

1. MIPAS Daily Report for level 1 products

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- [1.2 Product Quality Indicators](#)
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- [1.4 ADF monitoring](#)

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	31OCT2010 01:50:08
Data source version	MIPAS/5.05-R
Processing scope for products	13OCT2010 00:00:00 to 14OCT2010 00:00:00
Start time of first product within scope	12OCT2010 23:29:23
Stop time of last product within scope	13OCT2010 07:59:32
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.

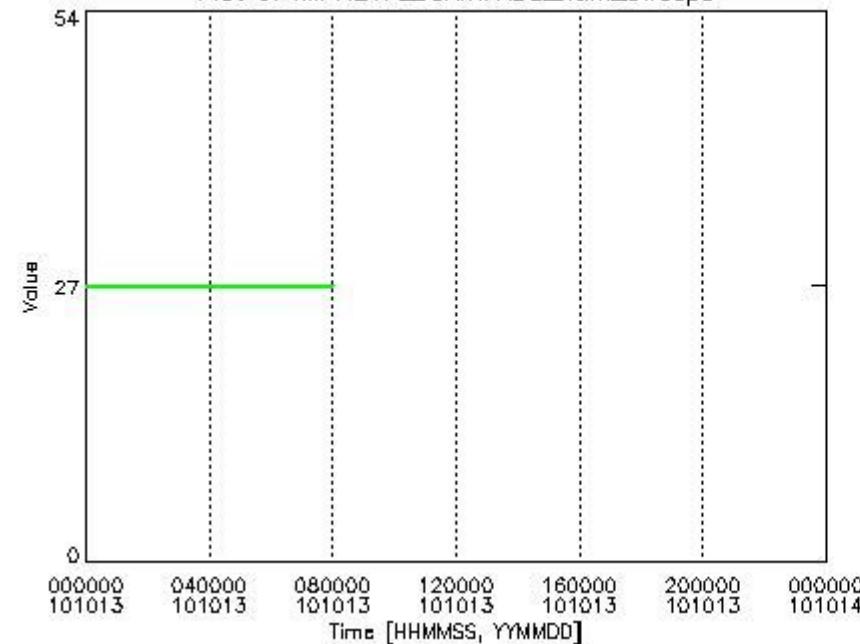
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)	#sweeps SPH
0	MIP_NL__1PRDPA20101012_232923_000059842093_00417_45060_6314.N1	12OCT2010 23:29:23	13OCT2010 01:09:06	0	0/0	27
1	MIP_NL__1PRDPA20101013_010912_000060762093_00418_45061_6317.N1	13OCT2010 01:09:12	13OCT2010 02:50:27	0	0/0	27
2	MIP_NL__1PRDPA20101013_025034_000060152093_00419_45062_6320.N1	13OCT2010 02:50:34	13OCT2010 04:30:48	0	0/0	27
3	MIP_NL__1PRDPA20101013_043124_000060152093_00420_45063_6322.N1	13OCT2010 04:31:24	13OCT2010 06:11:38	0	0/0	27
4	MIP_NL__1PRDPA20101013_061144_000060152093_00421_45064_6323.N1	13OCT2010 06:11:44	13OCT2010 07:51:59	0	0/0	27
5	MIP_NL__1PRDPA20101013_075205_000004482093_00422_45065_6325.N1	13OCT2010 07:52:05	13OCT2010 07:59:32	0	0/0	27

1.2 Product Quality Indicators

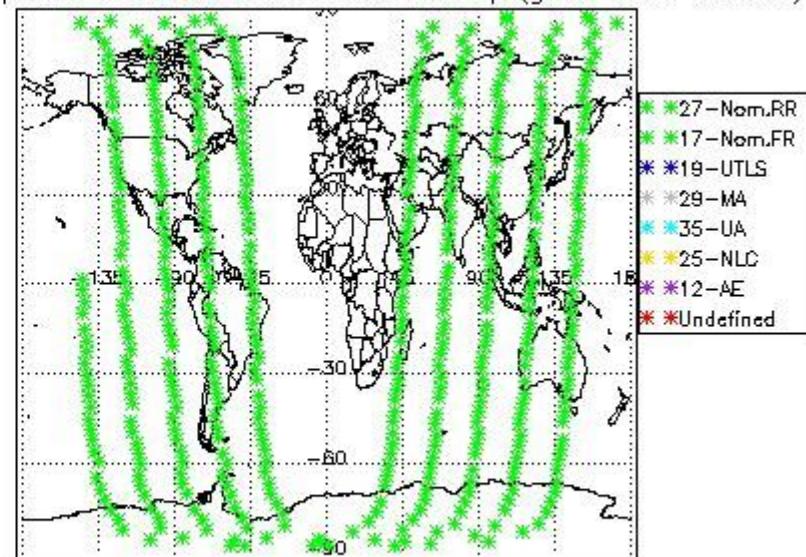
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

1.2.1 Trends and geolocation of Summary Quality and Scan Information ADS

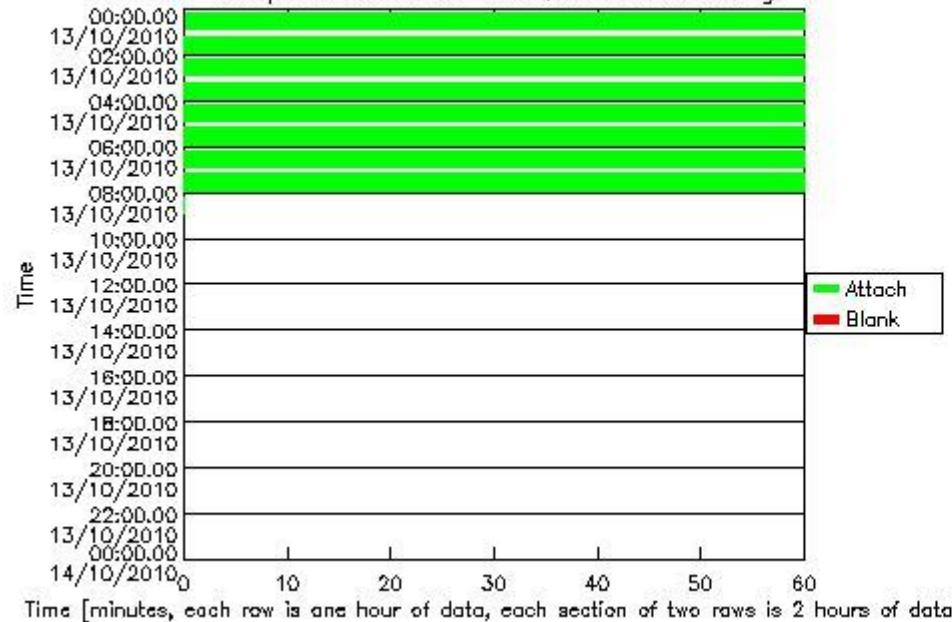
Plot of MIPNL1P_SCAINFADS_num_sweeps



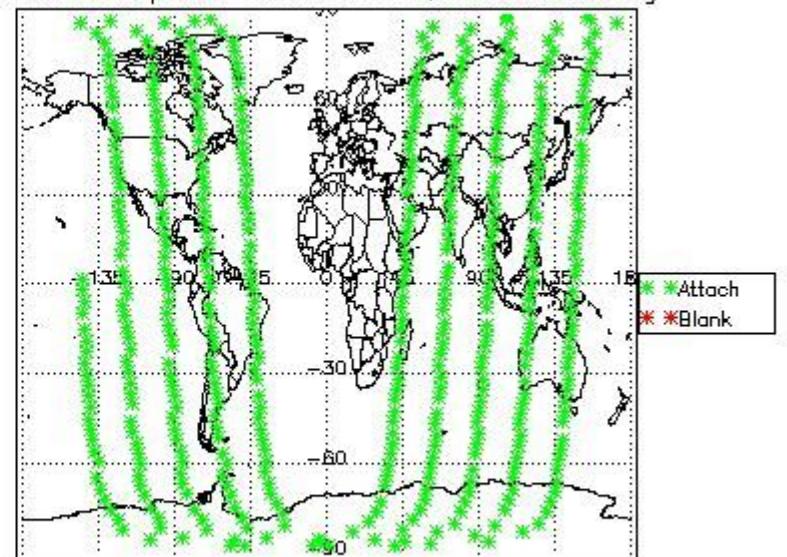
Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)

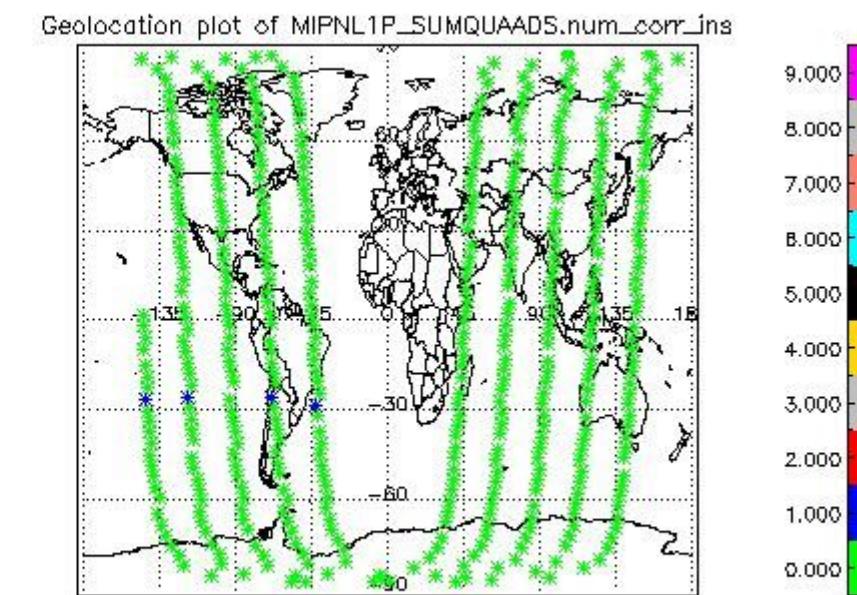
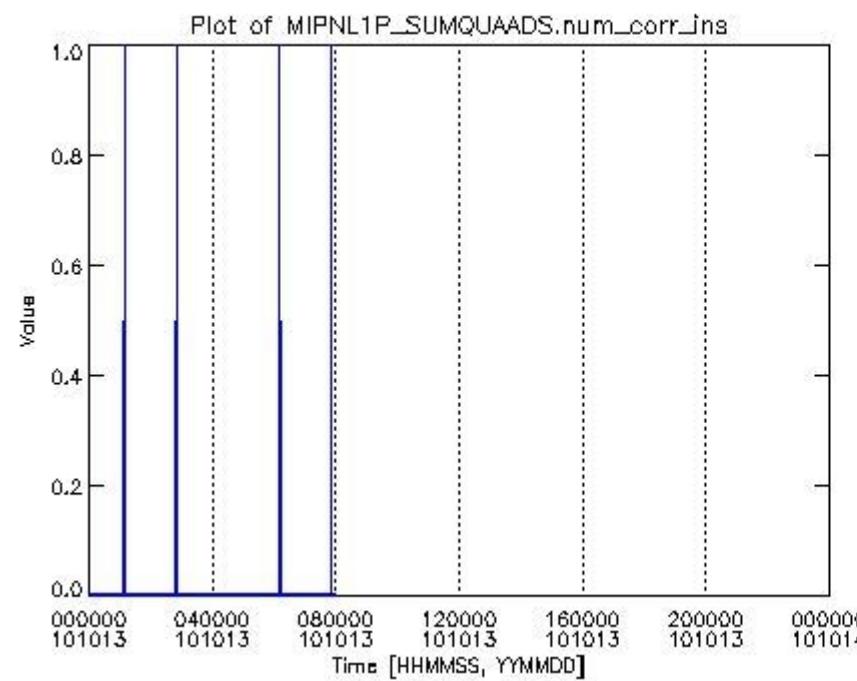
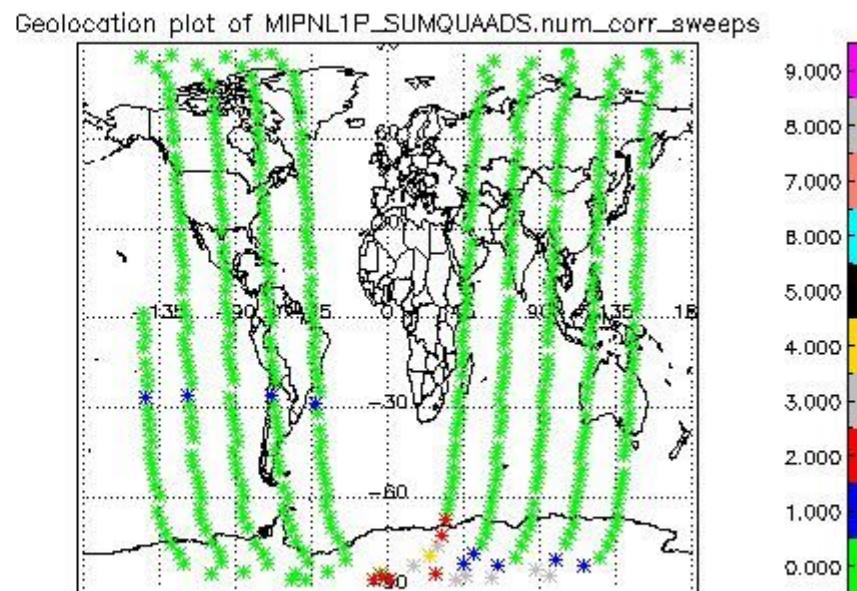
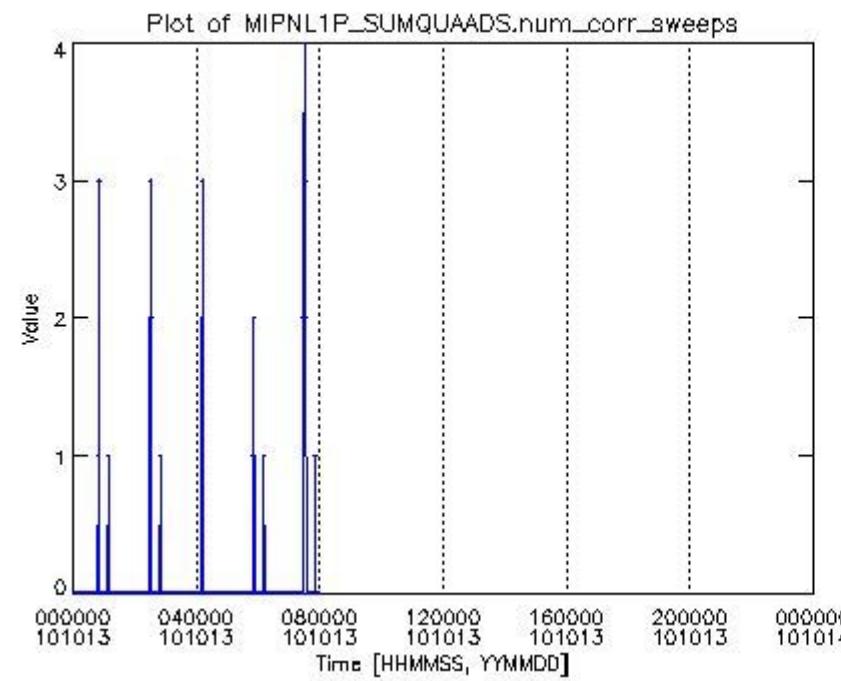


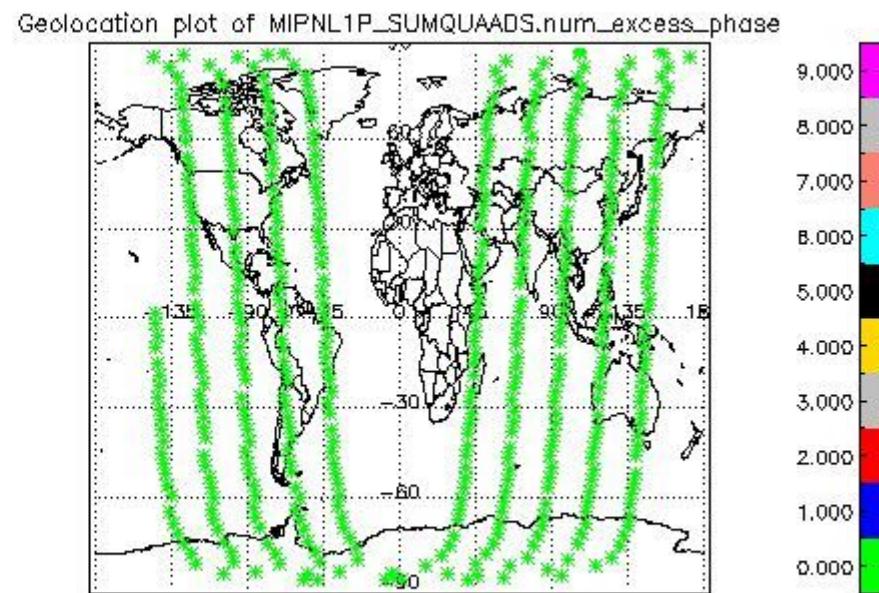
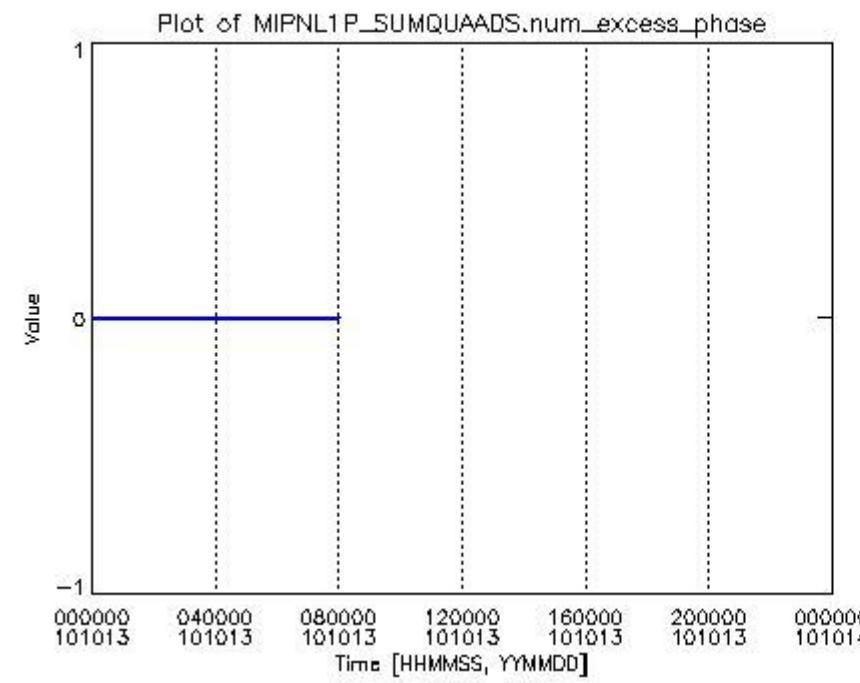
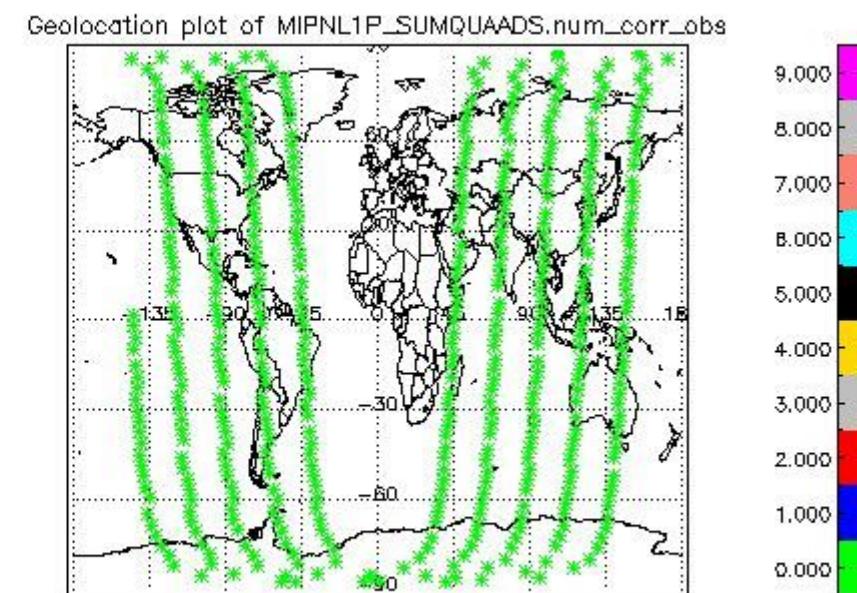
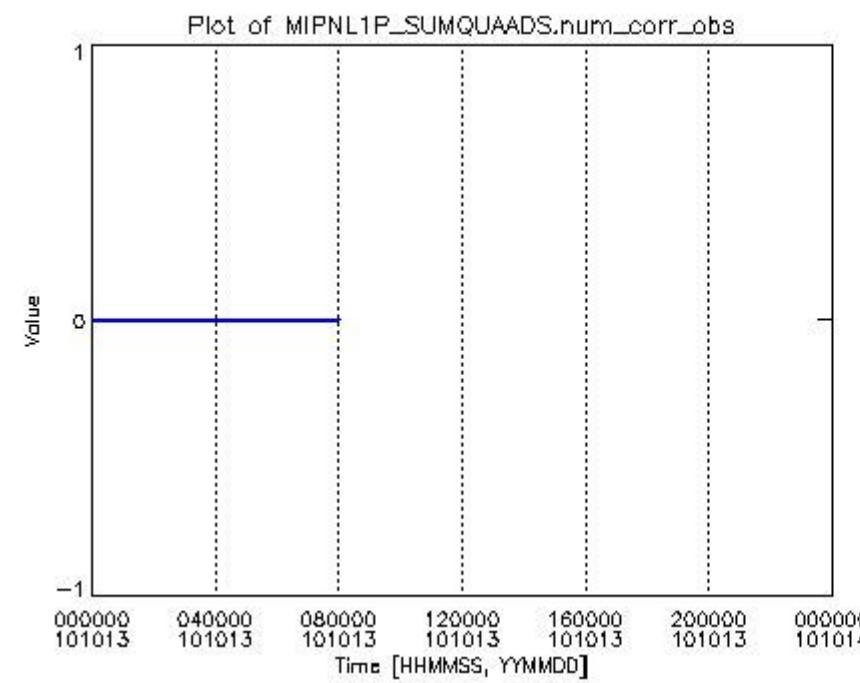
Bar plot of MIPNL1P_SUMQUAADS.attach_flag

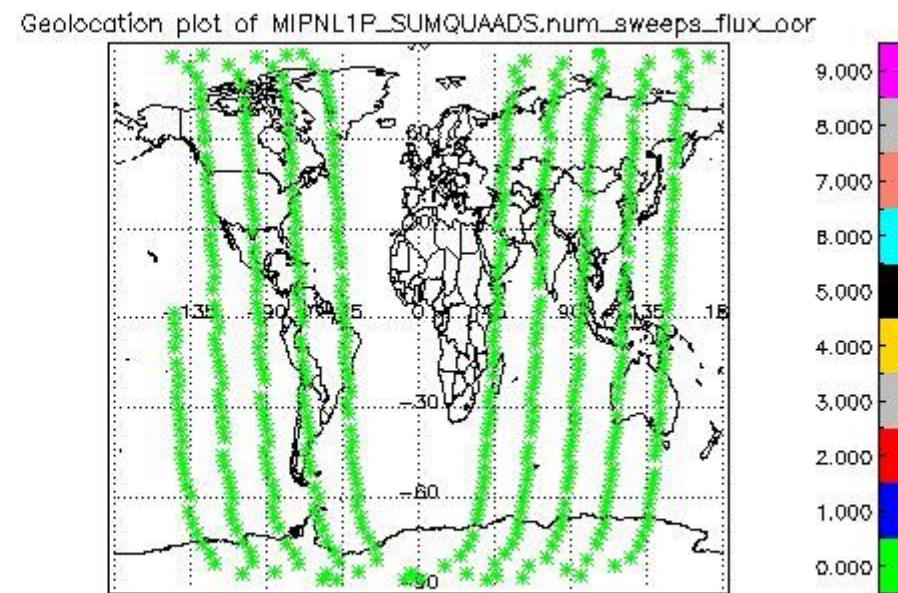
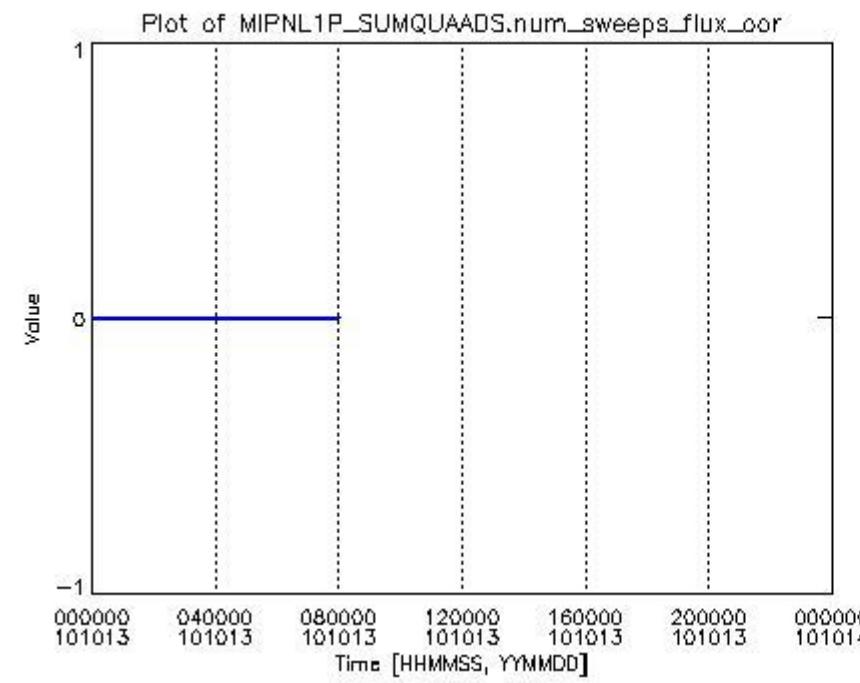
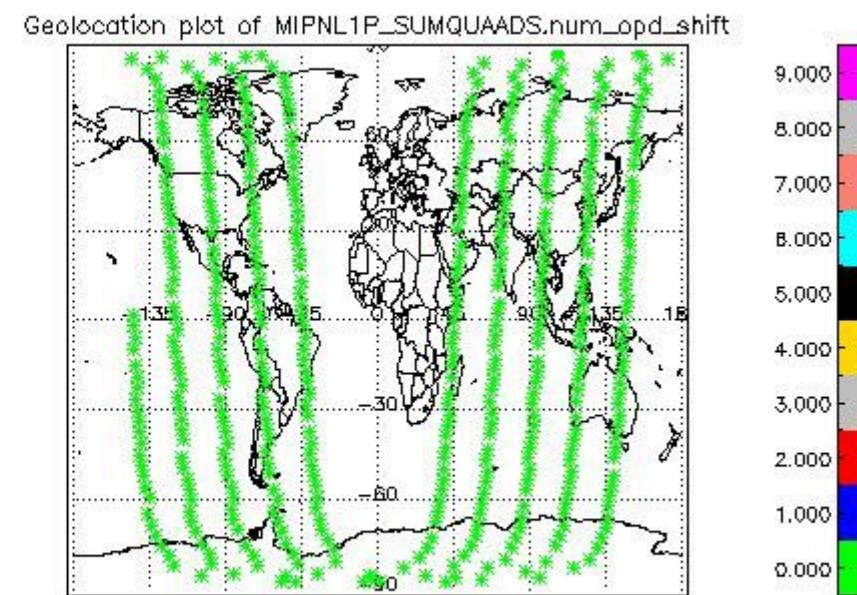
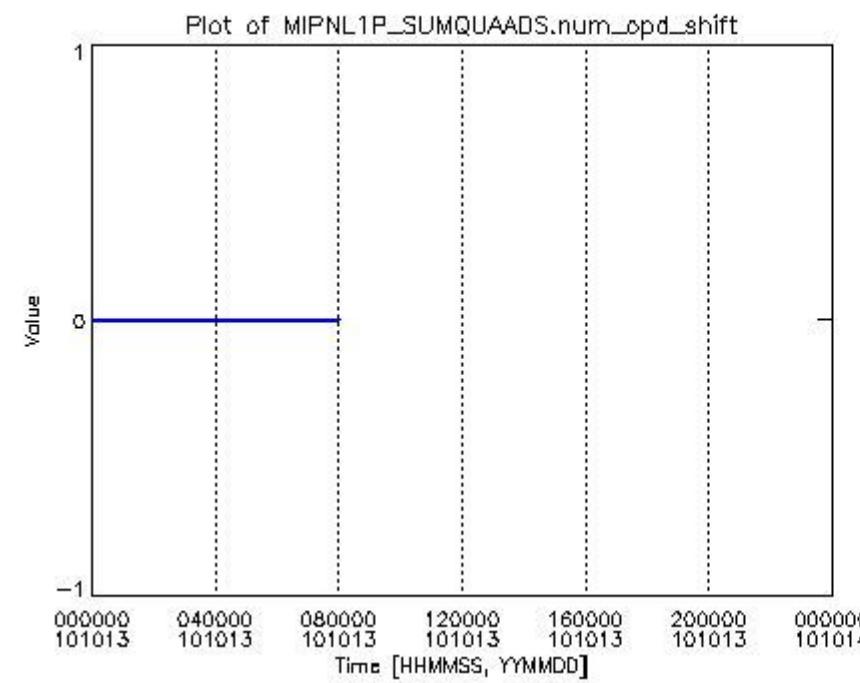


Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag



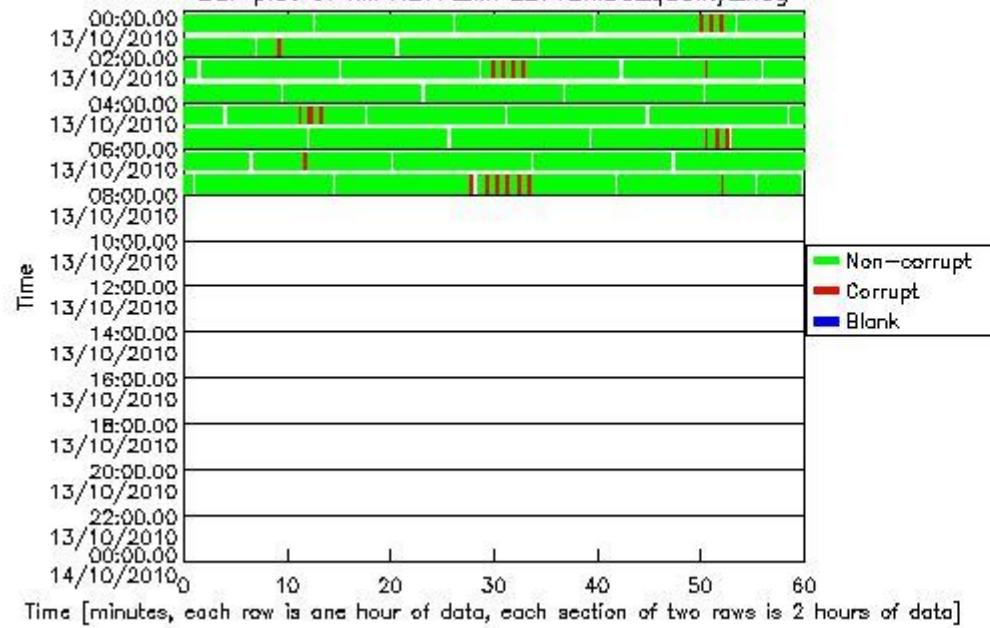




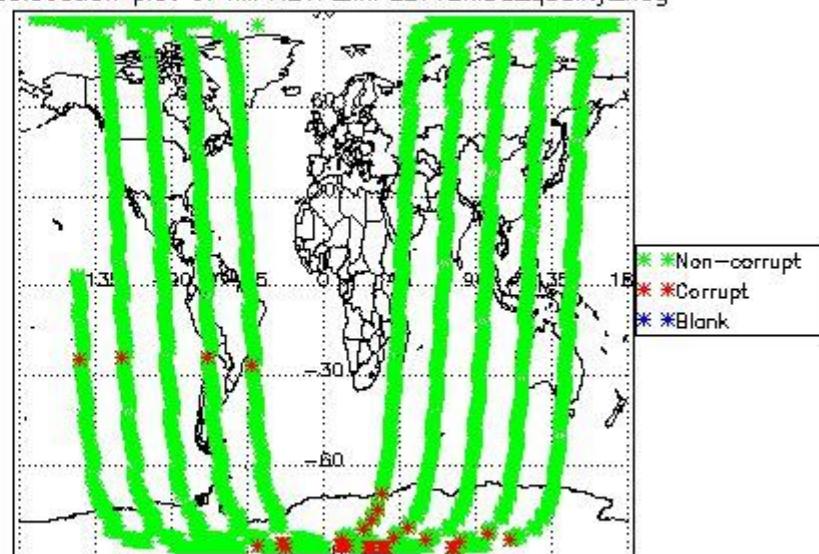


1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

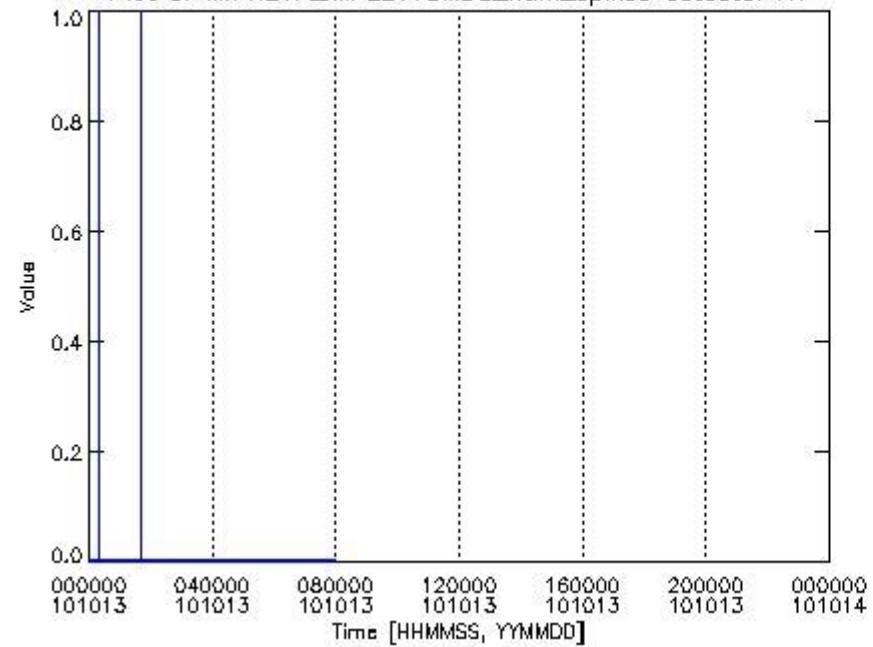
Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag



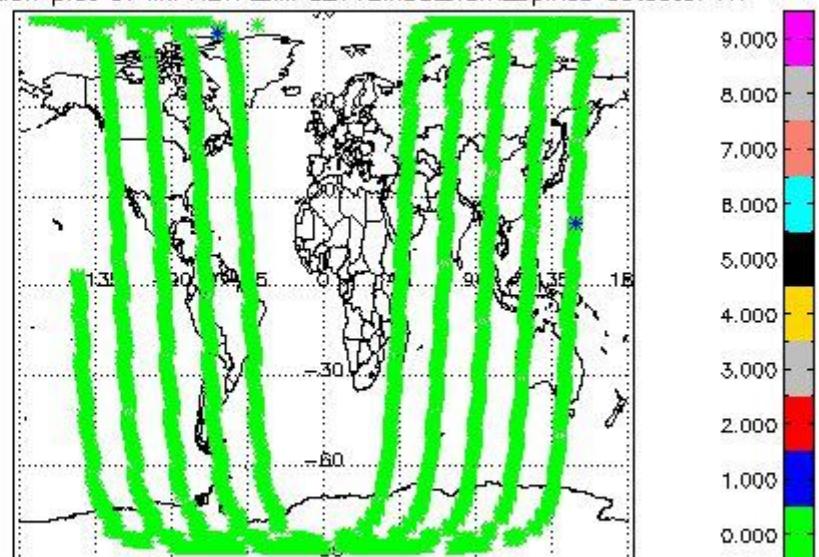
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag

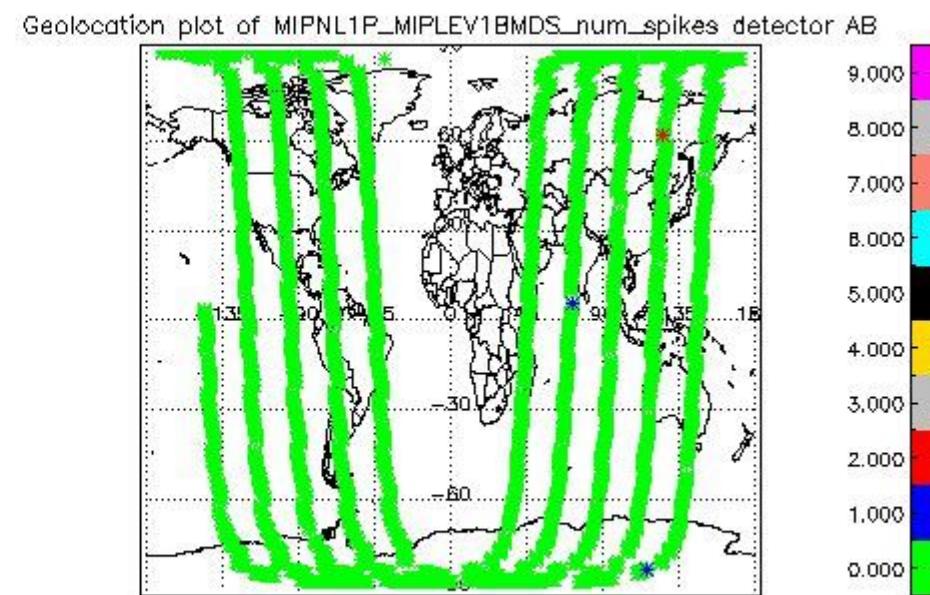
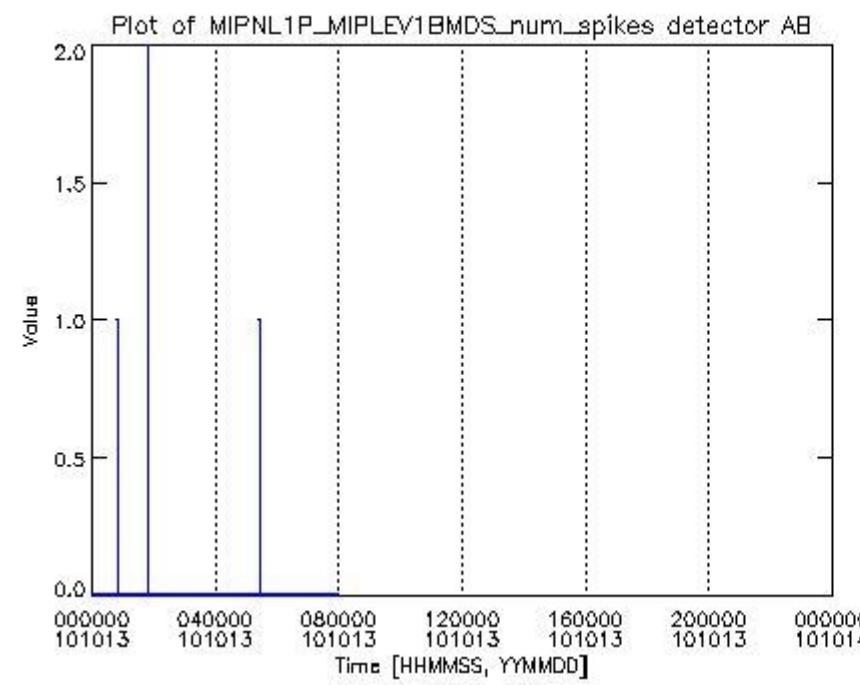
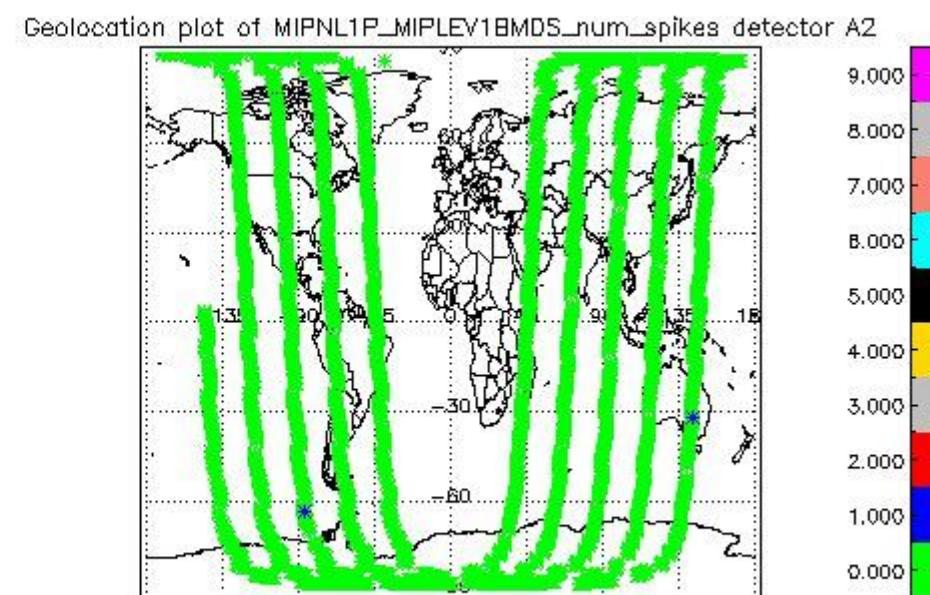
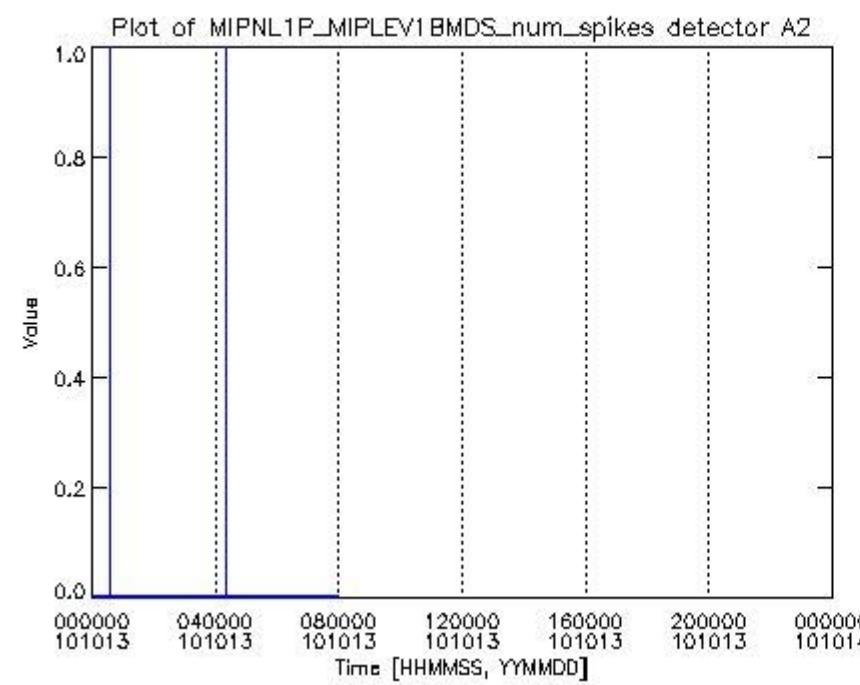


