

1. MIPAS Daily Report for level 1 products

[1.1. General Info](#)

[1.2 Product Quality Indicators](#)

[1.3 Physical Quality Indicators](#)

[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	v1.31 02-08-2006
Time of report generation	01DEC2006 00:43:55
Data source version	MIPAS/4.67-P
Processing scope for products	26OCT2006 00:00:00 to 27OCT2006 00:00:00
Start time of first product within scope	26OCT2006 03:02:46
Stop time of last product within scope	26OCT2006 23:15:17
Total number of level 1 products	8
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.

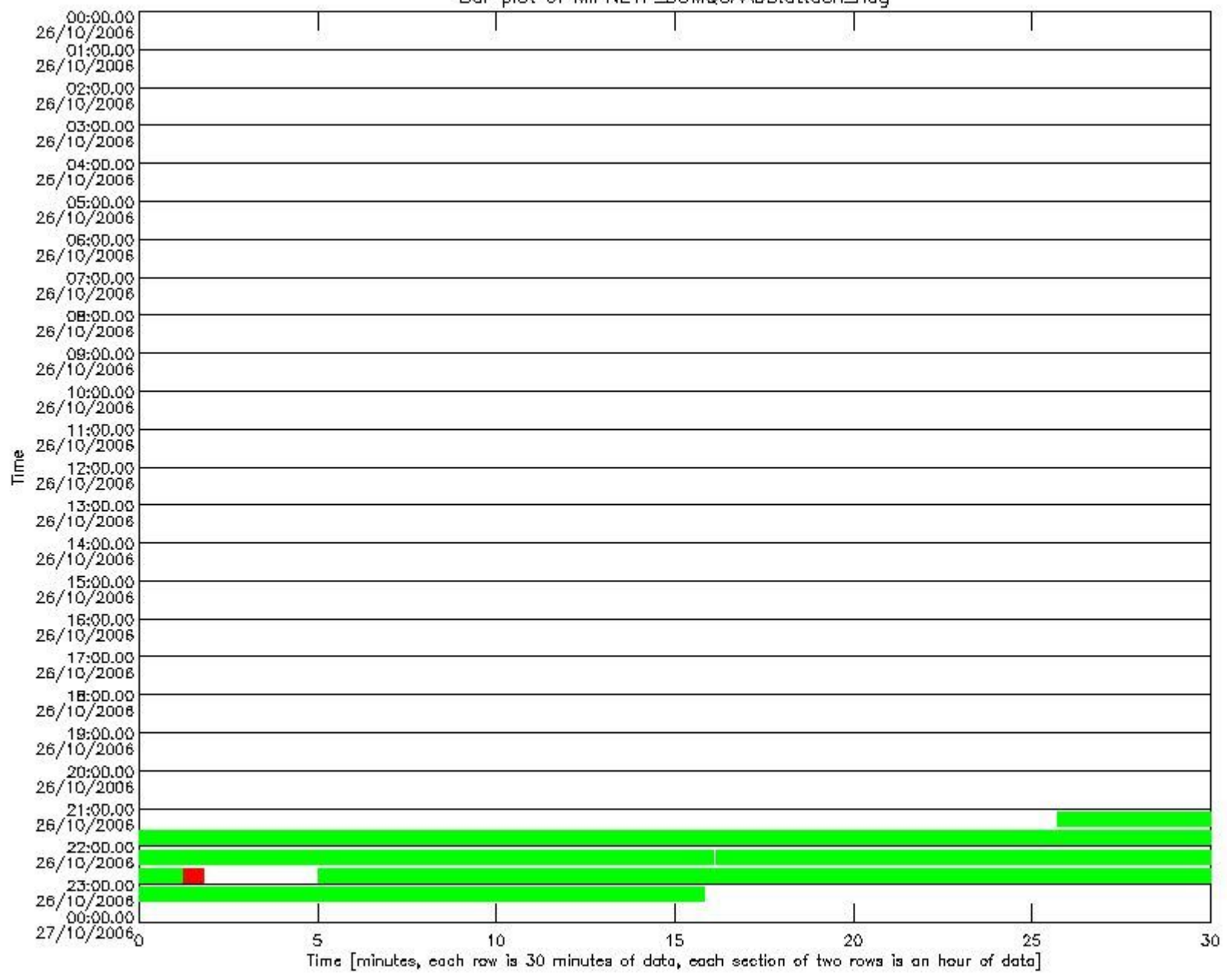
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)
0	MIP_NL__1PPDPA20061026_030246_000057512052_00233_24335_1134.N1	26OCT2006 03:02:46	26OCT2006 04:38:36	0	0/0
1	MIP_NL__1PPDPA20061026_043943_000060302052_00234_24336_1120.N1	26OCT2006 04:39:43	26OCT2006 06:20:12	0	0/0
2	MIP_NL__1PPDPA20061026_062019_000005402052_00235_24337_1142.N1	26OCT2006 06:20:19	26OCT2006 06:29:18	0	0/0
3	MIP_NL__1PPDPA20061026_112546_000057502052_00238_24340_1127.N1	26OCT2006 11:25:46	26OCT2006 13:01:35	0	0/0
4	MIP_NL__1PPDPA20061026_130242_000060302052_00239_24341_1125.N1	26OCT2006 13:02:42	26OCT2006 14:43:12	0	0/0
5	MIP_NL__1PPDPA20061026_144318_000005402052_00240_24342_1141.N1	26OCT2006 14:43:18	26OCT2006 14:52:17	0	0/0
6	MIP_NL__1PPDPA20061026_212542_000060302052_00244_24346_1163.N1	26OCT2006 21:25:42	26OCT2006 23:06:12	0	0/0
7	MIP_NL__1PPDPA20061026_230618_000005402052_00245_24347_1187.N1	26OCT2006 23:06:18	26OCT2006 23:15:17	0	0/0

1.2 Product Quality Indicators

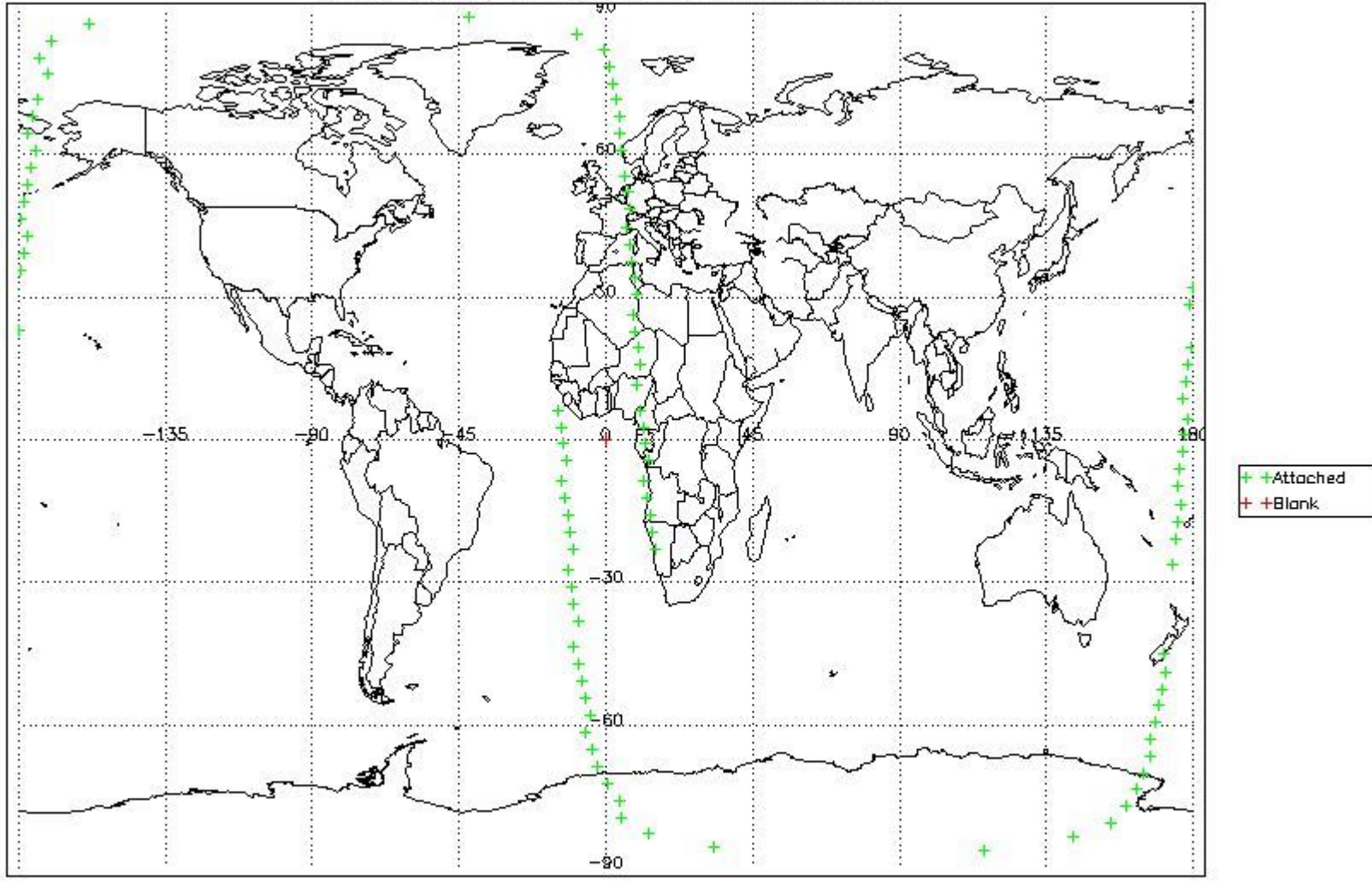
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

