

1. MIPAS Daily Report for level 1 products

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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 chacteristics of the data that are included into this report.

Item	Value
Report version	v1.39 28-07-2008
Time of report generation	20FEB2009 02:36:01
Data source version	MIPAS/4.67-P
Processing scope for products	02FEB2009 00:00:00 to 03FEB2009 00:00:00
Start time of first product within scope	02FEB2009 01:32:27
Stop time of last product within scope	03FEB2009 01:00:44
Total number of level 1 products	14
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.

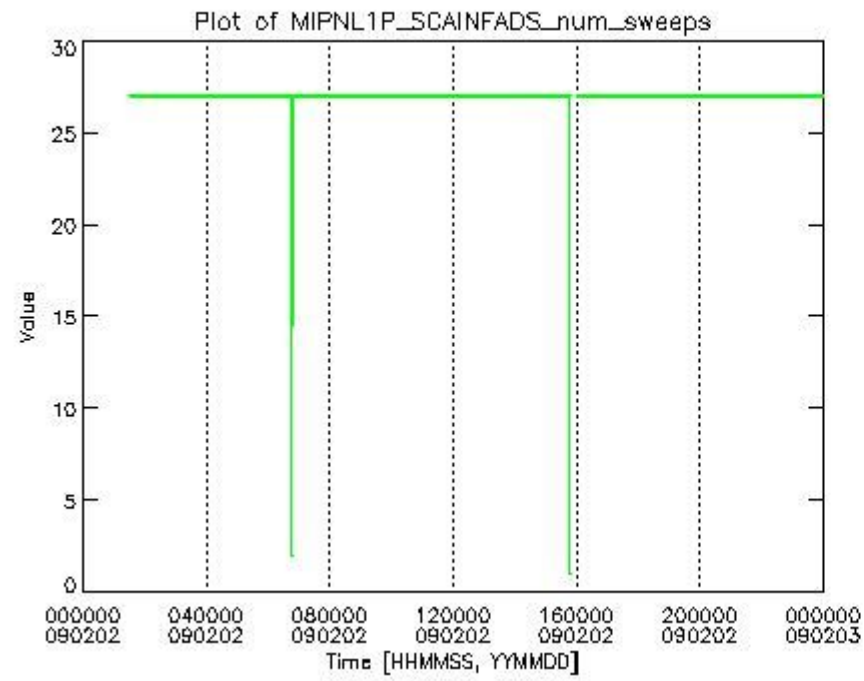
Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)	#sweeps SPH
0	MIP_NL__1PPDPA20090202_013227_000060152076_00089_36215_8941.N1	02FEB2009 01:32:27	02FEB2009 03:12:42	0	1/1	27
1	MIP_NL__1PPDPA20090202_031318_000060152076_00090_36216_8943.N1	02FEB2009 03:13:18	02FEB2009 04:53:32	0	1/1	27
2	MIP_NL__1PPDPA20090202_045339_000060152076_00091_36217_8945.N1	02FEB2009 04:53:39	02FEB2009 06:33:53	0	1/1	27
3	MIP_NL__1PPDPA20090202_063400_000060312076_00091_36217_8950.N1	02FEB2009 06:34:00	02FEB2009 08:14:31	0	1/1	27
4	MIP_NL__1PPDPA20090202_081437_000060762076_00093_36219_8952.N1	02FEB2009 08:14:37	02FEB2009 09:55:52	0	1/1	27
5	MIP_NL__1PPDPA20090202_095559_000059842076_00094_36220_8954.N1	02FEB2009 09:55:59	02FEB2009 11:35:42	0	1/1	27
6	MIP_NL__1PPDPA20090202_113548_000060762076_00095_36221_8956.N1	02FEB2009 11:35:48	02FEB2009 13:17:04	0	1/1	27
7	MIP_NL__1PPDPA20090202_131710_000059552076_00096_36222_8959.N1	02FEB2009 13:17:10	02FEB2009 14:56:24	0	1/1	27
8	MIP_NL__1PPDPA20090202_145700_000060612076_00097_36223_8964.N1	02FEB2009 14:57:00	02FEB2009 16:38:00	0	1/1	27
9	MIP_NL__1PPDPA20090202_163806_000060452076_00098_36224_8991.N1	02FEB2009 16:38:06	02FEB2009 18:18:50	0	1/1	27
10	MIP_NL__1PPDPA20090202_181857_000060152076_00099_36225_8993.N1	02FEB2009 18:18:57	02FEB2009 19:59:12	0	1/1	27
11	MIP_NL__1PPDPA20090202_195918_000060152076_00100_36226_8995.N1	02FEB2009 19:59:18	02FEB2009 21:39:33	0	1/1	27
12	MIP_NL__1PPDPA20090202_213939_000060452076_00101_36227_8997.N1	02FEB2009 21:39:39	02FEB2009 23:20:23	0	1/1	27
13	MIP_NL__1PPDPA20090202_232029_000060152076_00102_36228_9000.N1	02FEB2009 23:20:29	03FEB2009 01:00:44	0	1/1	27

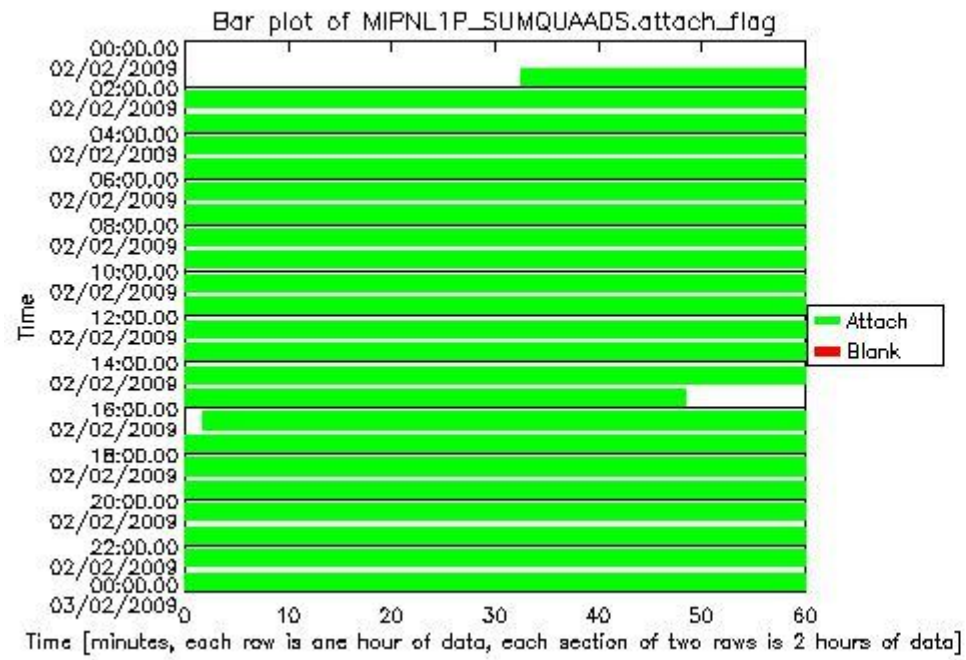
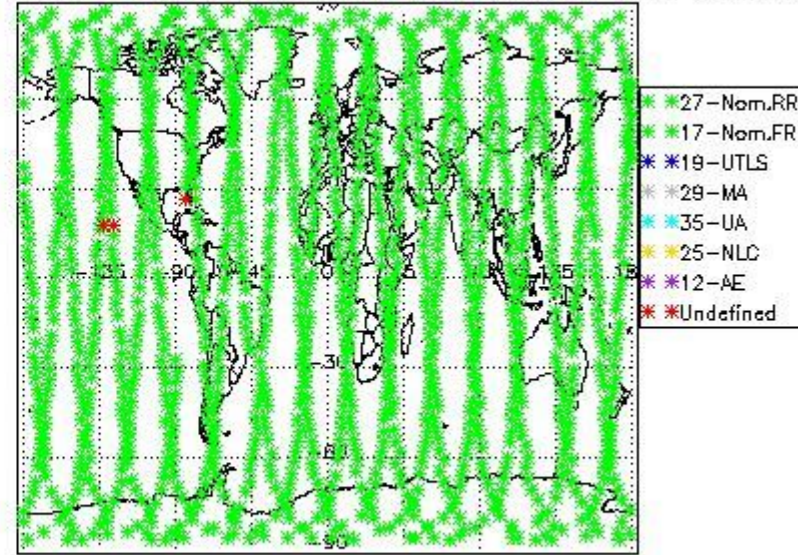
1.2 Product Quality Indicators

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

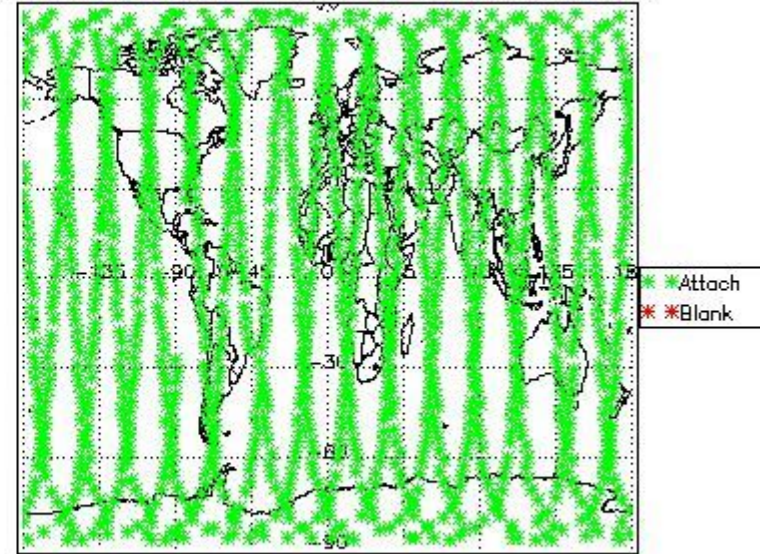
1.2.1 Trends and geolocation of Summary Quality and Scan Information ADS

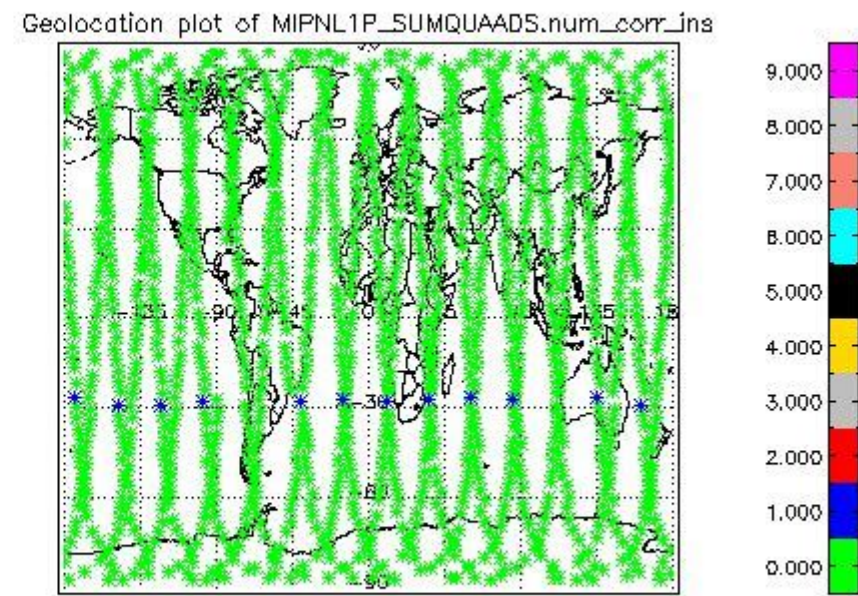
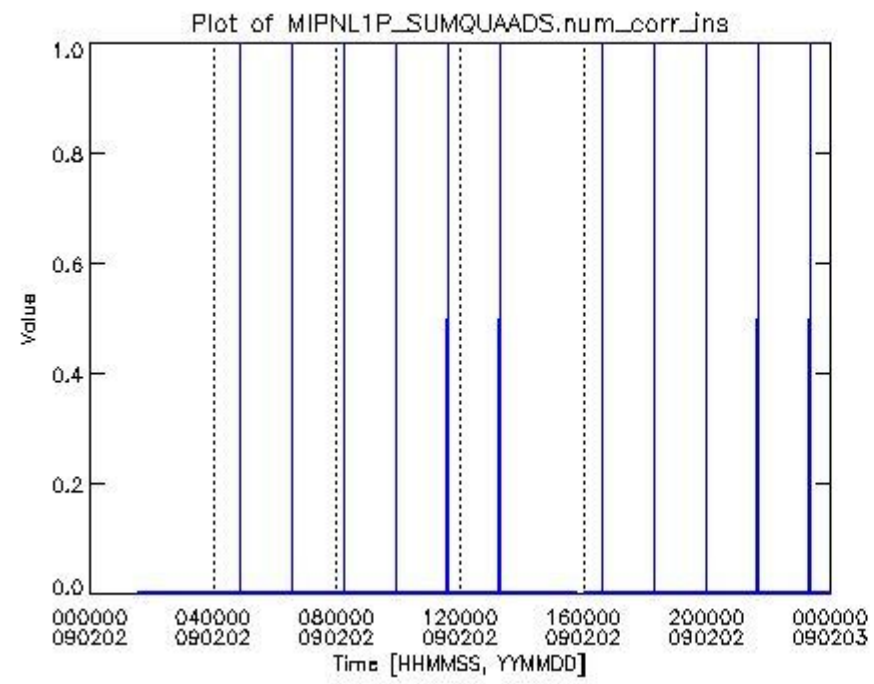
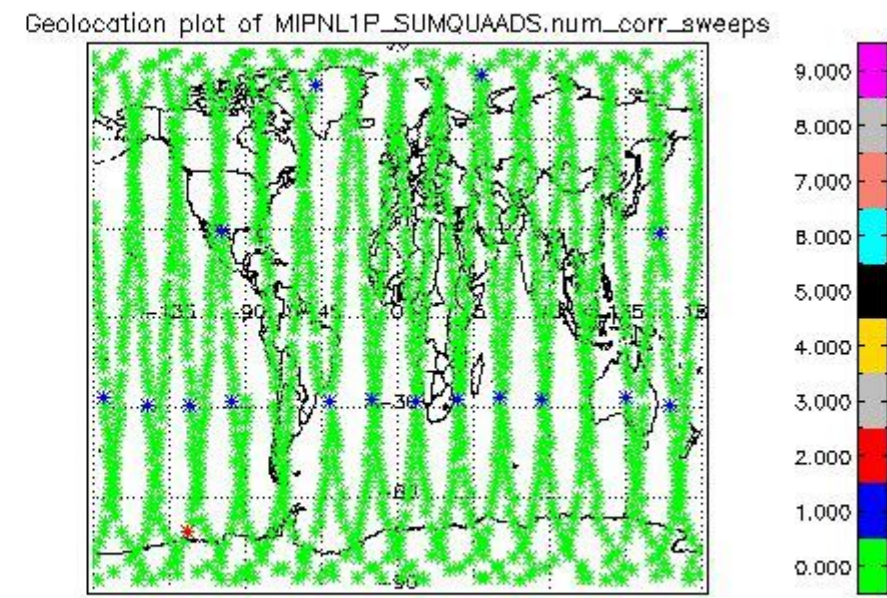
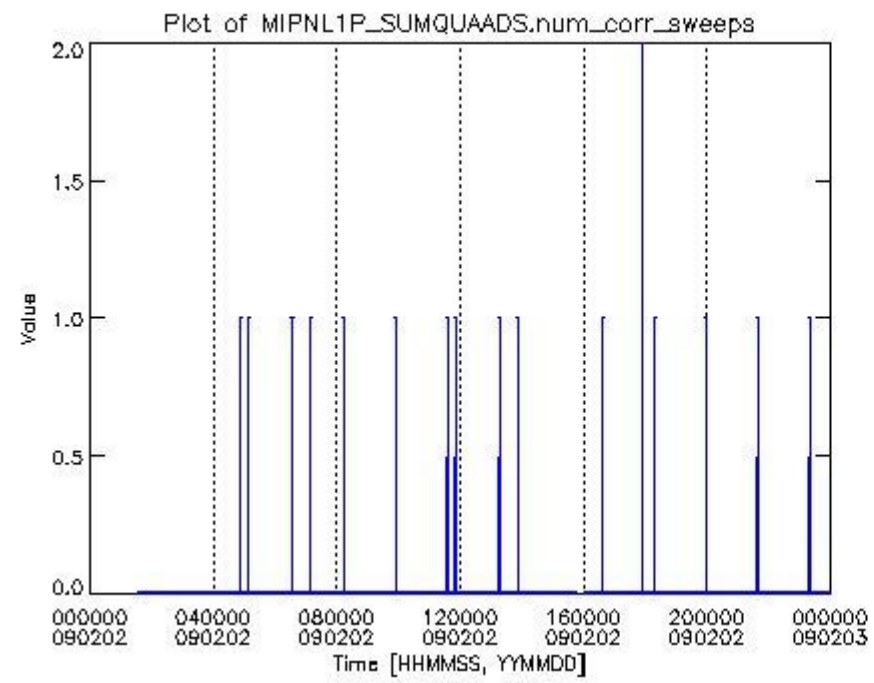


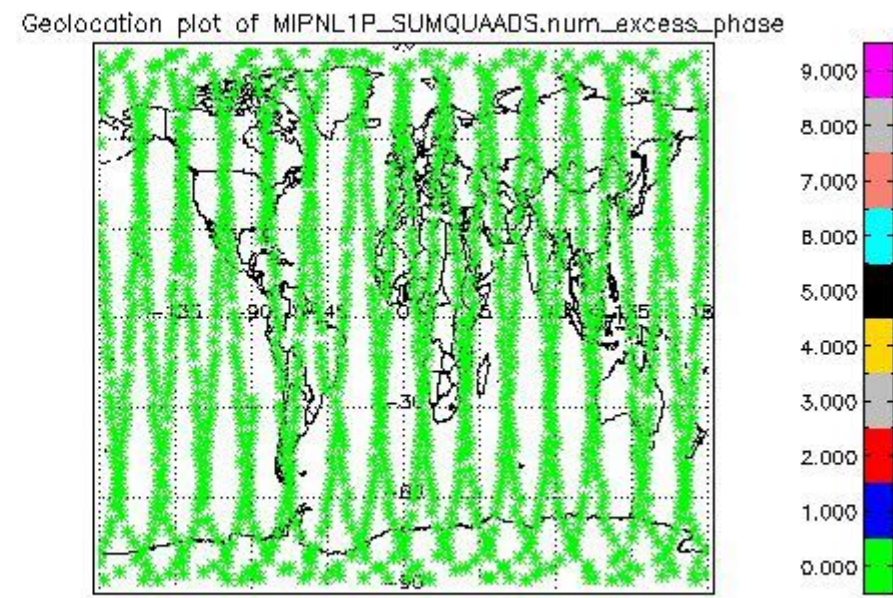
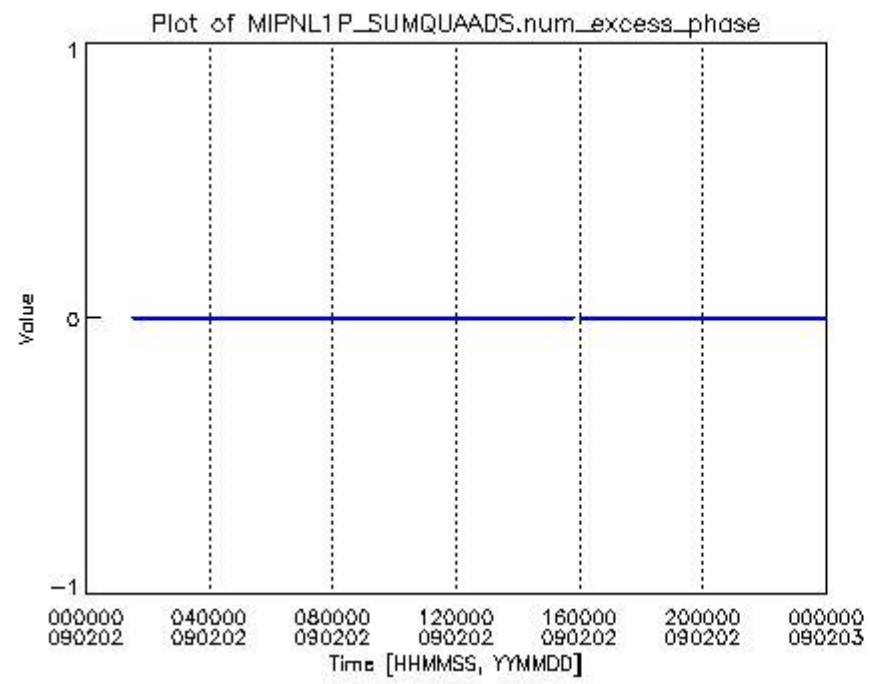
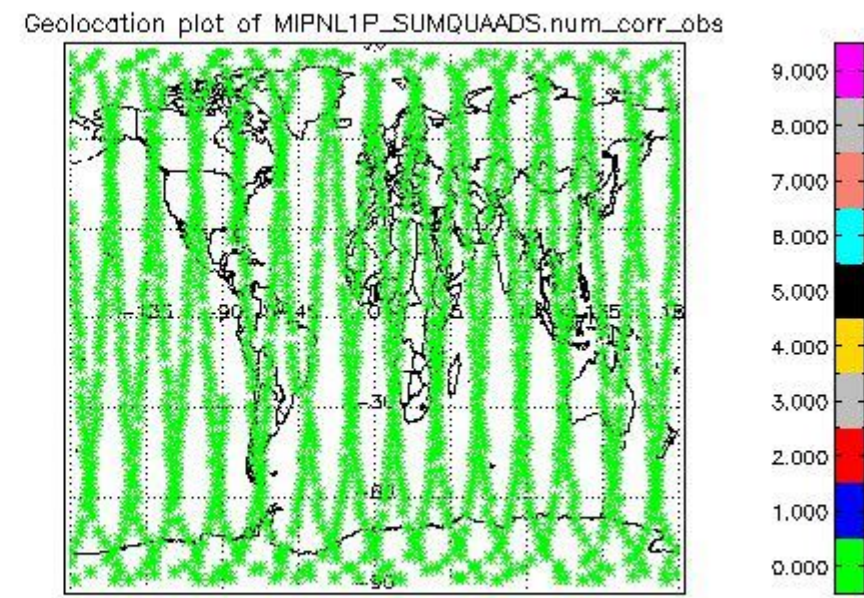
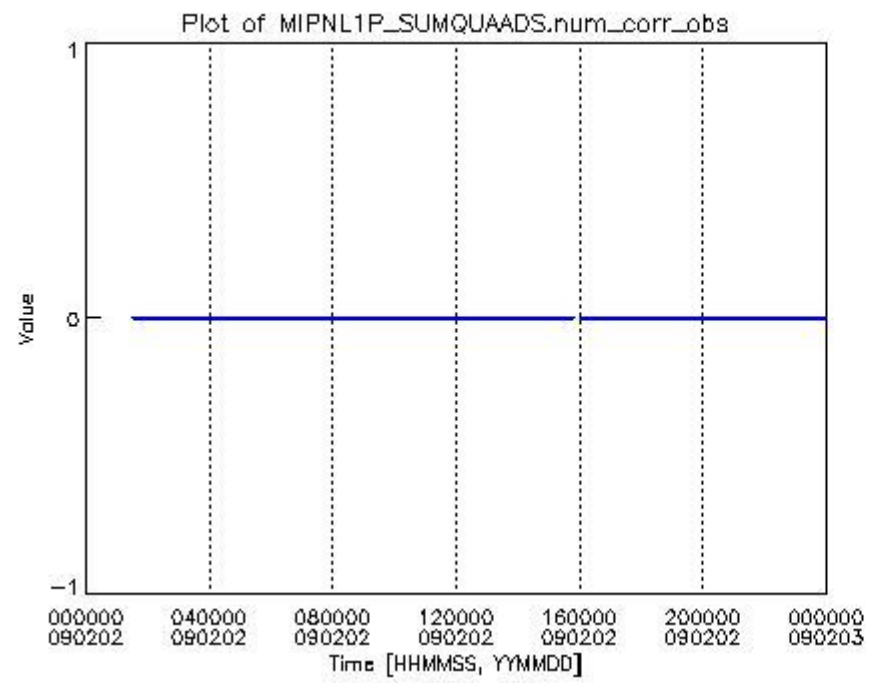
Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)

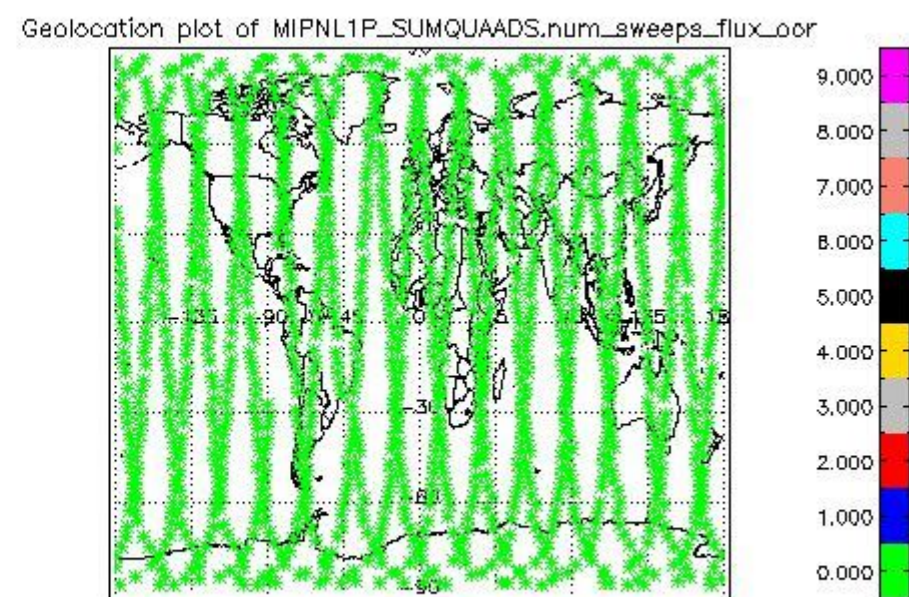
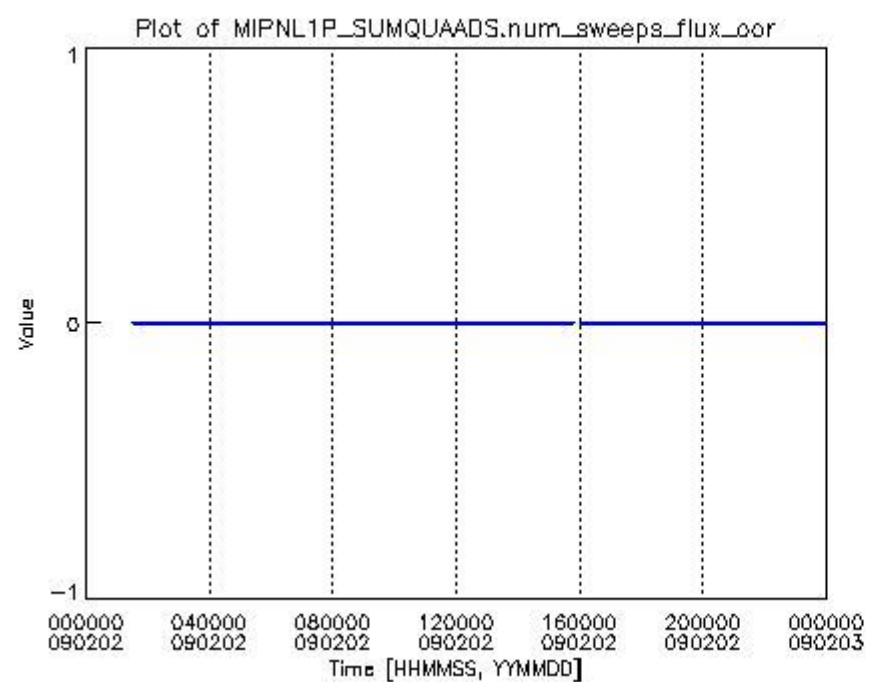
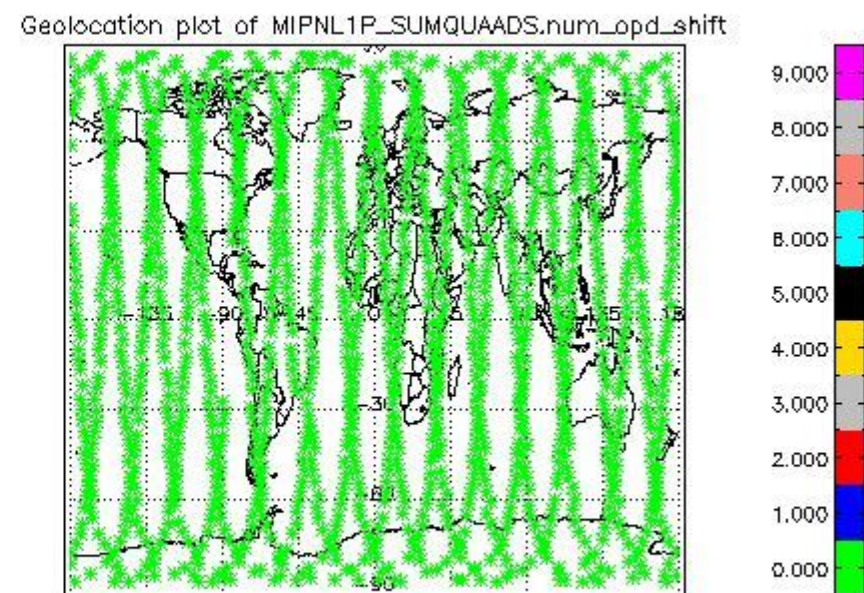
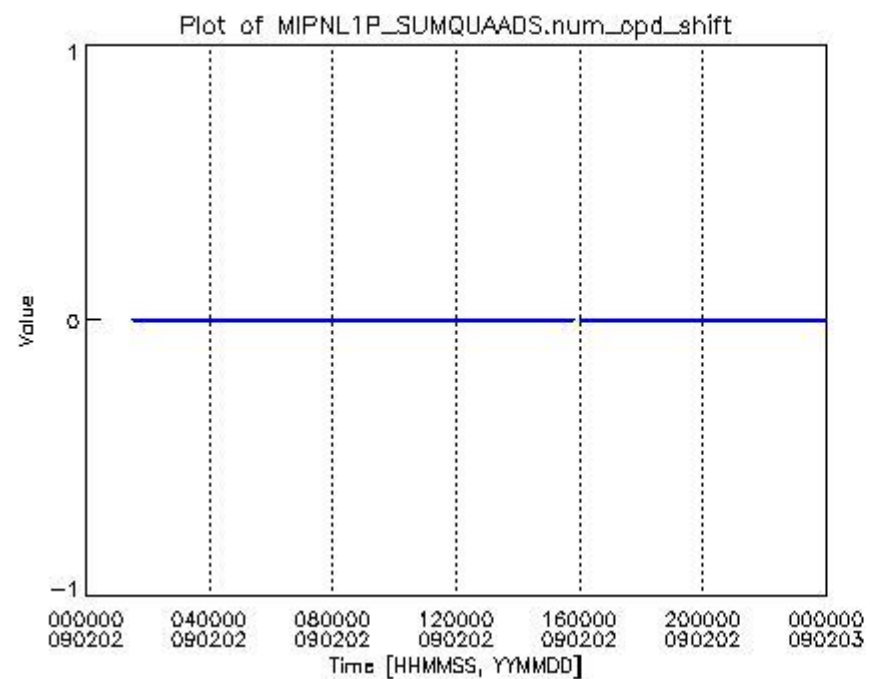


Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag

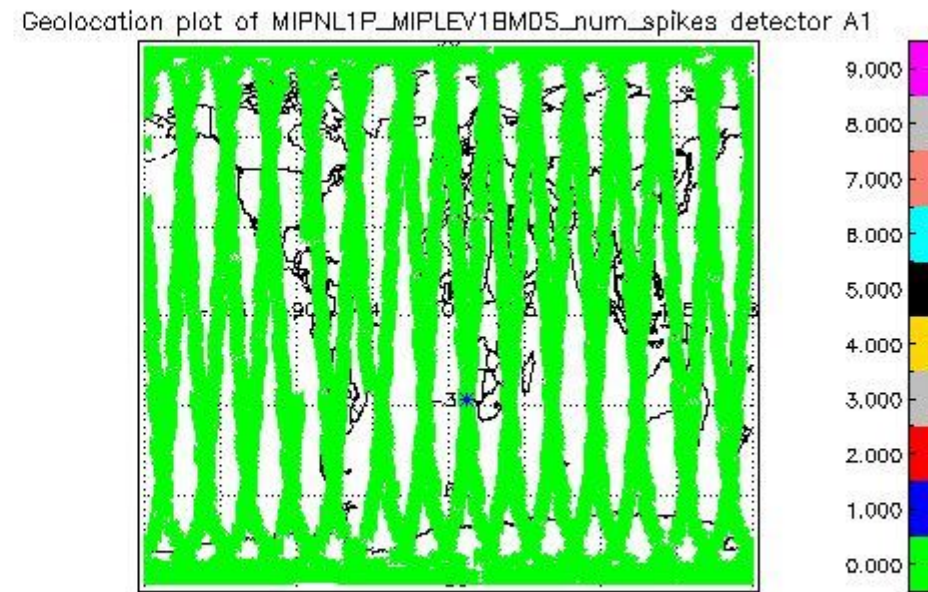
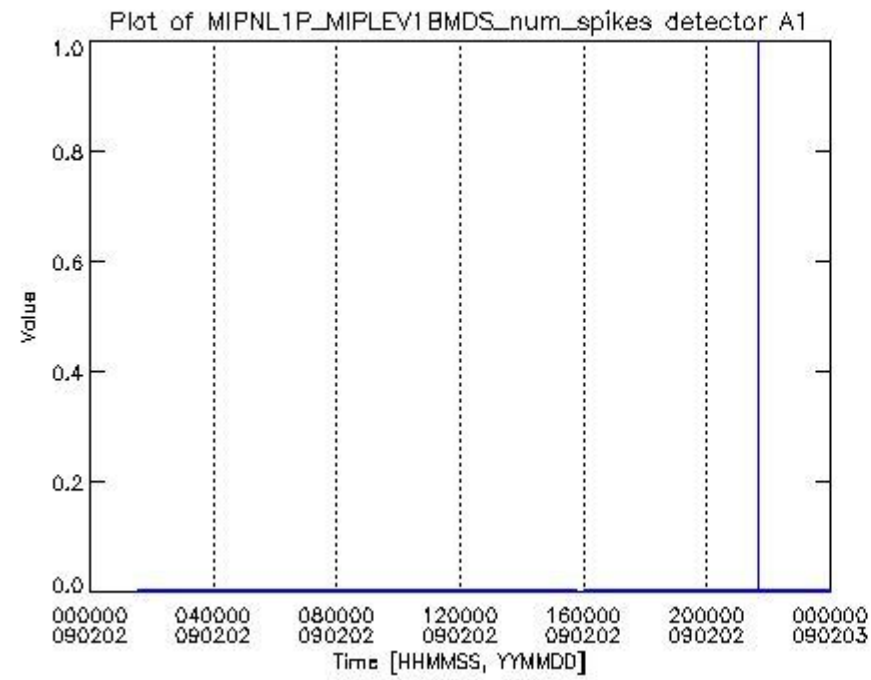
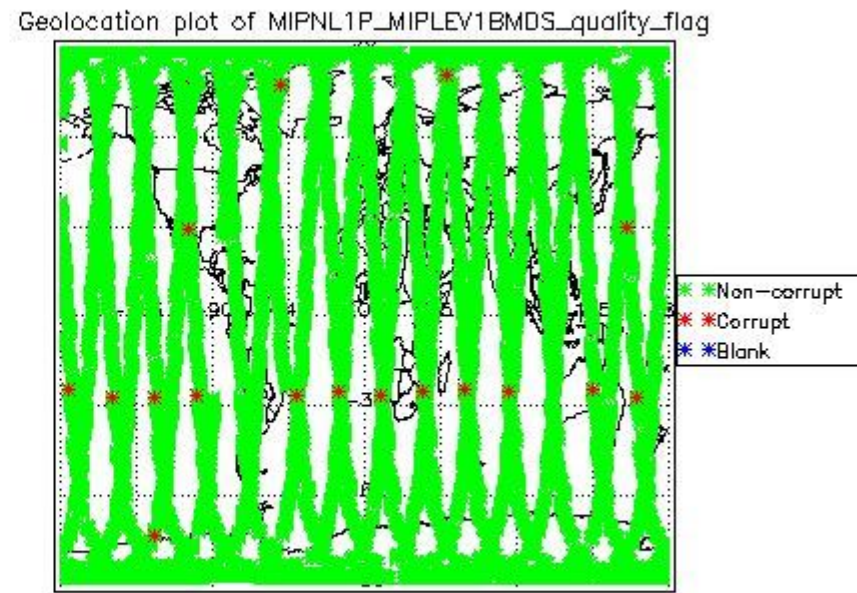
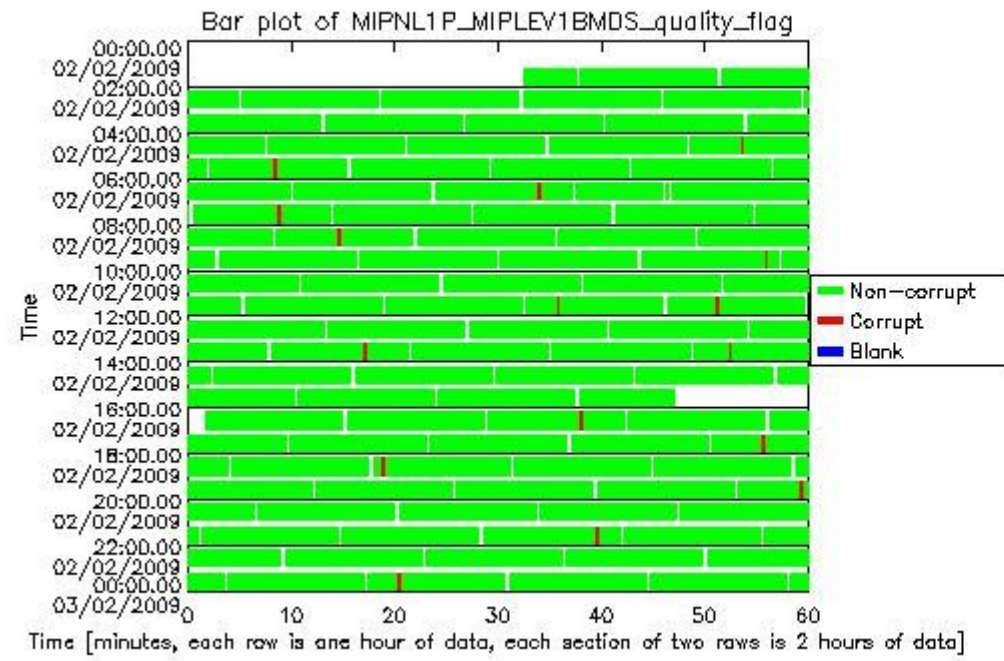


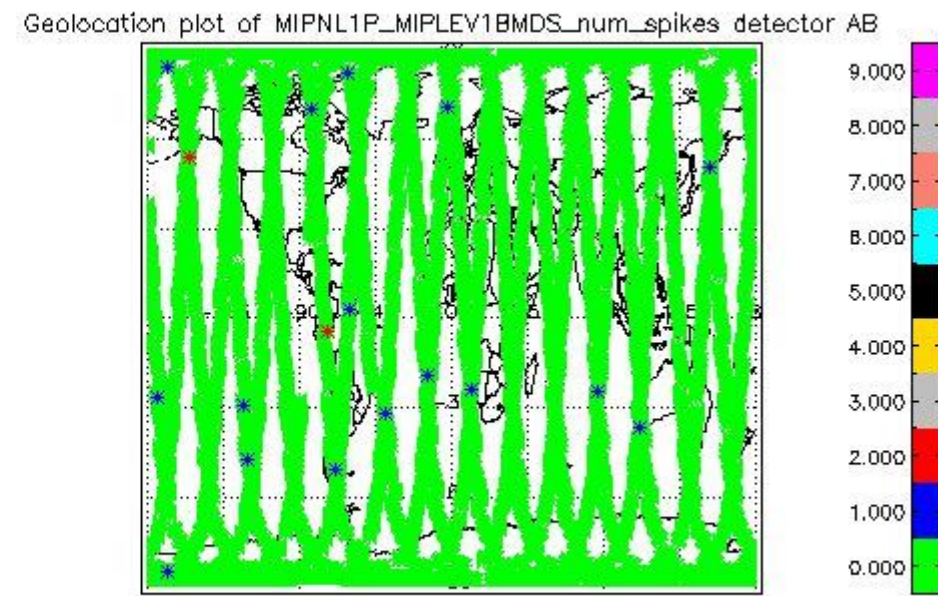
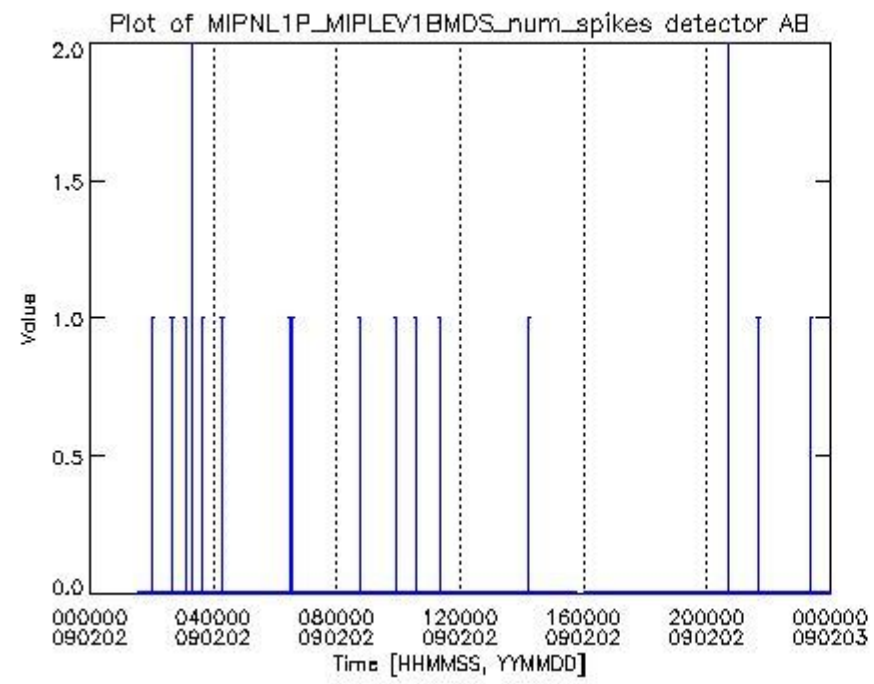
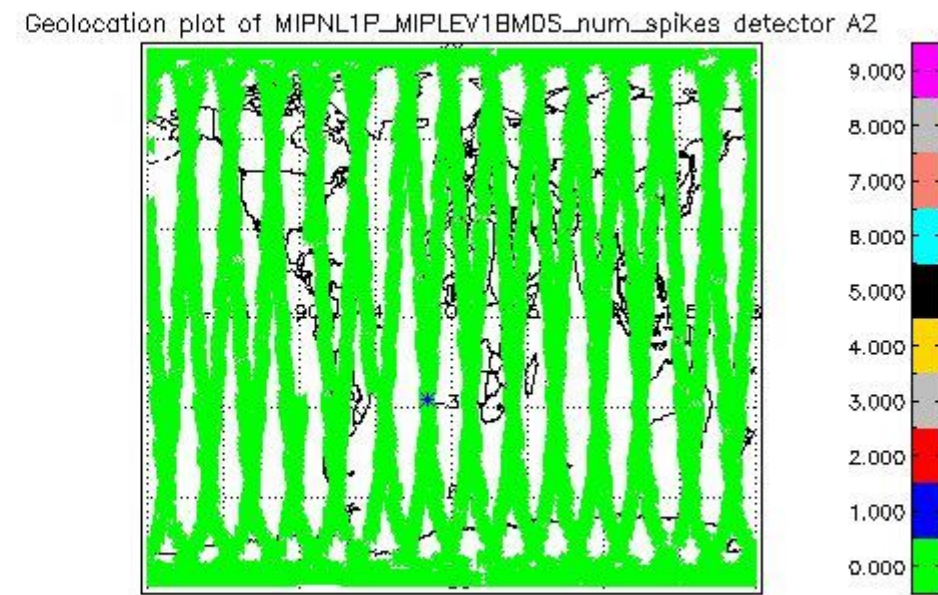
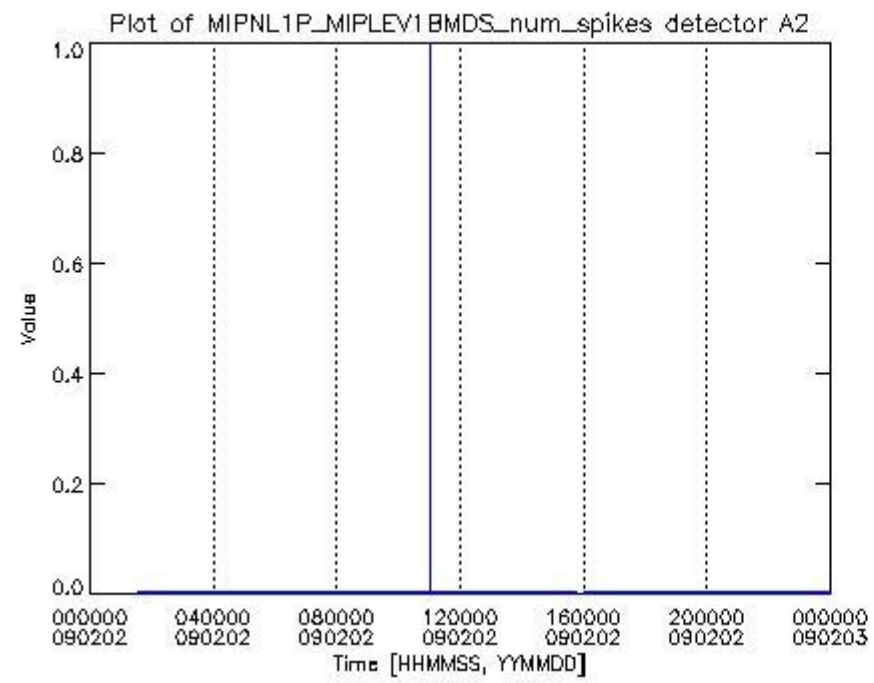