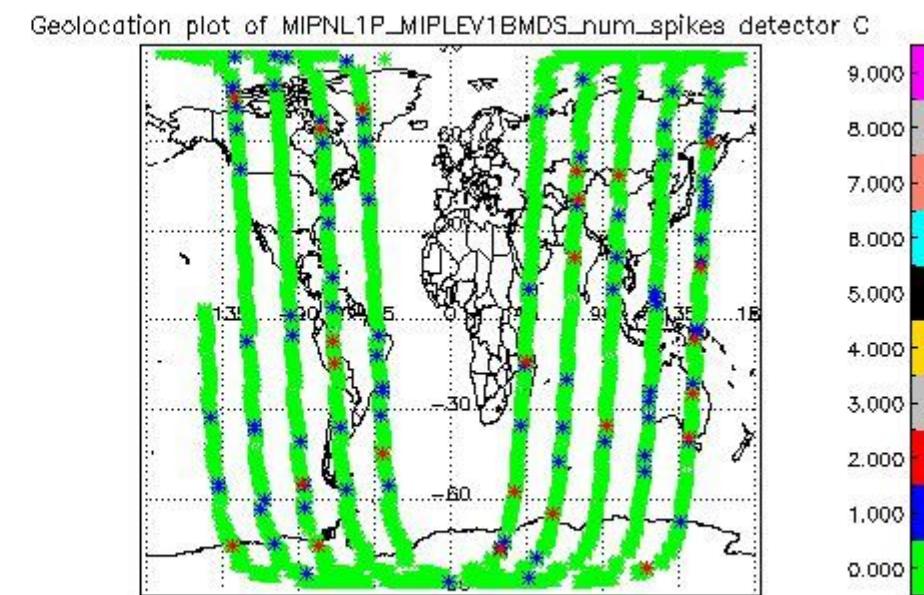
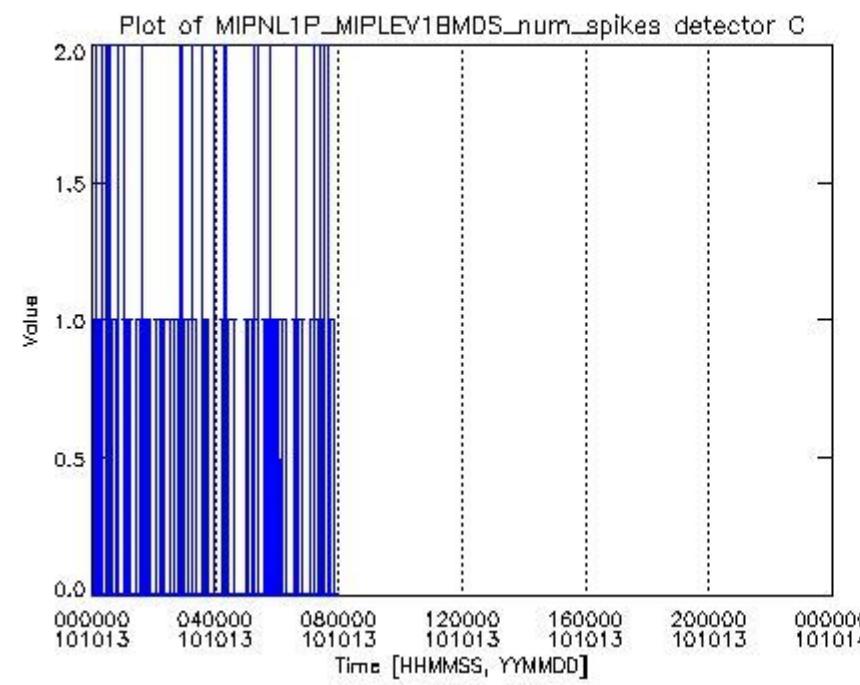
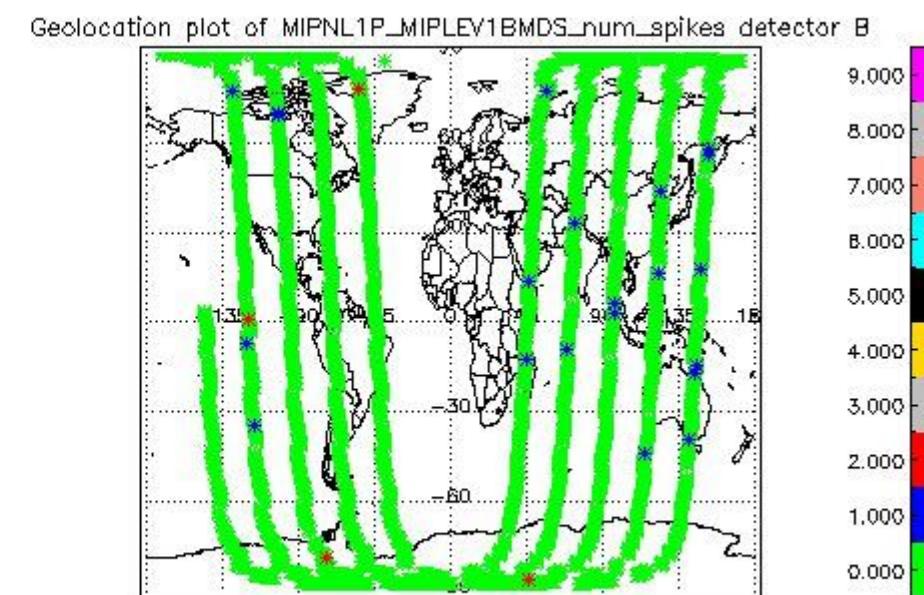
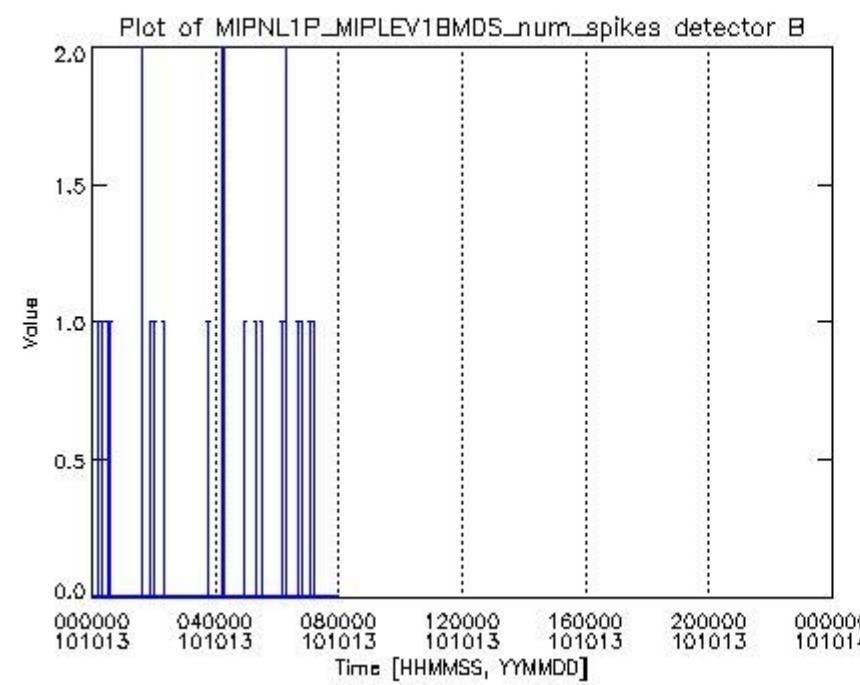
Plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1

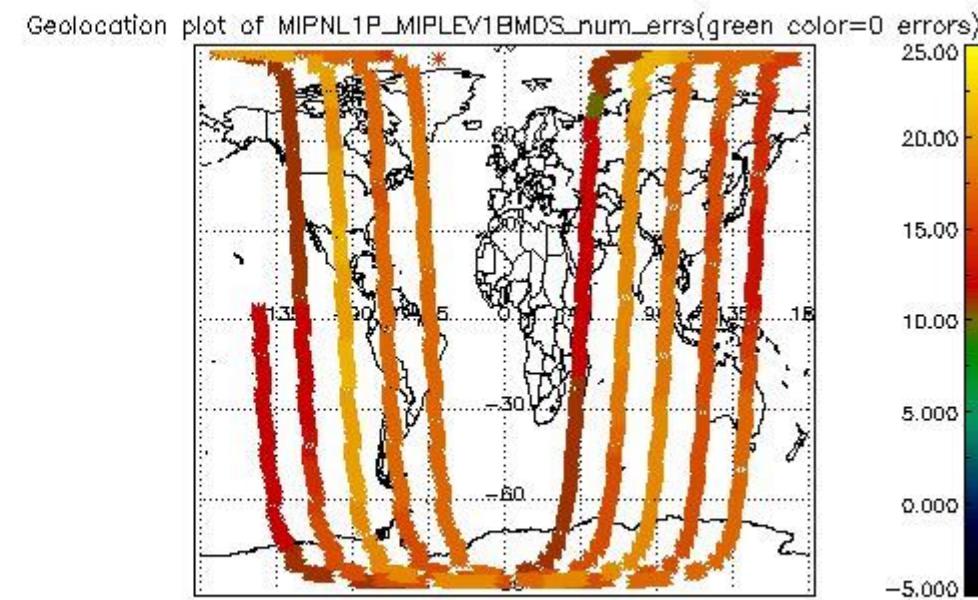
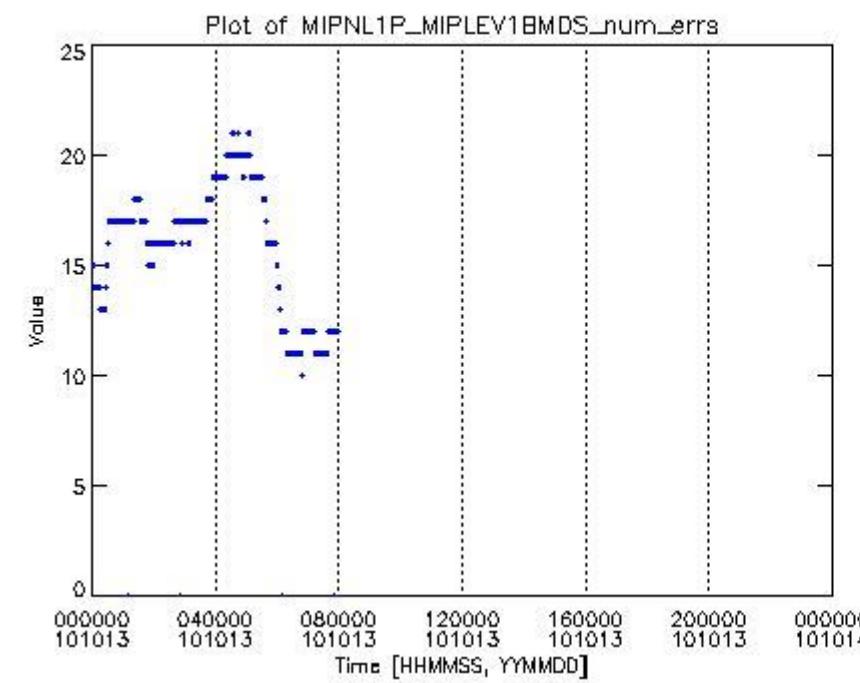
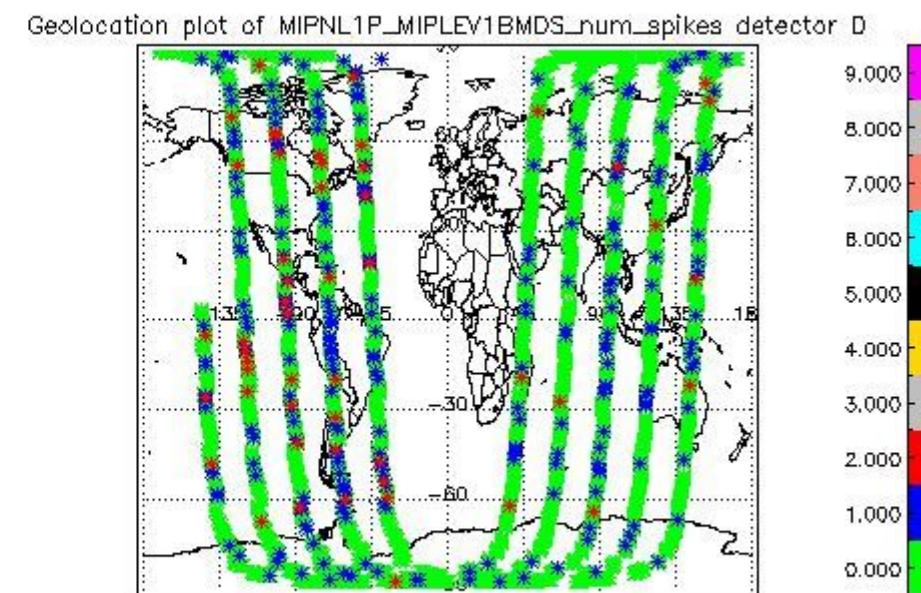
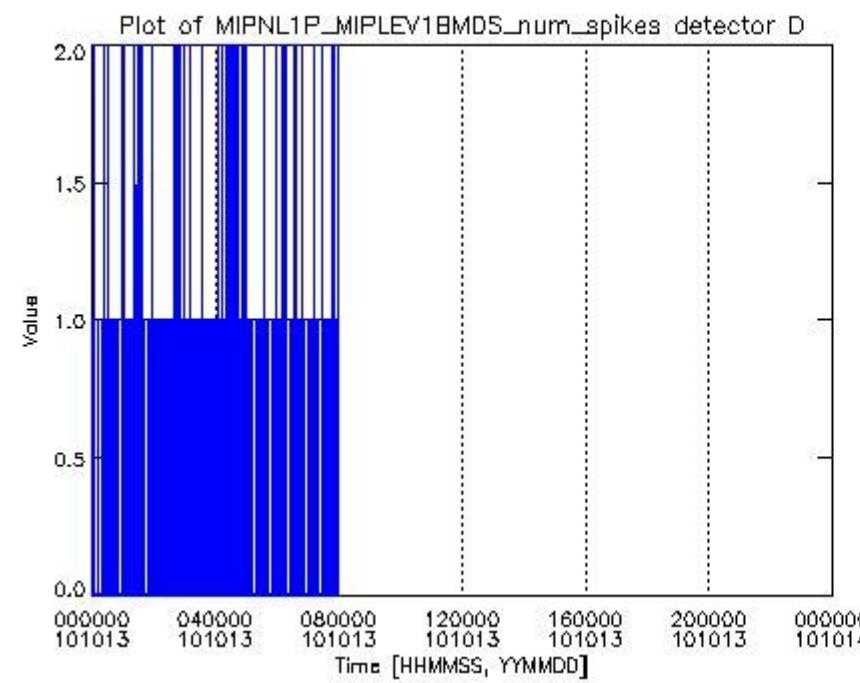


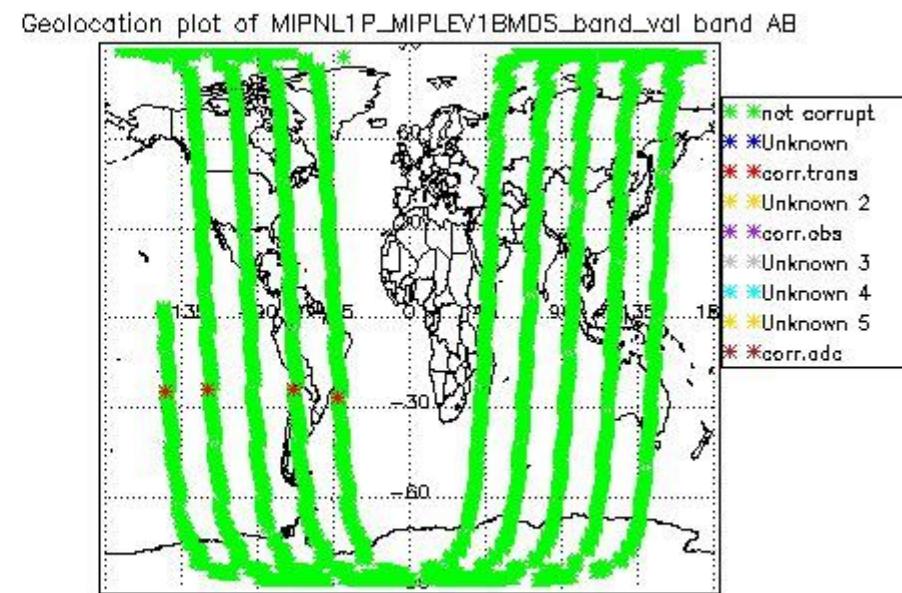
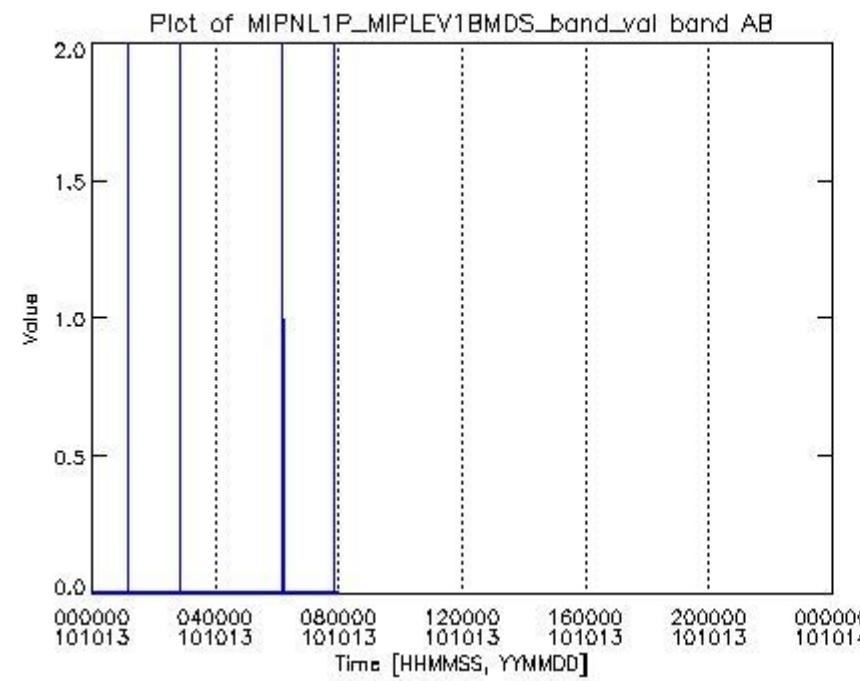
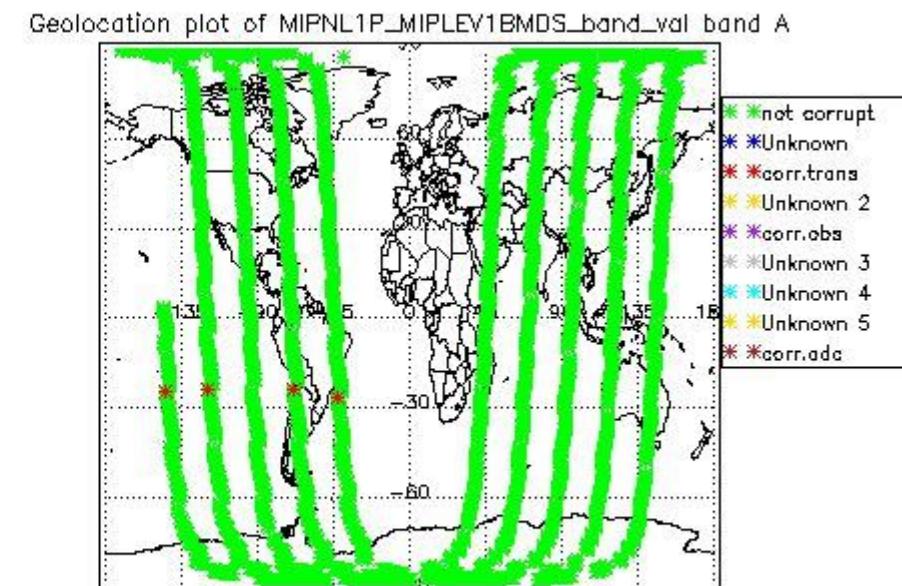
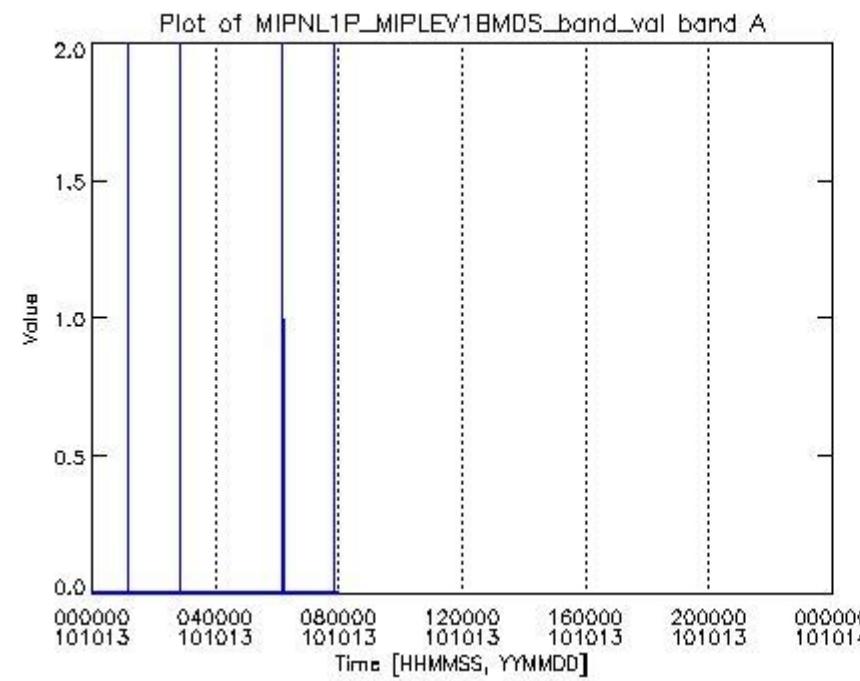
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1

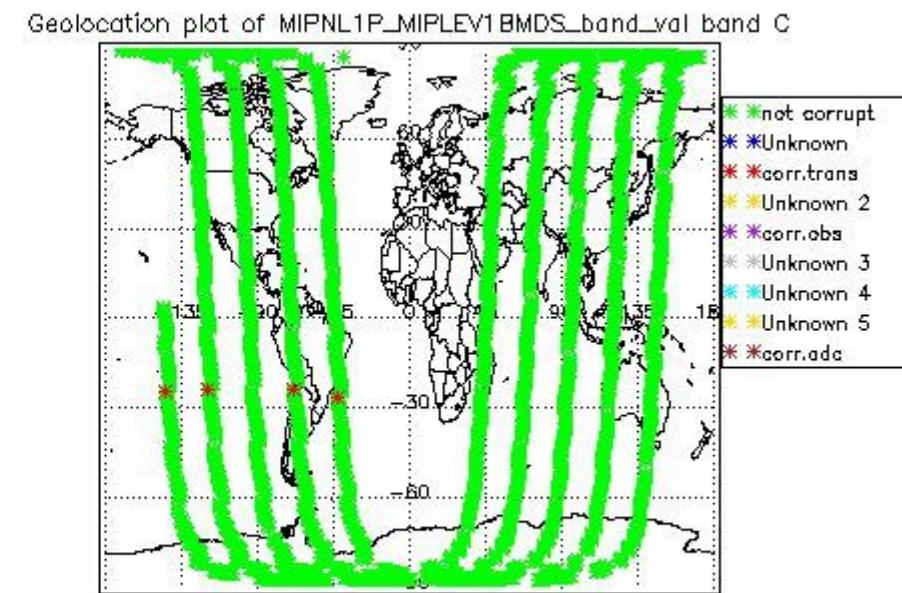
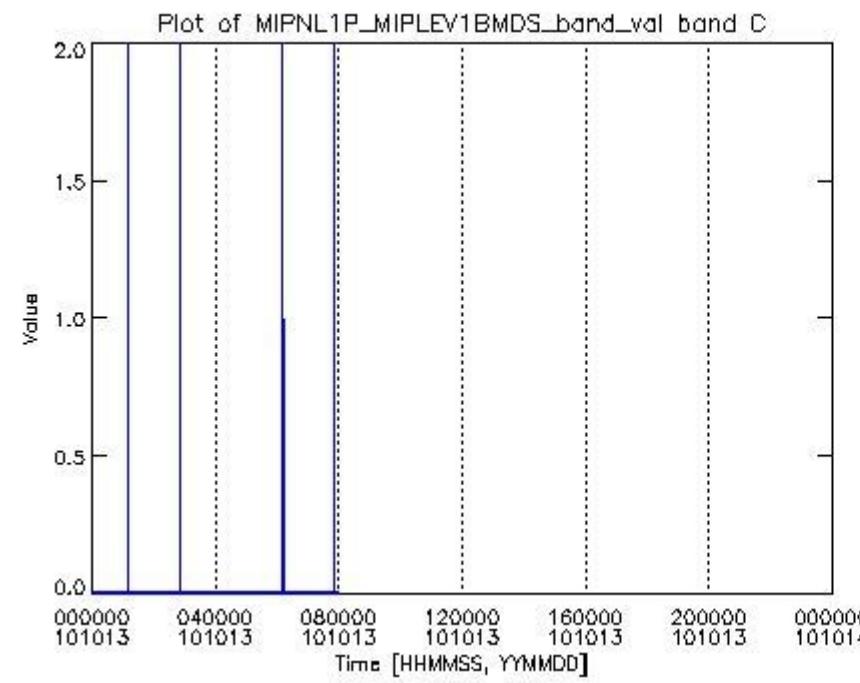
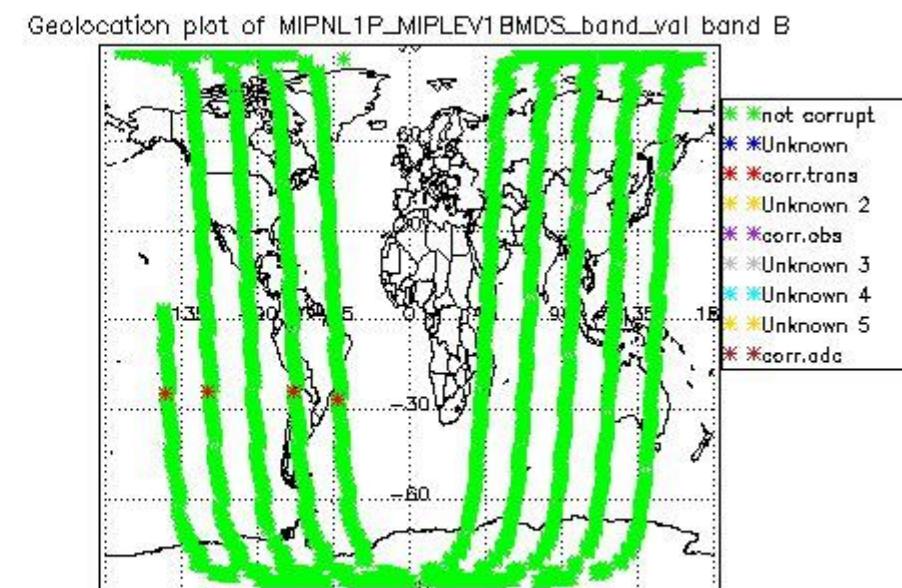
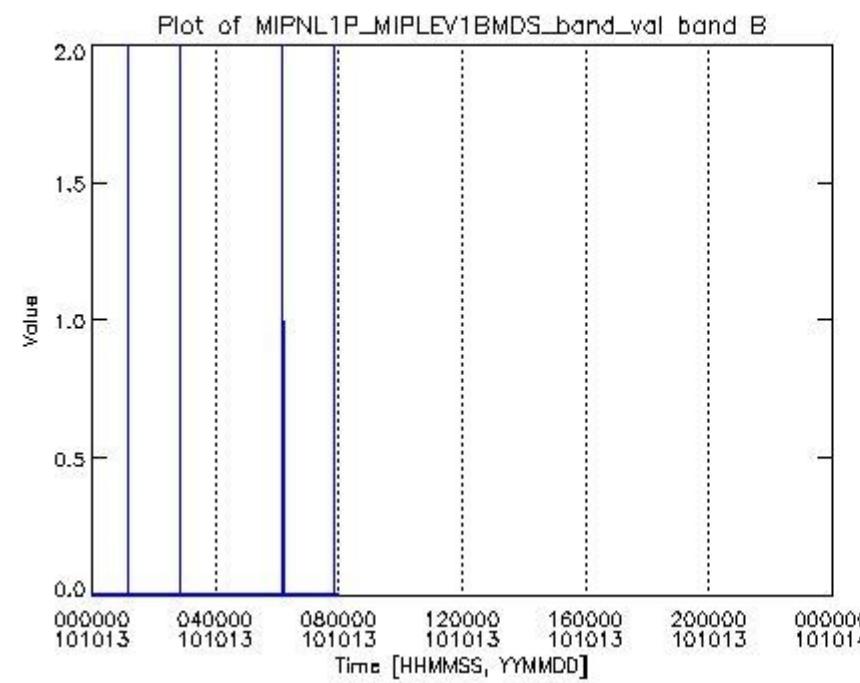


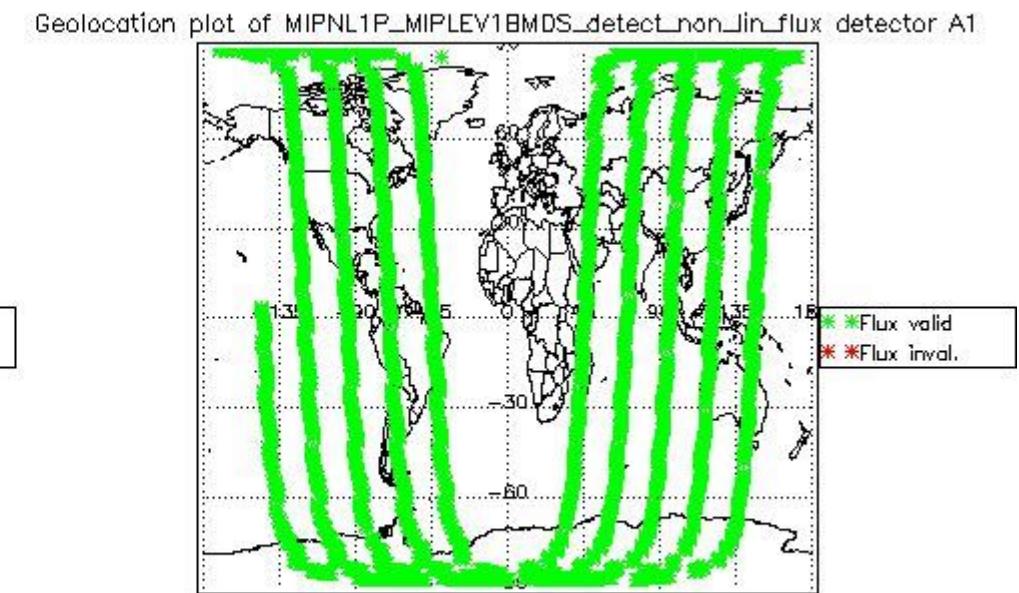
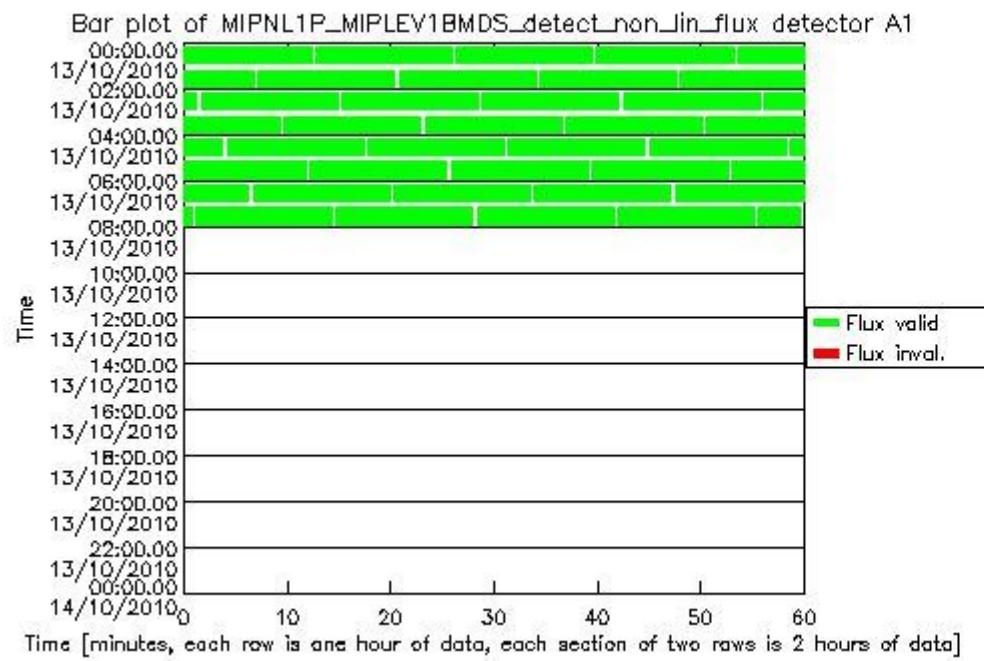
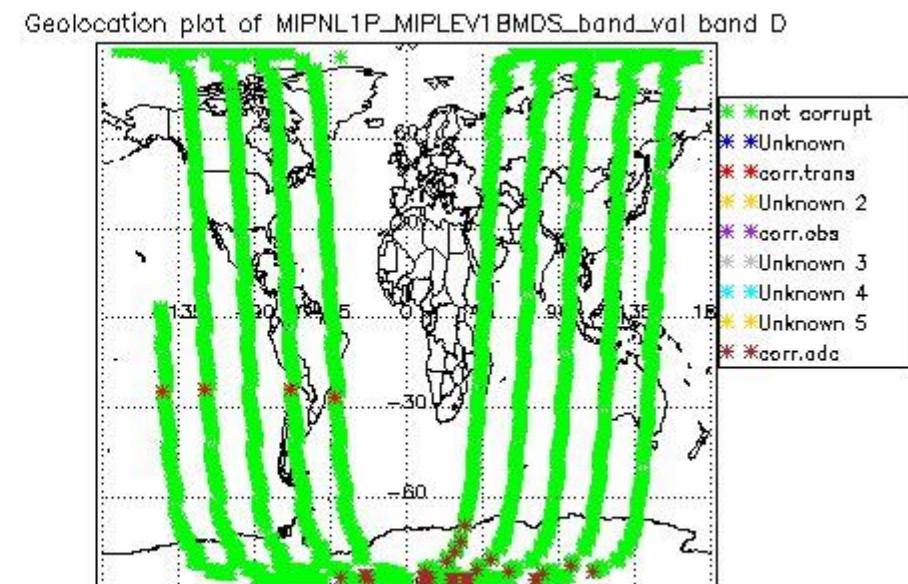
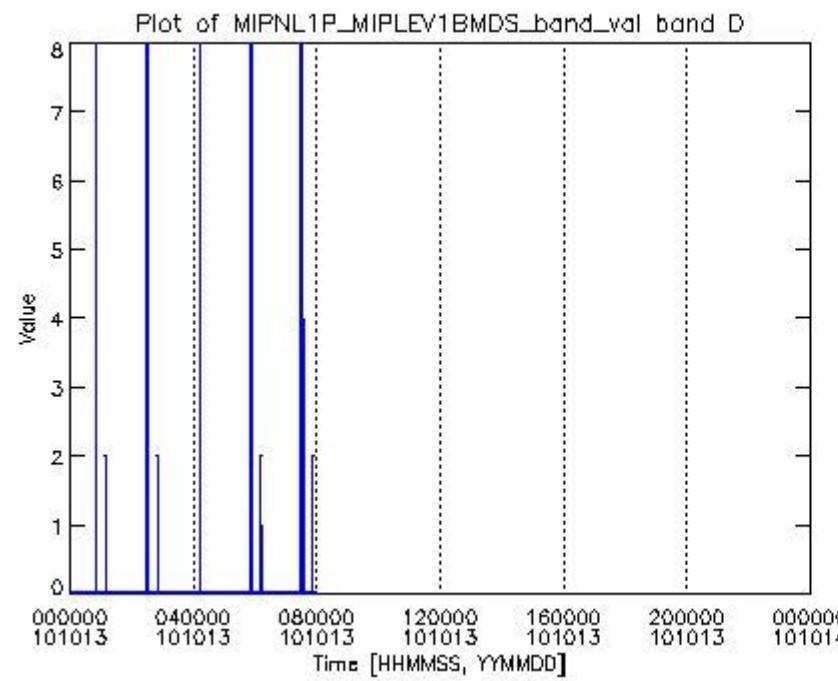


