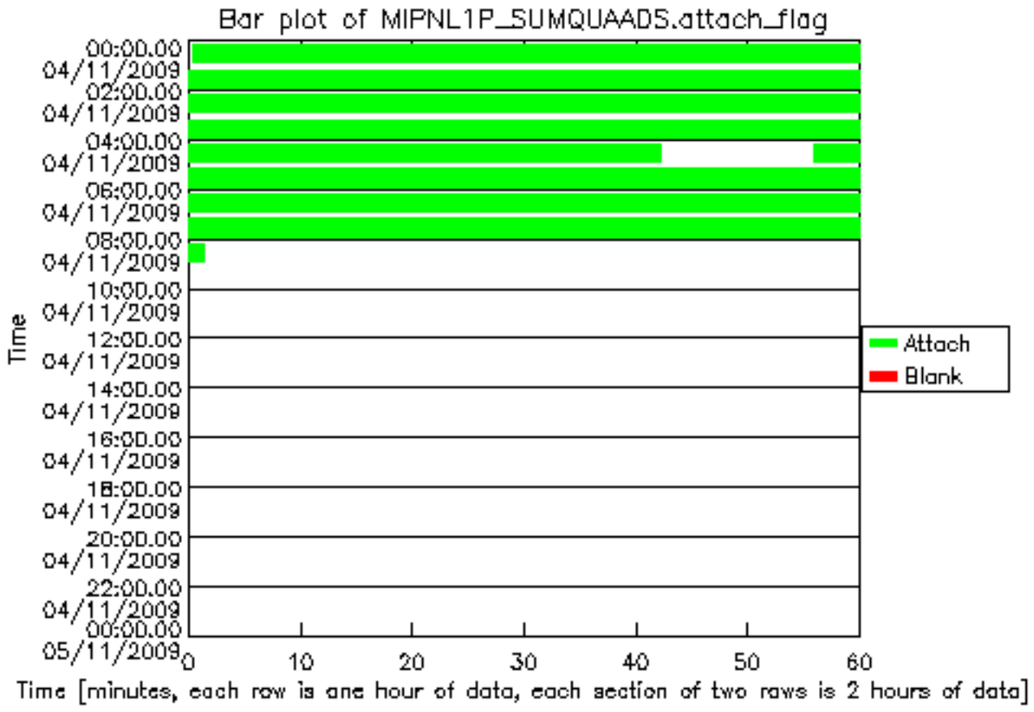

Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.
Time
00:00.00 04/11/2009
06:00.00 04/11/2009
12:00.00 04/11/2009
18:00.00 04/11/2009
00:00.00 05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_MW1_AXVIEC20090722_153553_

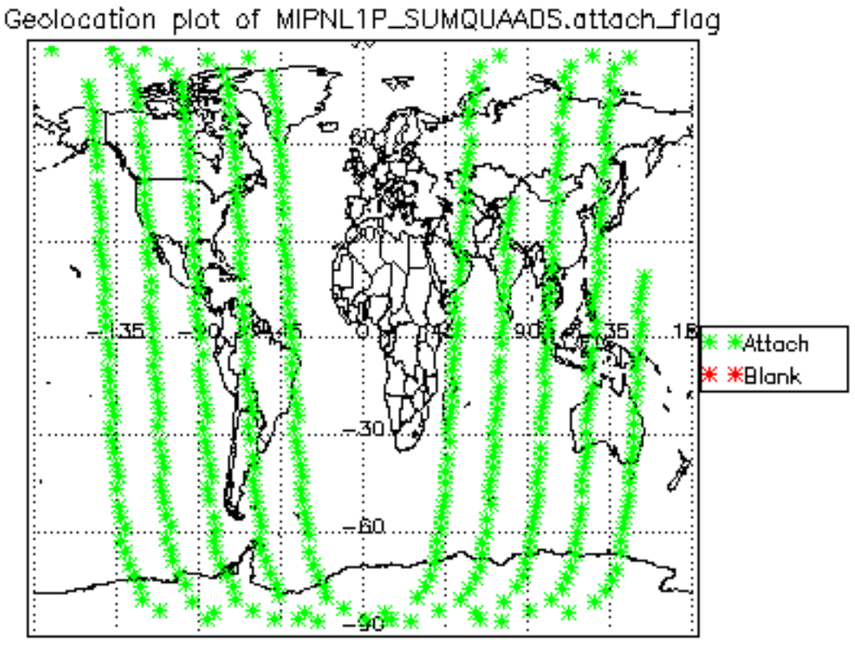

Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.
Time
00:00.00 04/11/2009
06:00.00 04/11/2009
12:00.00 04/11/2009
18:00.00 04/11/2009
00:00.00 05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_PS1_AXVIEC20090722_153722_

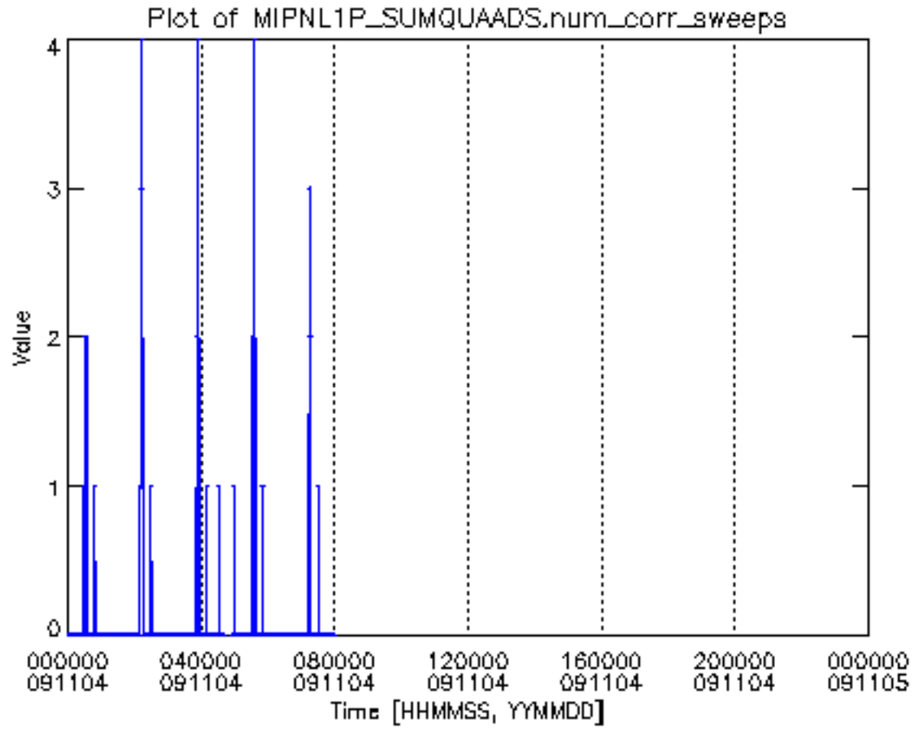

Bar plot of ADFs used for ORBIT DATA FILE.
See legend for details.
Time
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FRO_AXVPDS20091107_010112_

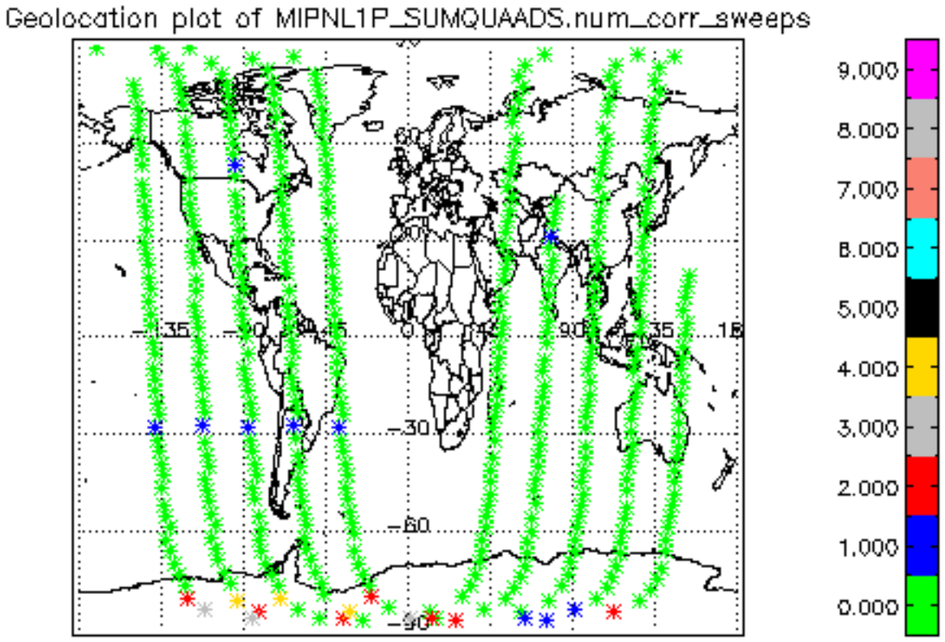

Plot of MIPNL1P_SCAINFADS_num_sweeps
Value
30
25
20
15
10
5
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

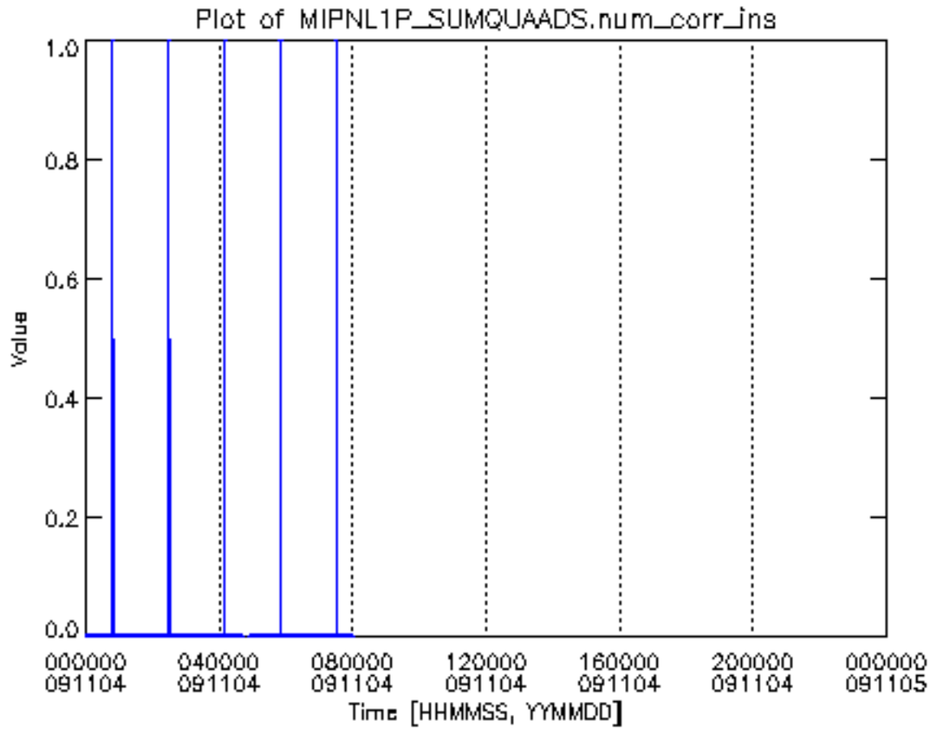

Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)
27-Nom.RR
17-Nom.FR
19-UTLS
29-MA
35-UA
25-NLC
12-AE
Undefined
-35
-30
-60
-90

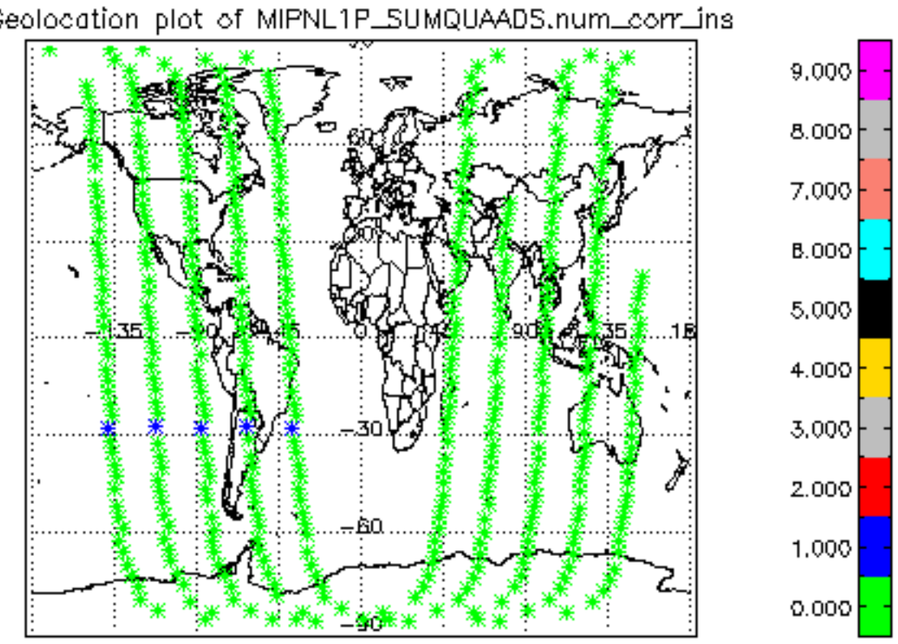

Bar plot of MIPNL1P_SUMQUAADS.attach_flag
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
0
10
20
30
40
50
60
Attach
Blank
Time [minutes, each row is one hour of data, each section of two raws is 2 hours of data]

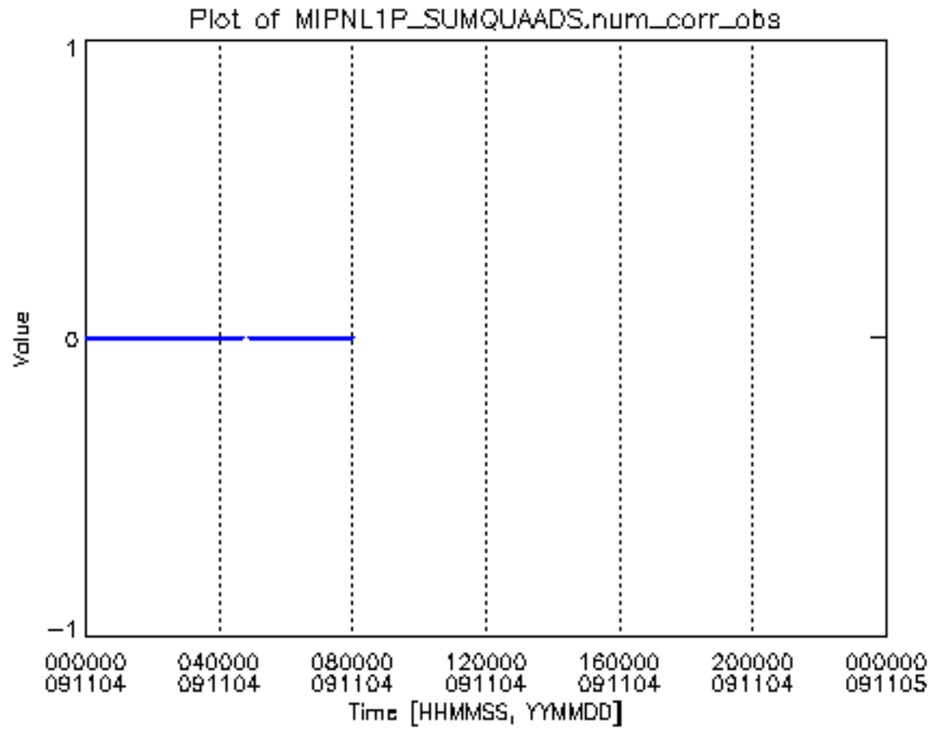

Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag
-35
-0
15
0
90
135
180
-30
-60
-90
Attach
Blank

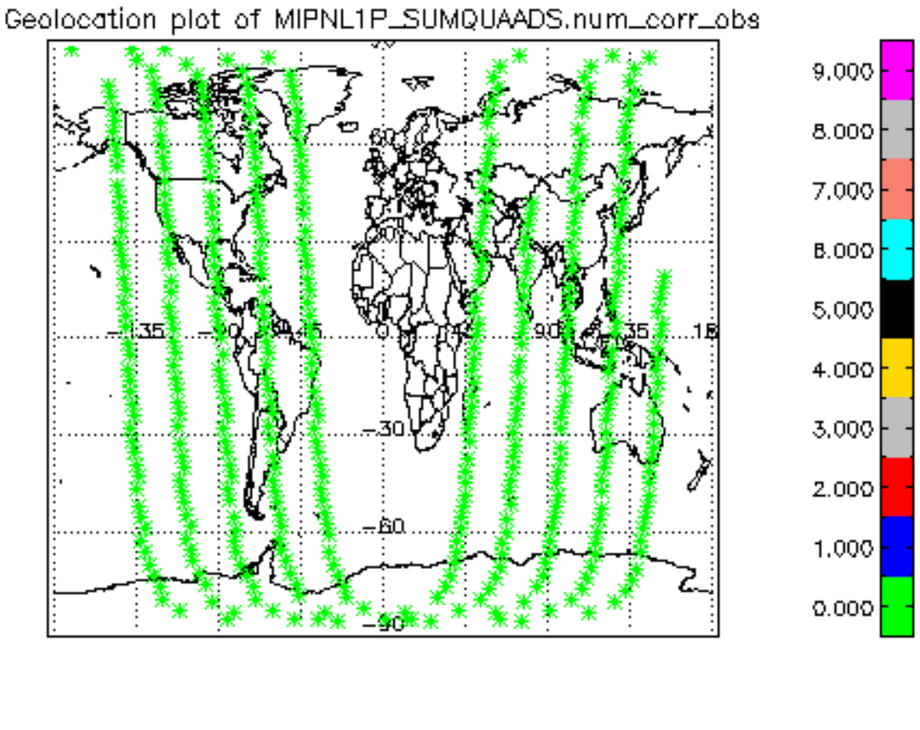

Plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
Value
4
3
2
1
0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

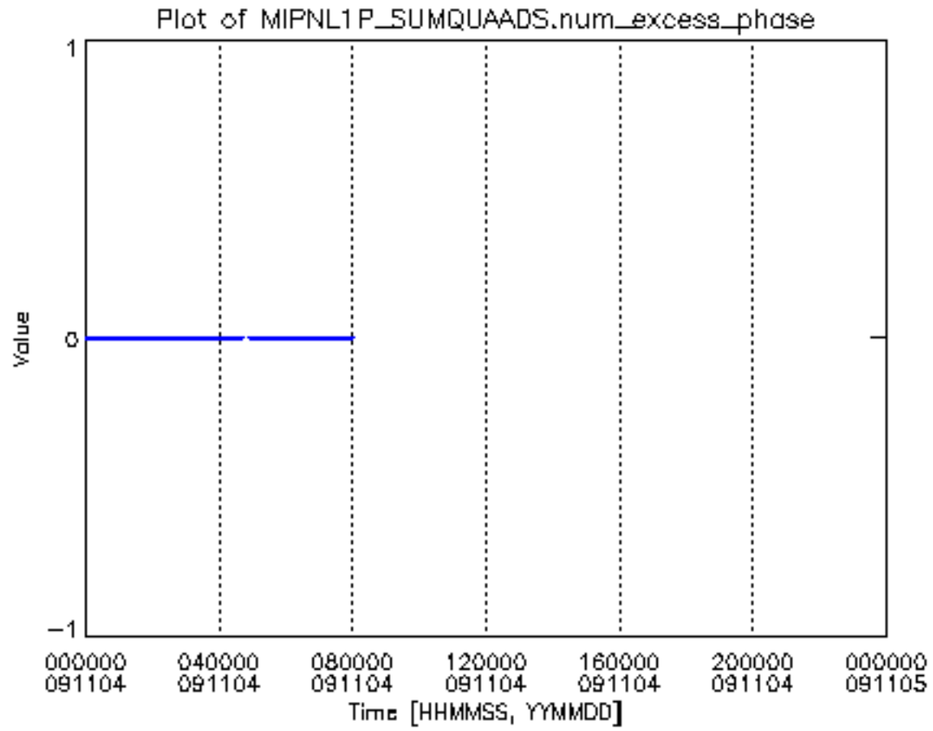

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps
-30
-60
-90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