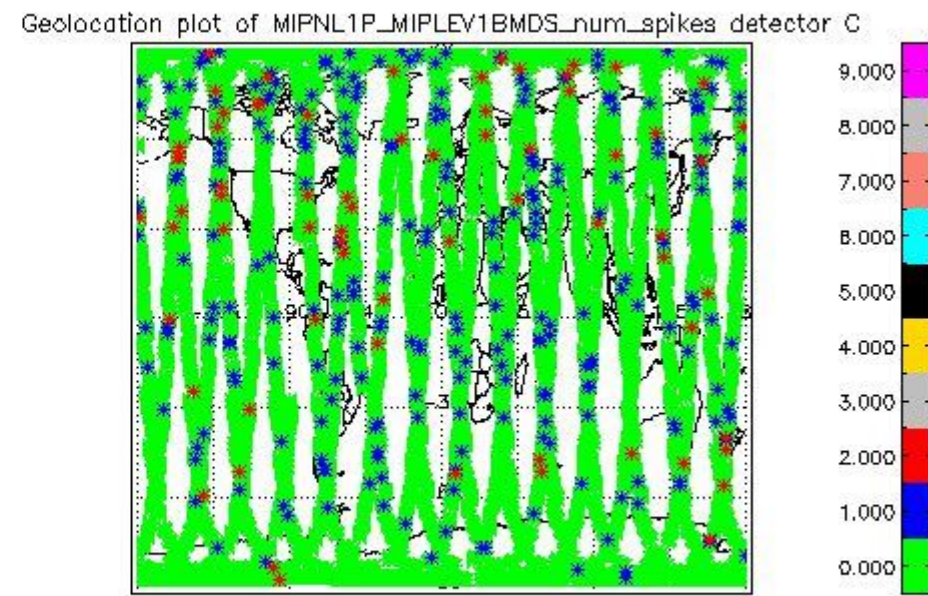
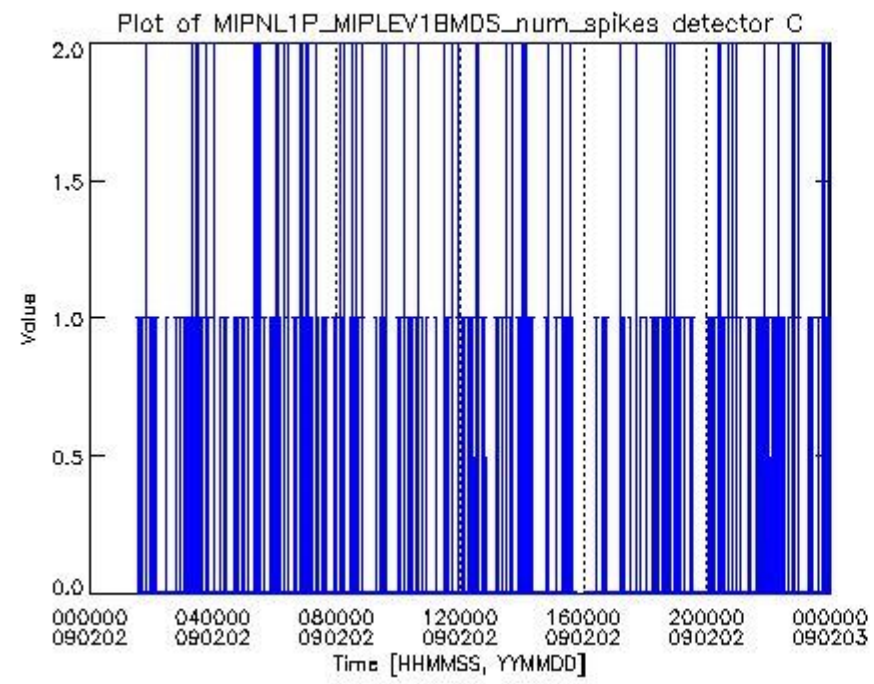
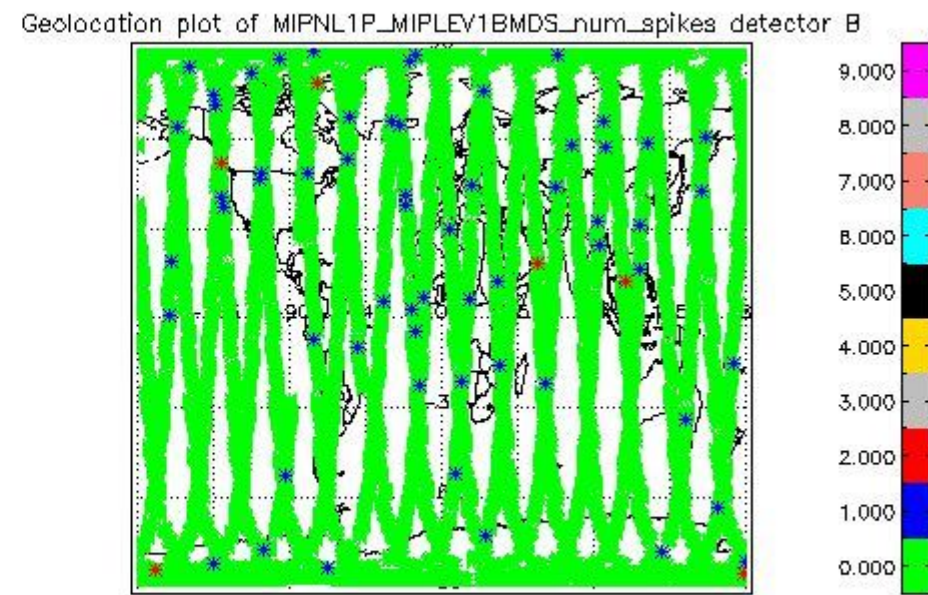
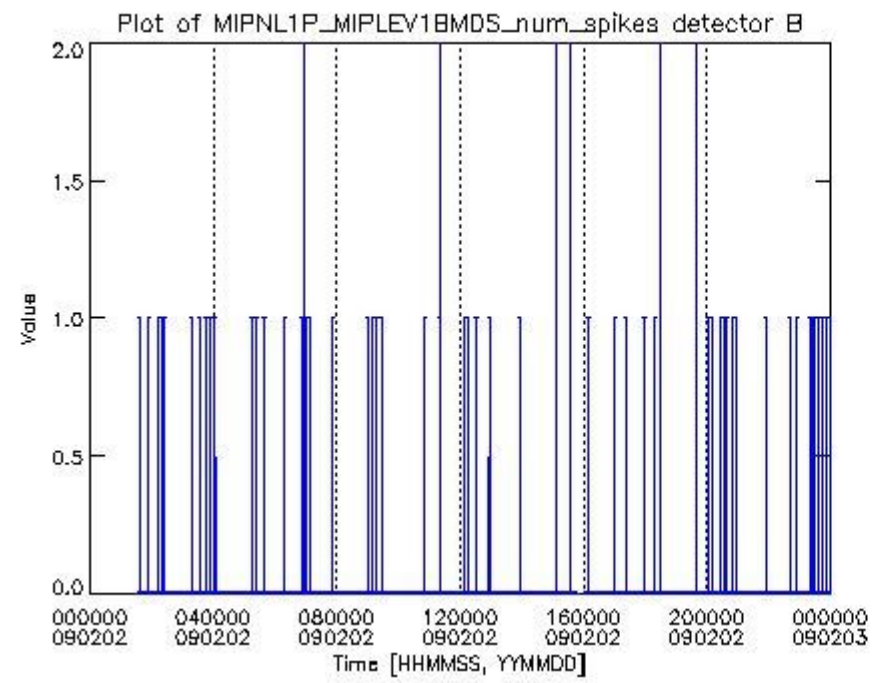


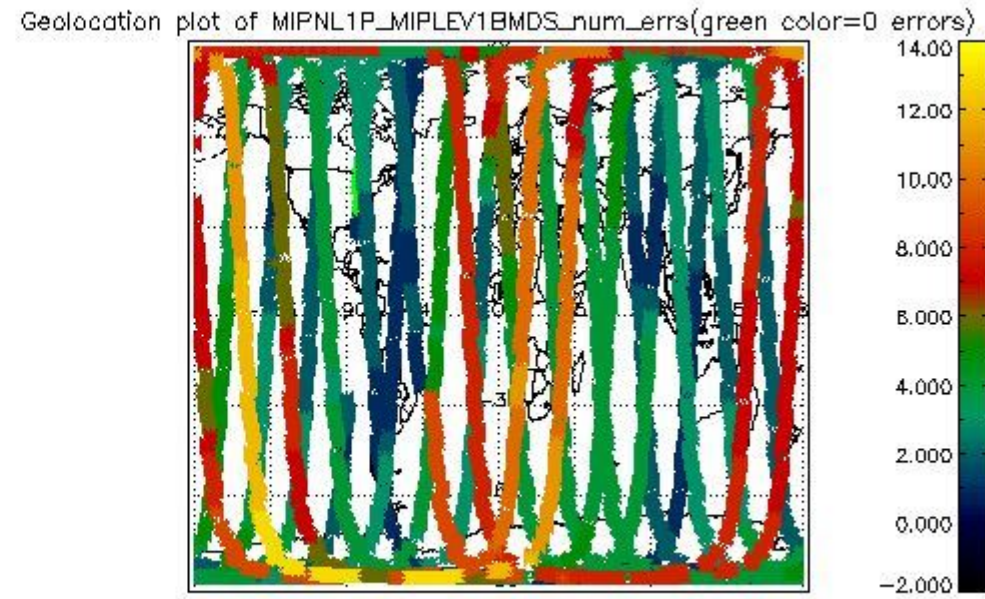
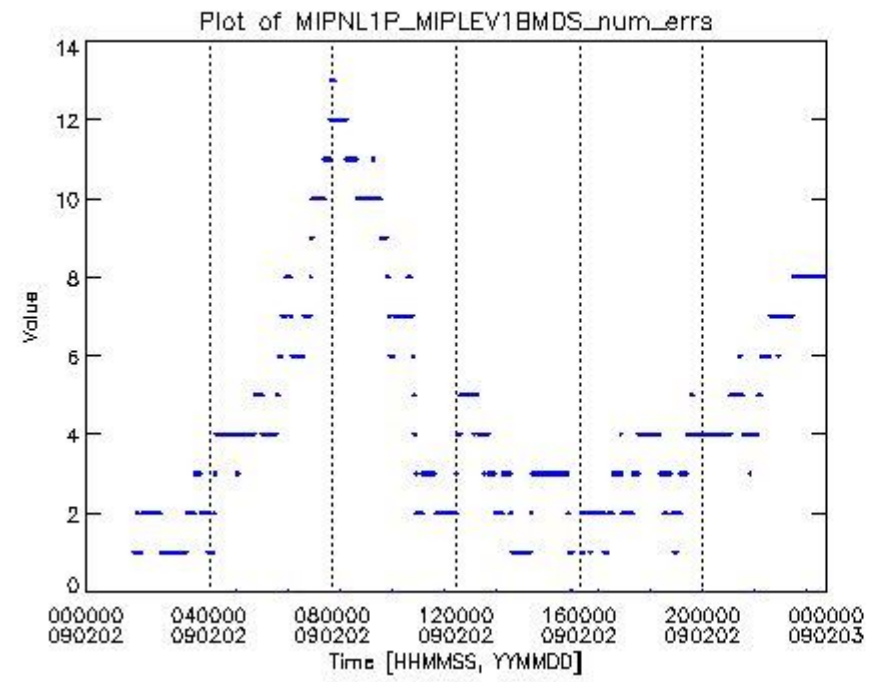
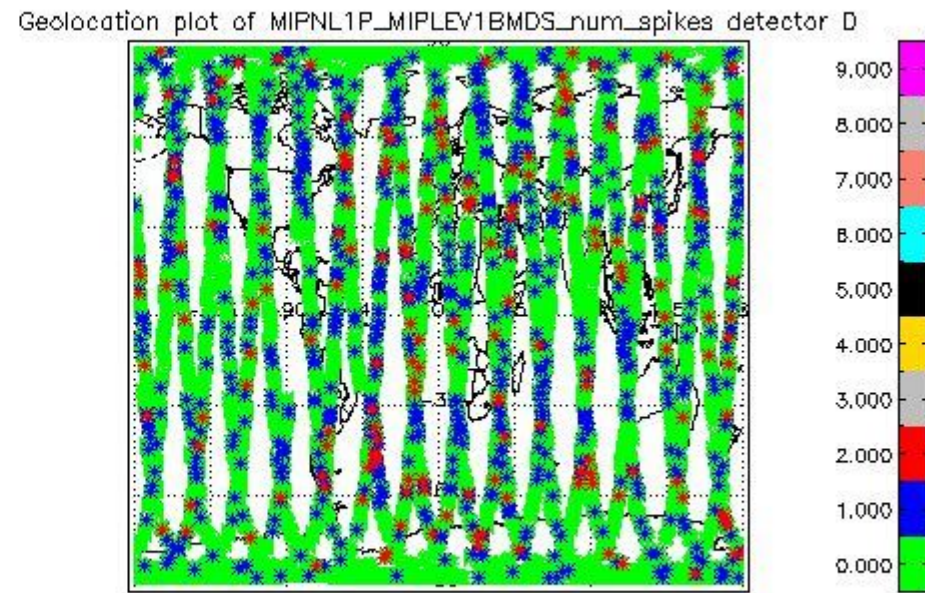
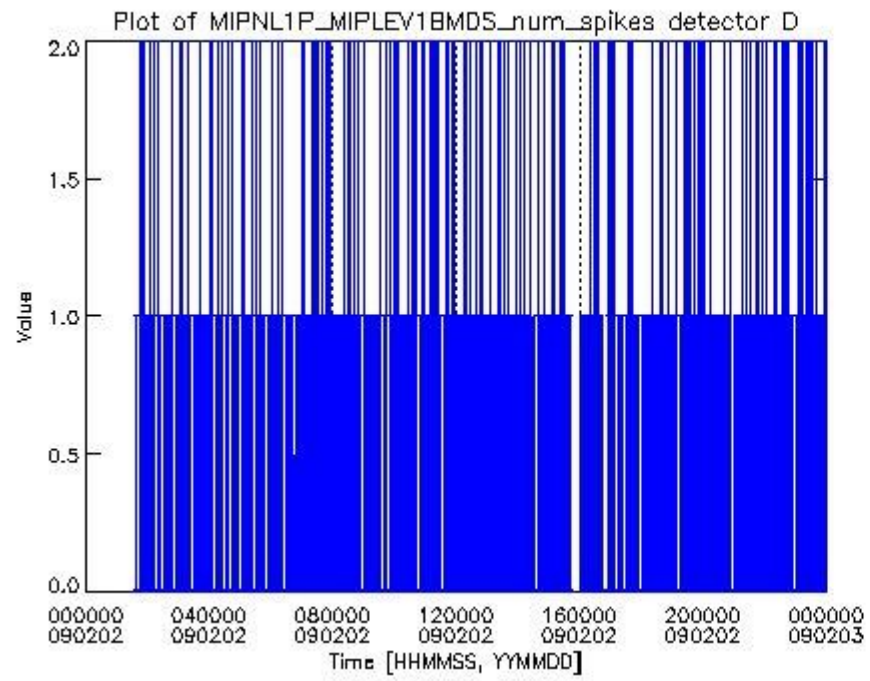


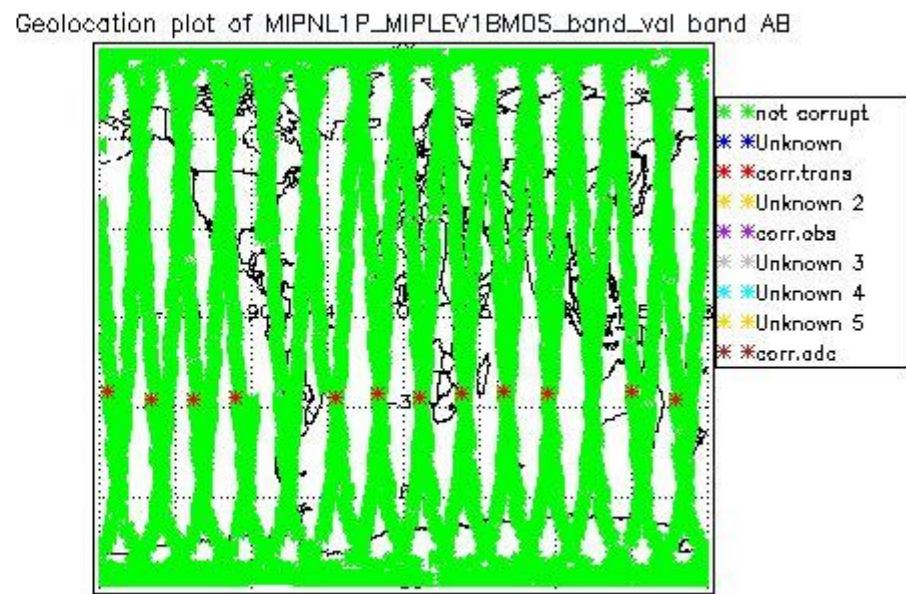
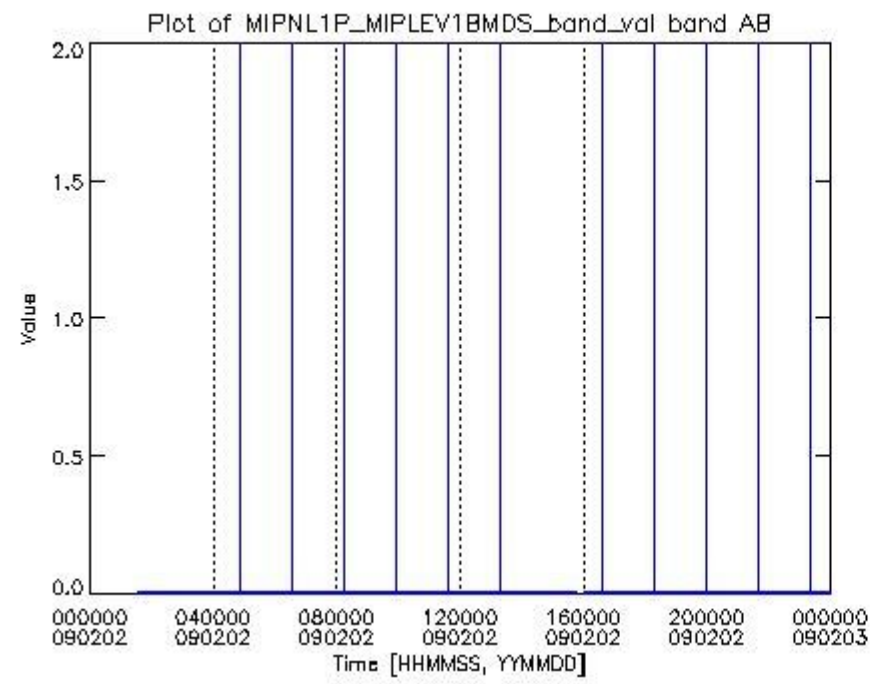
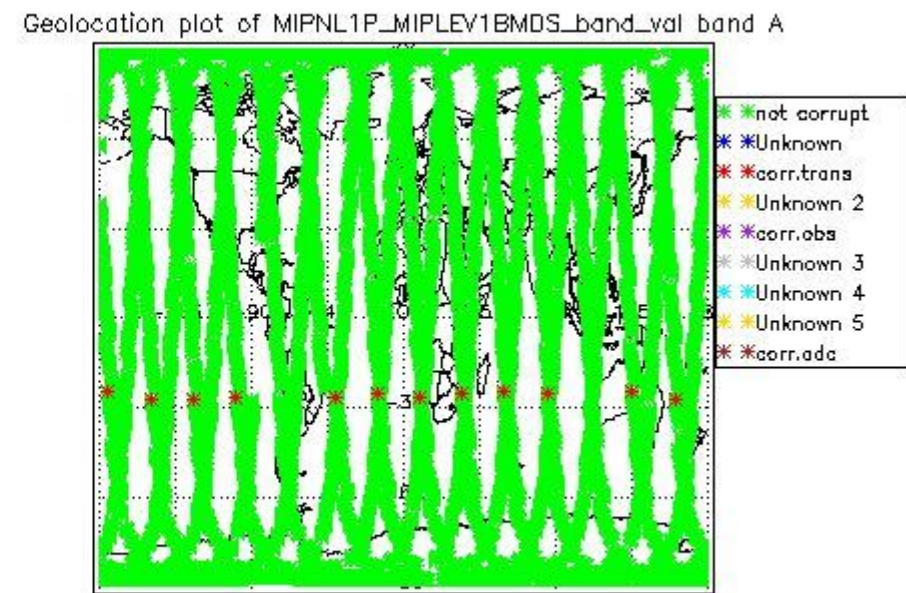
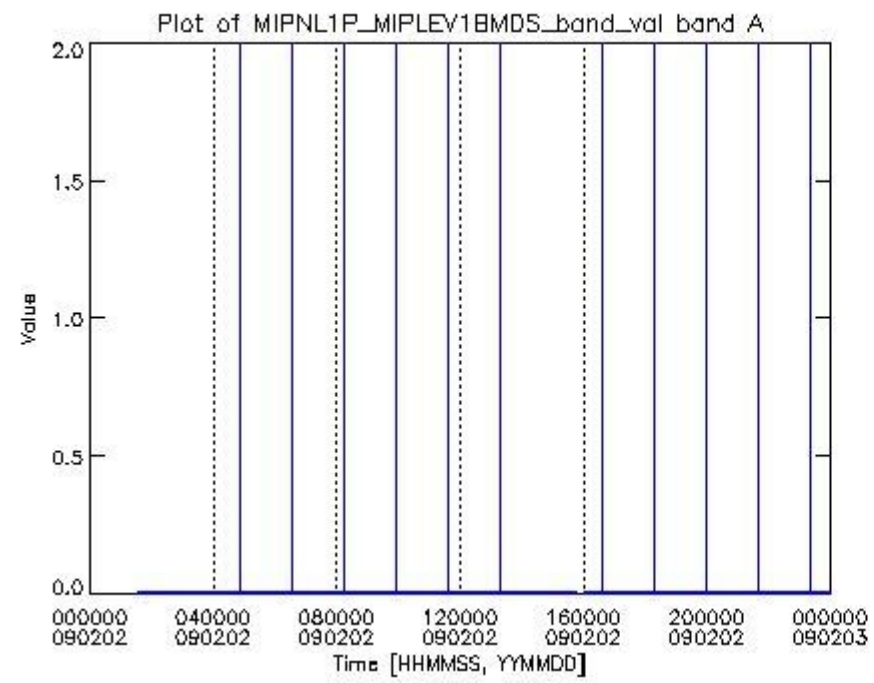
1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

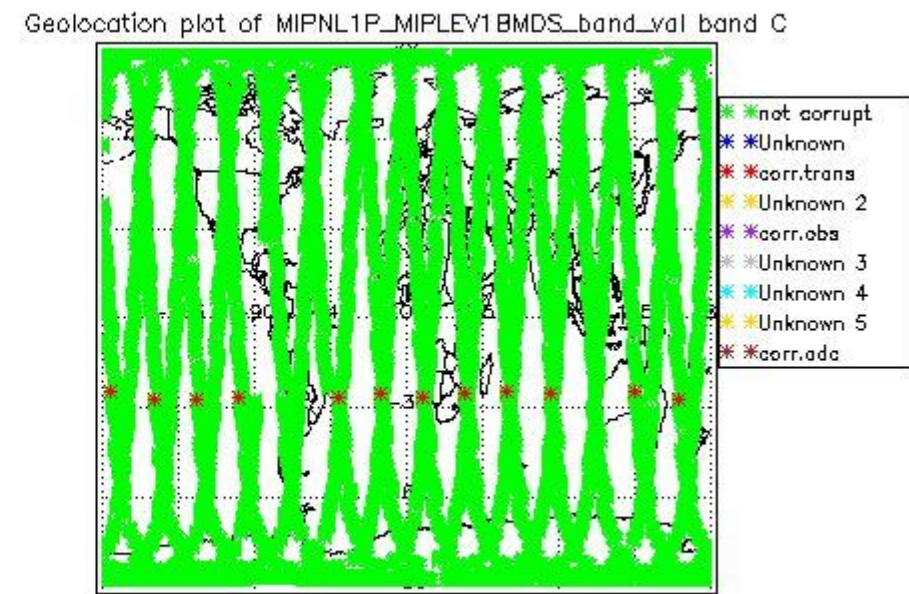
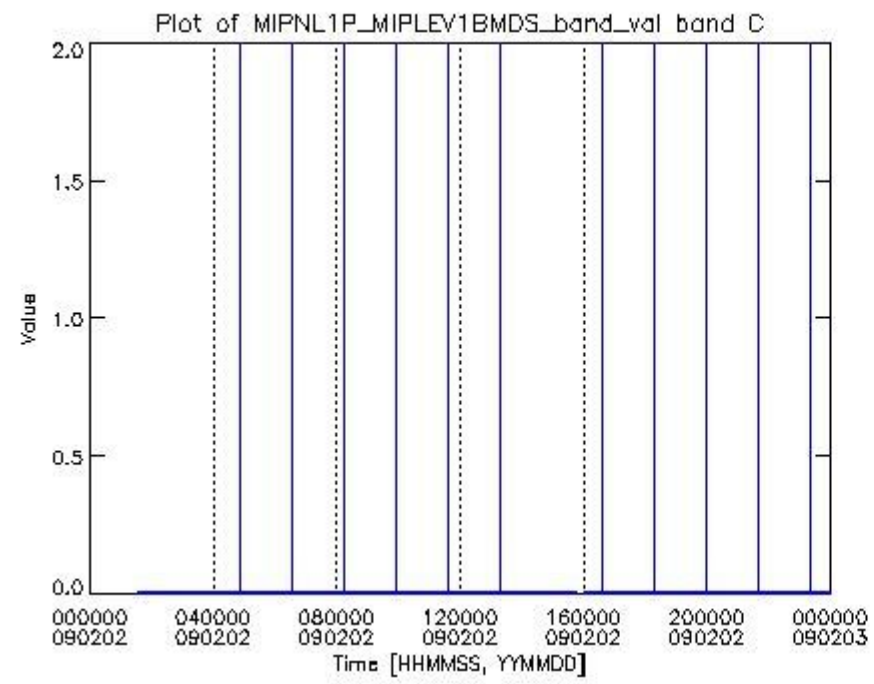
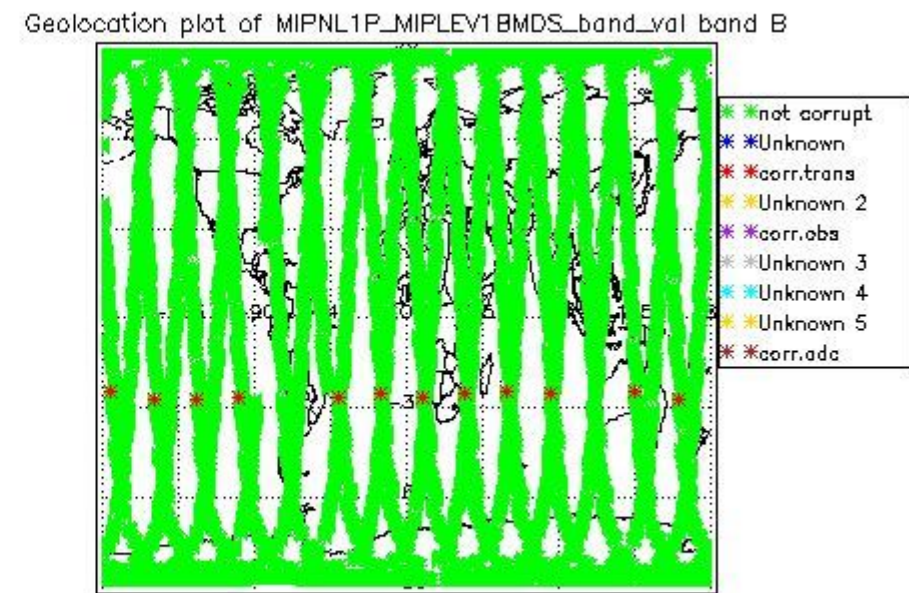
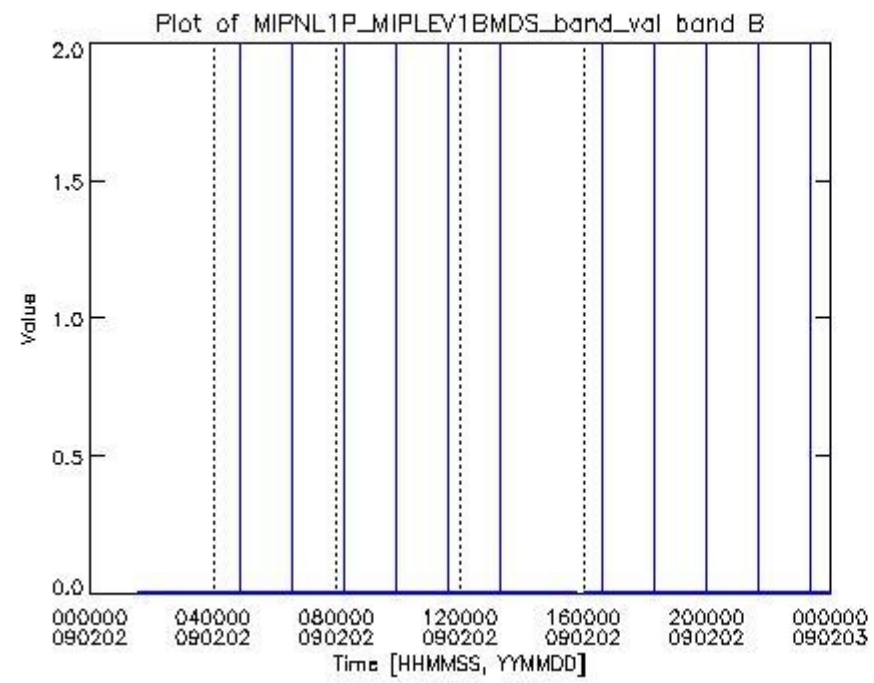


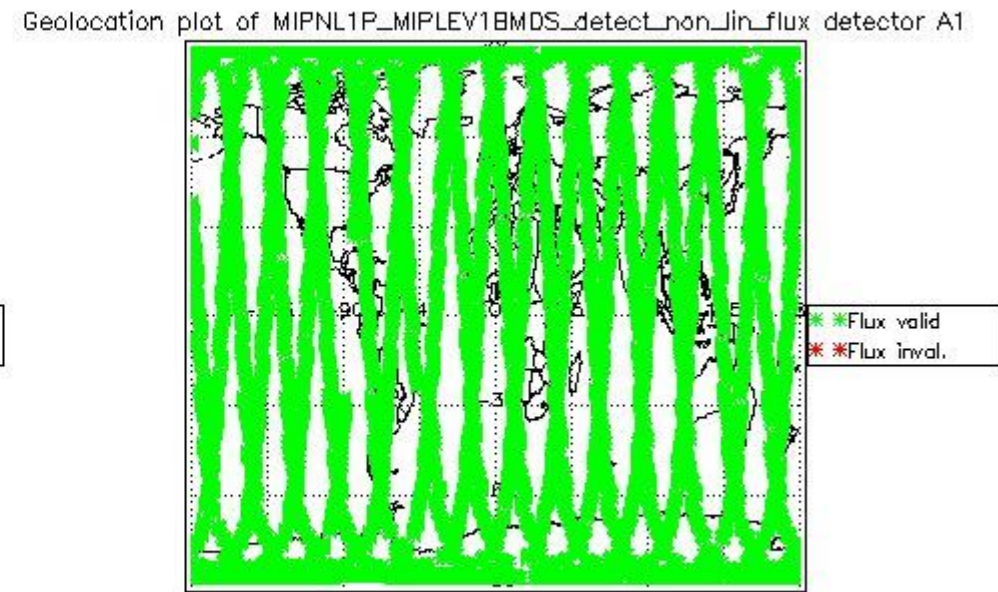
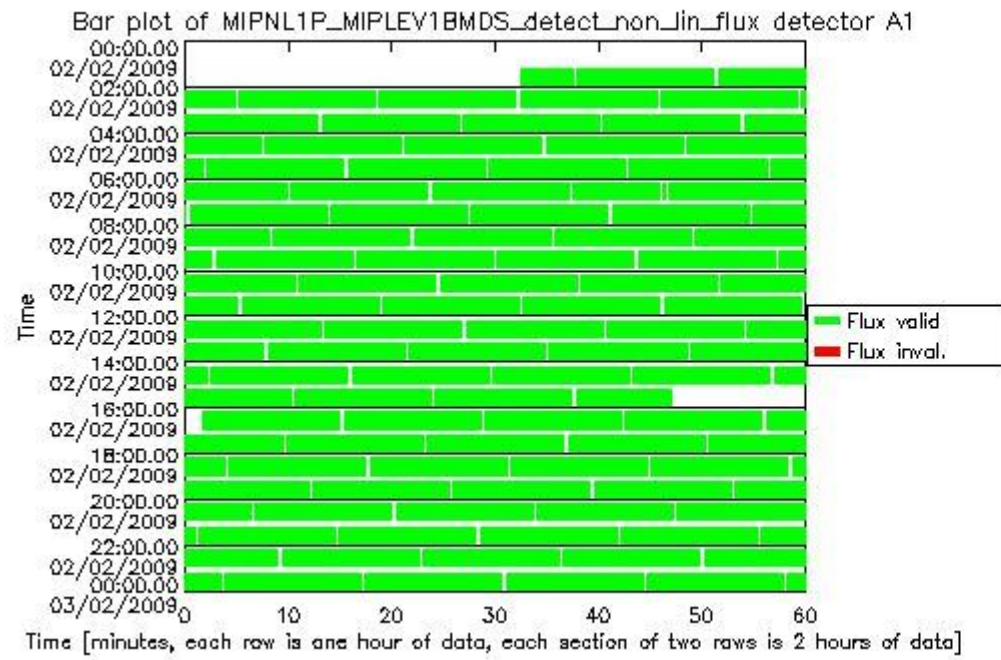
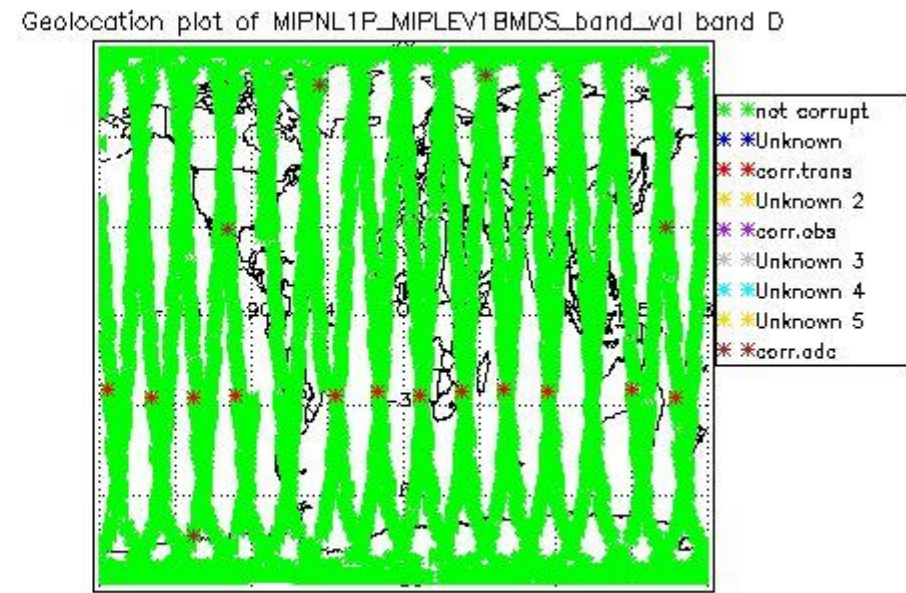
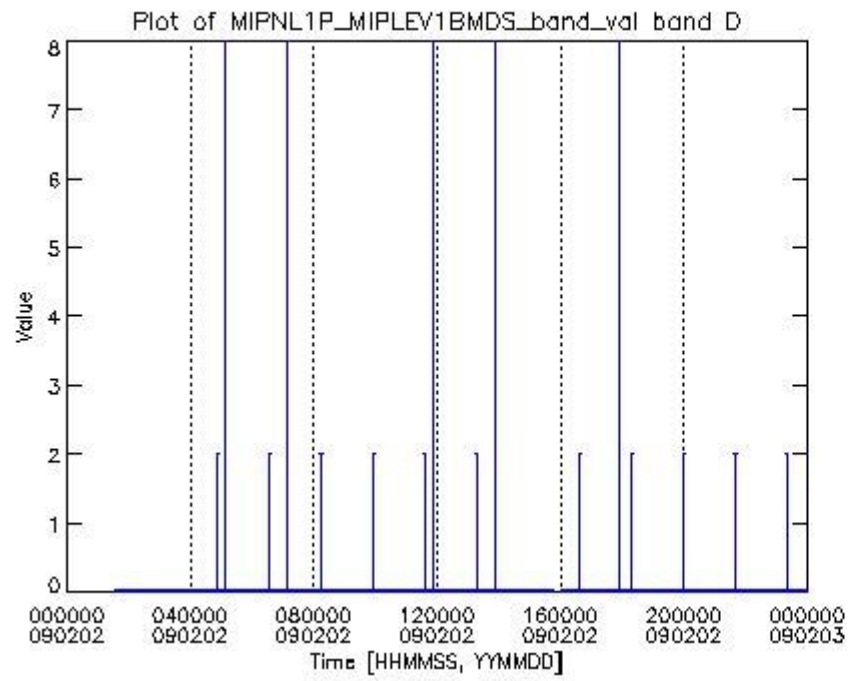