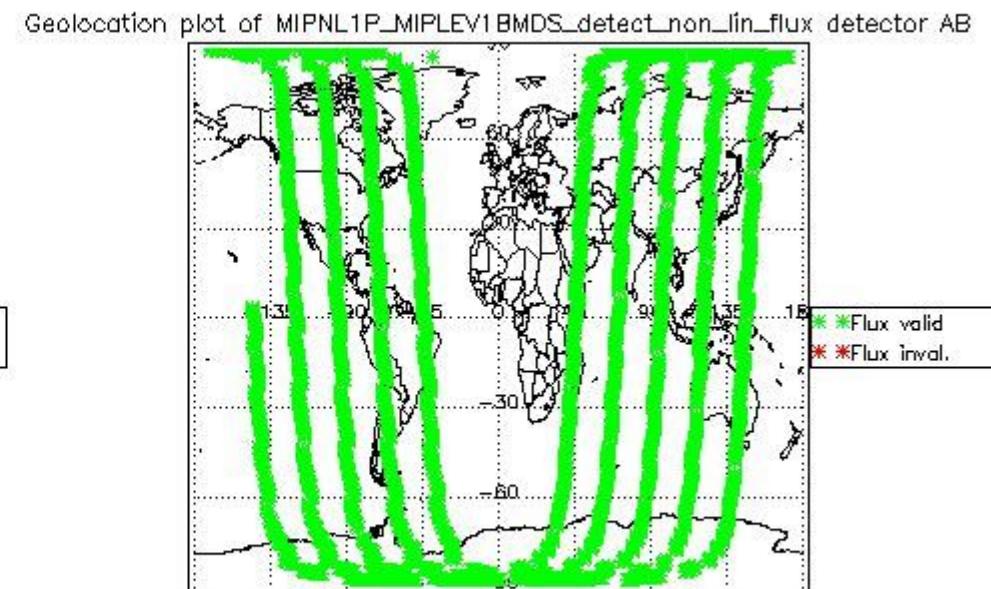
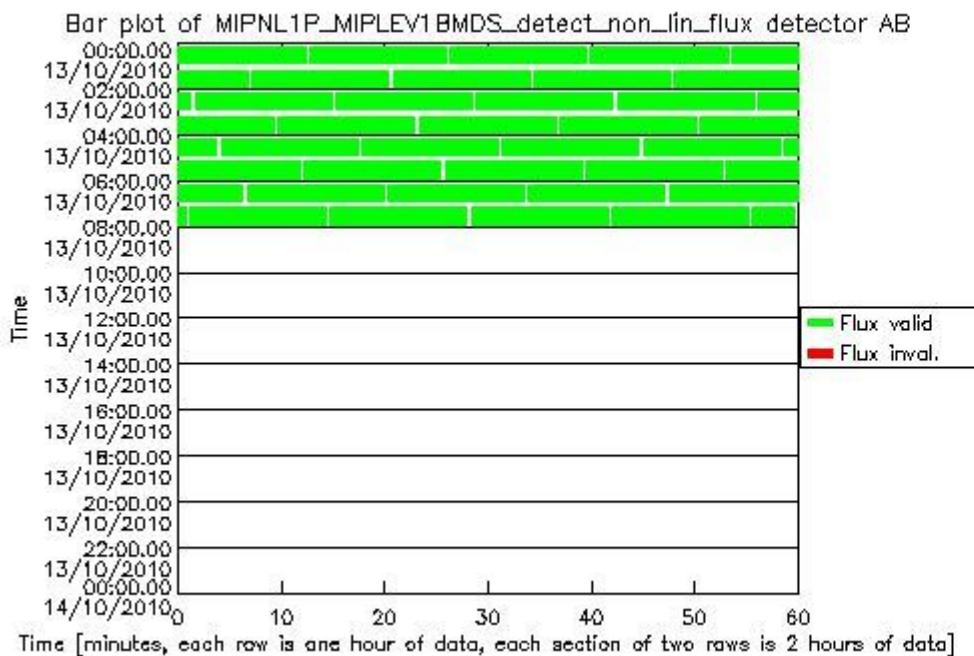
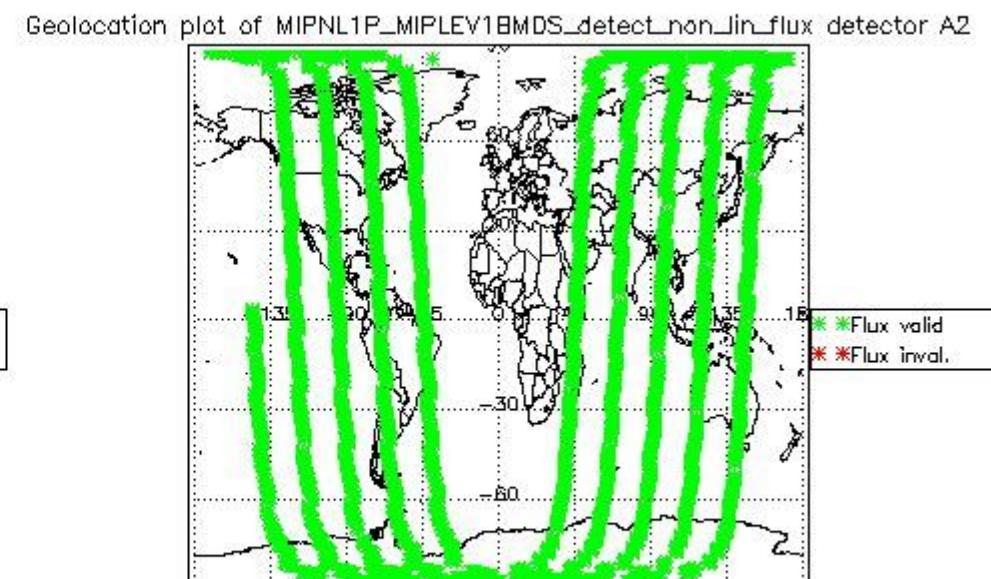
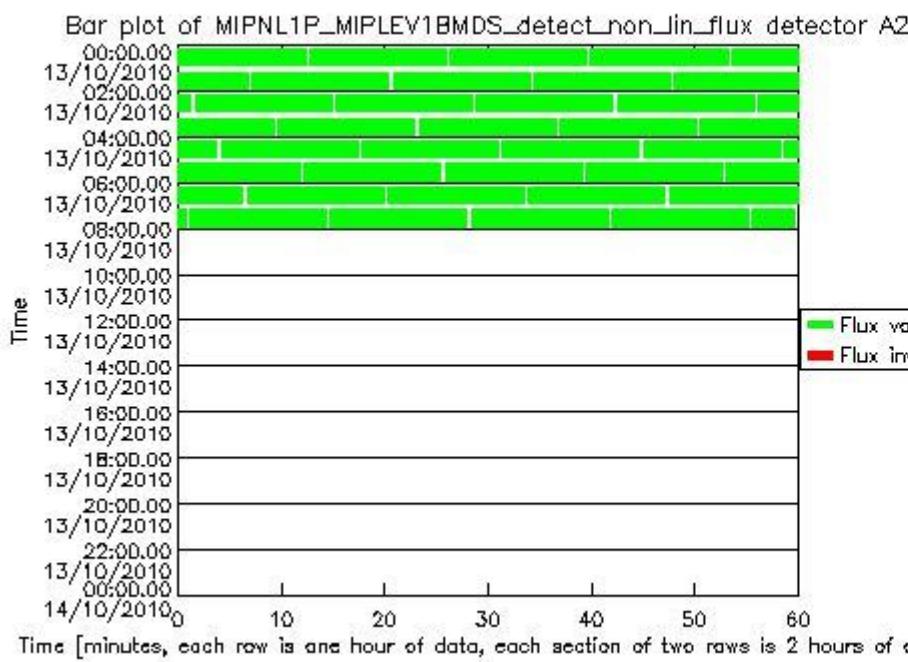


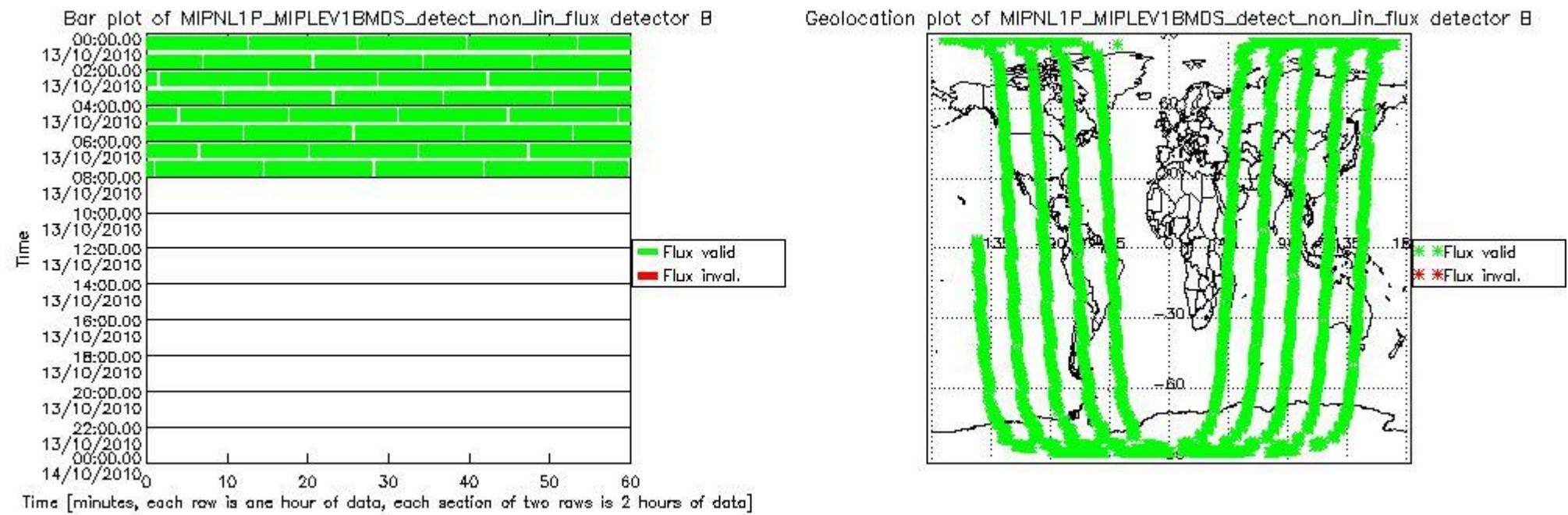












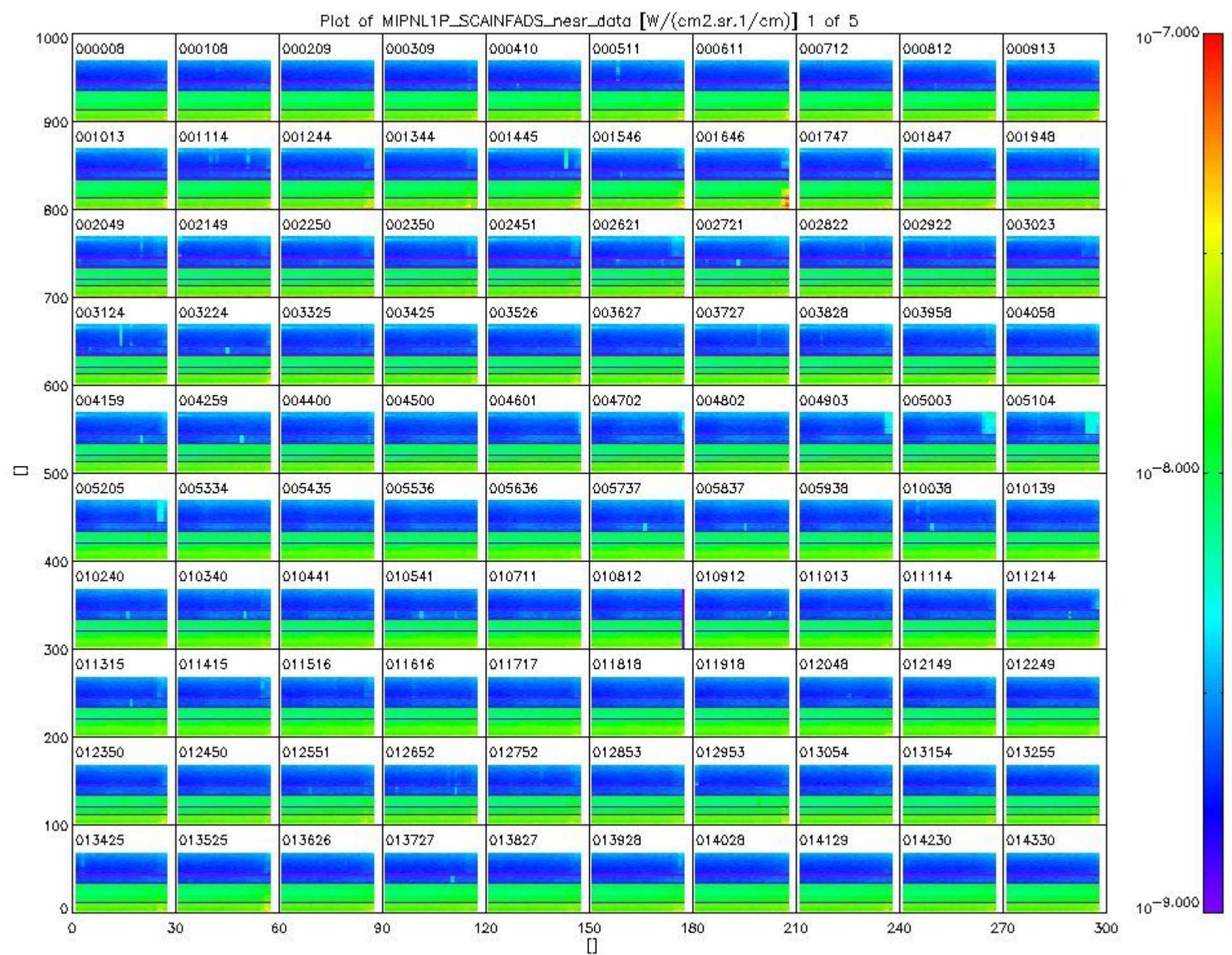
1.2.3 Scan information ADS

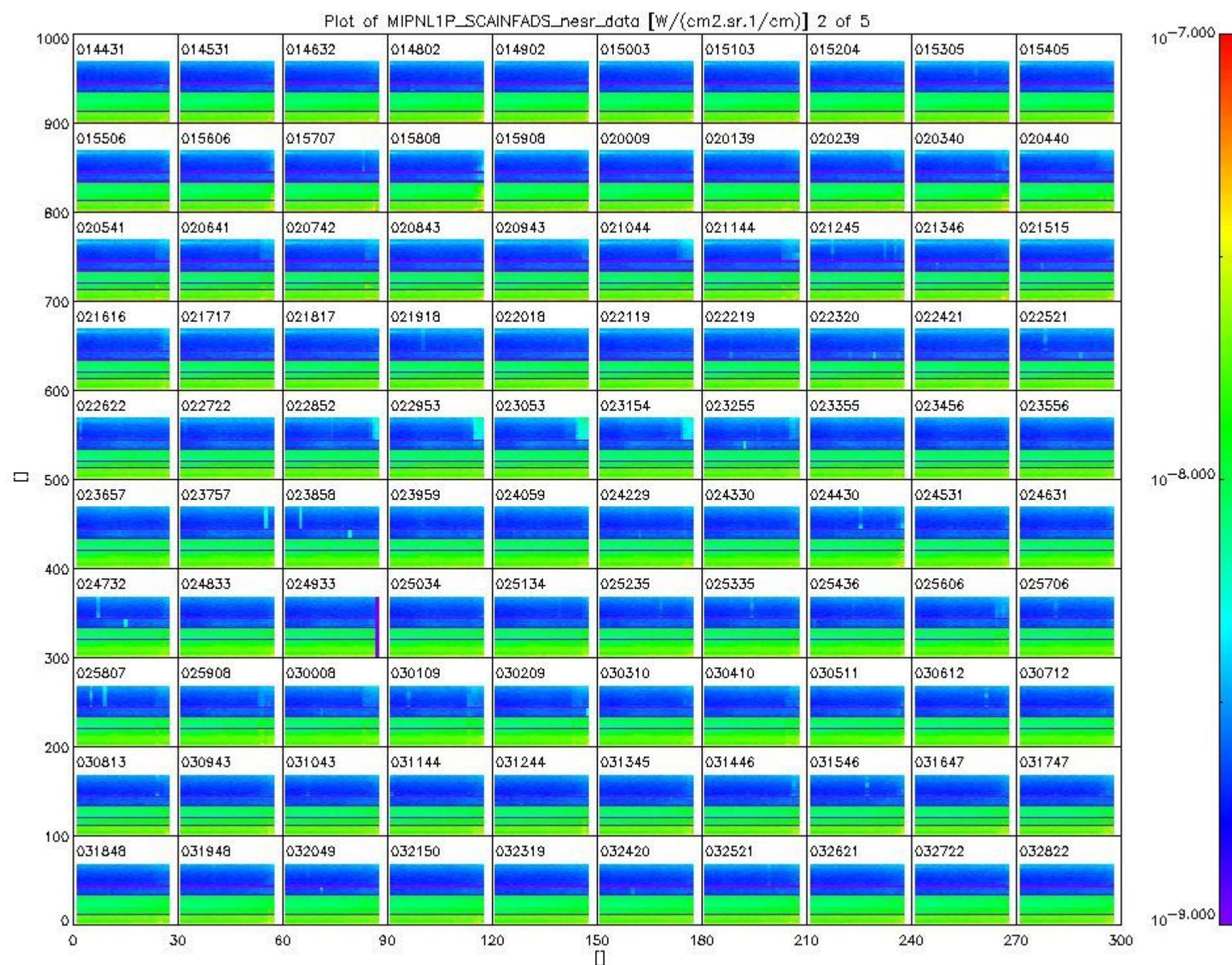
The following plots each contain 100 squares. Each square contains one NESR-scan (from MIPNL1P_SCAINFADS_nesr_data).

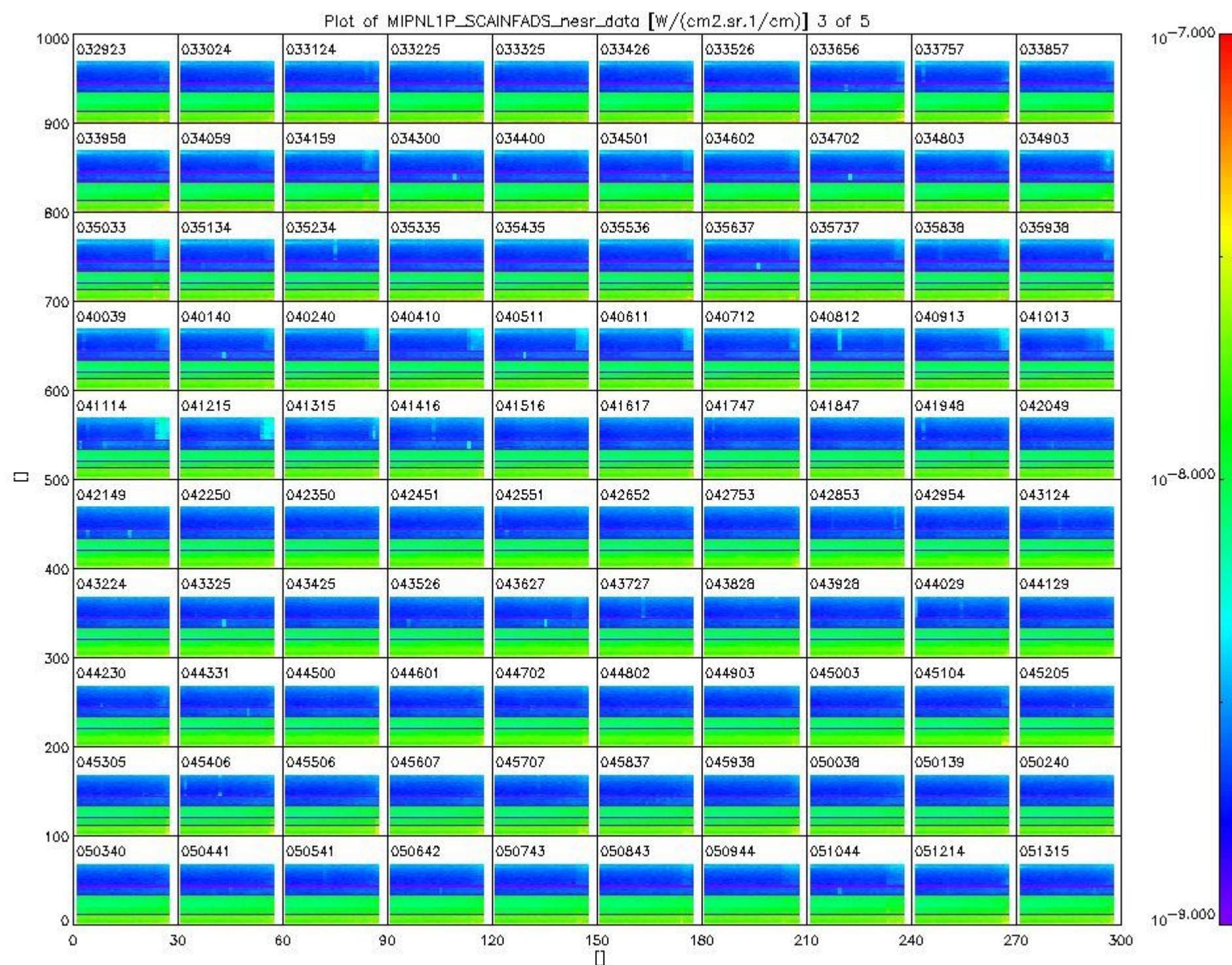
The horizontal axis represents the sweep ID (starts at 1).

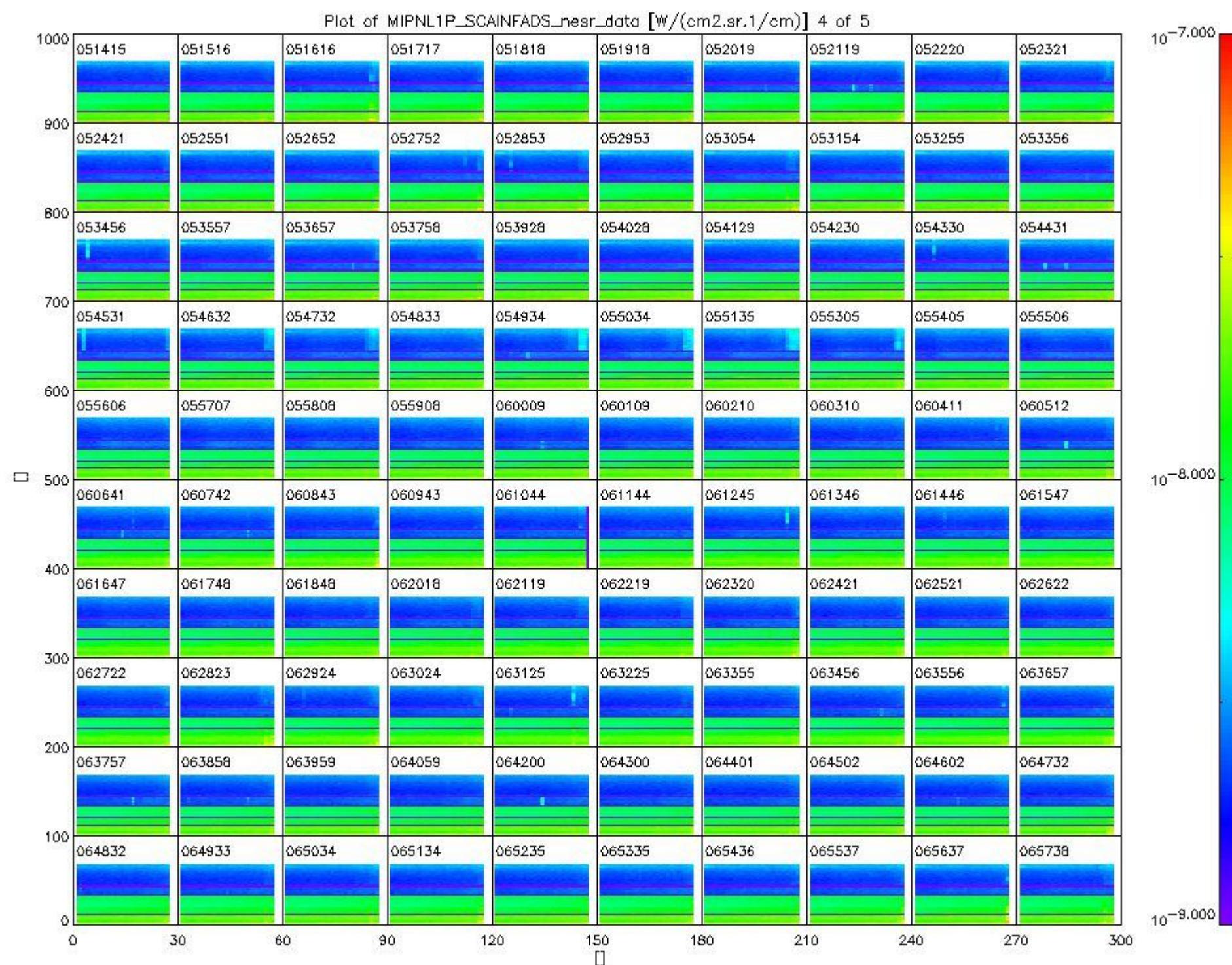
The vertical axis shows the NESR data point index (starts at 0), which relates to wavenumber.

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.







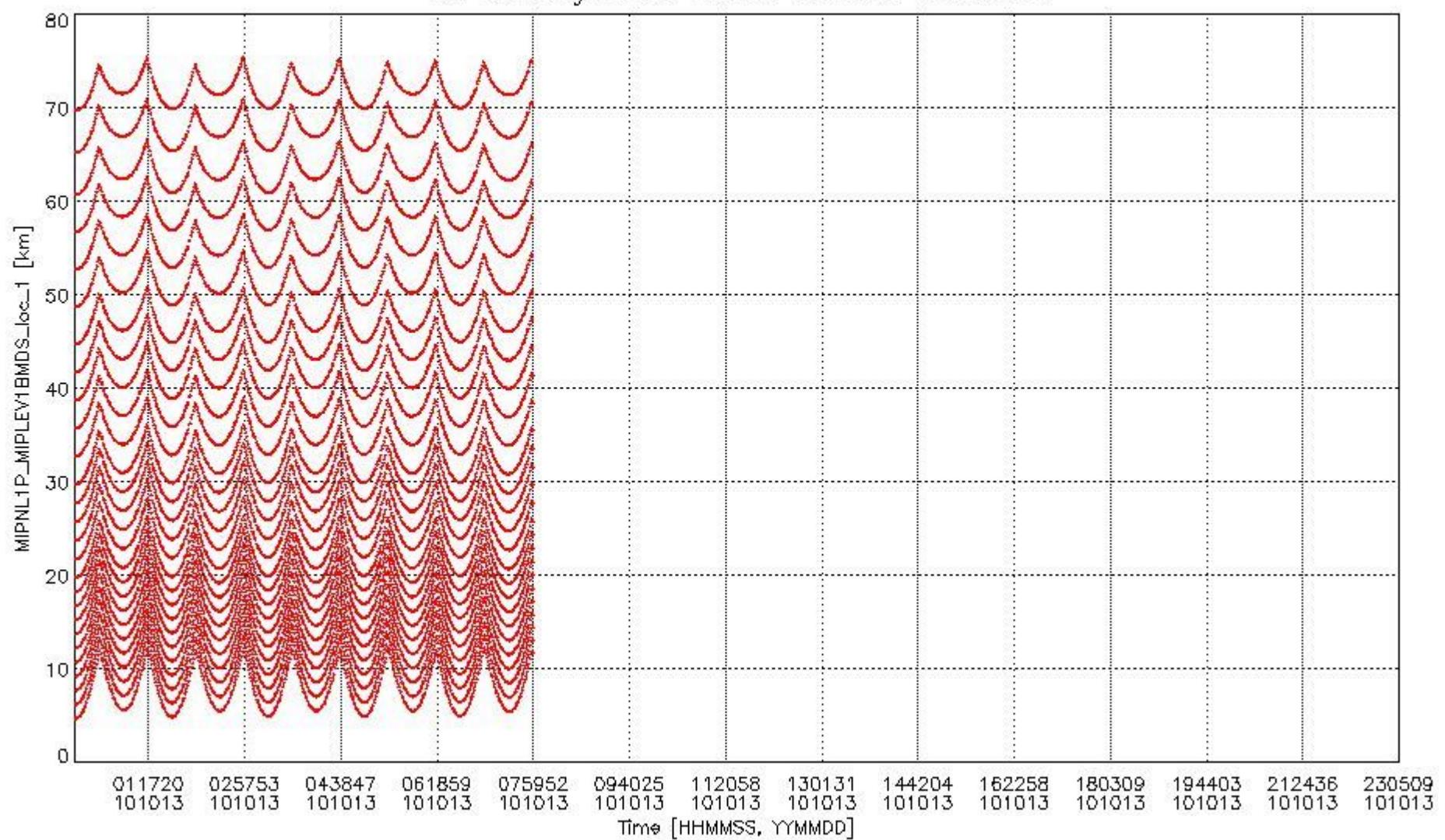




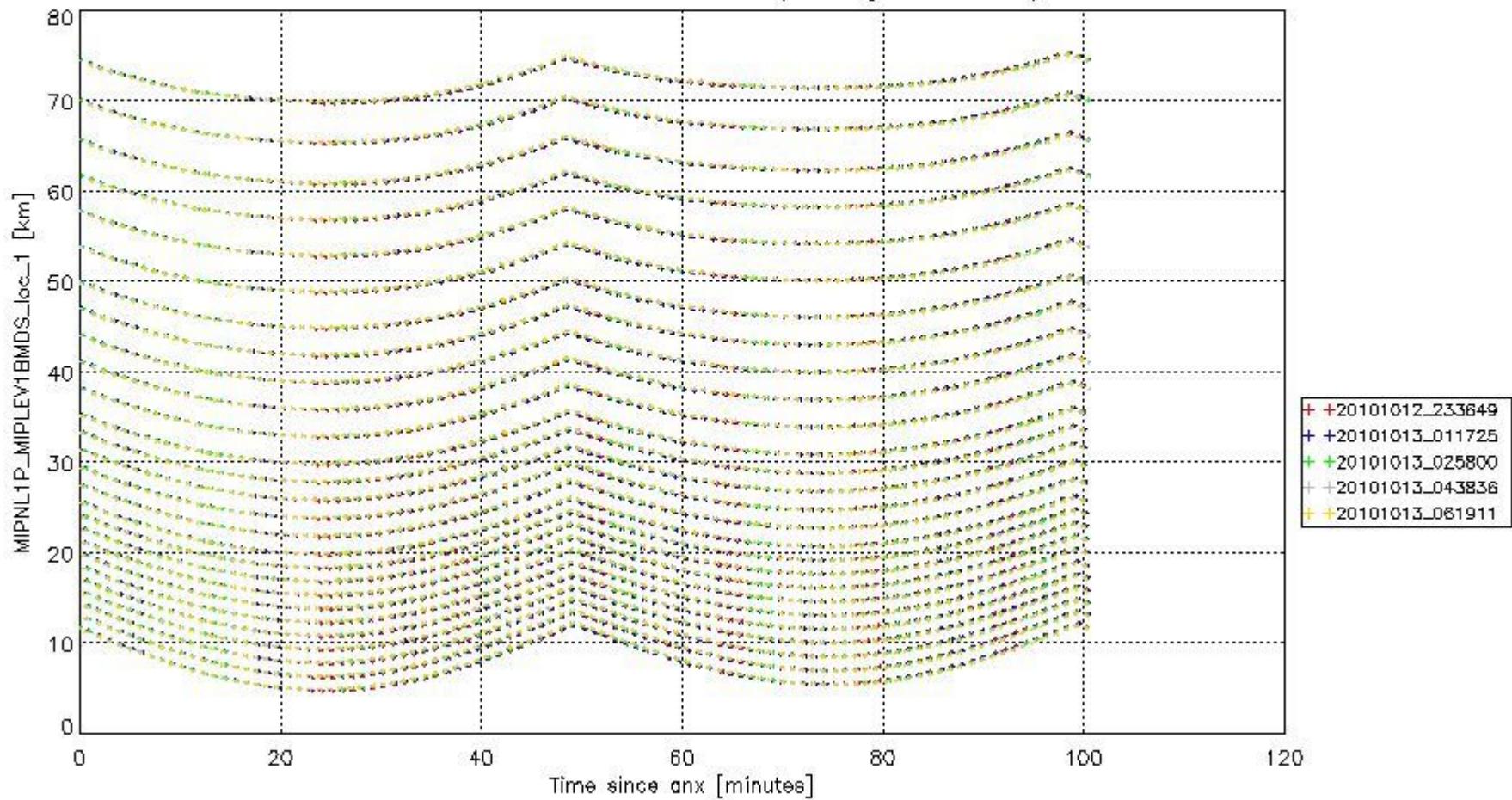
1.3 Physical Quality Indicators

1.3.1 Tangent altitude

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against time.
The vertical grid lines indicate estimated anx events.



Plot of MIPNL1P_MIPLEV1BMDS_Loc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).



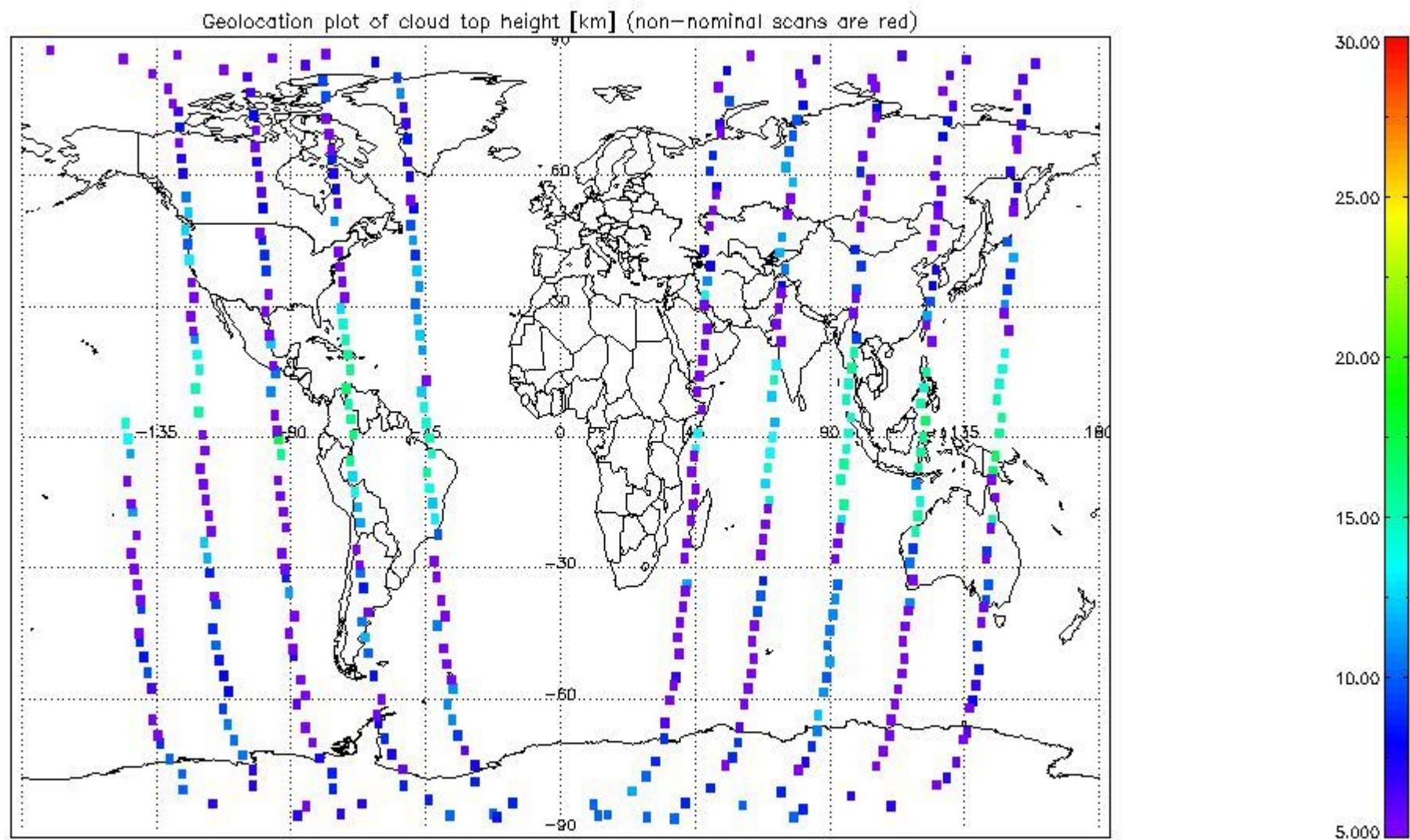
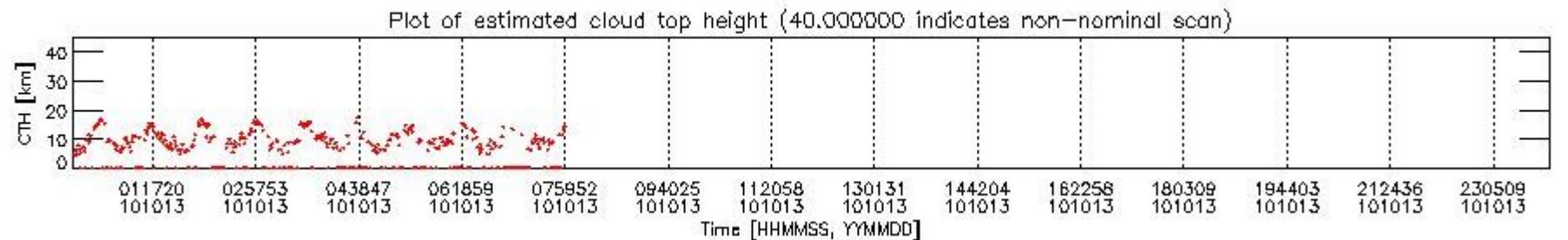
1.3.2 Cloud top height

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)