1.2.1 Trends and geolocation of Summary Quality ADS

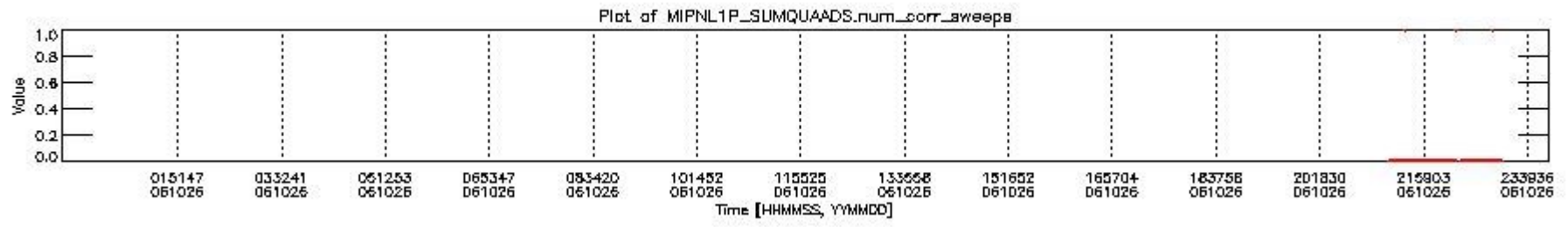
Bar plot of MIPNL1P_SUMQUAADS.attach_flag



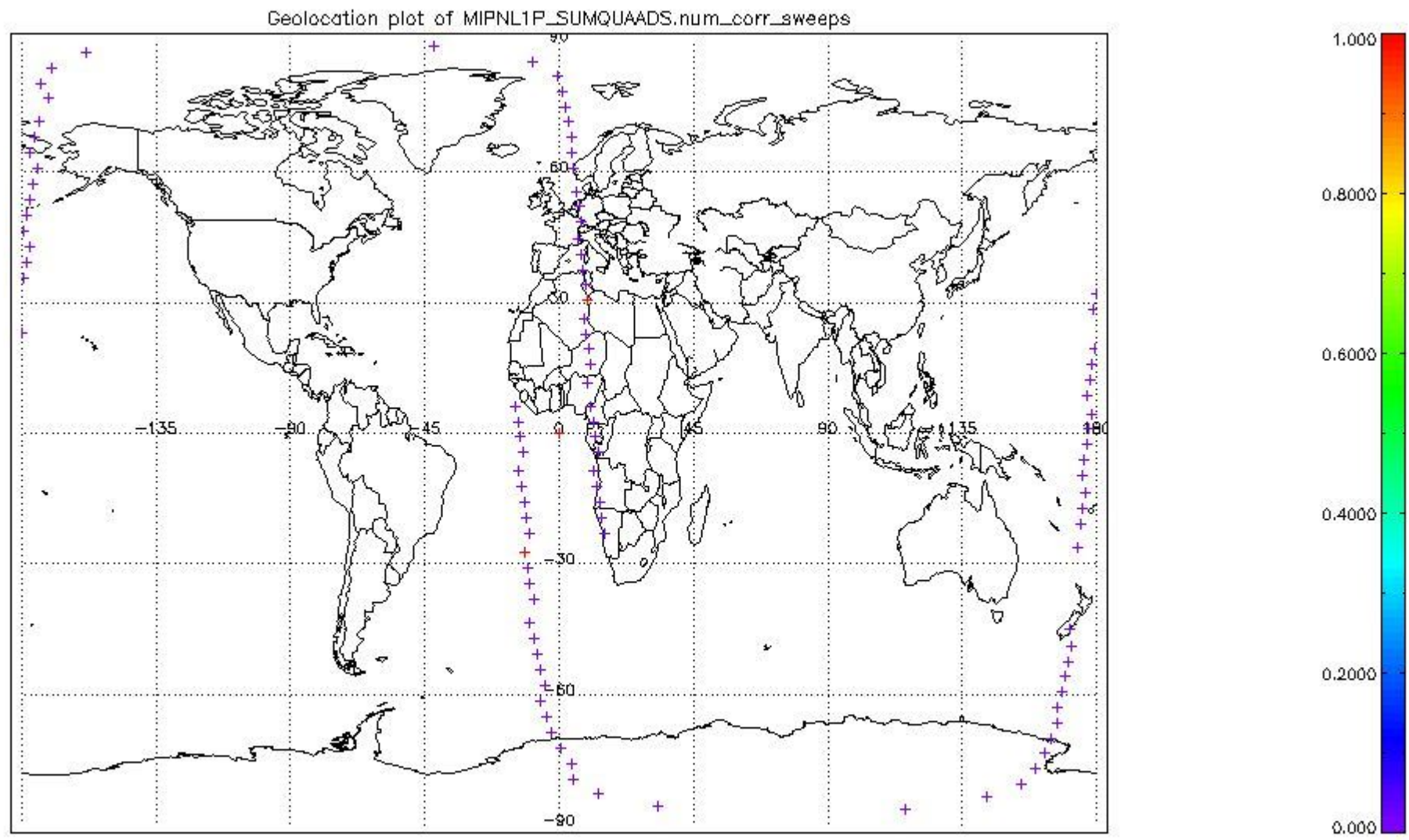
Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag



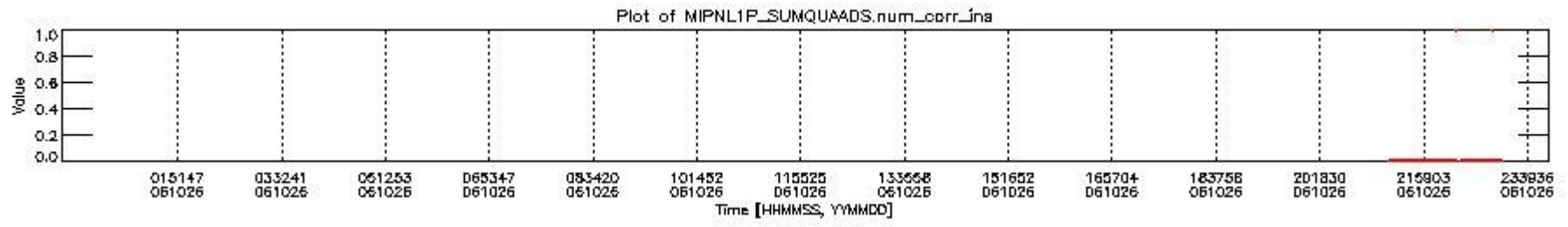
mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_1.PNG



mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_2.PNG

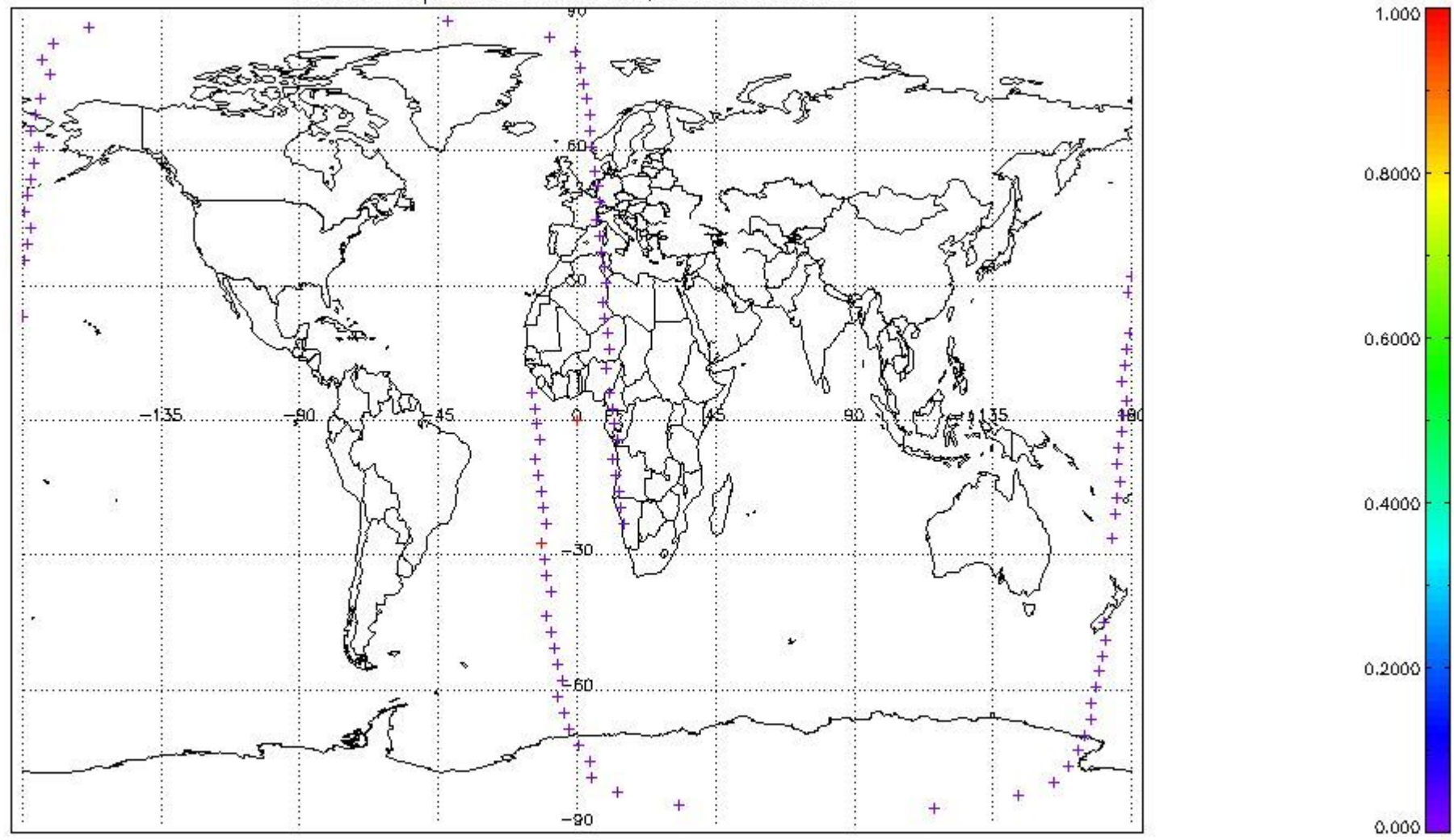


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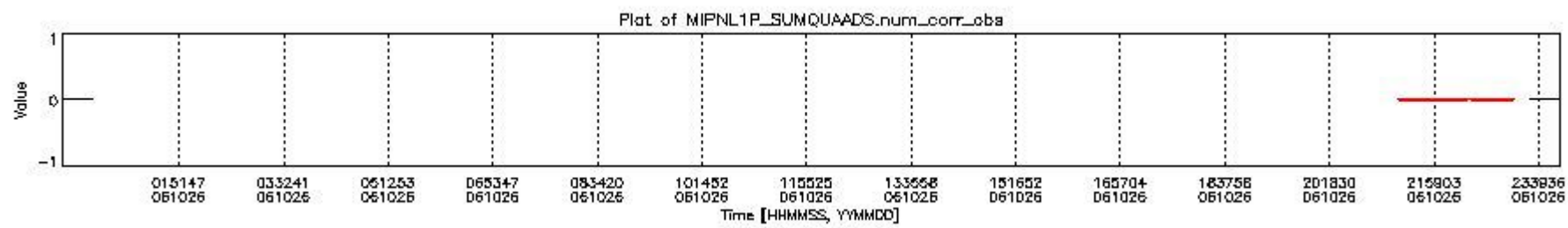


mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_4.PNG

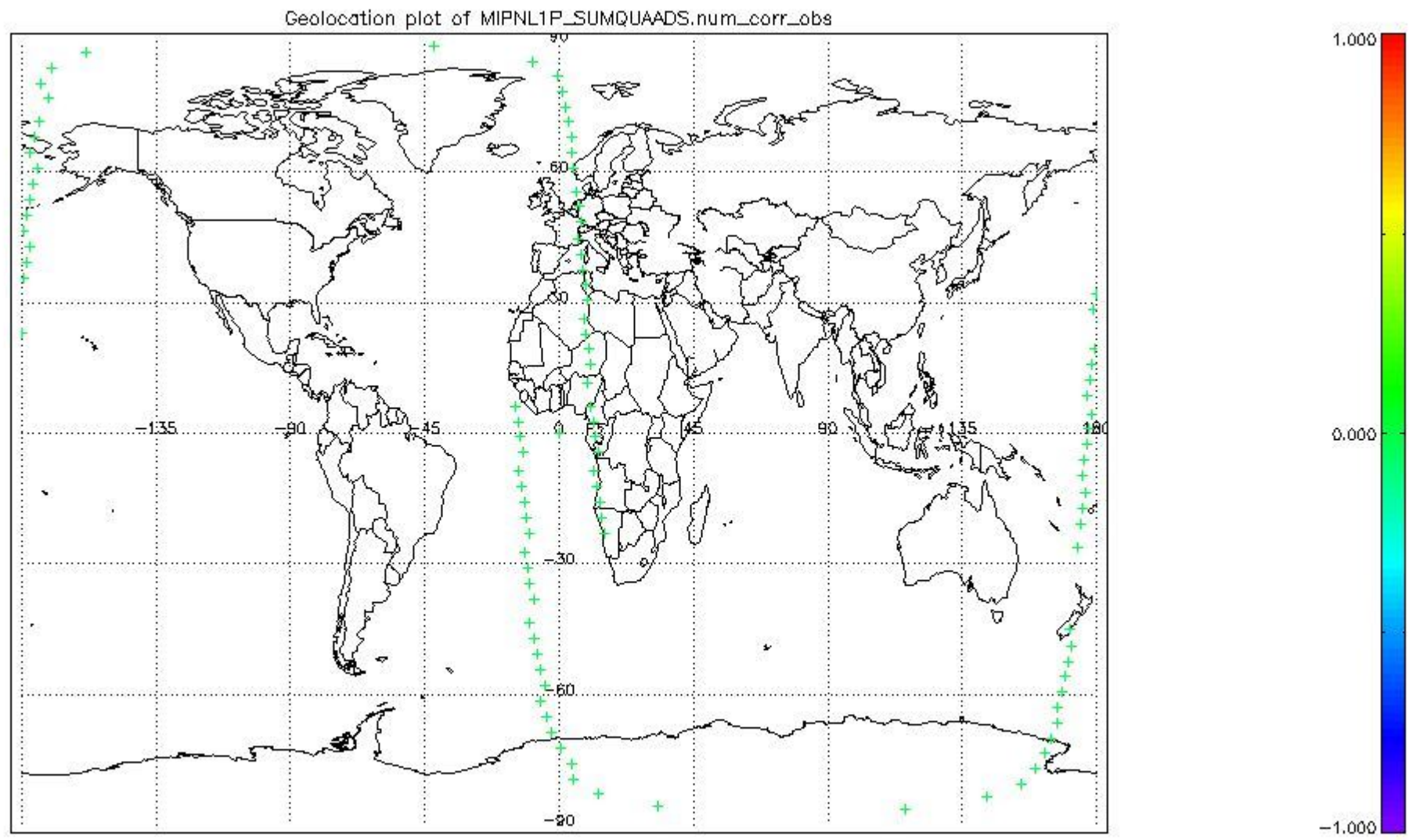
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins