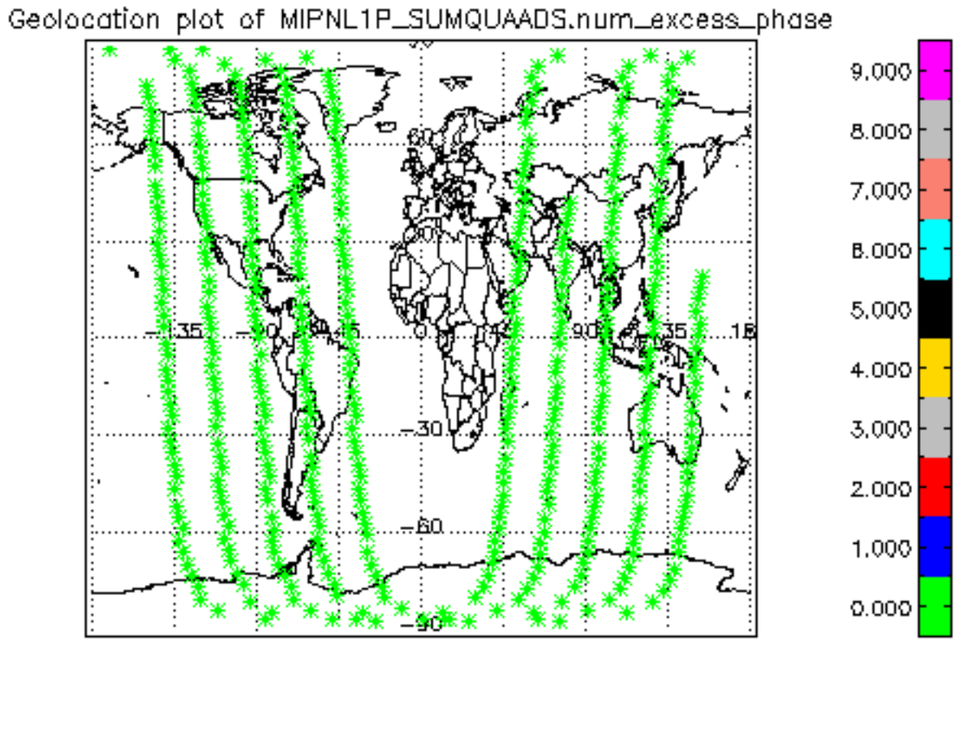

Plot of MIPNL1P_SUMQUAADS.num_corr_ins
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

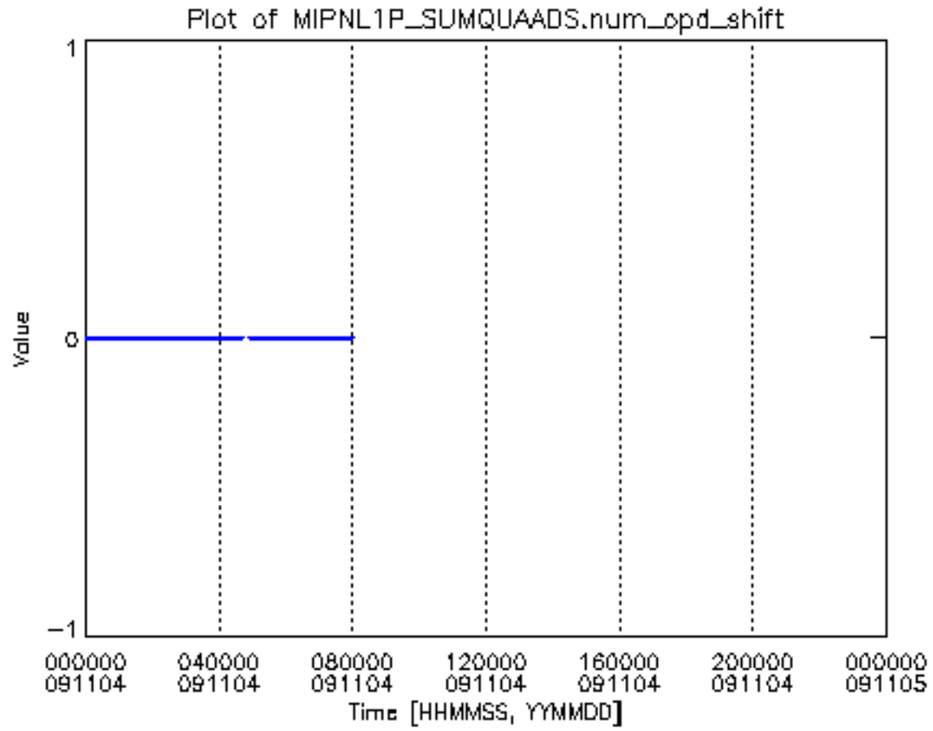

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins
-30
-60
-90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

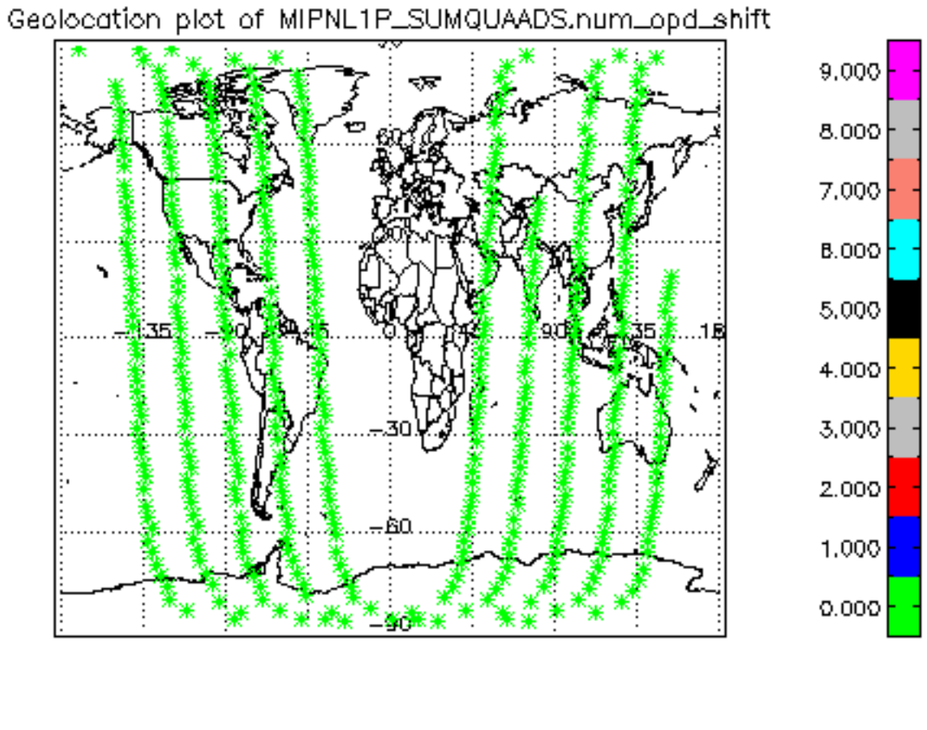

Plot of MIPNL1P_SUMQUAADS.num_corr_obs
1
0
−1
Value
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

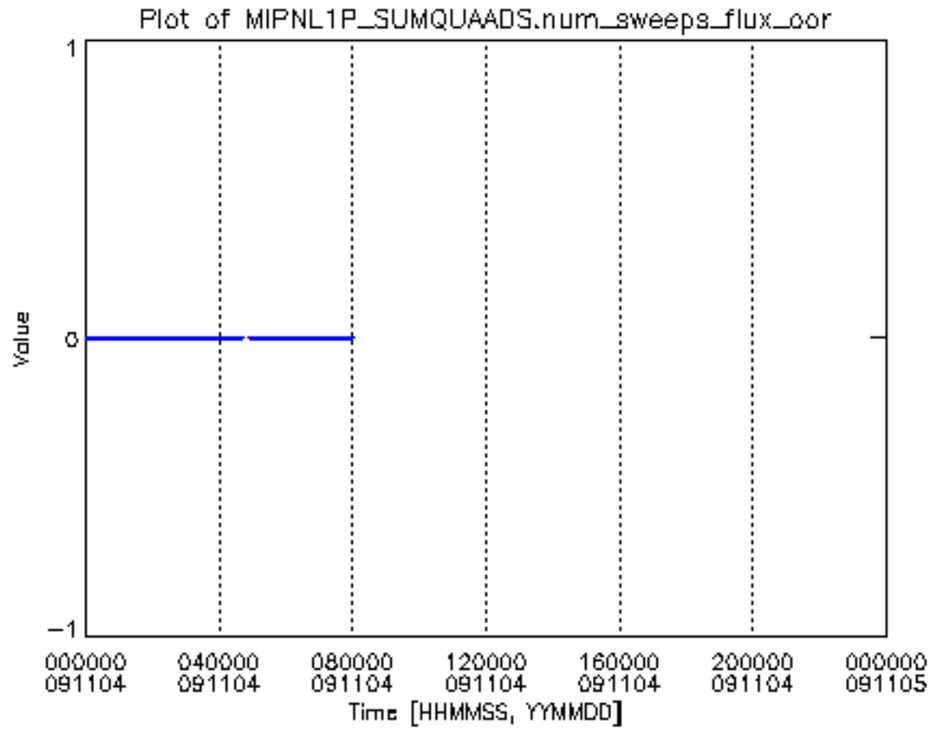

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs
−35
−90
−145
0
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

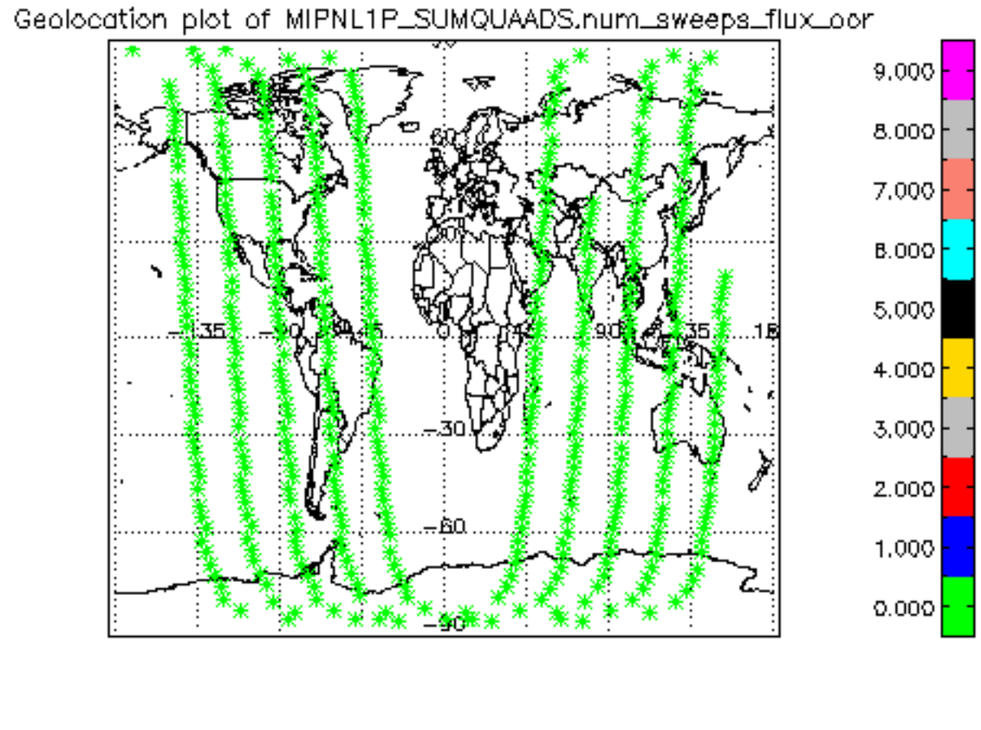

Plot of MIPNL1P_SUMQUAADS.num_excess_phase
1
0
−1
Value
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

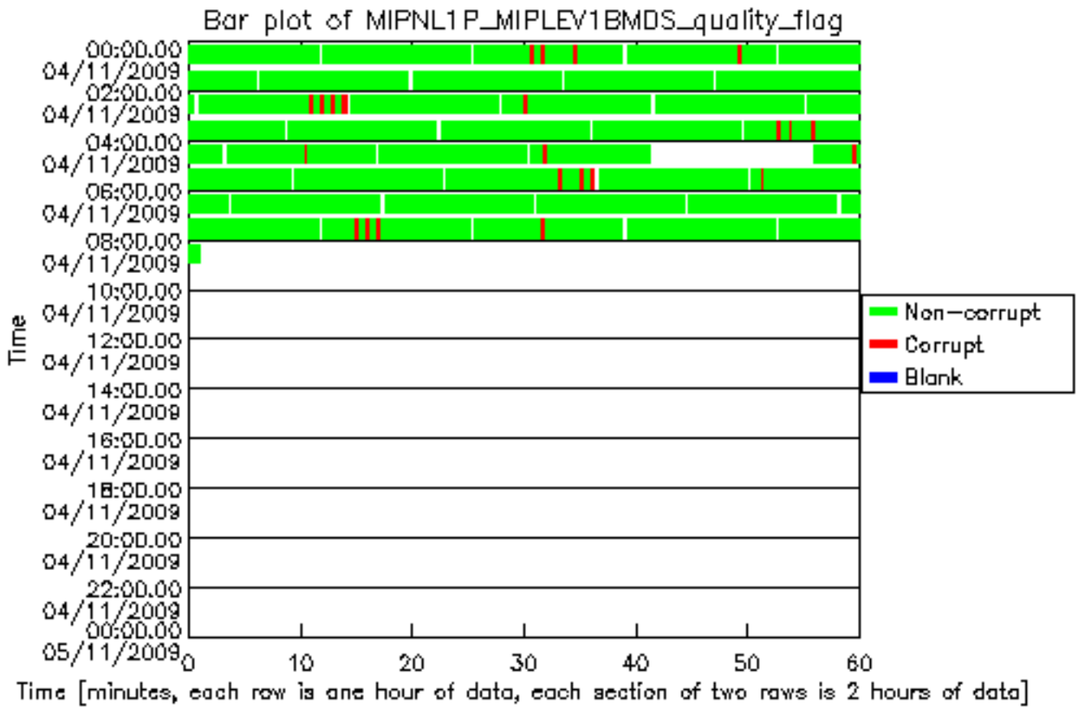

Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase
35
0
45
0
90
135
180
−30
−60
−90
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

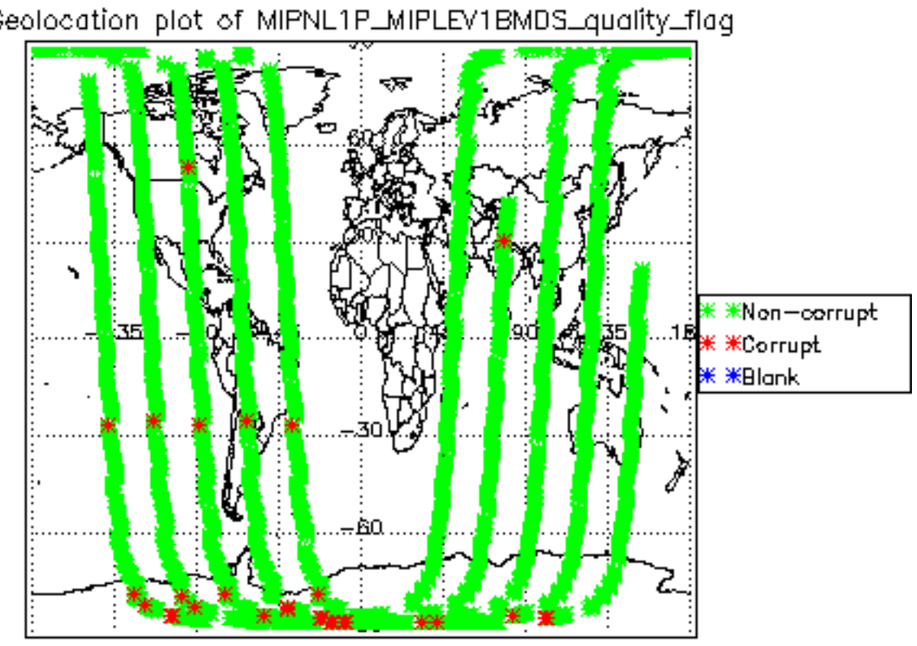

Plot of MIPNL1P_SUMQUAADS.num_opd_shift
Value
1
0
−1
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

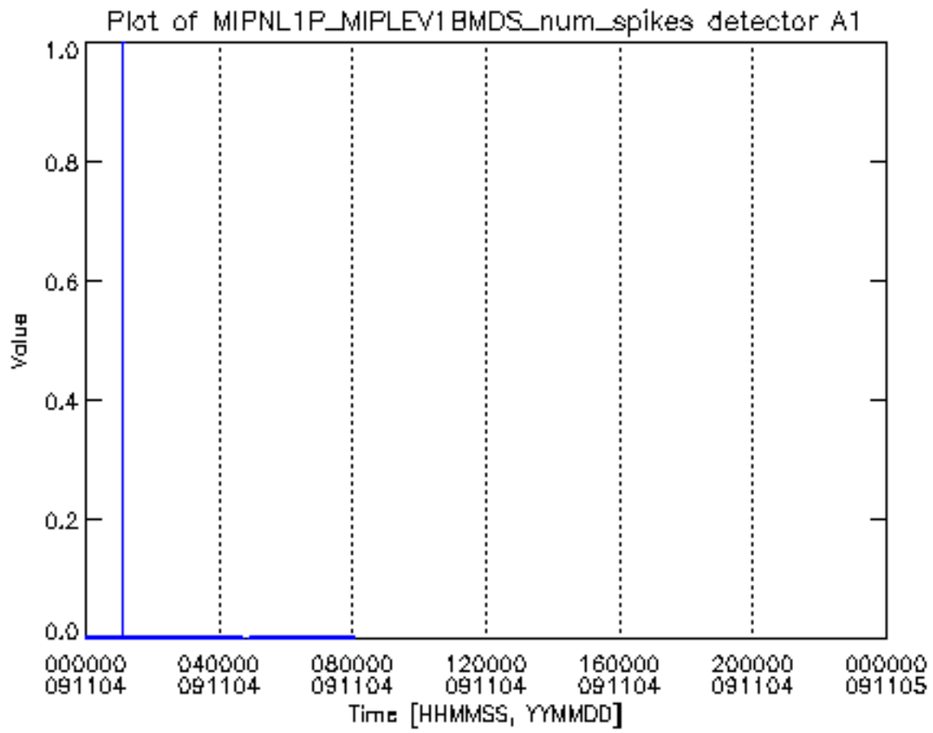

Geolocation plot of MIPNL1P_SUMQUAADS.num_opd_shift
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