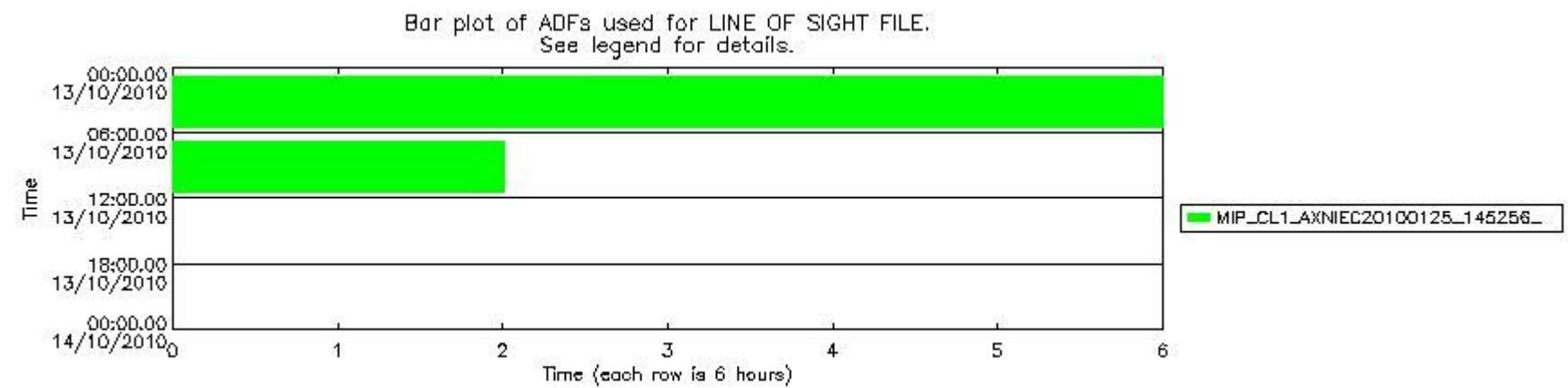
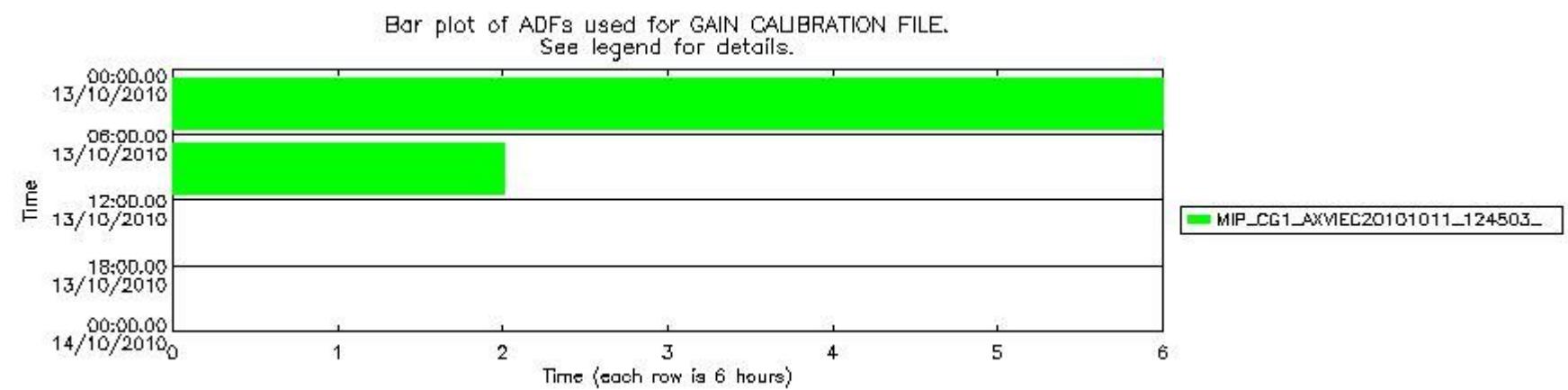
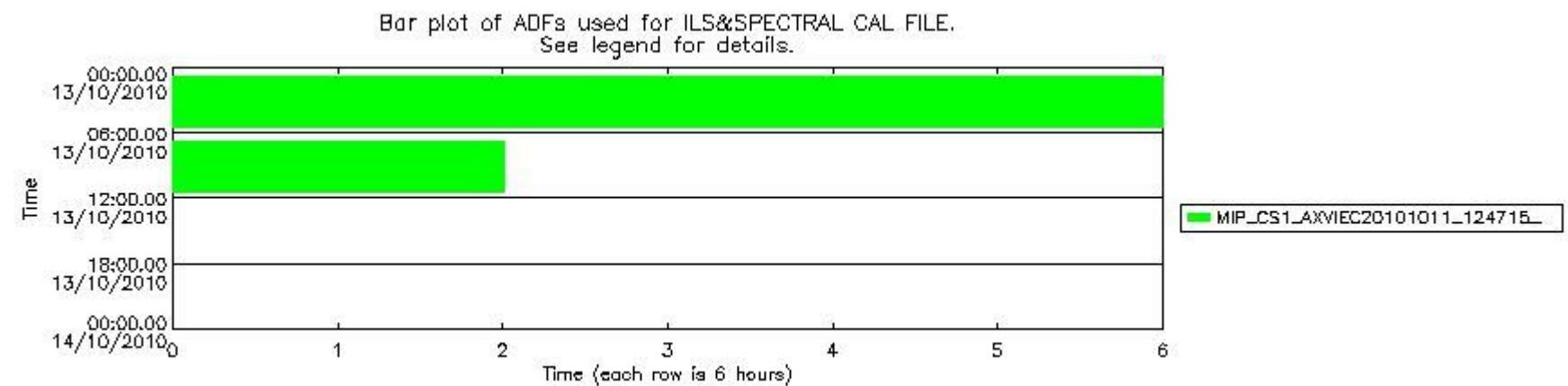
Item	Value
Microwindow 1 description	Average of band A pixels for cloud top detection 1
Microwindow 2 description	Average of band A pixels cloud top detection 2
cloud index threshold (mw1/mw2)	1.8000000
Tangent height limit	40.000000

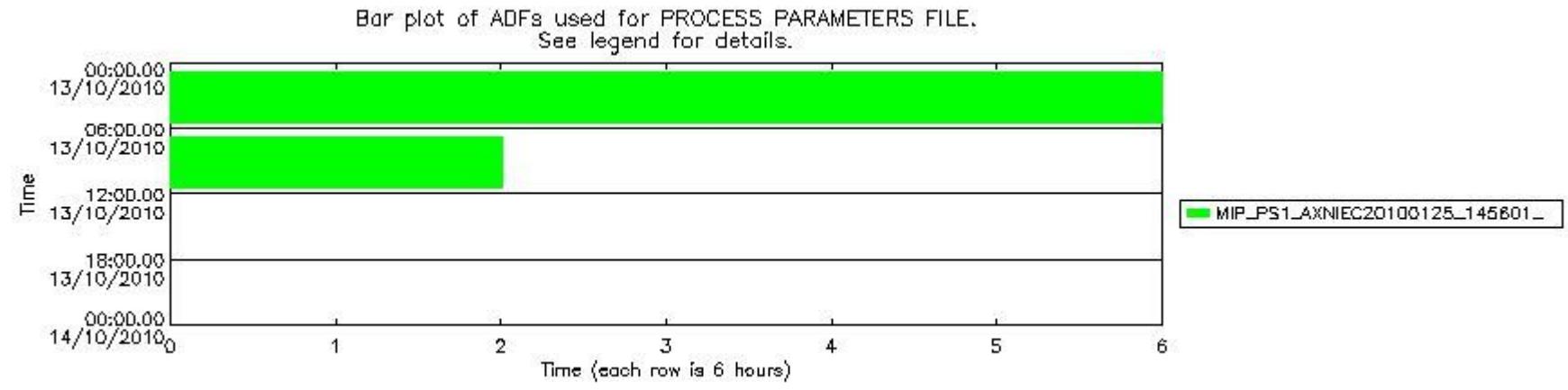
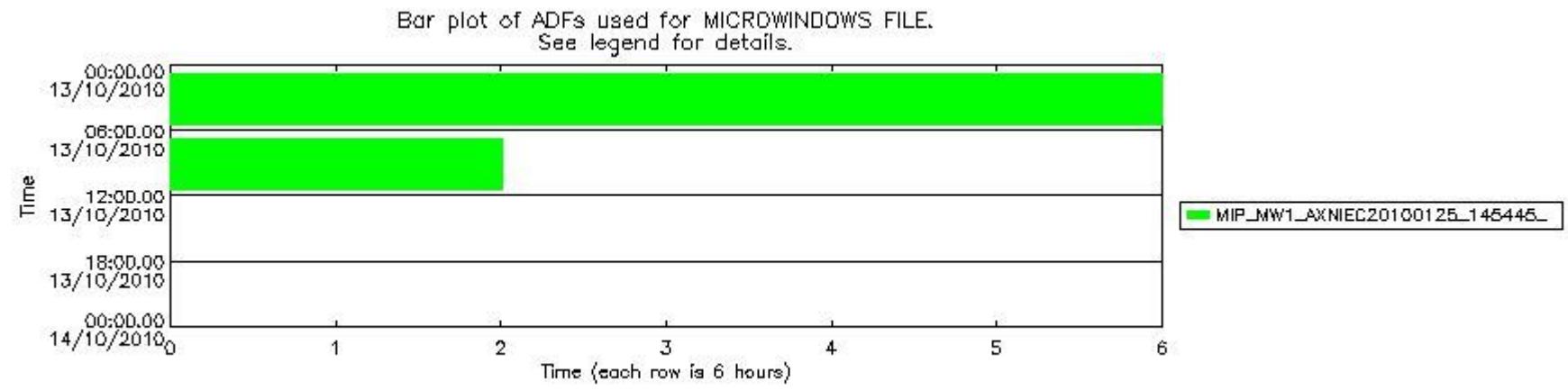
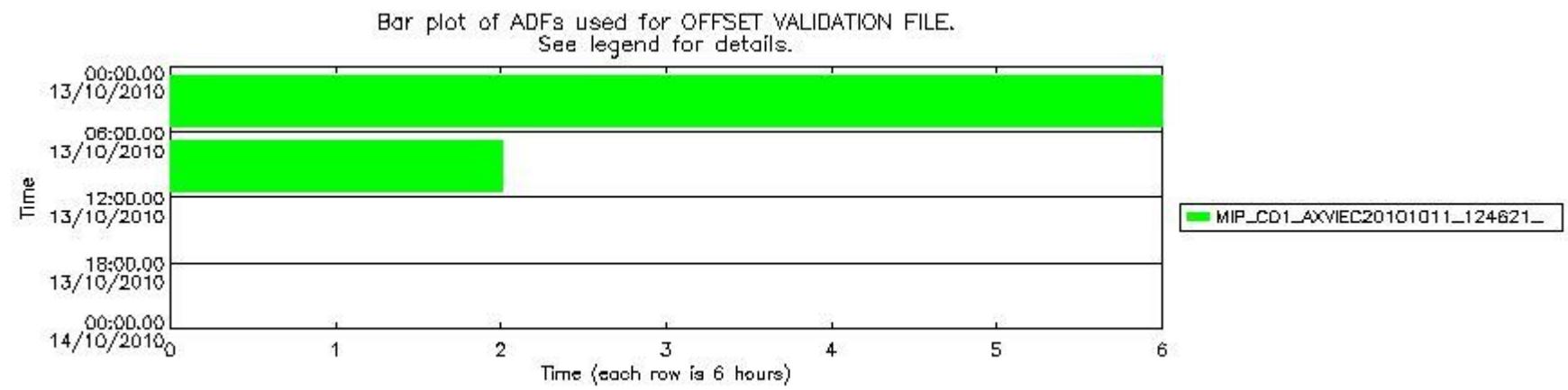
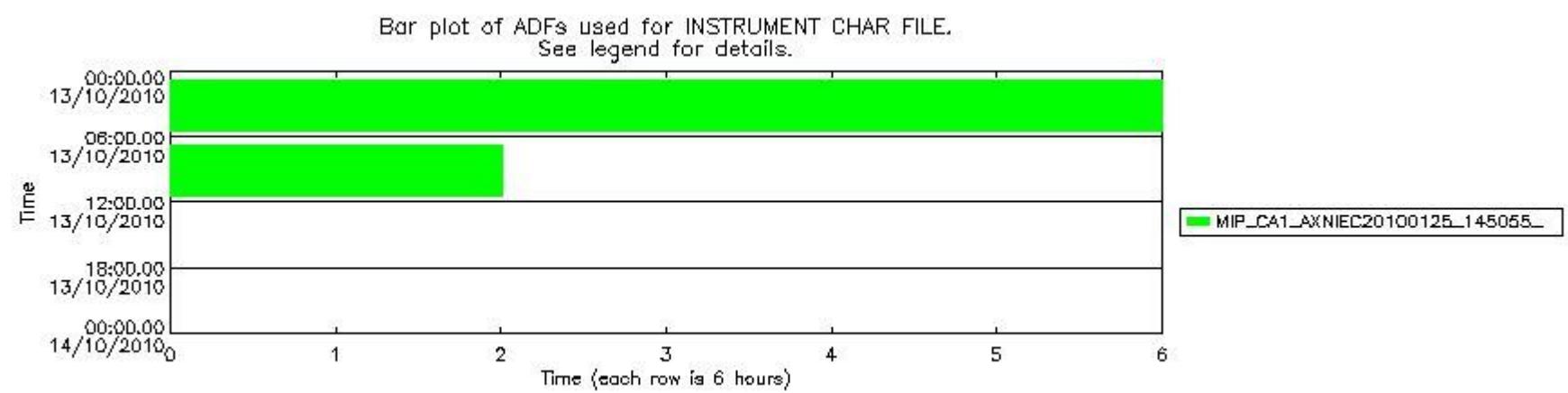


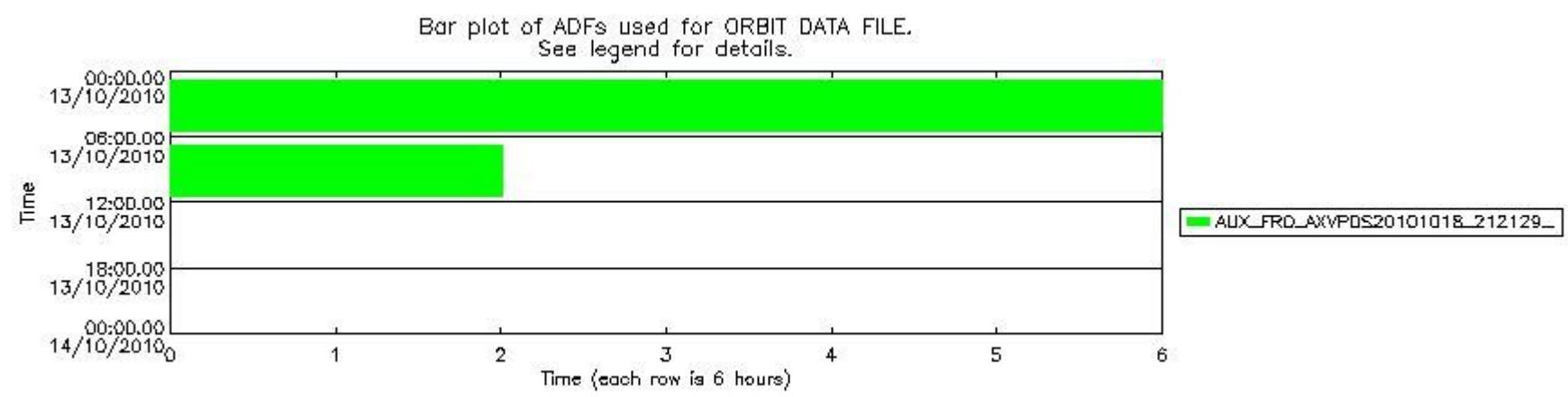
1.4 ADF monitoring

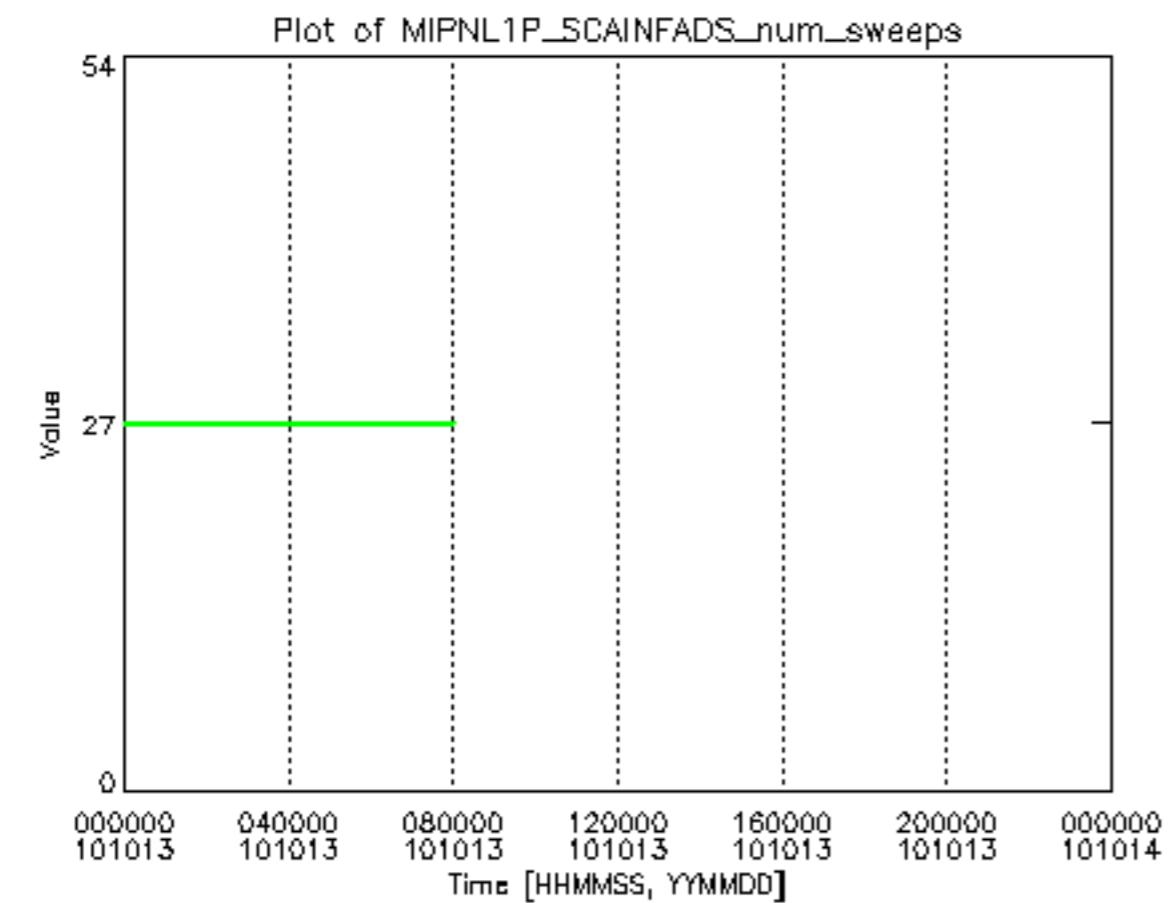
Number	ADF
0	AUX_FRO_AXVPDS20101018_212129_20101012_221000_20101015_005000
1	MIP_CA1_AXNIEC20100125_145055_20100122_000000_20150122_000000
2	MIP(CG1_AXVIEC20101011_124503_20101009_000000_20151009_000000
3	MIP(CL1_AXNIEC20100125_145256_20100122_000000_20150122_000000
4	MIP(CO1_AXVIEC20101011_124621_20101009_000000_20151009_000000
5	MIP(CS1_AXVIEC20101011_124715_20101009_000000_20151009_000000
6	MIP(MW1_AXNIEC20100125_145445_20100122_000000_20150122_000000
7	MIP(PS1_AXNIEC20100125_145601_20100122_000000_20150122_000000

Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL_1PRDPA20101012_232923_000059842093_00417_45060_6314.N1	5	2	3	1	4	6	7	0
1	MIP_NL_1PRDPA20101013_010912_000060762093_00418_45061_6317.N1	5	2	3	1	4	6	7	0
2	MIP_NL_1PRDPA20101013_025034_000060152093_00419_45062_6320.N1	5	2	3	1	4	6	7	0
3	MIP_NL_1PRDPA20101013_043124_000060152093_00420_45063_6322.N1	5	2	3	1	4	6	7	0
4	MIP_NL_1PRDPA20101013_061144_000060152093_00421_45064_6323.N1	5	2	3	1	4	6	7	0
5	MIP_NL_1PRDPA20101013_075205_000004482093_00422_45065_6325.N1	5	2	3	1	4	6	7	0

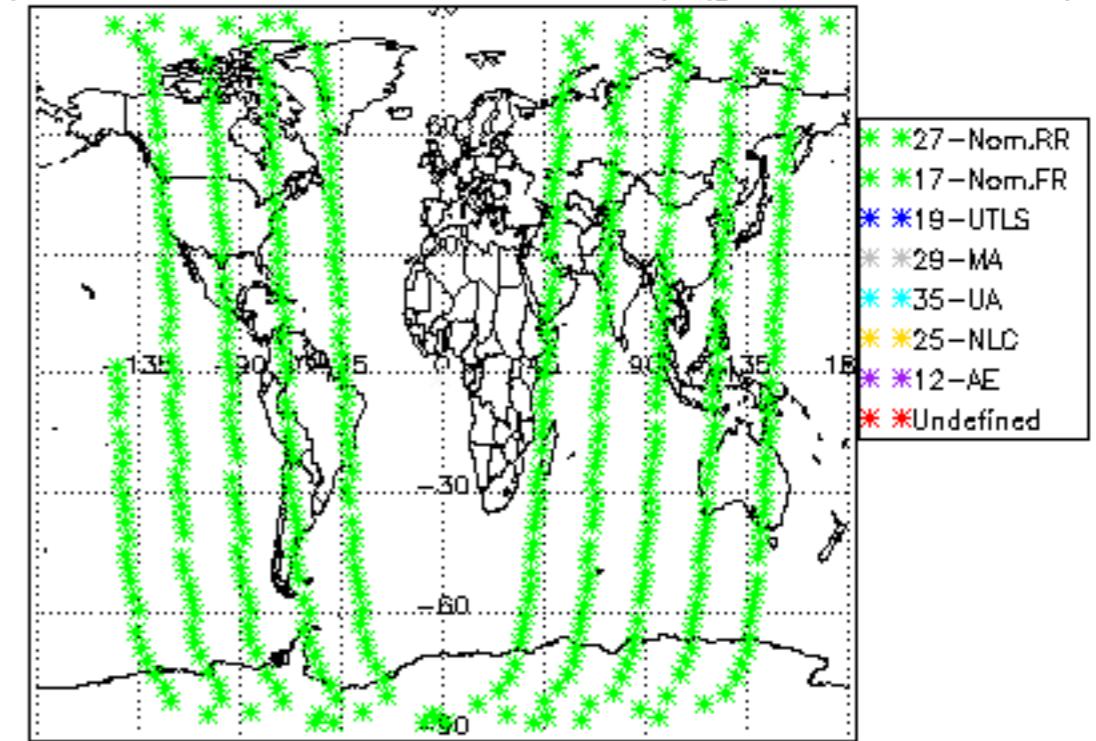


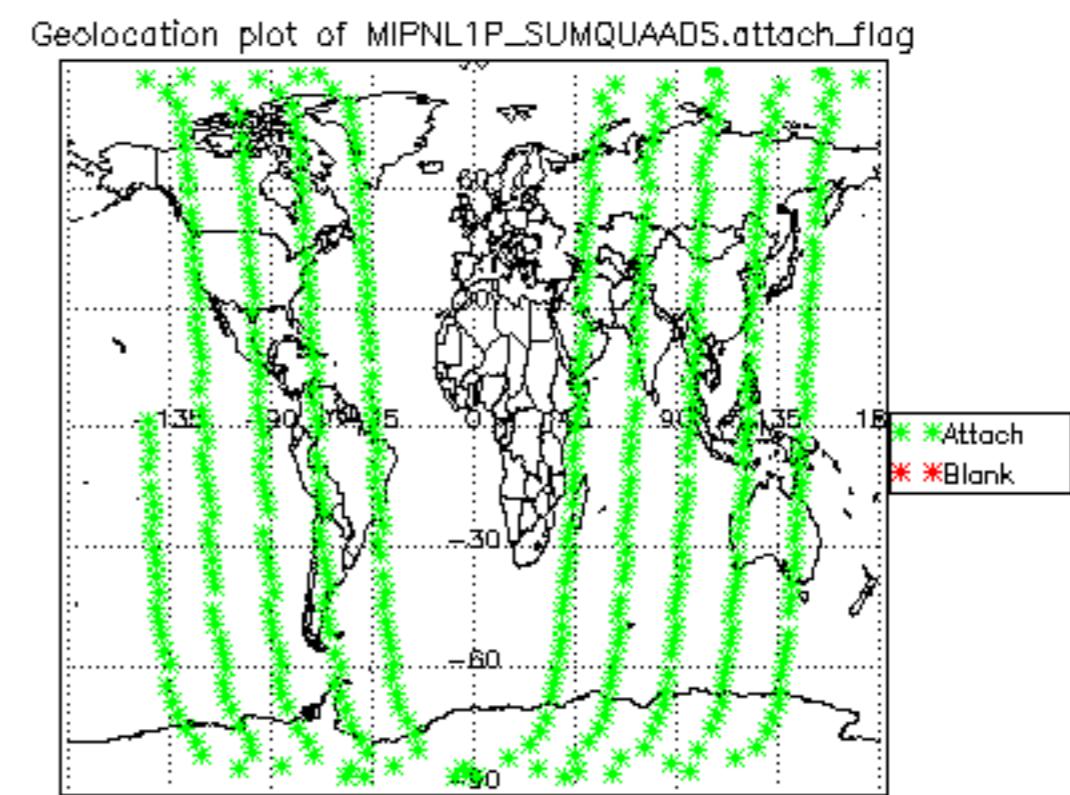
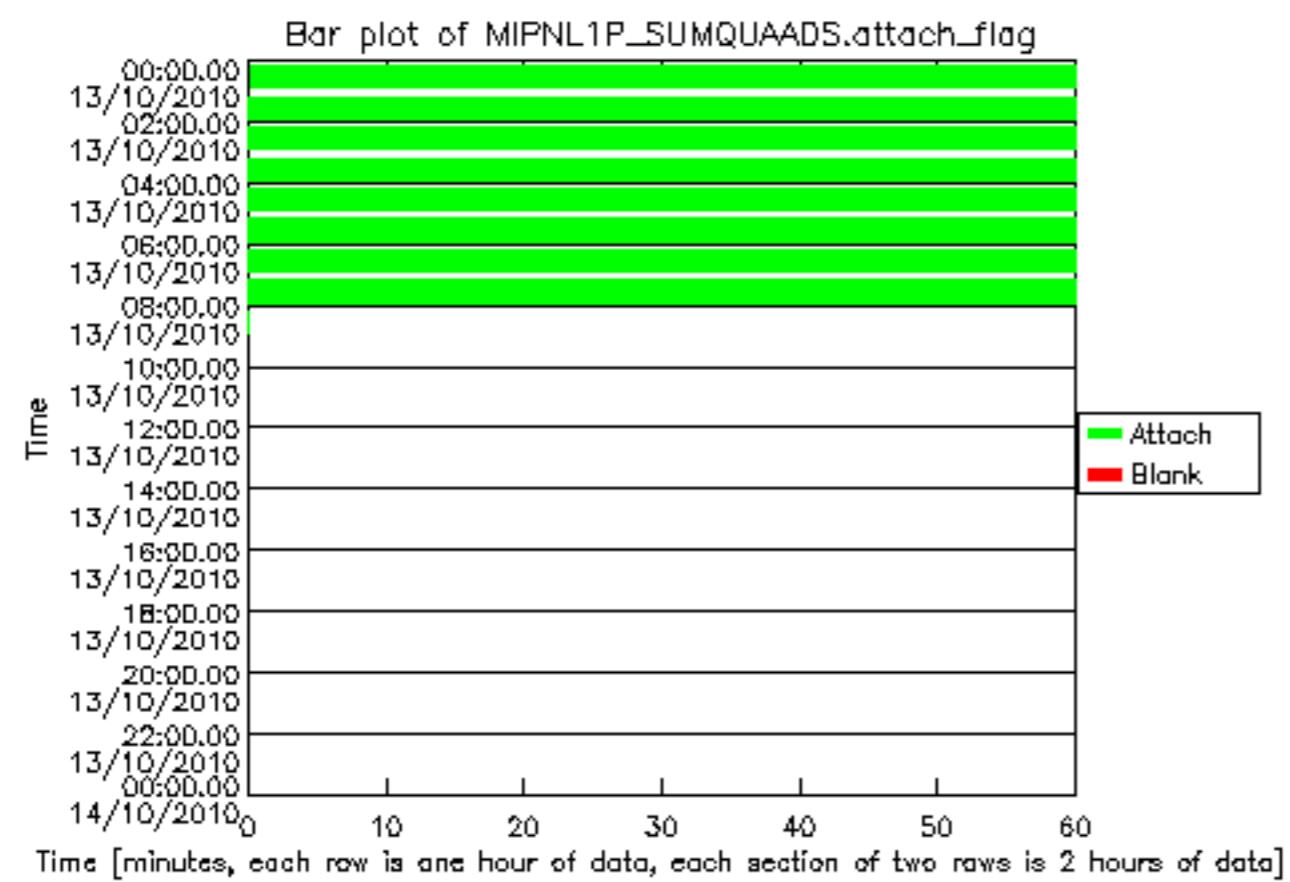


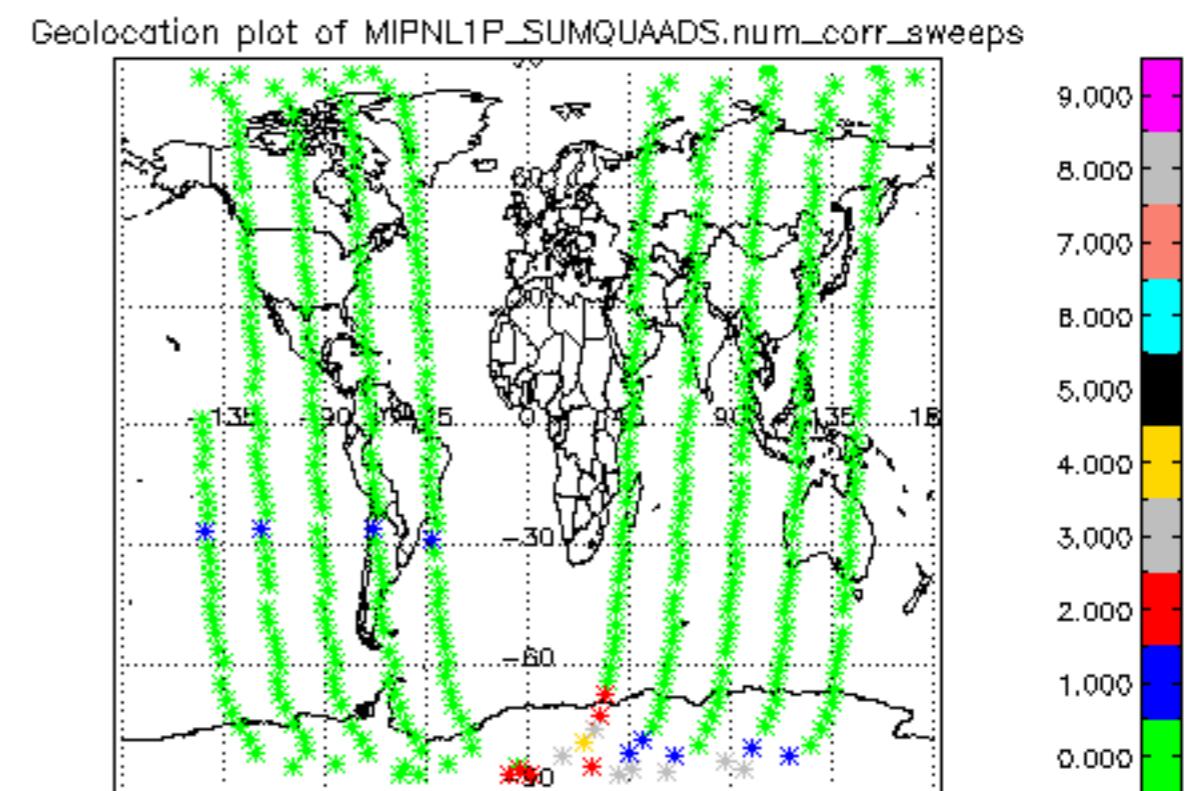
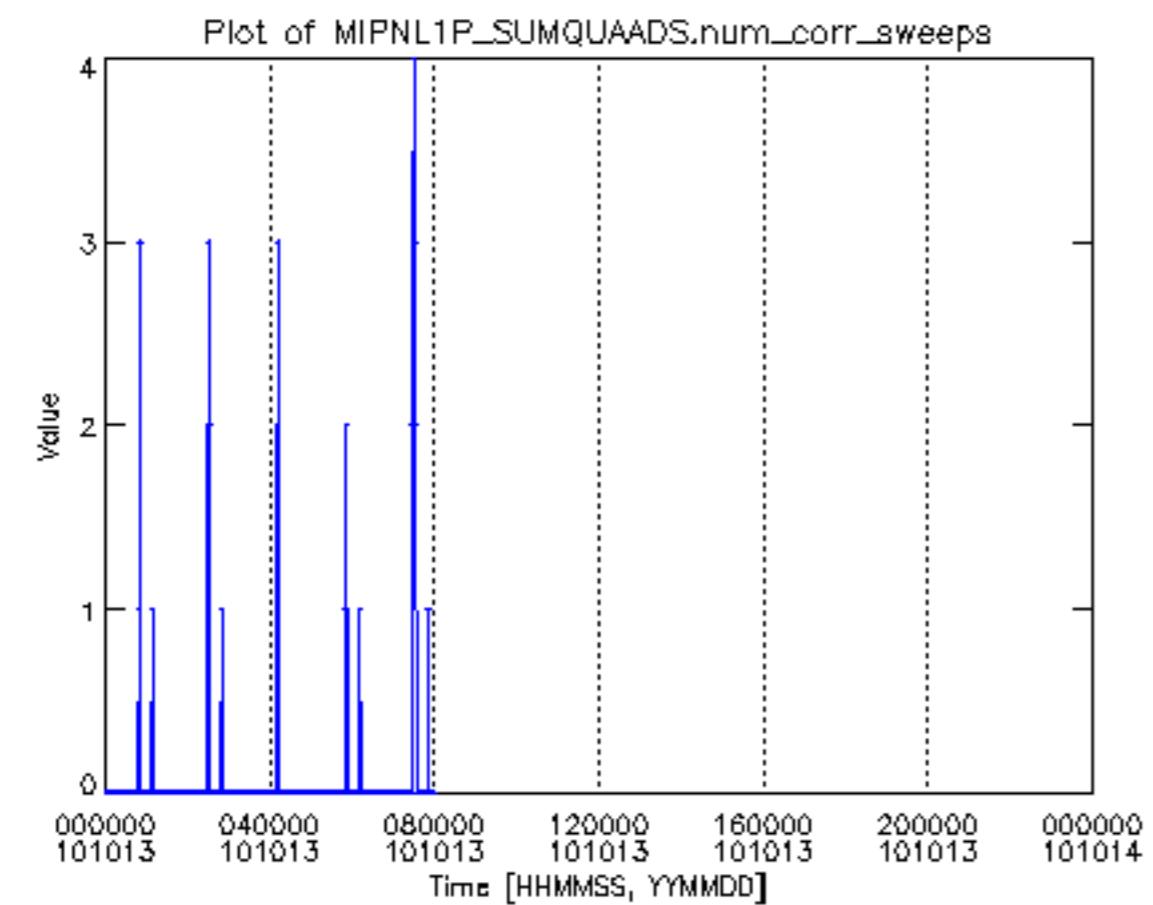


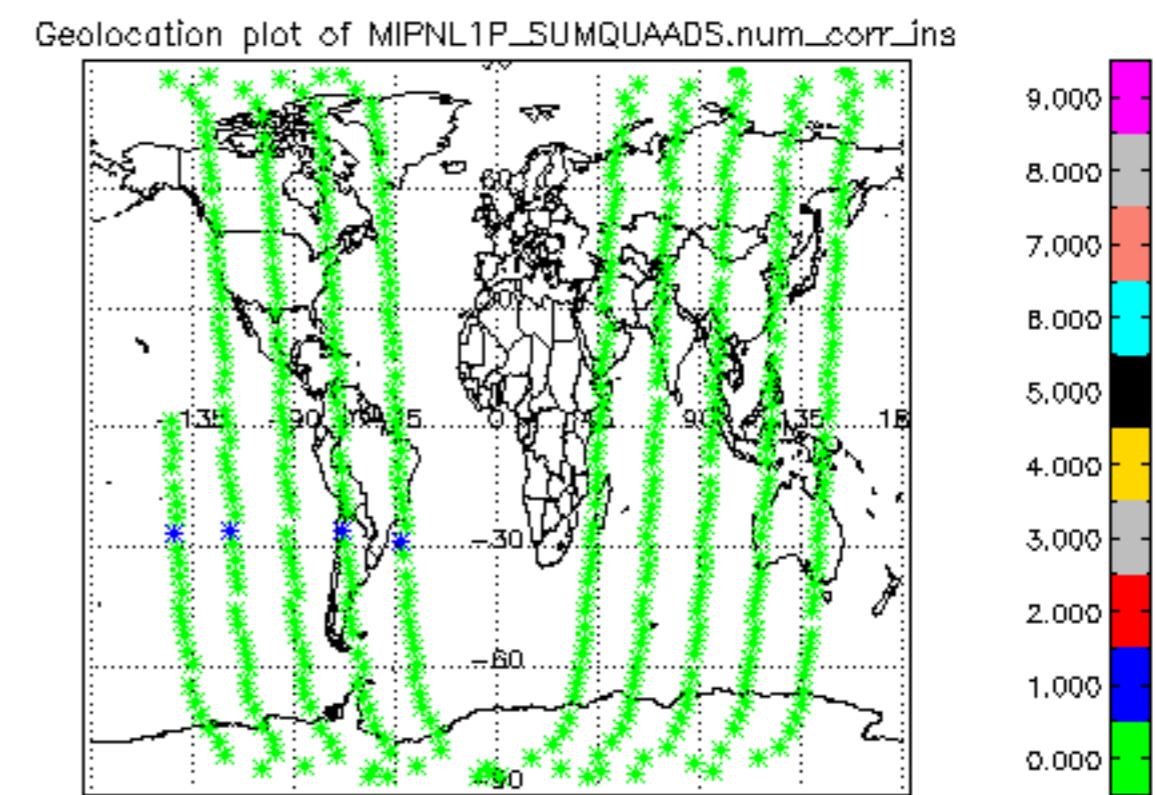
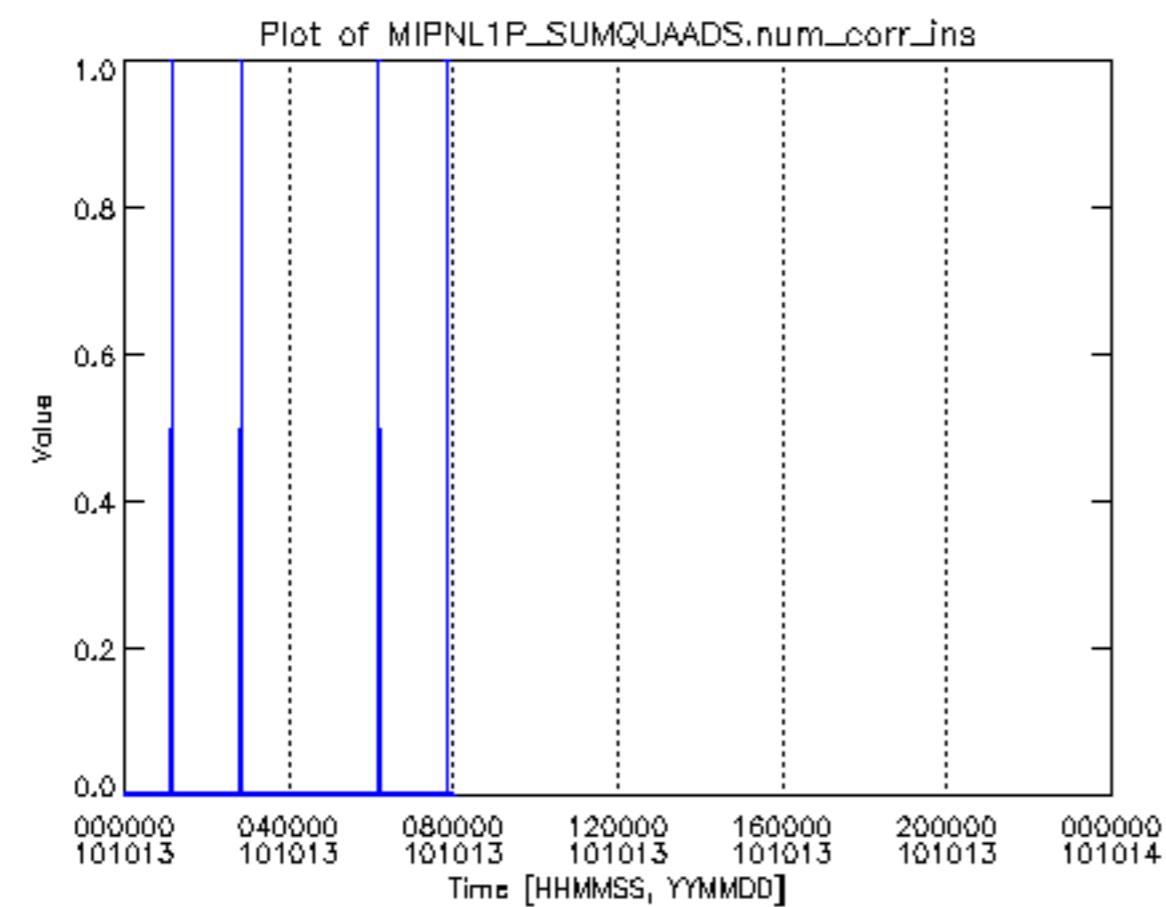