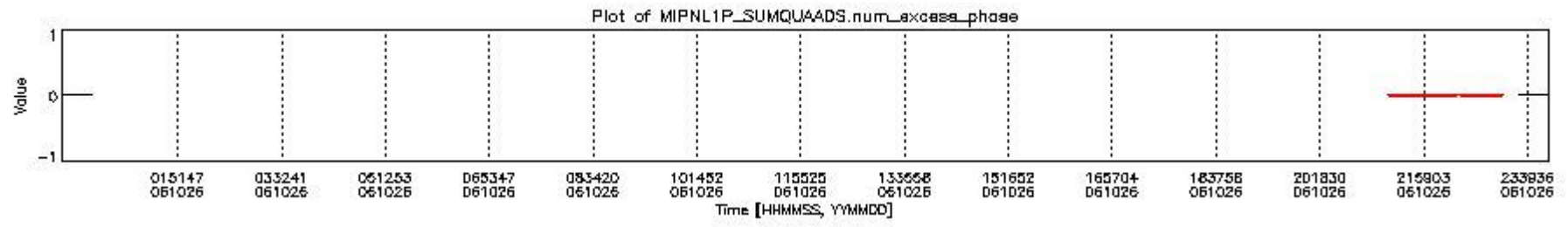
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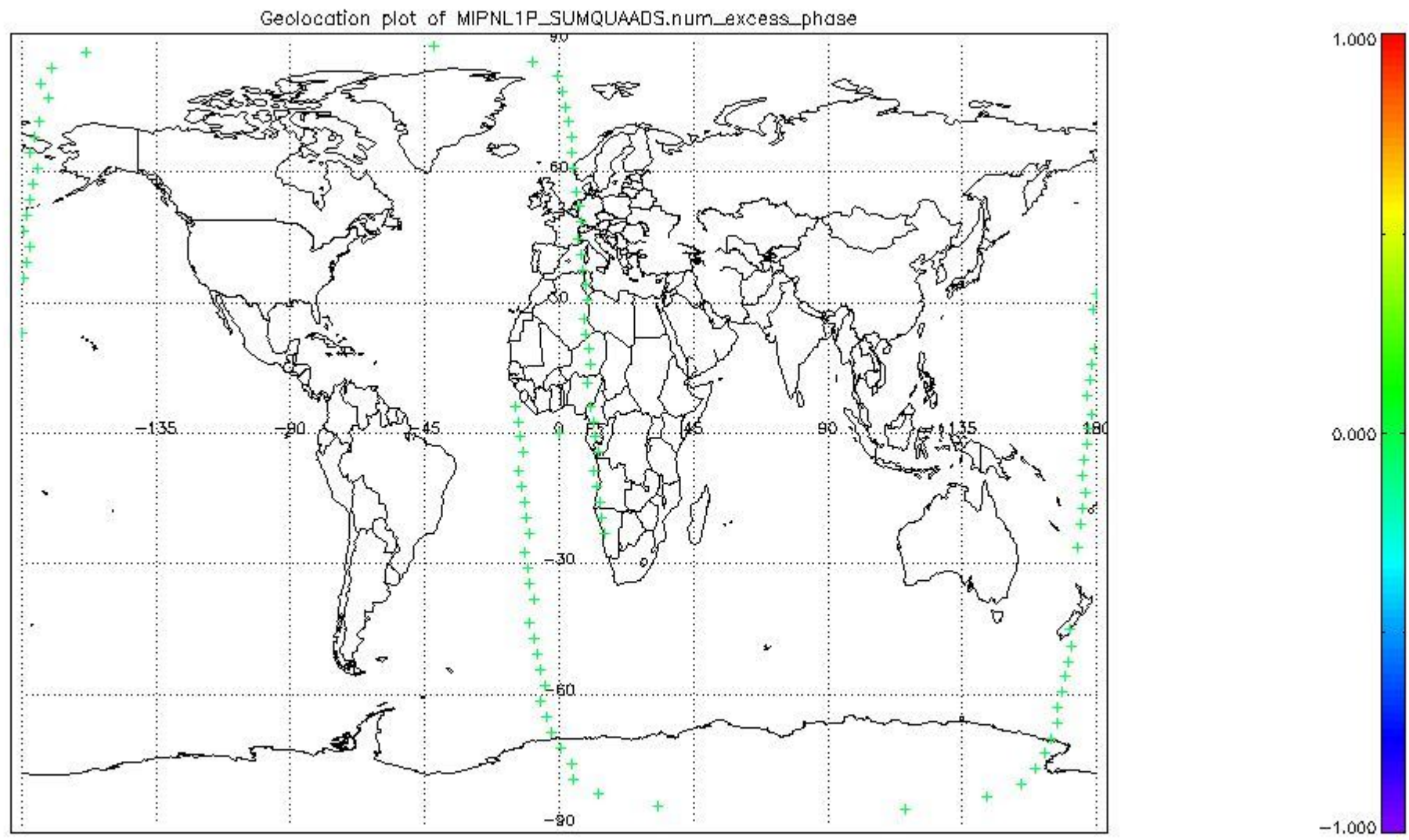
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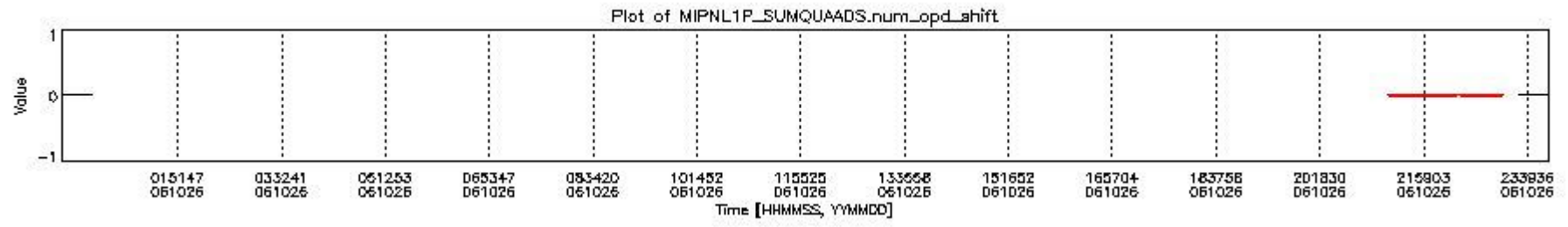
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mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_8.PNG