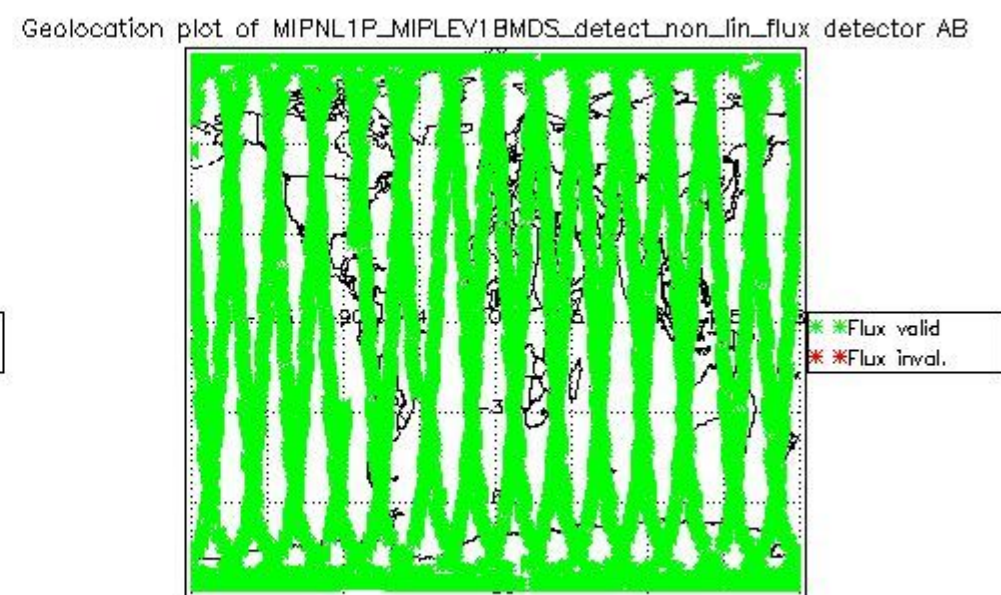
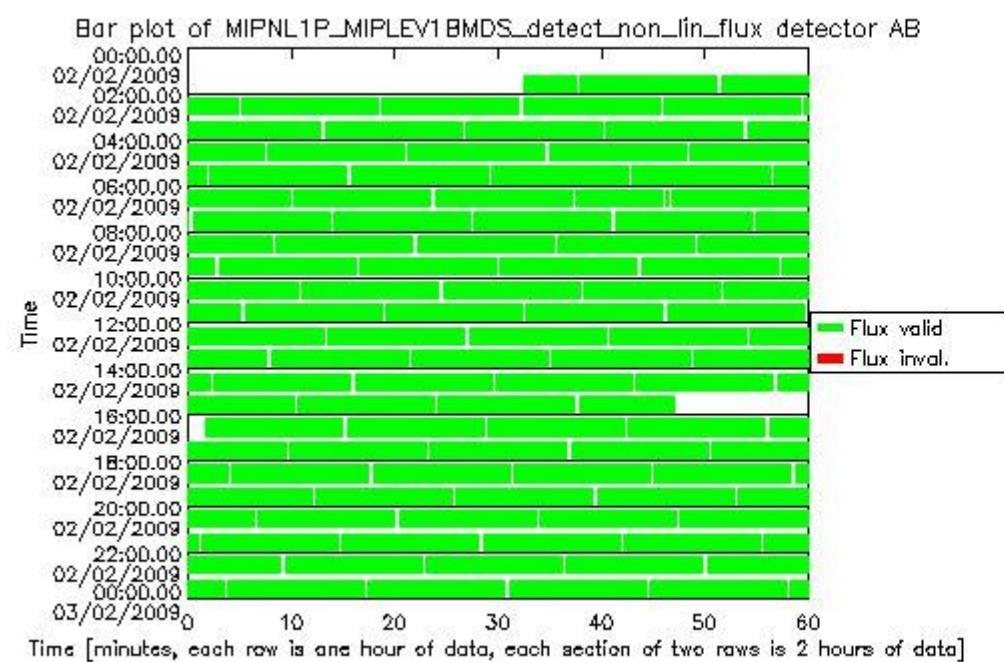
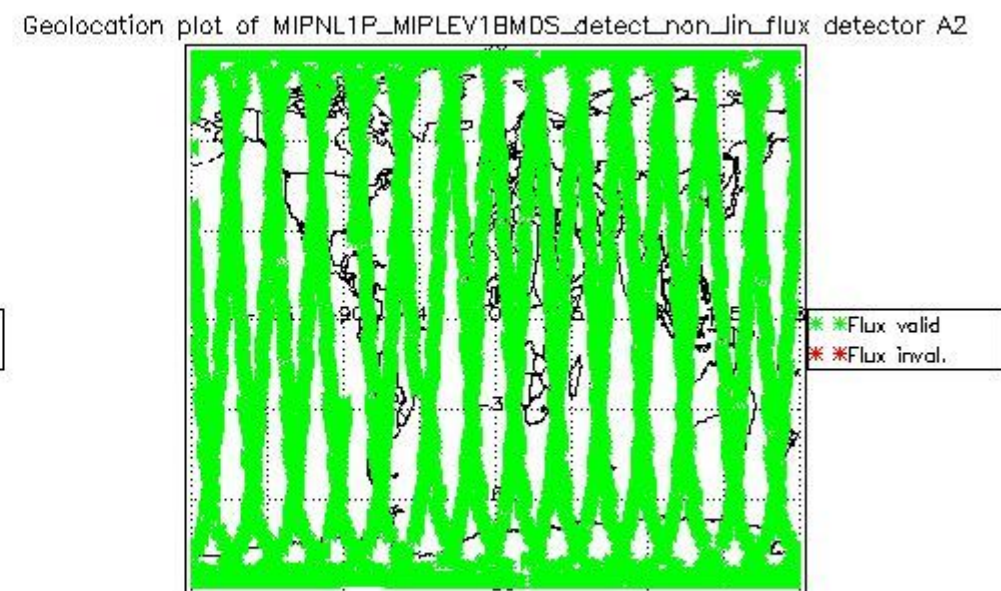
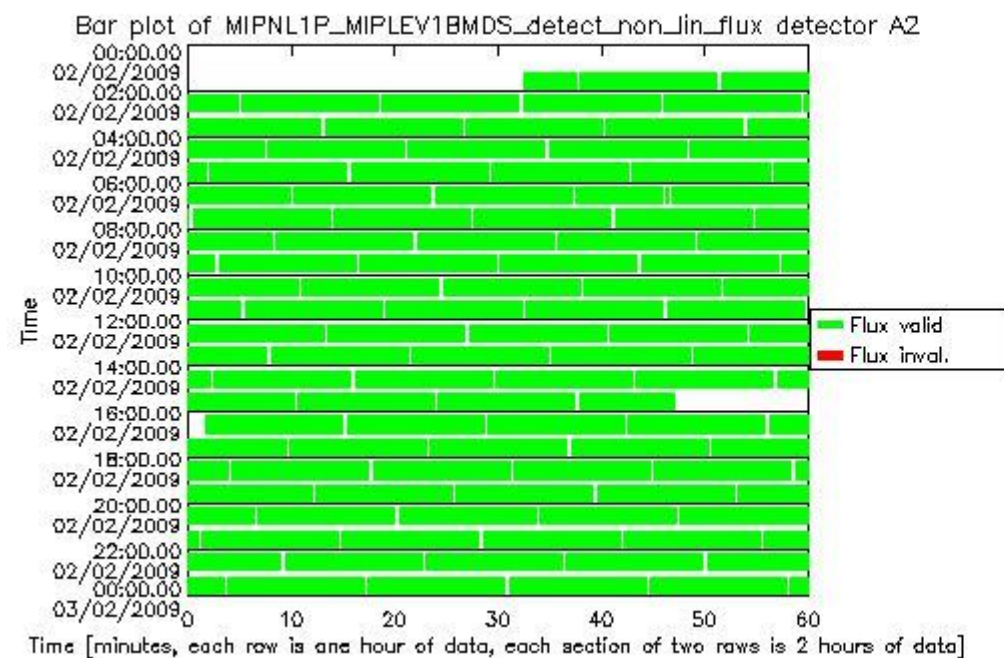


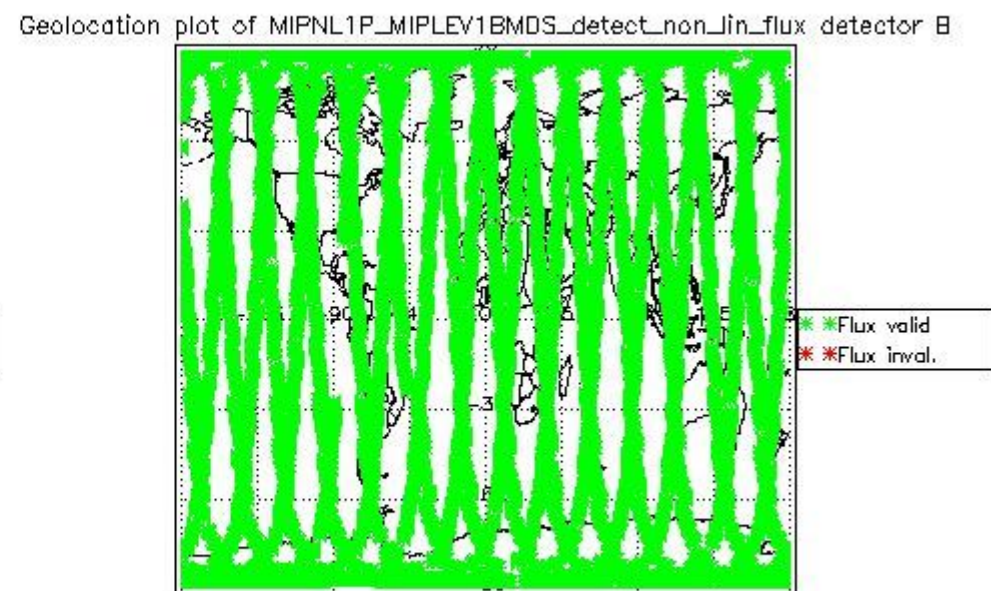
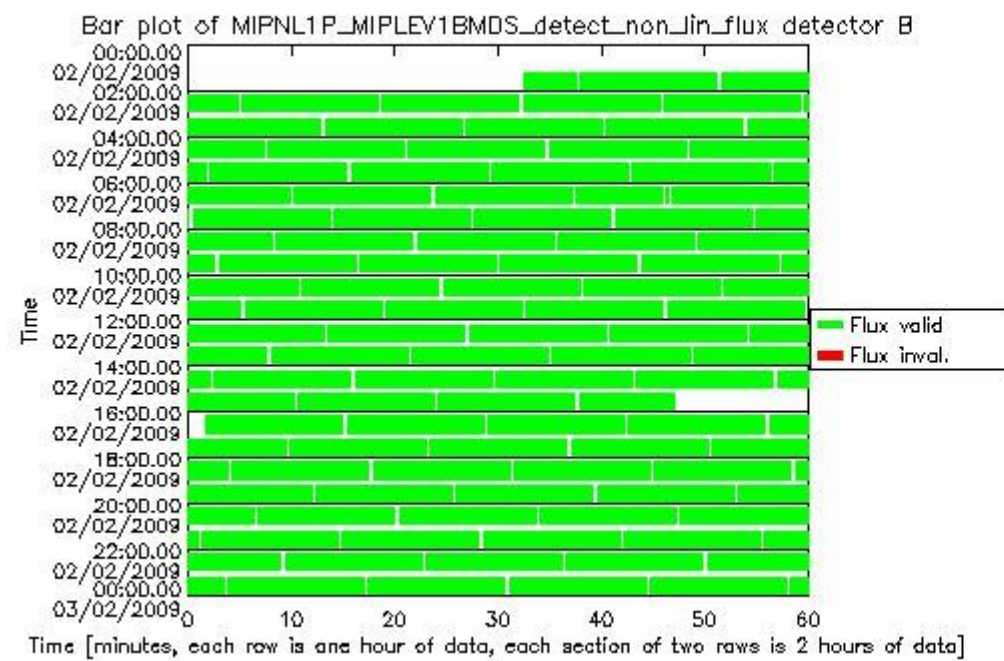












1.2.3 Scan information ADS

The following plots each contain 100 squares. Each square contains one NESR-scan (from MIPNL1P_SCINFADS_nesr_data).

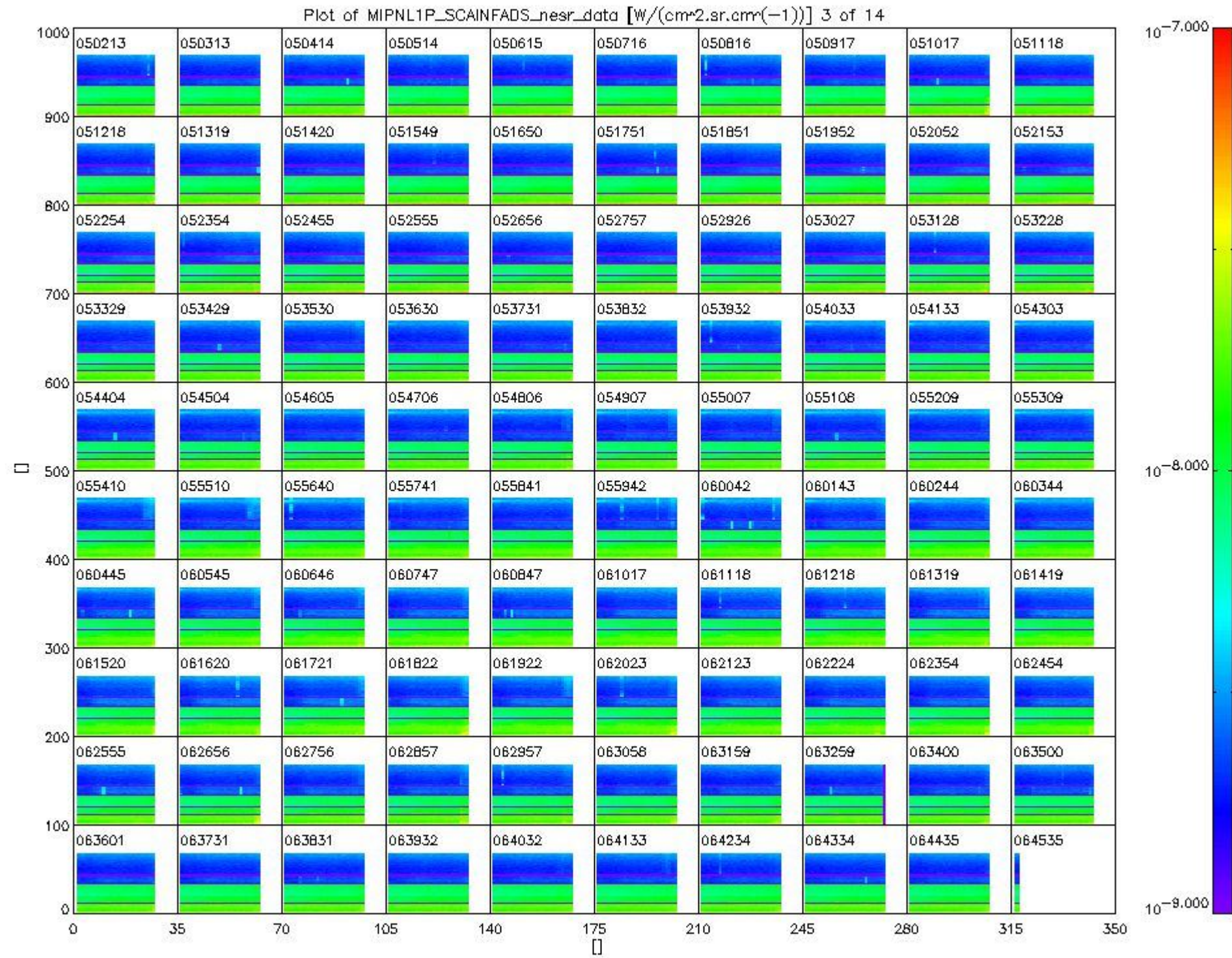
The horizontal axis represents the sweep ID (starts at 1).

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

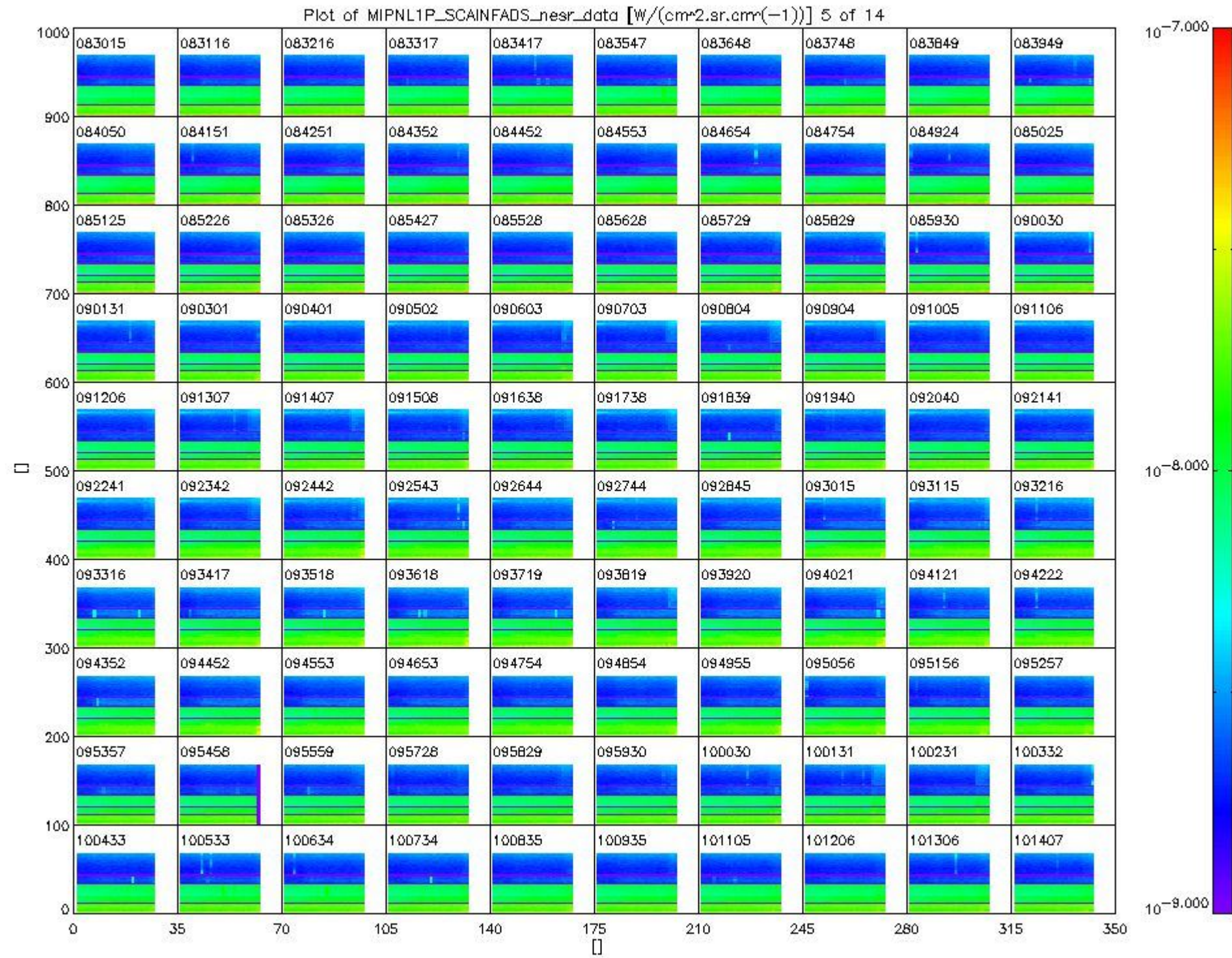
The data values themselves are indicated by colours (as indicated on the right of the plot). Please refer to the plot header for data units.



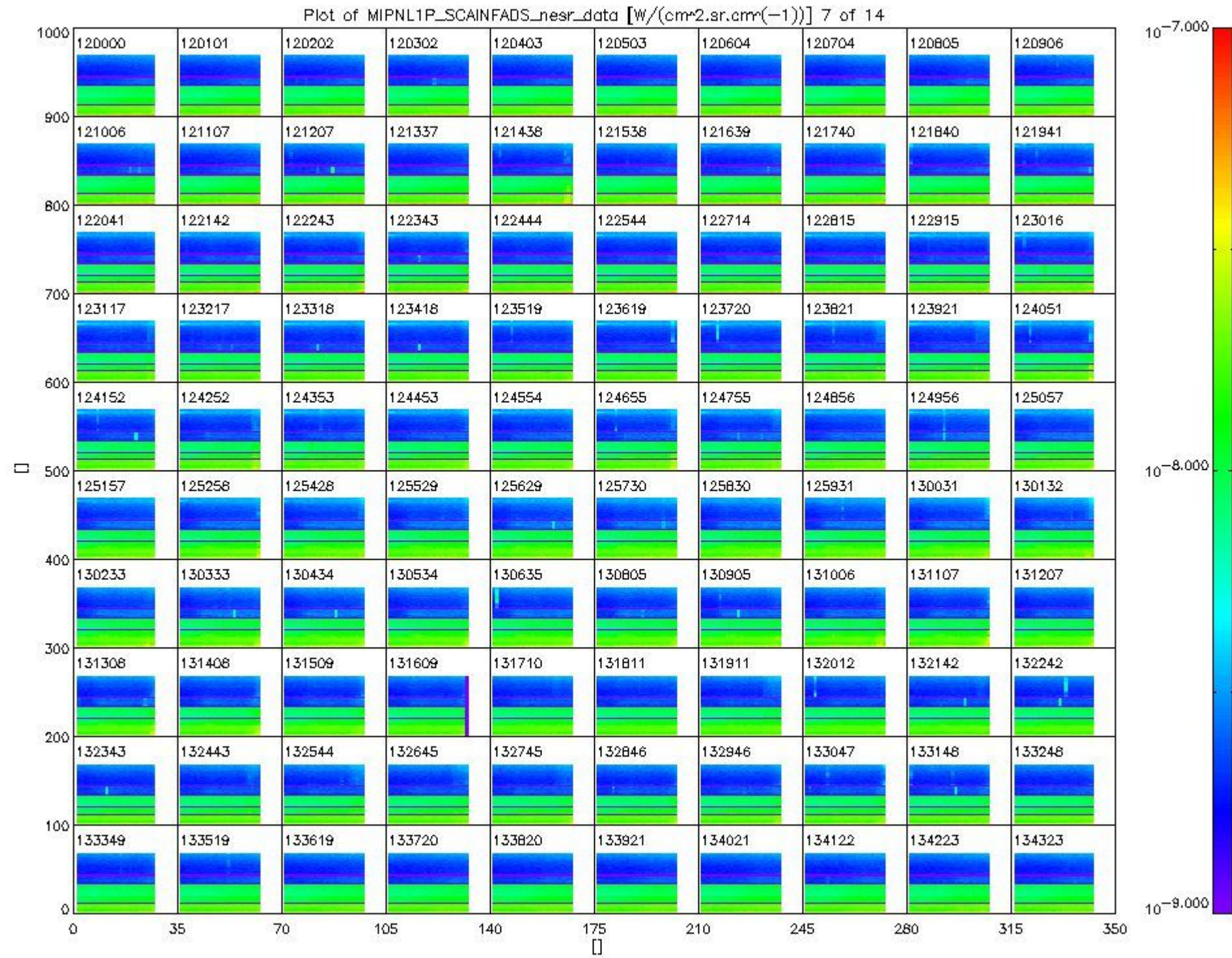








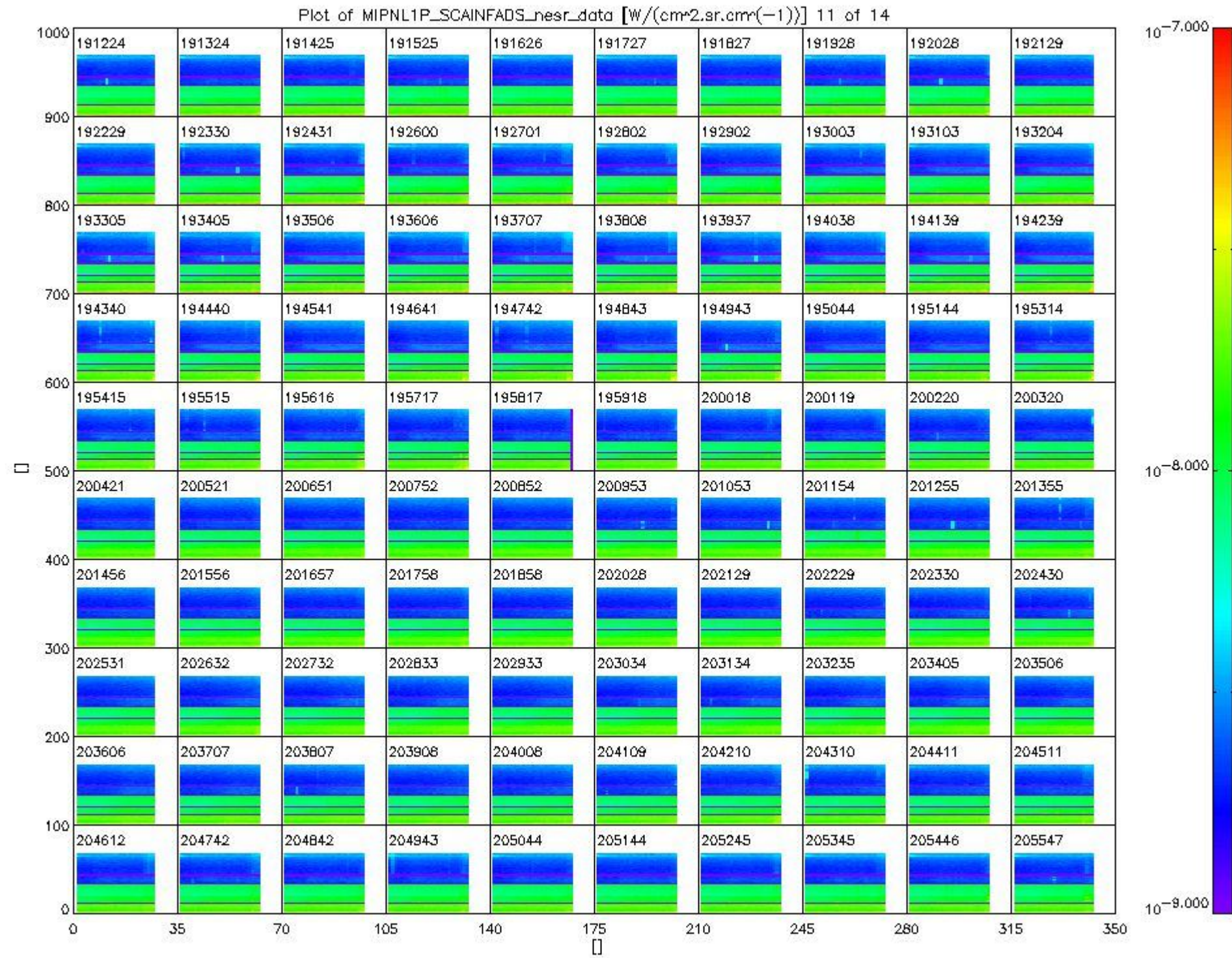


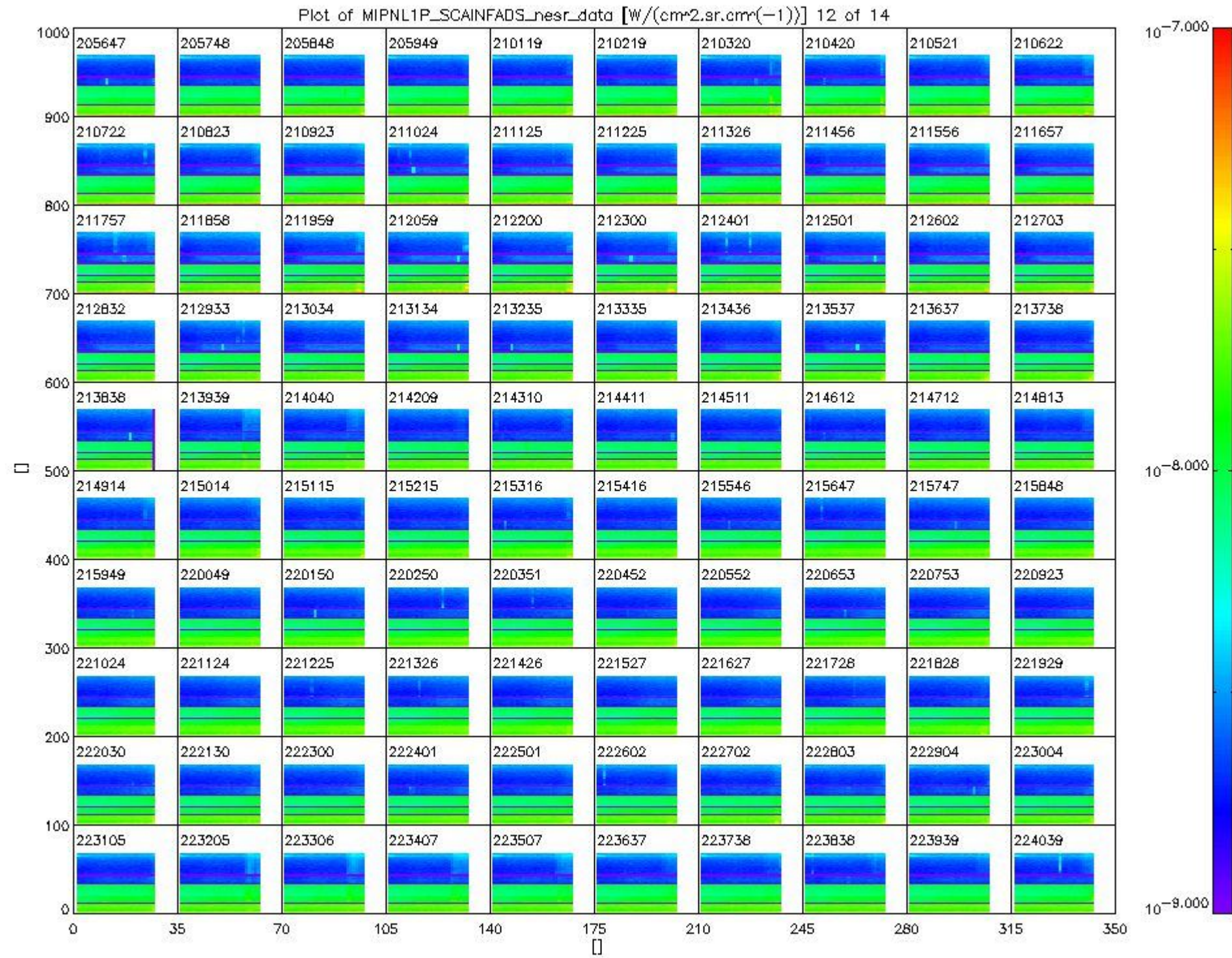




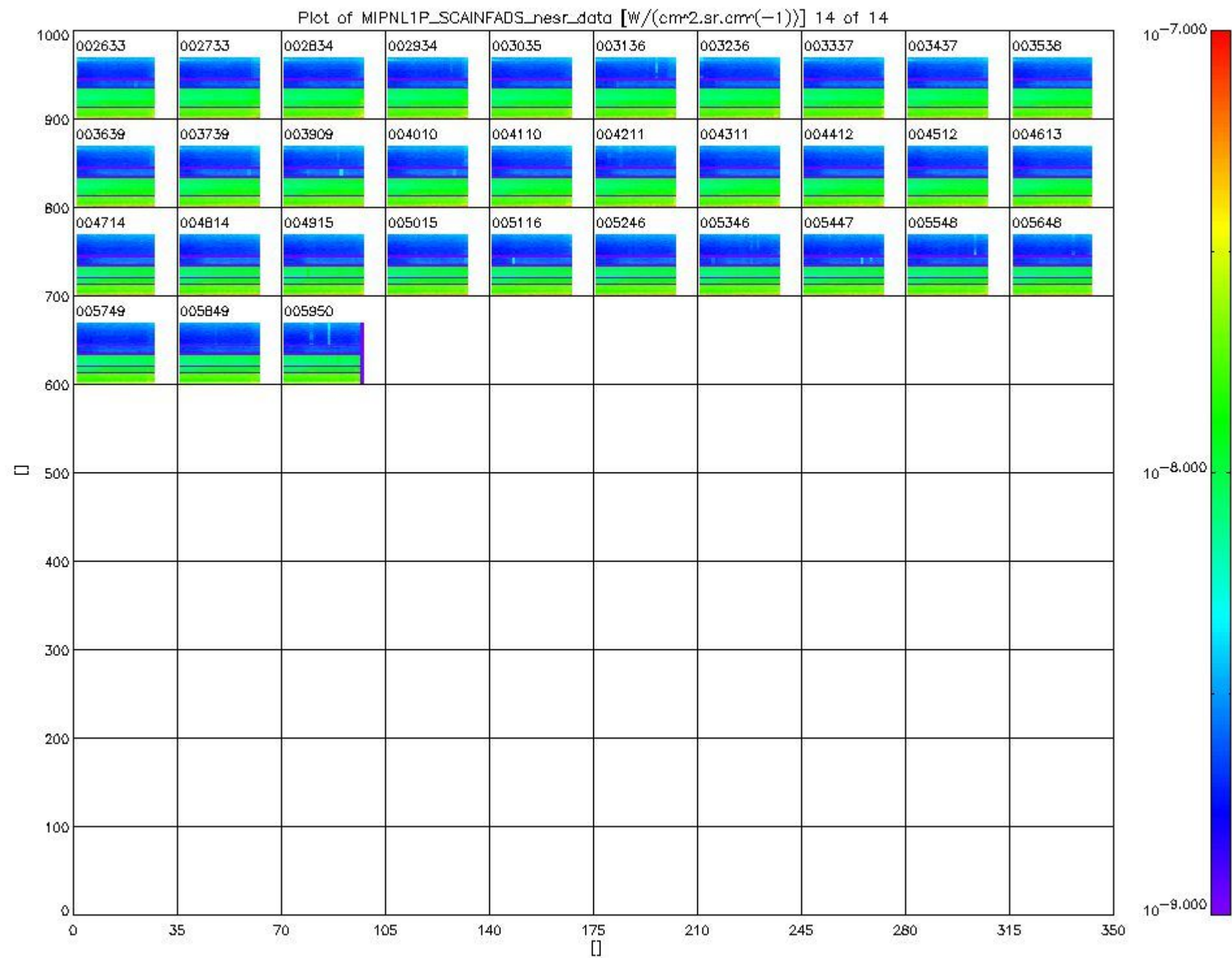








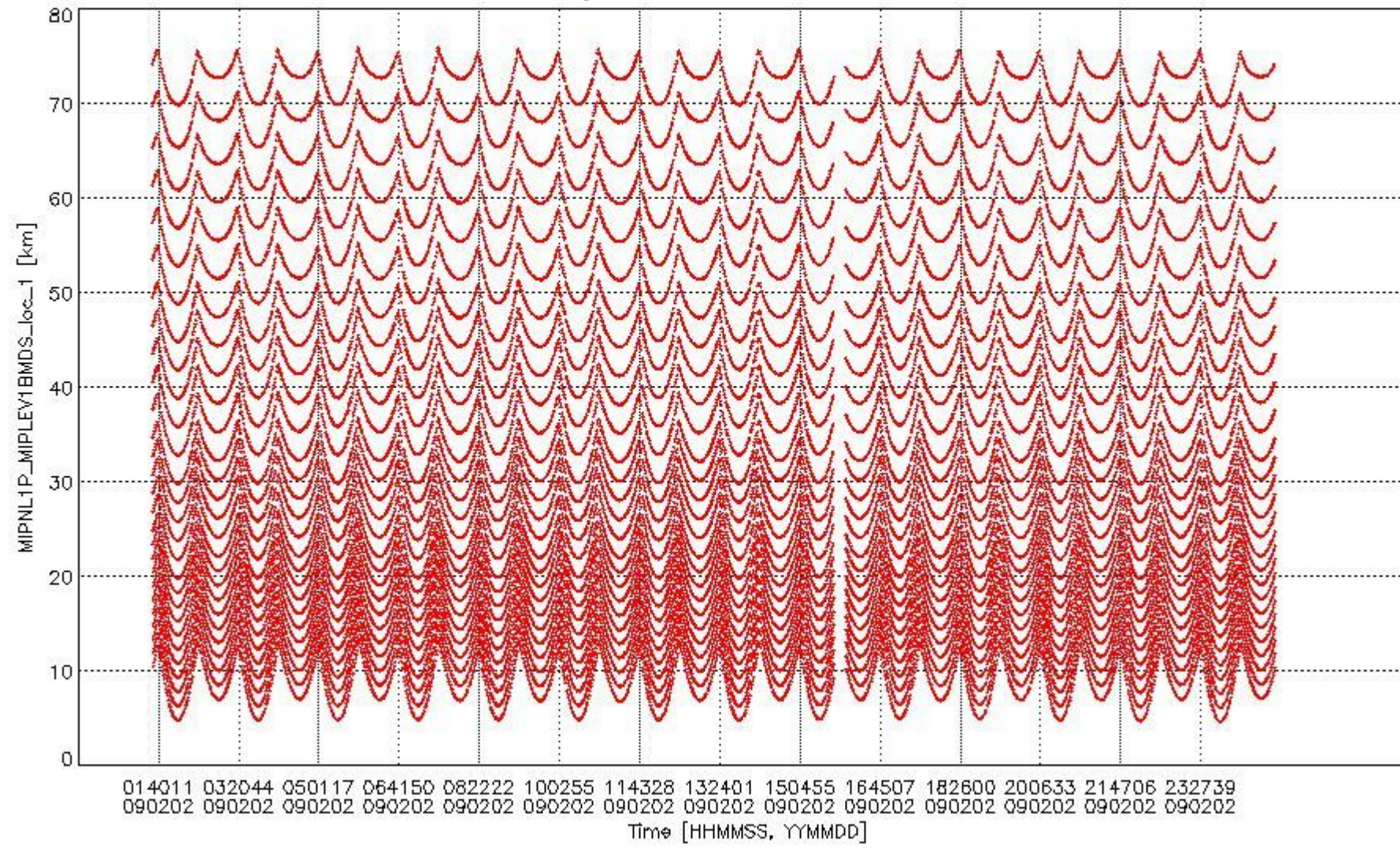


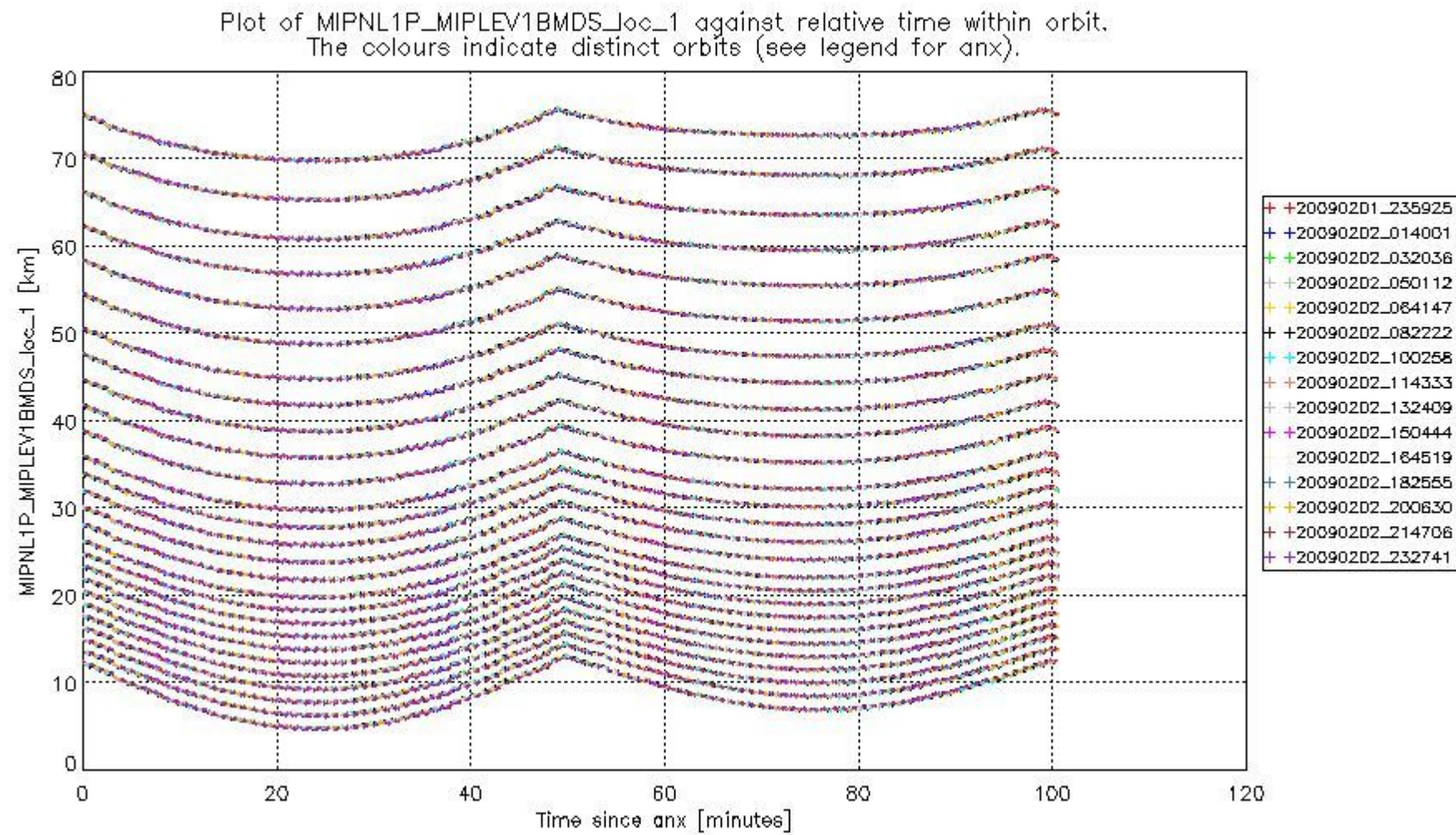


1.3 Physical Quality Indicators

1.3.1 Tangent altitude

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





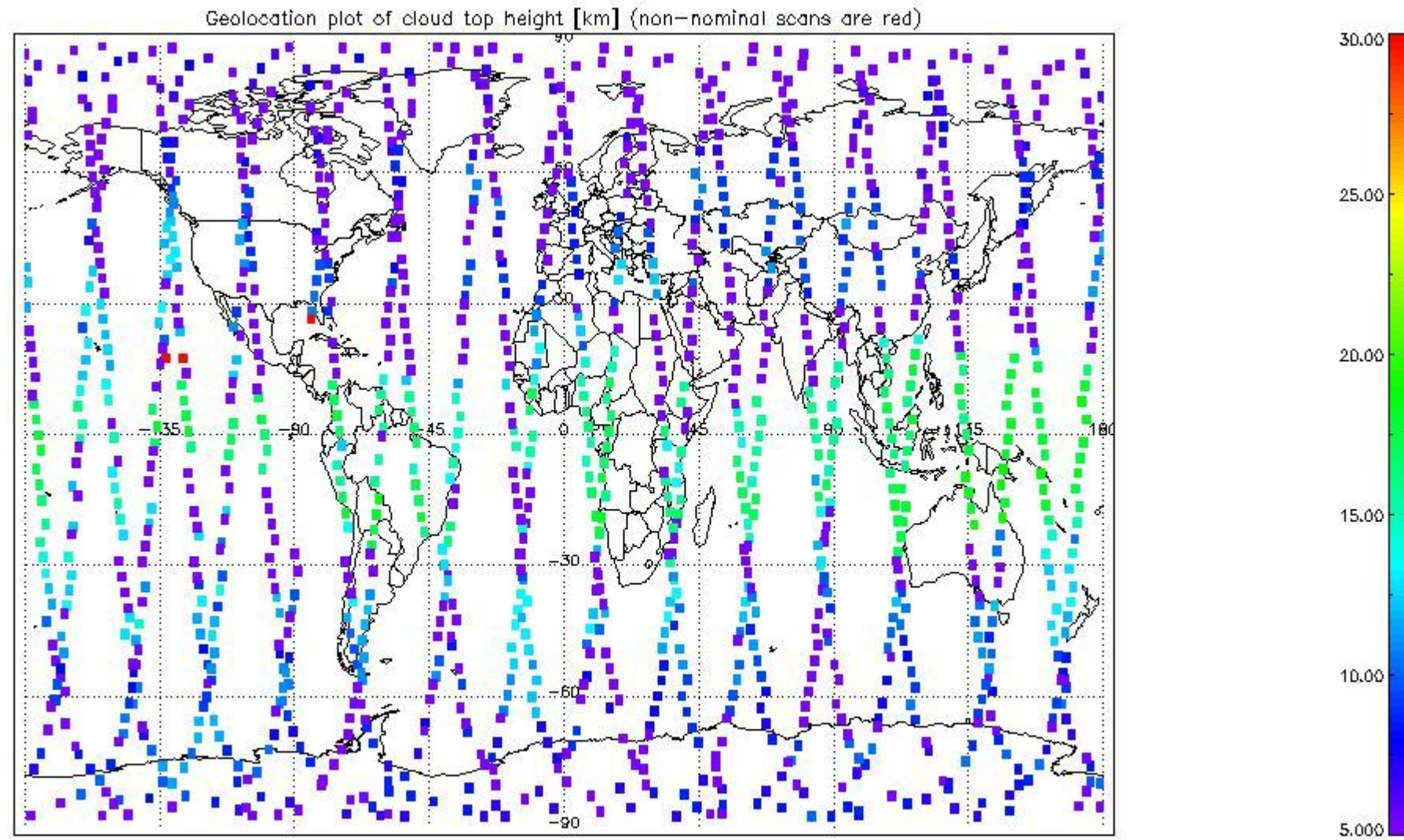
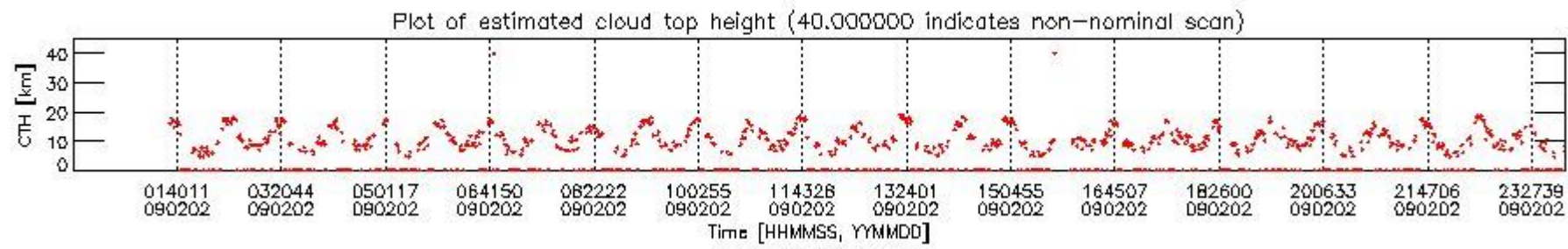
1.3.2 Cloud top height

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)