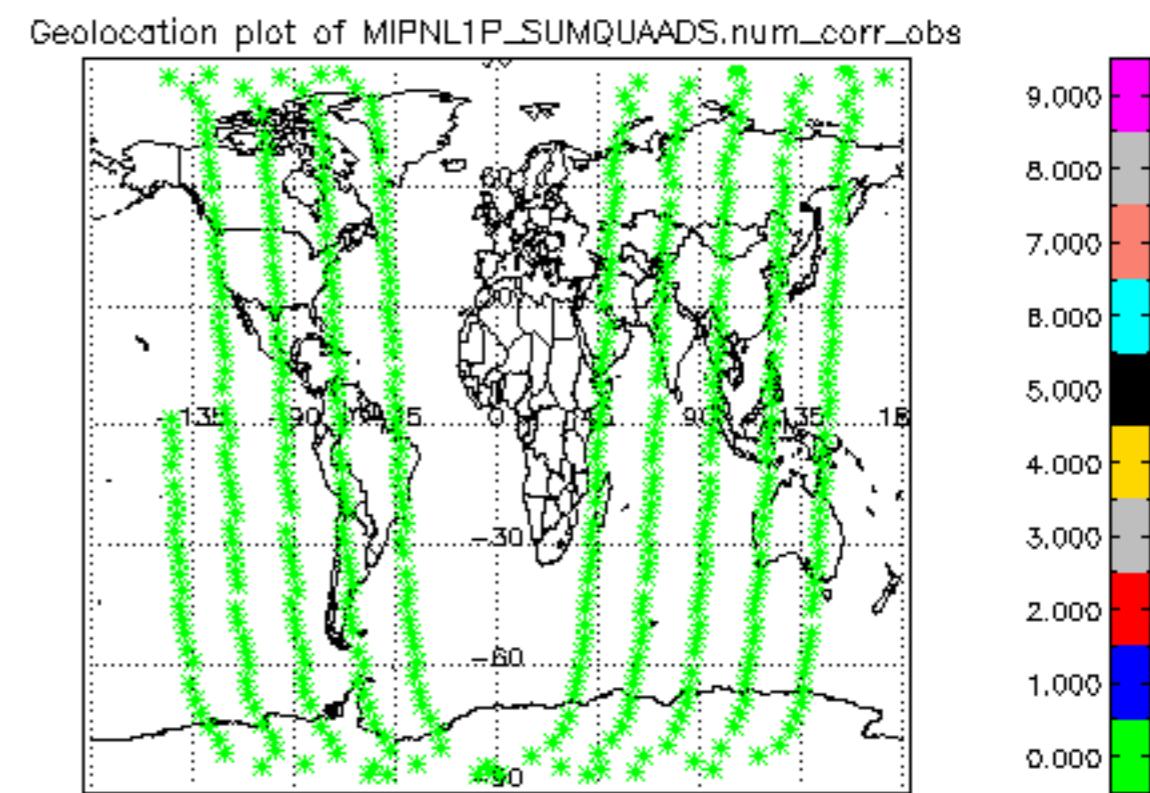
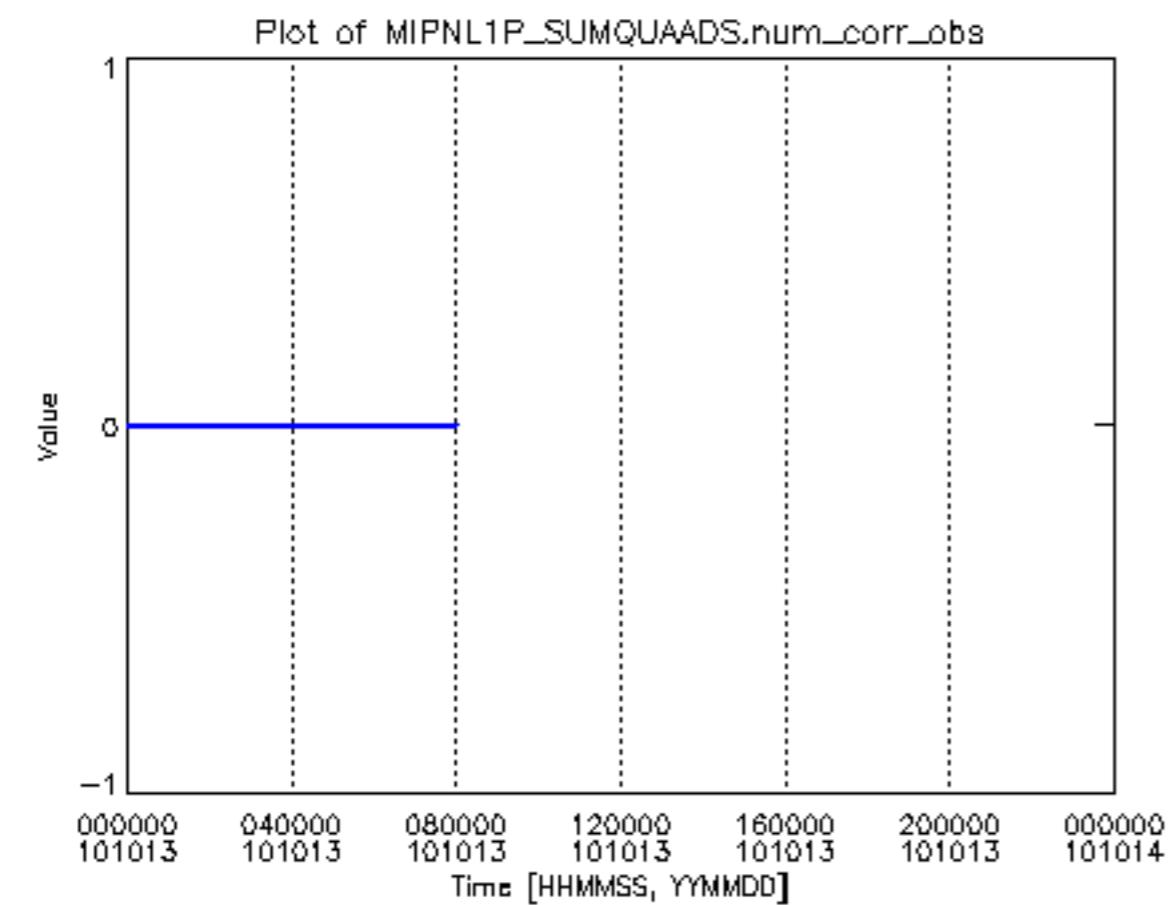
Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)

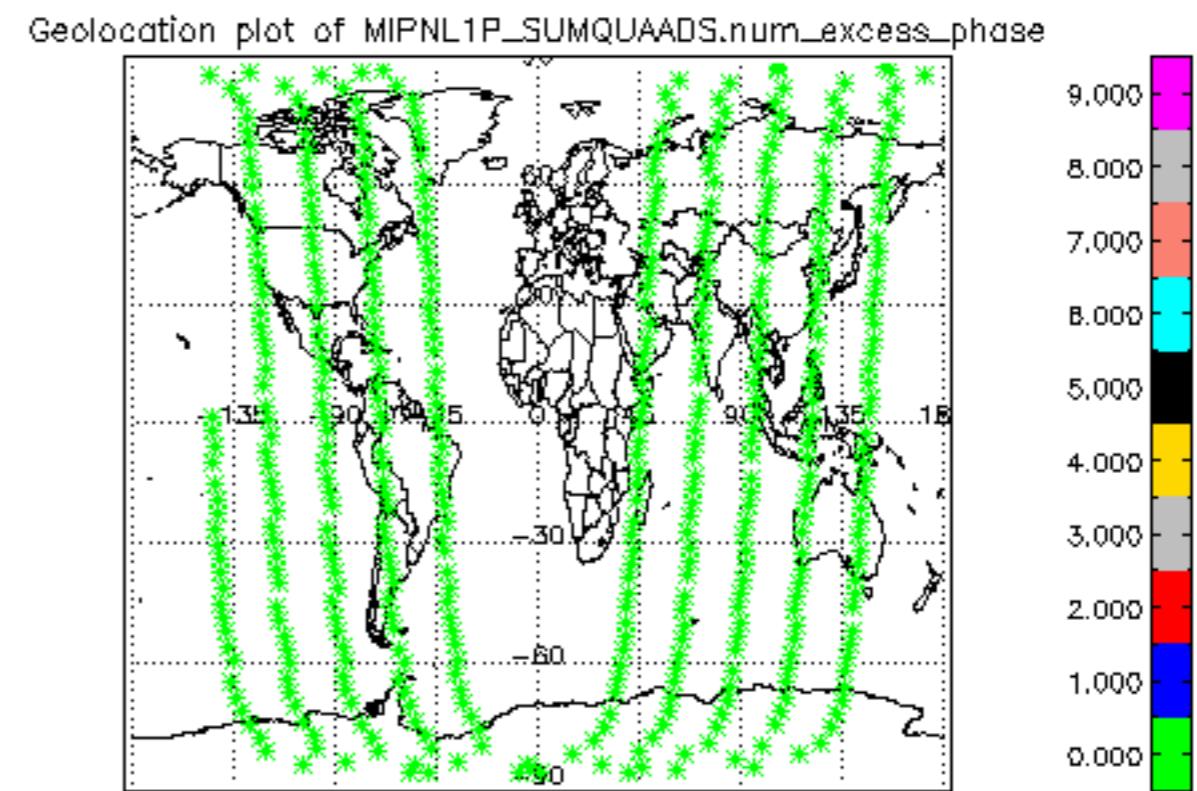
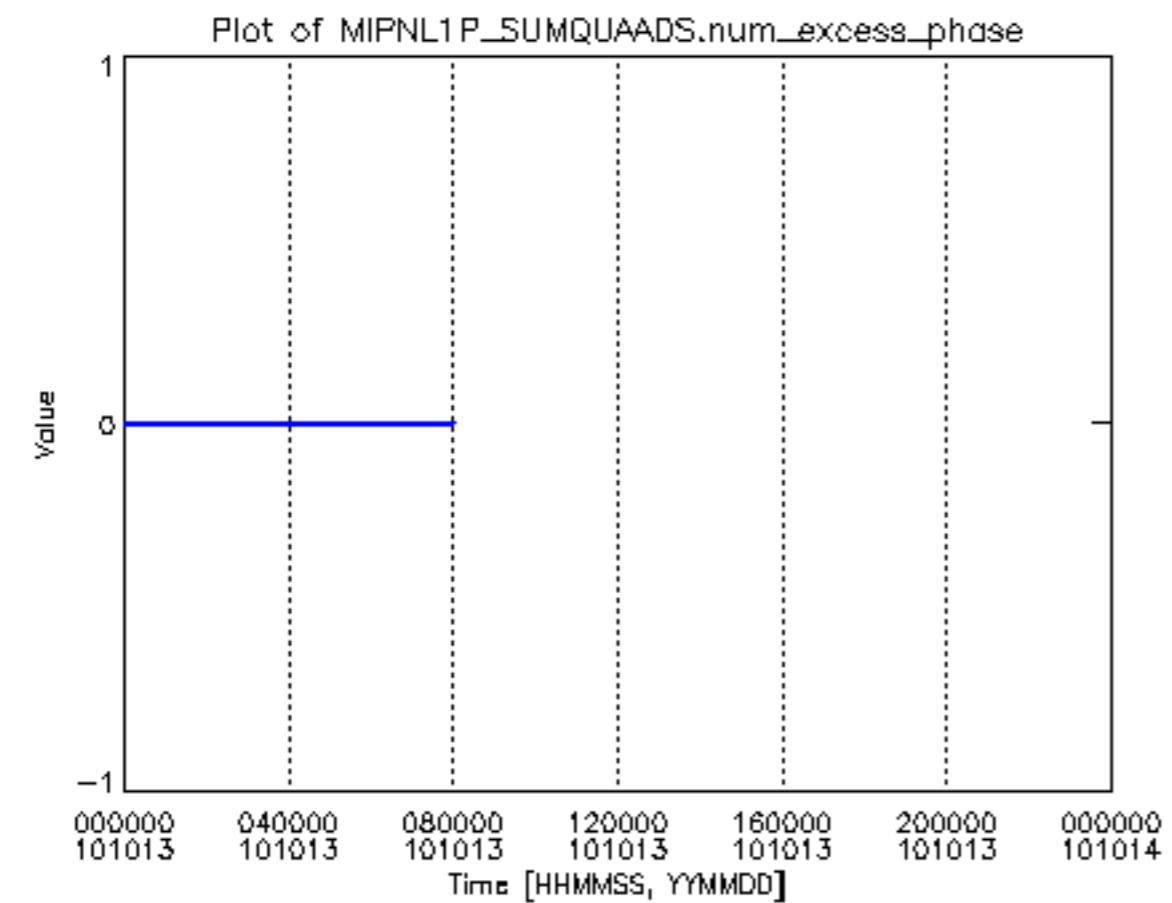


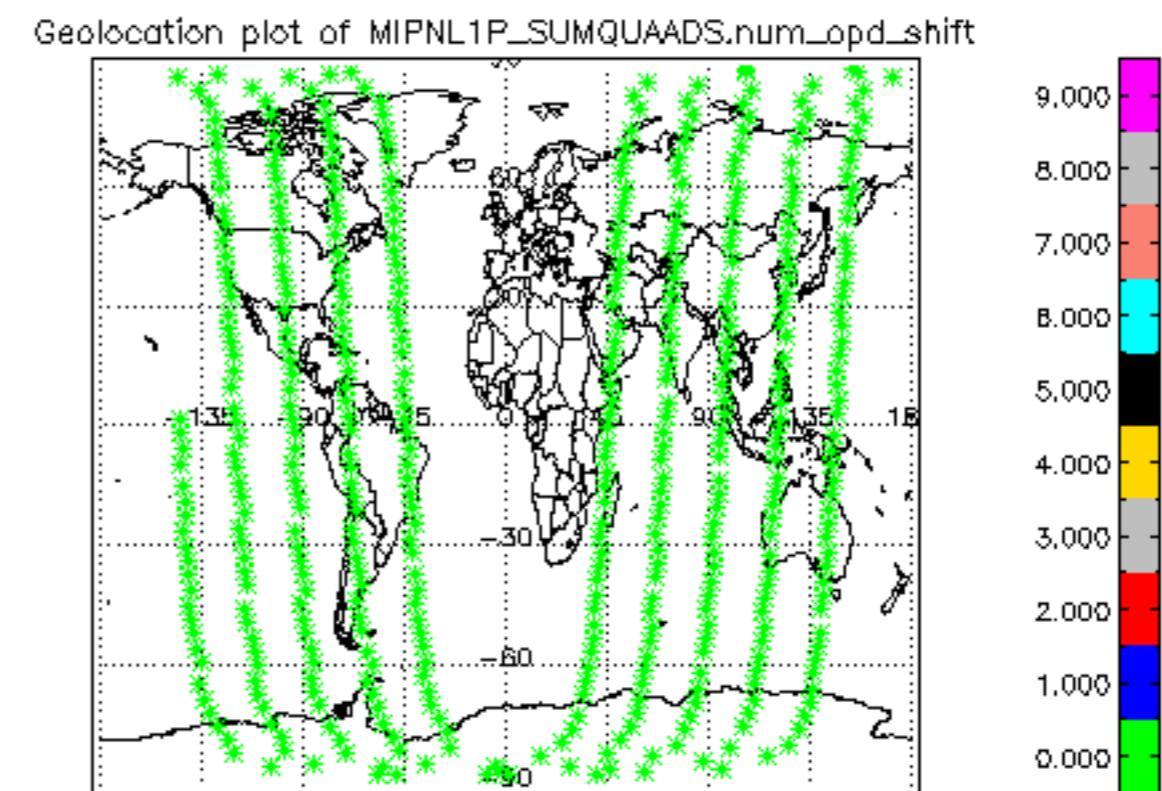
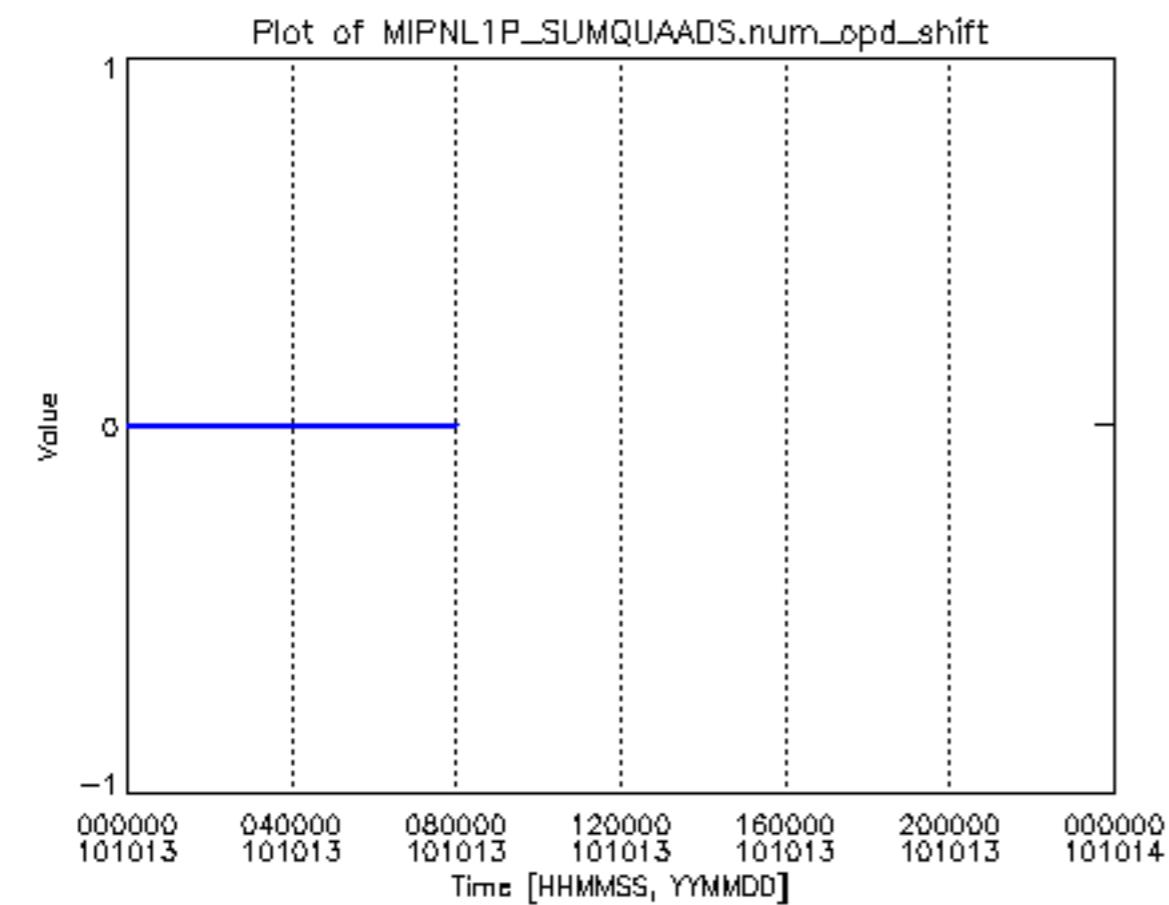


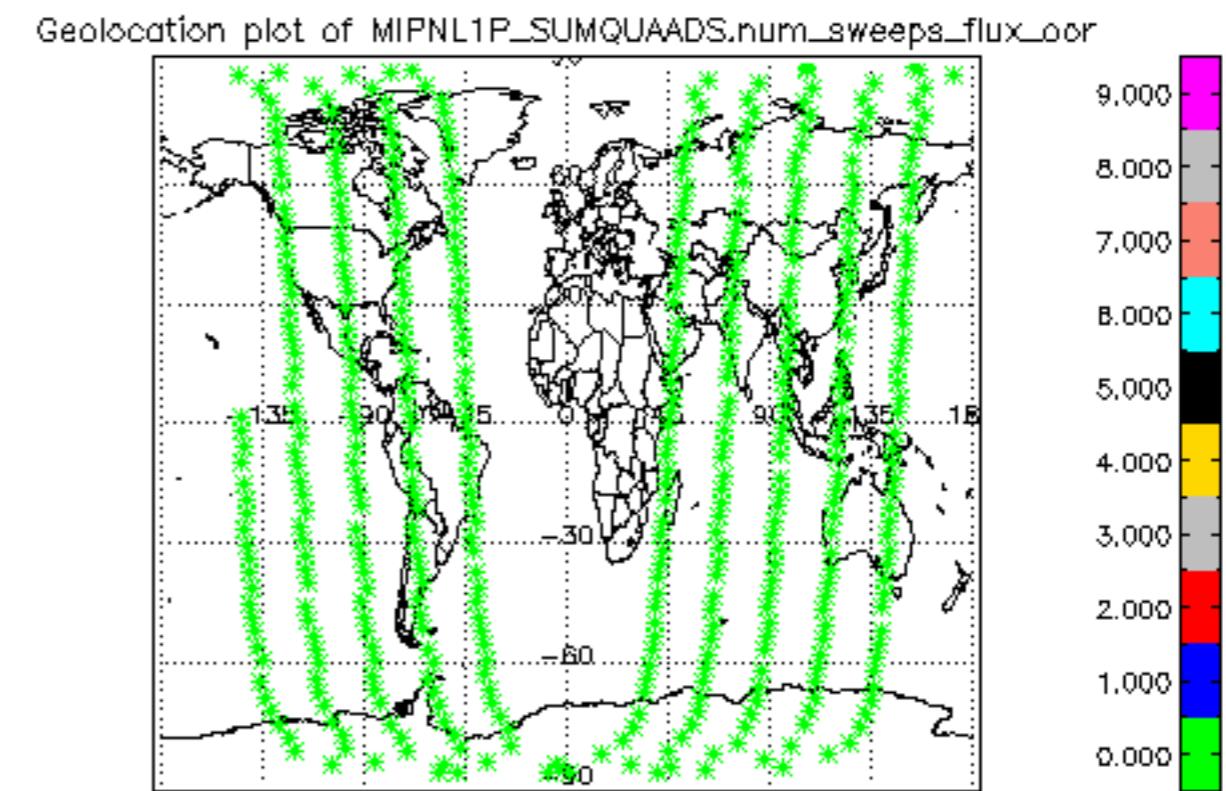
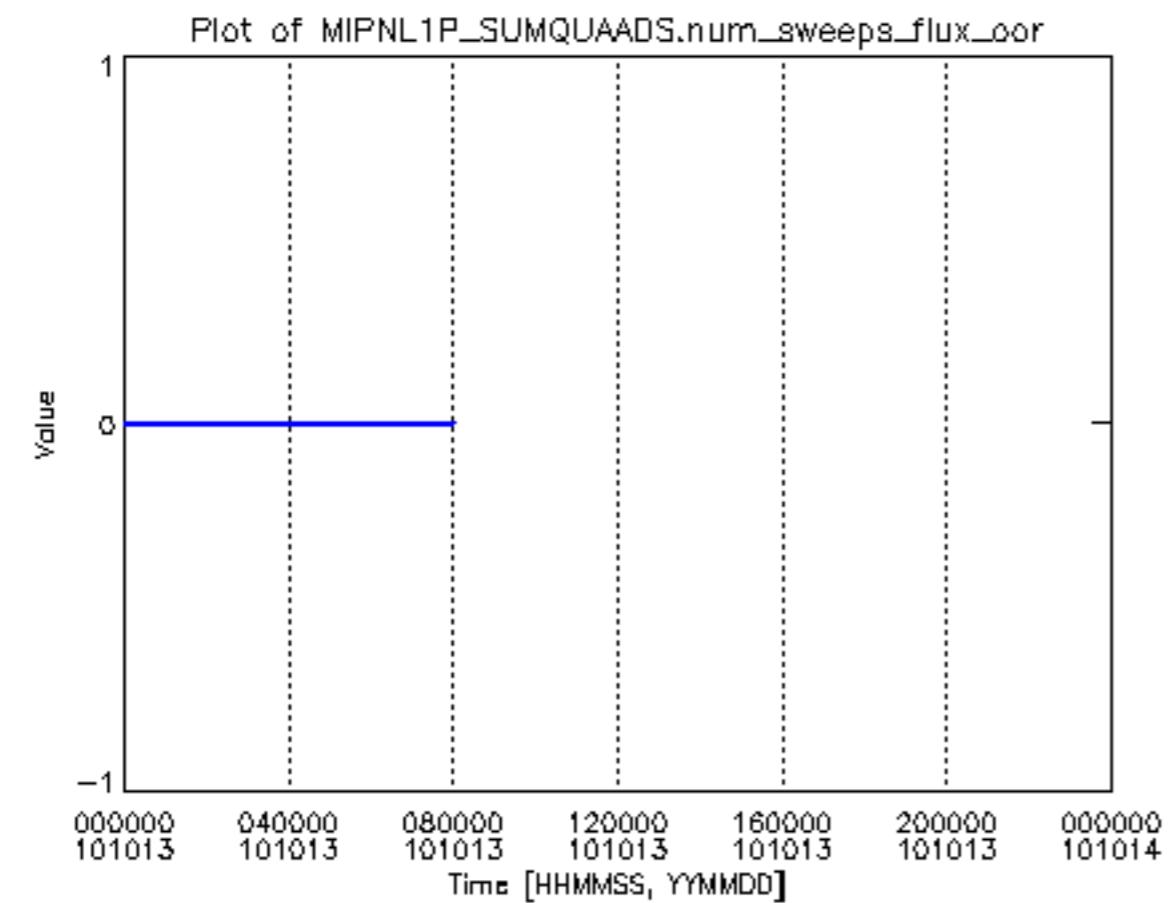


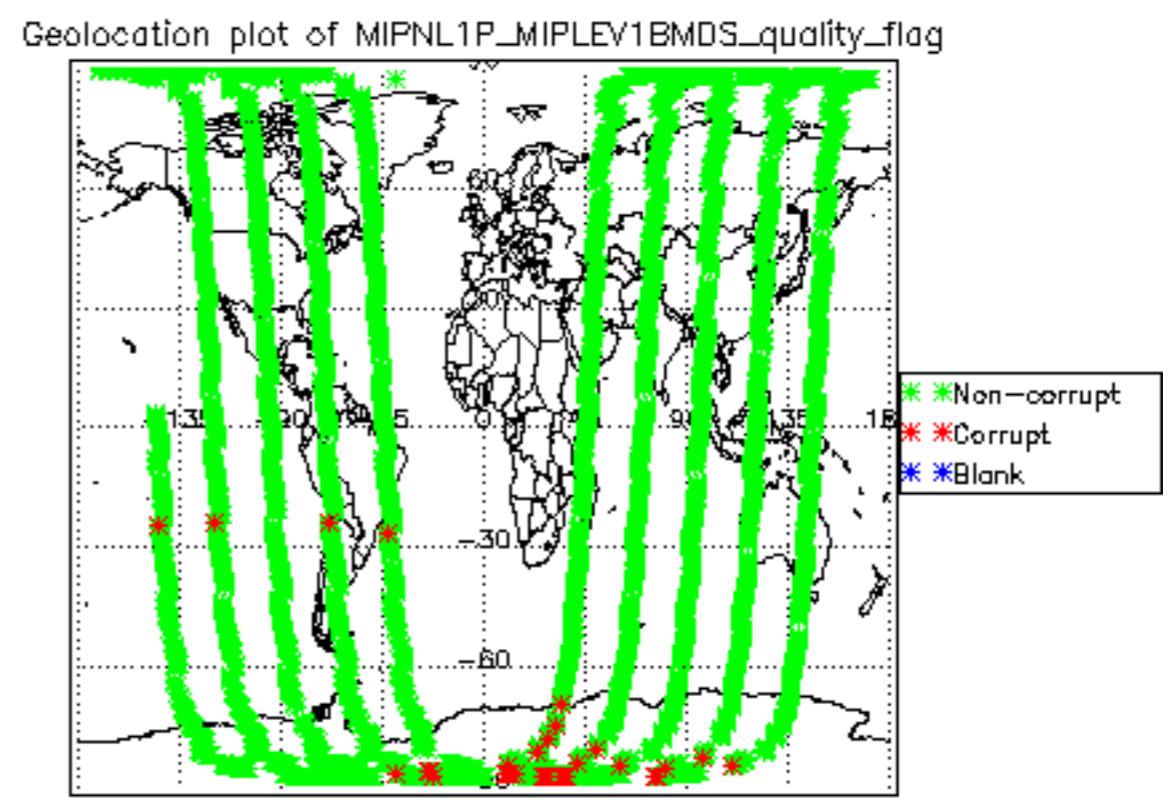
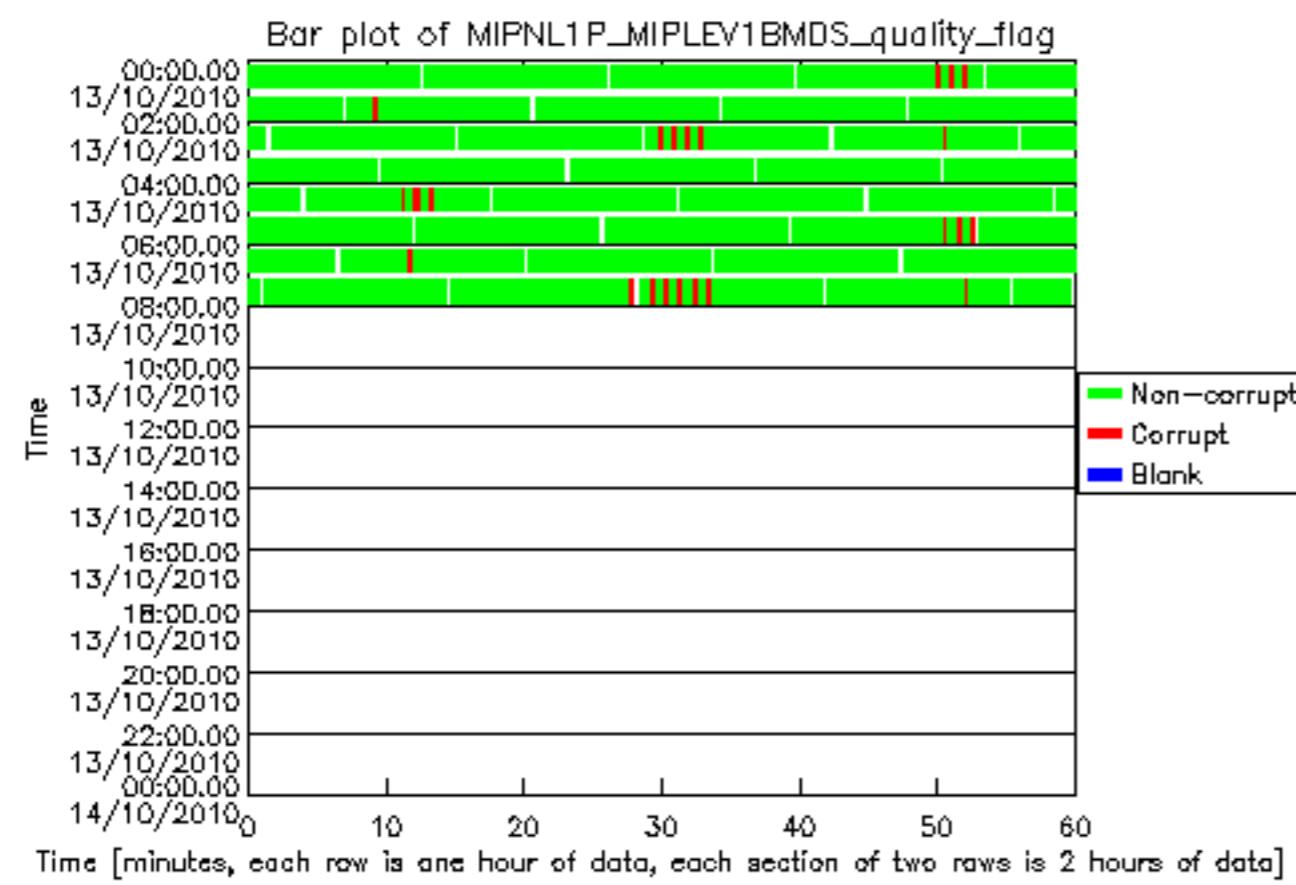


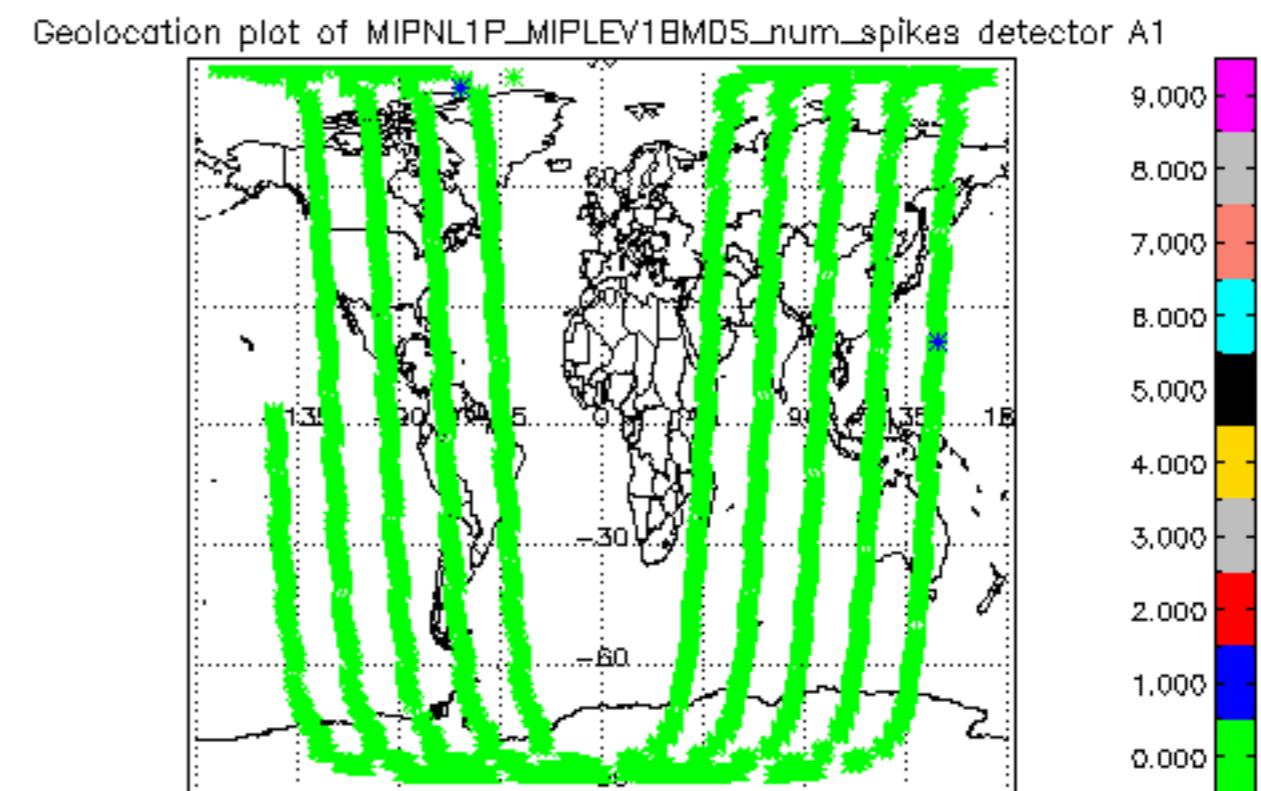
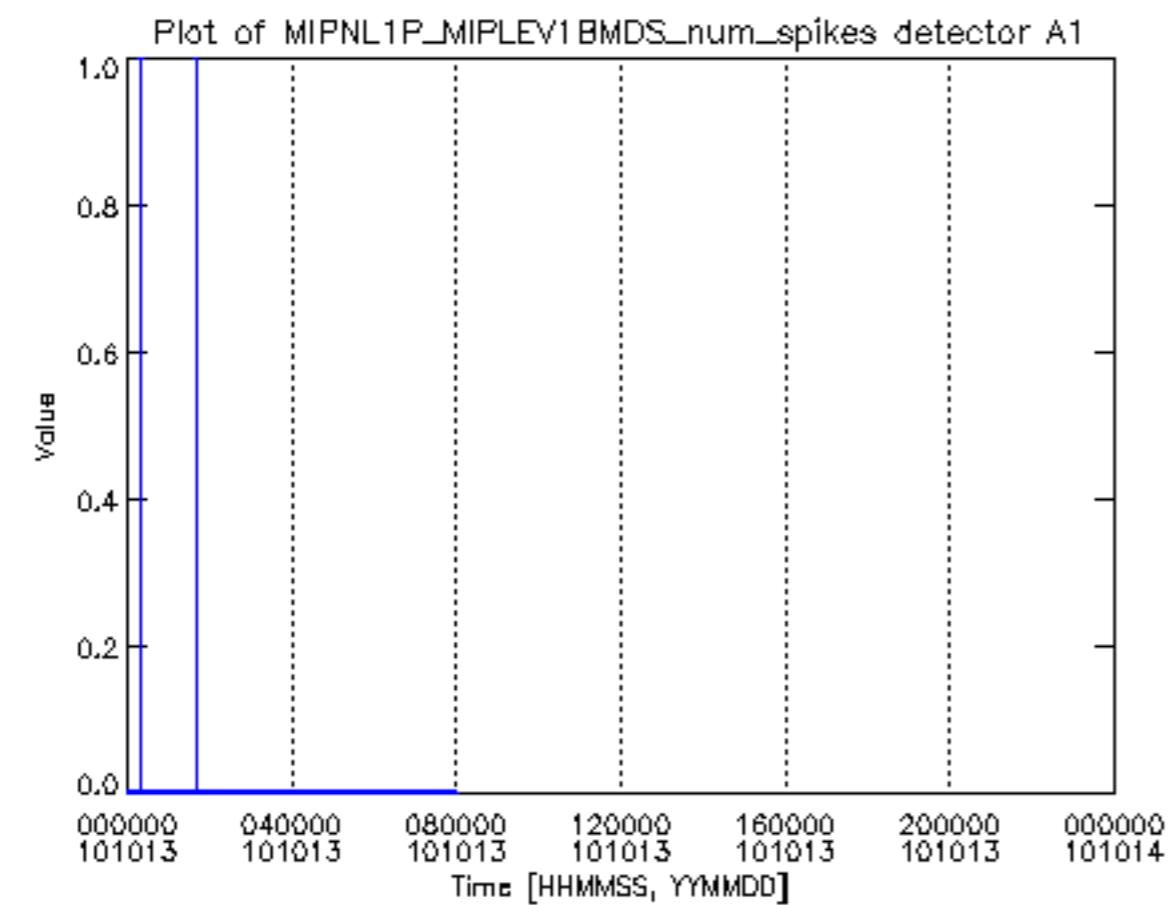