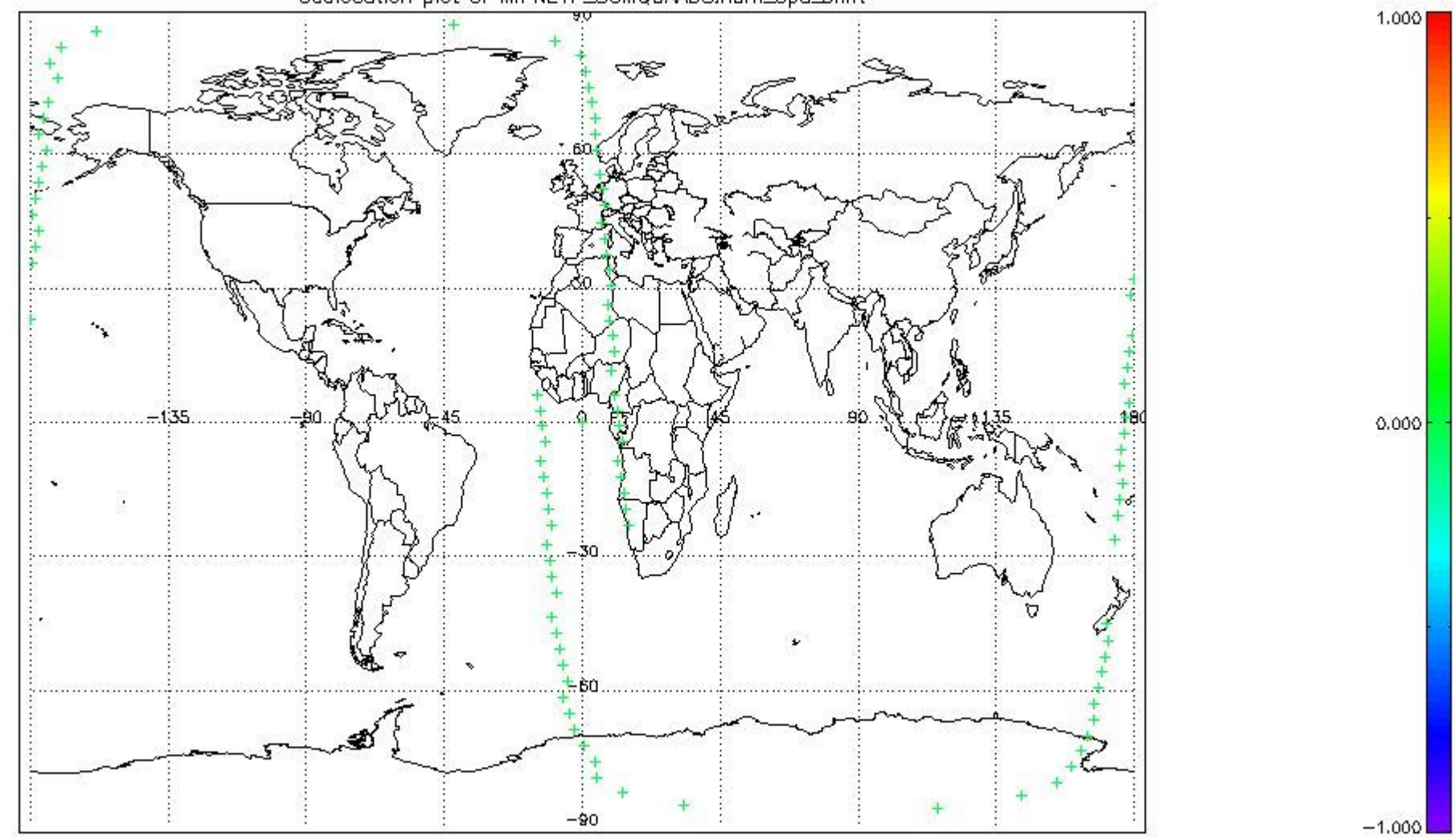


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_9.PNG

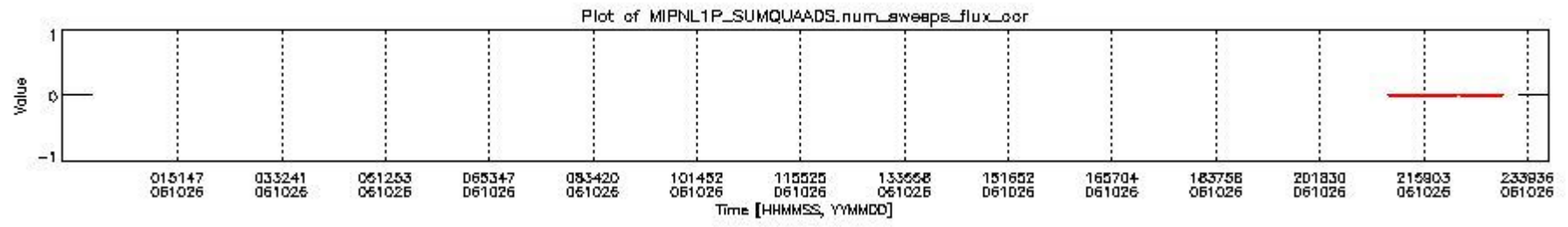


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_10.PNG

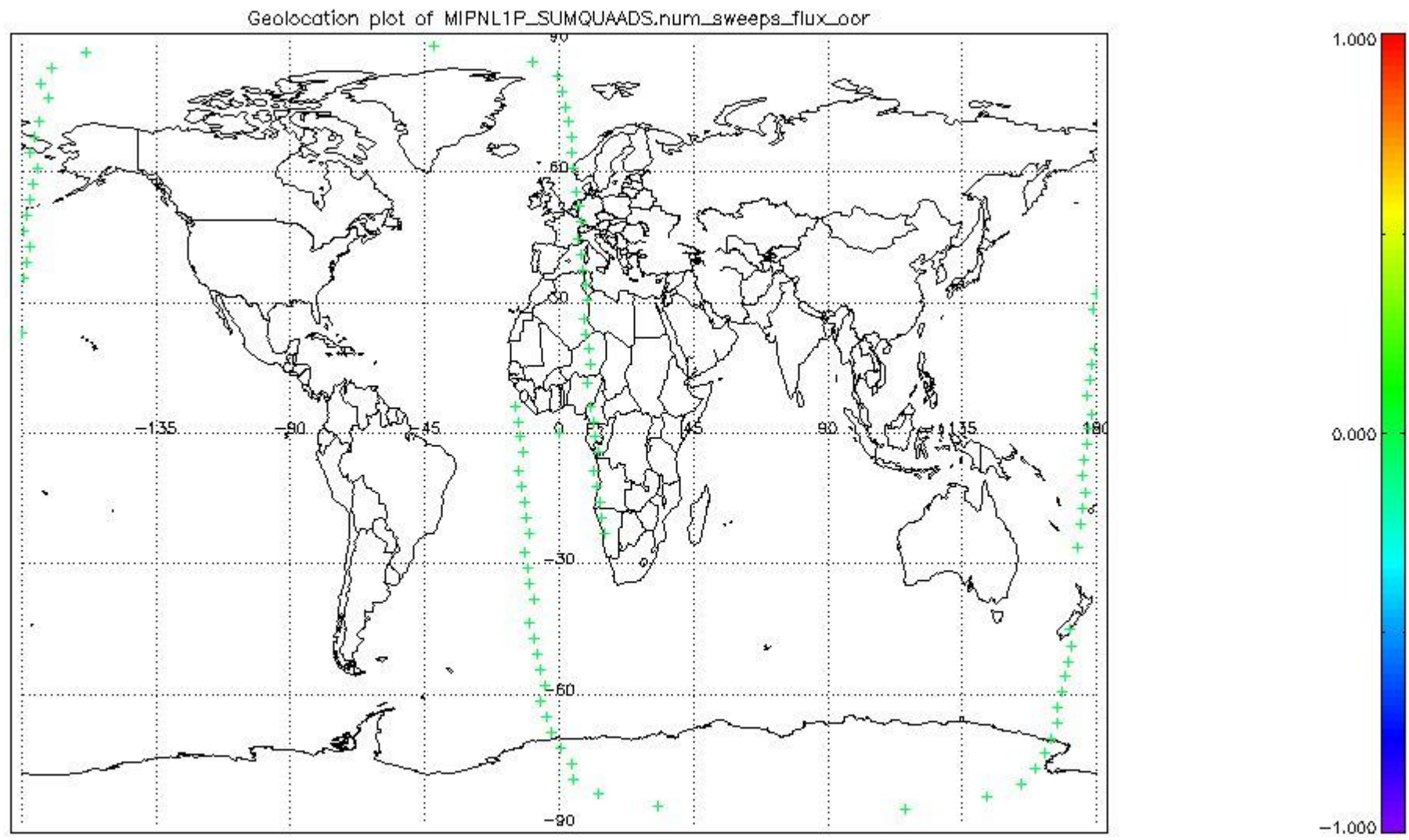
Geolocation plot of MIPNL1P_SUMQUAADS.num_0pd_shift