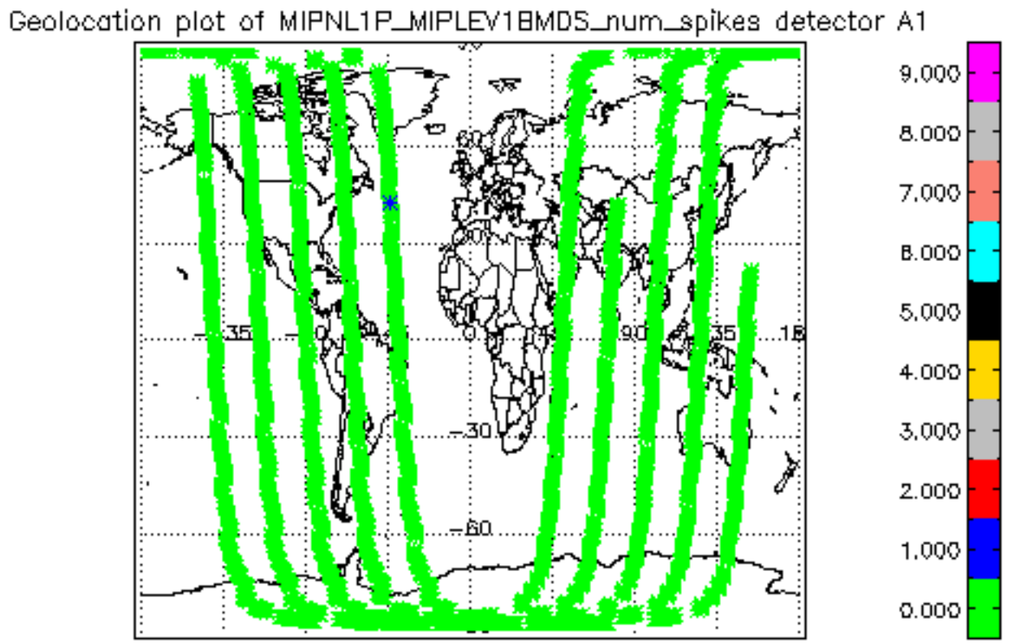

Plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor
Value
1
0
−1
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

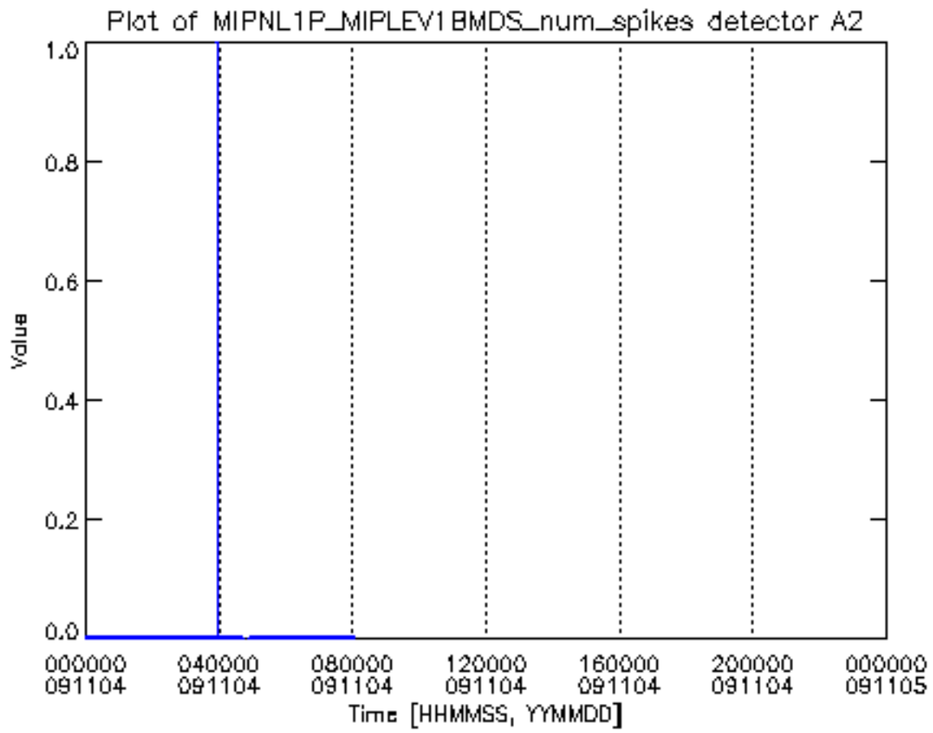

Geolocation plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

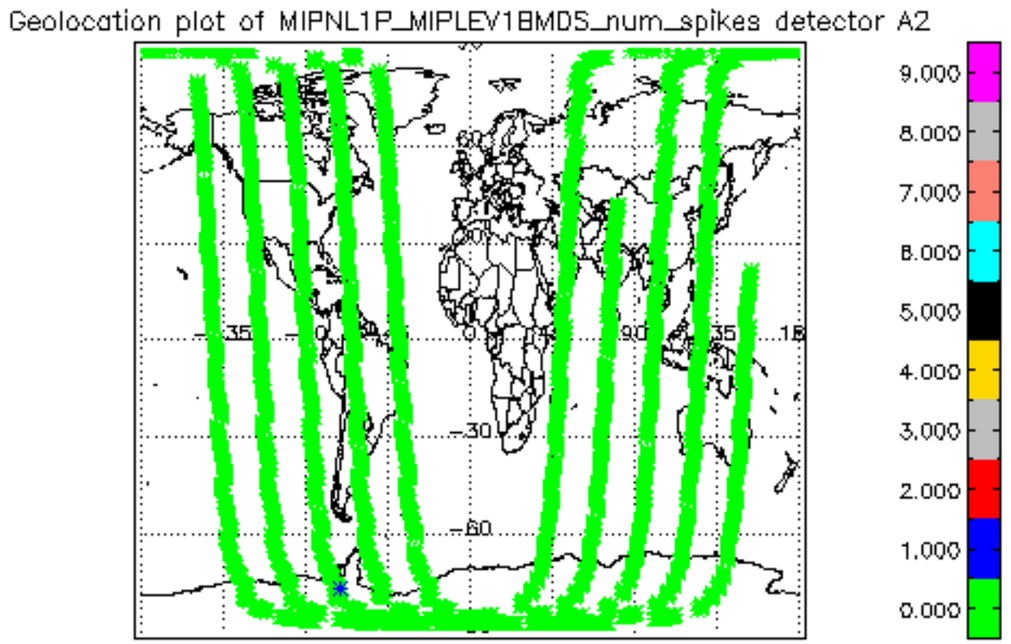

Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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

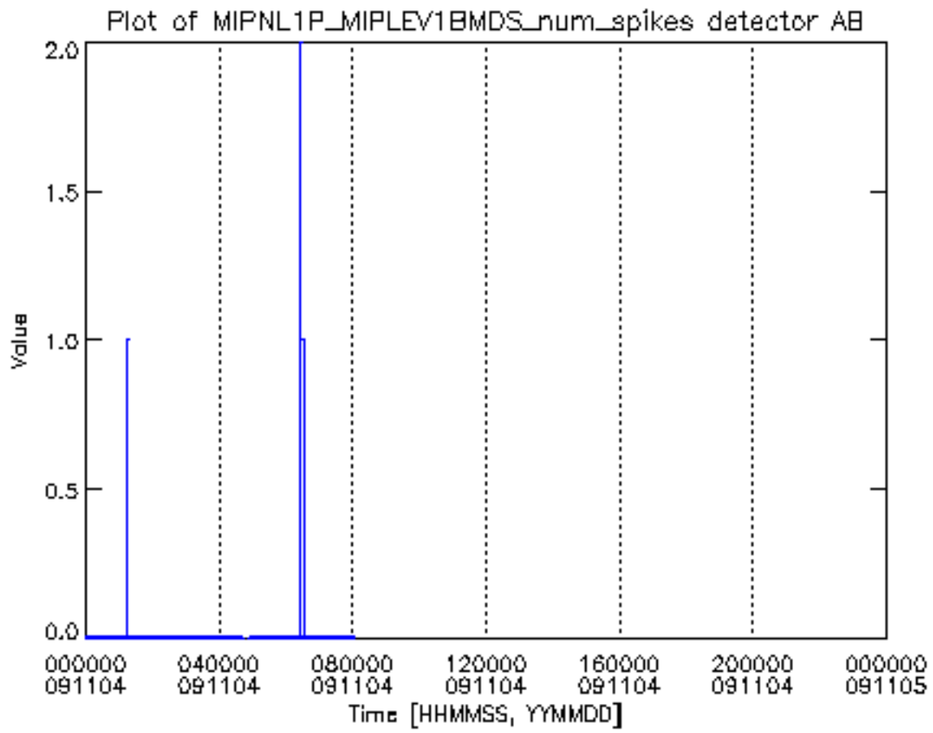

Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag
-35
0
90
135
180
-30
-60
Non-corrupt
Corrupt
Blank

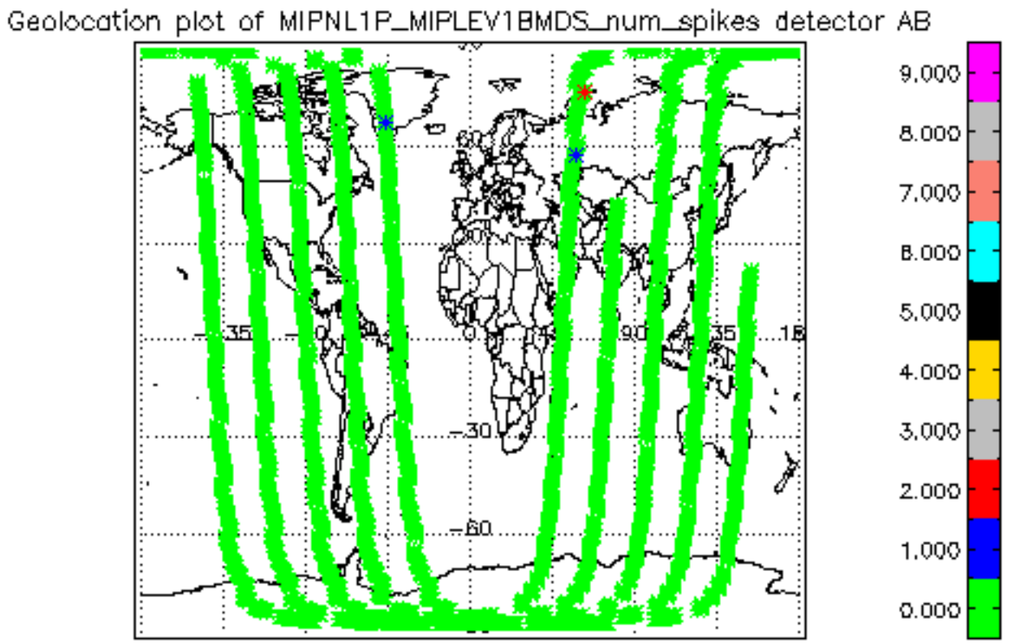

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

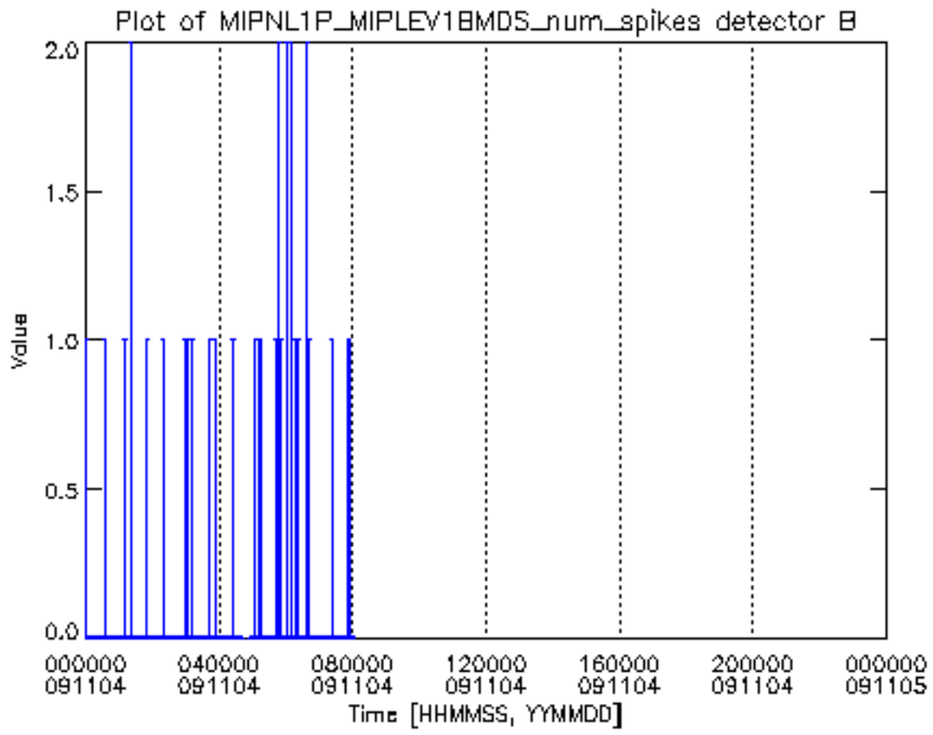

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
-35
0
90
35
-30
-60

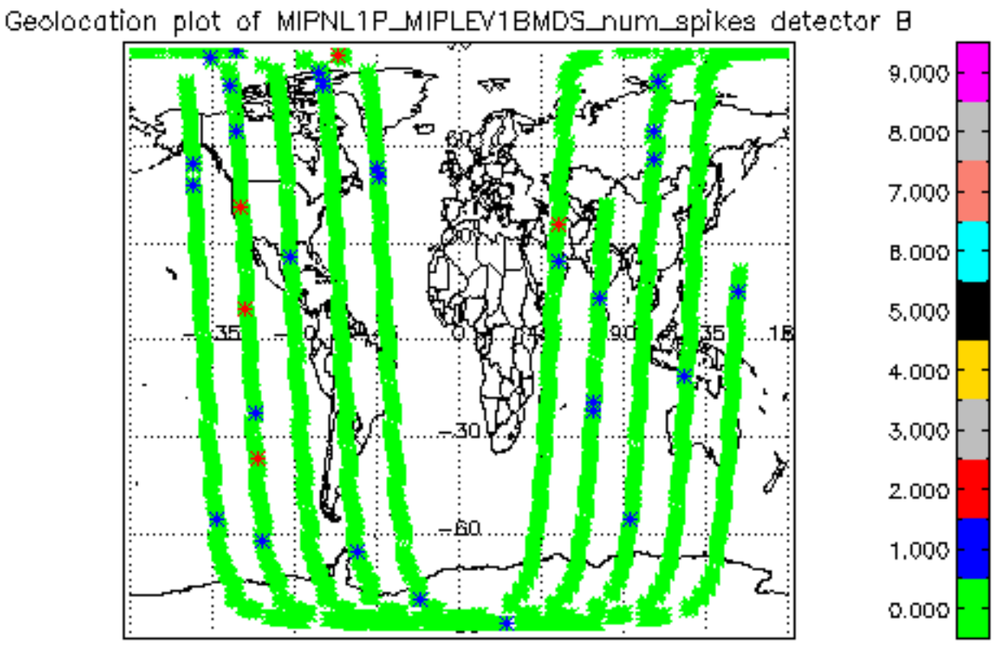

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
Value
1.0
0.8
0.6
0.4
0.2
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