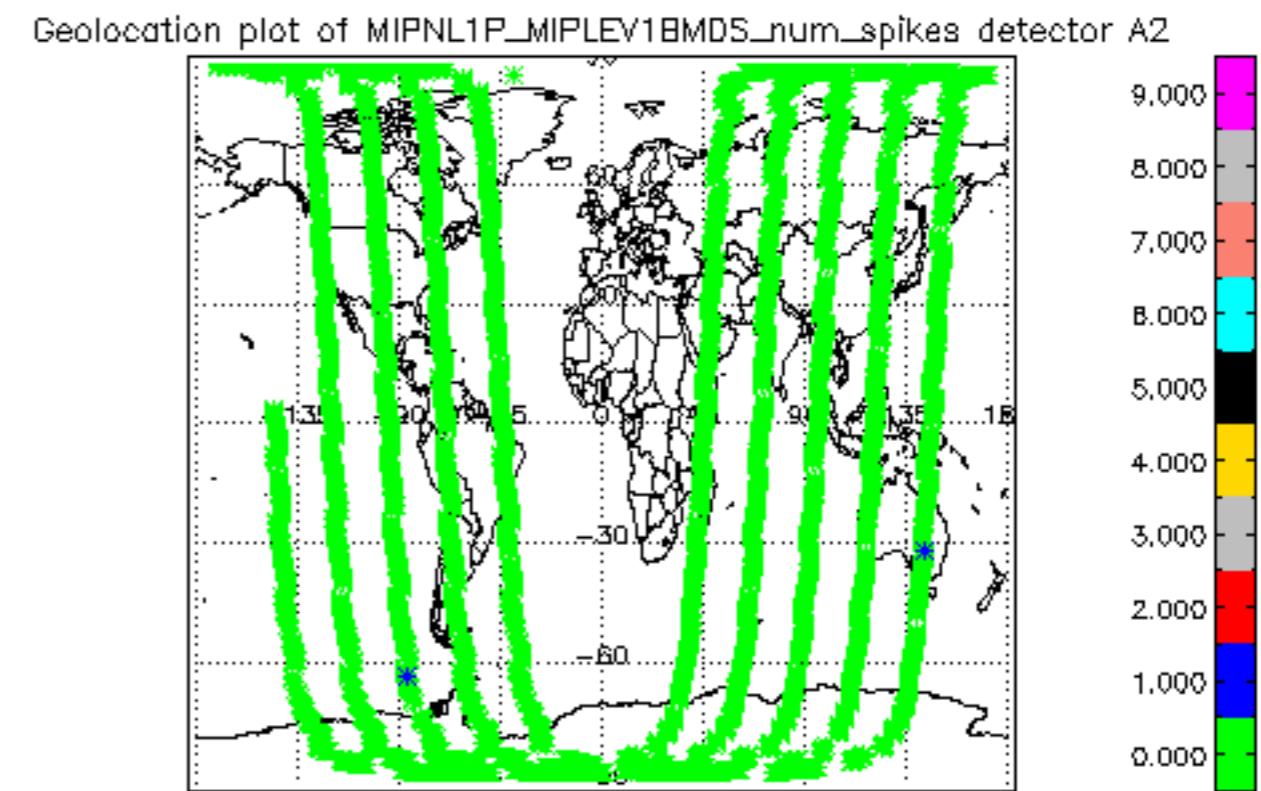
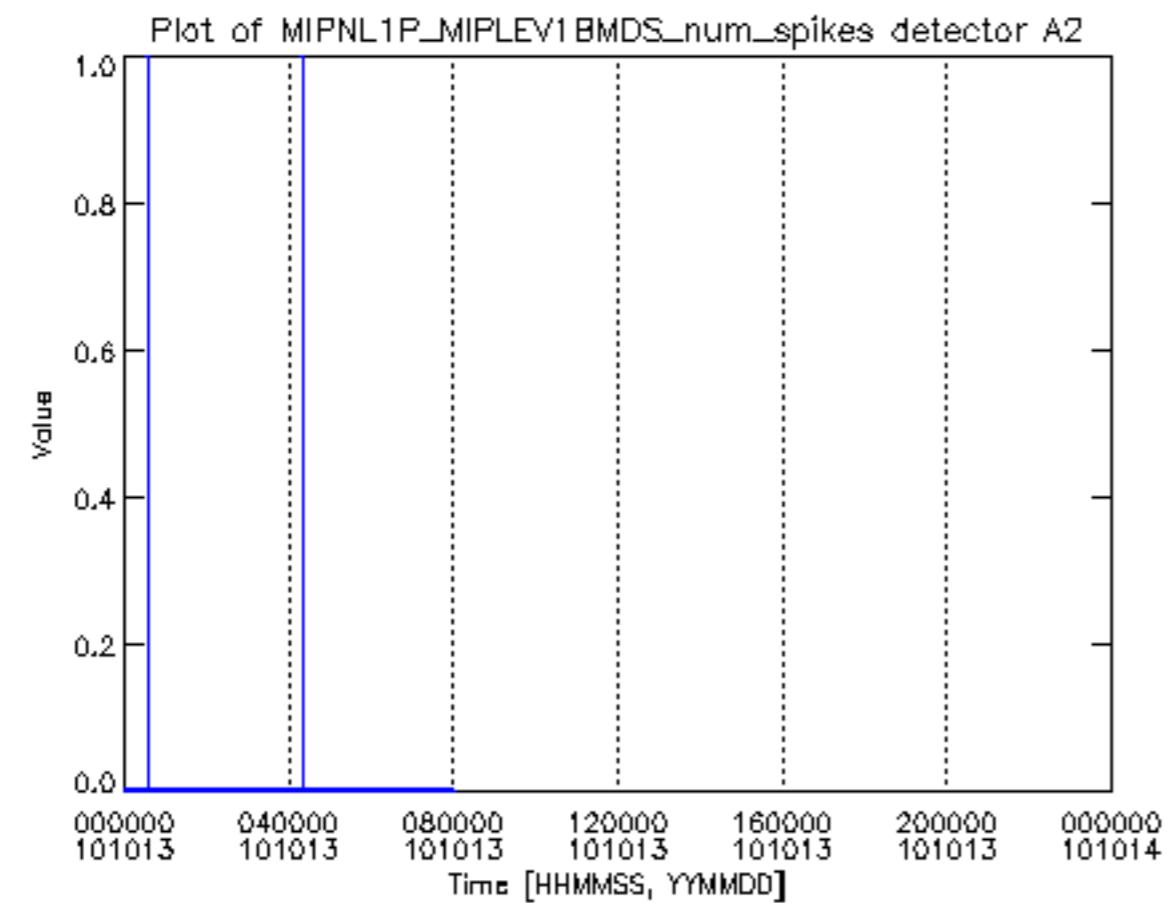


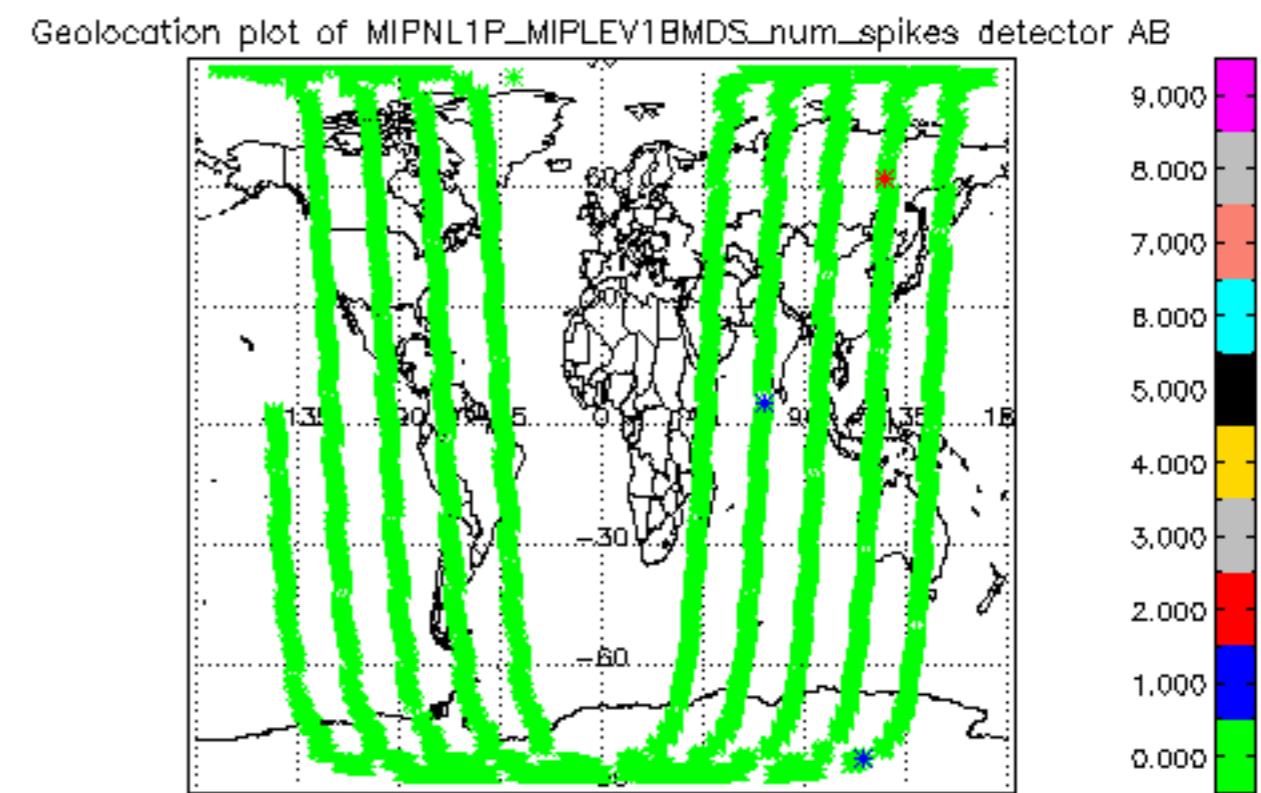
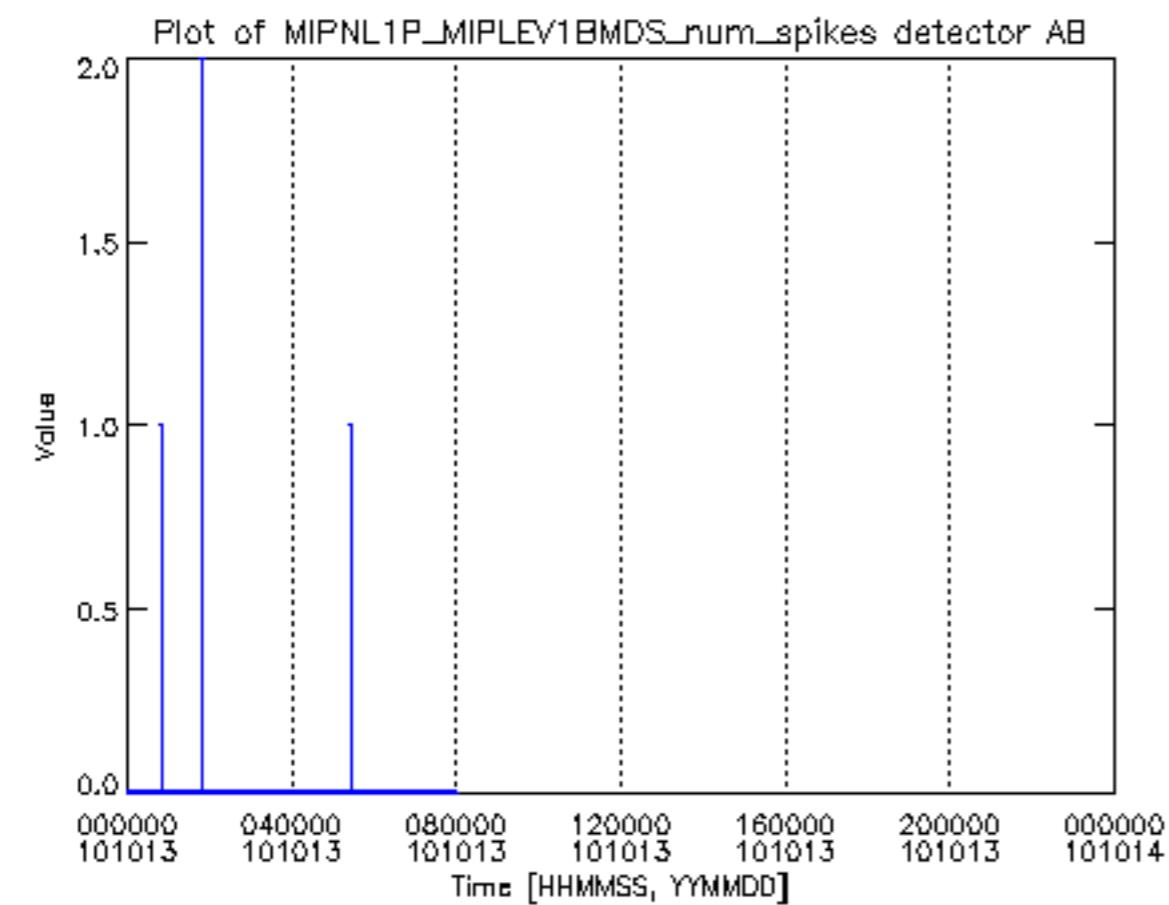


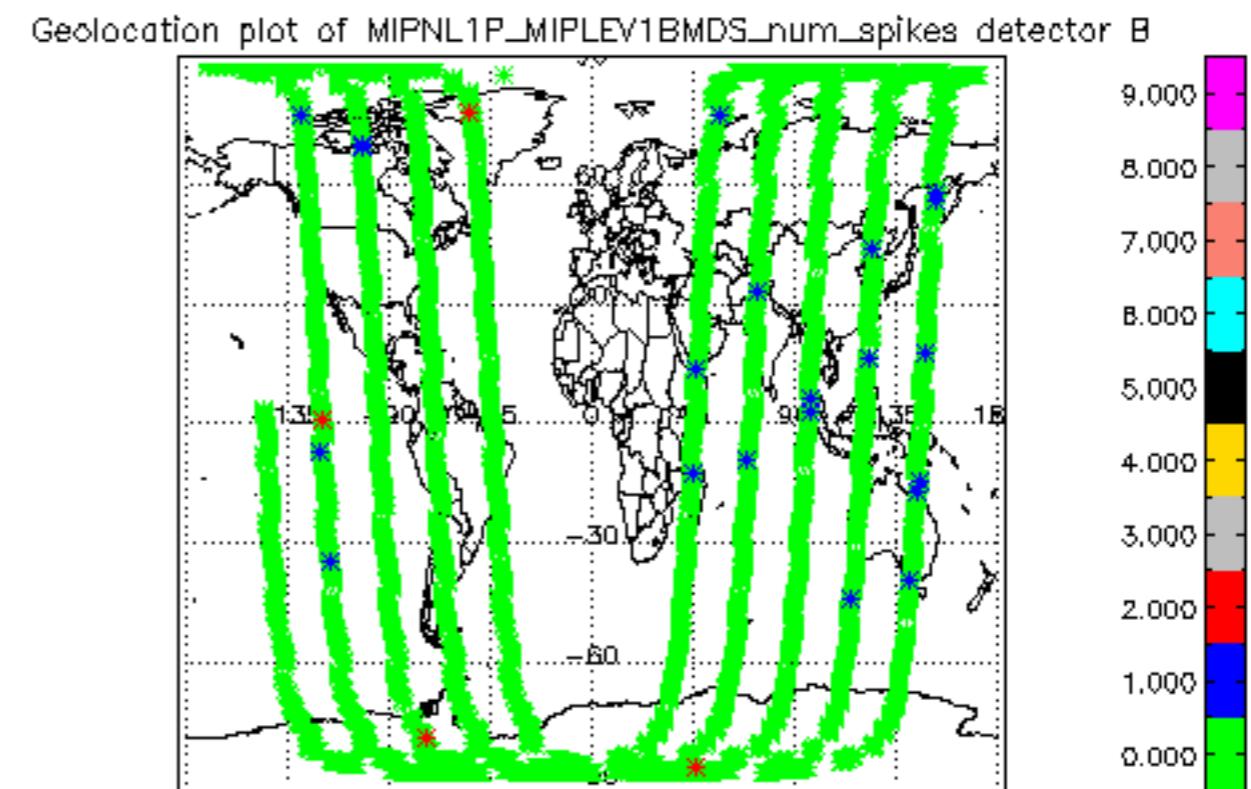
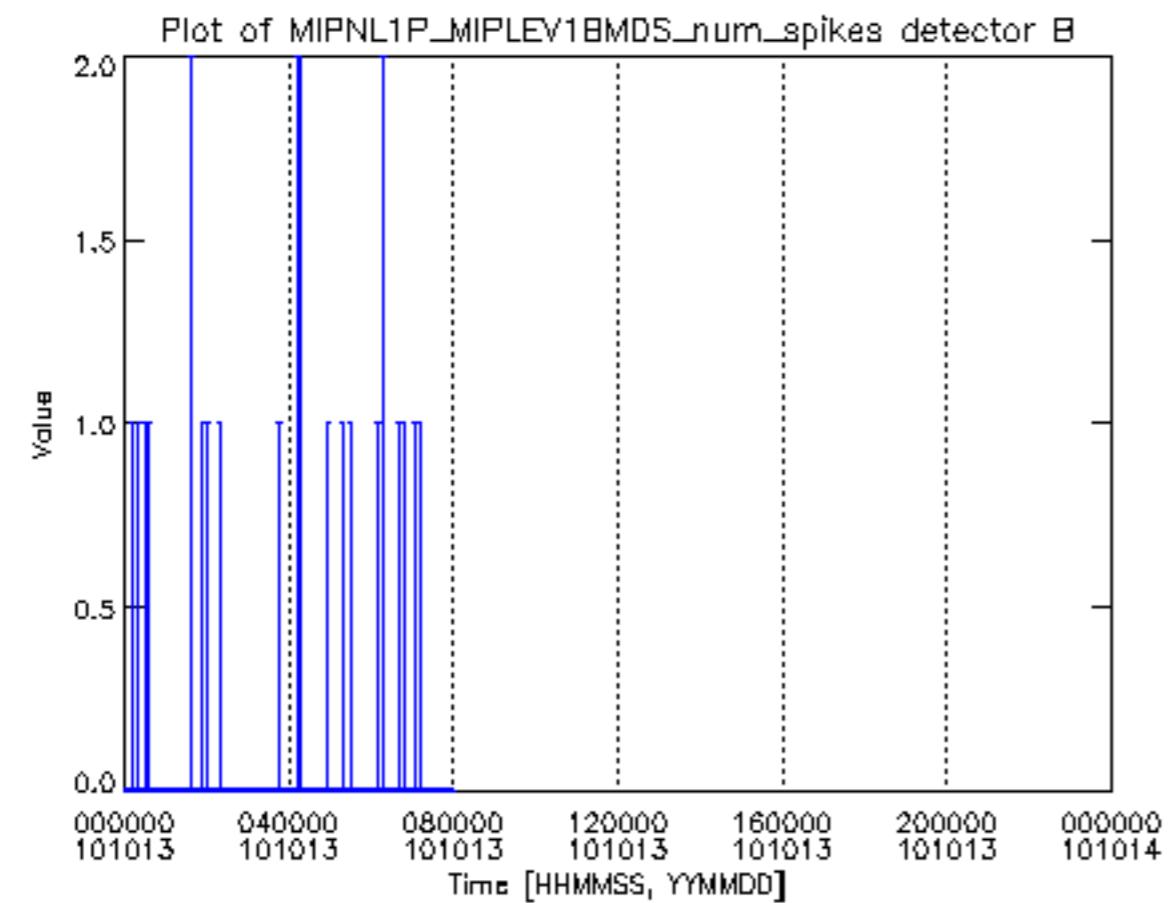


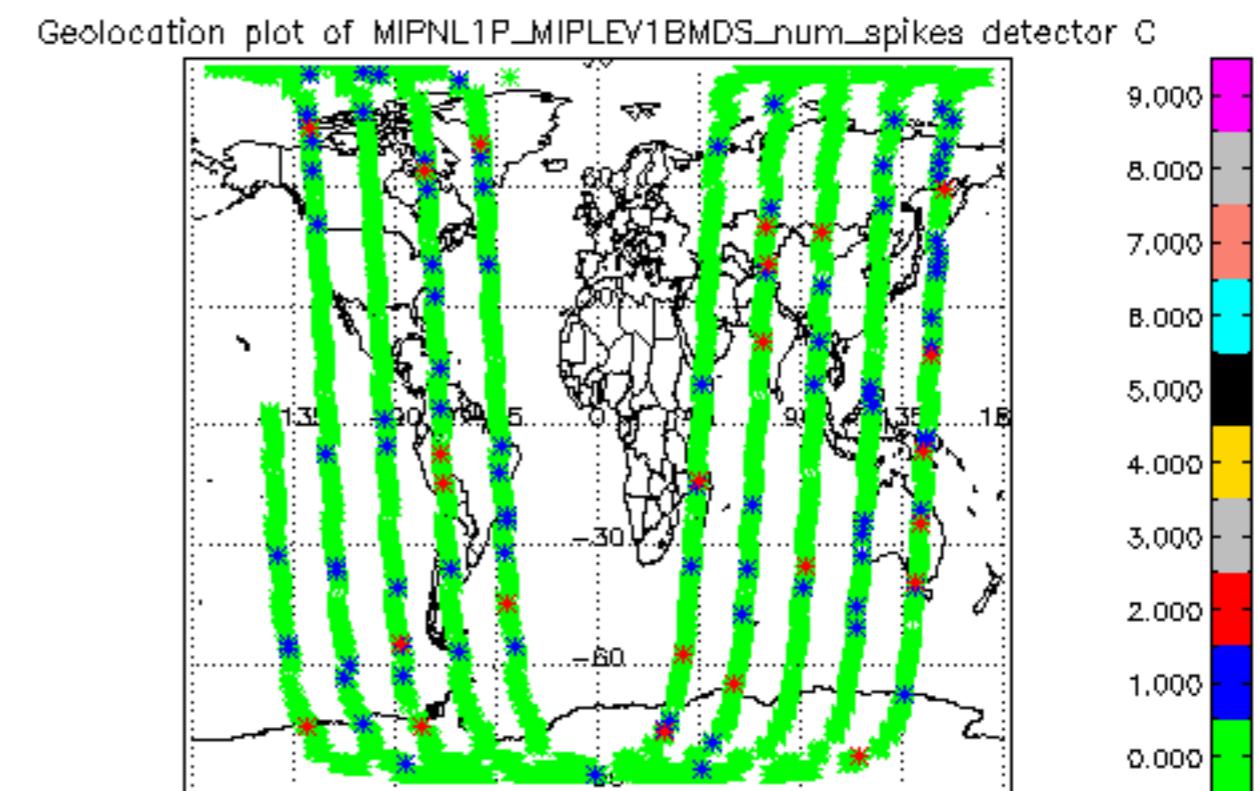
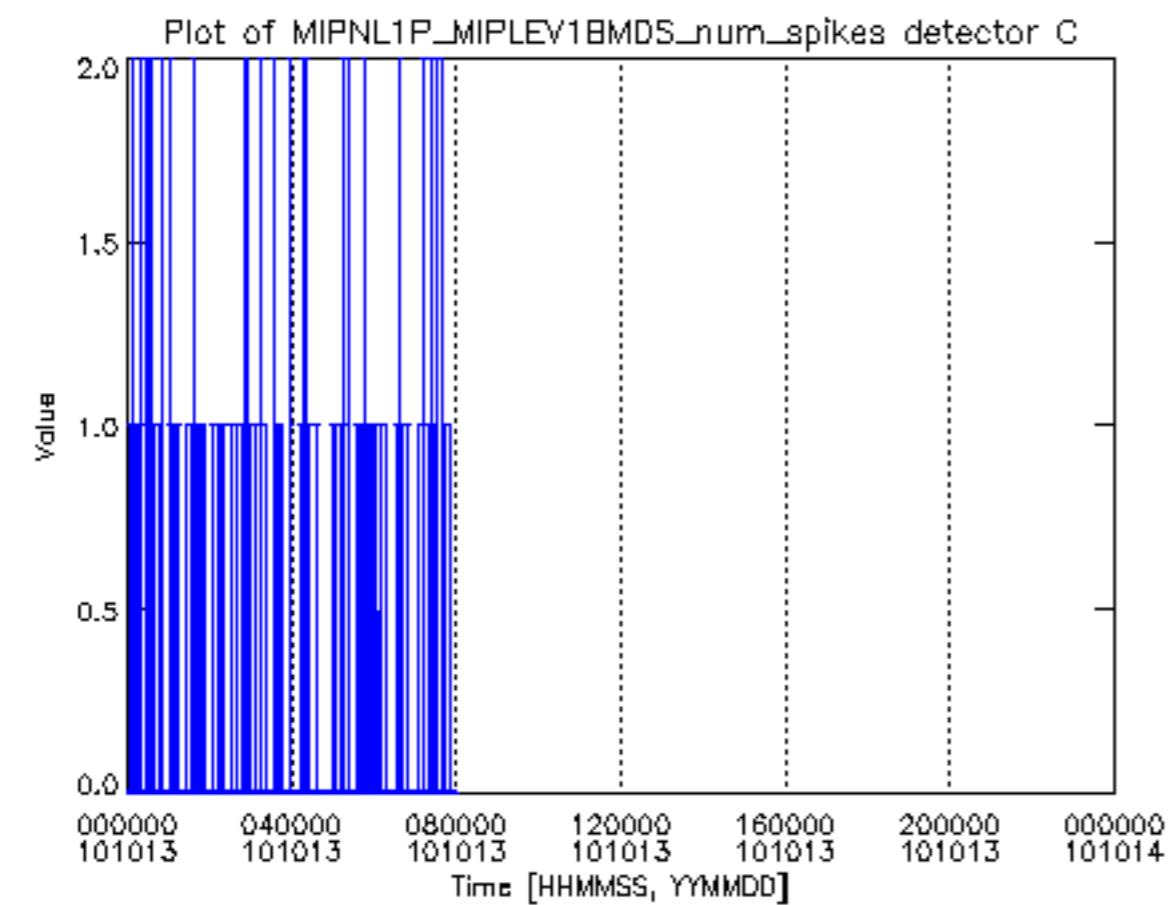


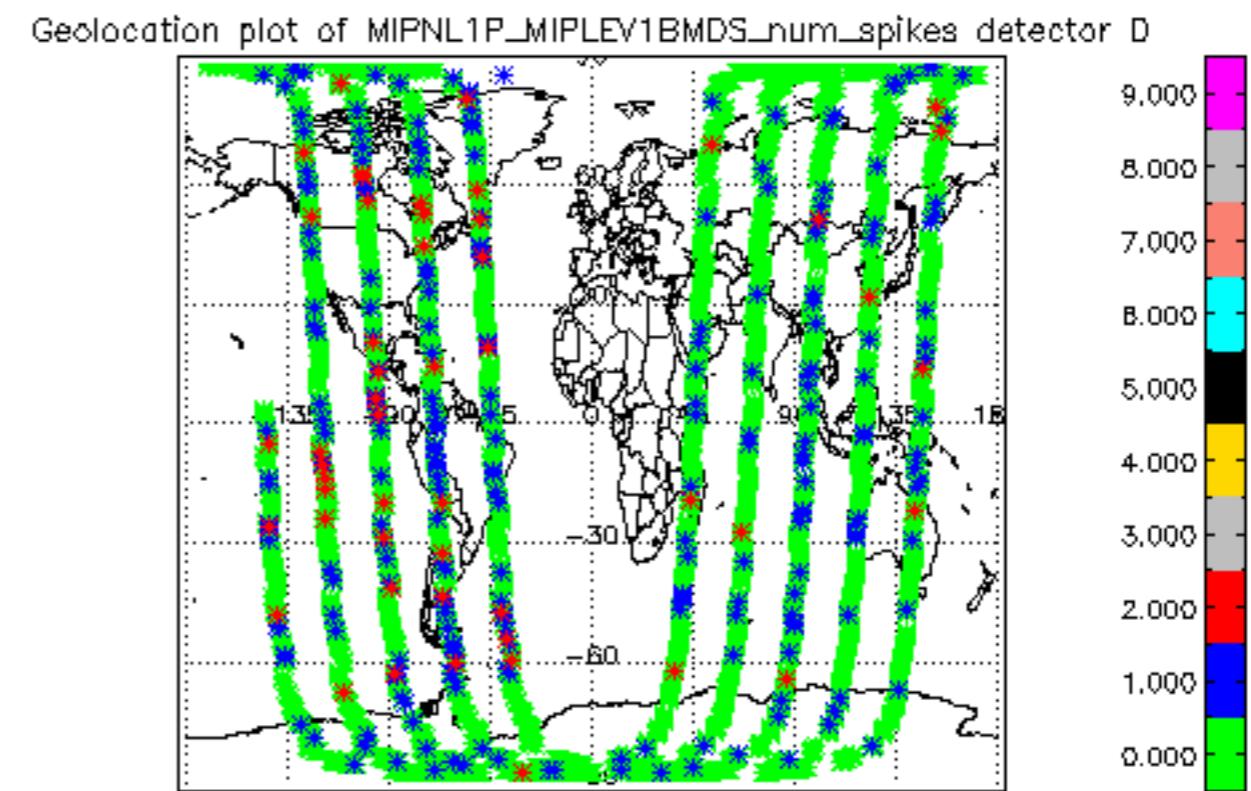
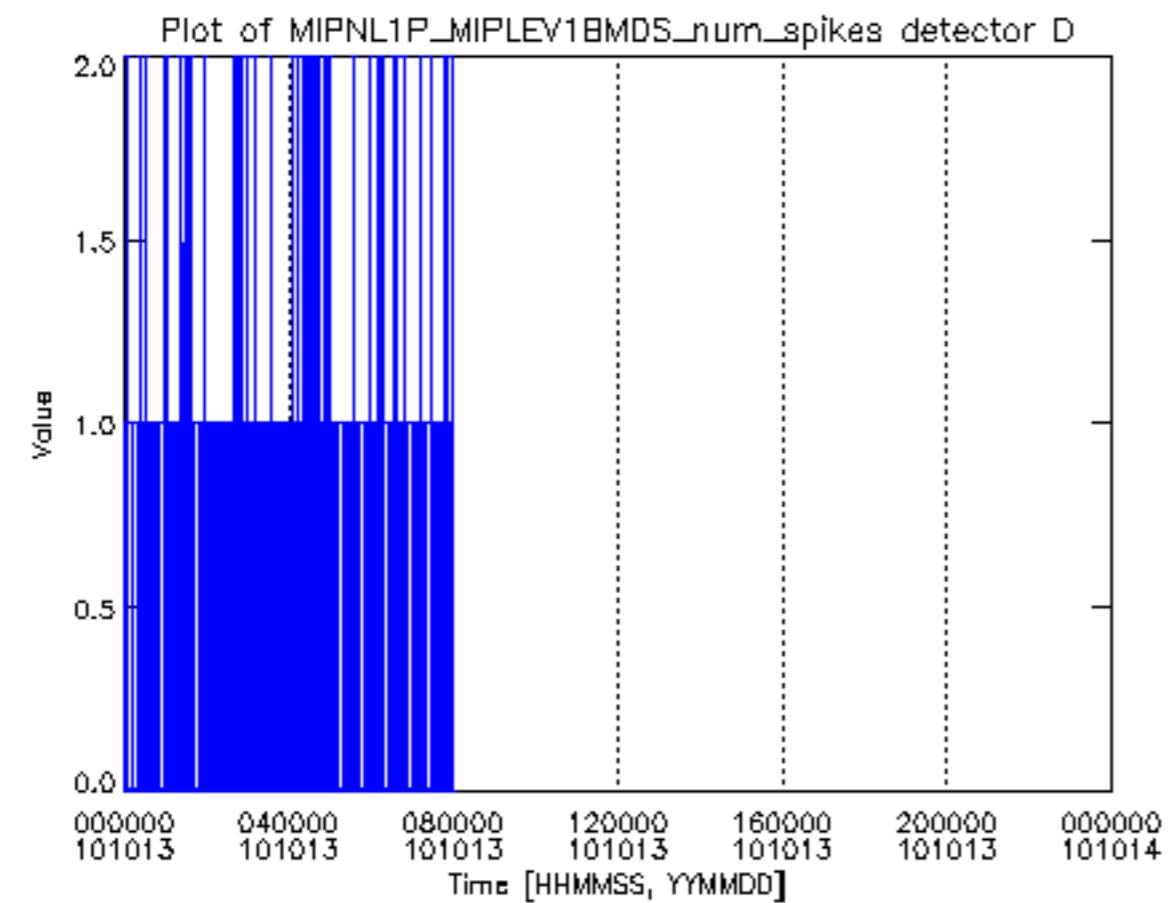


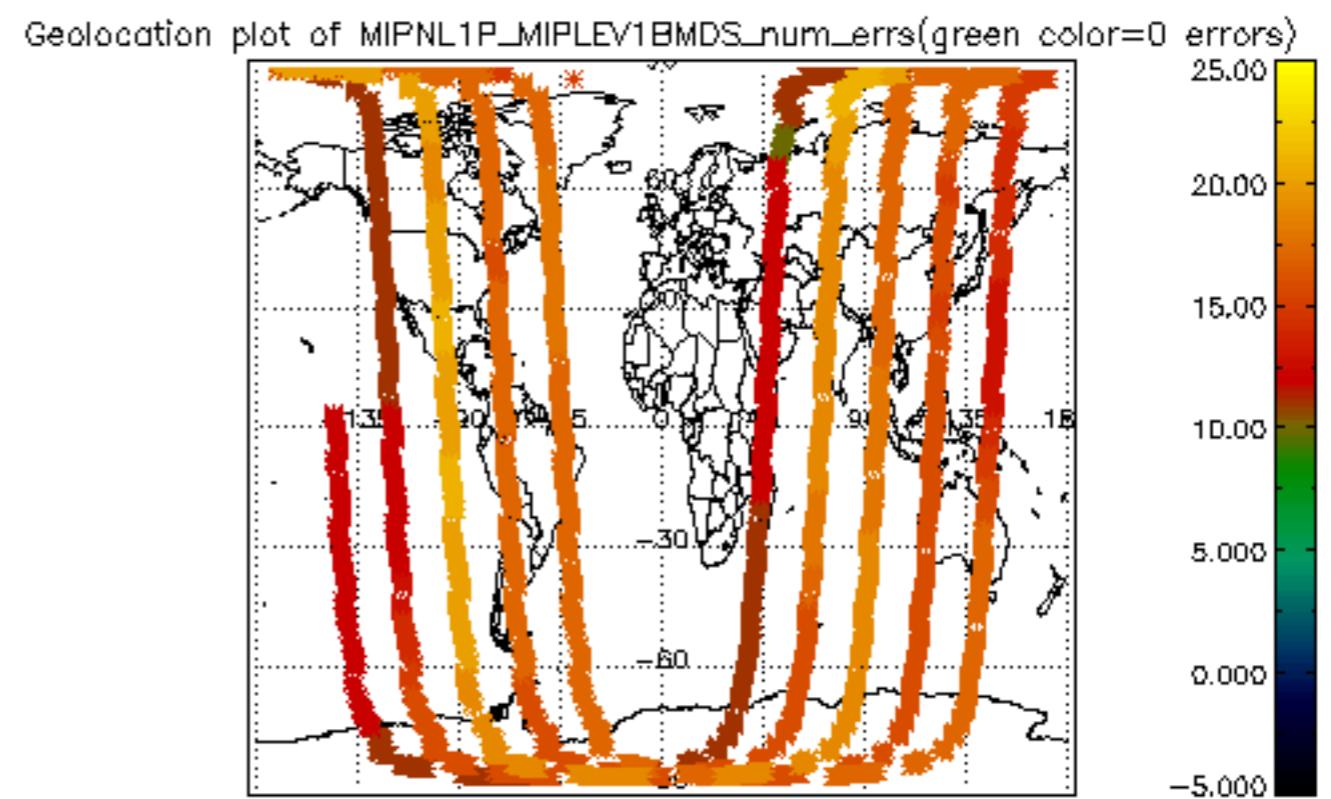
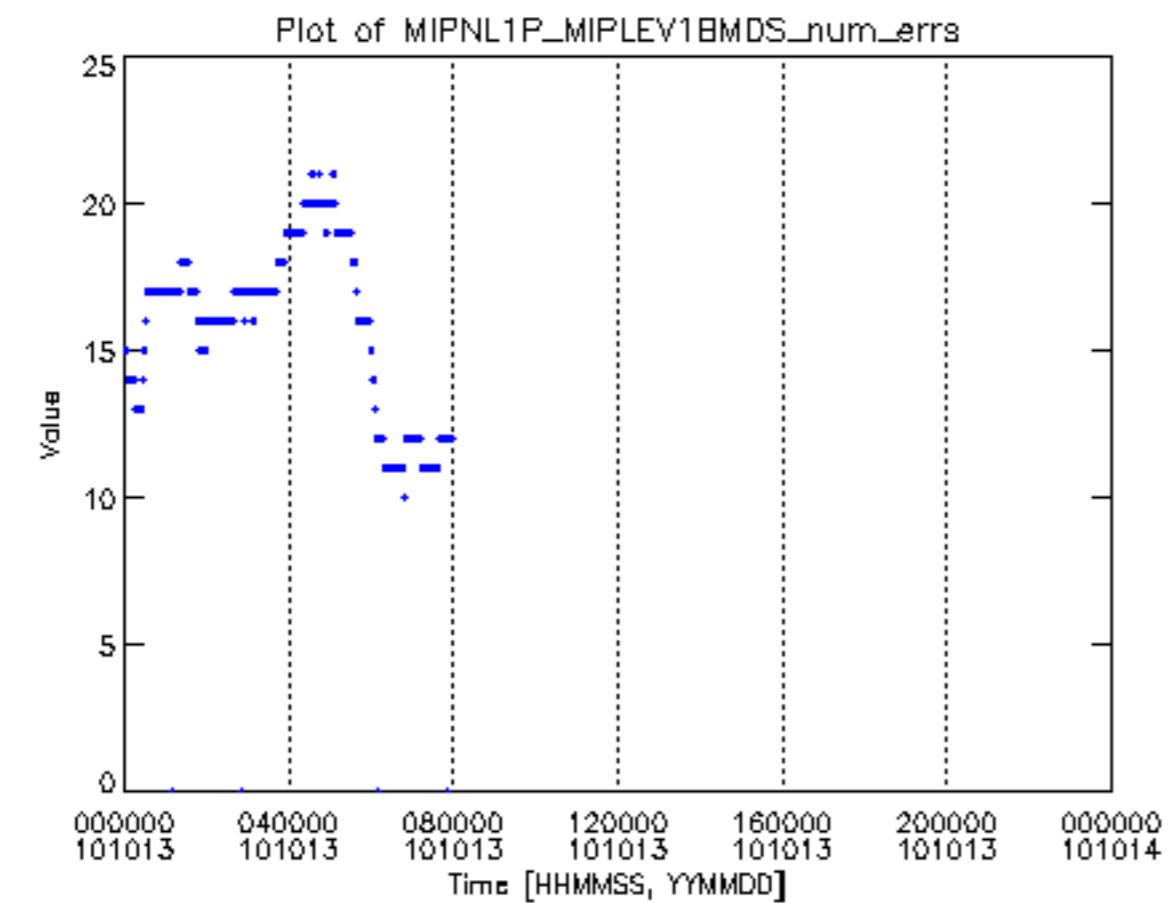