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_11.PNG



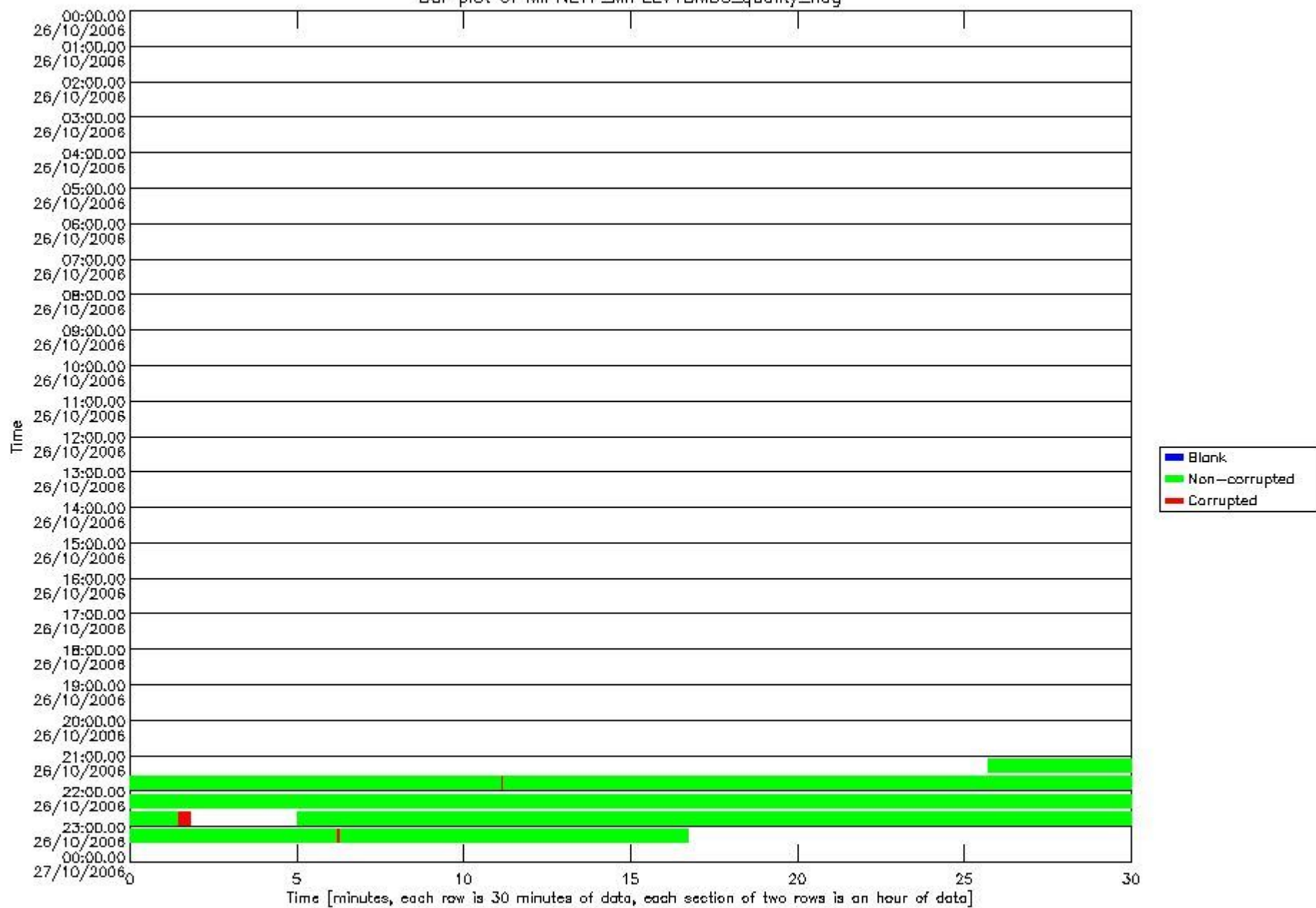
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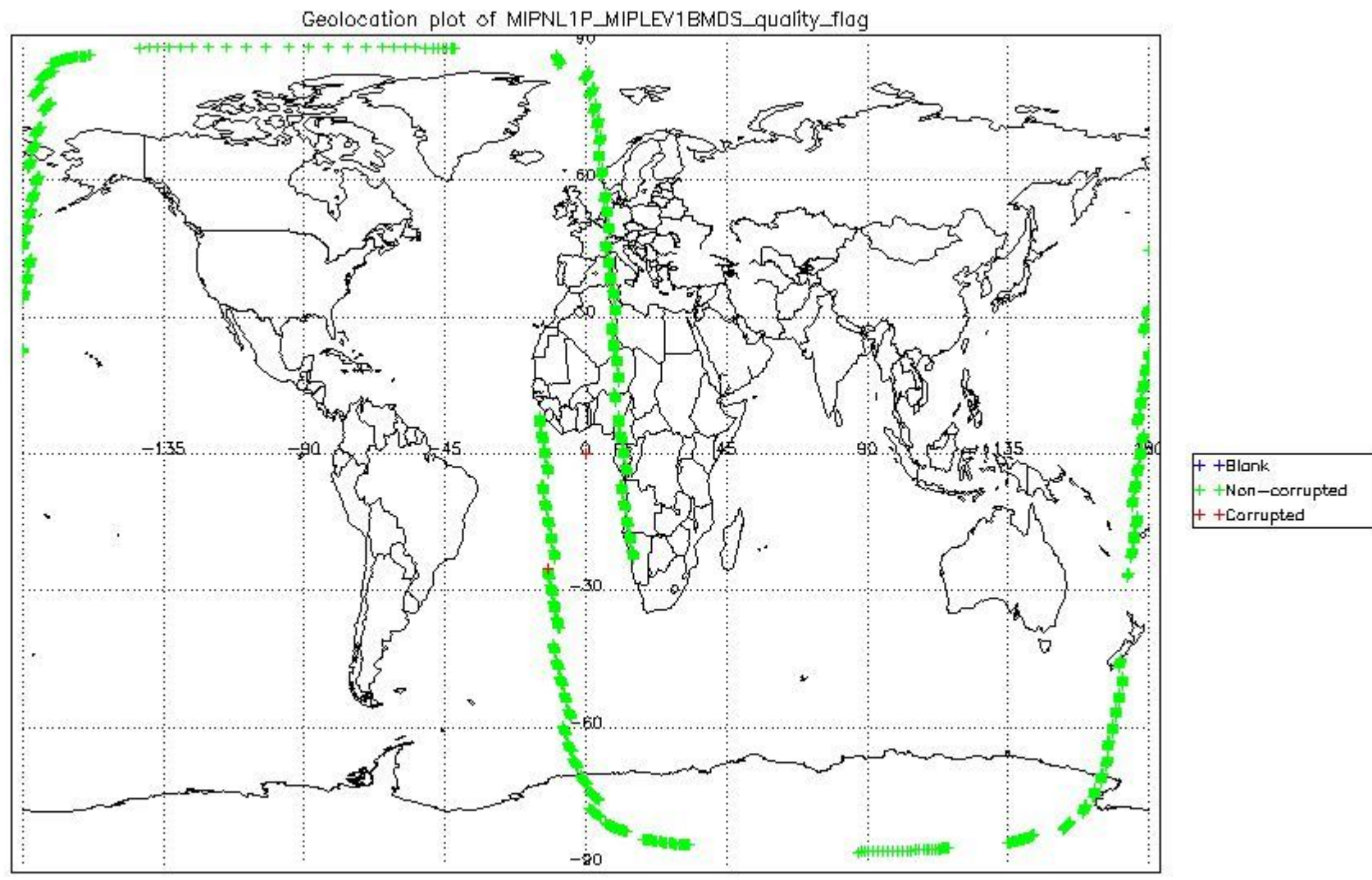


mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_13.PNG

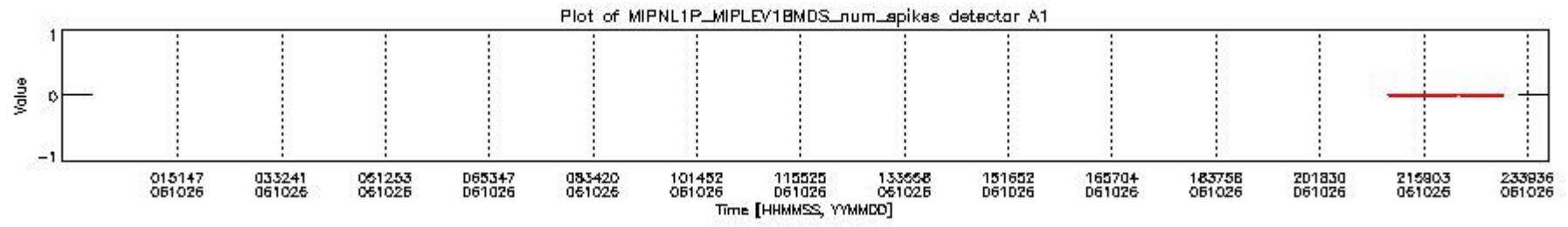
1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag