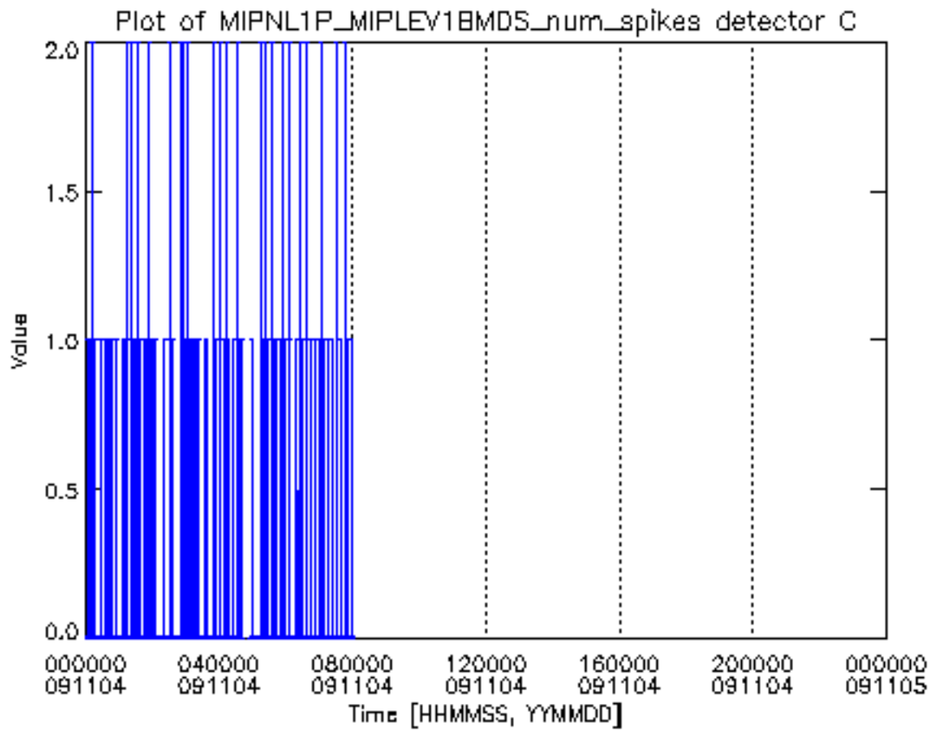

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
35
0
90
35
-30
-60

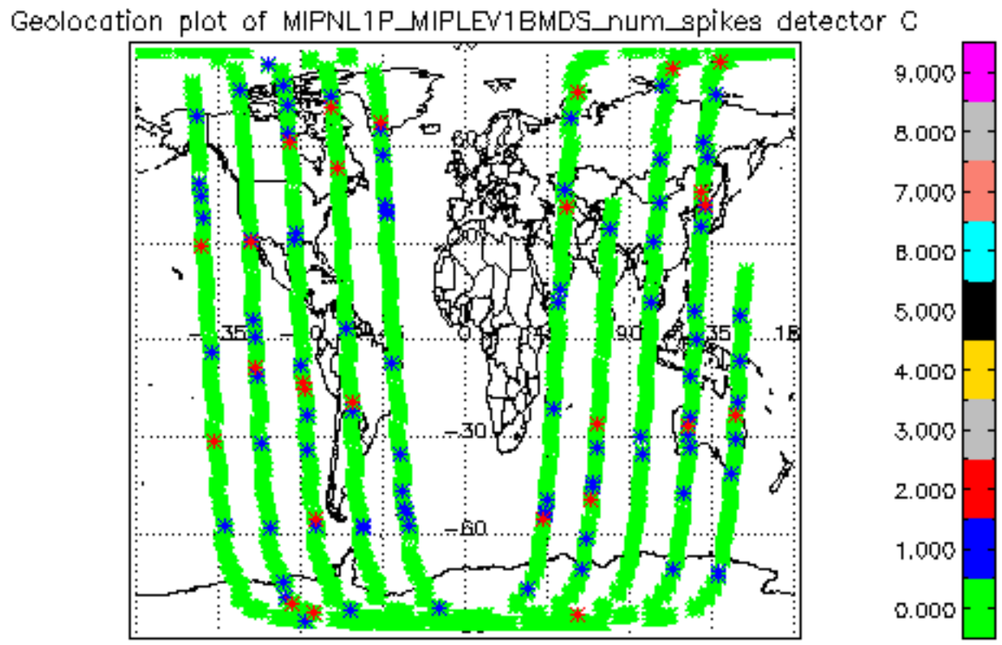

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

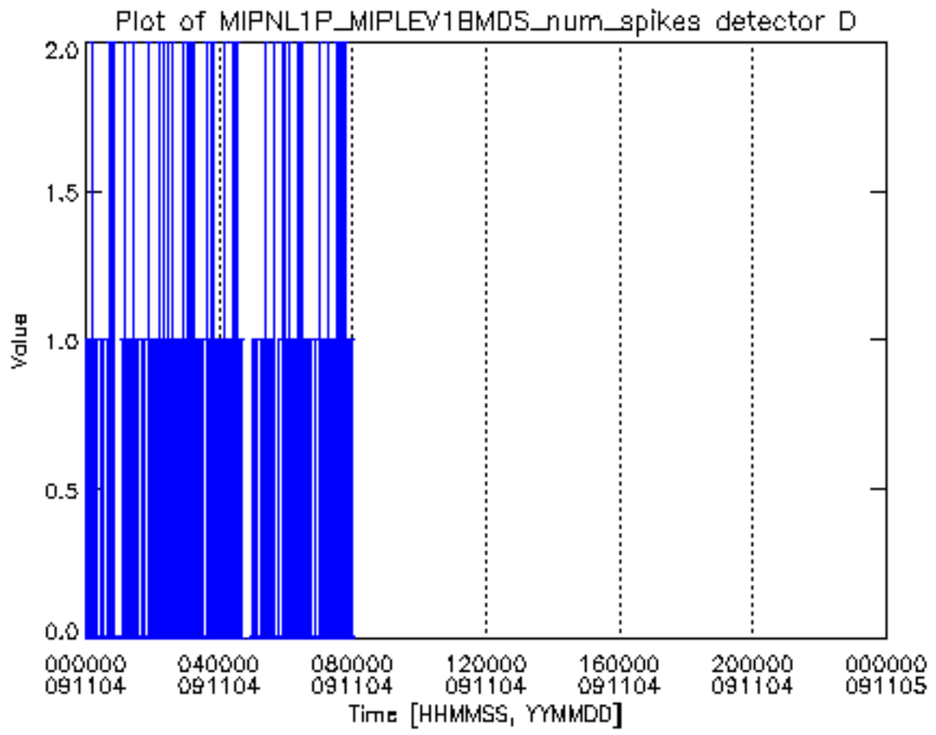

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

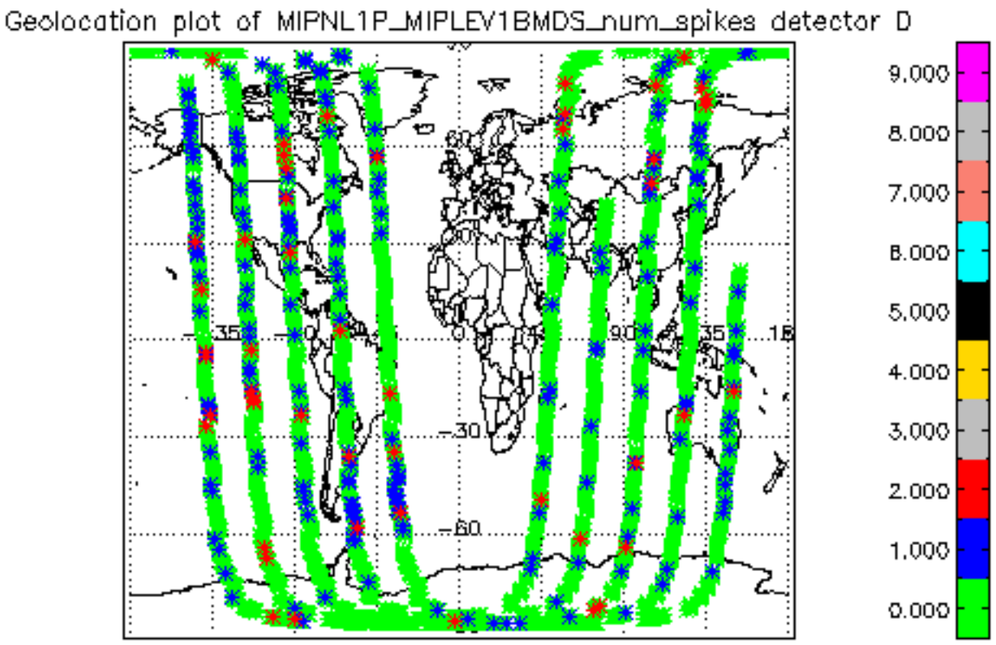

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
2.0
1.5
1.0
0.5
0.0
Value
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

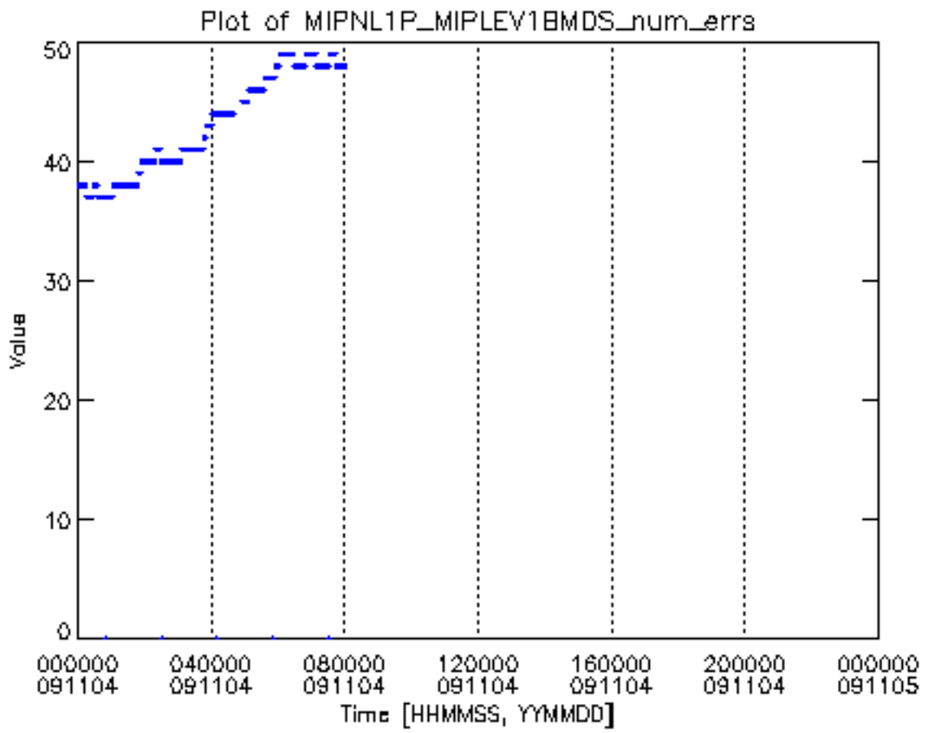

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
-30
-60

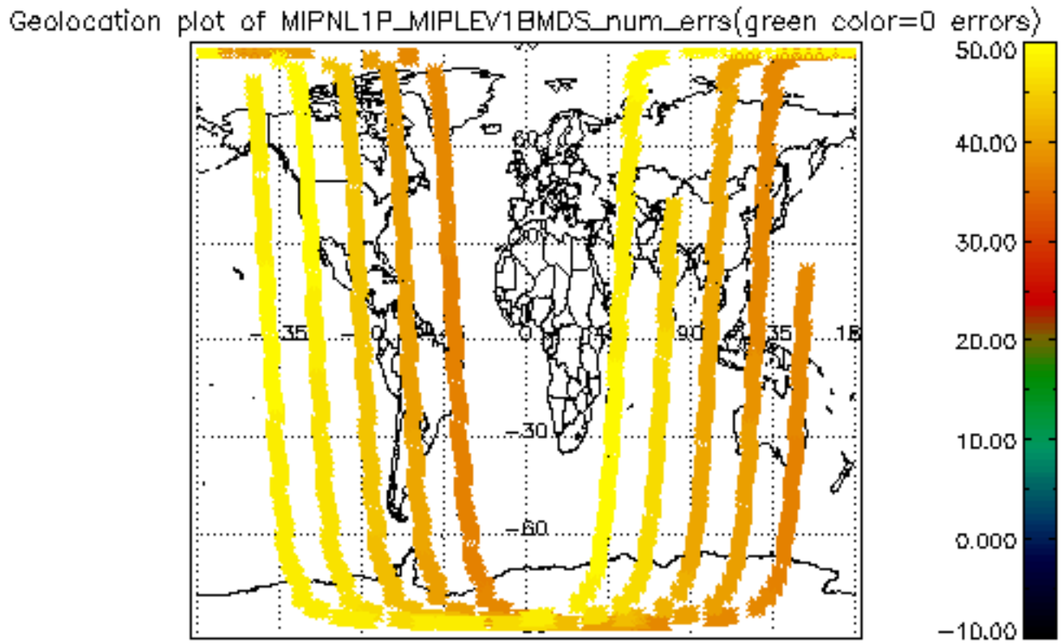

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
2.0
1.5
1.0
0.5
0.0
Value
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

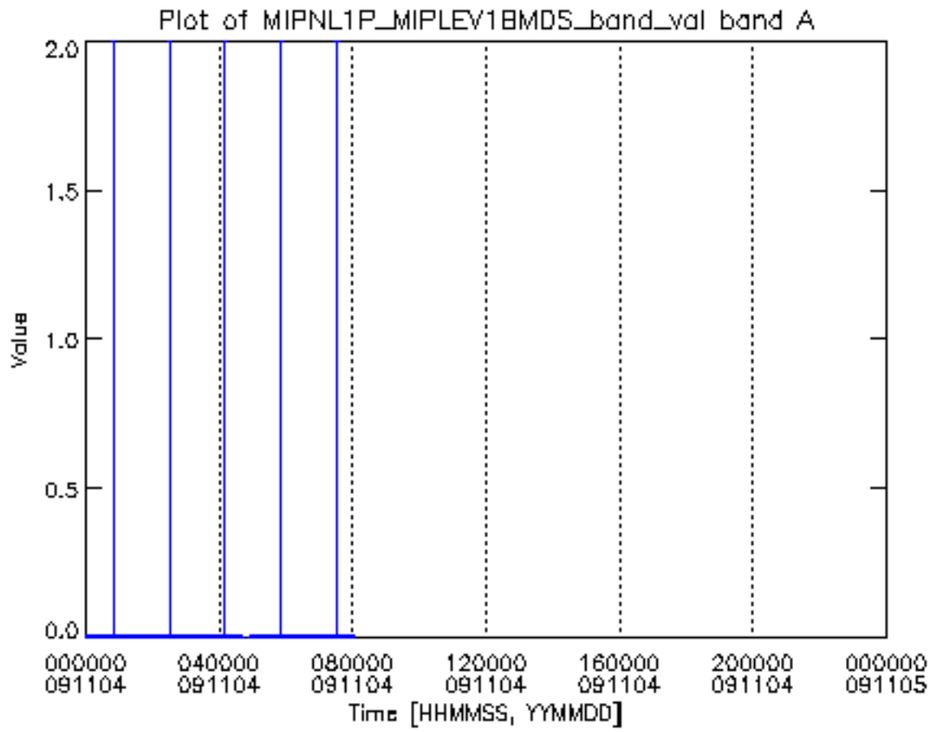

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000

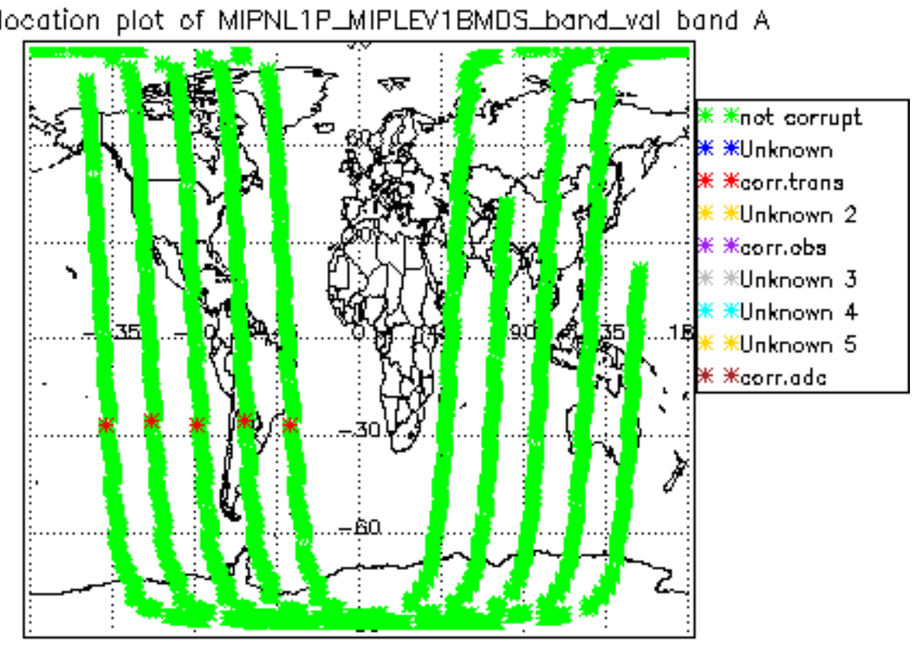

Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
2.0
1.5
1.0
0.5
0.0
Value
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

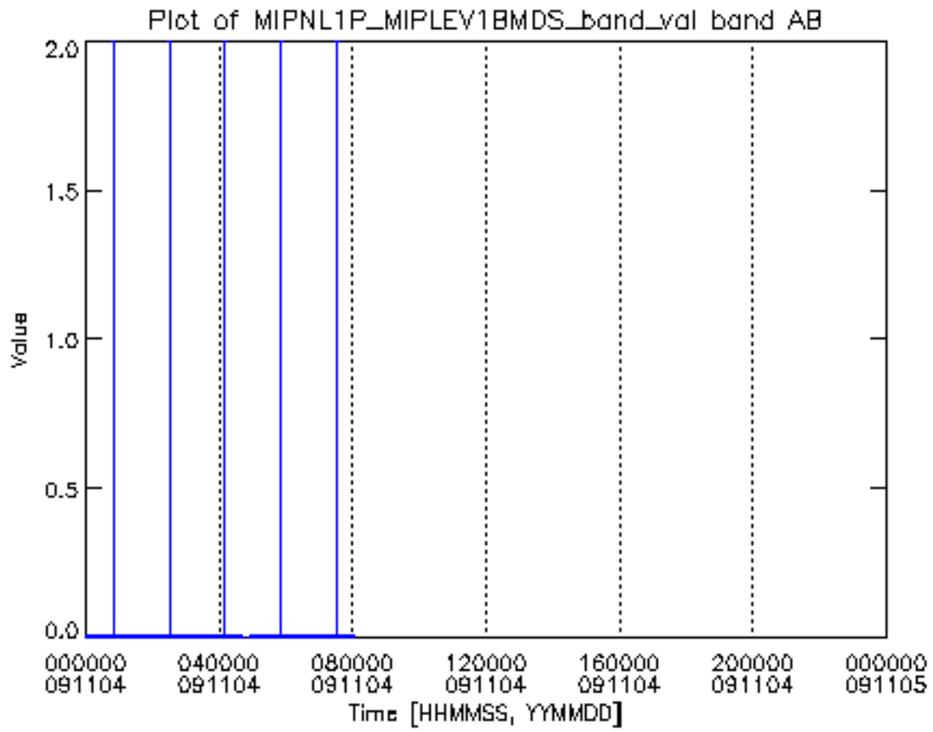

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
-30
-60

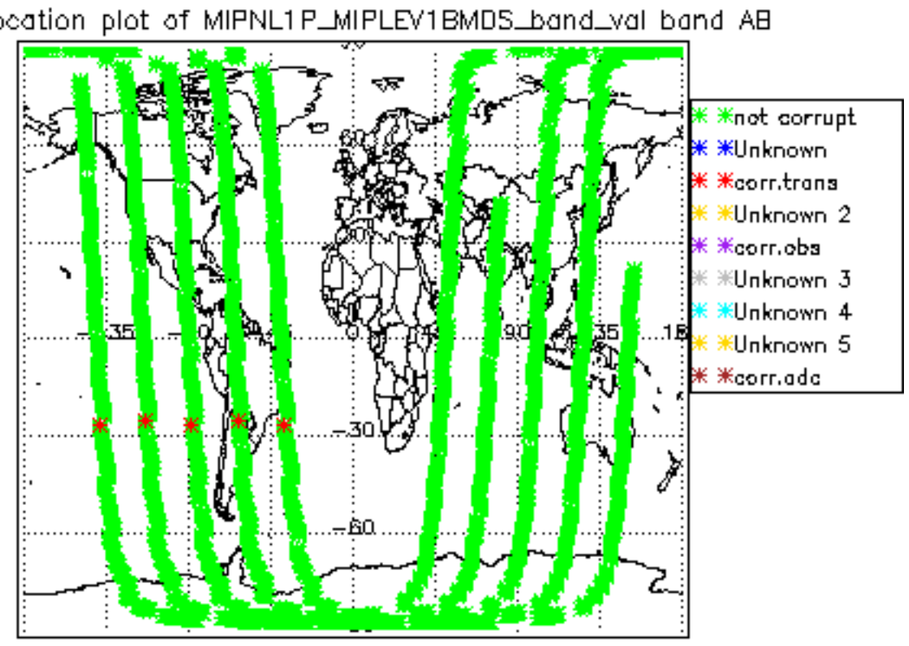

Plot of MIPNL1P_MIPLEV1BMDS_num_errs
Value
50
40
30
20
10
0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

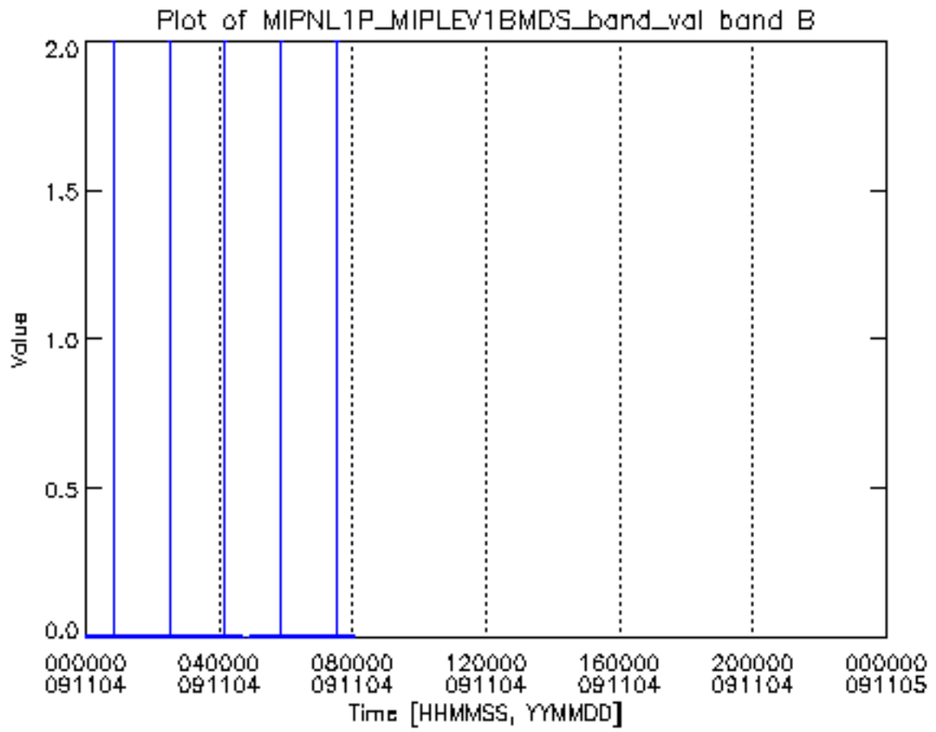

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs(green color=0 errors)
50.00
40.00
30.00
20.00
10.00
0.000
−10.00
35
0
90
35
15
−30
−60