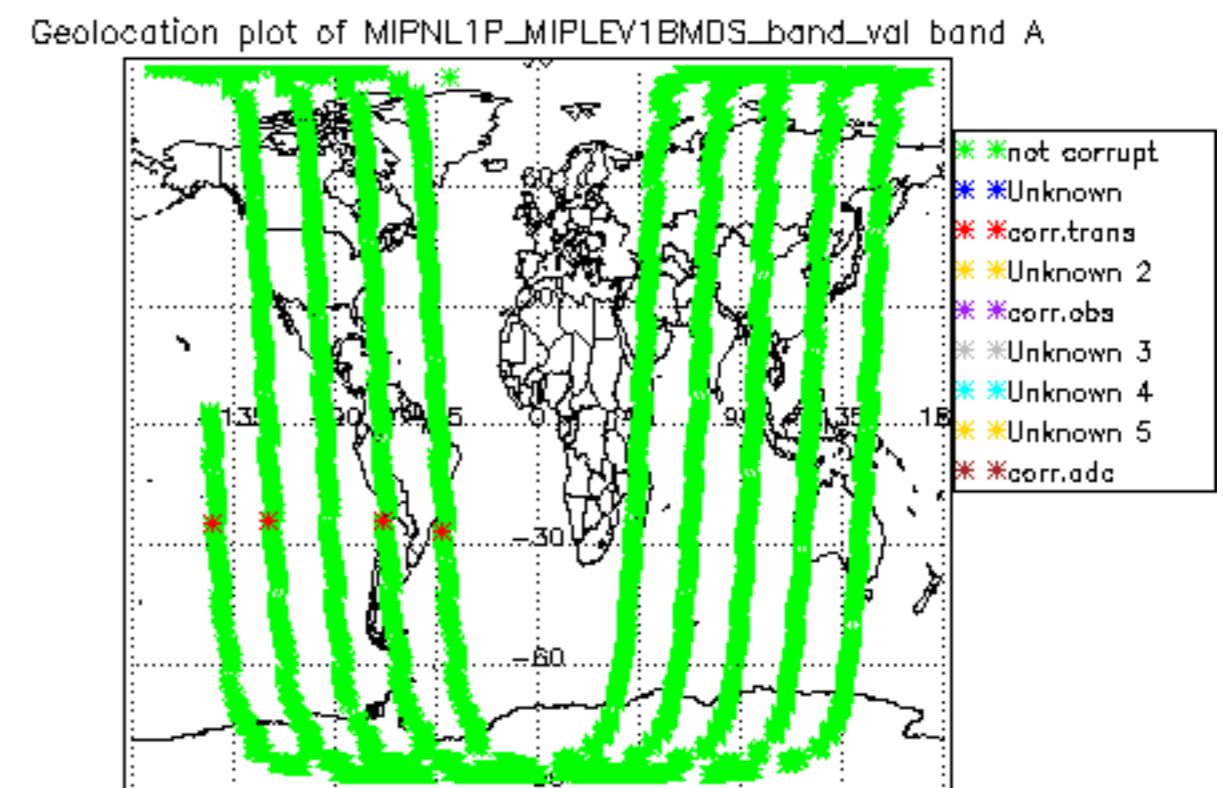
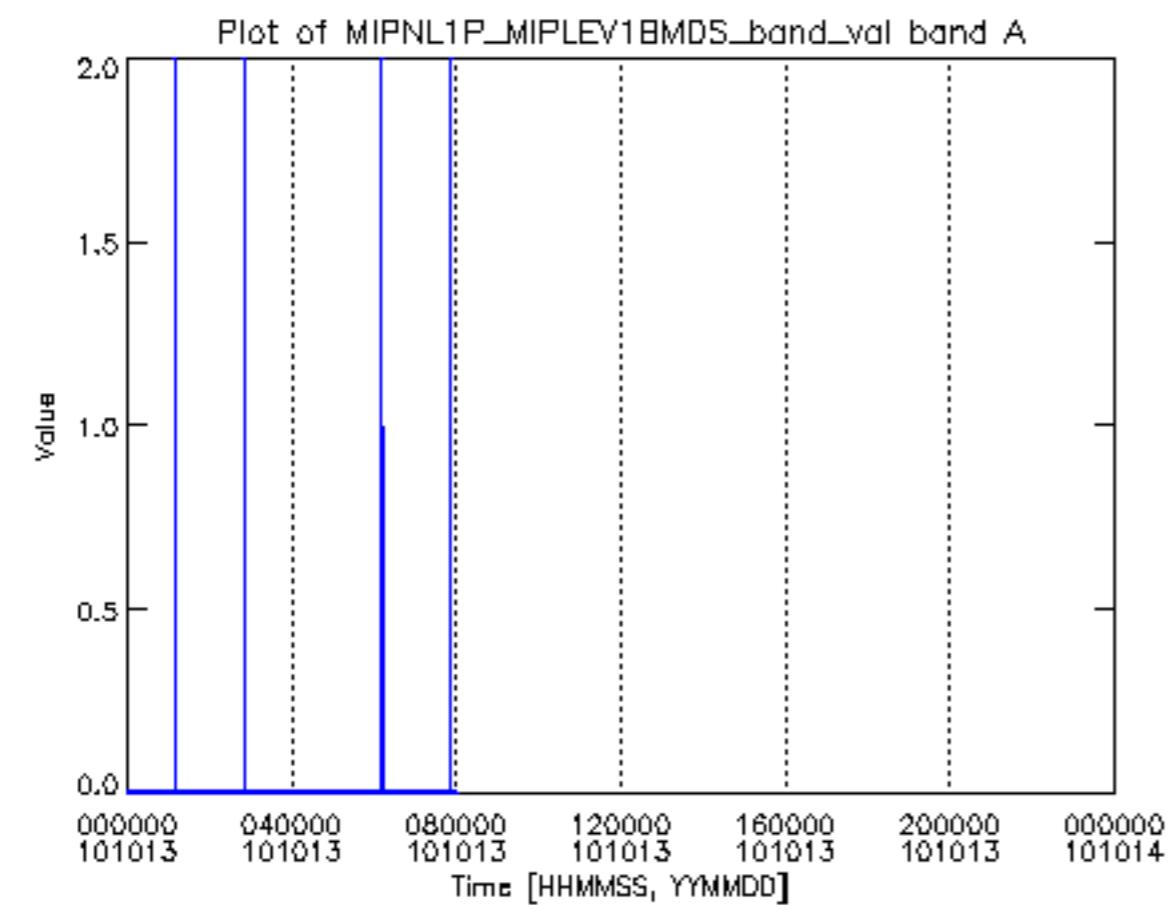


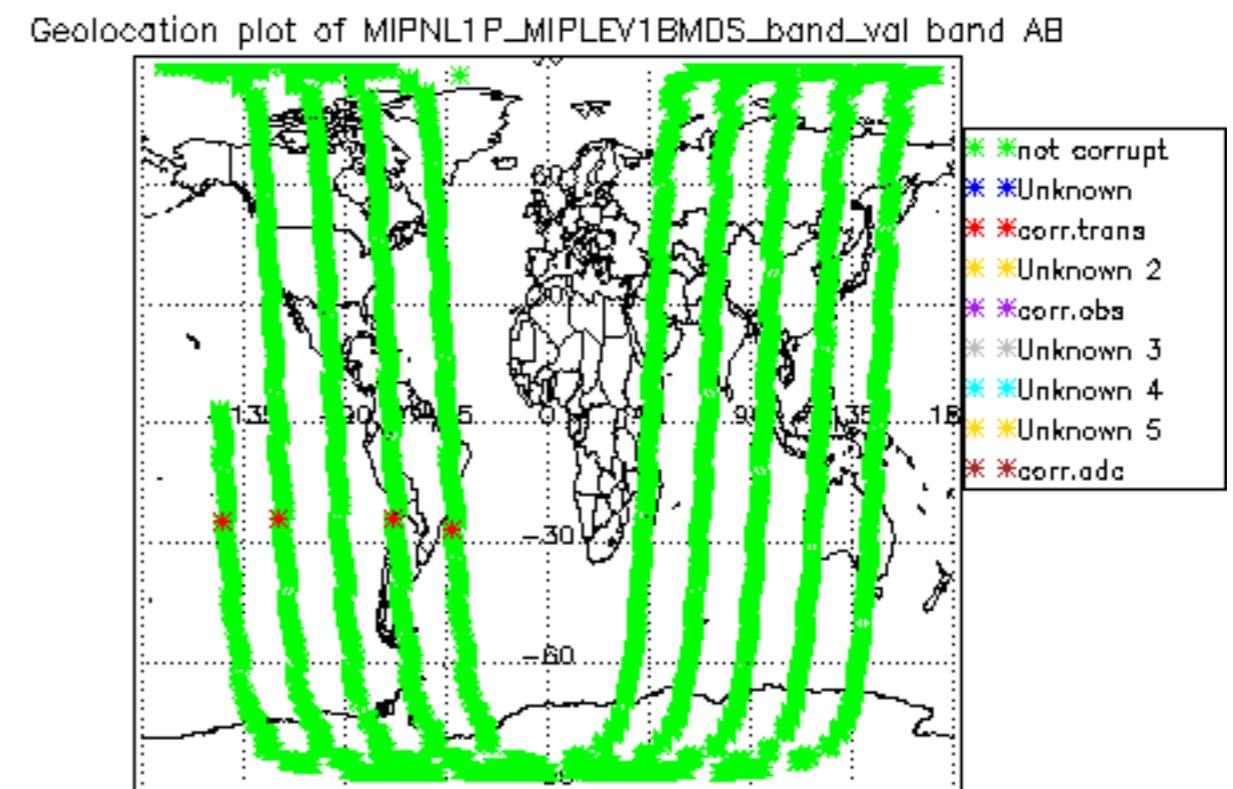
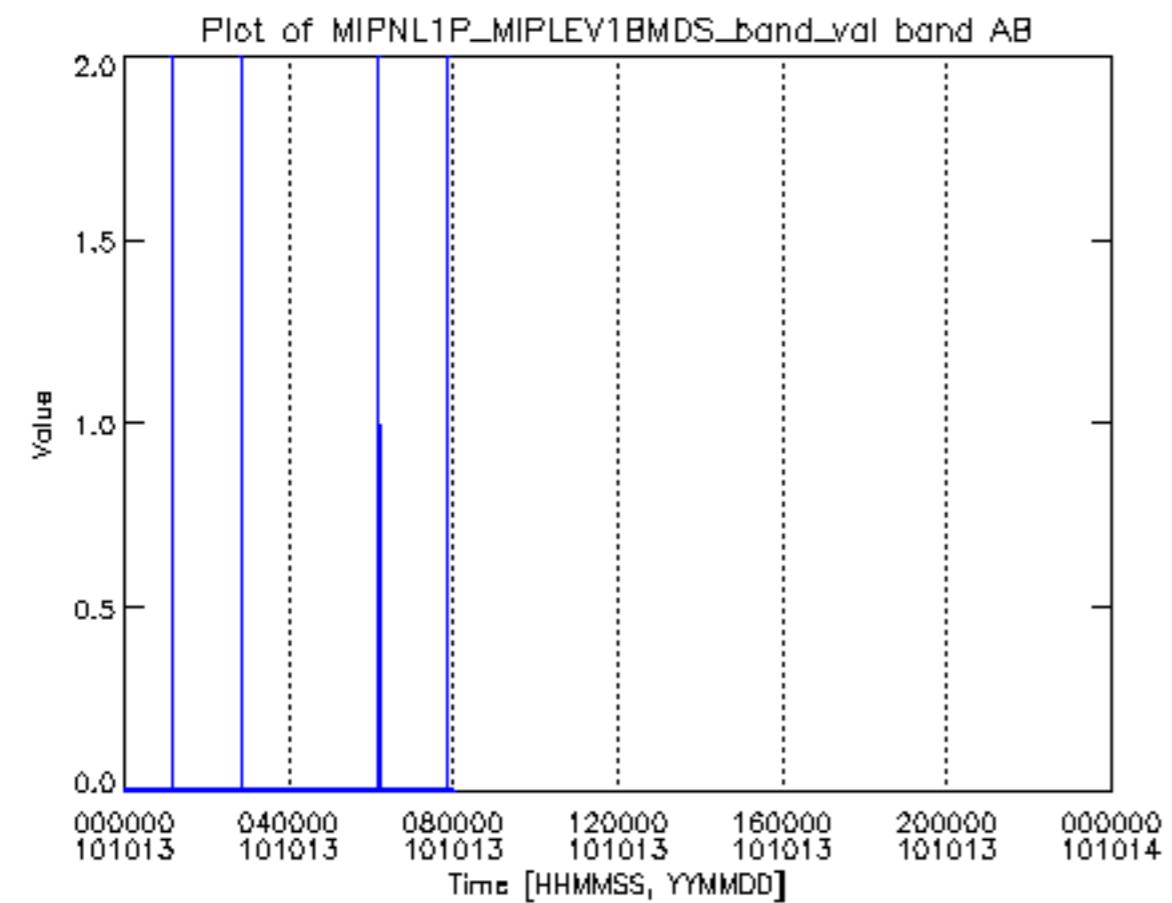


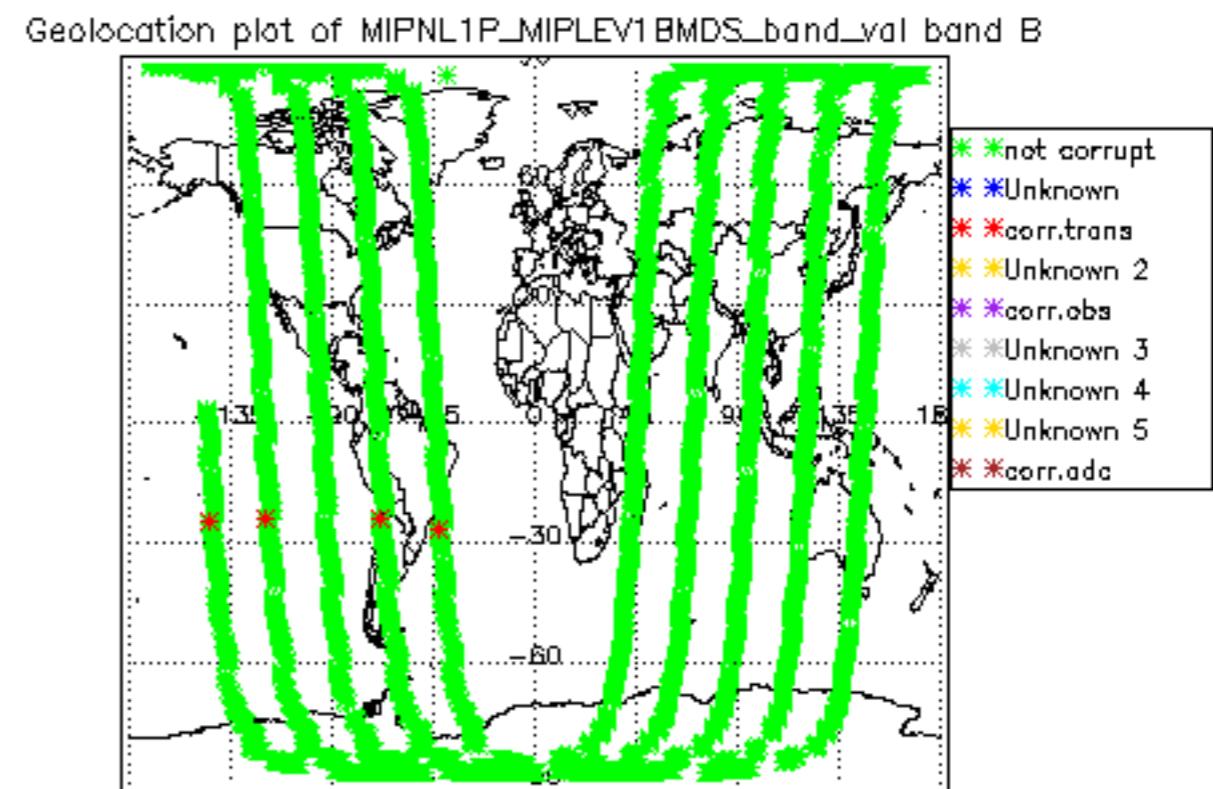
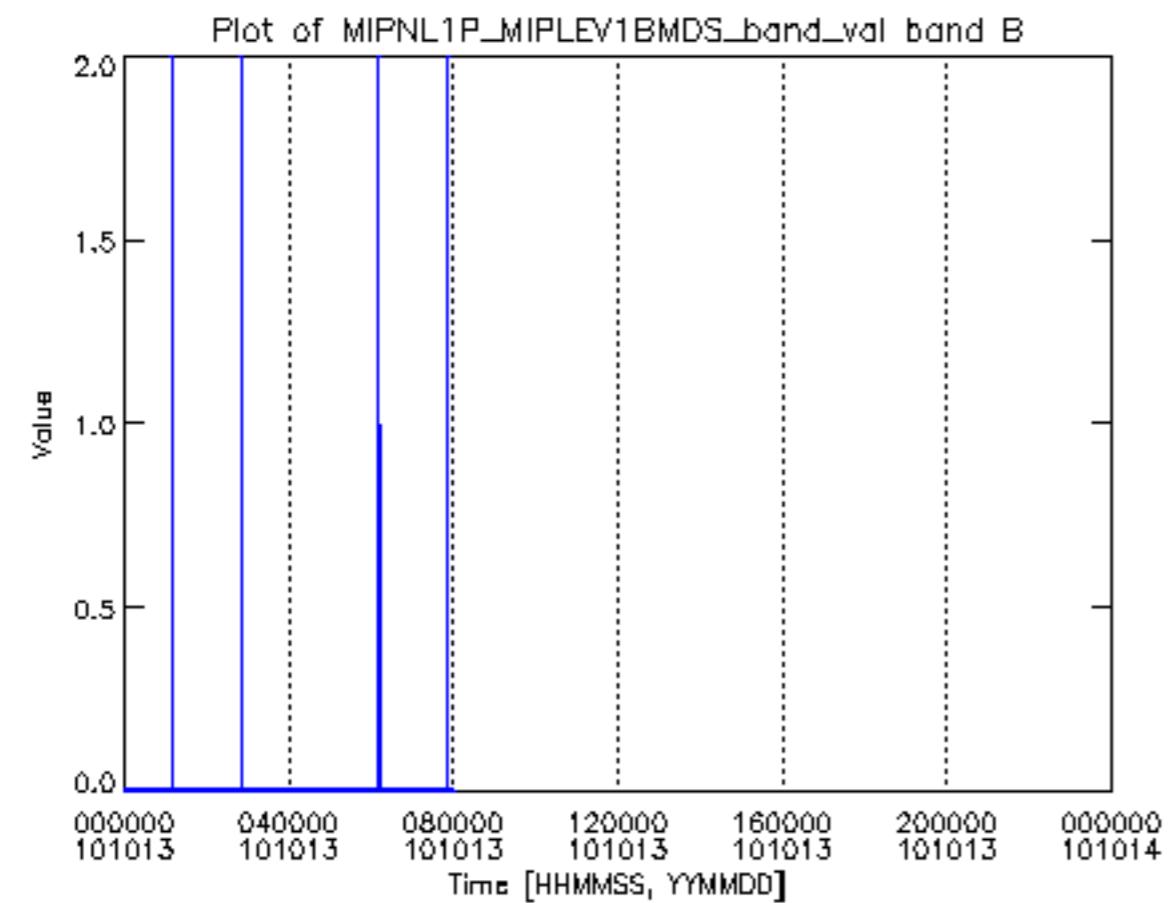


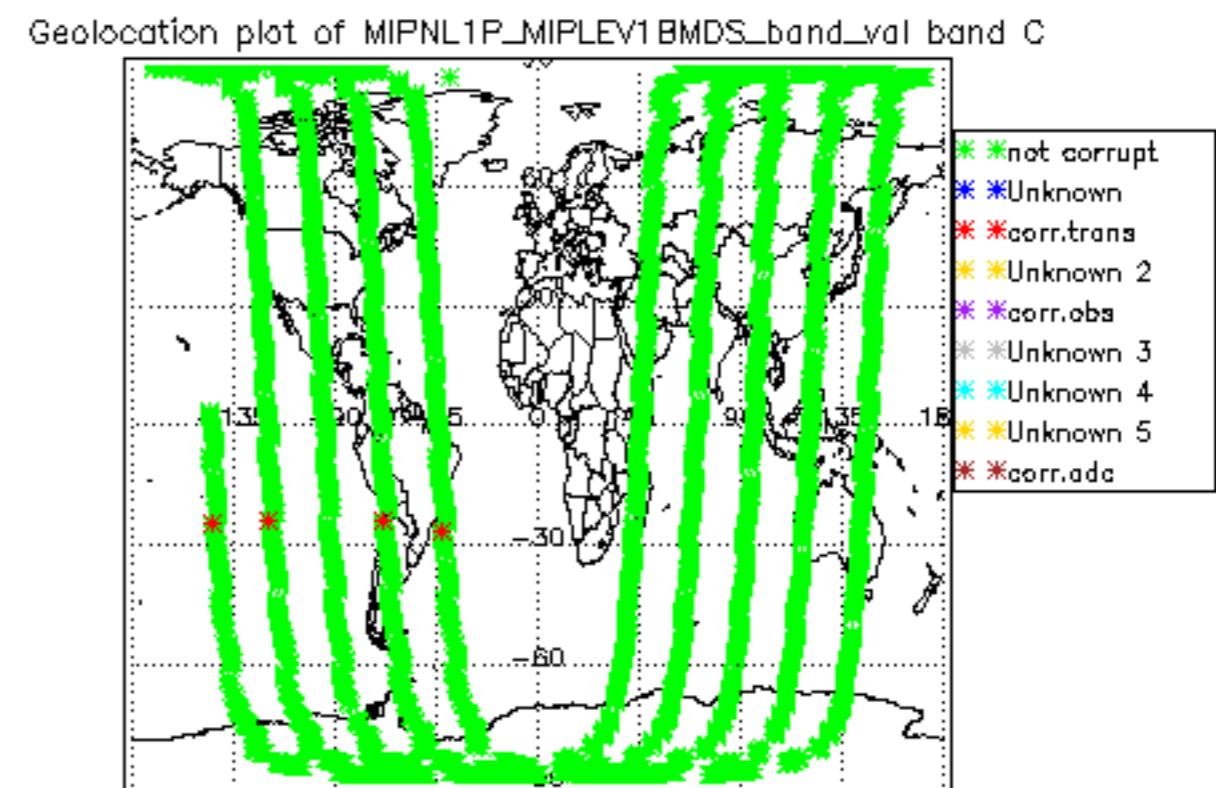
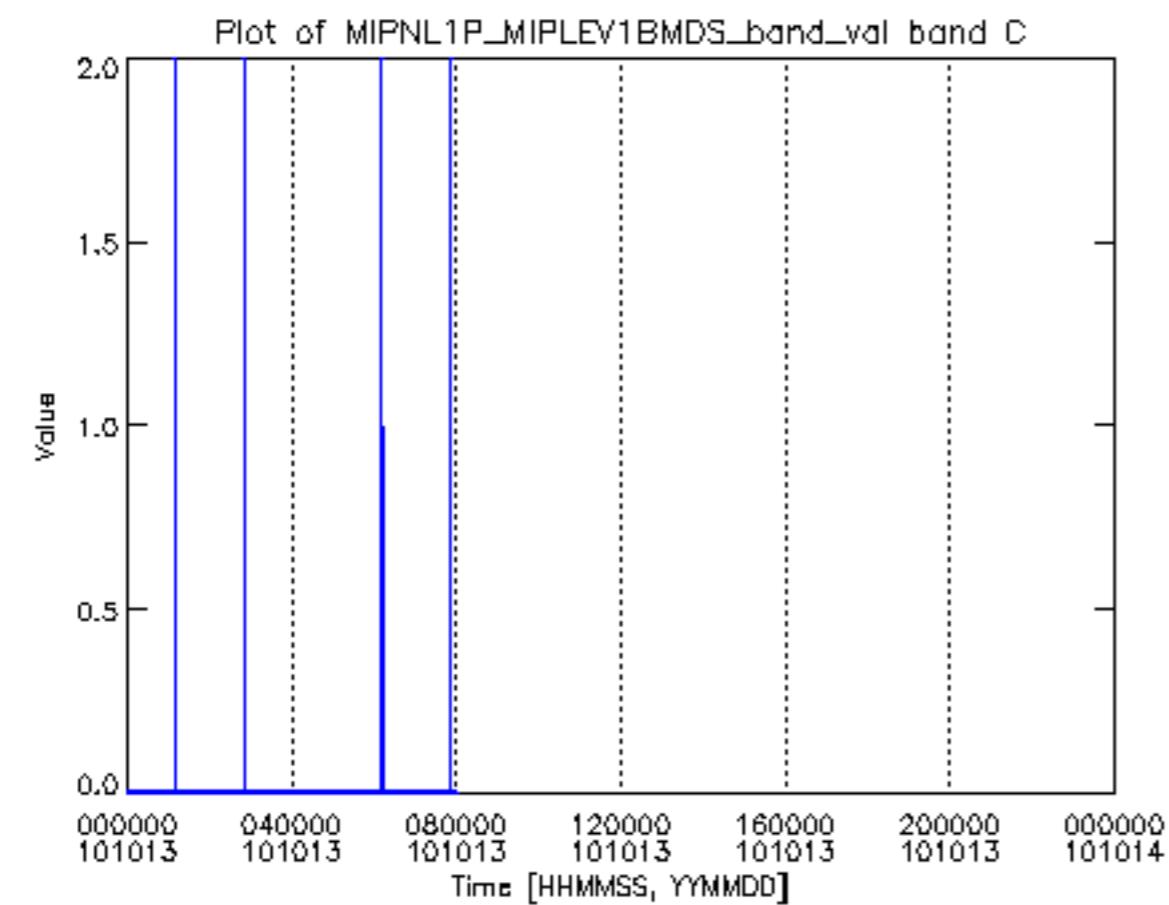


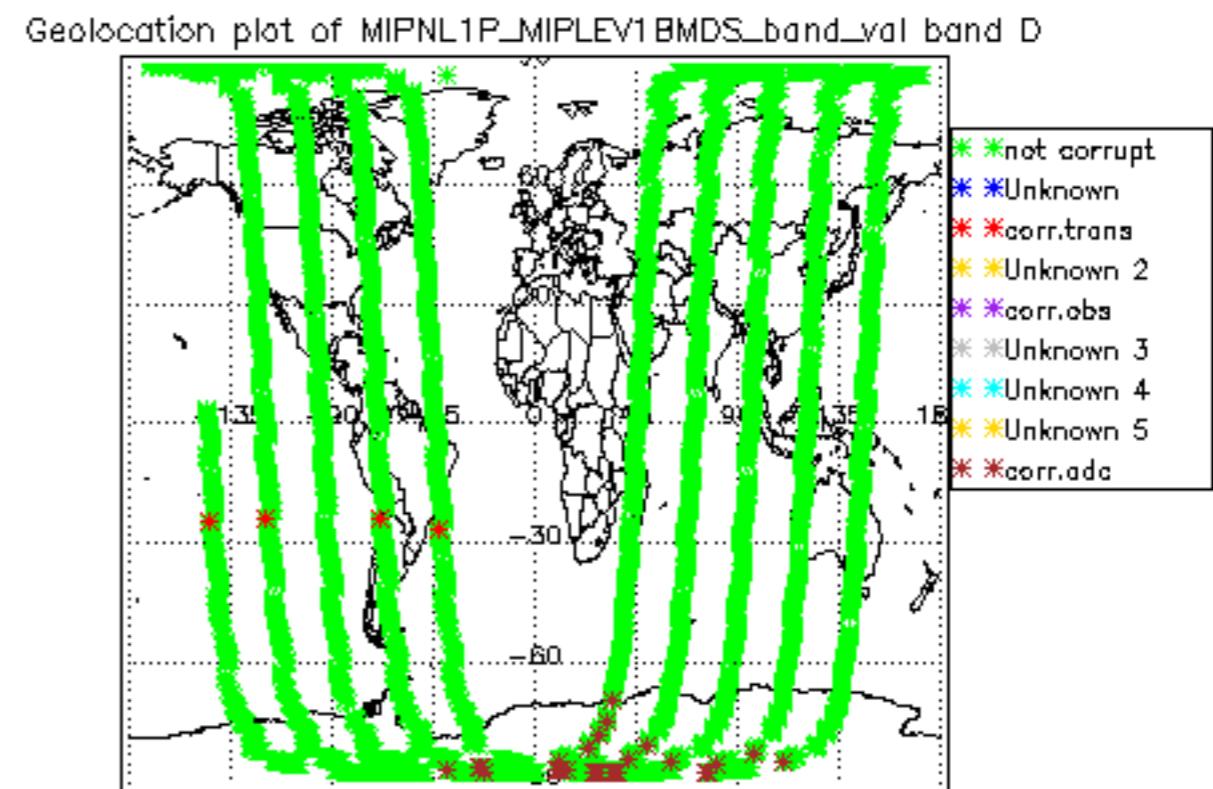
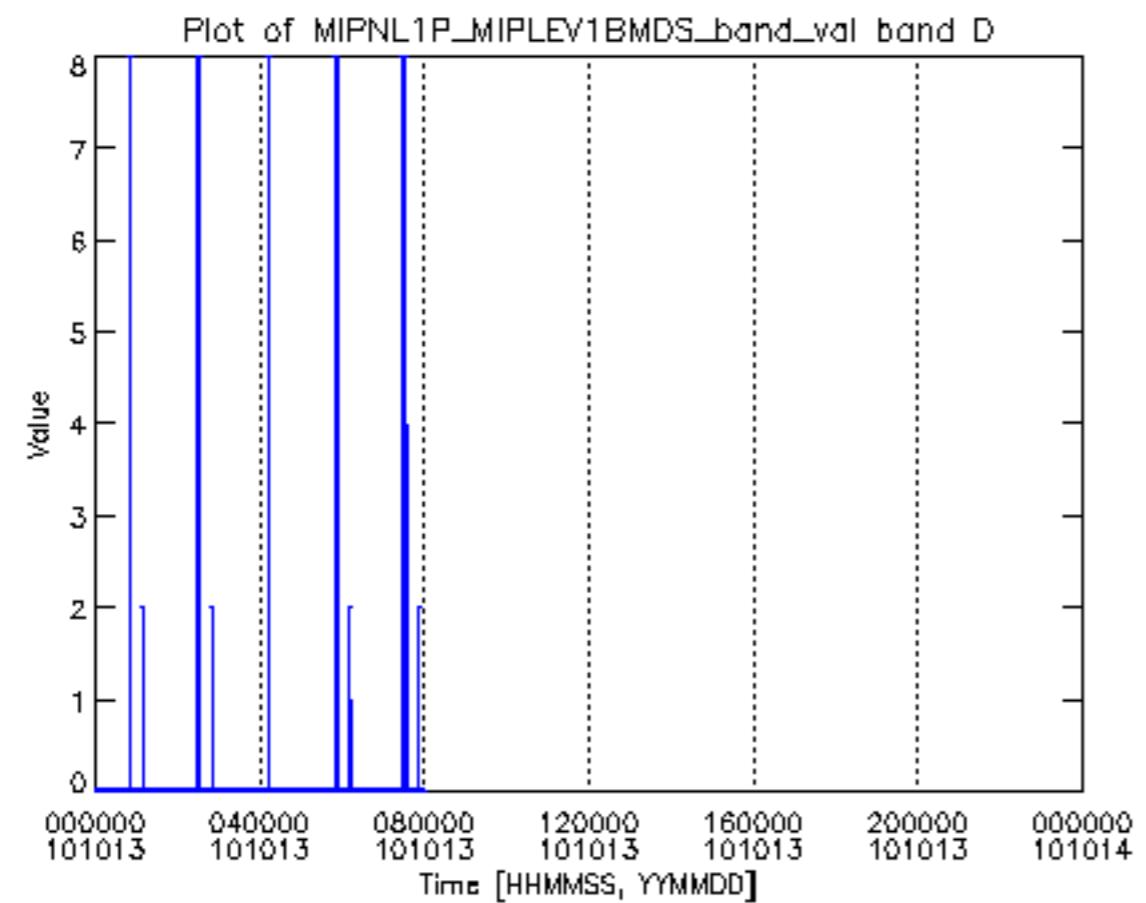


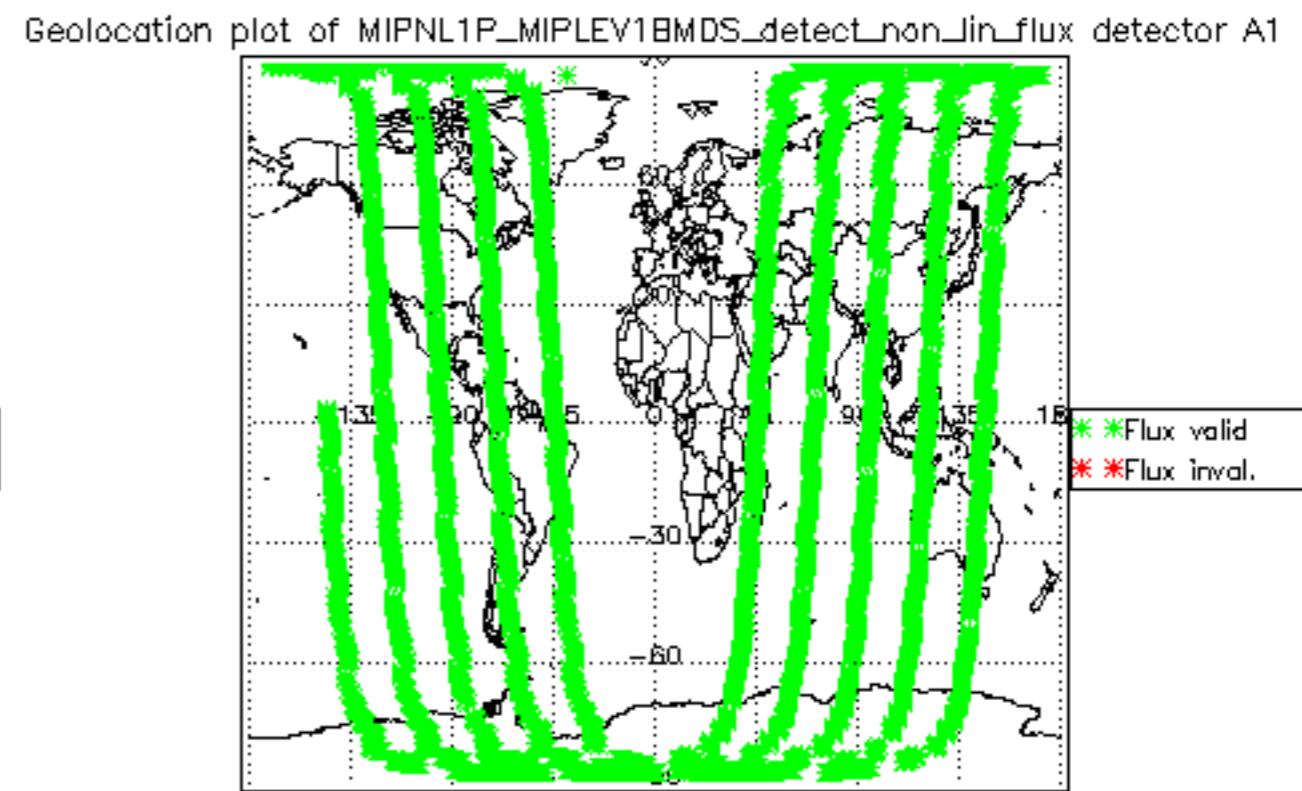
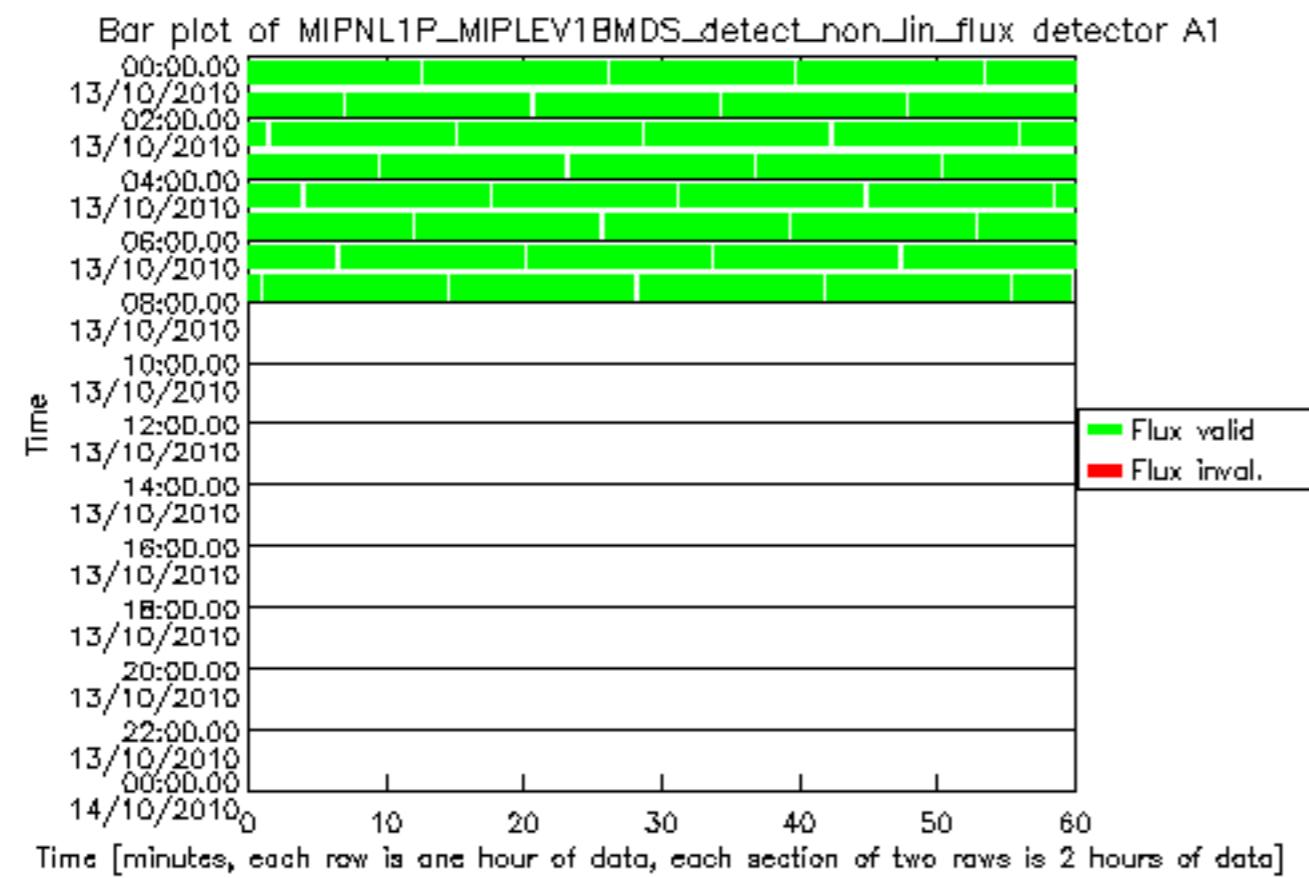