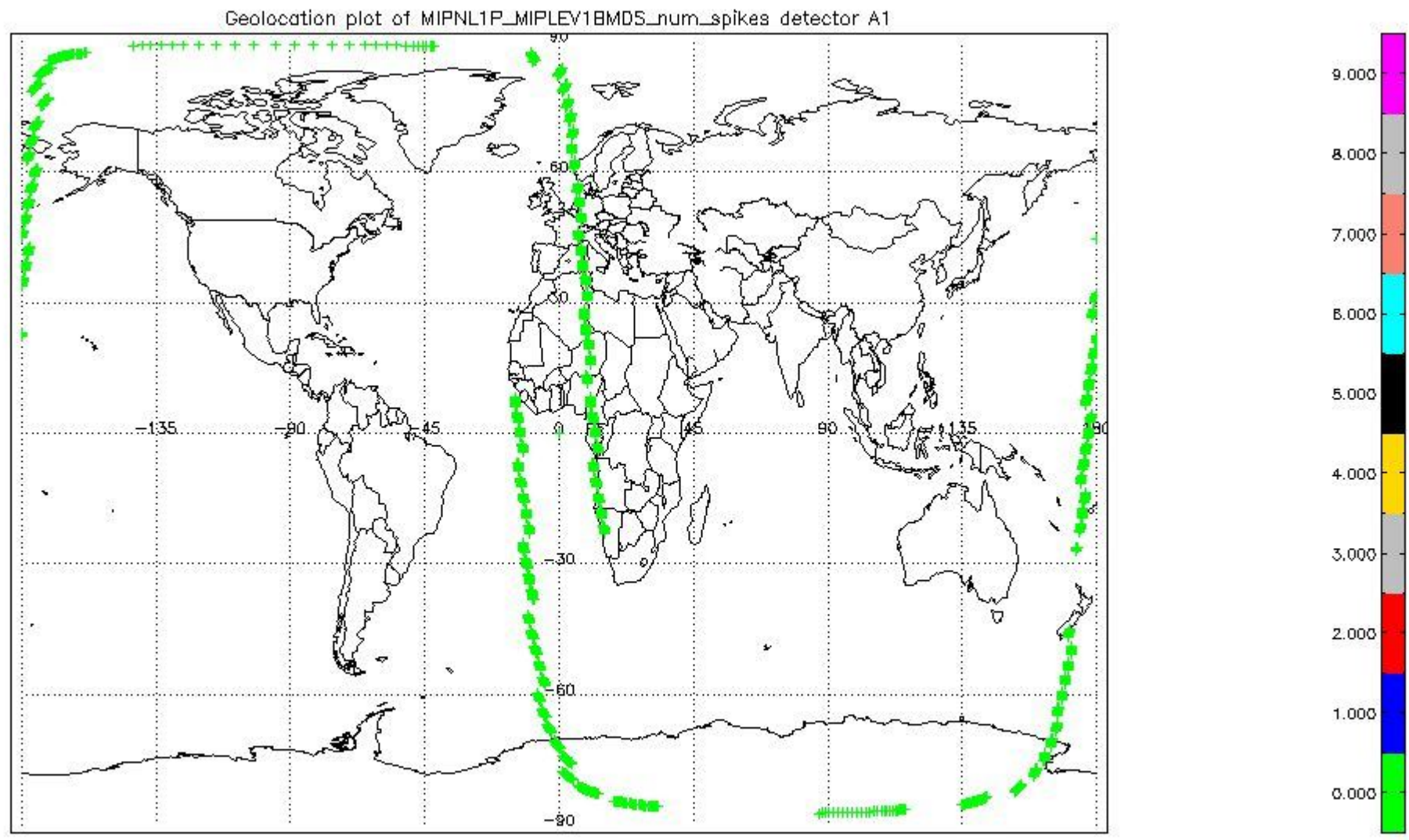




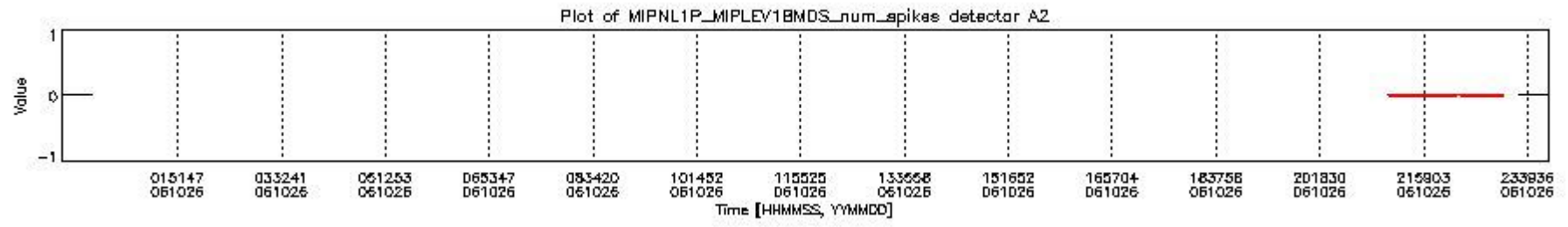
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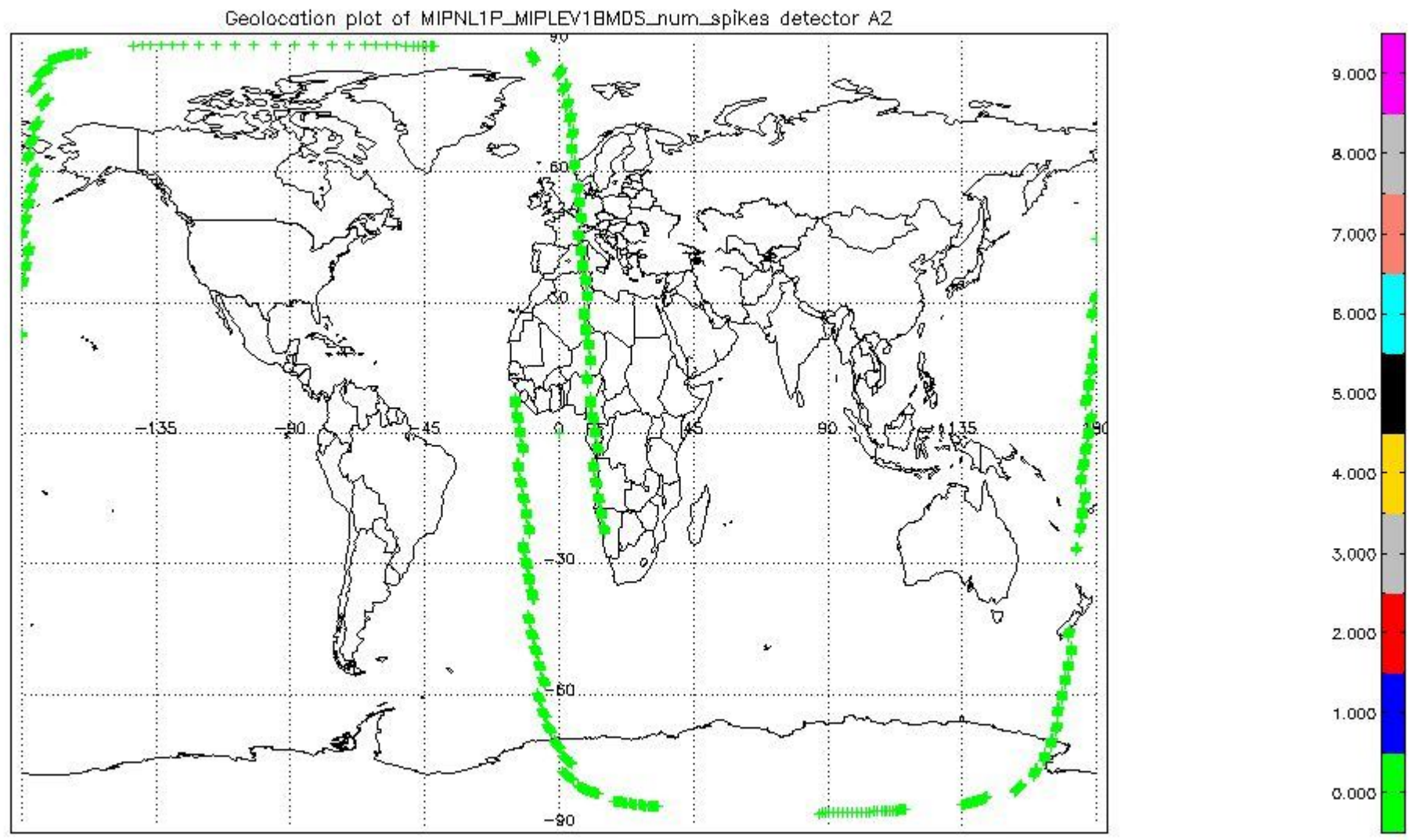
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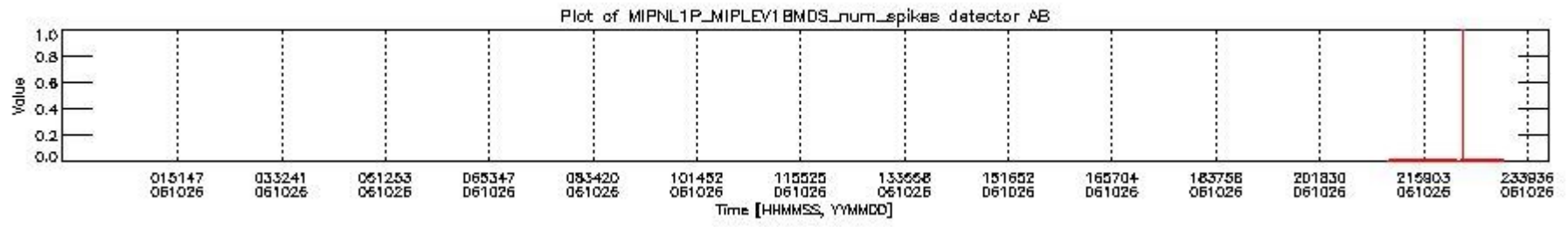