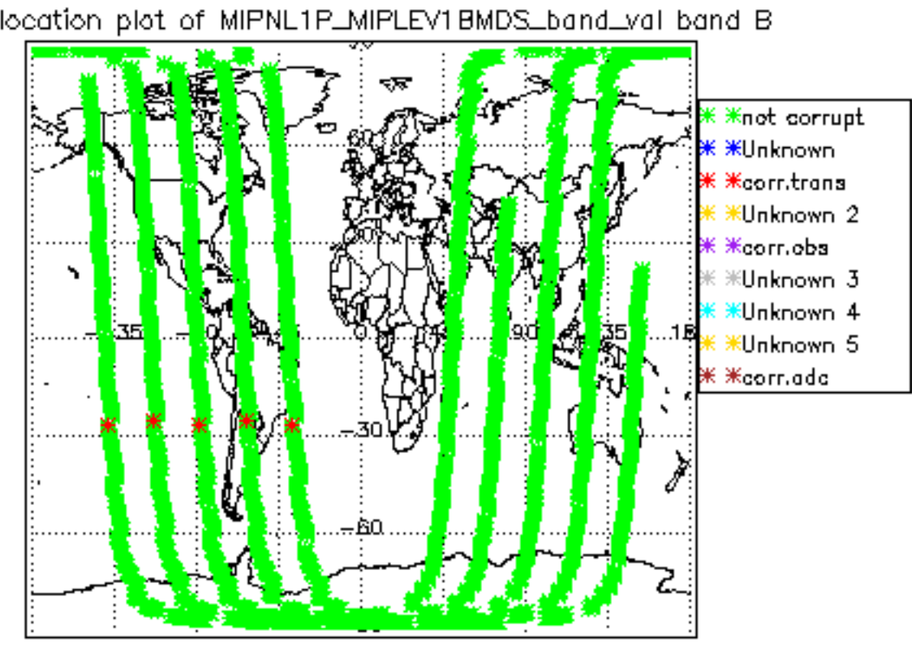

Plot of MIPNL1P_MIPLEV1BMDS_band_val band A
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

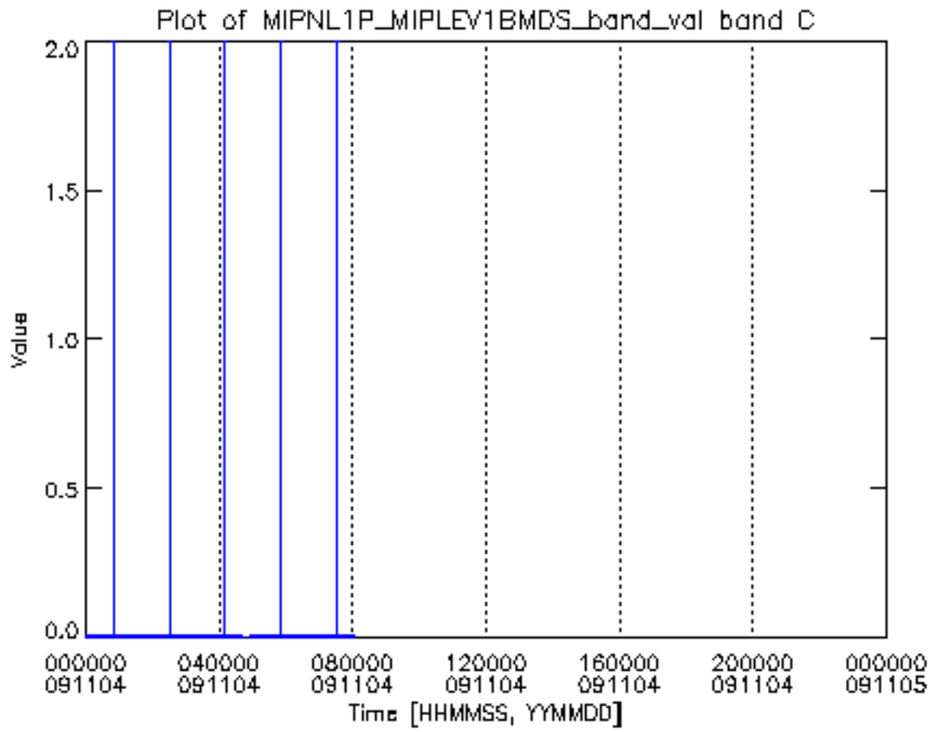

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-35
0
90
35
15
-30
-60

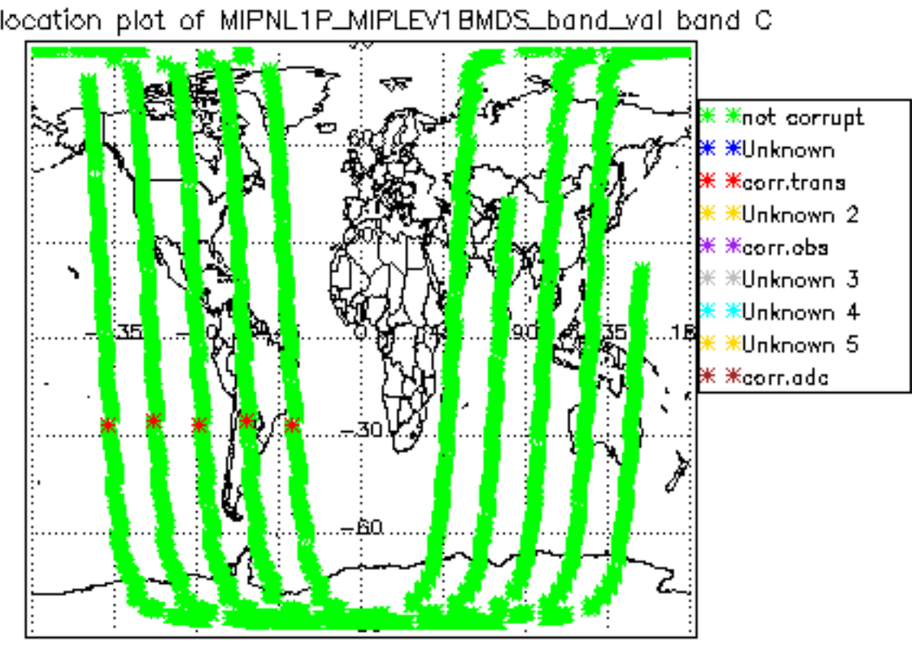

Plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

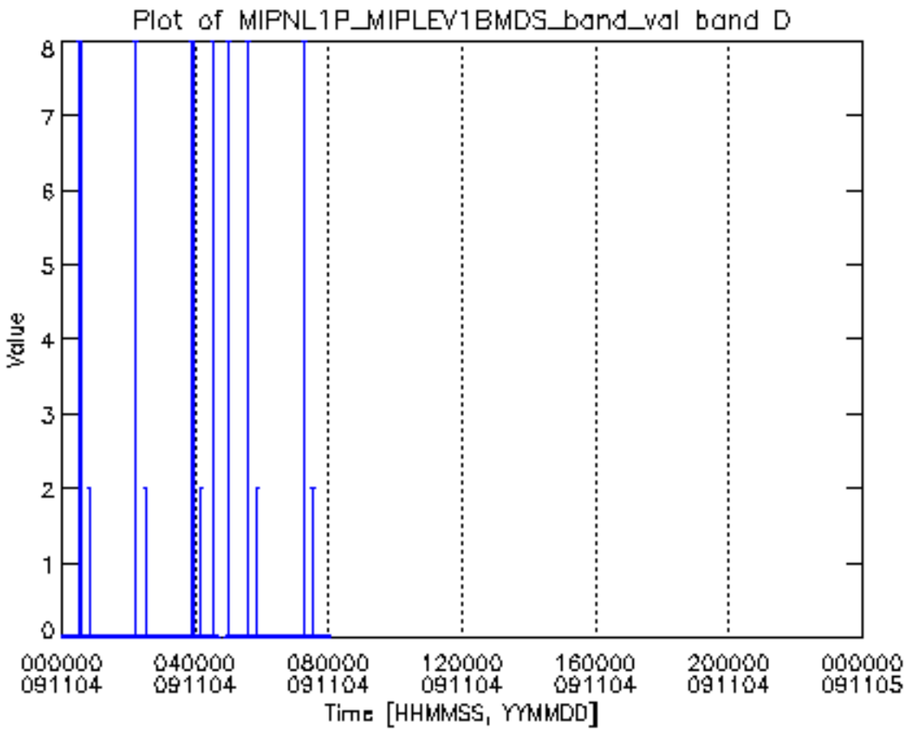

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-35
0
90
35
15
-30
-60

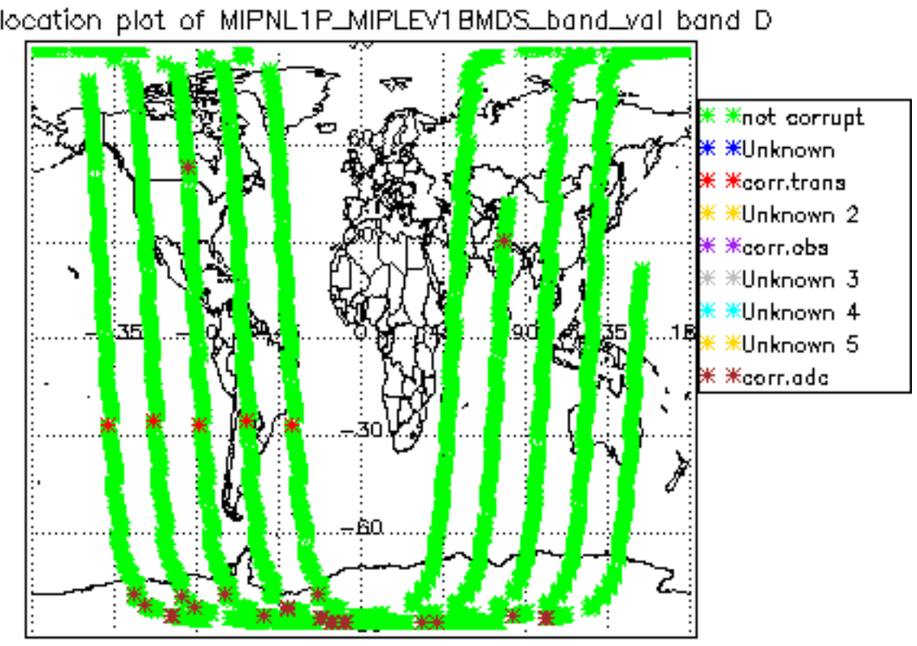

Plot of MIPNL1P_MIPLEV1BMDS_band_val band B
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

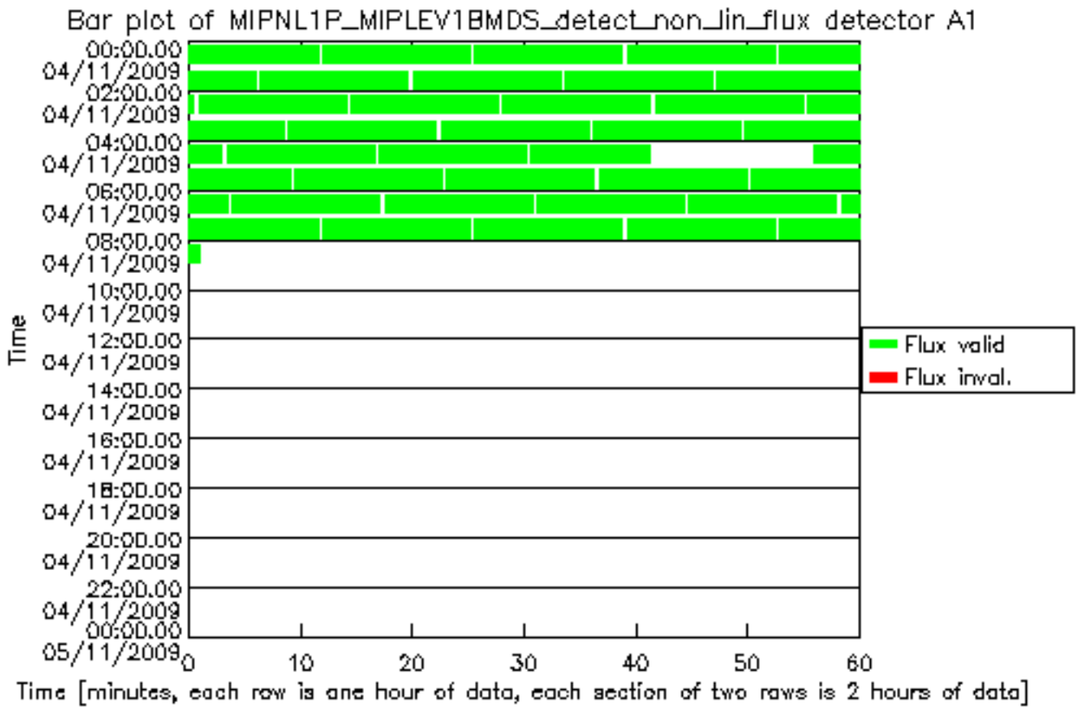

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-35
0
90
35
15
-30
-60

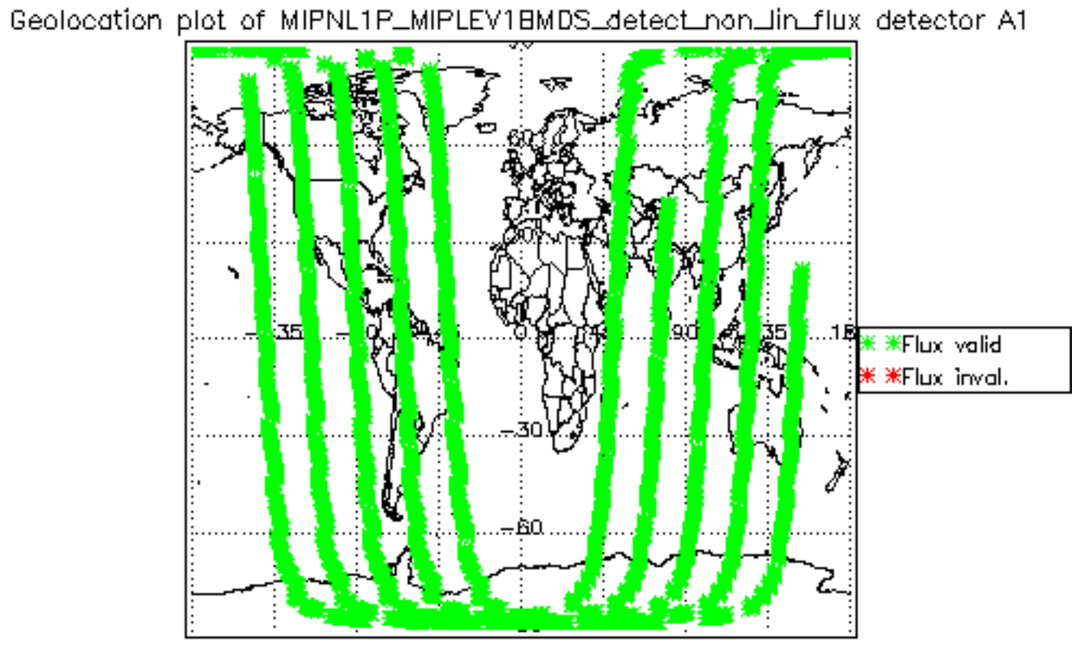

Plot of MIPNL1P_MIPLEV1BMDS_band_val band C
Value
2.0
1.5
1.0
0.5
0.0
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

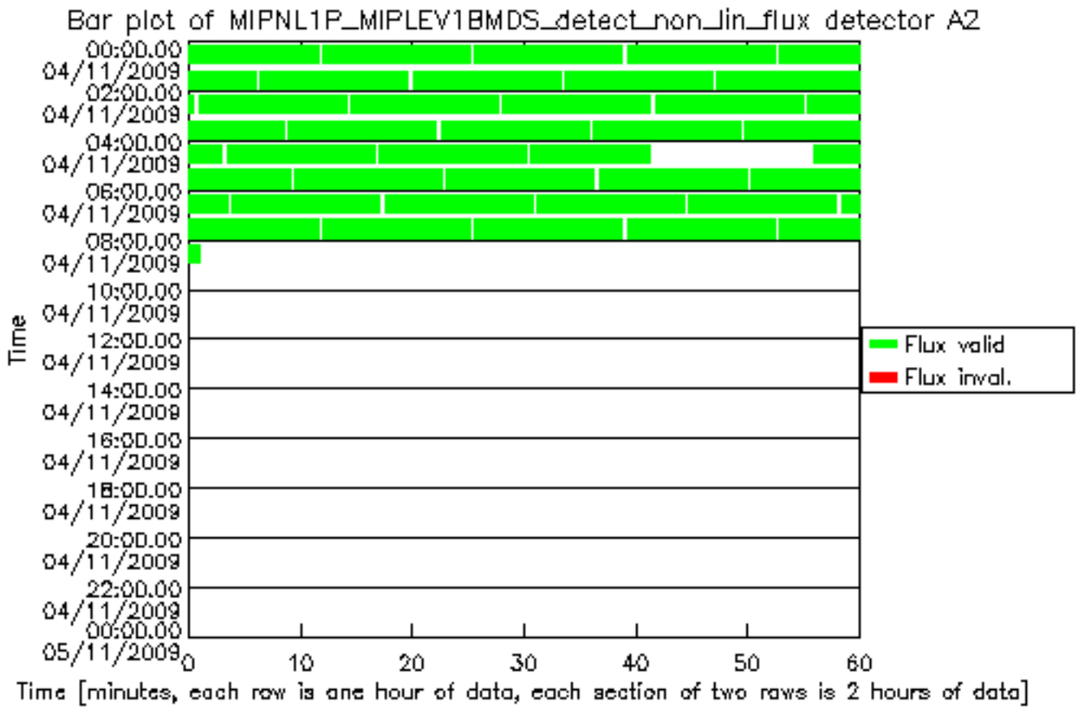

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-35
0
90
35
15
-30
-60

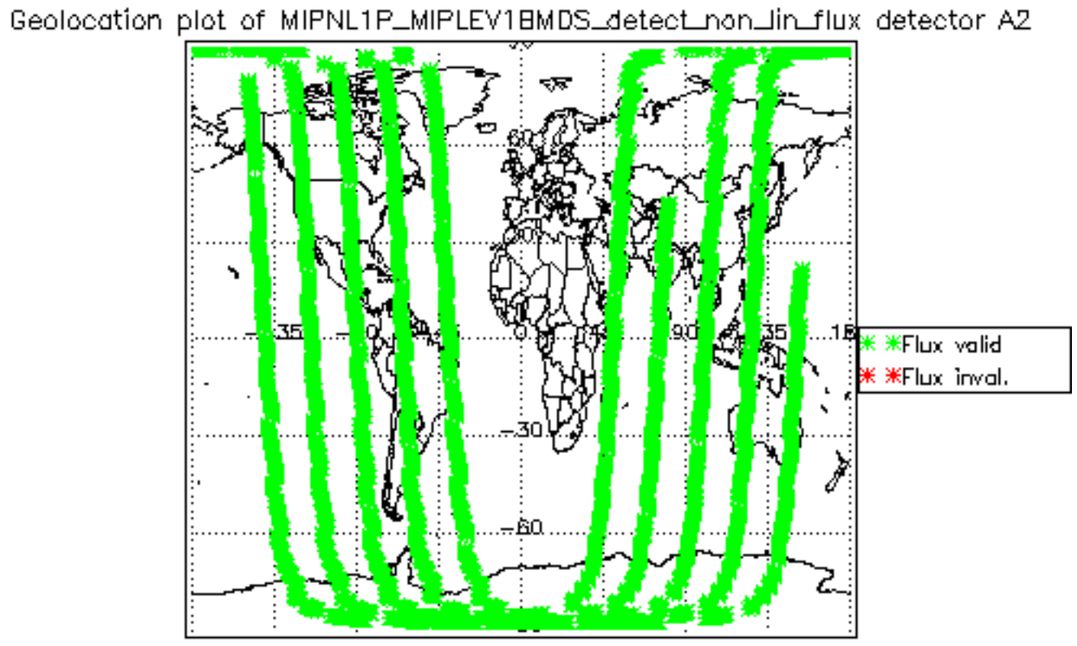

Plot of MIPNL1P_MIPLEV1BMDS_band_val band D
Value
0
1
2
3
4
5
6
7
8
000000 091104
040000 091104
080000 091104
120000 091104
160000 091104
200000 091104
000000 091105
Time [HHMMSS, YYMMDD]