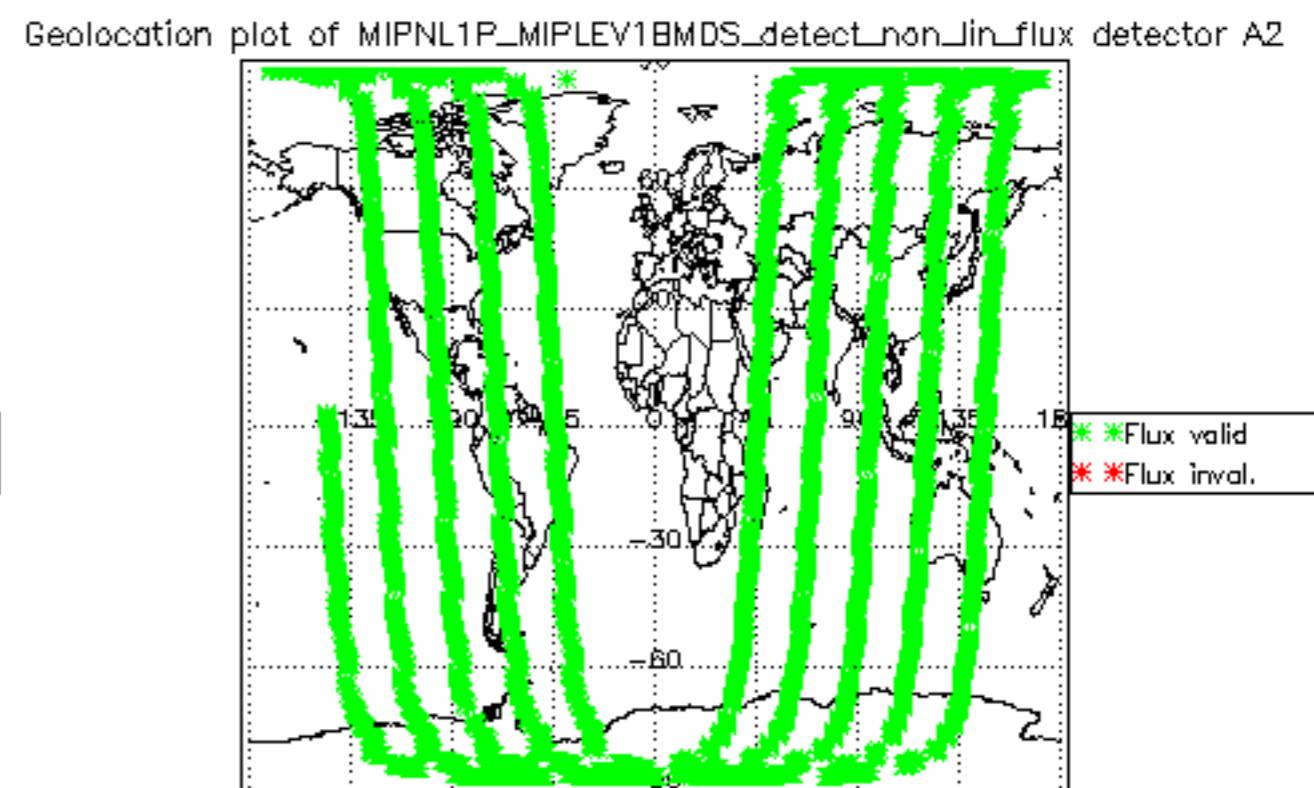
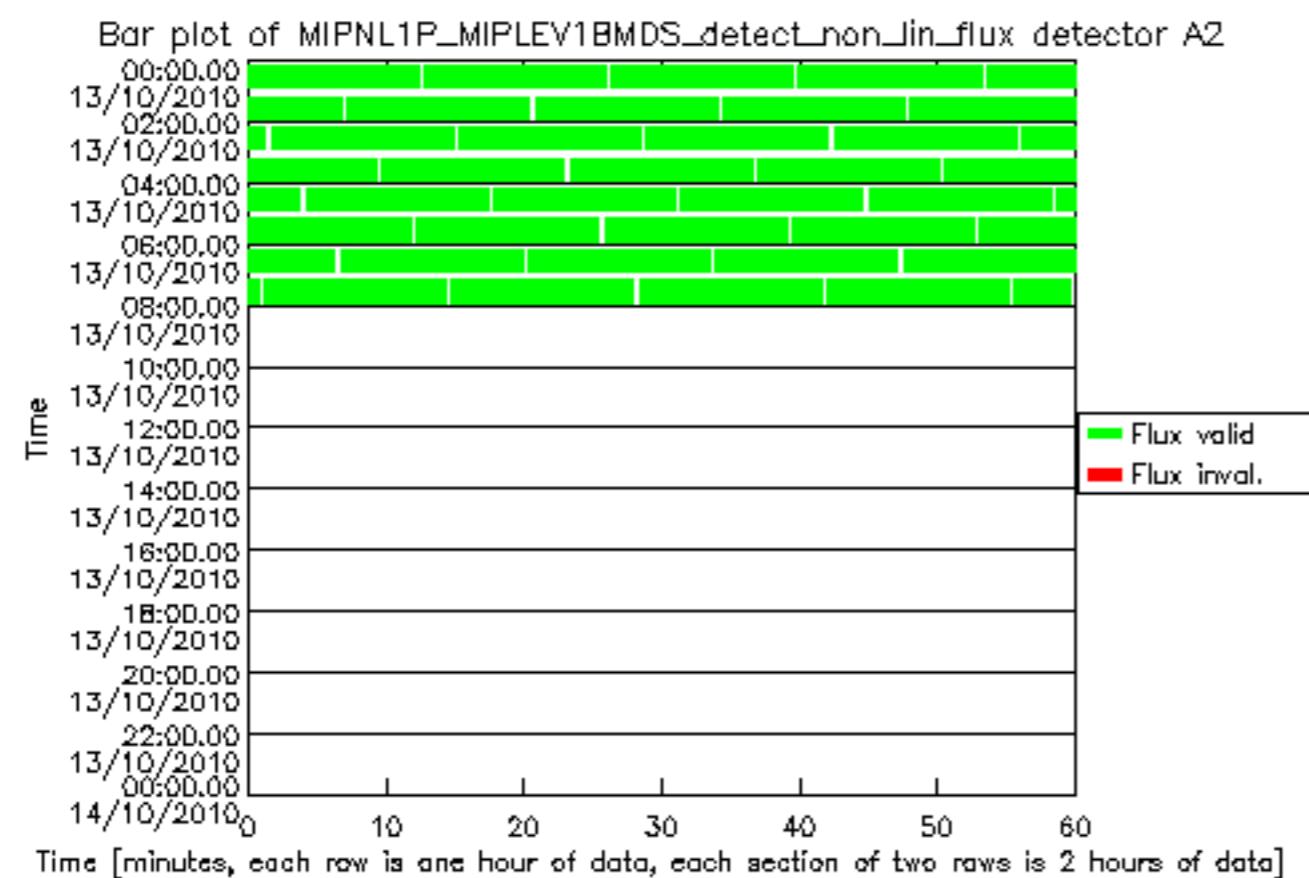


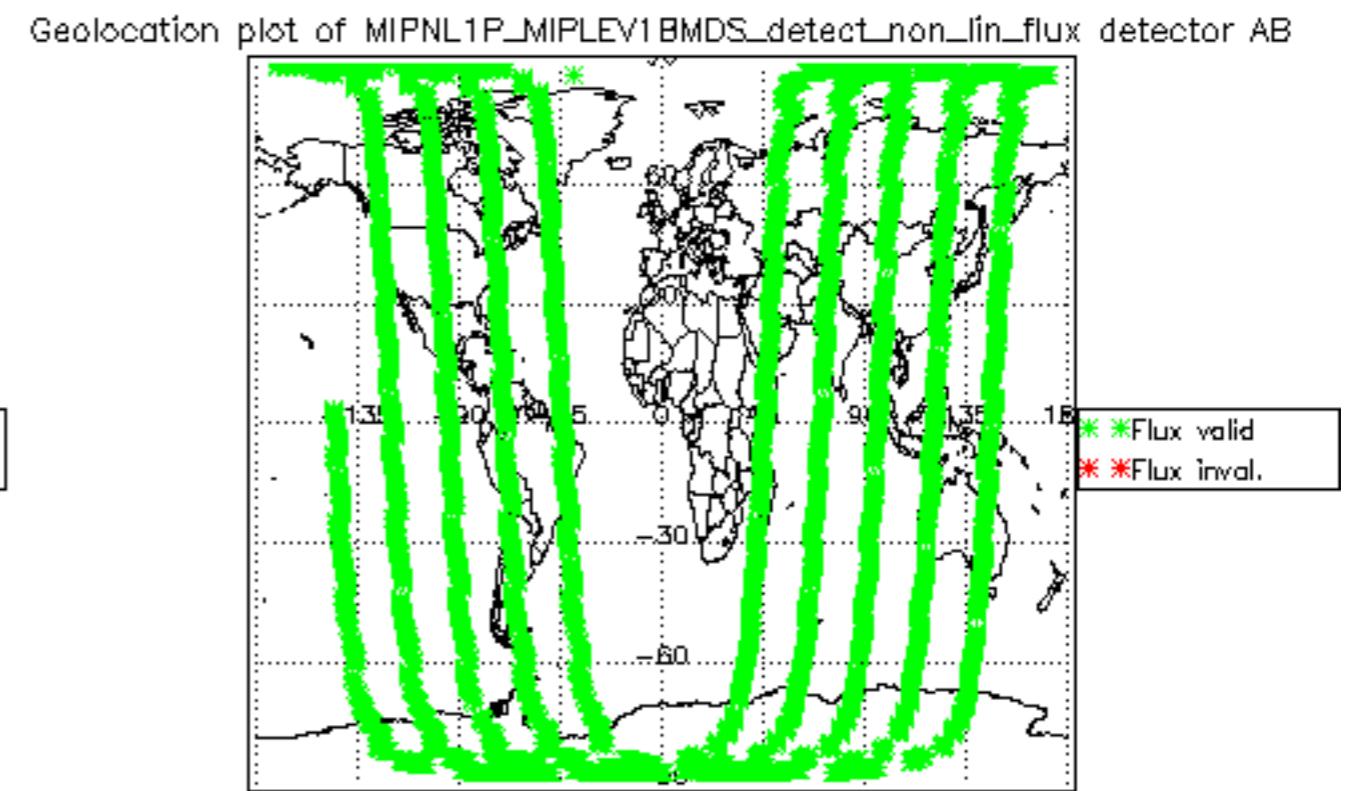
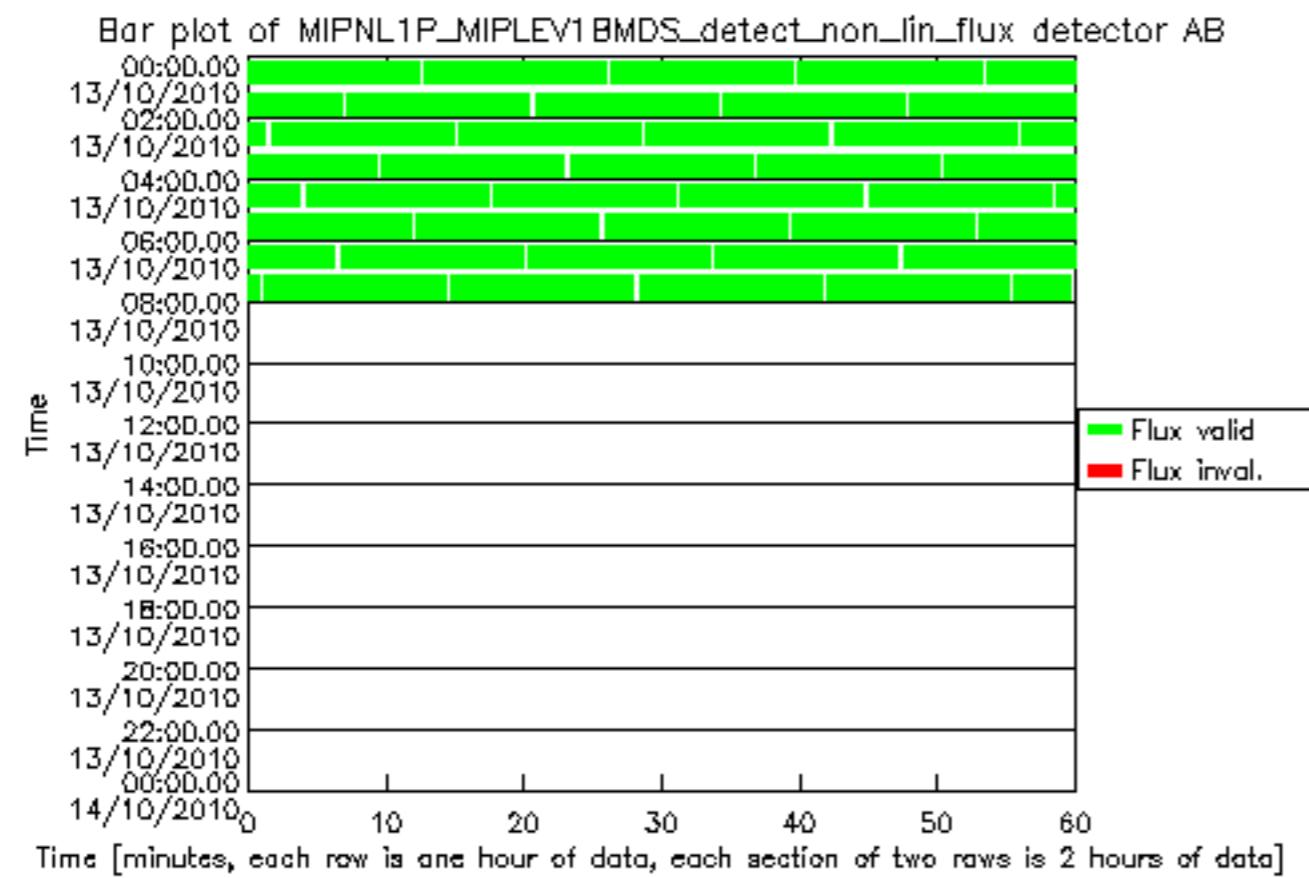


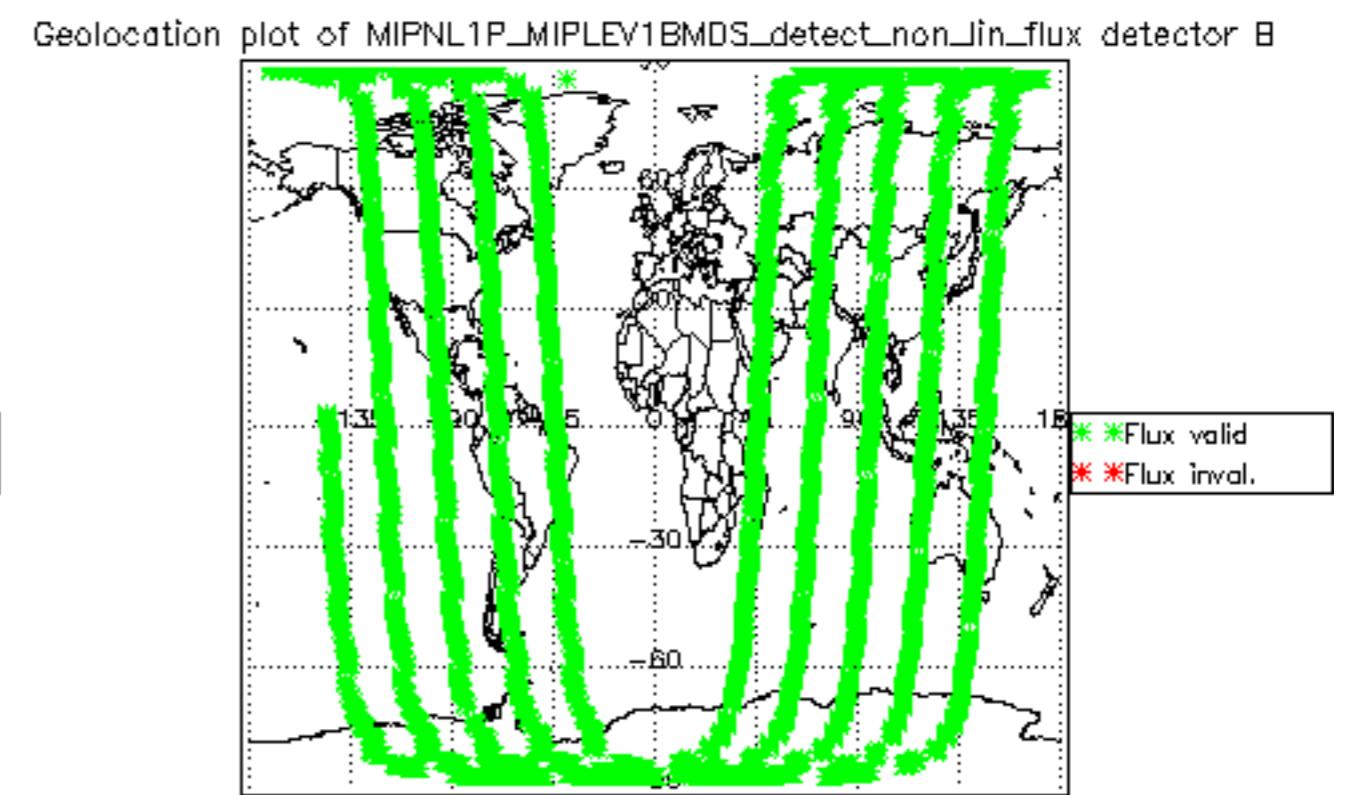
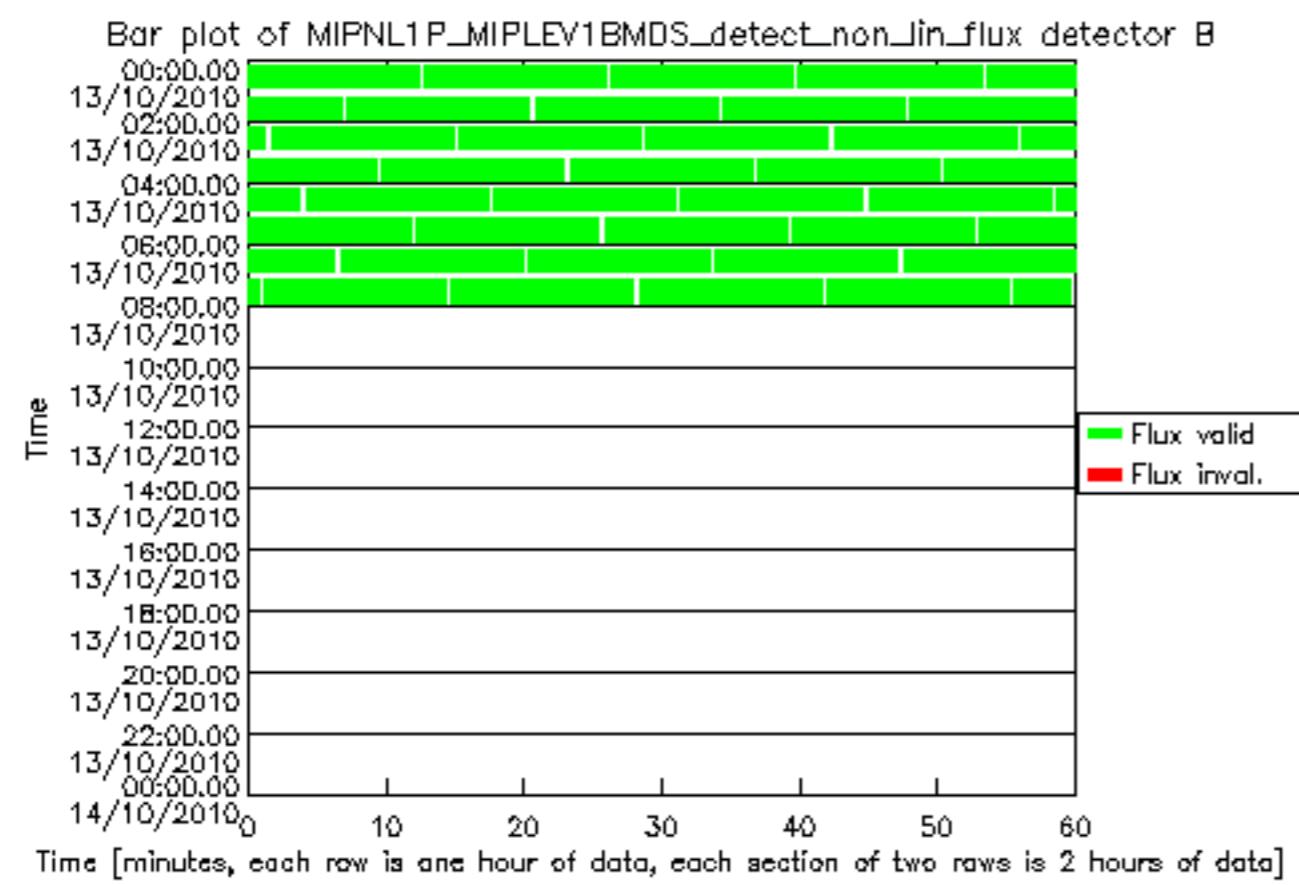


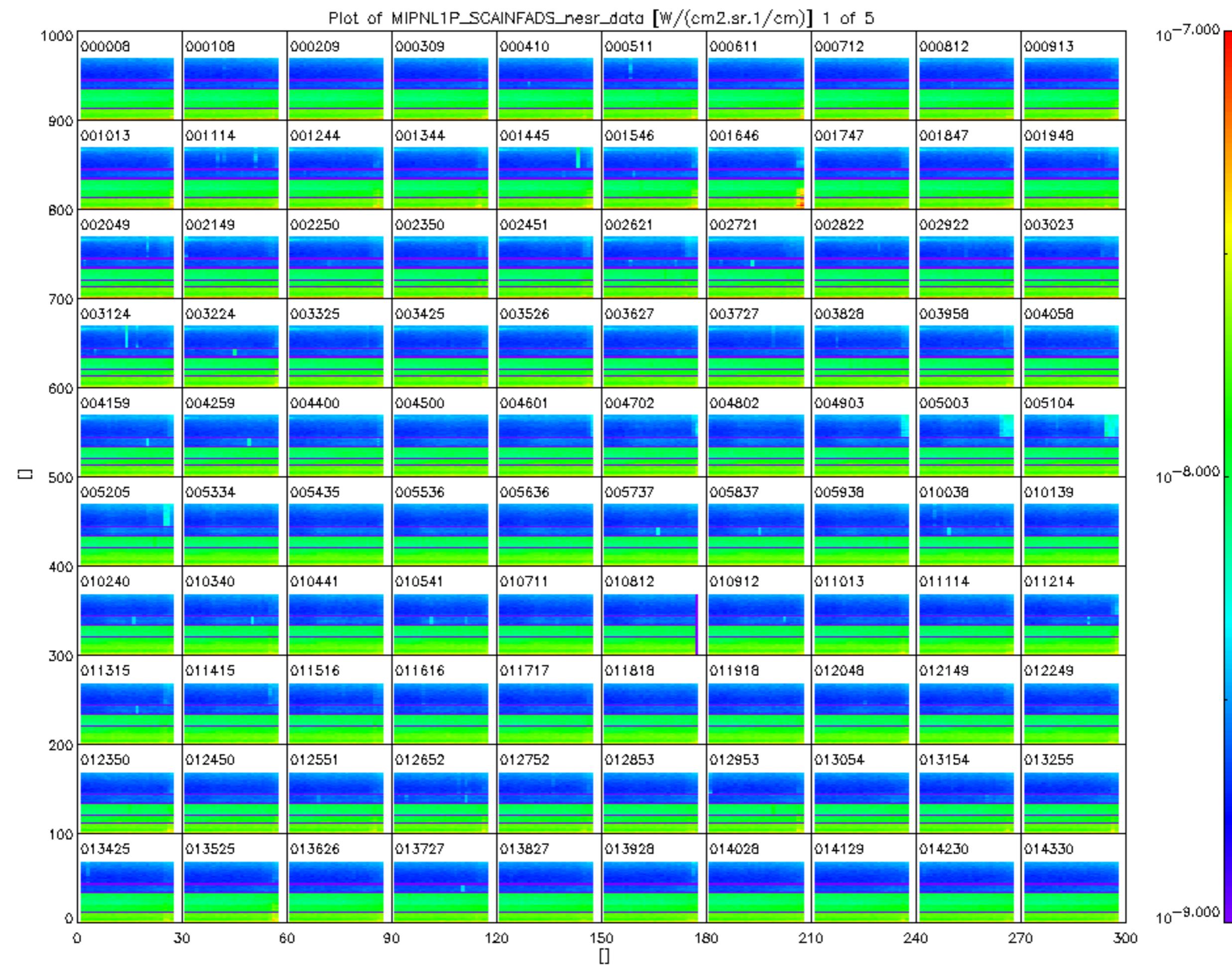


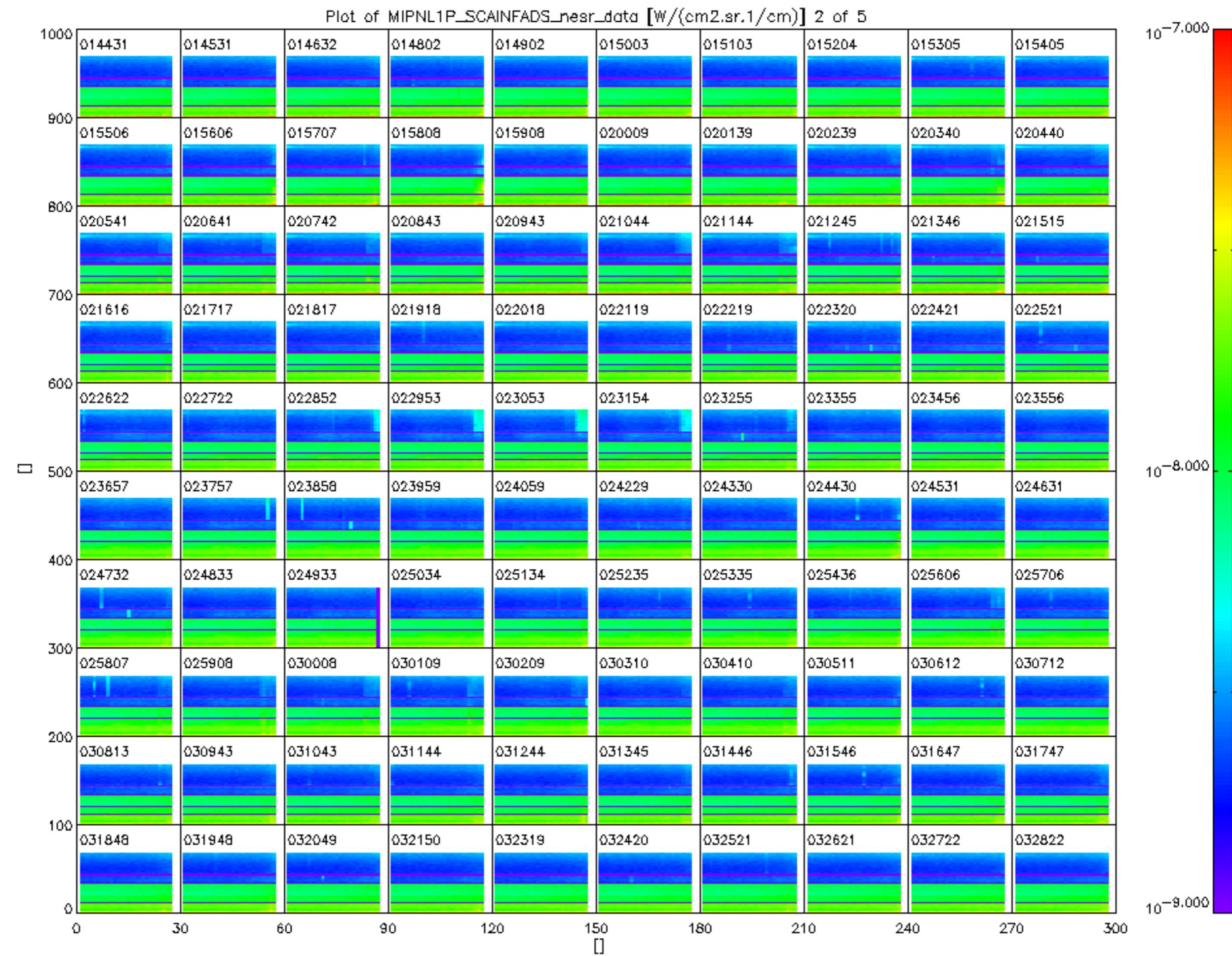




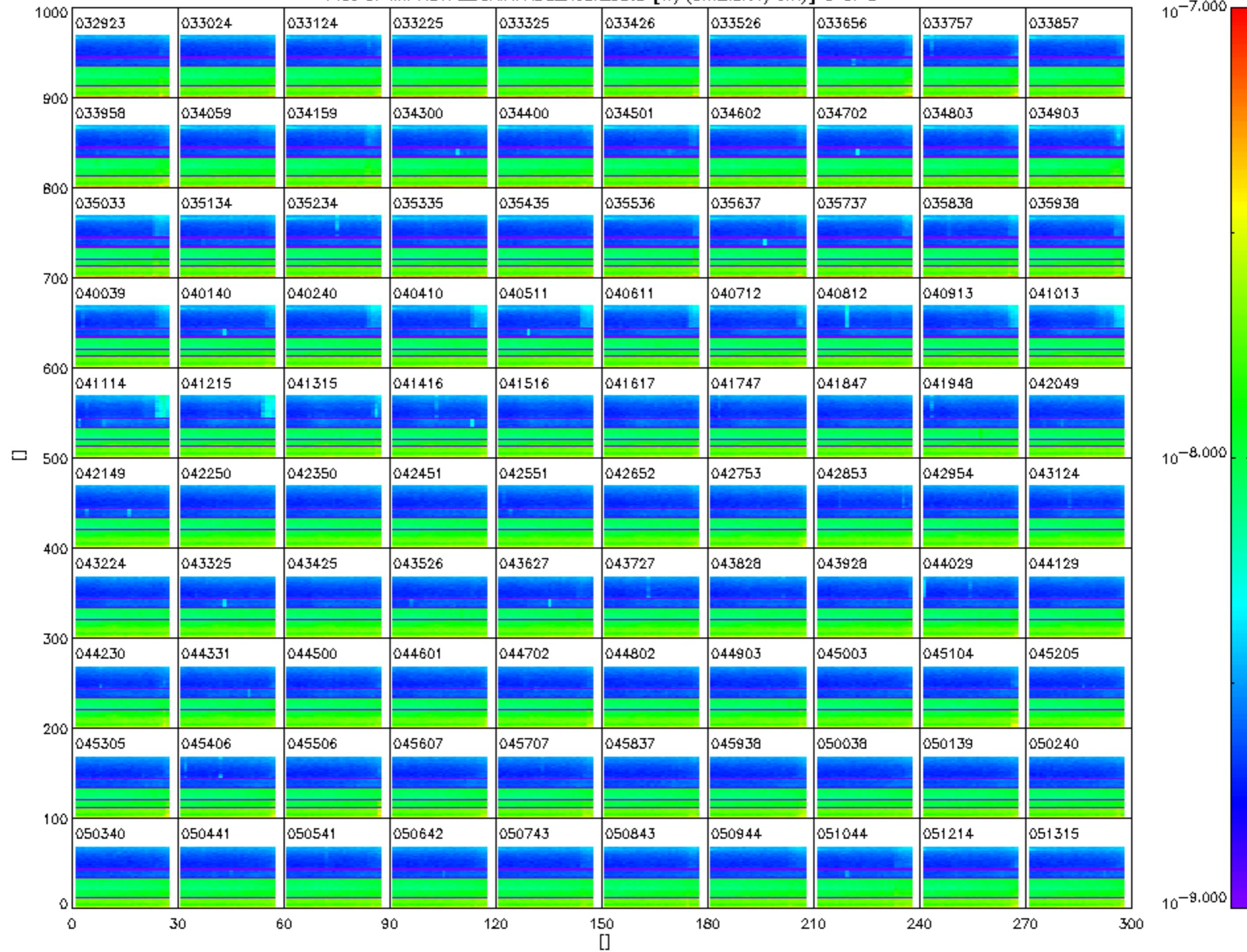




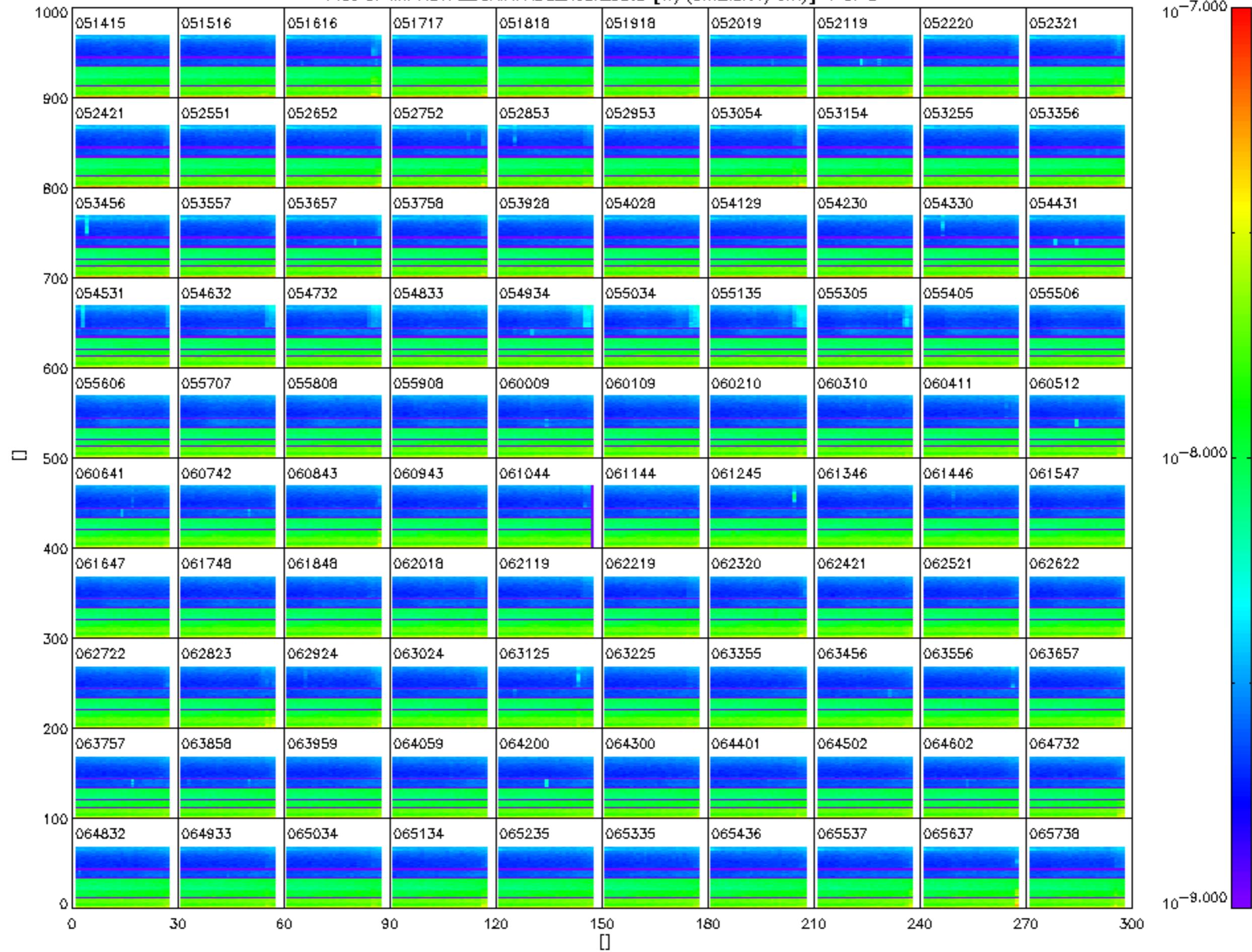




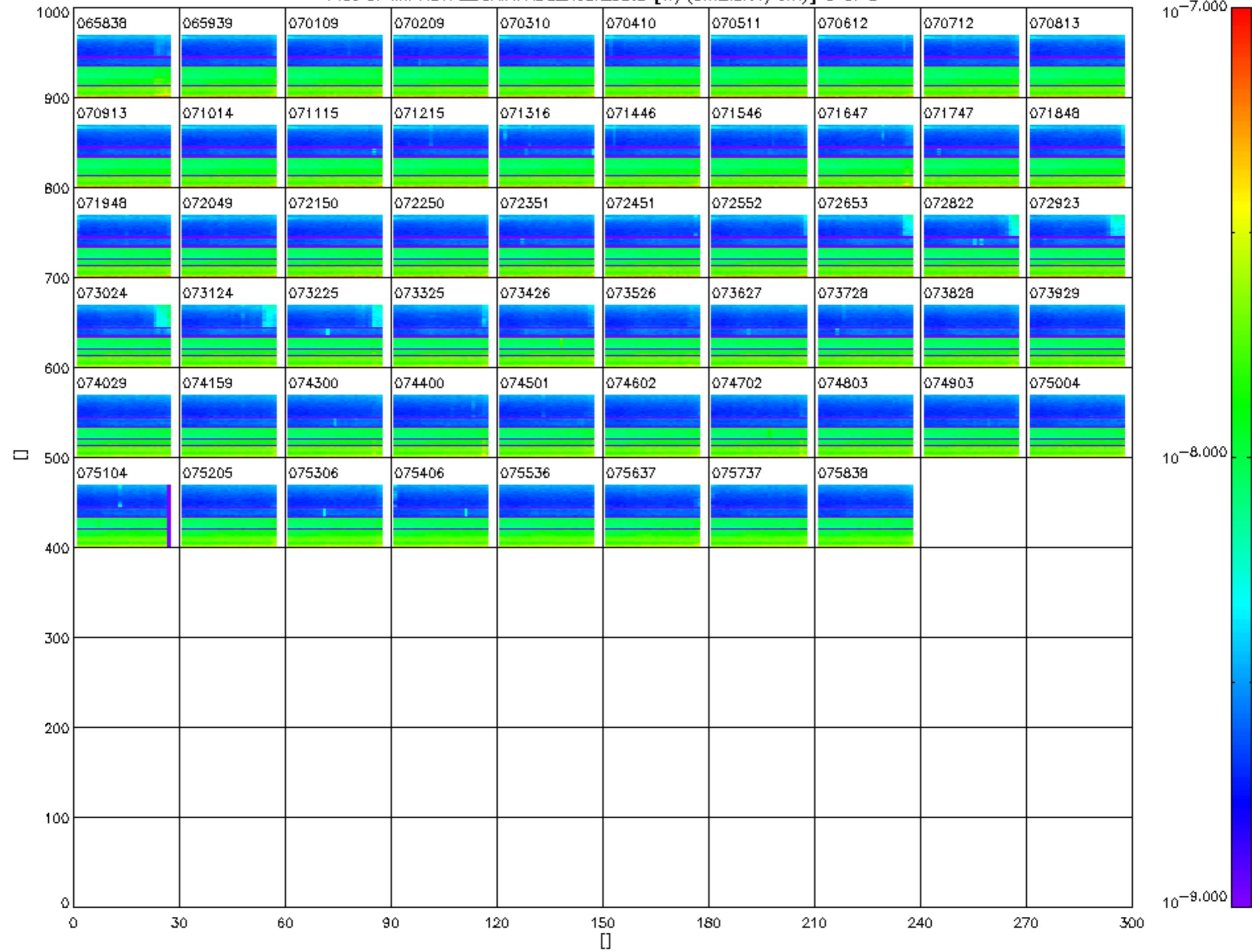
Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm².sr.1/cm)] 3 of 5



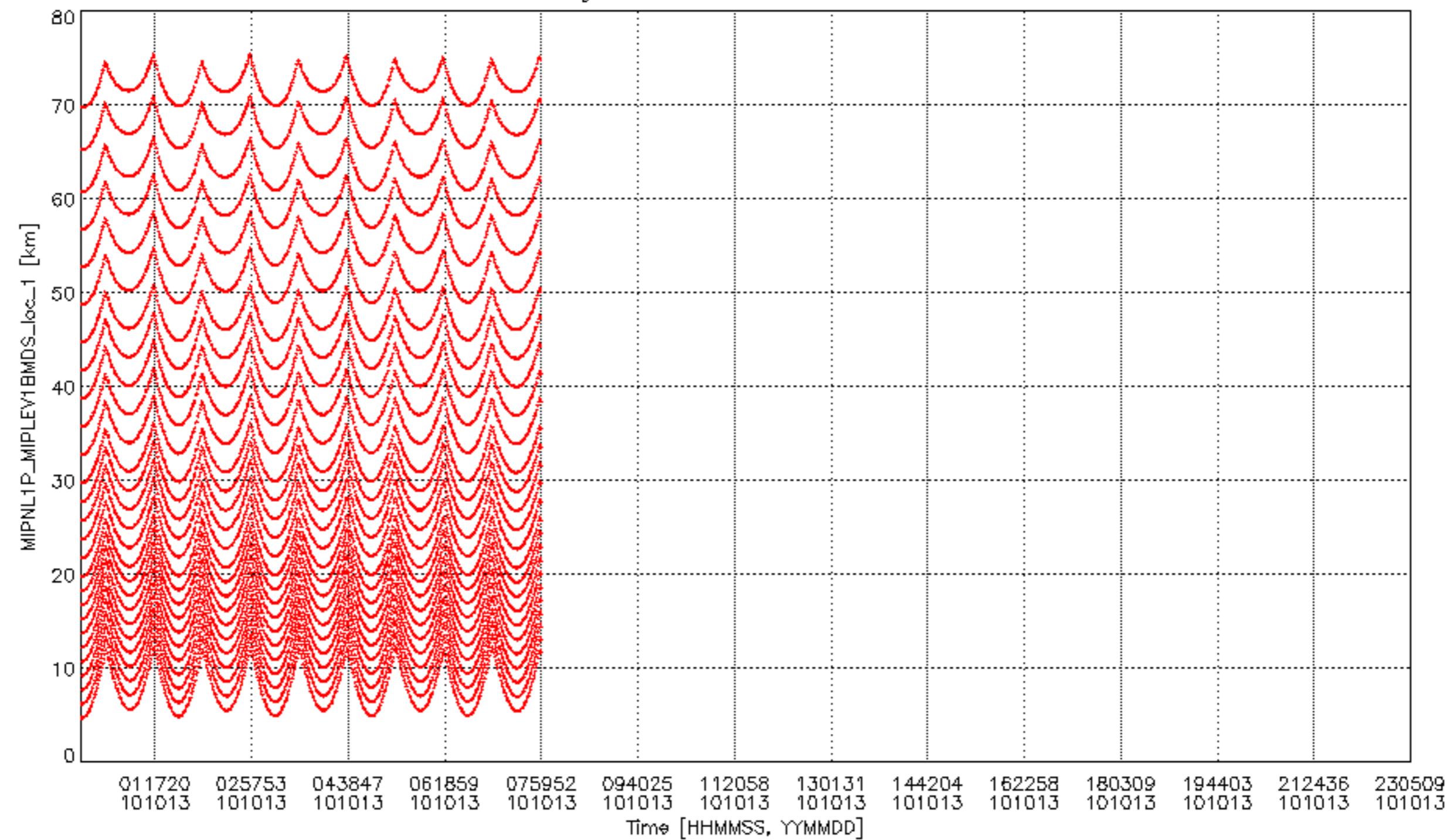
Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm².sr.1/cm)] 4 of 5



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.



Plot of MIPNL1P_MIPLEV1BMD5_loc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).