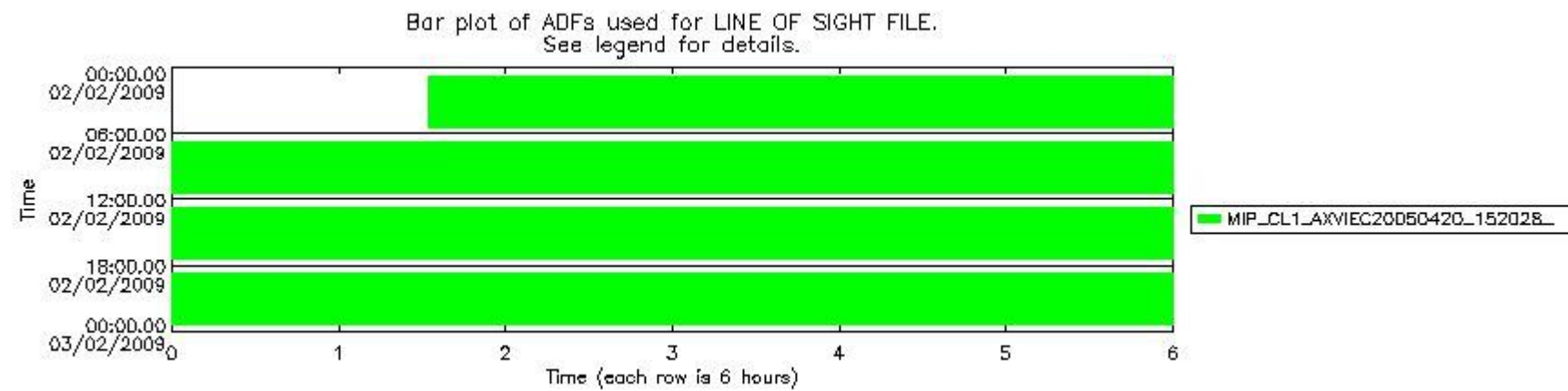
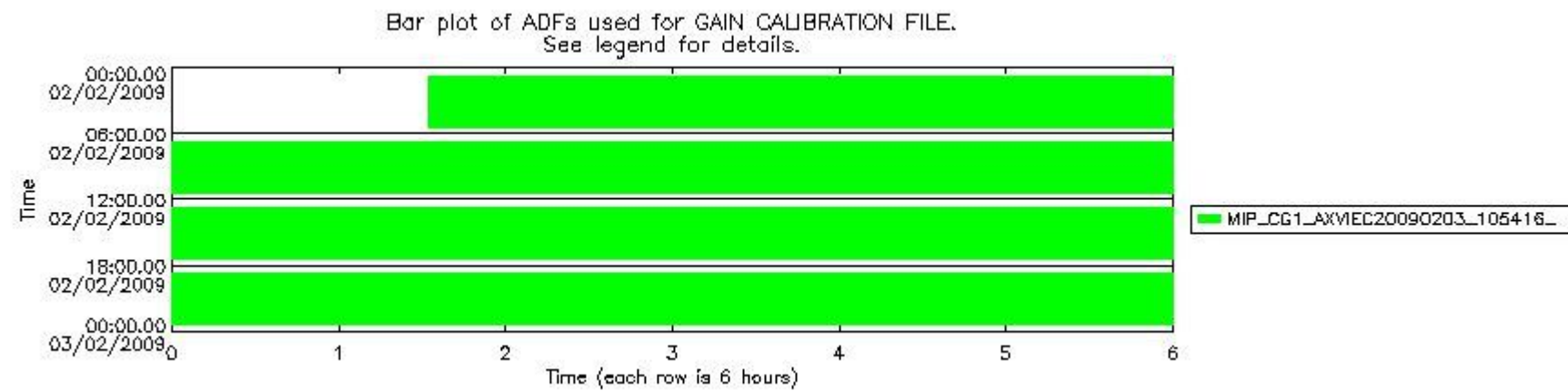
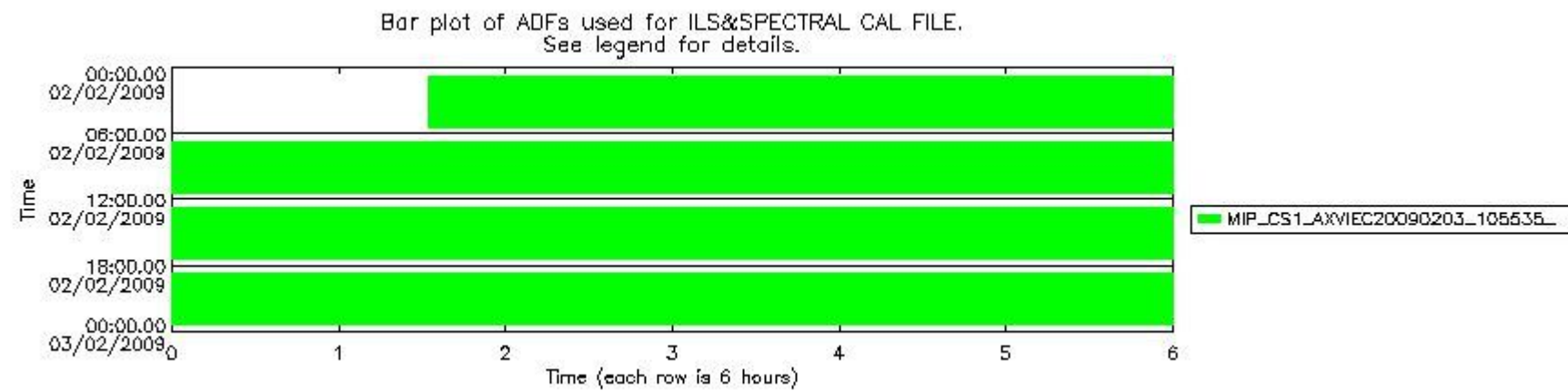
Item	Value
Microwindow 1 description	Average of band A pixels for cloud top detection 1
Microwindow 2 description	Average of band A pixels cloud top detection 2
cloud index threshold (mw1/mw2)	1.8000000
Tangent height limit	40.000000

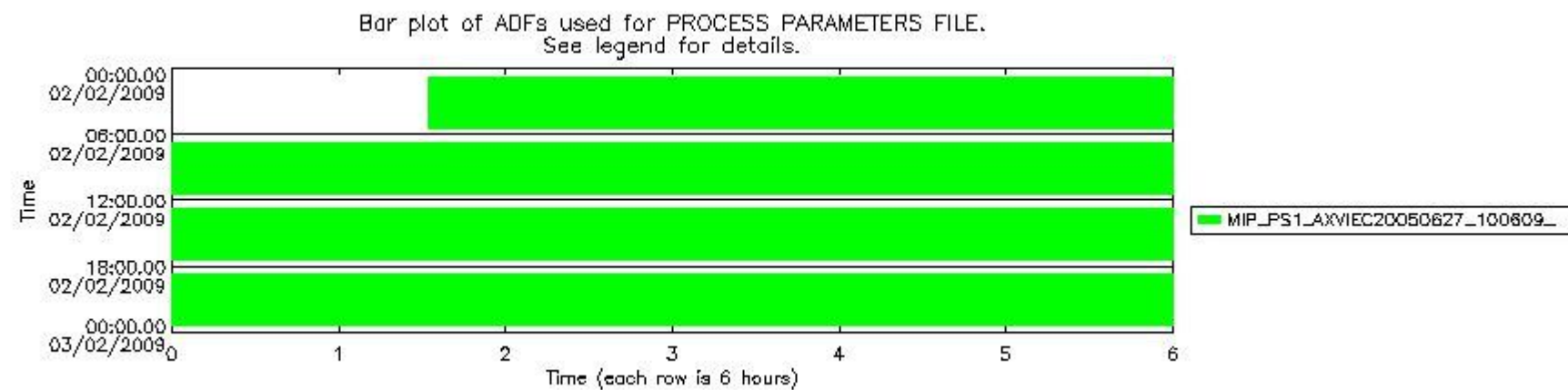
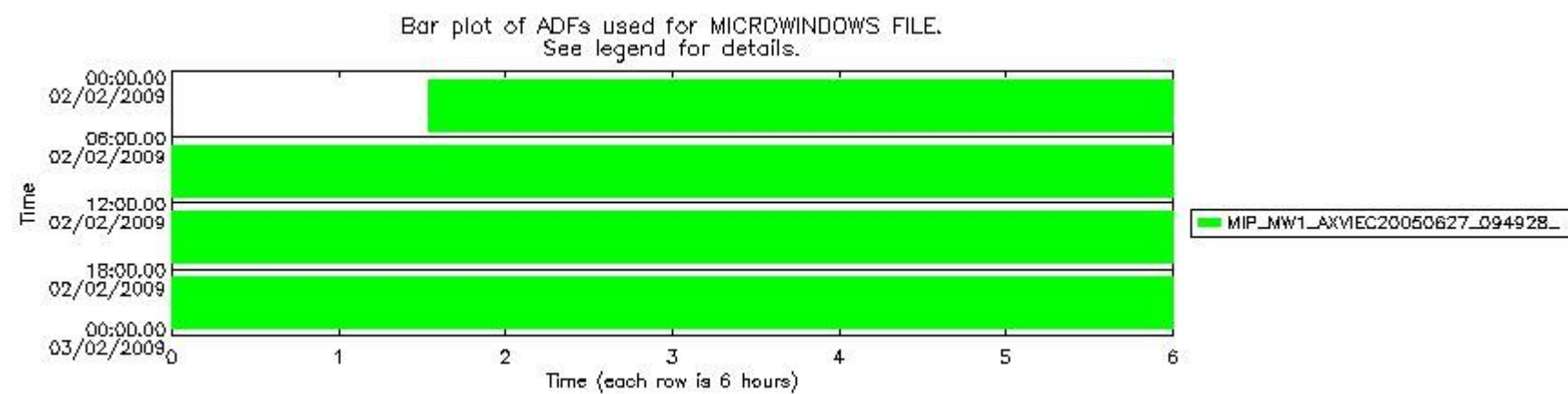
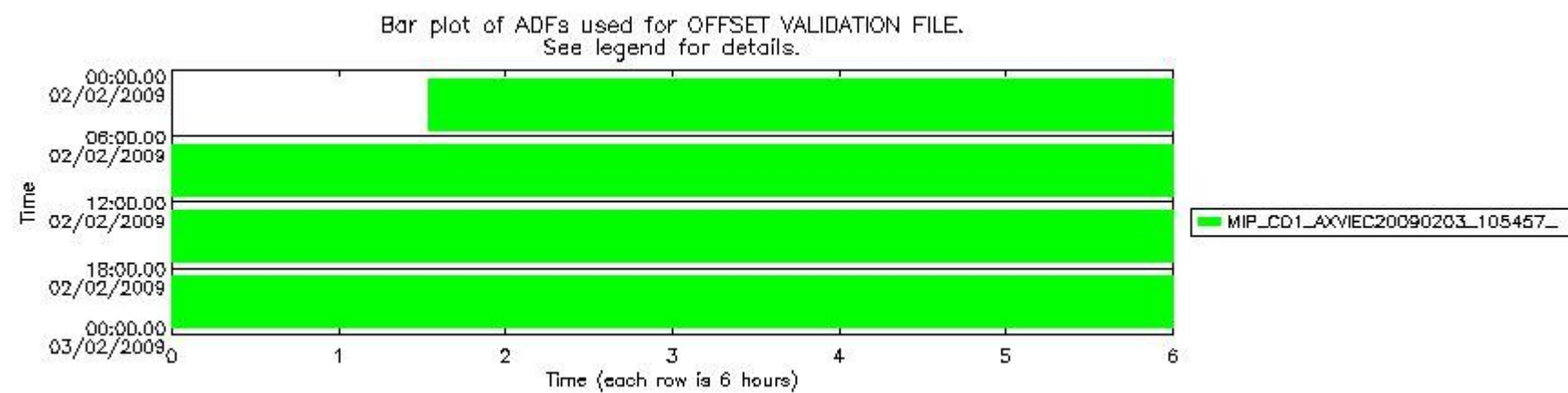
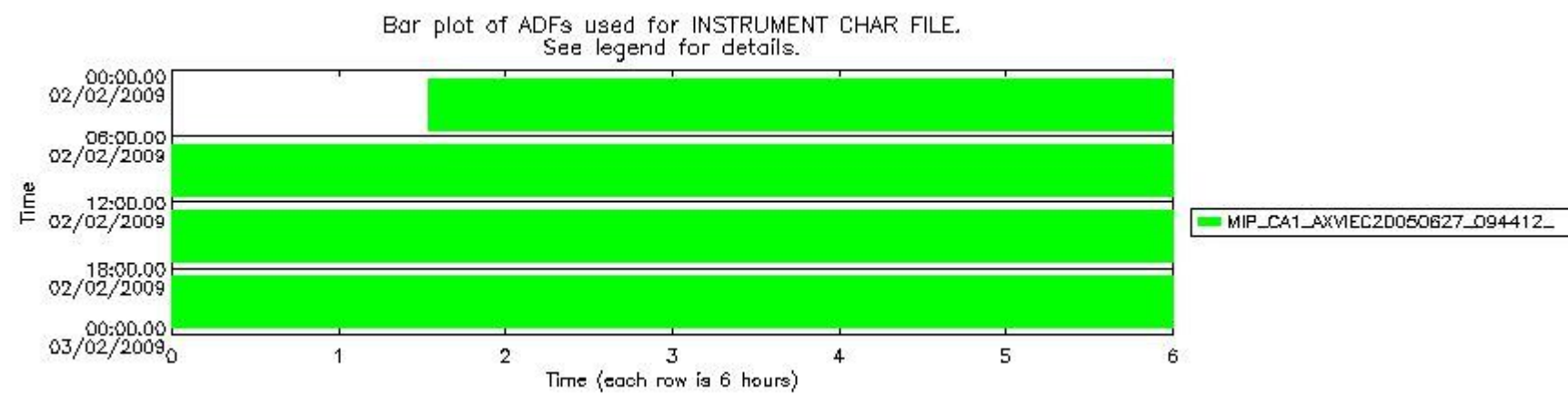


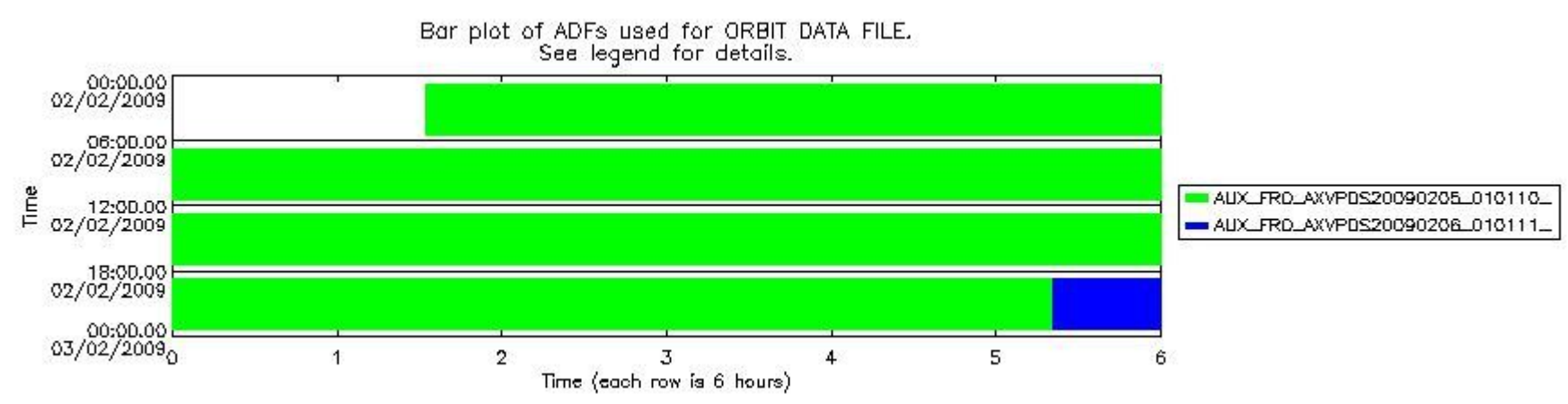
1.4 ADF monitoring

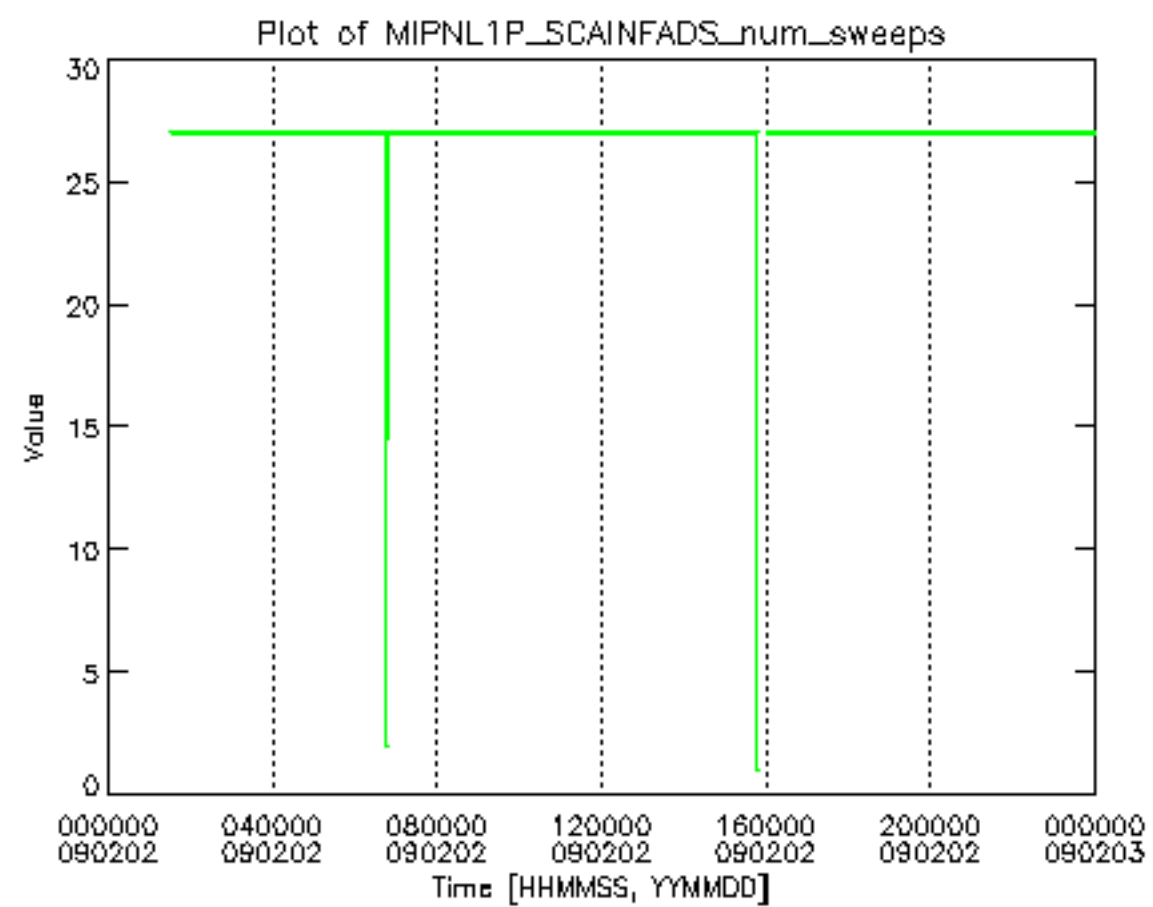
Number	ADF
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1	AUX_FRO_AXVPDS20090206_010111_20090202_221000_20090205_005000
2	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
3	MIP_CG1_AXVIEC20090203_105416_20090202_000000_20140202_000000
4	MIP_CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
5	MIP_CO1_AXVIEC20090203_105457_20090202_000000_20140202_000000
6	MIP_CS1_AXVIEC20090203_105535_20090202_000000_20140202_000000
7	MIP_MW1_AXVIEC20050627_094928_20040809_000000_20090809_000000
8	MIP_PS1_AXVIEC20050627_100609_20040809_000000_20090809_000000

Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL_1PPDPA20090202_013227_000060152076_00089_36215_8941.N1	6	3	4	2	5	7	8	0
1	MIP_NL_1PPDPA20090202_031318_000060152076_00090_36216_8943.N1	6	3	4	2	5	7	8	0
2	MIP_NL_1PPDPA20090202_045339_000060152076_00091_36217_8945.N1	6	3	4	2	5	7	8	0
3	MIP_NL_1PPDPA20090202_063400_000060312076_00091_36217_8950.N1	6	3	4	2	5	7	8	0
4	MIP_NL_1PPDPA20090202_081437_000060762076_00093_36219_8952.N1	6	3	4	2	5	7	8	0
5	MIP_NL_1PPDPA20090202_095559_000059842076_00094_36220_8954.N1	6	3	4	2	5	7	8	0
6	MIP_NL_1PPDPA20090202_113548_000060762076_00095_36221_8956.N1	6	3	4	2	5	7	8	0
7	MIP_NL_1PPDPA20090202_131710_000059552076_00096_36222_8959.N1	6	3	4	2	5	7	8	0
8	MIP_NL_1PPDPA20090202_145700_000060612076_00097_36223_8964.N1	6	3	4	2	5	7	8	0
9	MIP_NL_1PPDPA20090202_163806_000060452076_00098_36224_8991.N1	6	3	4	2	5	7	8	0
10	MIP_NL_1PPDPA20090202_181857_000060152076_00099_36225_8993.N1	6	3	4	2	5	7	8	0
11	MIP_NL_1PPDPA20090202_195918_000060152076_00100_36226_8995.N1	6	3	4	2	5	7	8	0
12	MIP_NL_1PPDPA20090202_213939_000060452076_00101_36227_8997.N1	6	3	4	2	5	7	8	0
13	MIP_NL_1PPDPA20090202_232029_000060152076_00102_36228_9000.N1	6	3	4	2	5	7	8	1

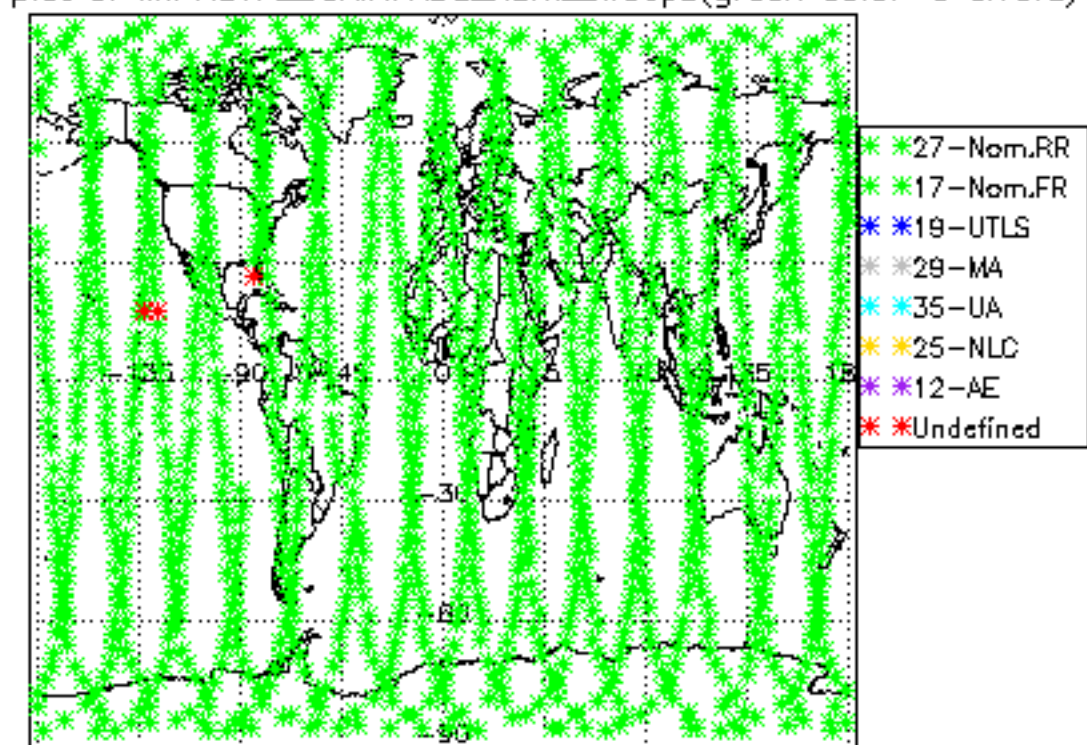


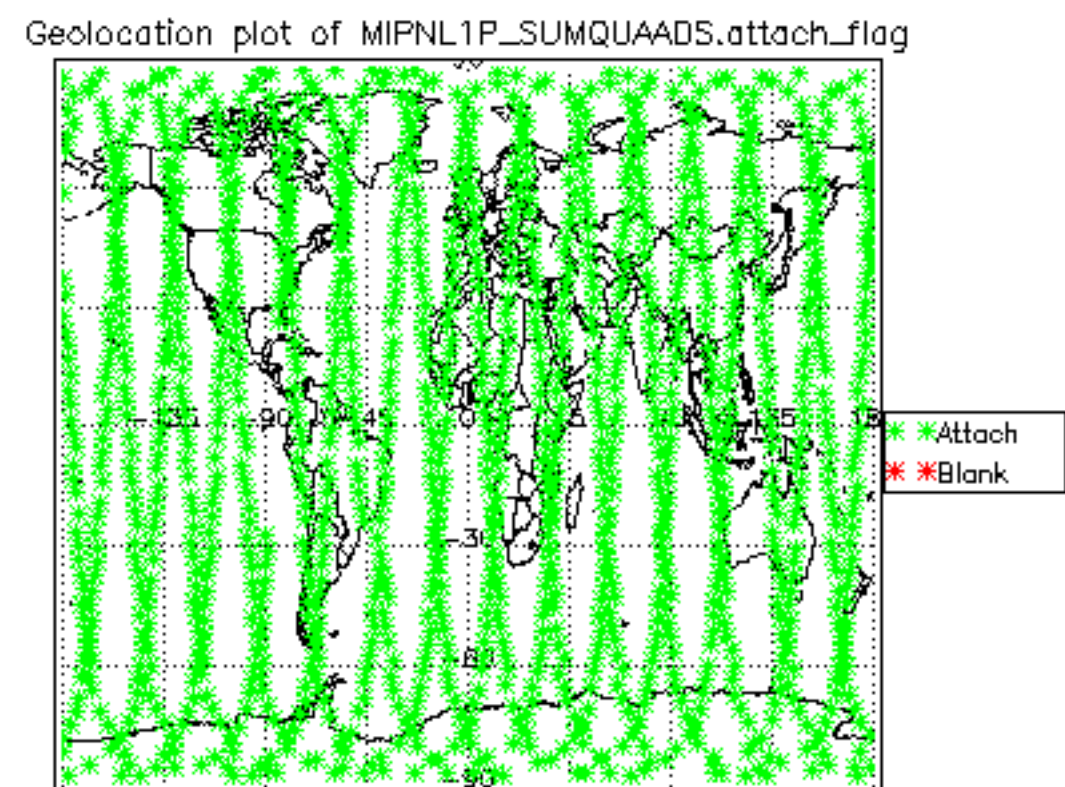
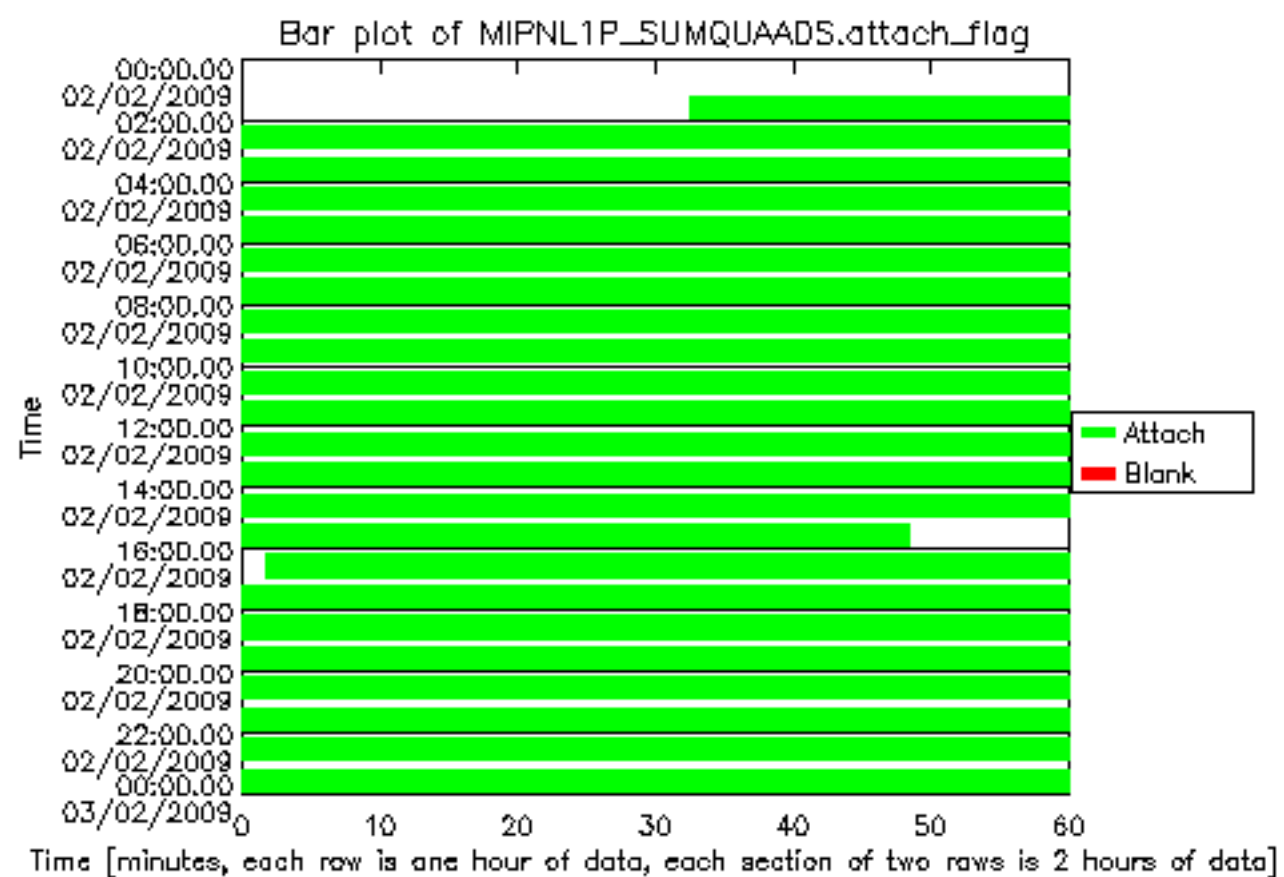


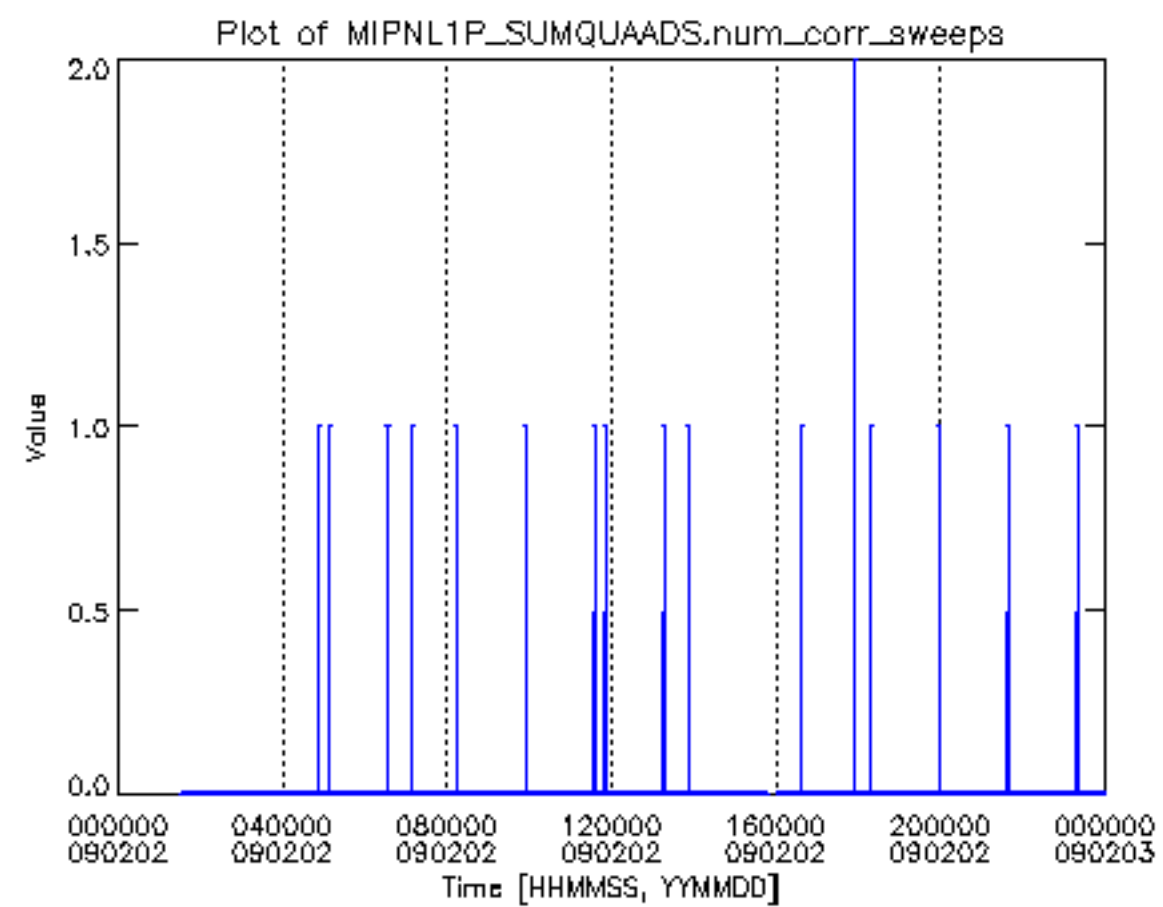




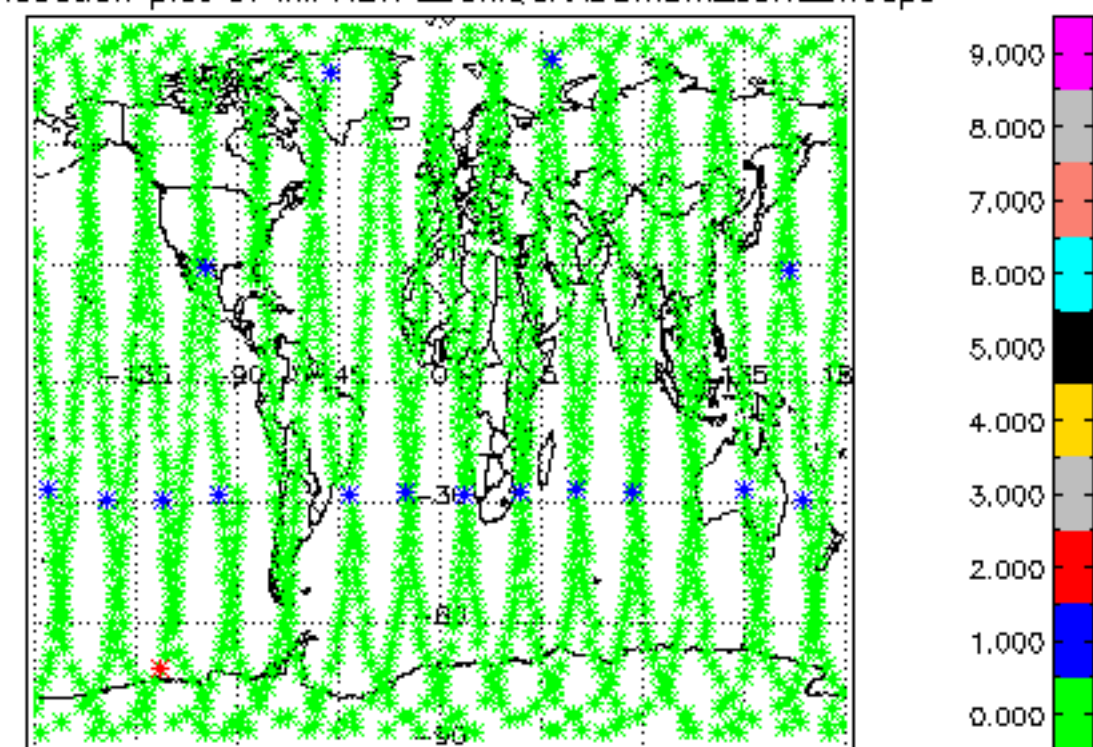
Geolocation plot of MIPNL1P_SCAINFADS_num_sweeps(green color=0 errors)

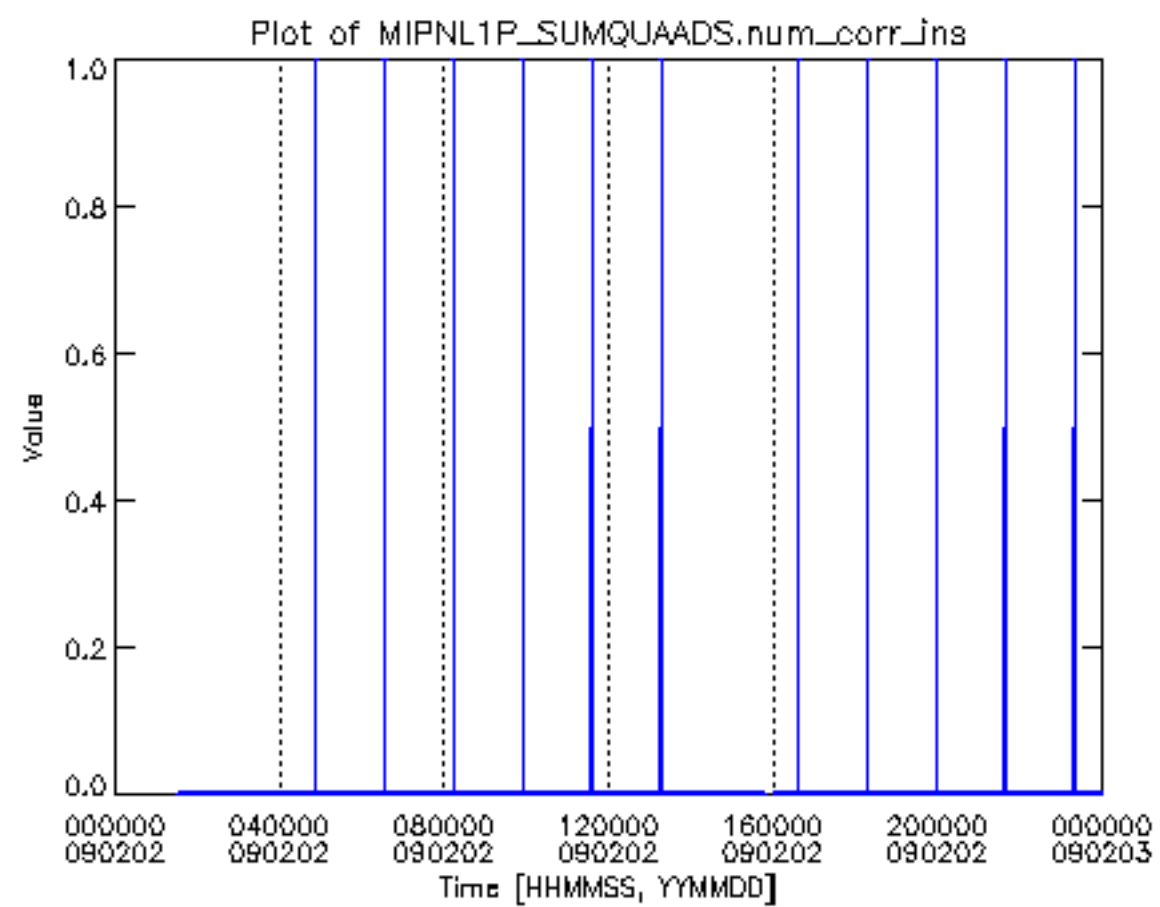




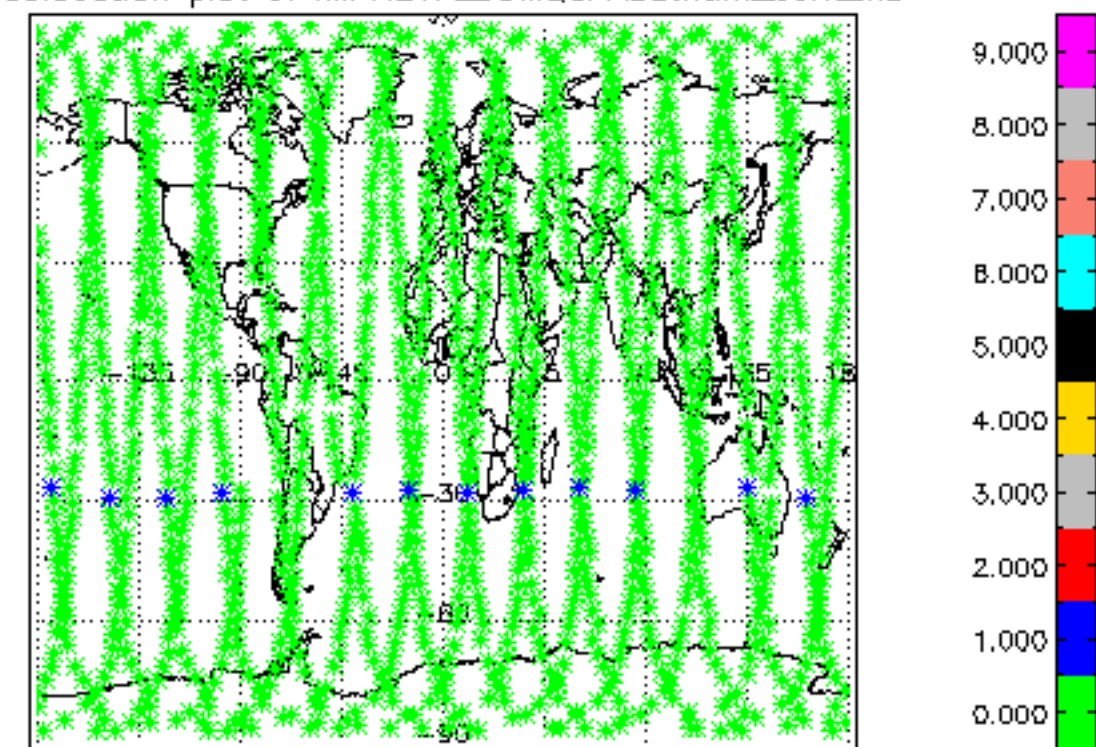


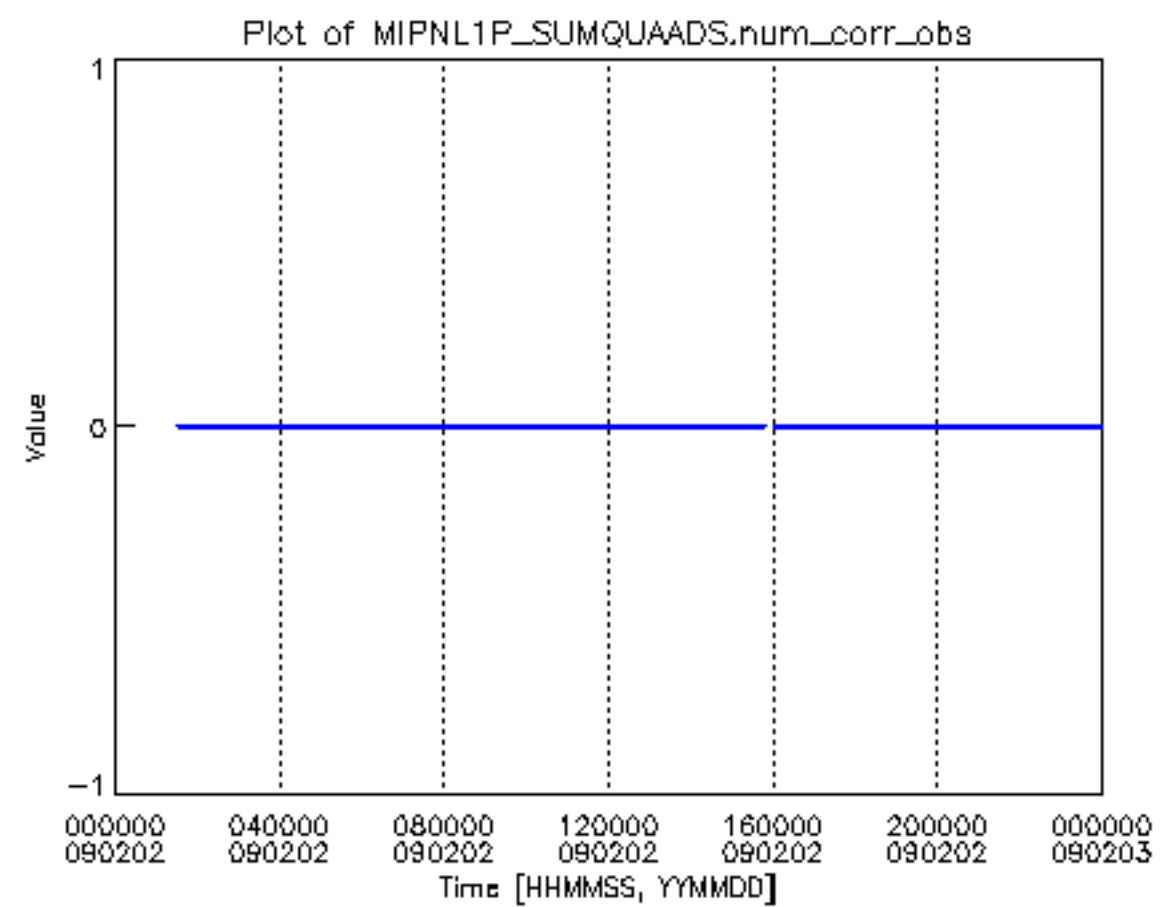
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps