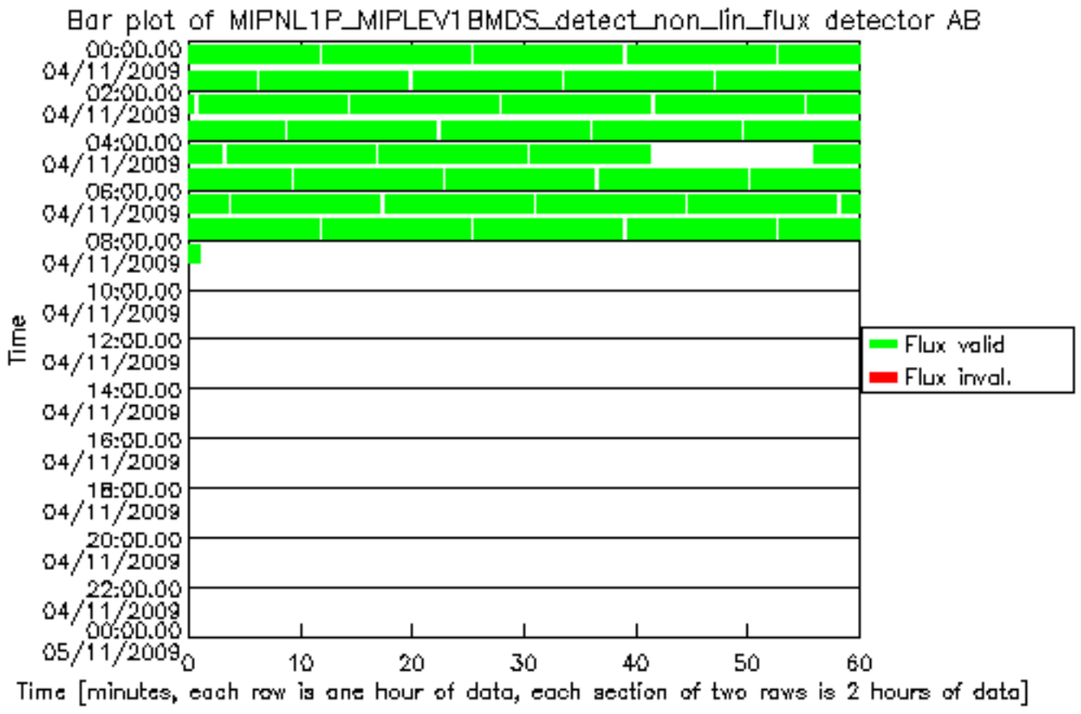

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D
not corrupt
Unknown
corr.trans
Unknown 2
corr.obs
Unknown 3
Unknown 4
Unknown 5
corr.adc
-35
0
90
35
15
-30
-60

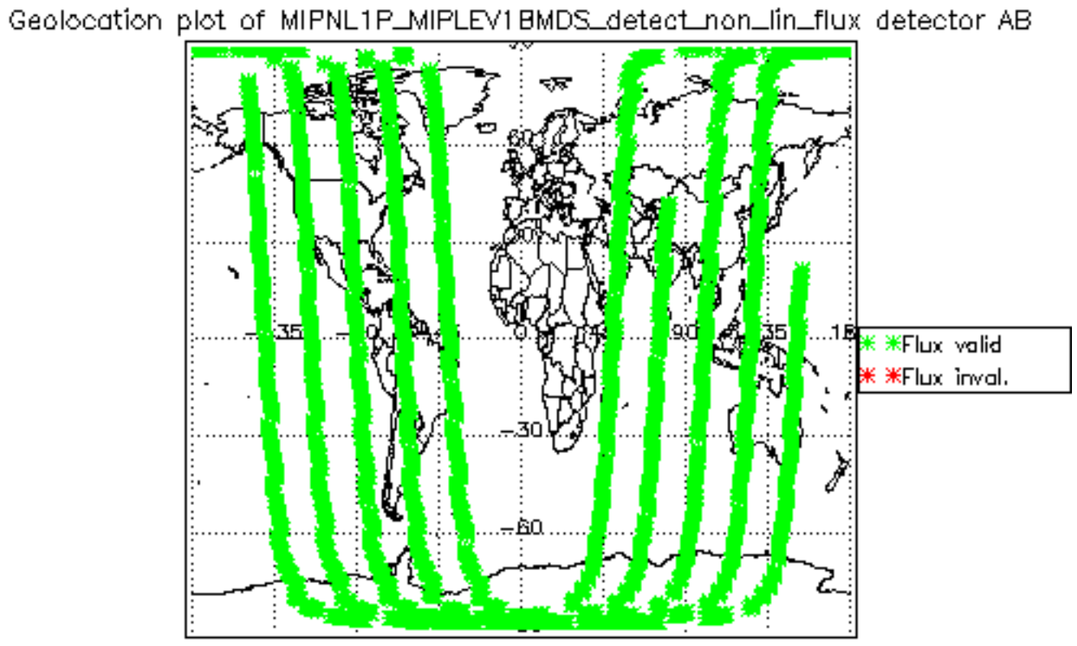

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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.

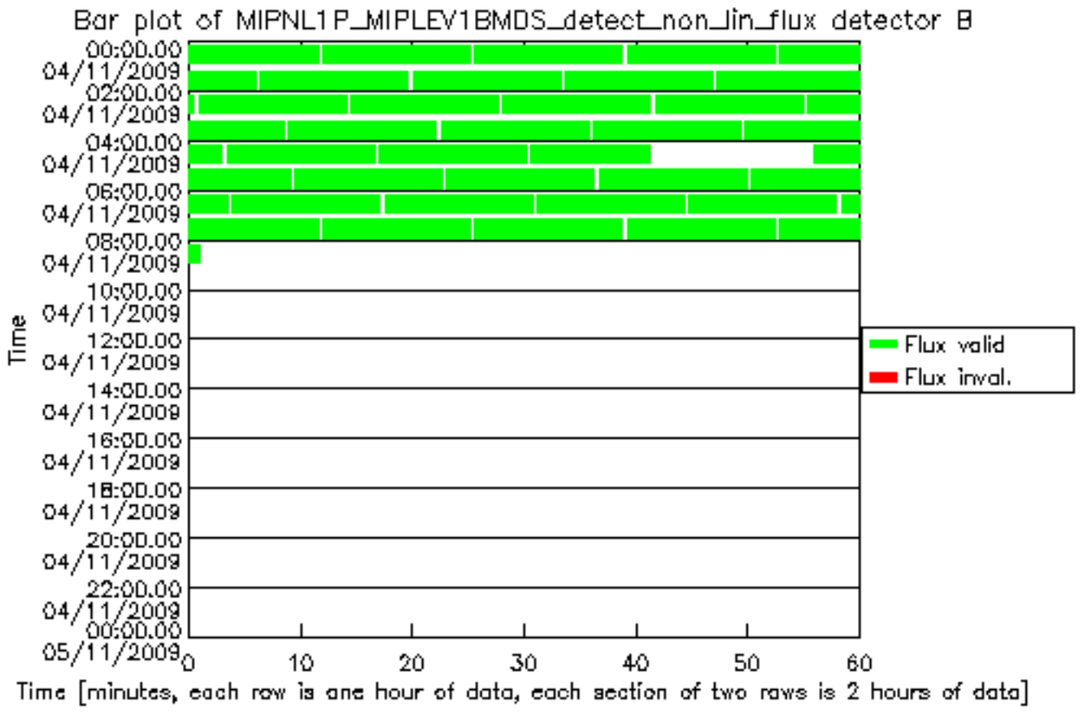

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1
-35
0
90
135
180
-30
-60
Flux valid
Flux inval.

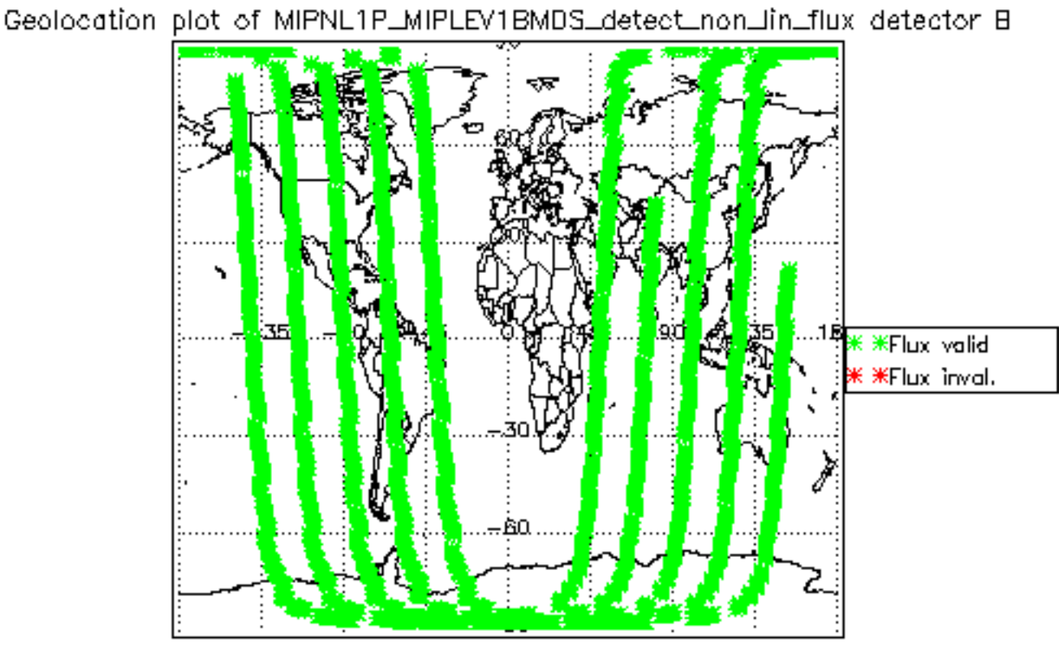

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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.

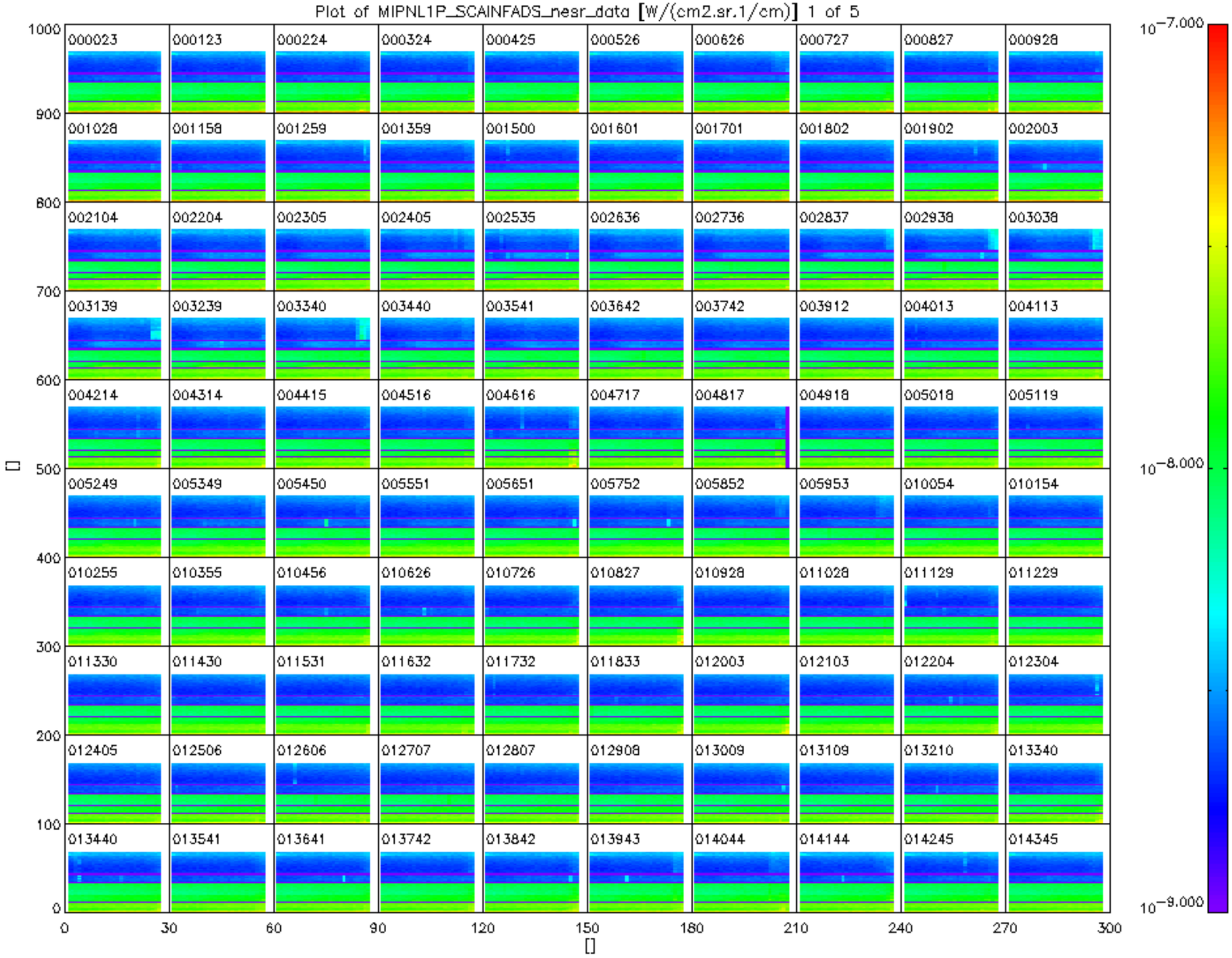

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2
-35
0
90
135
180
-30
-60
Flux valid
Flux inval.


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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 AB
-35
0
90
135
180
-30
-60
Flux valid
Flux inval.


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B
Time
00:00.00 04/11/2009
02:00.00 04/11/2009
04:00.00 04/11/2009
06:00.00 04/11/2009
08:00.00 04/11/2009
10:00.00 04/11/2009
12:00.00 04/11/2009
14:00.00 04/11/2009
16:00.00 04/11/2009
18:00.00 04/11/2009
20:00.00 04/11/2009
22:00.00 04/11/2009
00:00.00 05/11/2009
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 B
-35
0
90
135
180
-30
-60
Flux valid
Flux inval.


Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 1 of 5
000023 000123 000224 000324 000425 000526 000626 000727 000827 000928
001028 001158 001259 001359 001500 001601 001701 001802 001902 002003
002104 002204 002305 002405 002535 002636 002736 002837 002938 003038
003139 003239 003340 003440 003541 003642 003742 003912 004013 004113
004214 004314 004415 004516 004616 004717 004817 004918 005018 005119
005249 005349 005450 005551 005651 005752 005852 005953 010054 010154
010255 010355 010456 010626 010726 010827 010928 011028 011129 011229
011330 011430 011531 011632 011732 011833 012003 012103 012204 012304
012405 012506 012606 012707 012807 012908 013009 013109 013210 013340
013440 013541 013641 013742 013842 013943 014044 014144 014245 014345
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 5

014446	014547	014716	014817	014918	015018	015119	015219	015320	015421
015521	015622	015722	015823	015923	020053	020154	020254	020355	020456
020556	020657	020757	020858	020959	021059	021200	021300	021430	021531
021631	021732	021833	021933	022034	022134	022235	022335	022436	022537
022637	022807	022908	023008	023109	023209	023310	023411	023511	023612
023712	023813	023914	024014	024144	024245	024345	024446	024546	024647
024747	024848	024949	025049	025150	025250	025351	025521	025621	025722
025823	025923	030024	030124	030225	030325	030426	030527	030627	030728
030858	030958	031059	031159	031300	031401	031501	031602	031702	031803
031904	032004	032105	032235	032335	032436	032536	032637	032737	032838