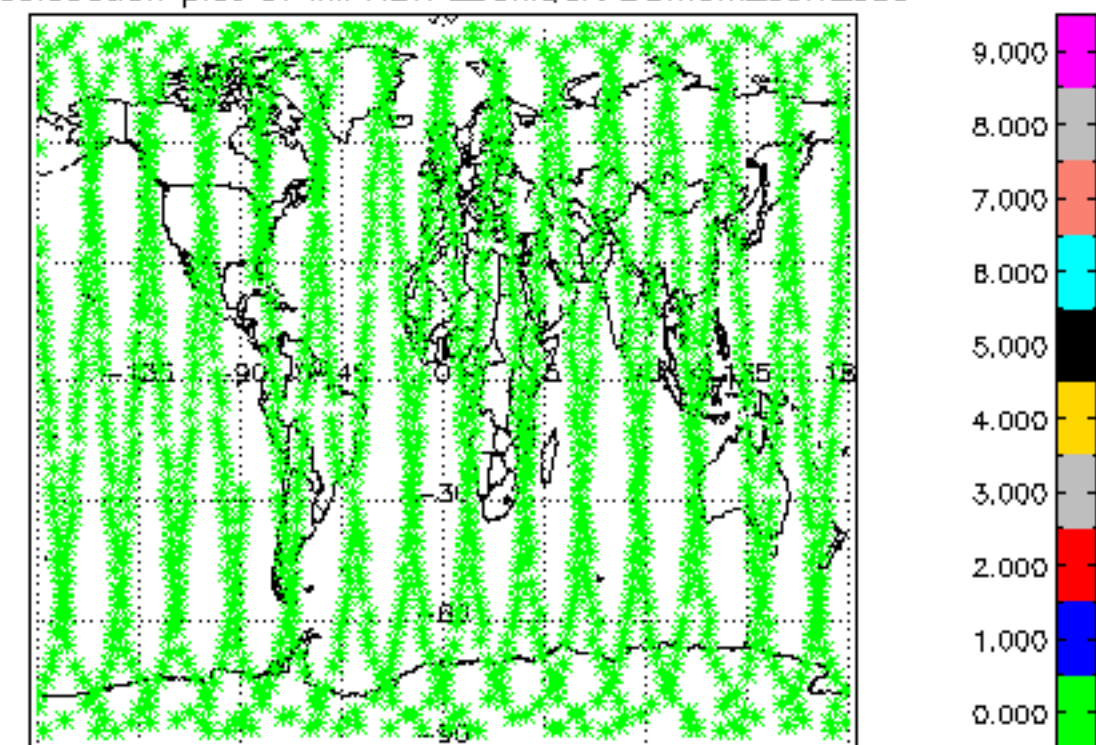


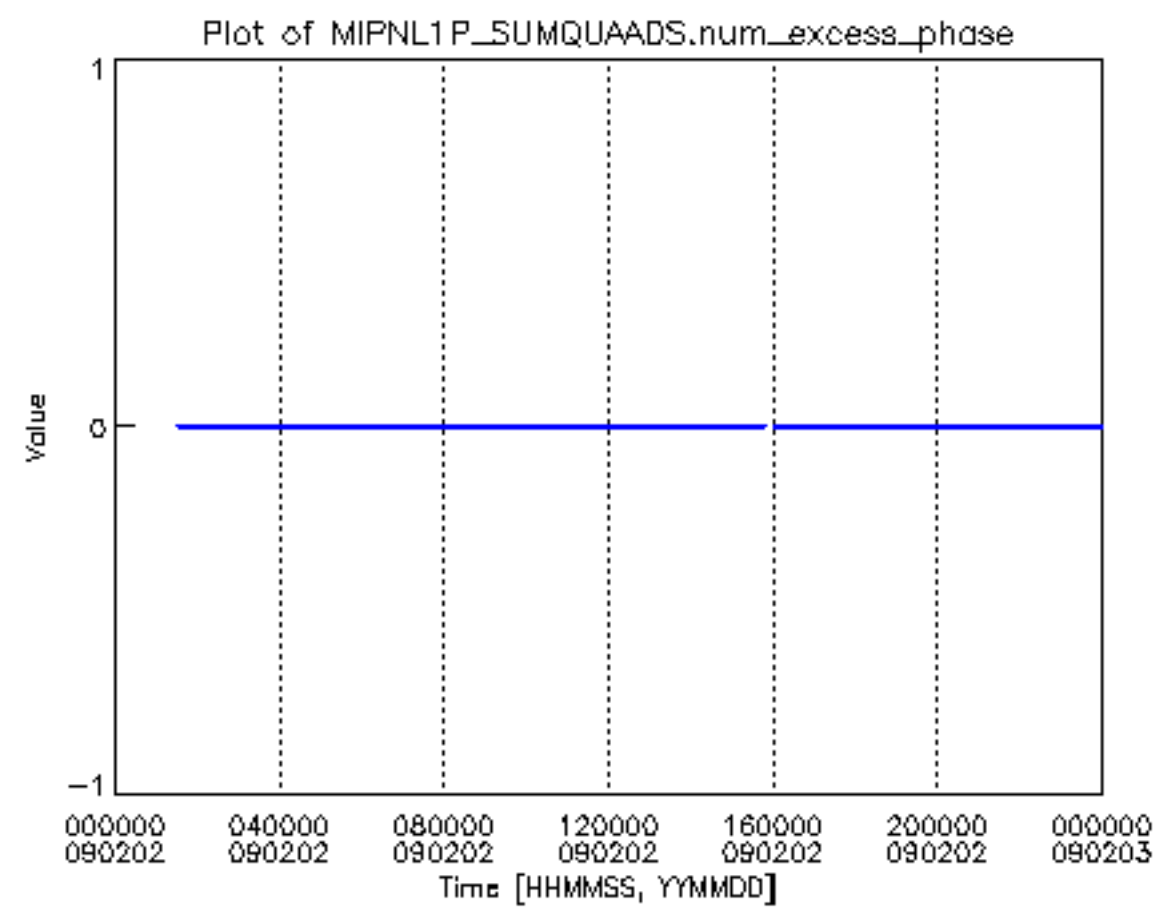
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins



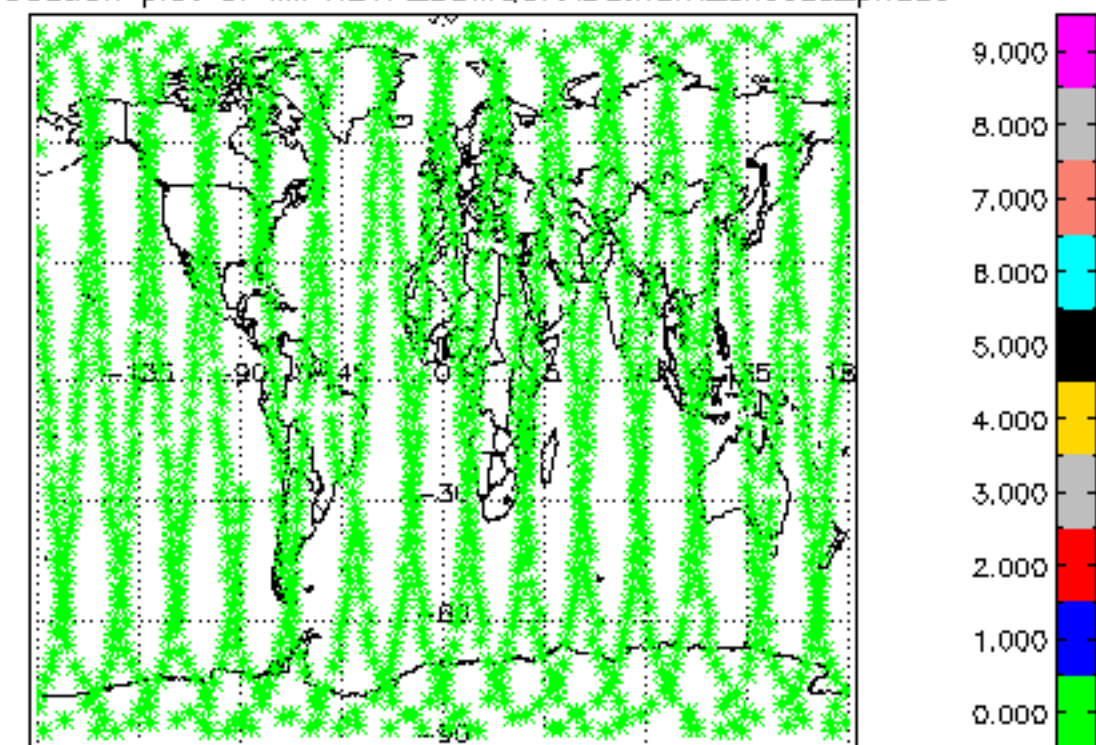


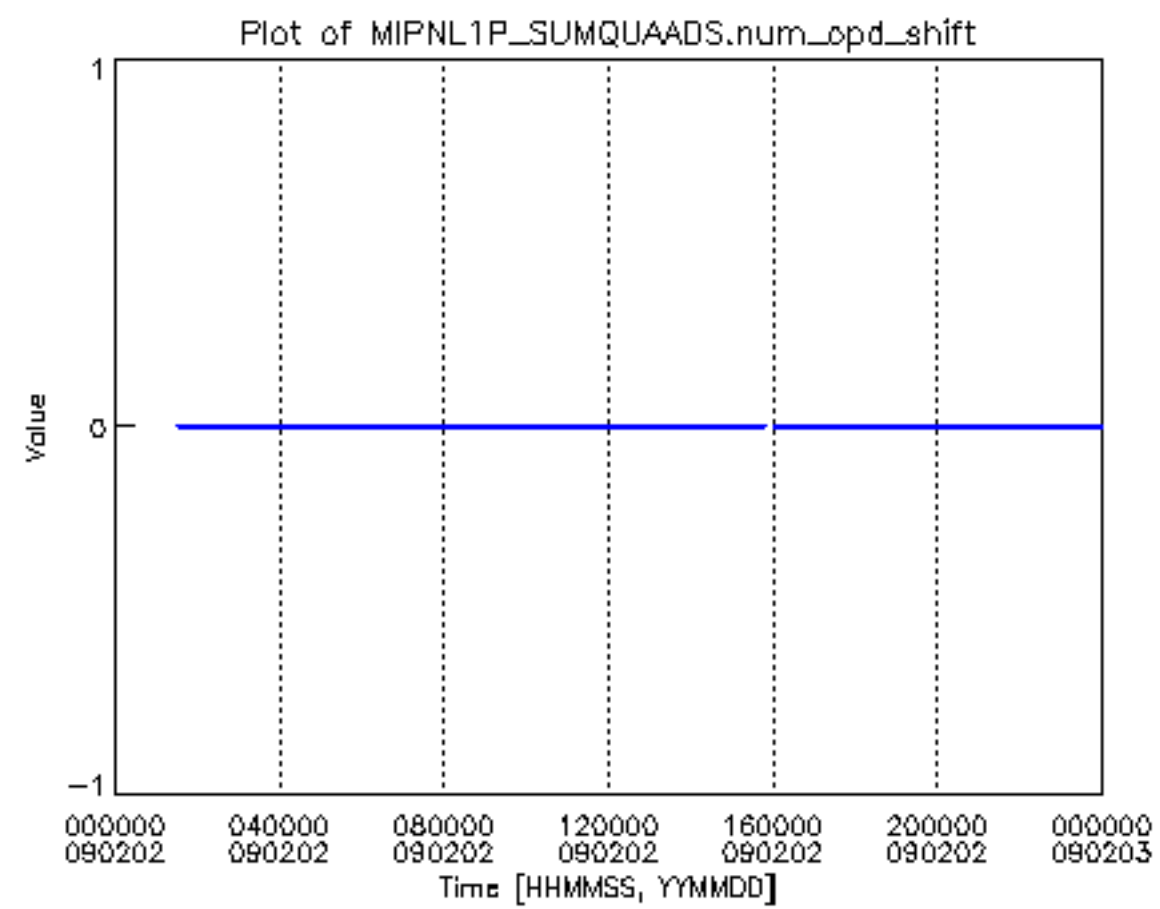
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs



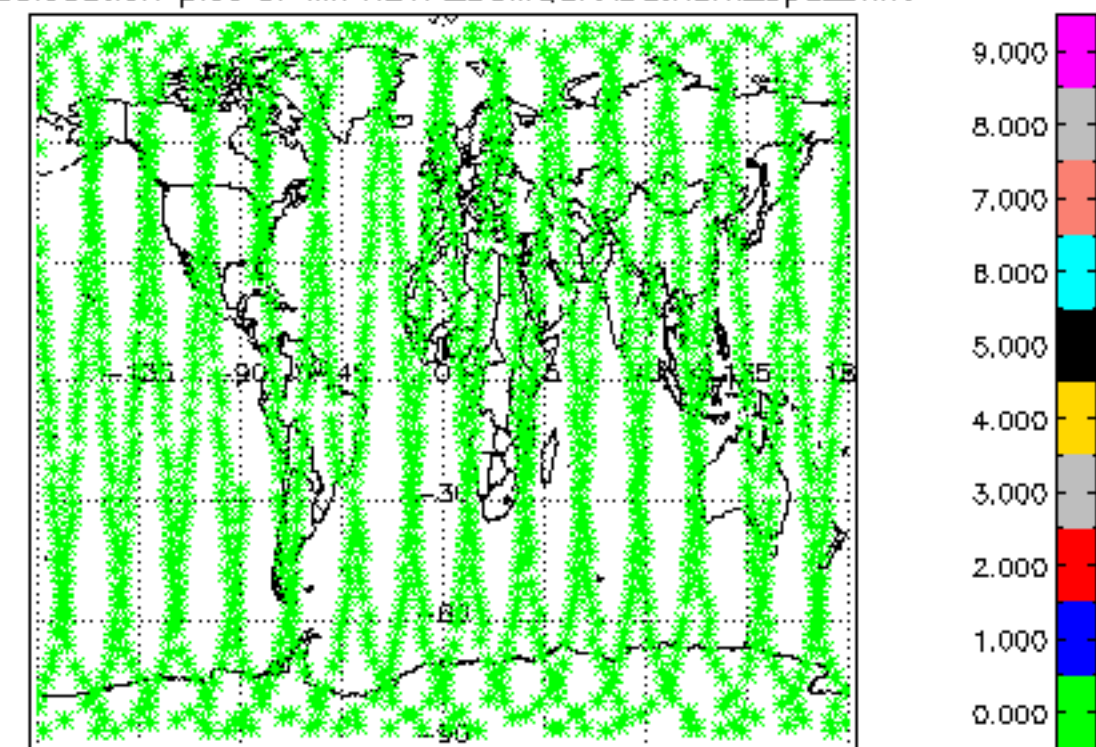


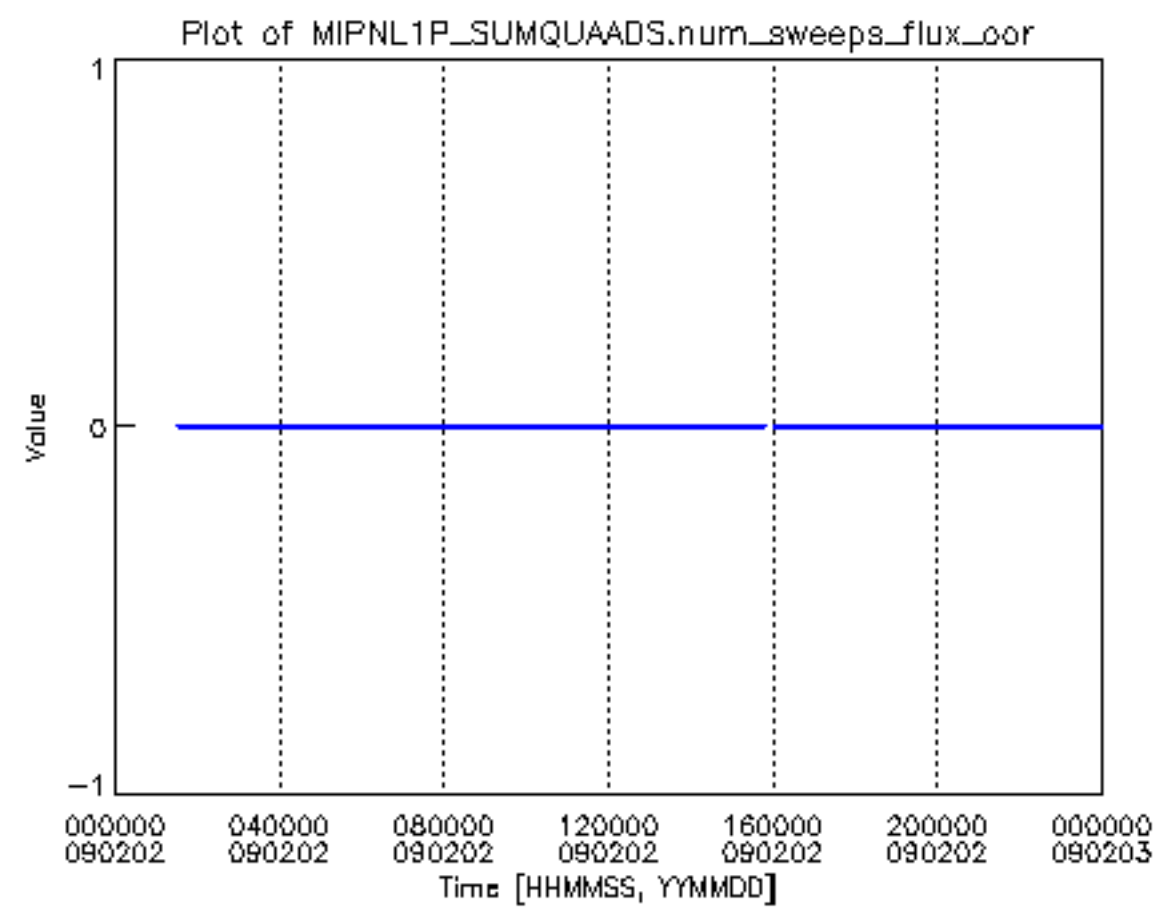
Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase



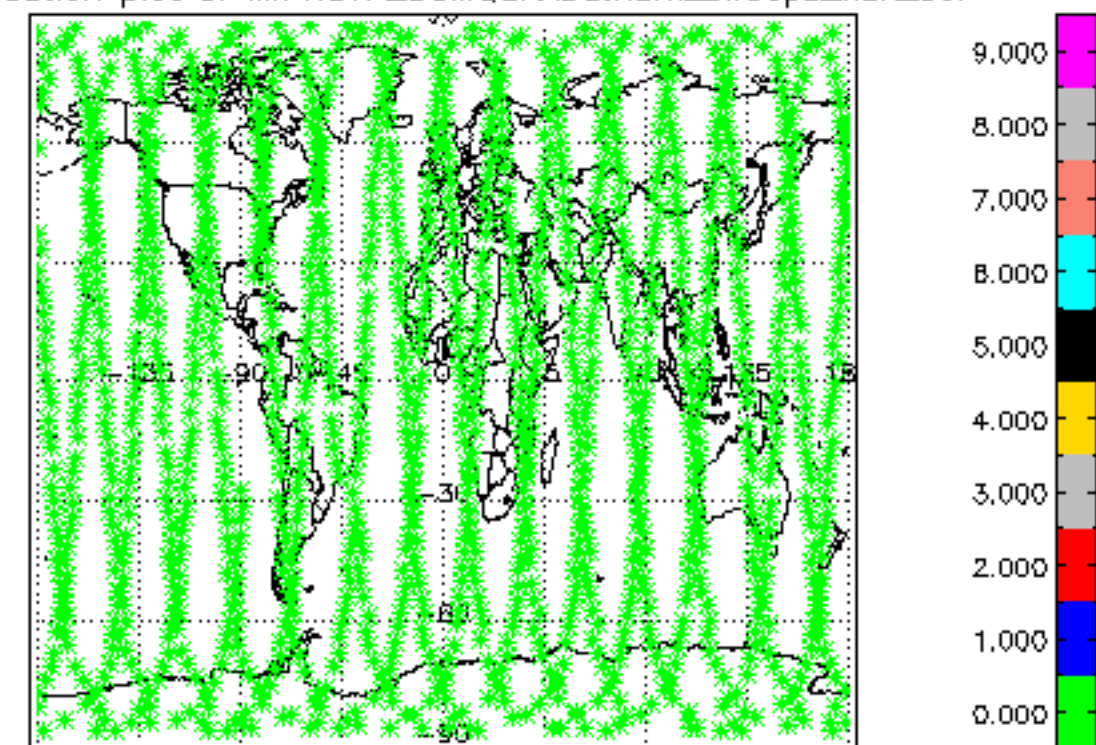


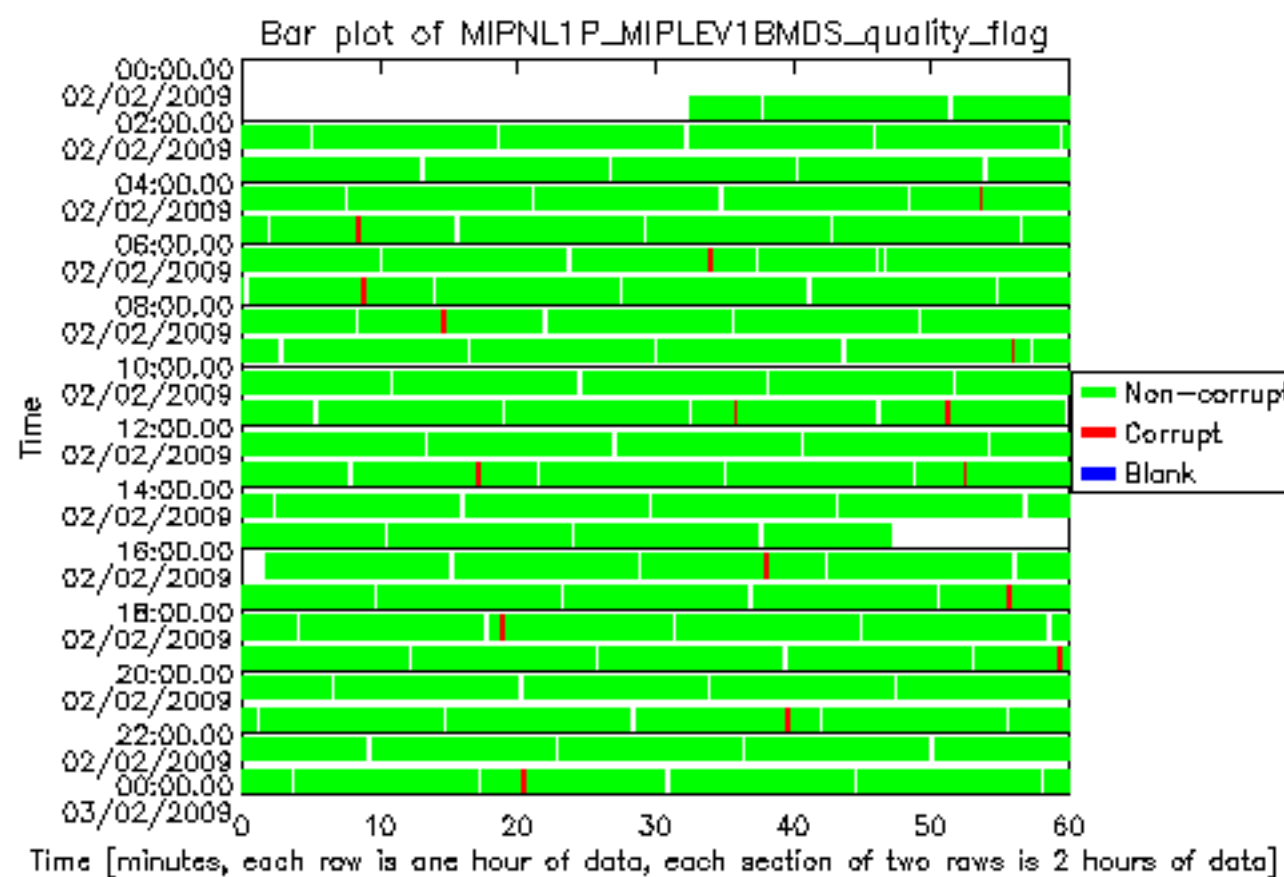
Geolocation plot of MIPNL1P_SUMQUAADS.num_opd_shift



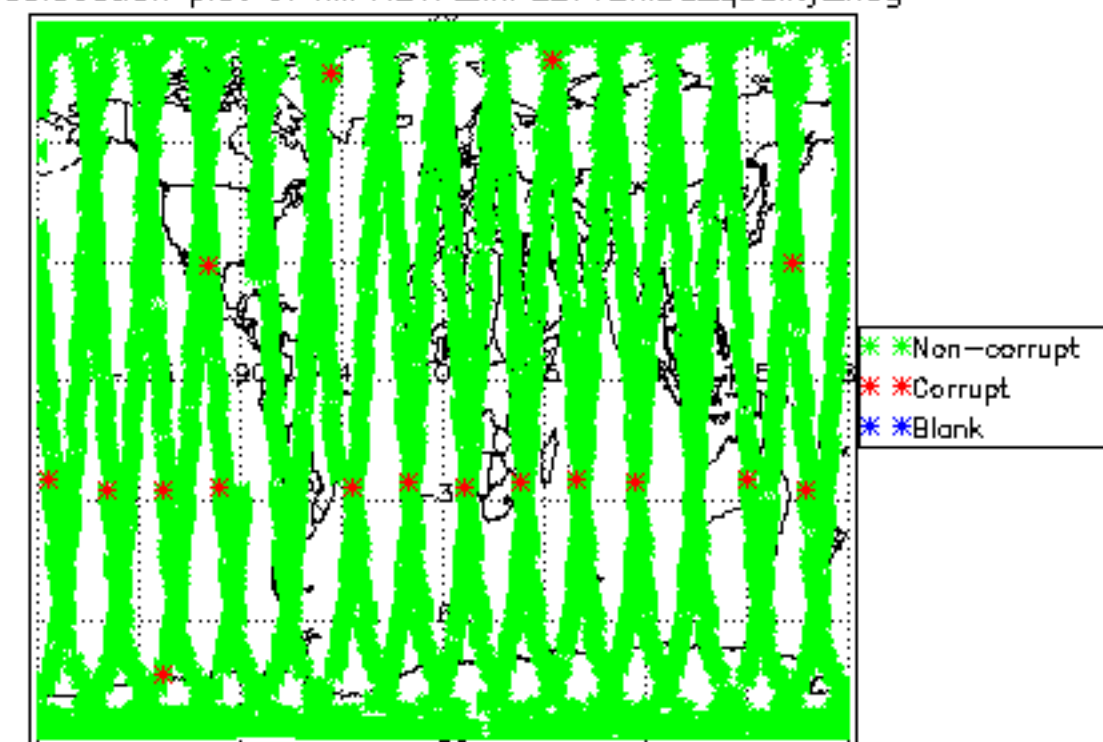


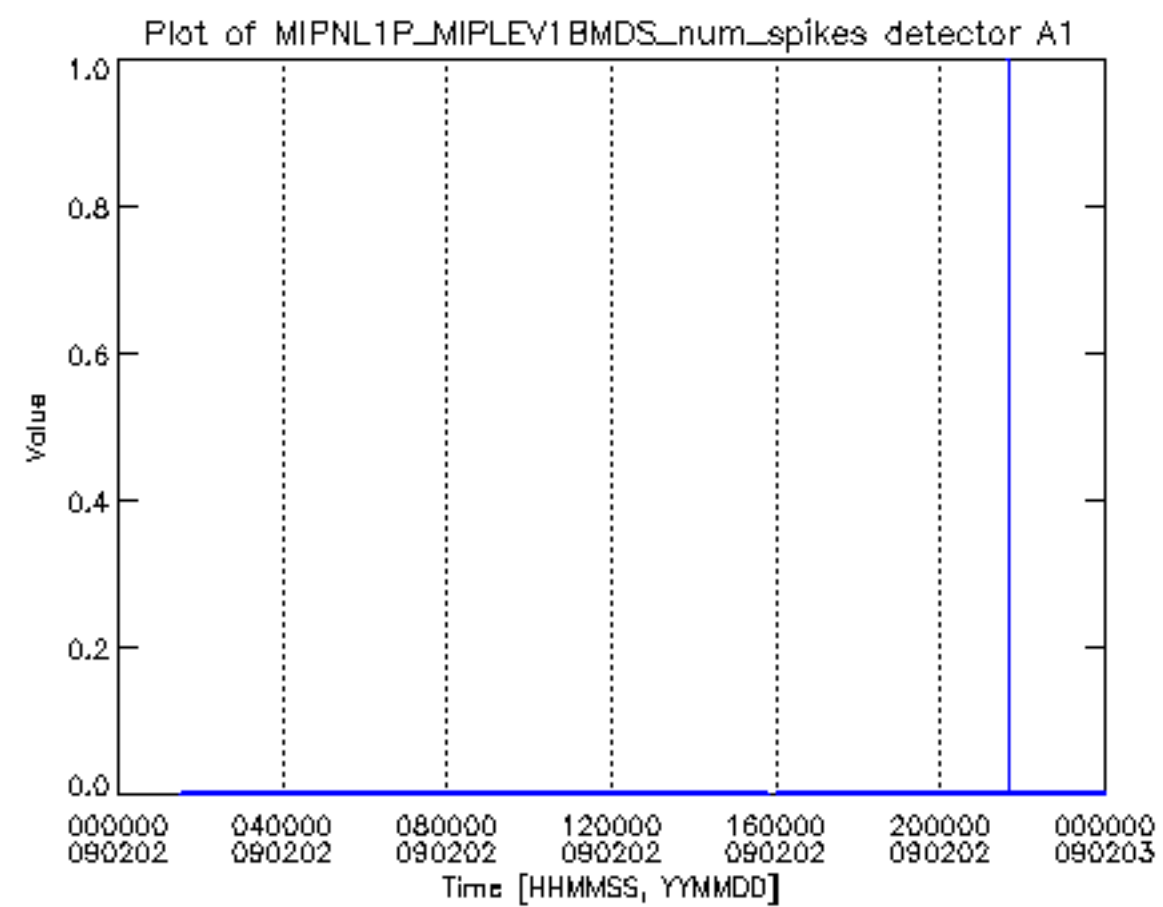
Geolocation plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor



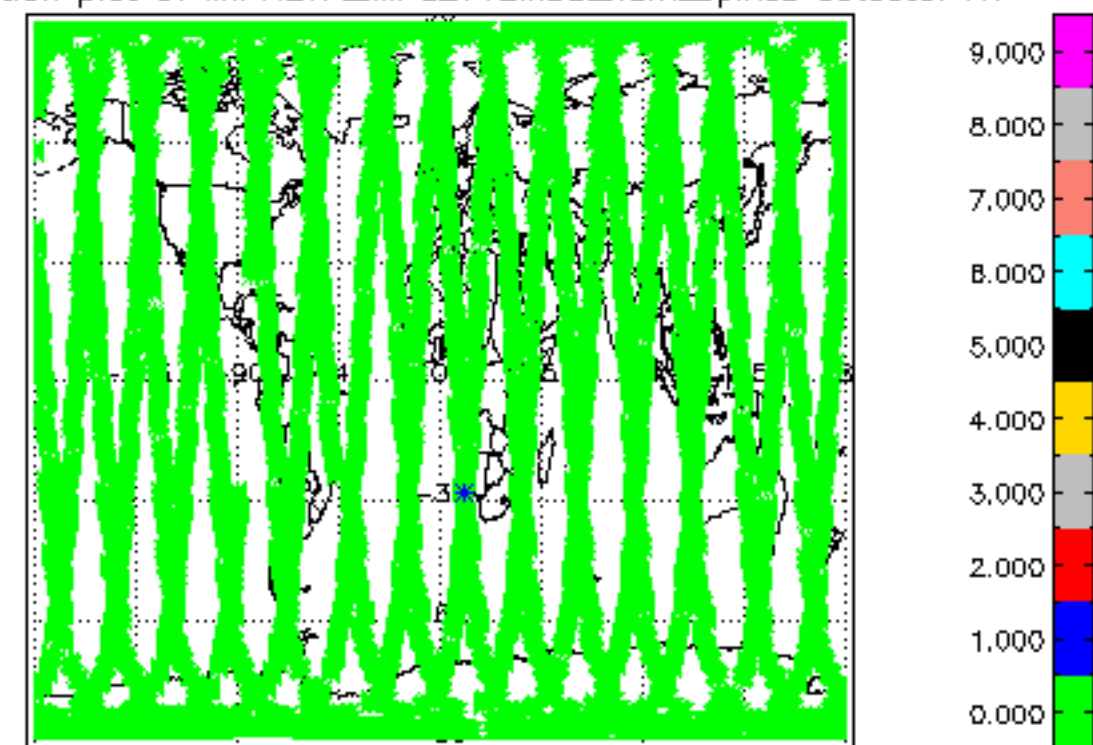


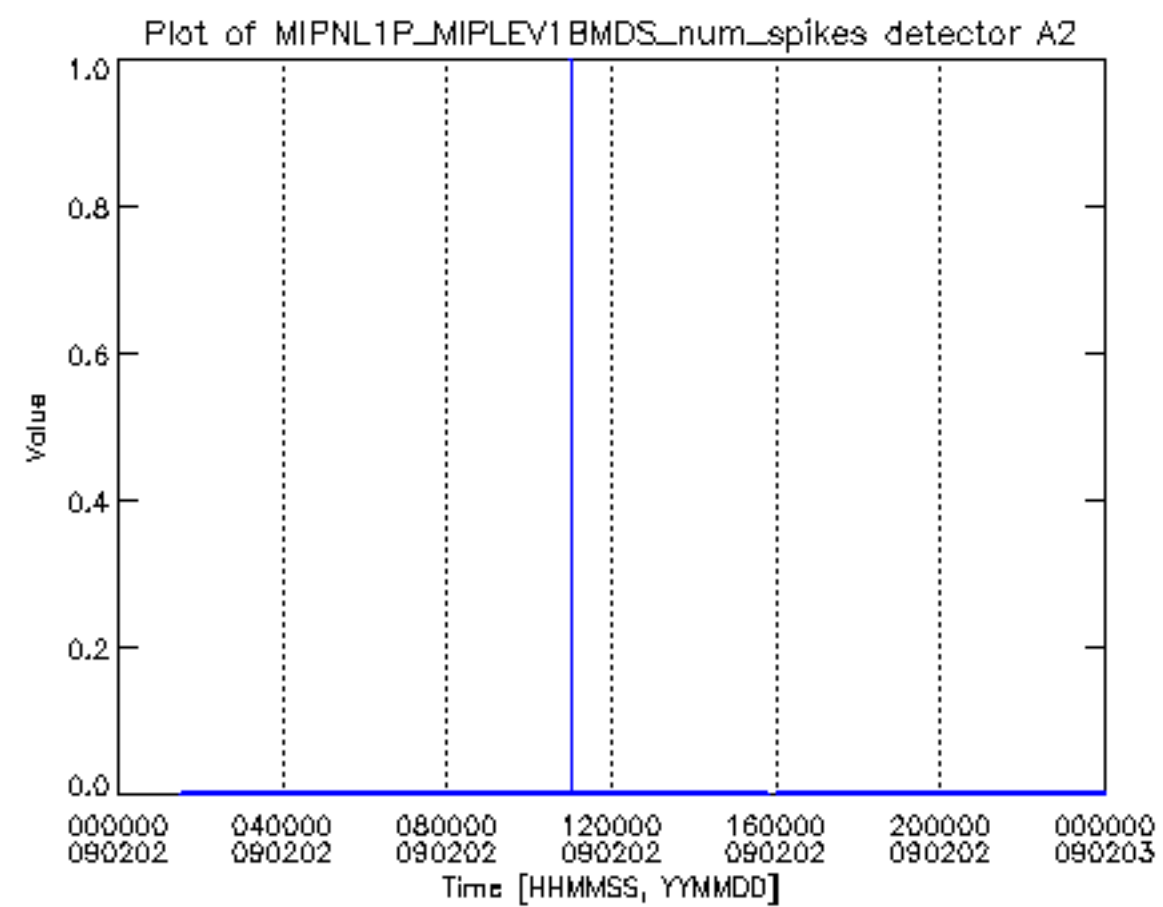
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag



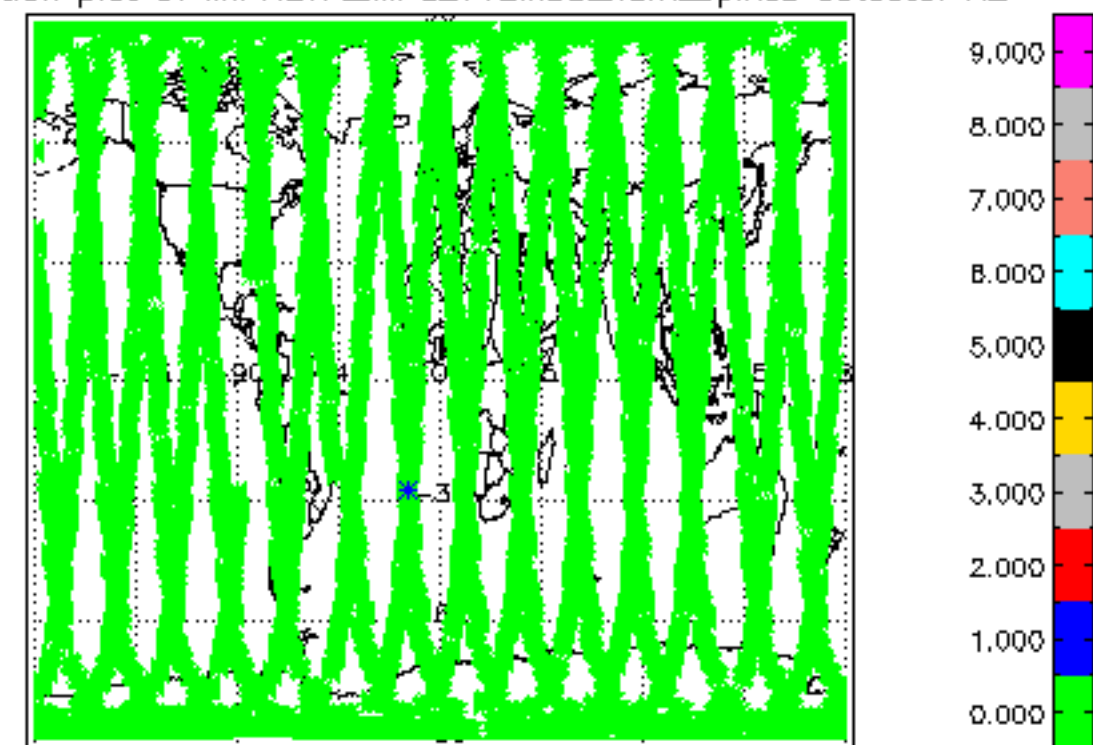


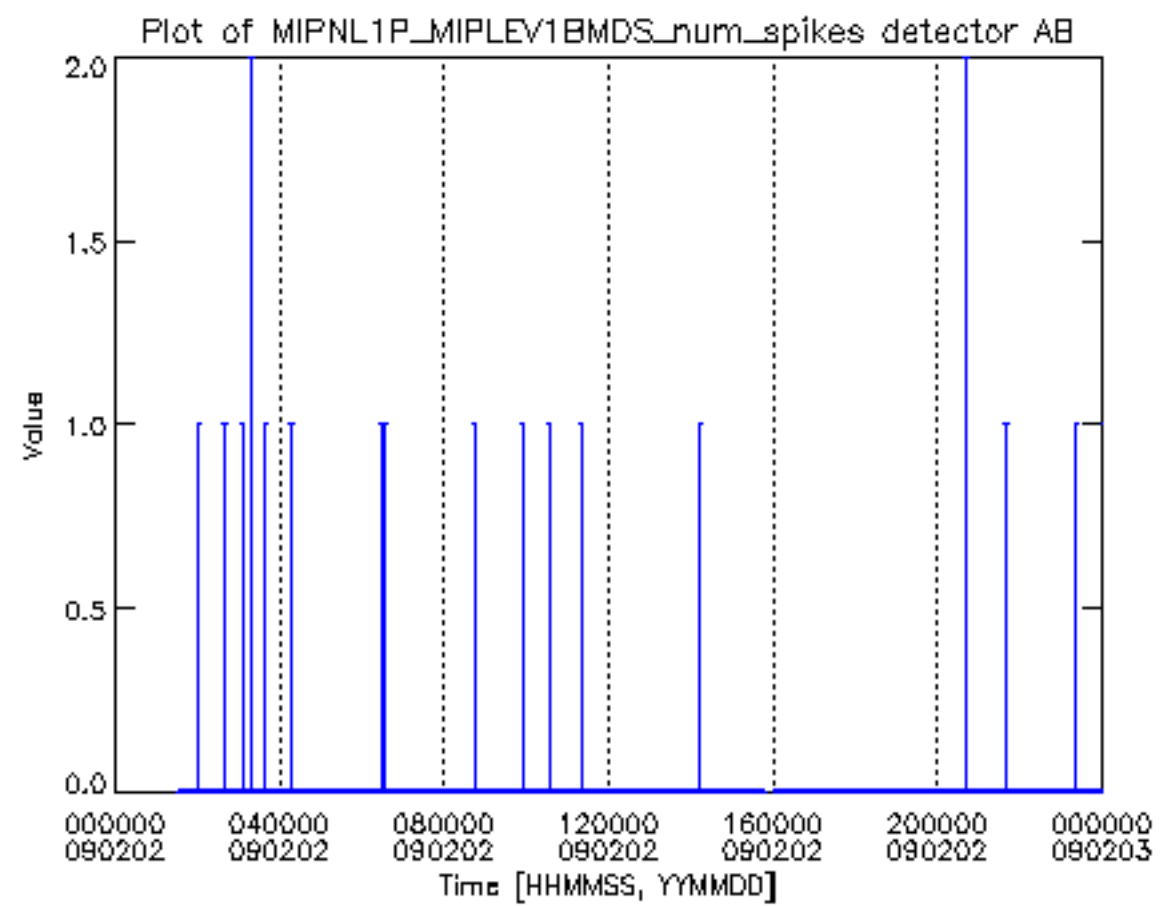
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1



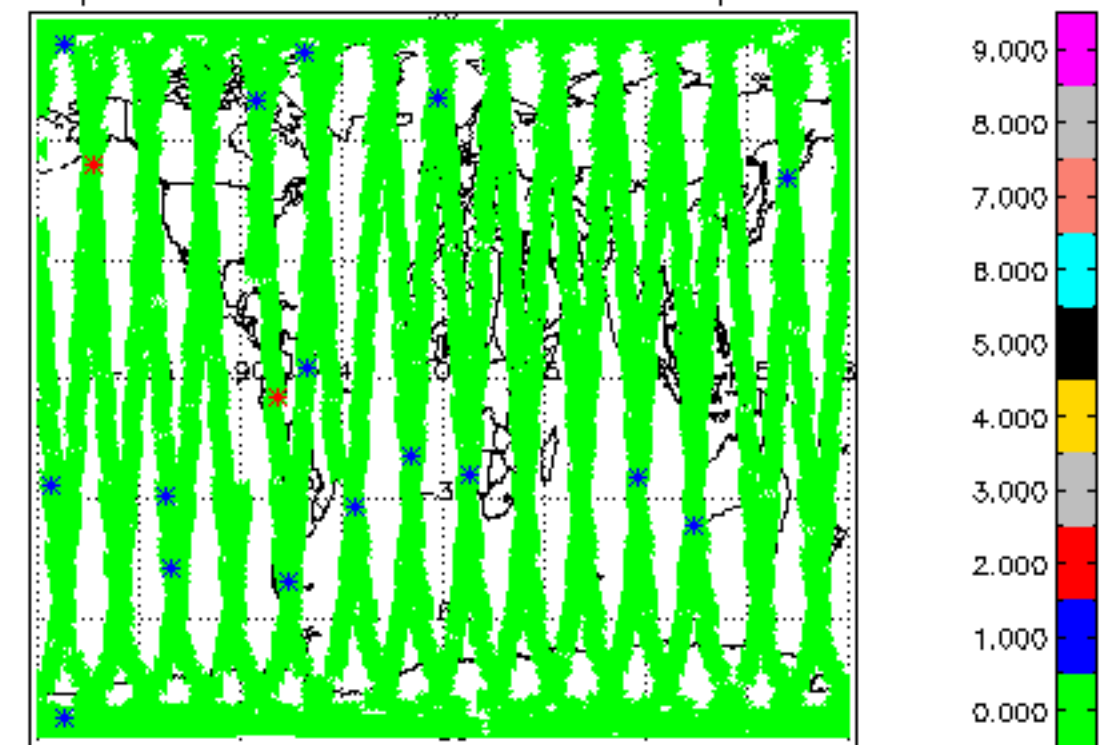


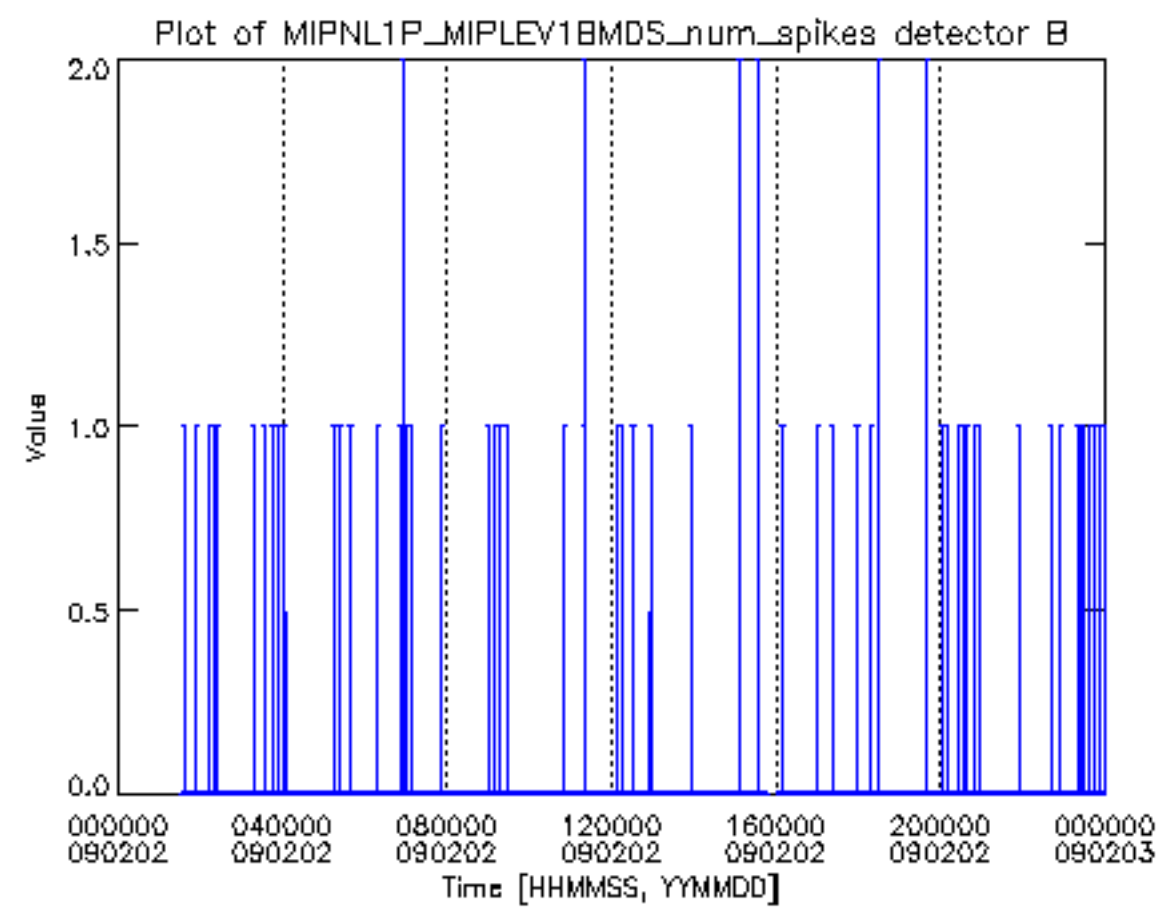
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2



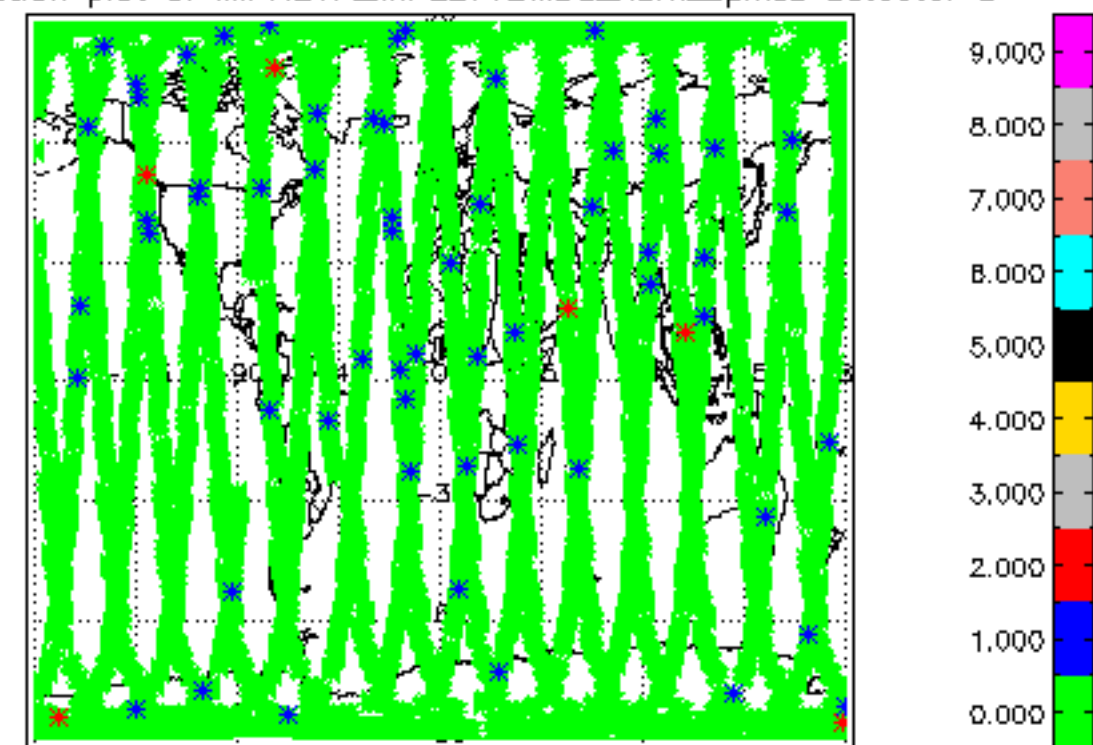


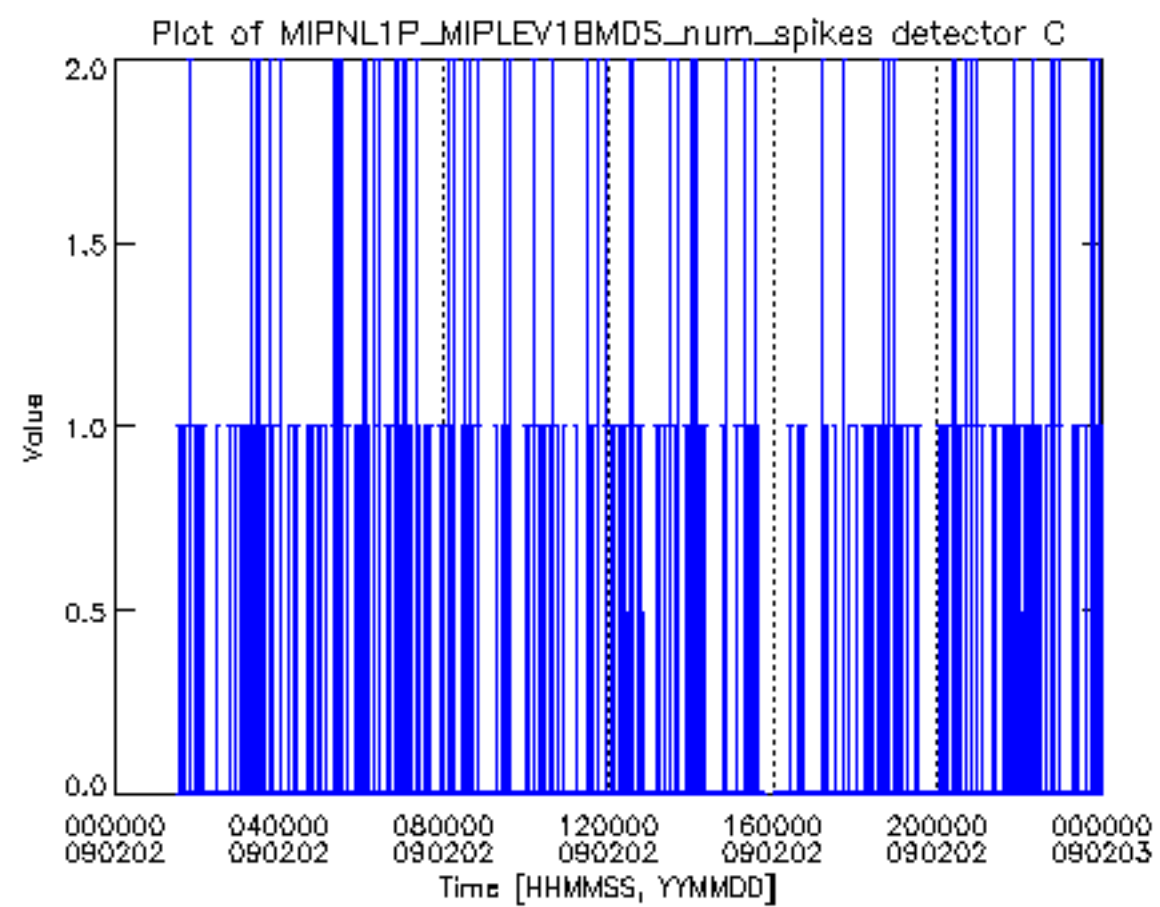
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB



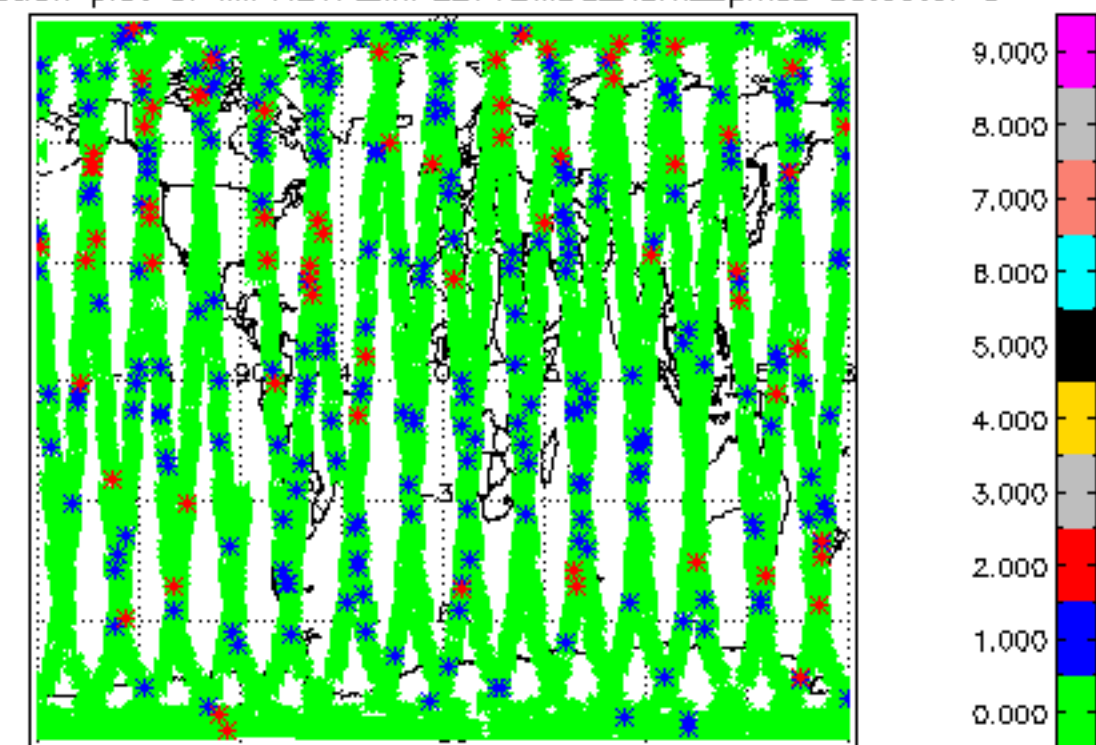


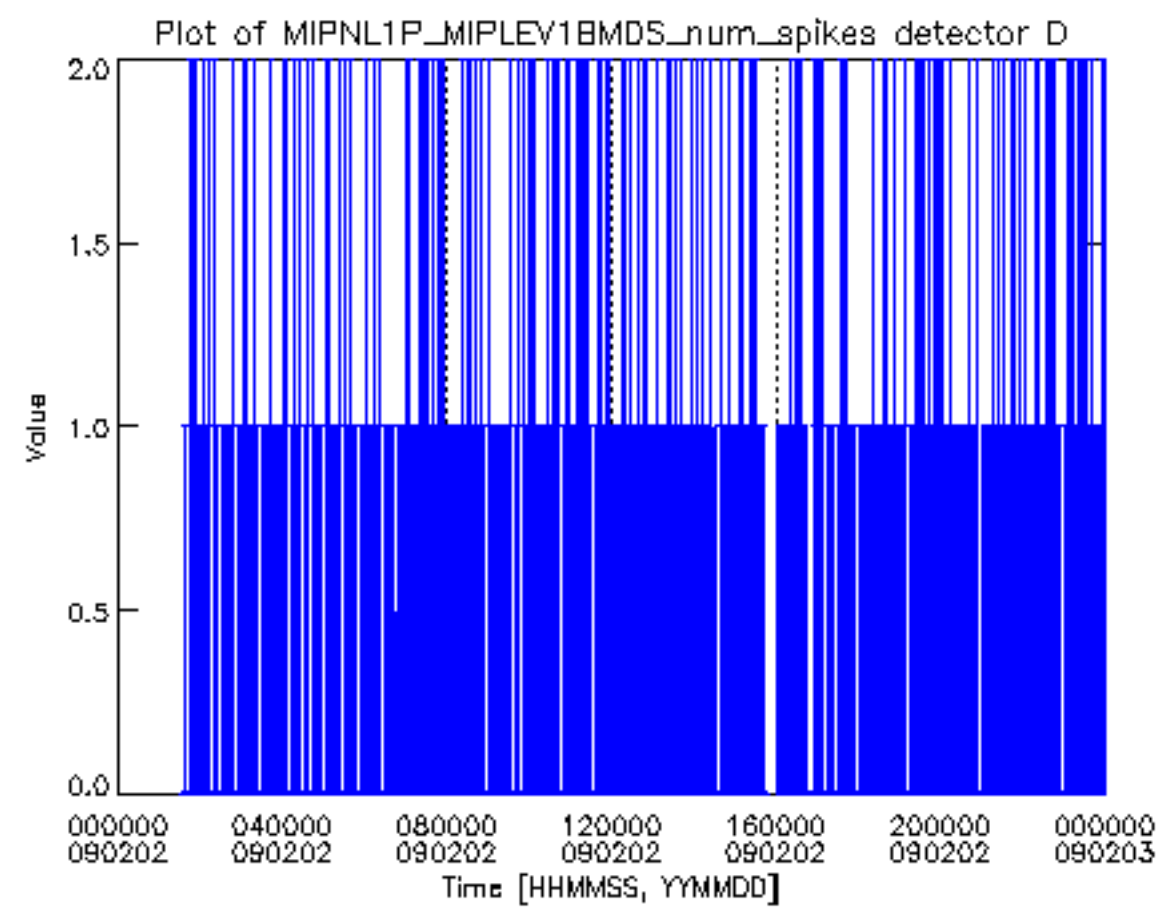
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B



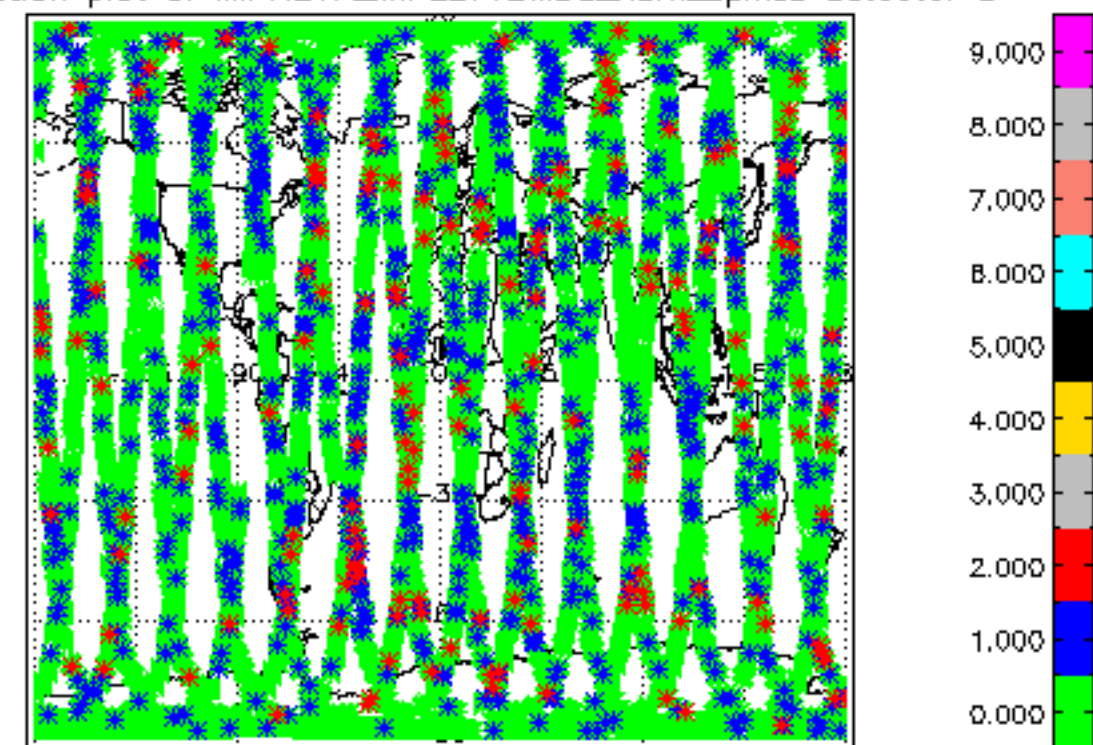


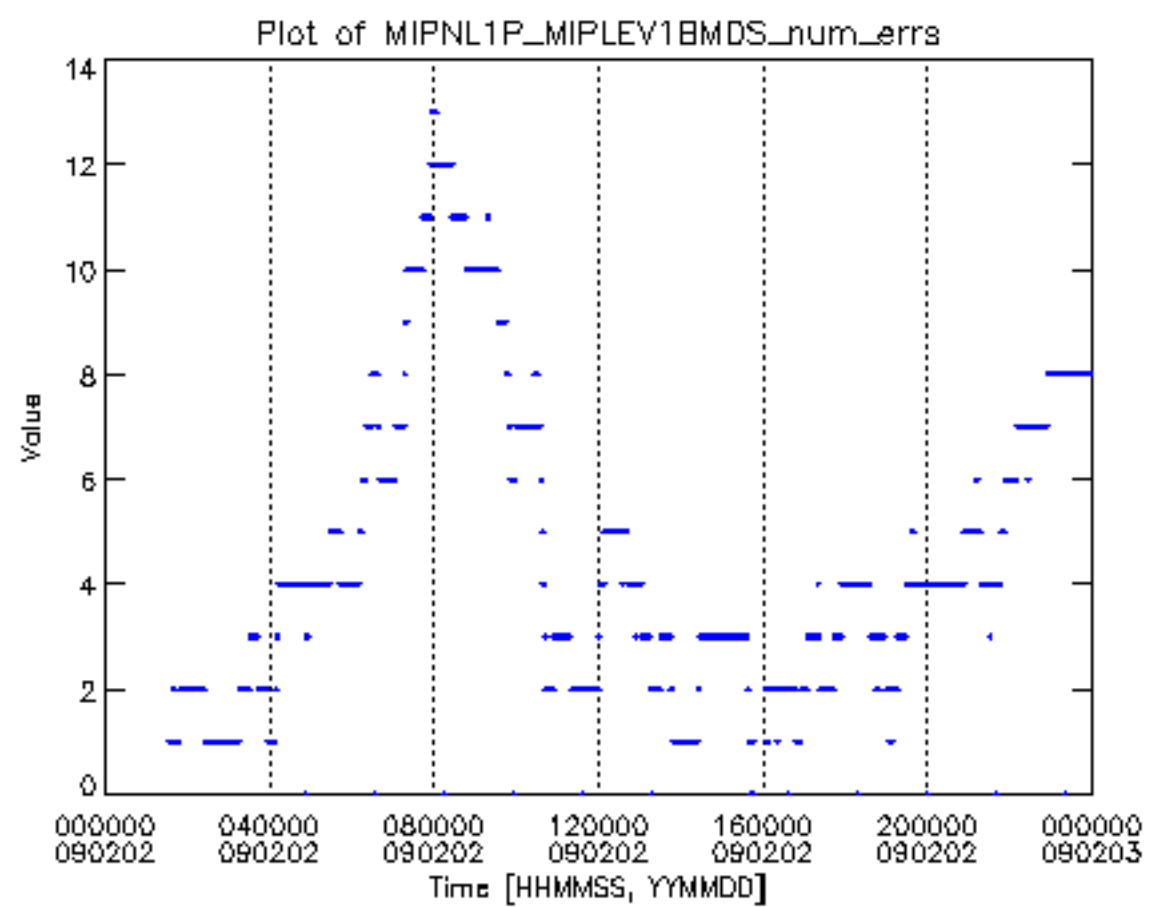
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C



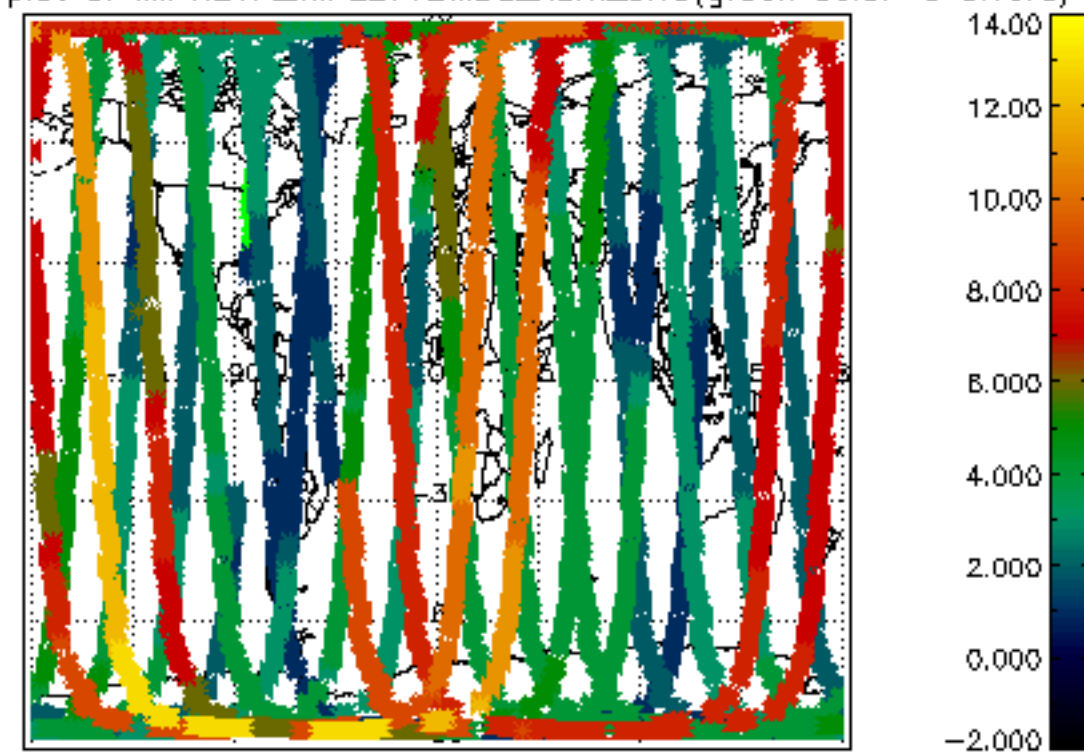


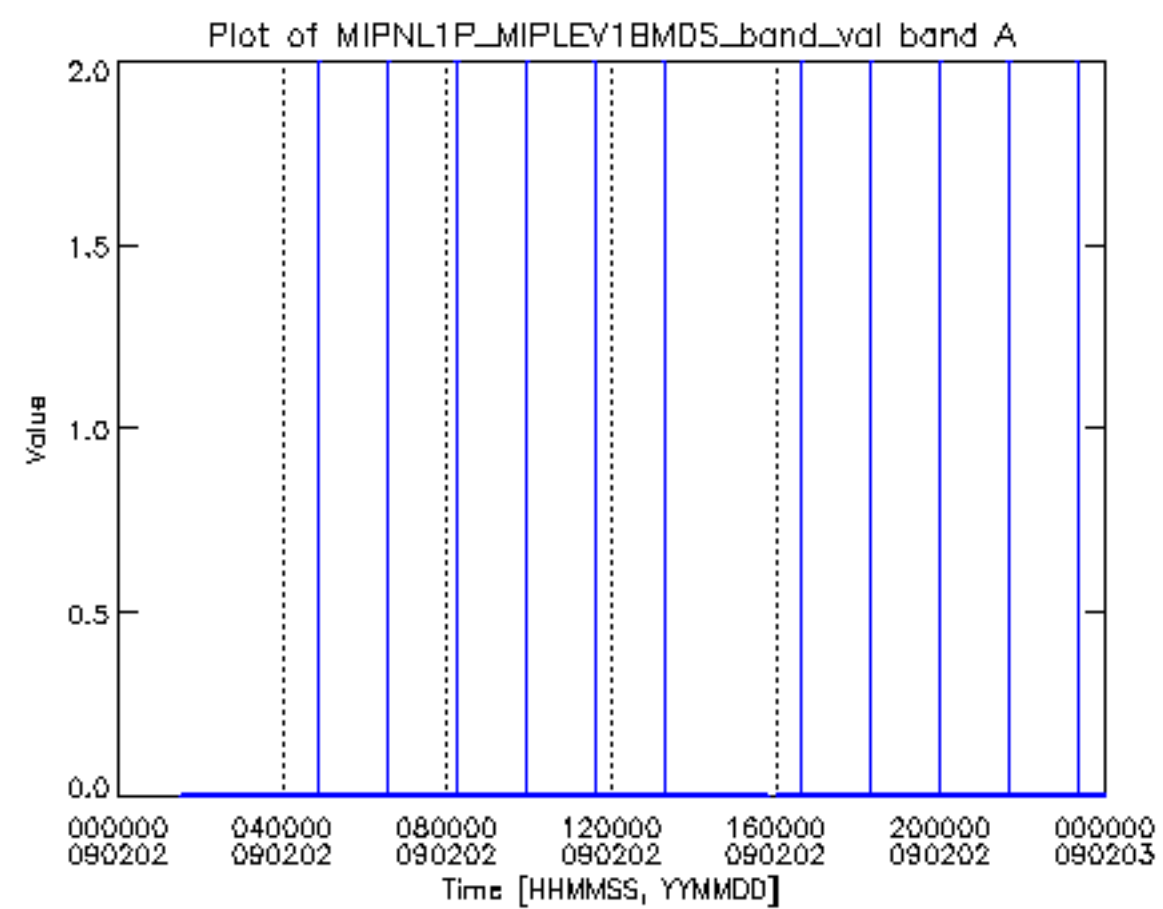
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D



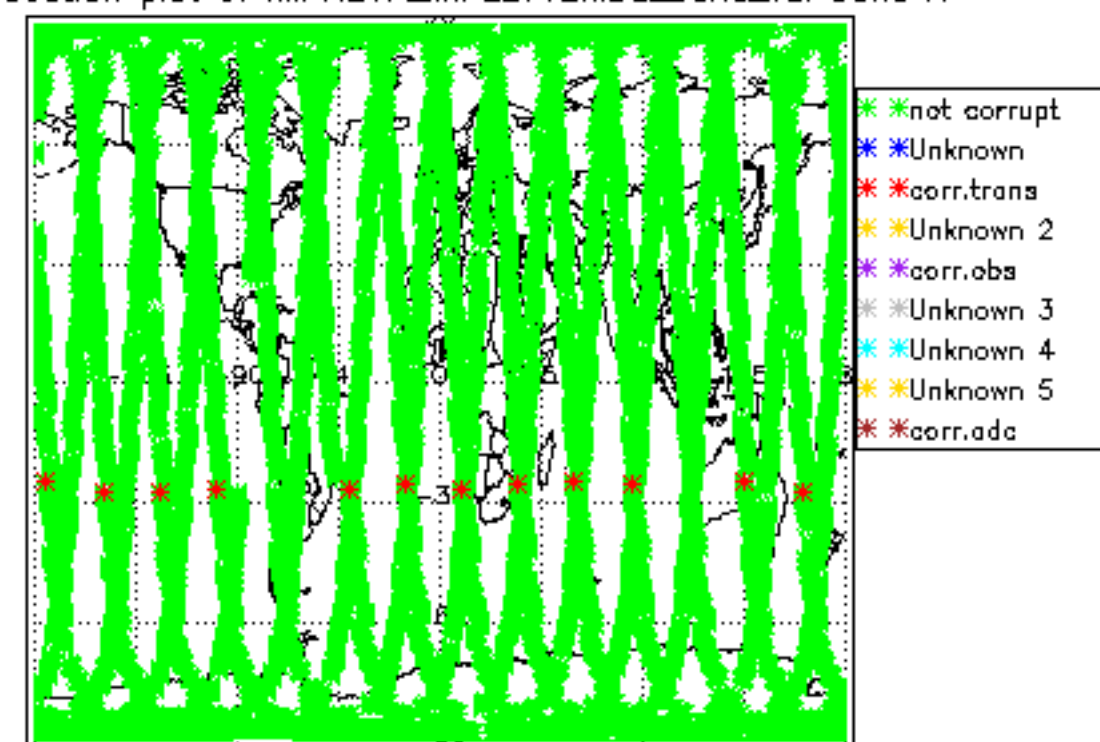


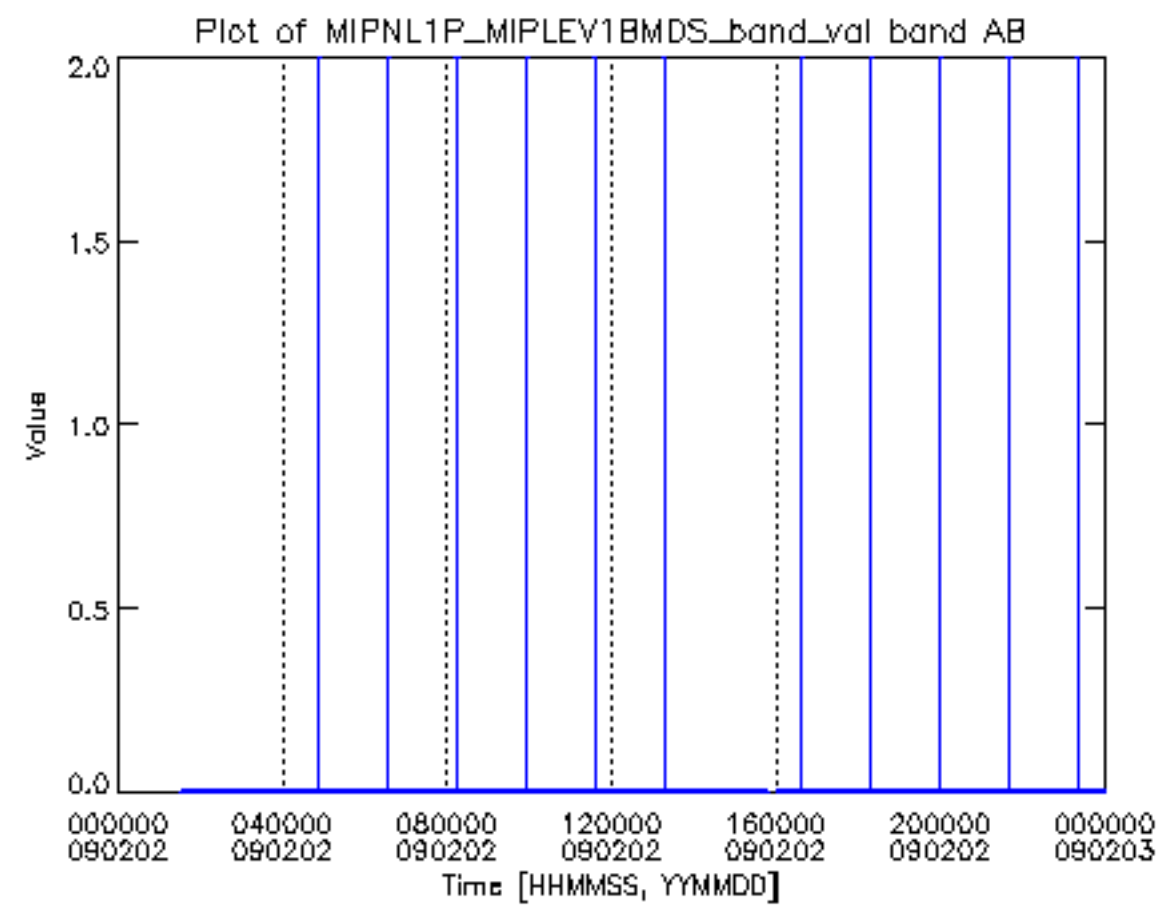
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs(green color=0 errors)



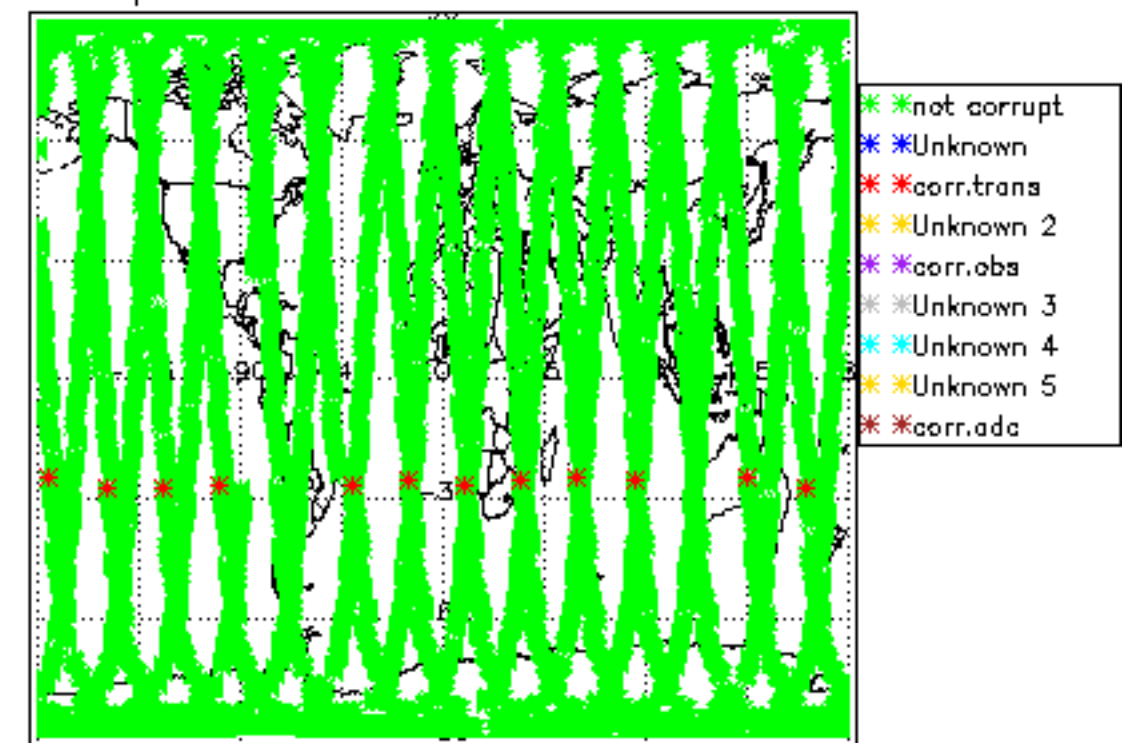


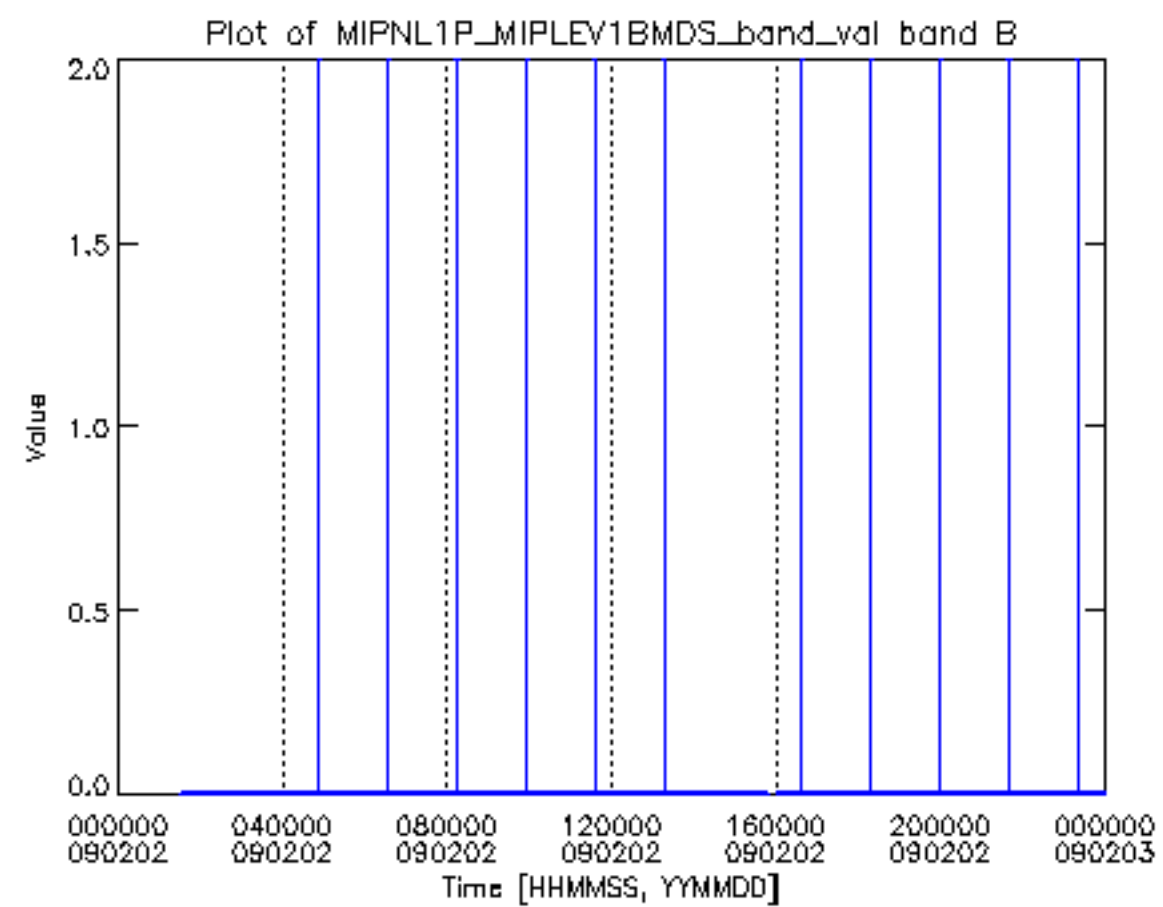
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A