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

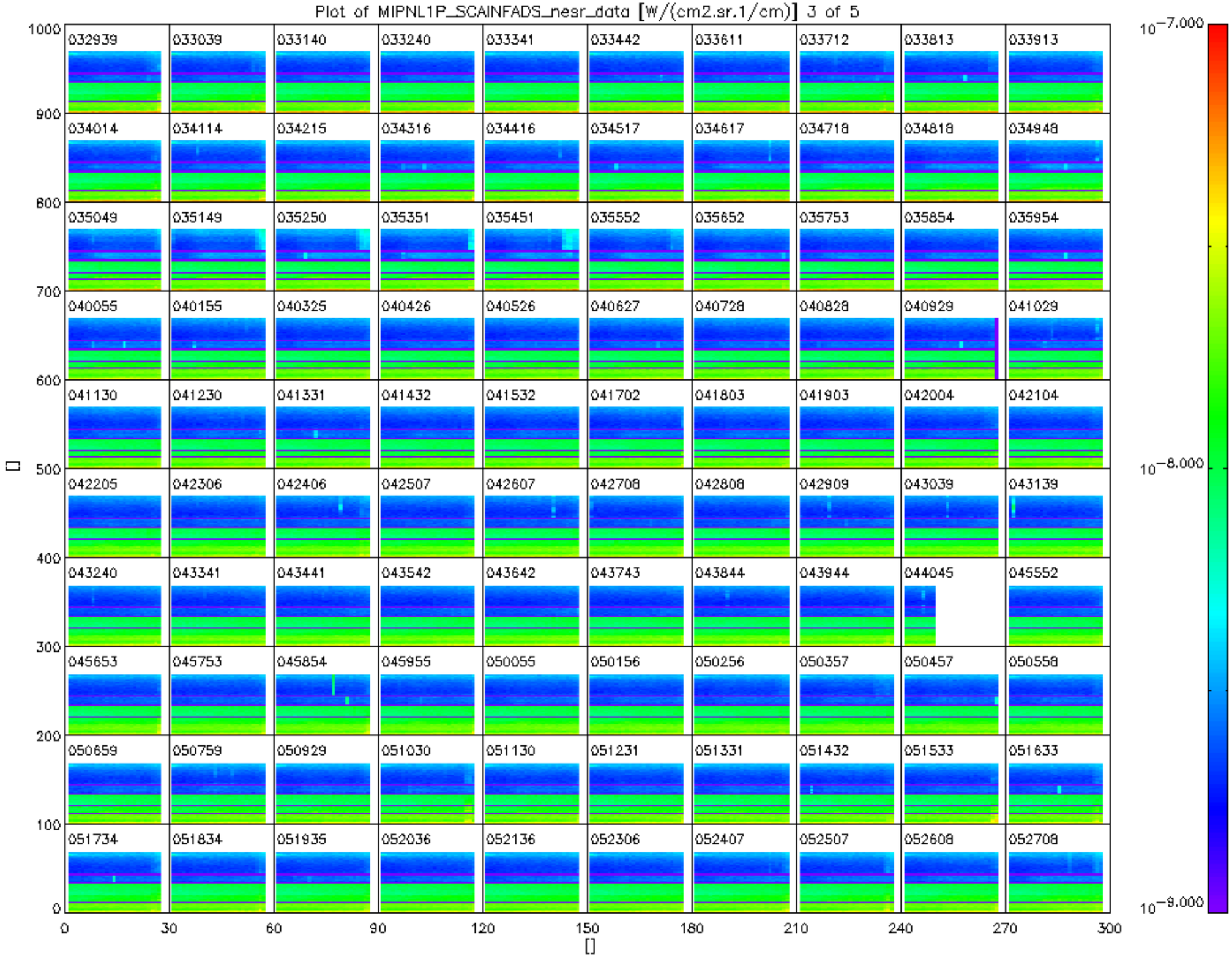
0 30 60 90 120 150 180 210 240 270 300

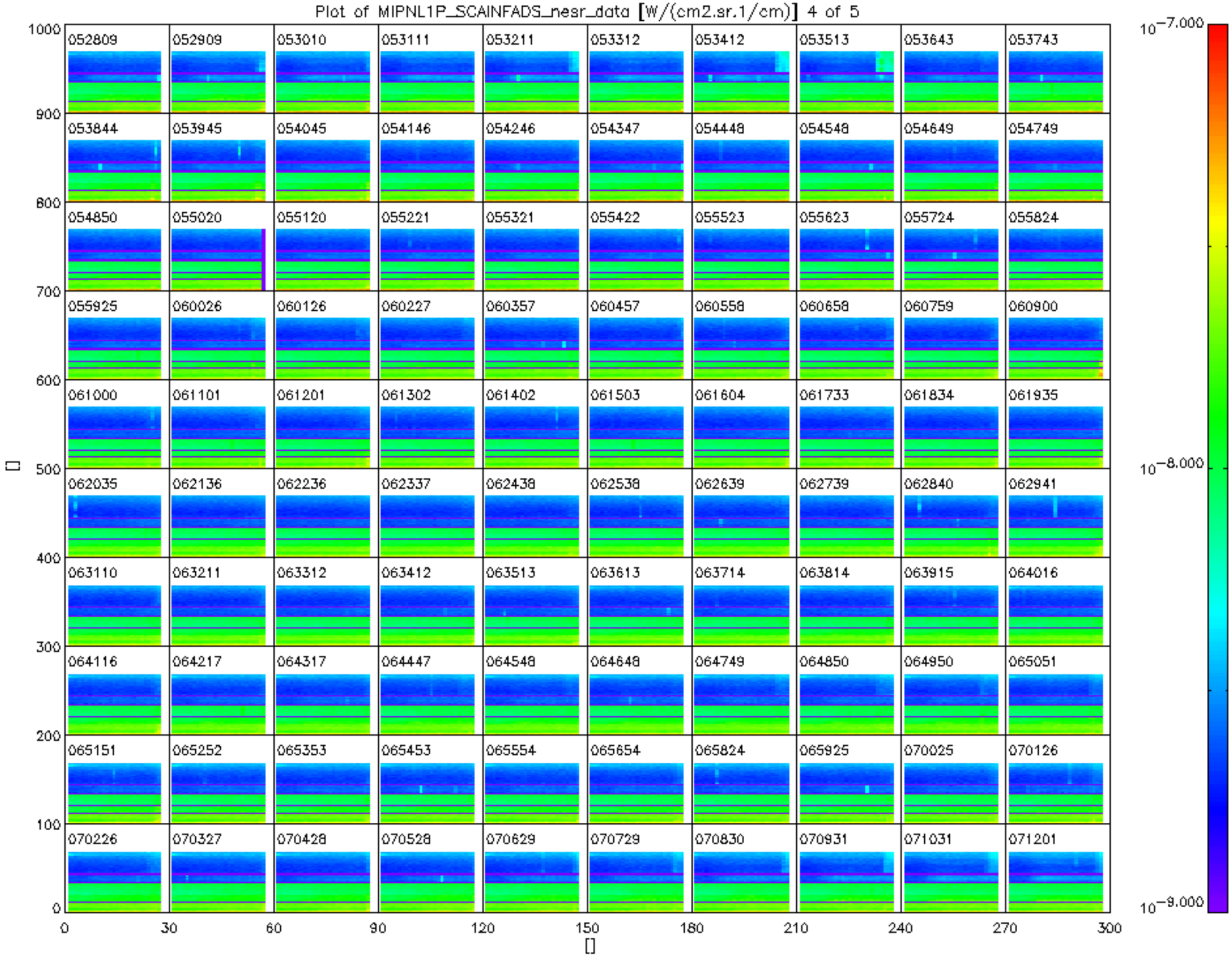
[]

$10^{-7.000}$

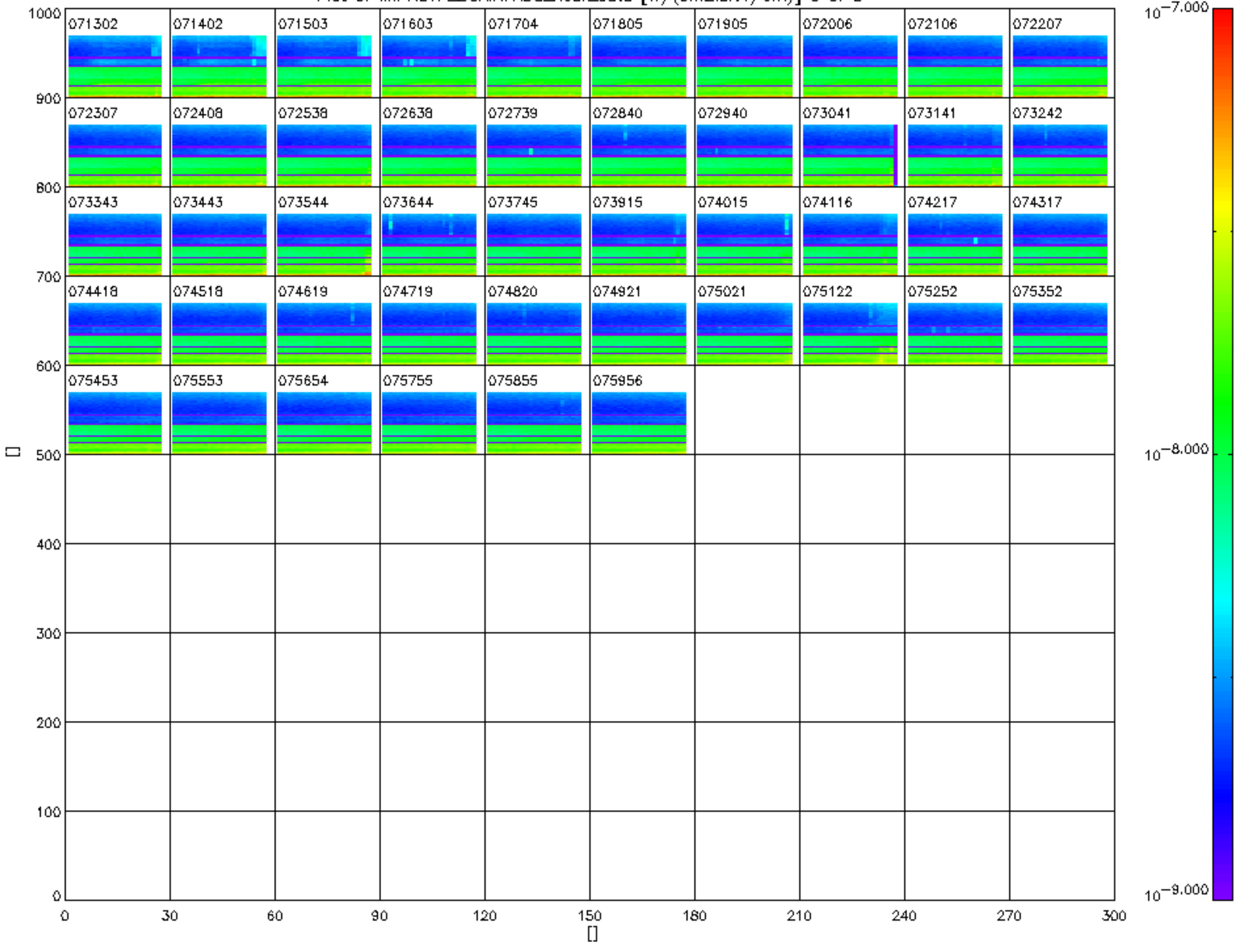
$10^{-8.000}$

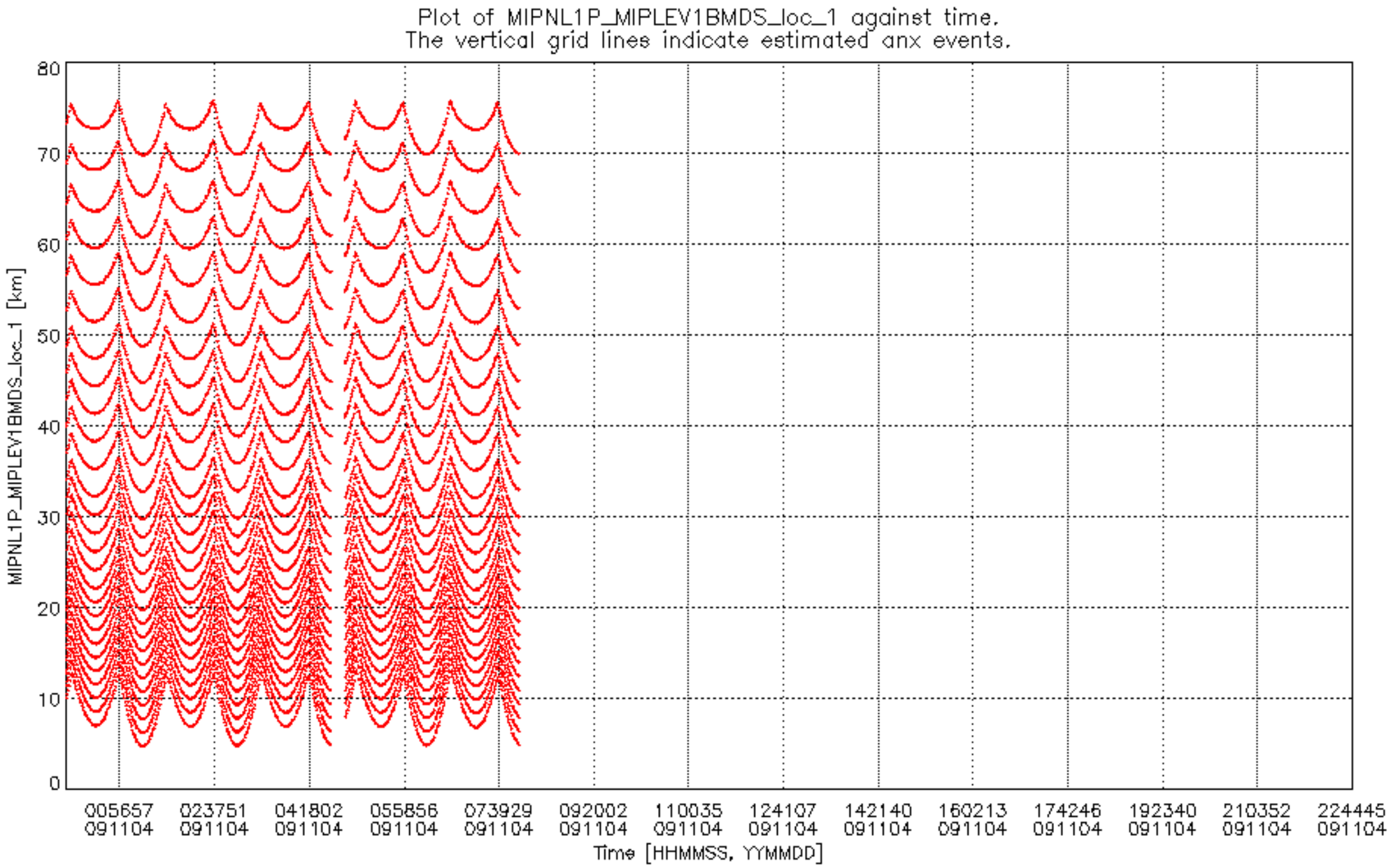
$10^{-9.000}$

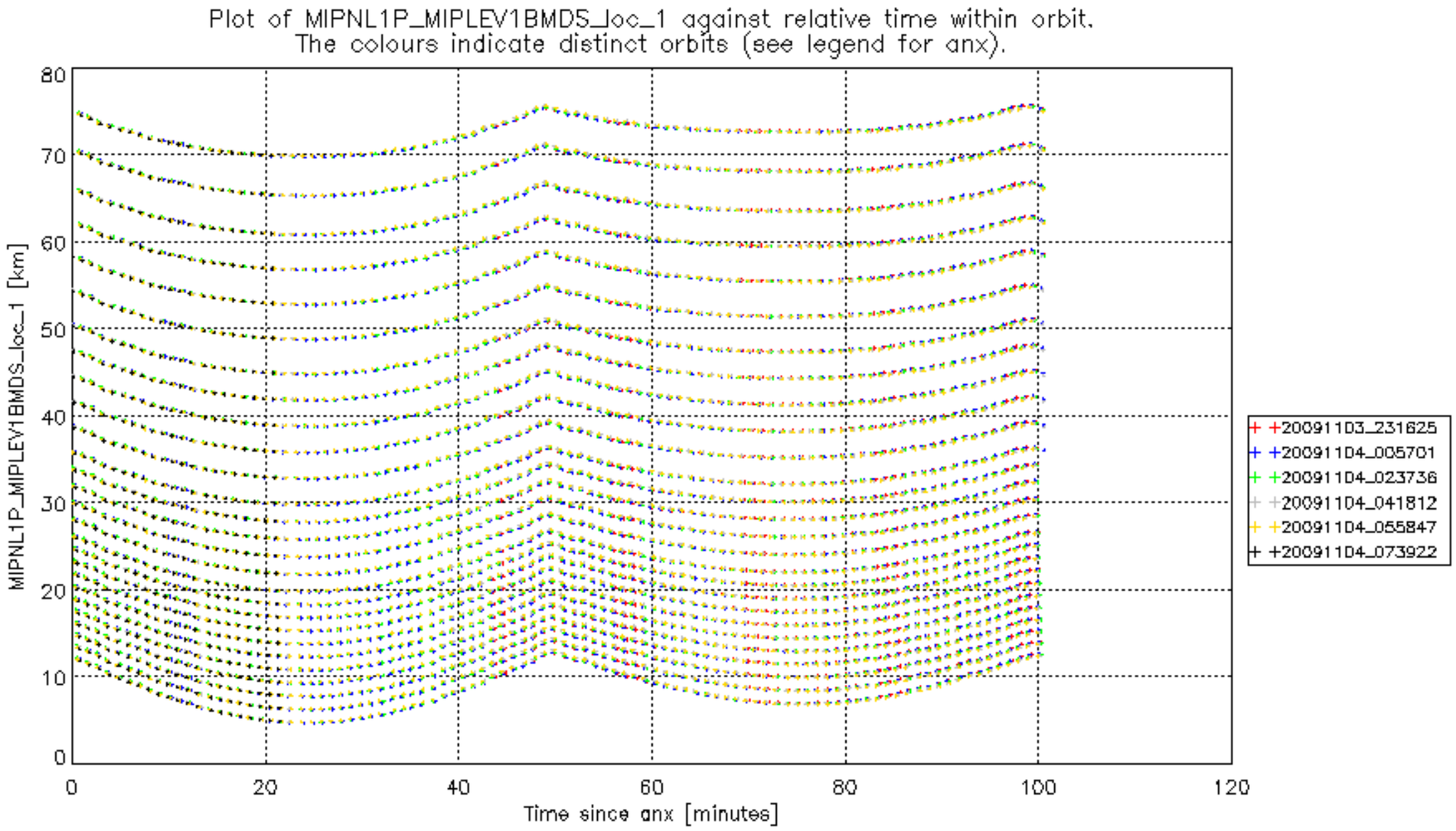

Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 3 of 5
032939 033039 033140 033240 033341 033442 033611 033712 033813 033913
034014 034114 034215 034316 034416 034517 034617 034718 034818 034948
035049 035149 035250 035351 035451 035552 035652 035753 035854 035954
040055 040155 040325 040426 040526 040627 040728 040828 040929 041029
041130 041230 041331 041432 041532 041702 041803 041903 042004 042104
042205 042306 042406 042507 042607 042708 042808 042909 043039 043139
043240 043341 043441 043542 043642 043743 043844 043944 044045 045552
045653 045753 045854 045955 050055 050156 050256 050357 050457 050558
050659 050759 050929 051030 051130 051231 051331 051432 051533 051633
051734 051834 051935 052036 052136 052306 052407 052507 052608 052708
1000
900
800
700
600
500
400
300
200
100
0
[]
0 30 60 90 120 150 180 210 240 270 300
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$

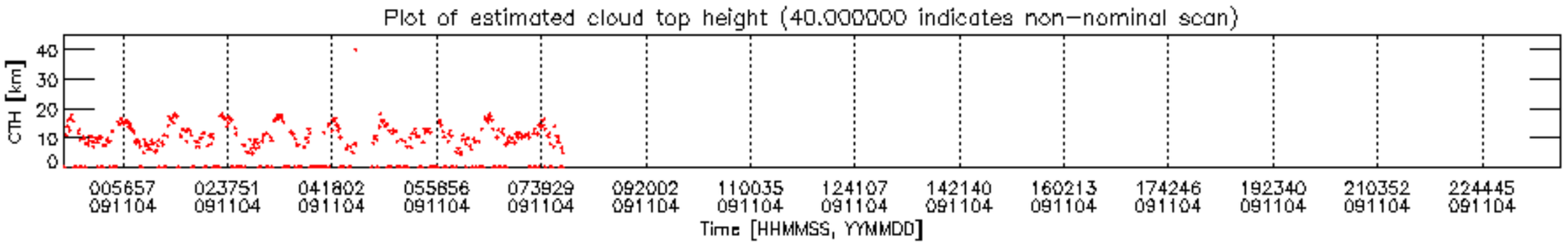

Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 4 of 5
052809 052909 053010 053111 053211 053312 053412 053513 053643 053743
053844 053945 054045 054146 054246 054347 054448 054548 054649 054749
054850 055020 055120 055221 055321 055422 055523 055623 055724 055824
055925 060026 060126 060227 060357 060457 060558 060658 060759 060900
061000 061101 061201 061302 061402 061503 061604 061733 061834 061935
062035 062136 062236 062337 062438 062538 062639 062739 062840 062941
063110 063211 063312 063412 063513 063613 063714 063814 063915 064016
064116 064217 064317 064447 064548 064648 064749 064850 064950 065051
065151 065252 065353 065453 065554 065654 065824 065925 070025 070126
070226 070327 070428 070528 070629 070729 070830 070931 071031 071201
1000
900
800
700
600
500
400
300
200
100
0
[]
0 30 60 90 120 150 180 210 240 270 300
[]
$10^{-7.000}$
$10^{-8.000}$
$10^{-9.000}$

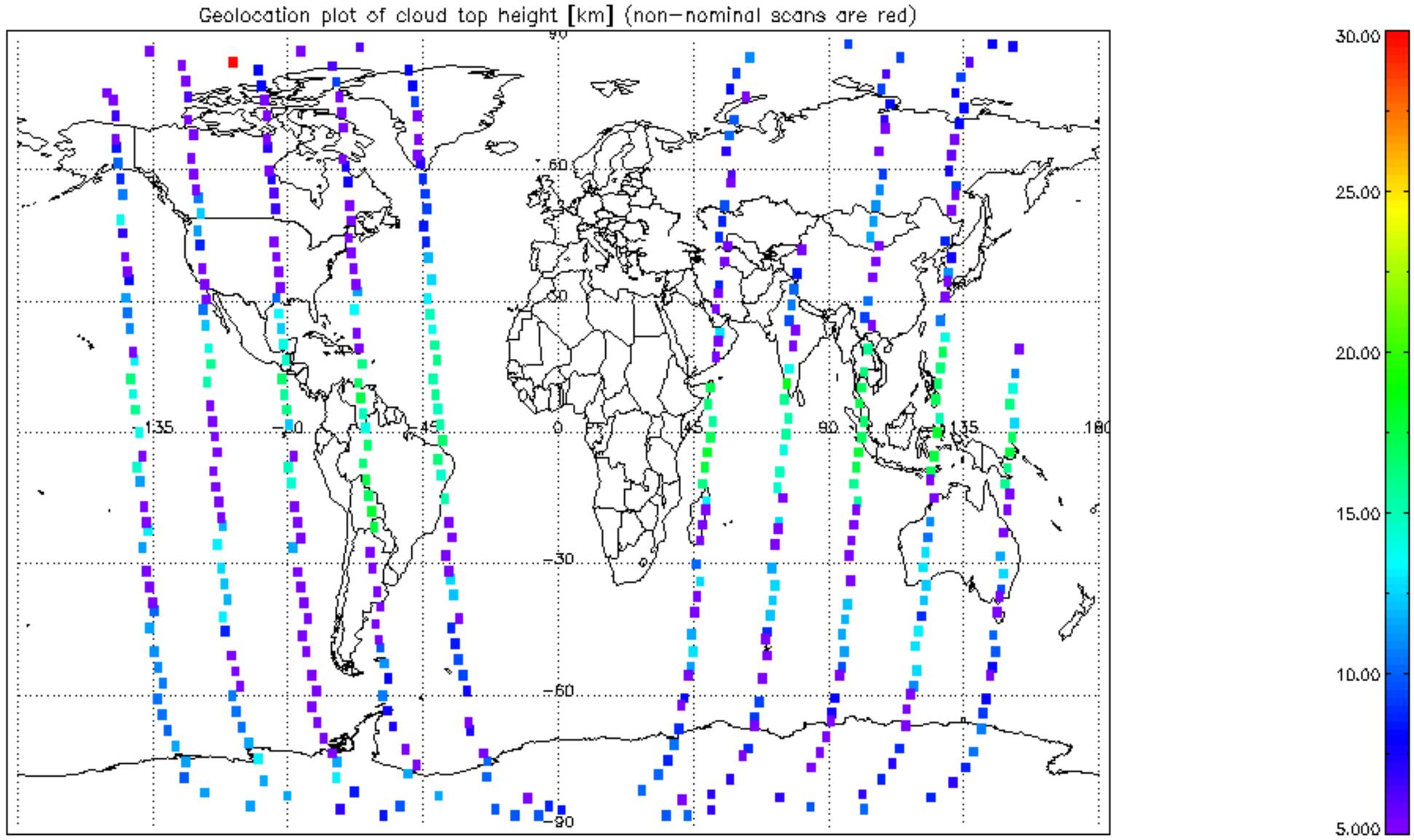
Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm2.sr.1/cm)] 5 of 5