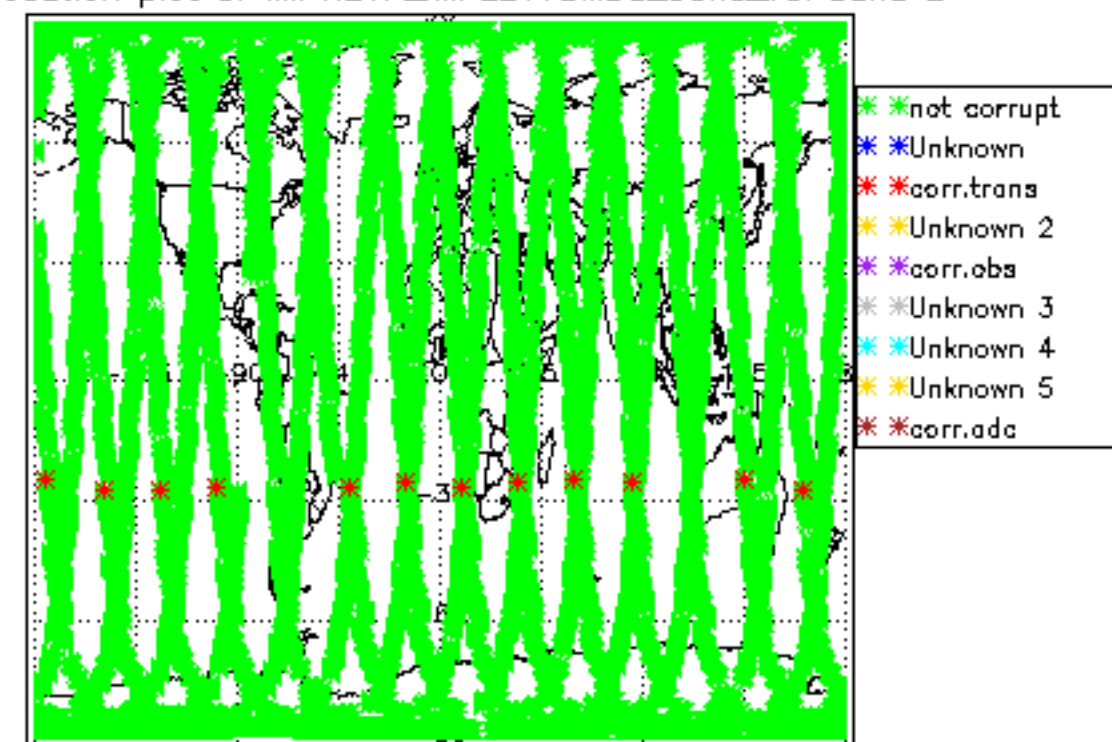


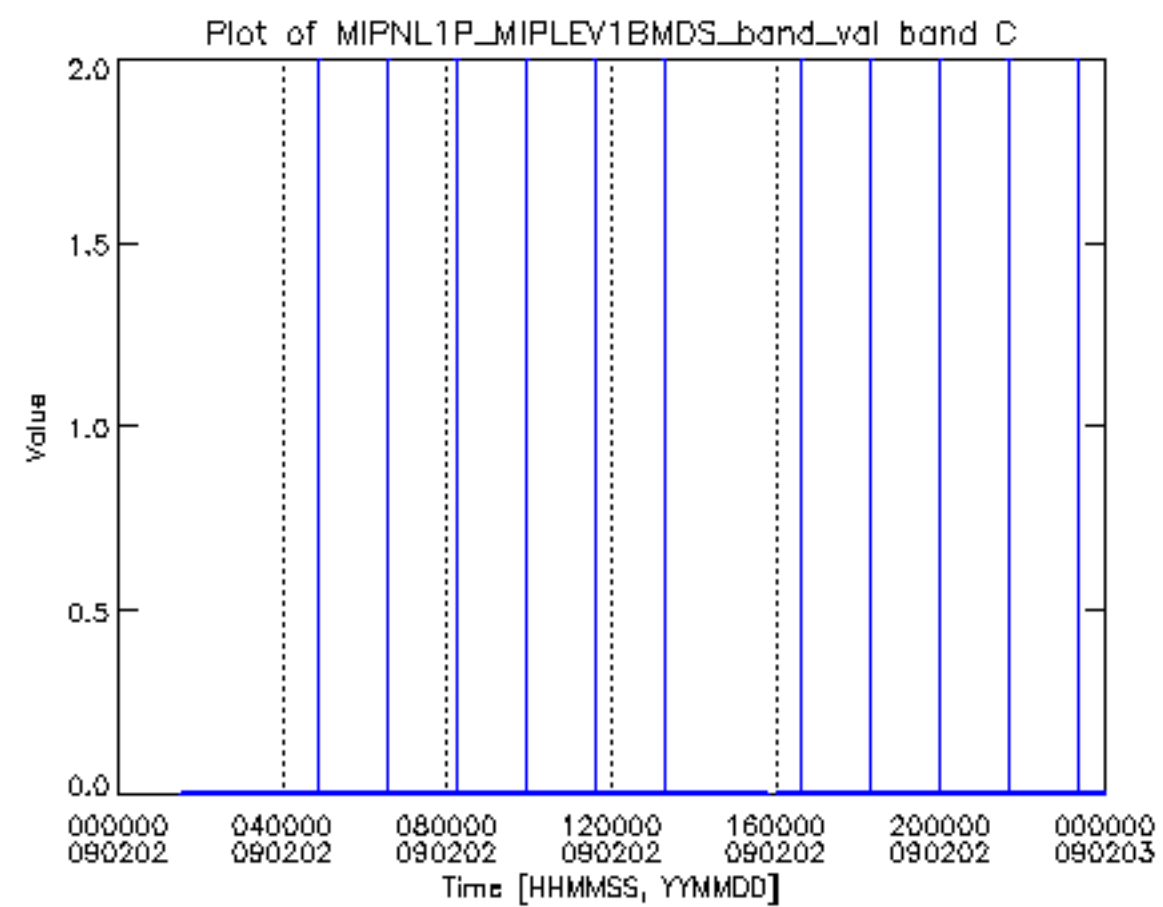
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



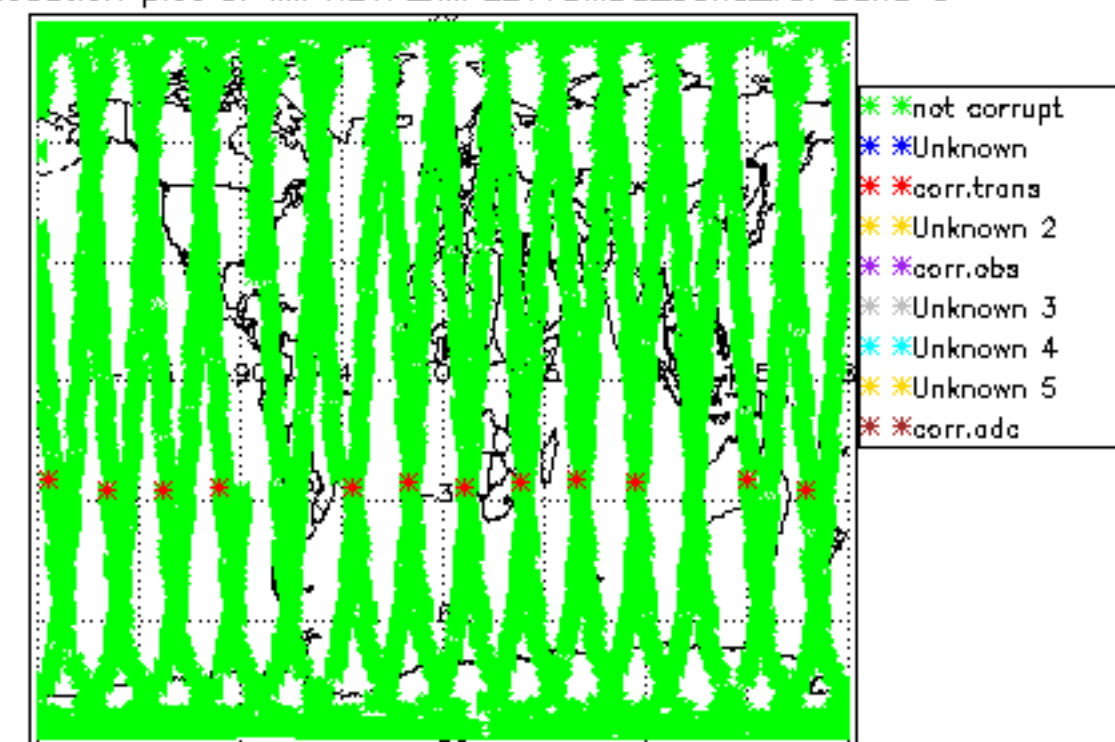


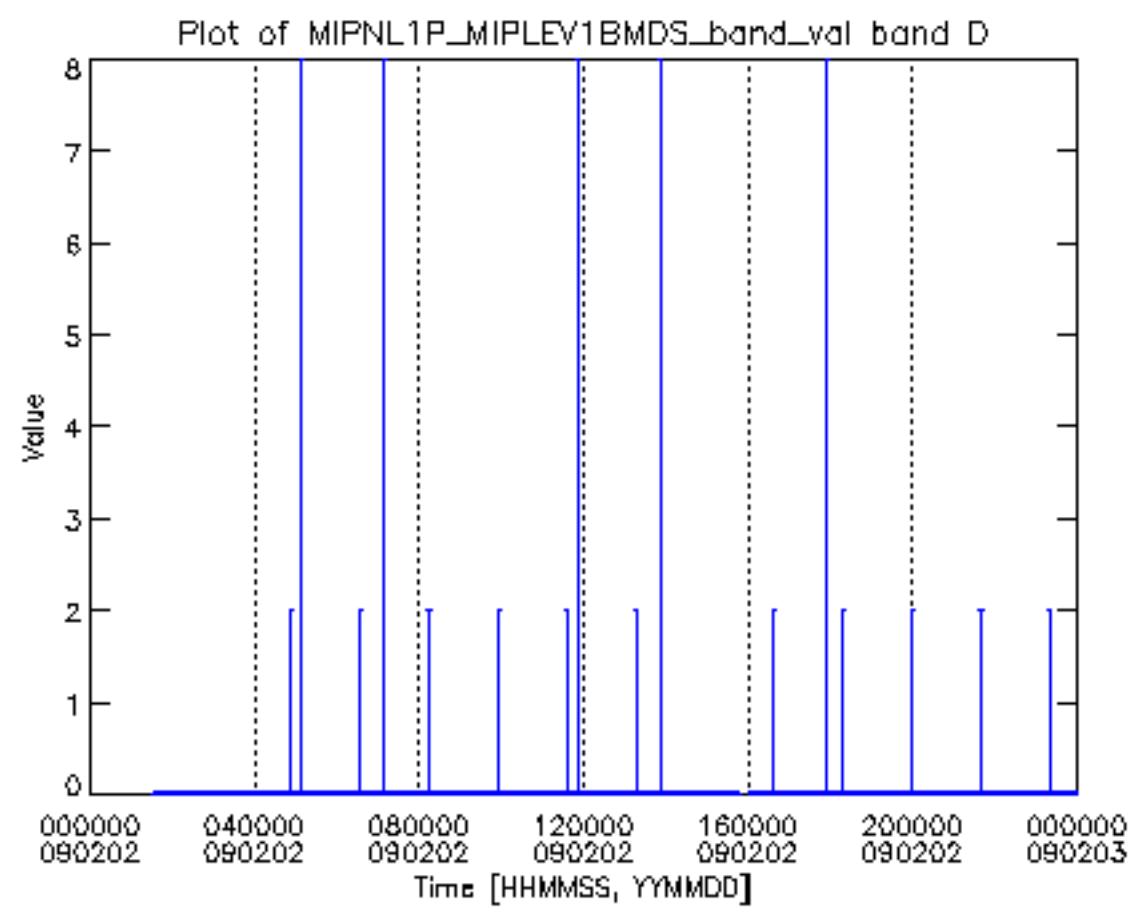
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B



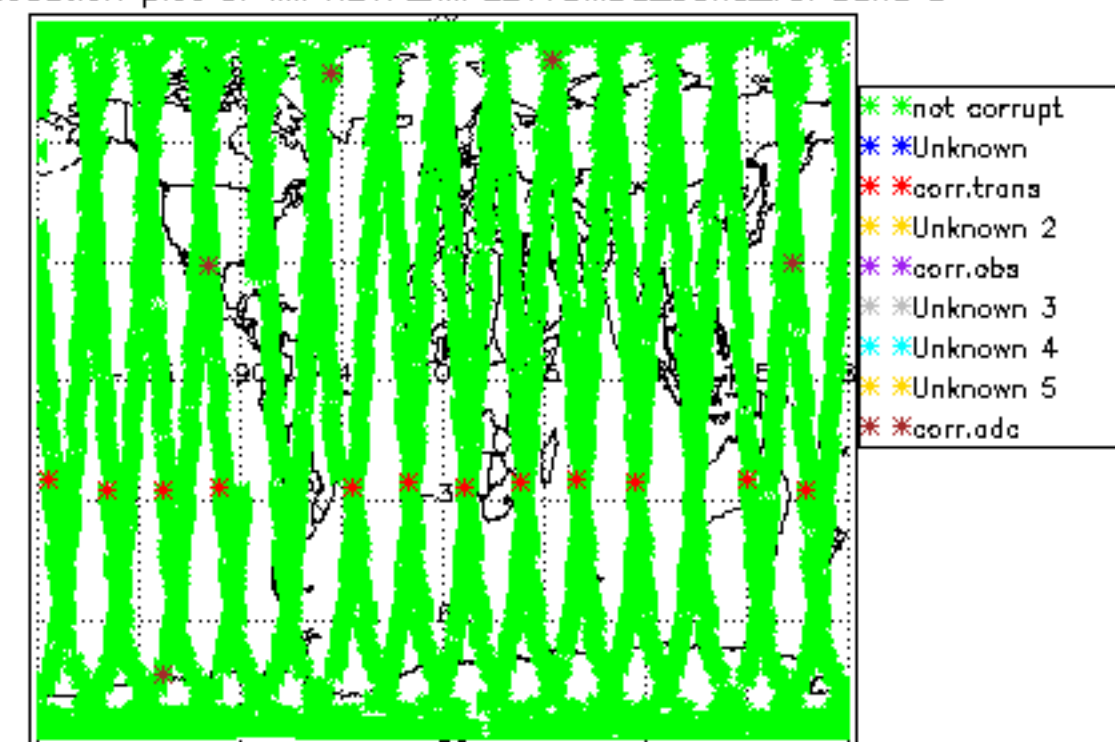


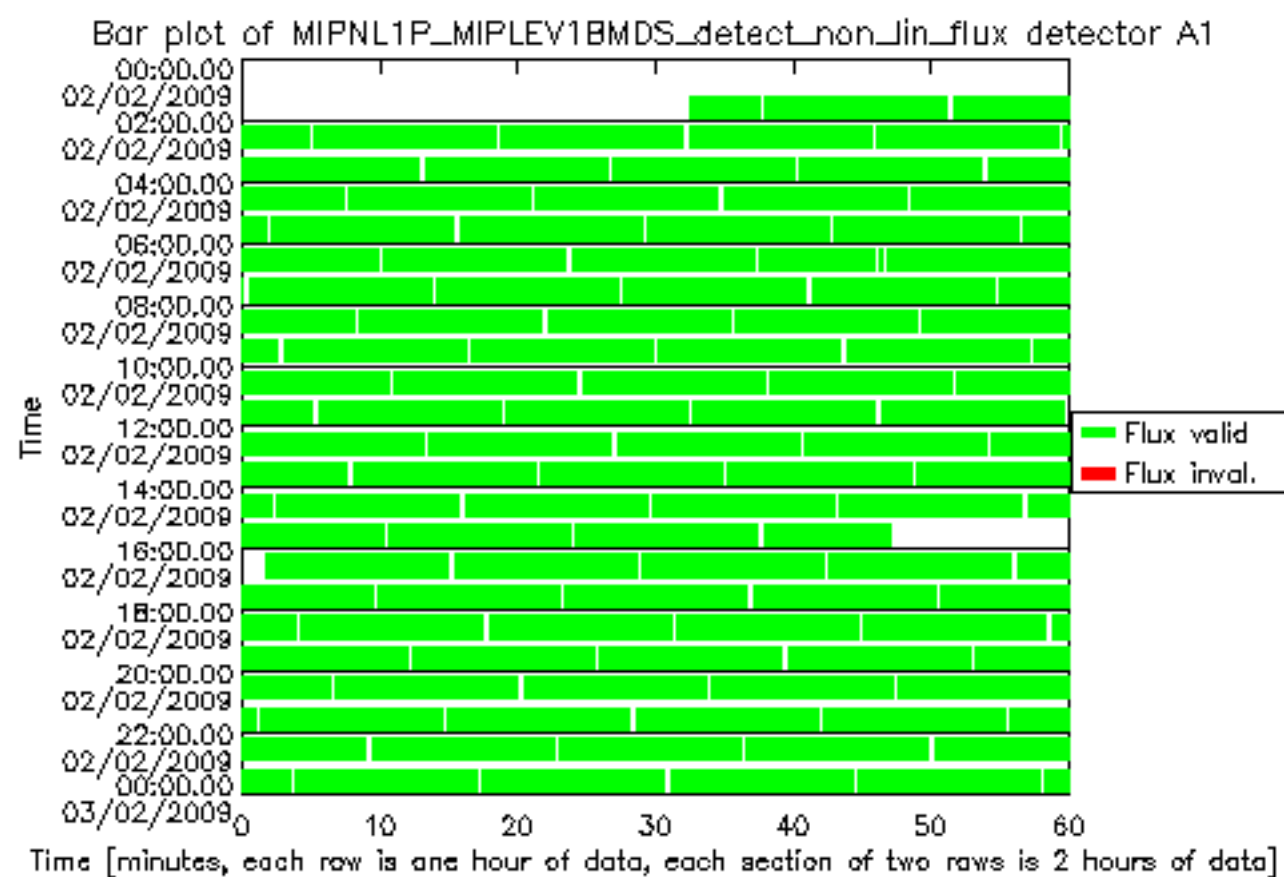
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C



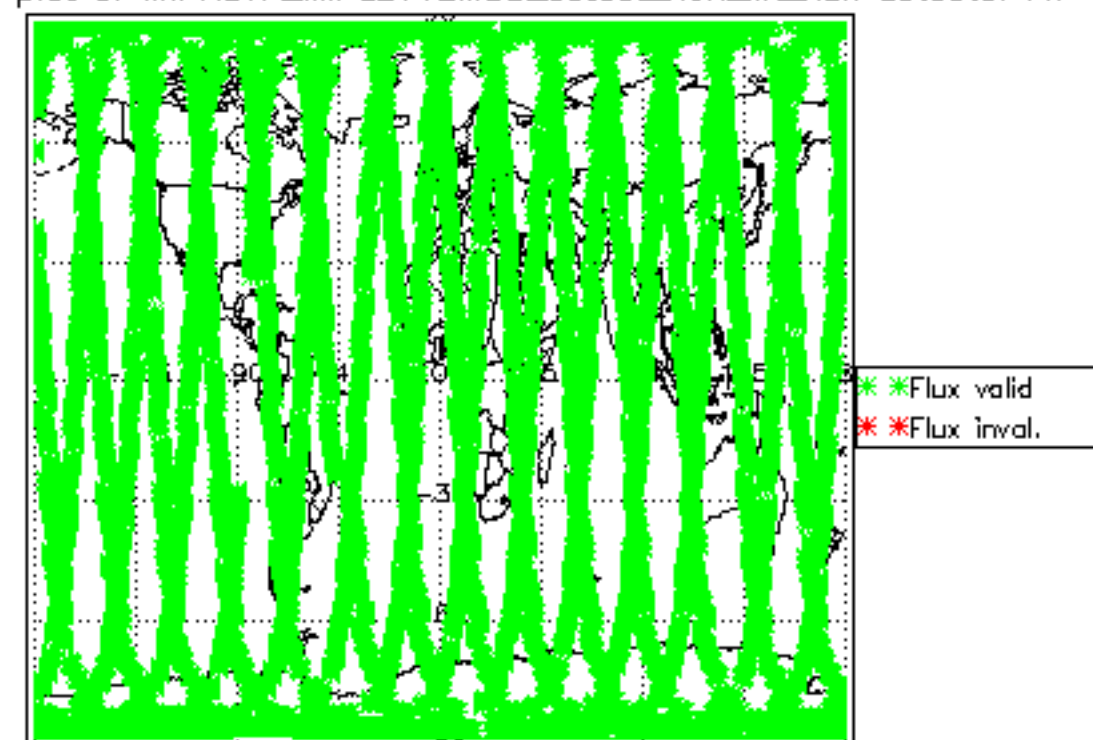


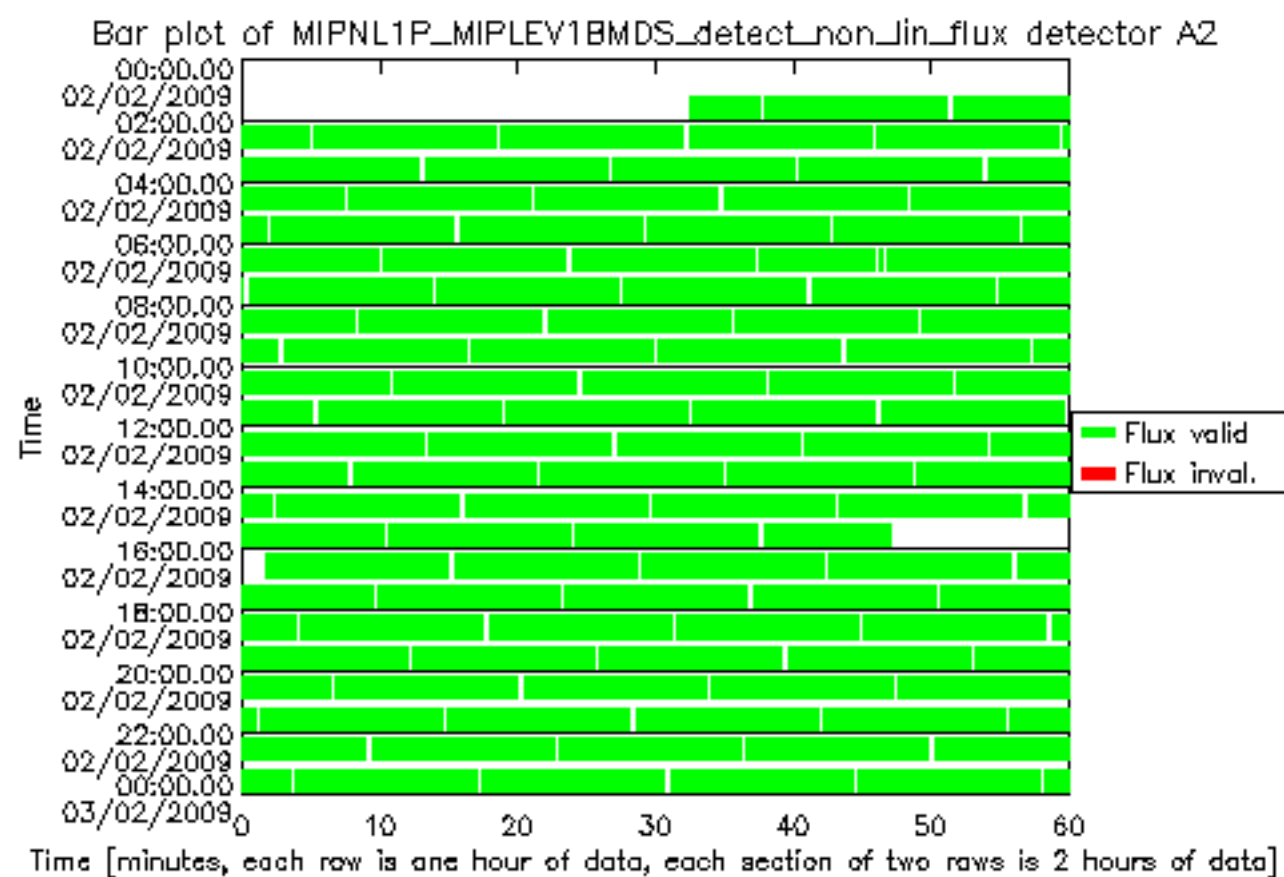
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D



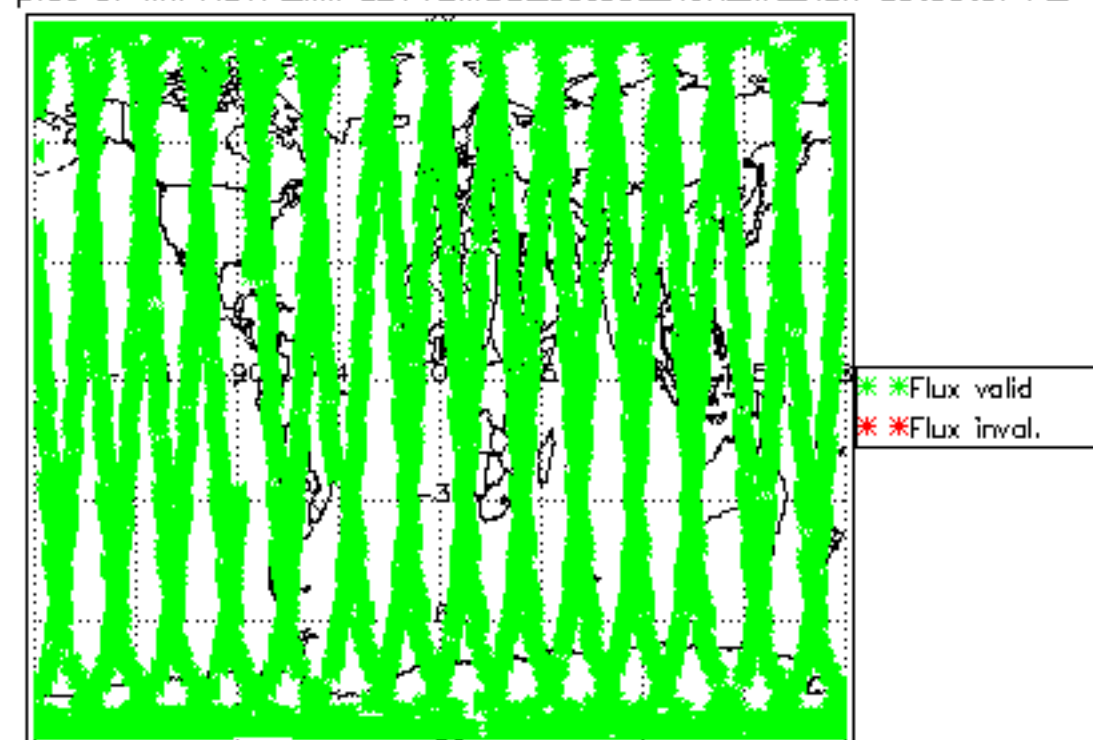


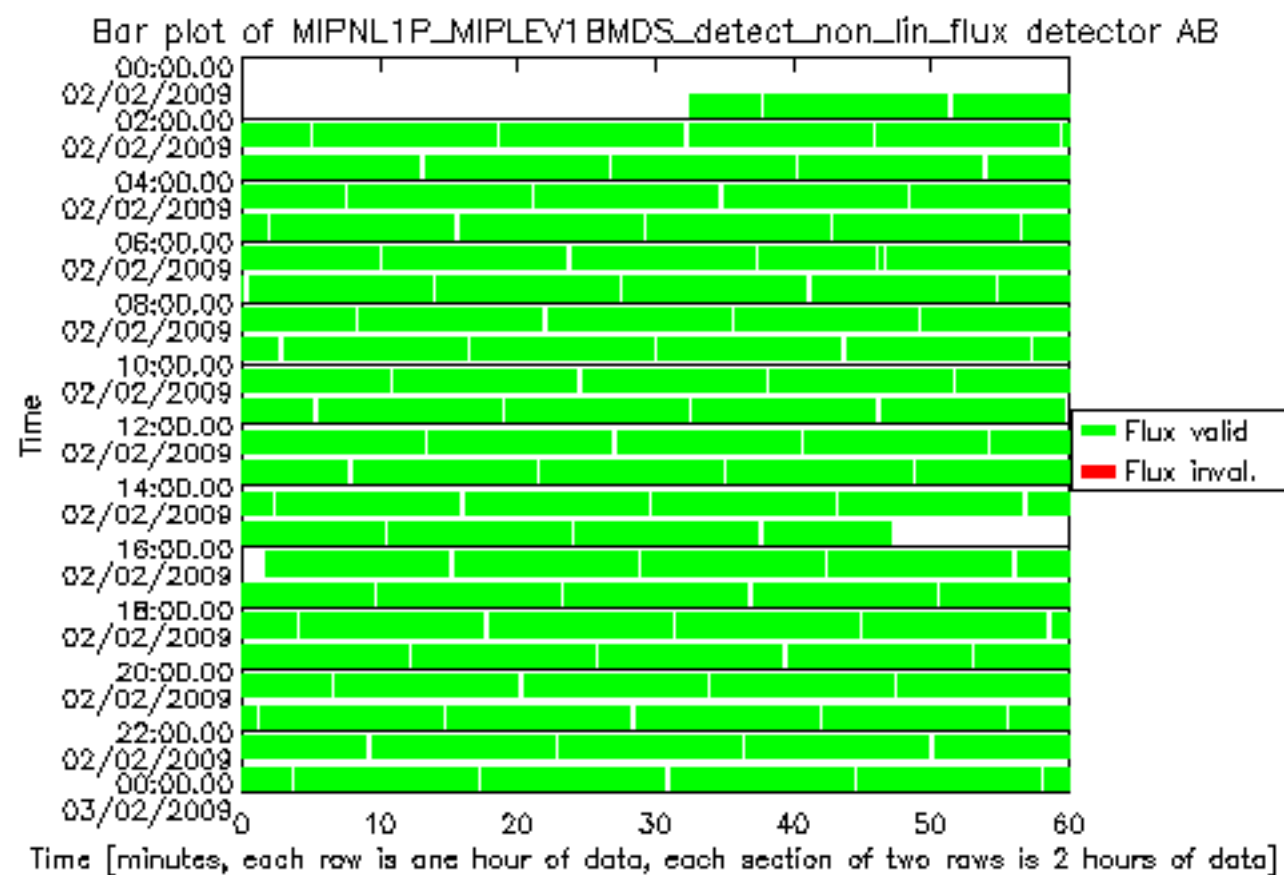
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1



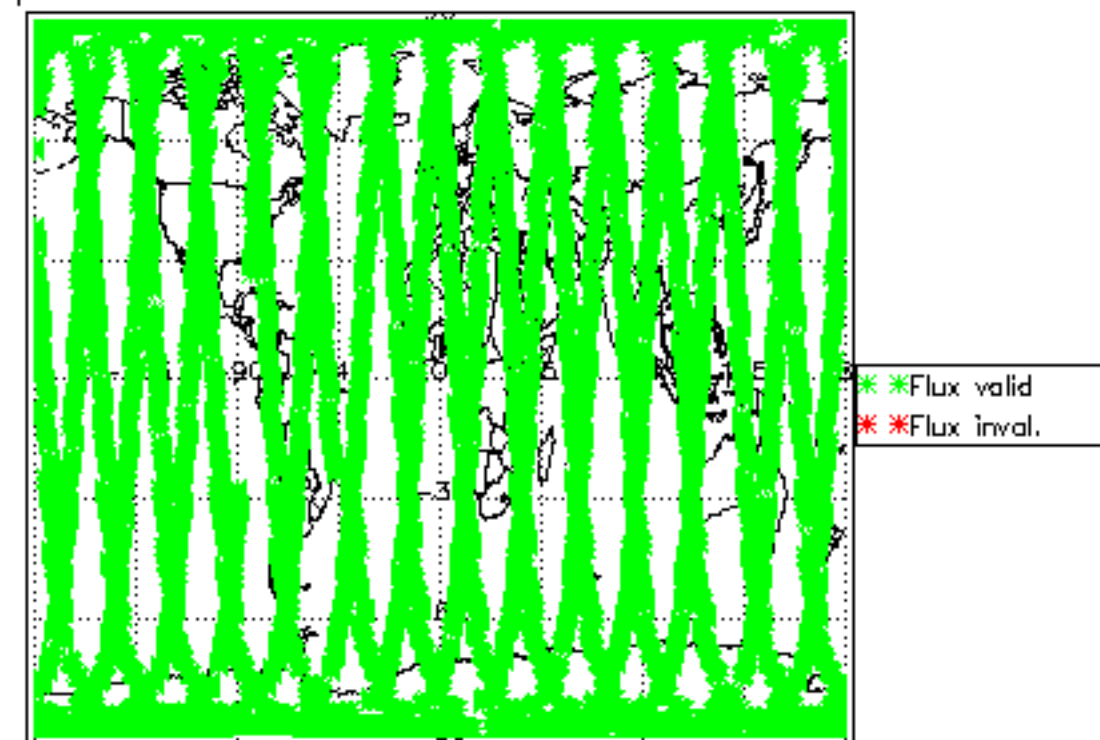


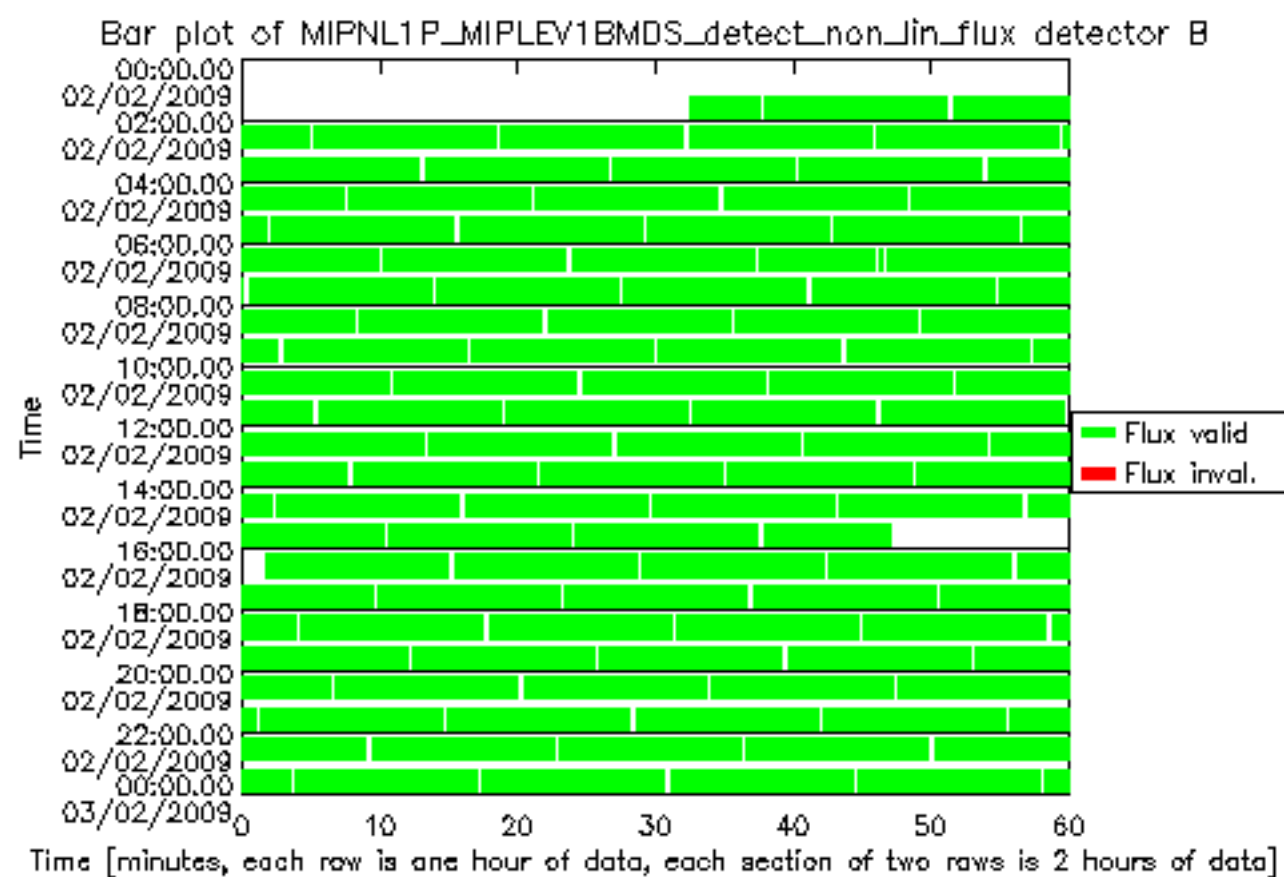
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2



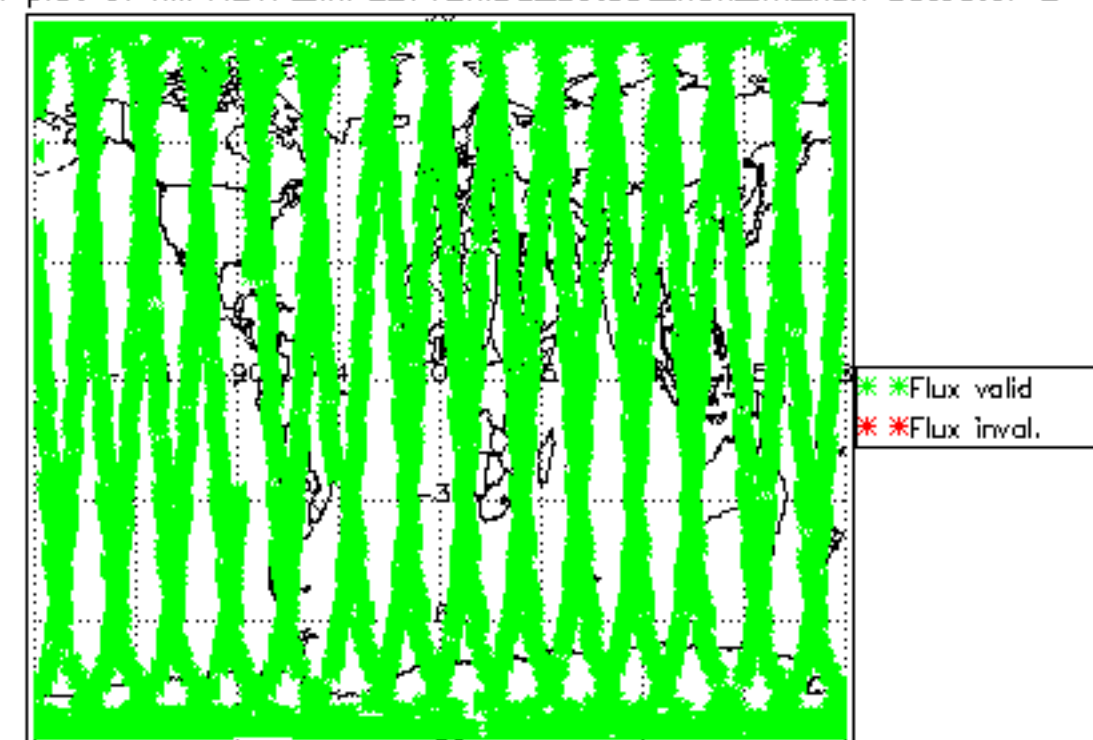


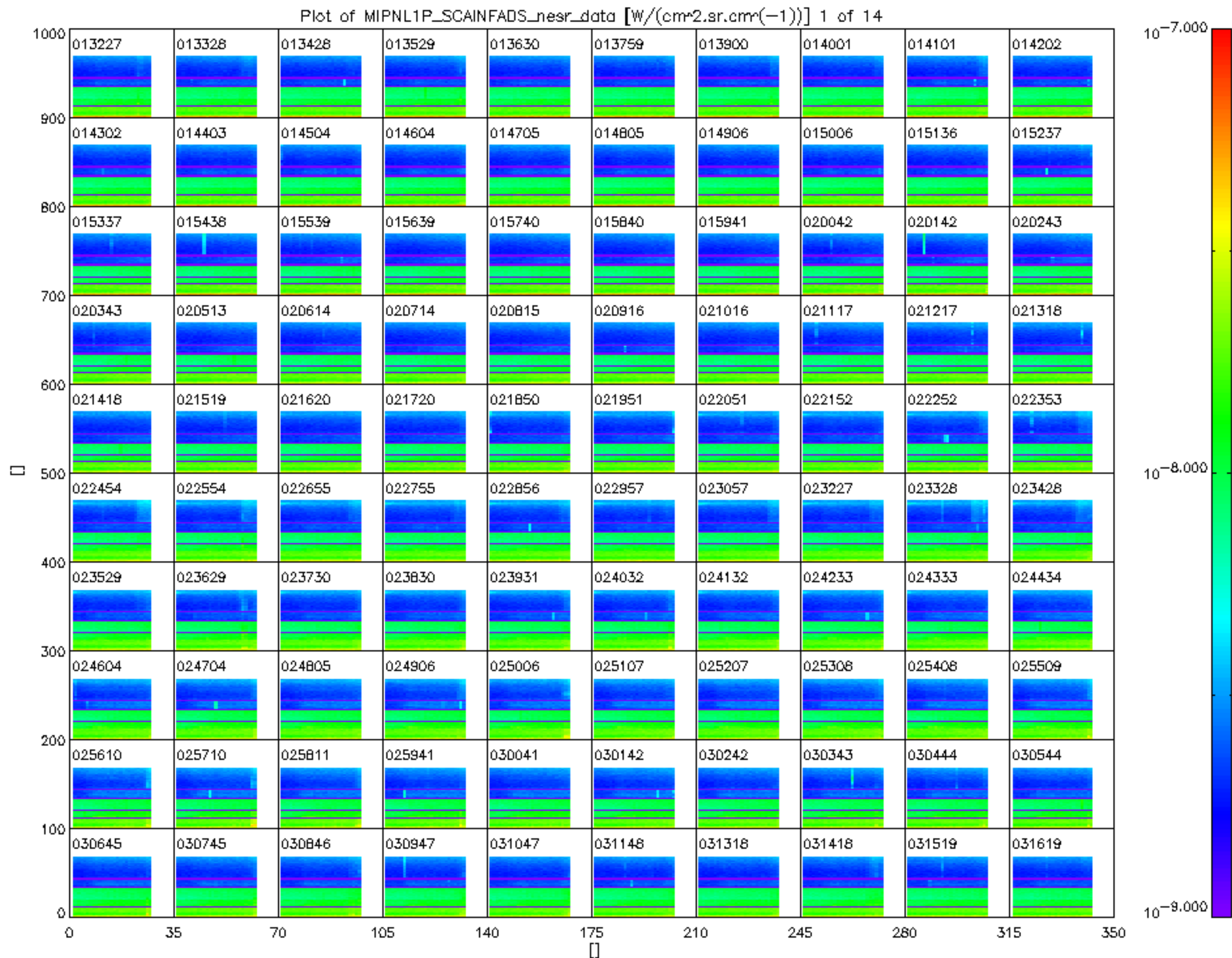
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB