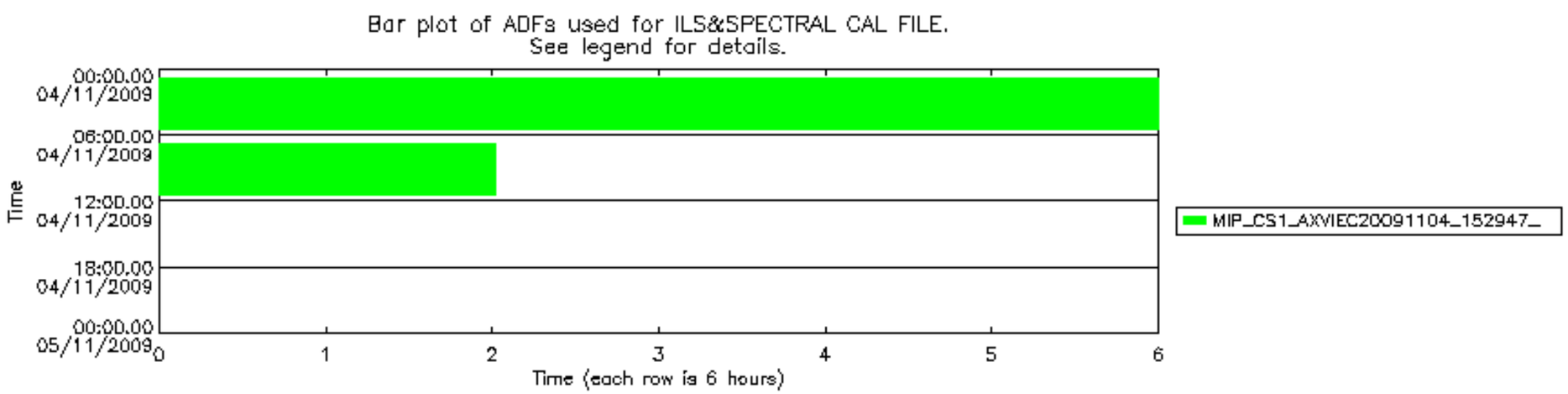


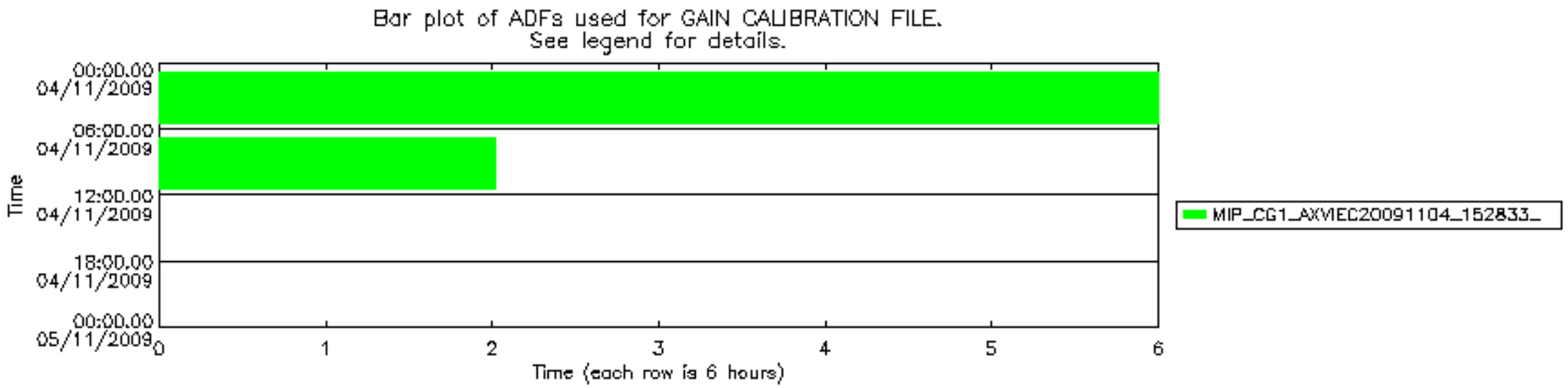

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against time.
The vertical grid lines indicate estimated anx events.
MIPNL1P_MIPLEV1BMDS_loc_1 [km]
80
70
60
50
40
30
20
10
0
005657 091104
023751 091104
041802 091104
055856 091104
073929 091104
092002 091104
110035 091104
124107 091104
142140 091104
160213 091104
174246 091104
192340 091104
210352 091104
224445 091104
Time [HHMMSS, YYMMDD]

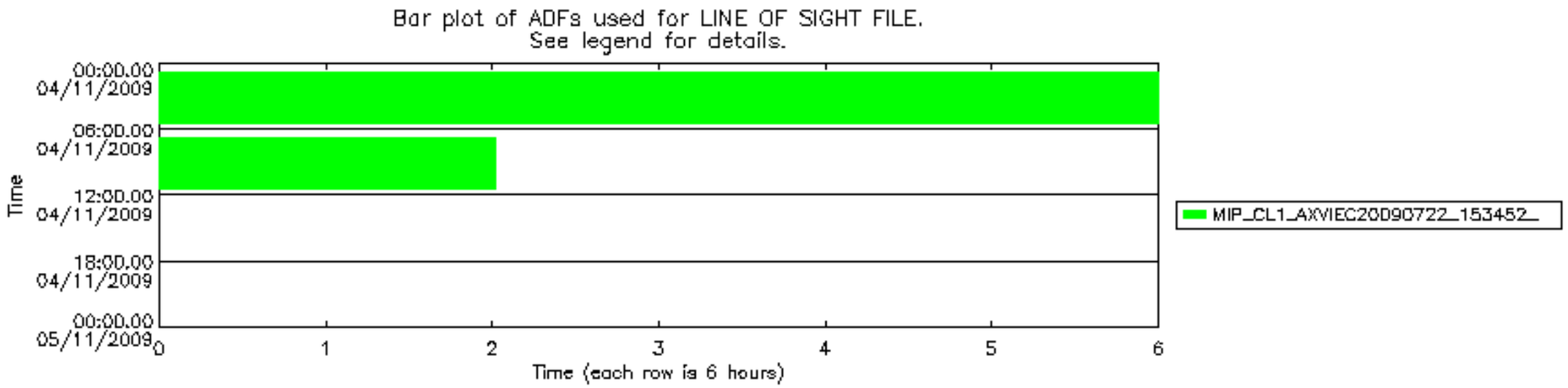

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).
MIPNL1P_MIPLEV1BMDS_loc_1 [km]
Time since anx [minutes]
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
+20091103_231625
+20091104_005701
+20091104_023736
+20091104_041812
+20091104_055847
+20091104_073922

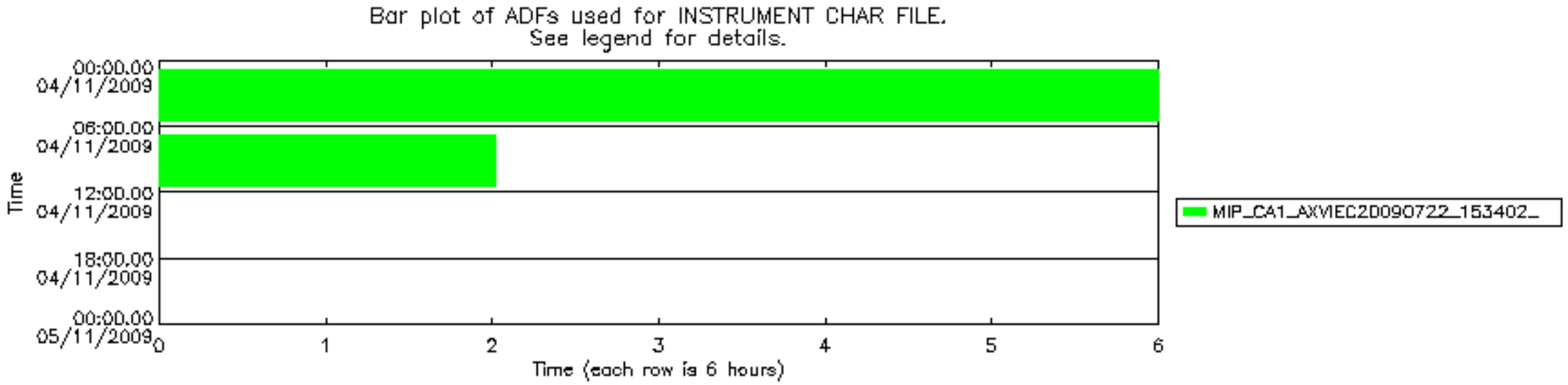

Plot of estimated cloud top height (40.000000 indicates non-nominal scan)
CTH [km]
40
30
20
10
0
005657 091104
023751 091104
041802 091104
055856 091104
073929 091104
092002 091104
110035 091104
124107 091104
142140 091104
160213 091104
174246 091104
192340 091104
210352 091104
224445 091104
Time [HHMMSS, YYMMDD]

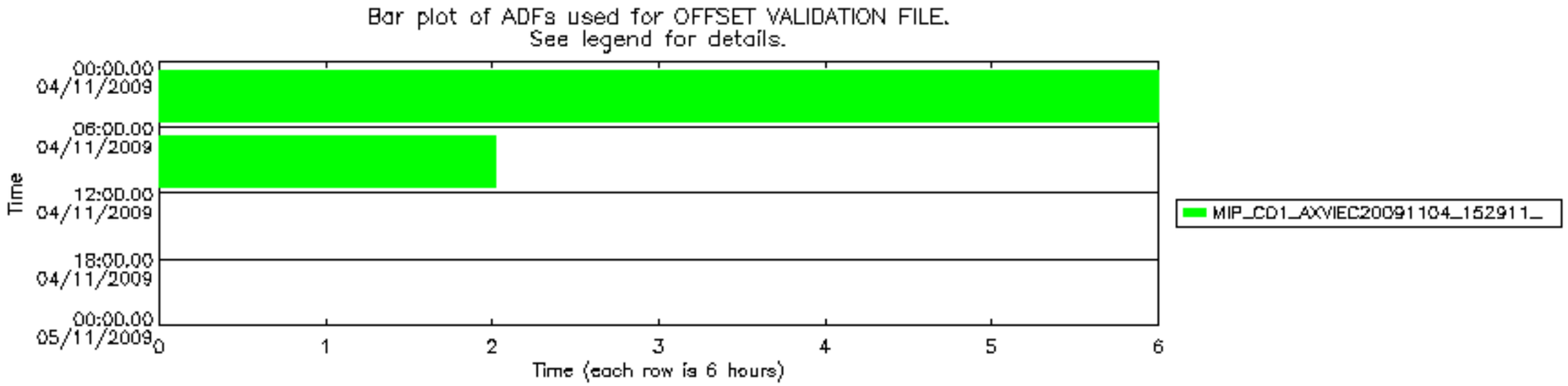

Geolocation plot of cloud top height [km] (non-nominal scans are red)
90
60
30
0
-30
-60
-90
-135
-90
-45
0
45
90
135
180
30.00
25.00
20.00
15.00
10.00
5.000

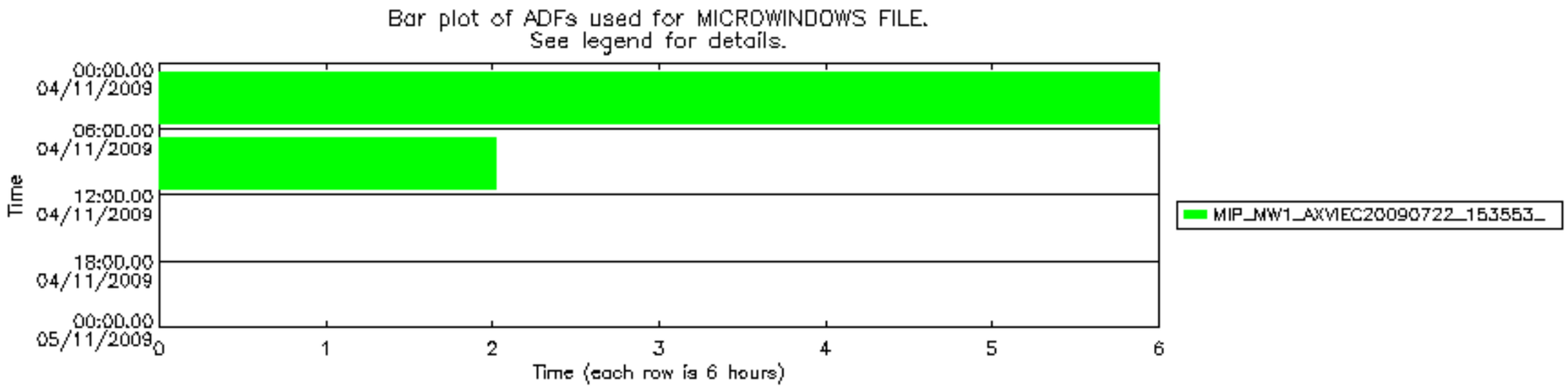

Bar plot of ADFs used for ILS&SPECTRAL CAL FILE.
See legend for details.
Time
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CS1_AXVIEC20091104_152947_

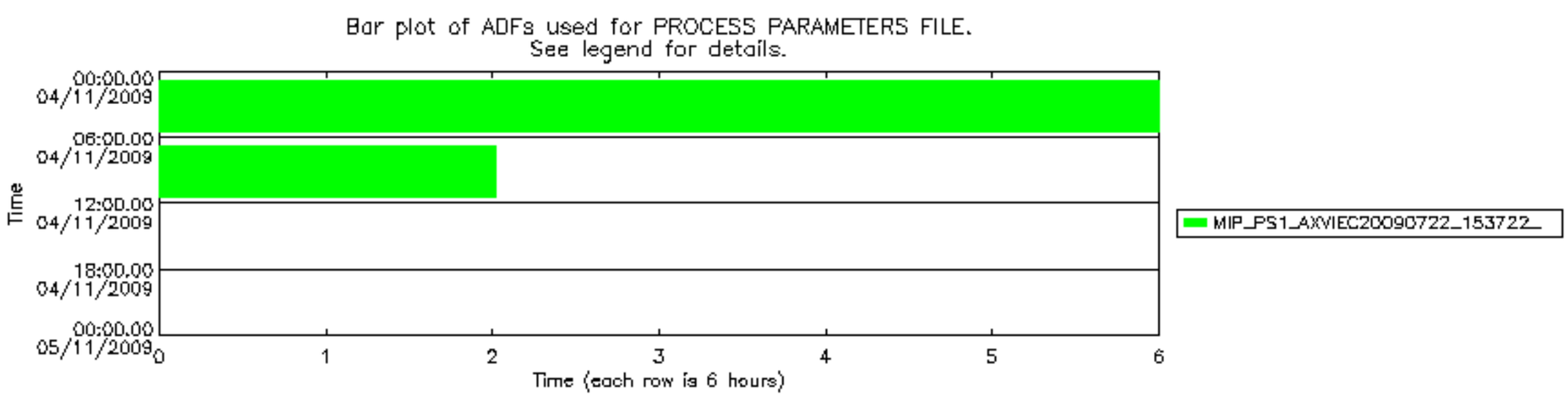

Bar plot of ADFs used for GAIN CALIBRATION FILE.
See legend for details.
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CG1_AXVIEC20091104_152833_

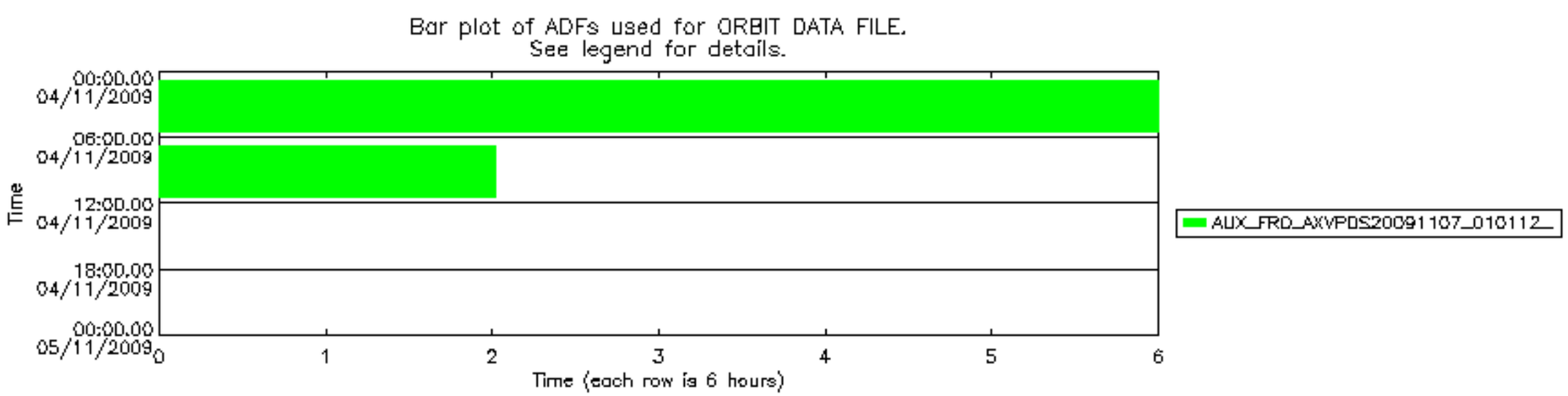

Bar plot of ADFs used for LINE OF SIGHT FILE.
See legend for details.
Time
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CL1_AXVIEC20090722_153452_


Bar plot of ADFs used for INSTRUMENT CHAR FILE.
See legend for details.
Time
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CA1_AXVIEC20090722_153402_


Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_CD1_AXVIEC20091104_152911_


Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_MW1_AXVIEC20090722_153553_


Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
MIP_PS1_AXVIEC20090722_153722_


Bar plot of ADFs used for ORBIT DATA FILE.
See legend for details.
00:00.00
04/11/2009
06:00.00
04/11/2009
12:00.00
04/11/2009
18:00.00
04/11/2009
00:00.00
05/11/2009
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FRO_AXVPOS20091107_010112_