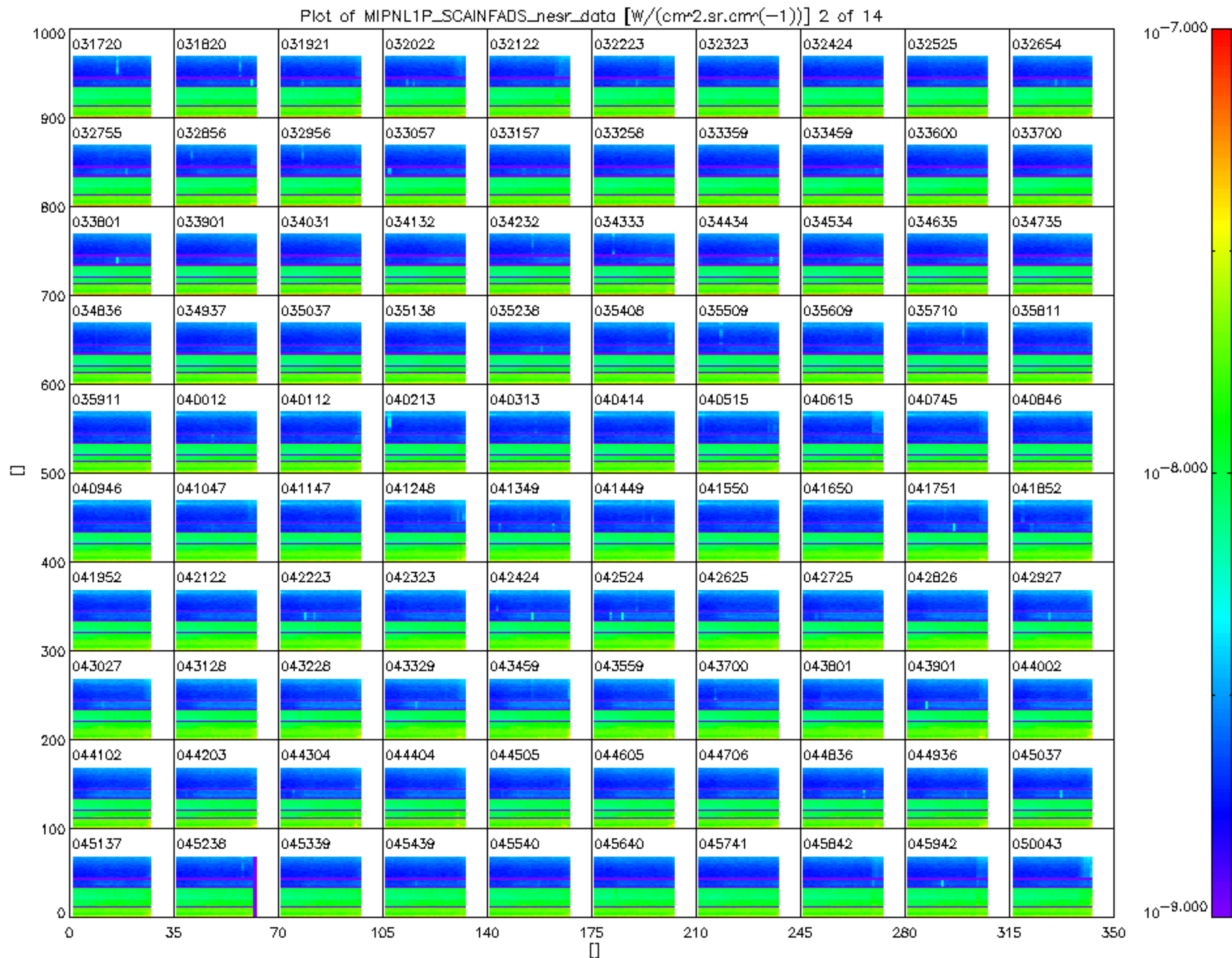




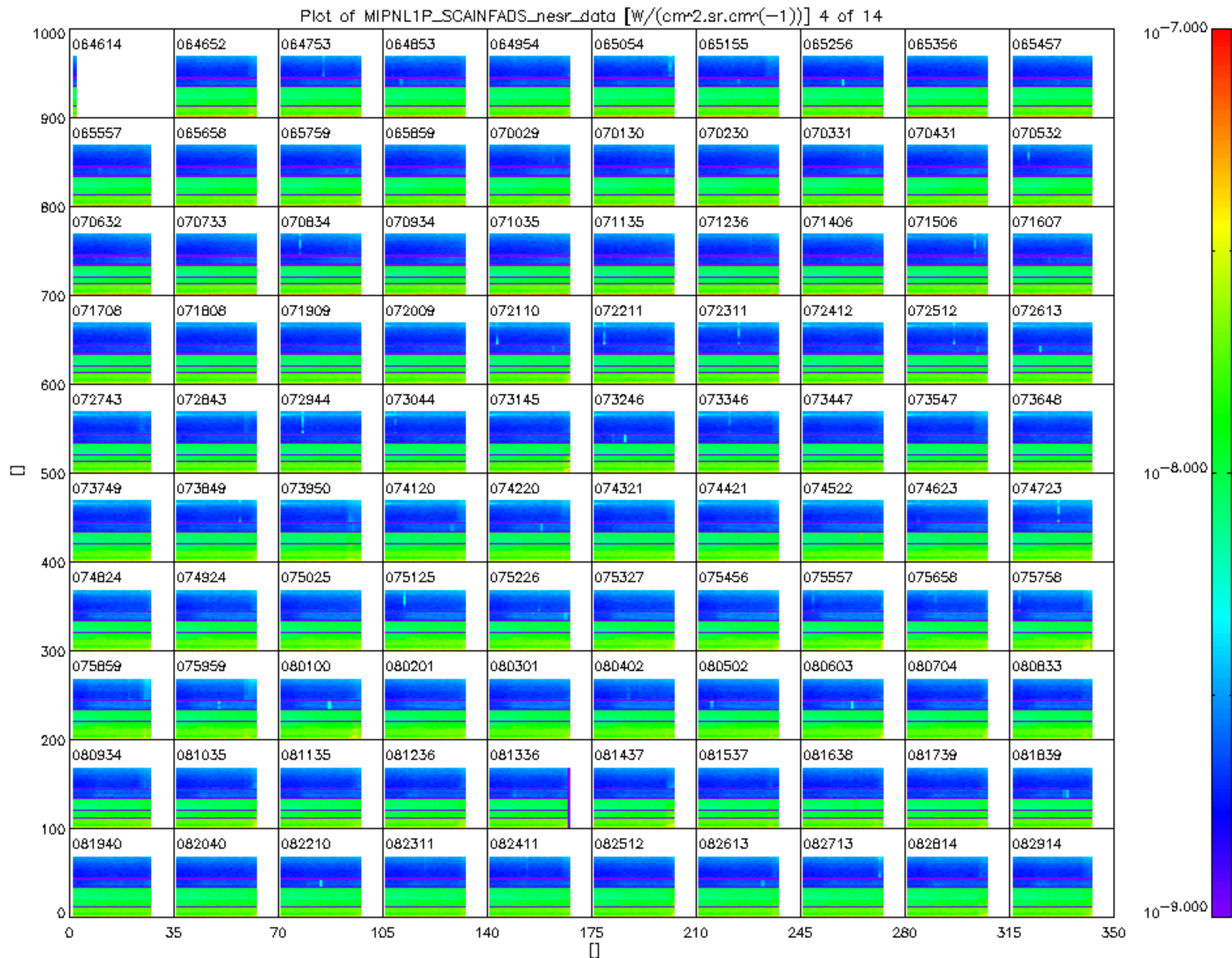
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B

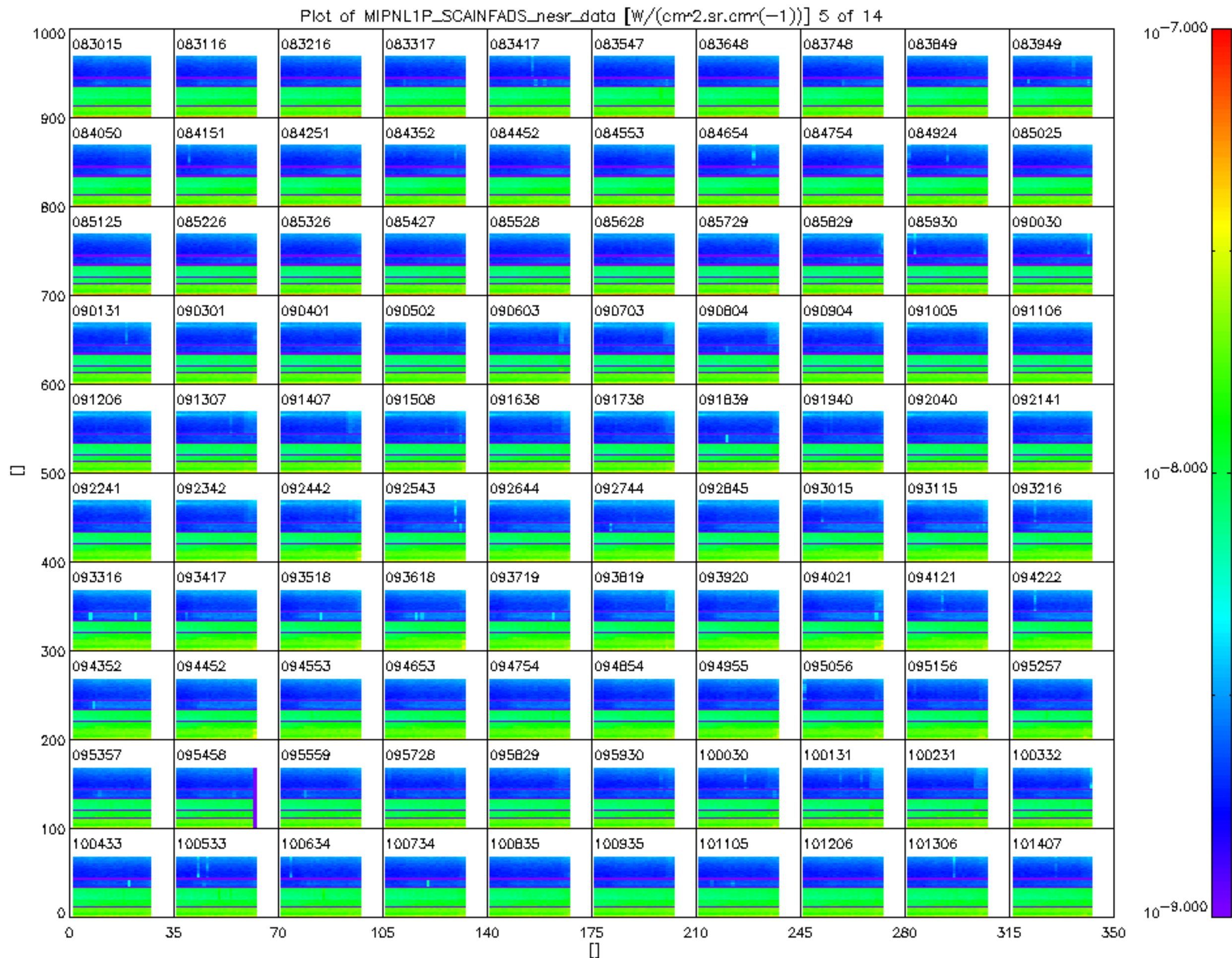




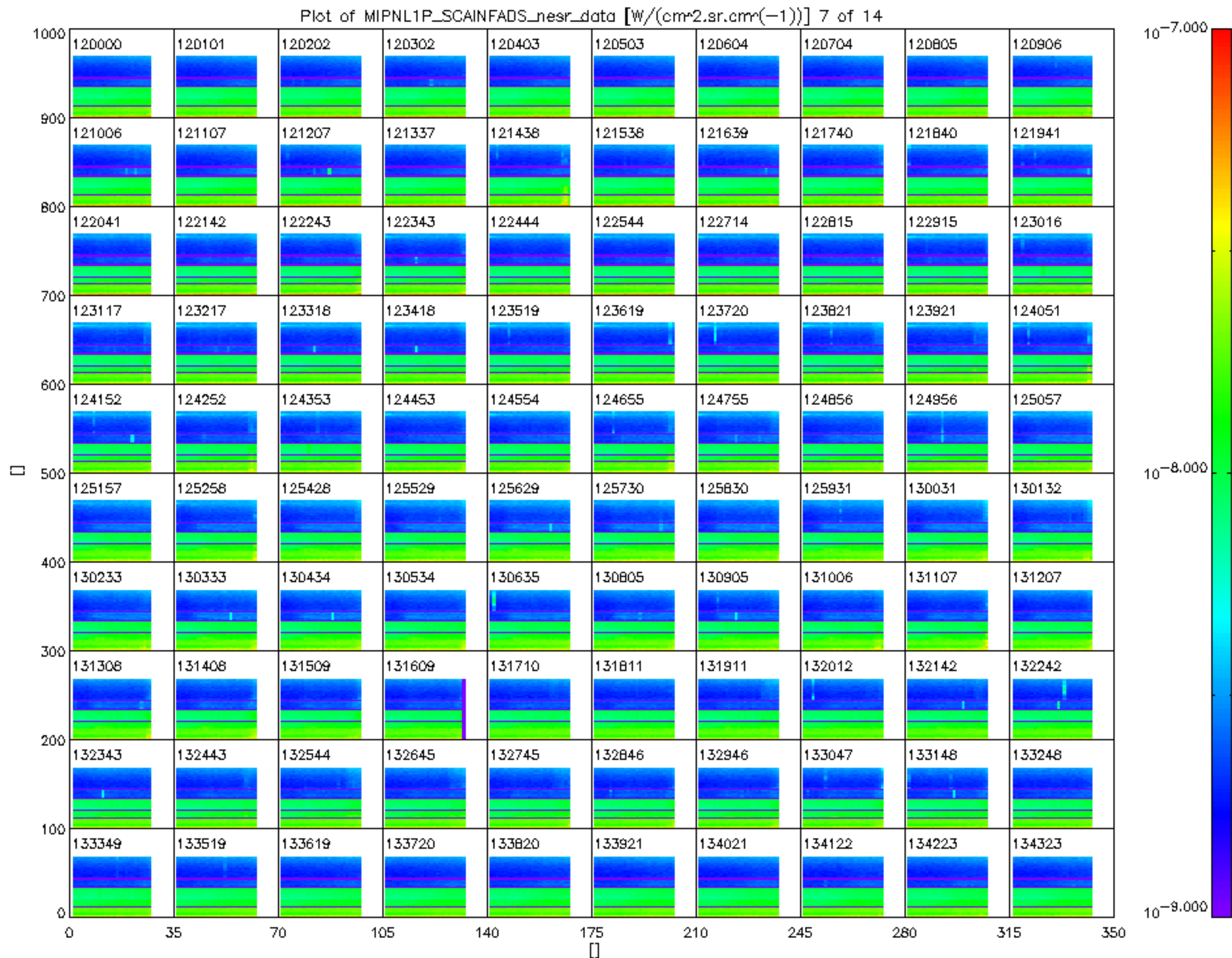


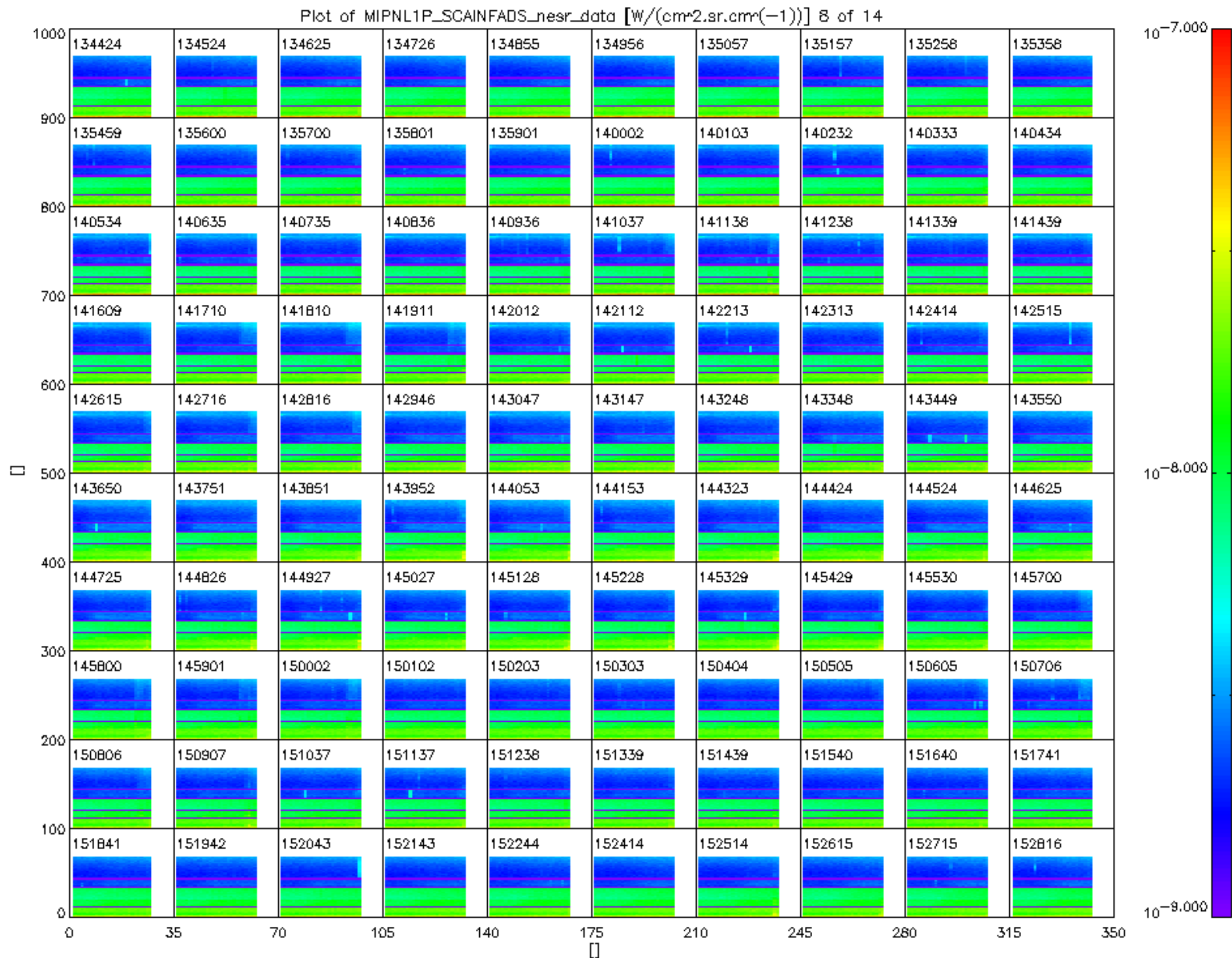




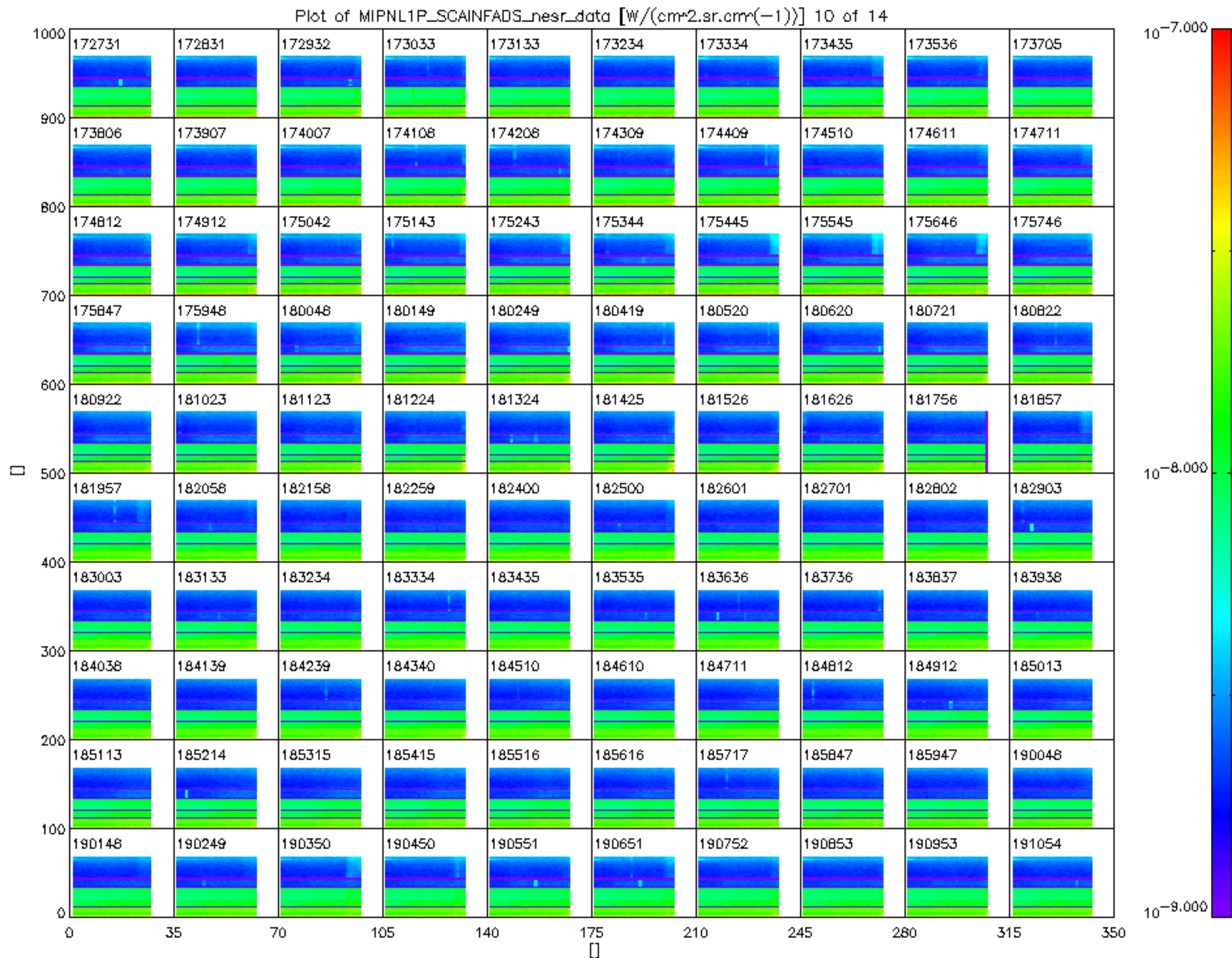


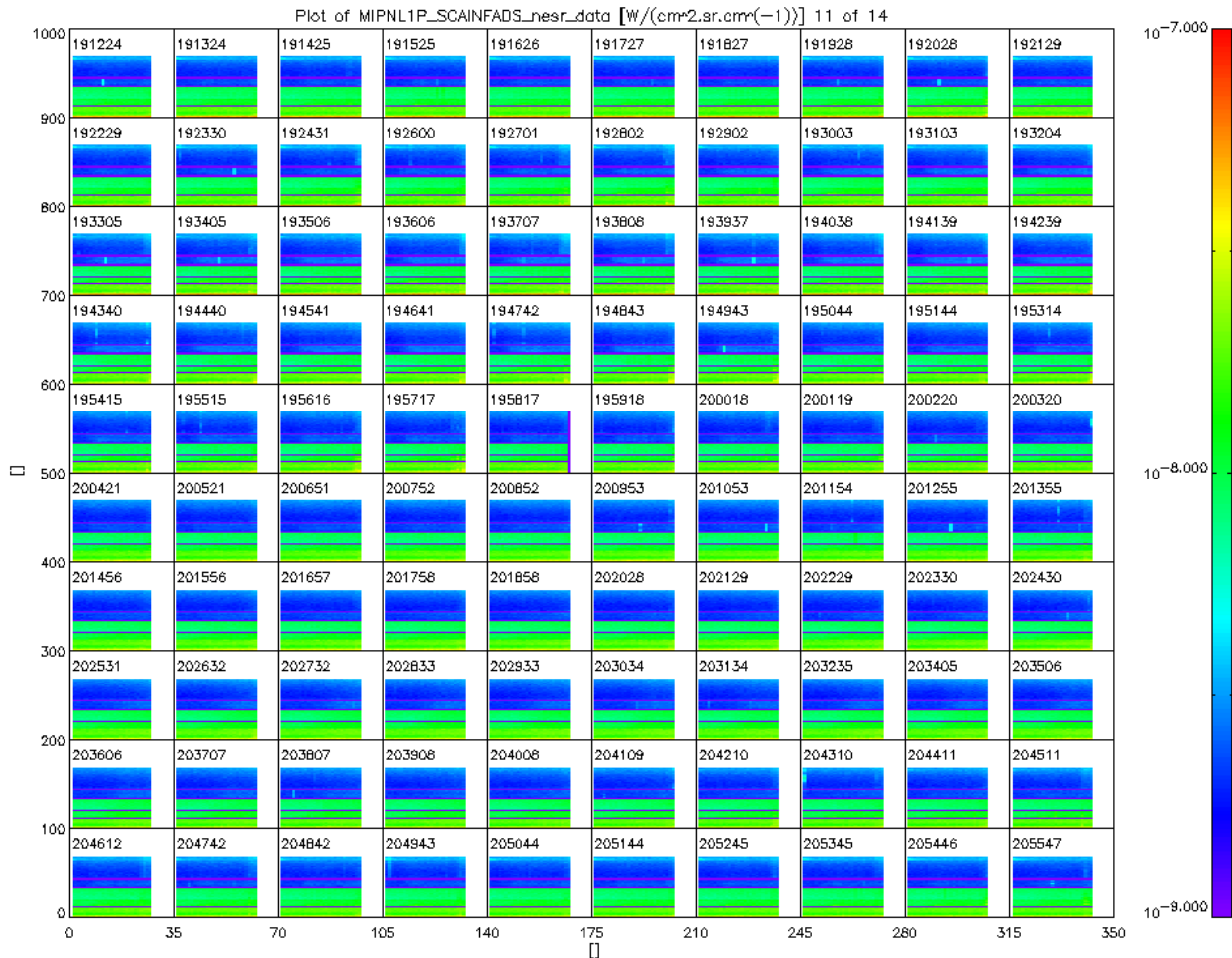


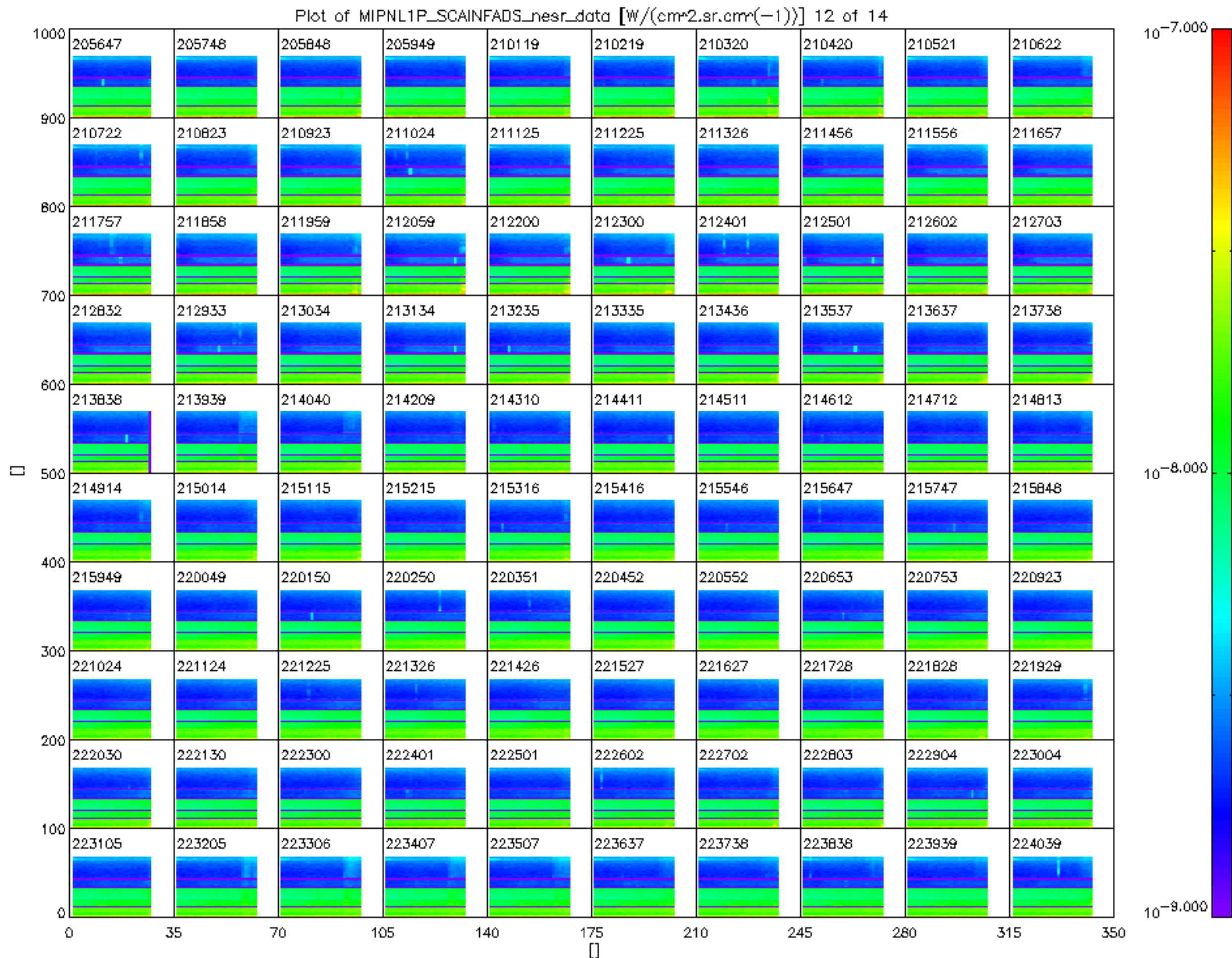


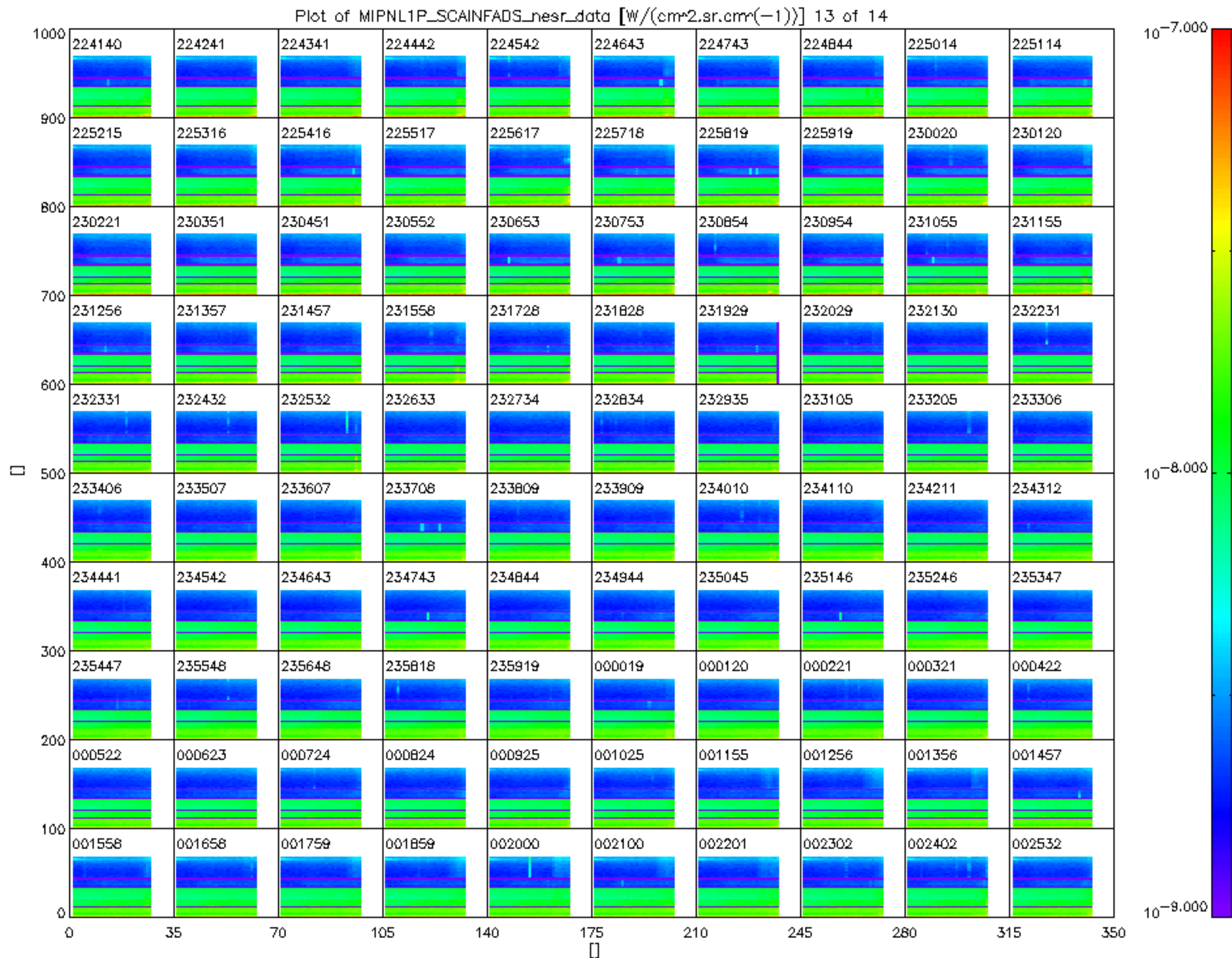


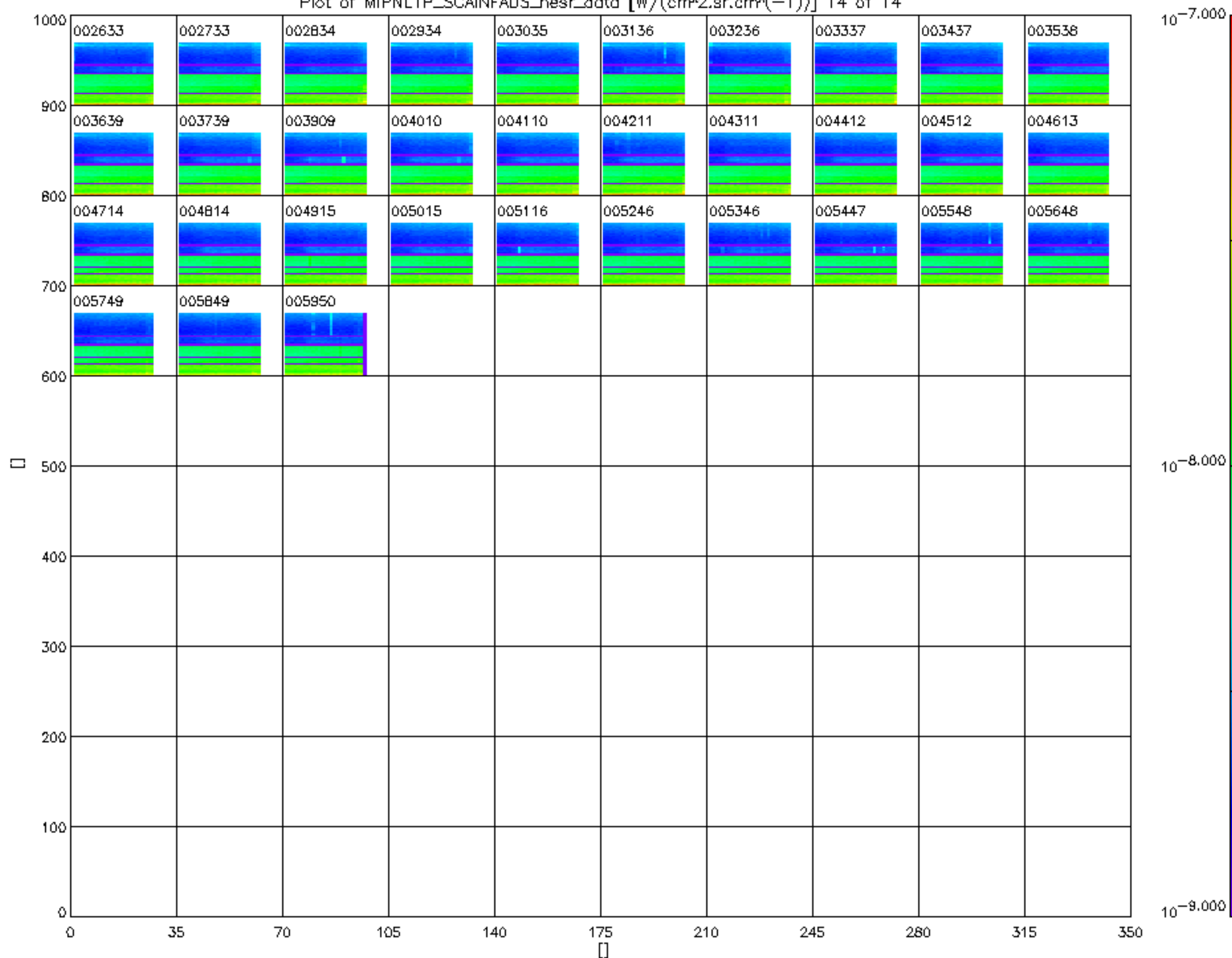


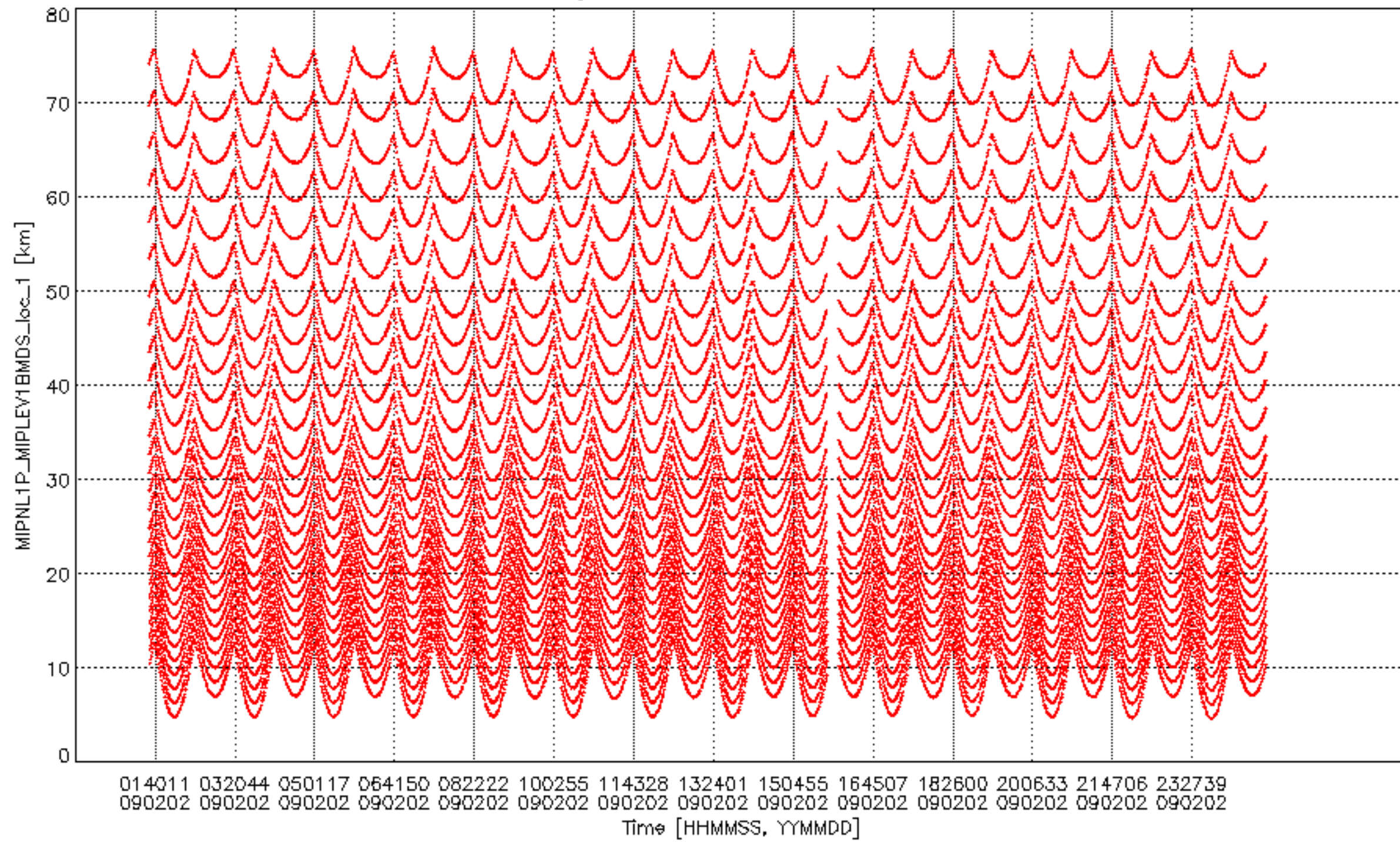




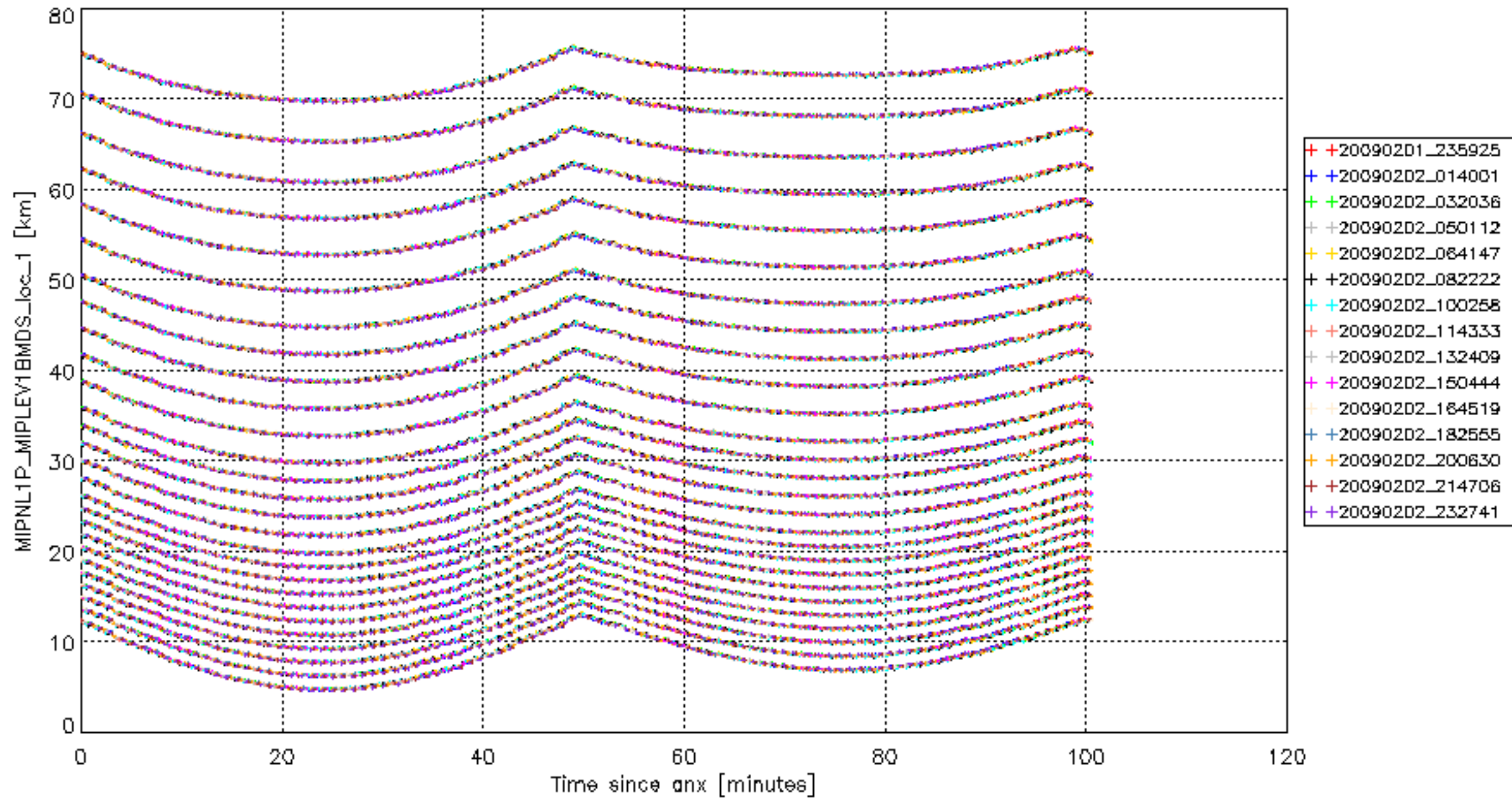


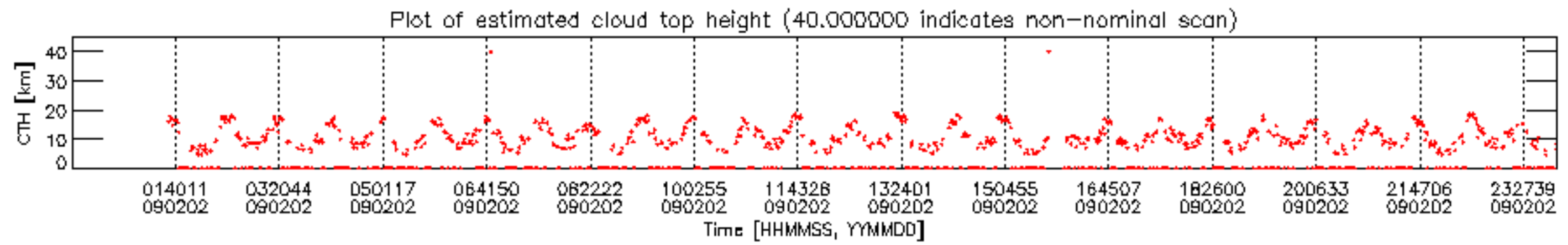






Plot of MIPNL1P_MIPLEV1BMD5_Joc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).





Geolocation plot of cloud top height [km] (non-nominal scans are red)