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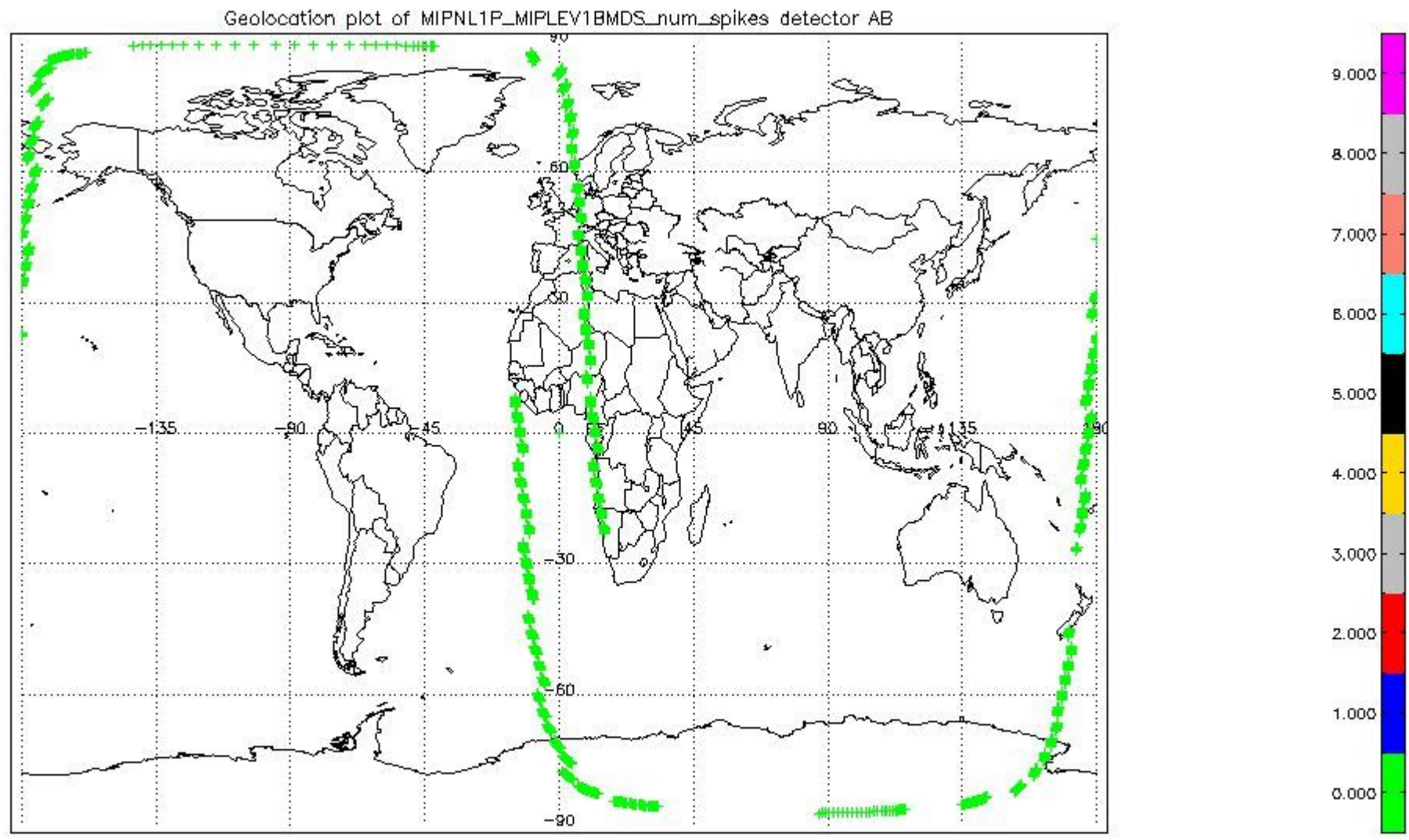
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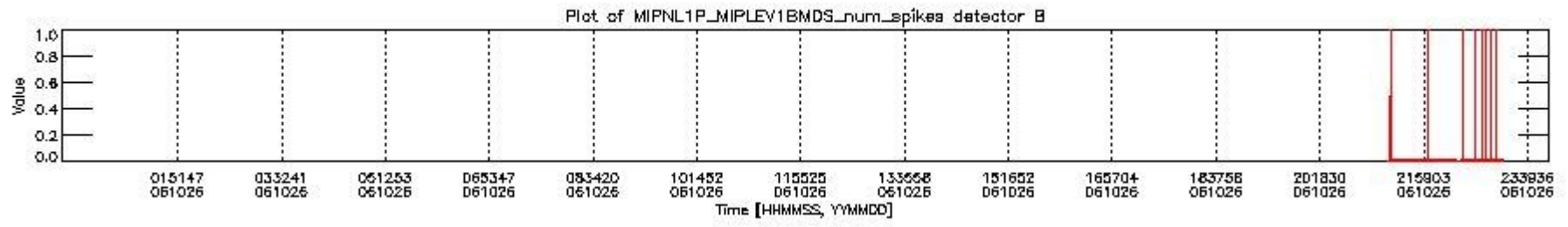
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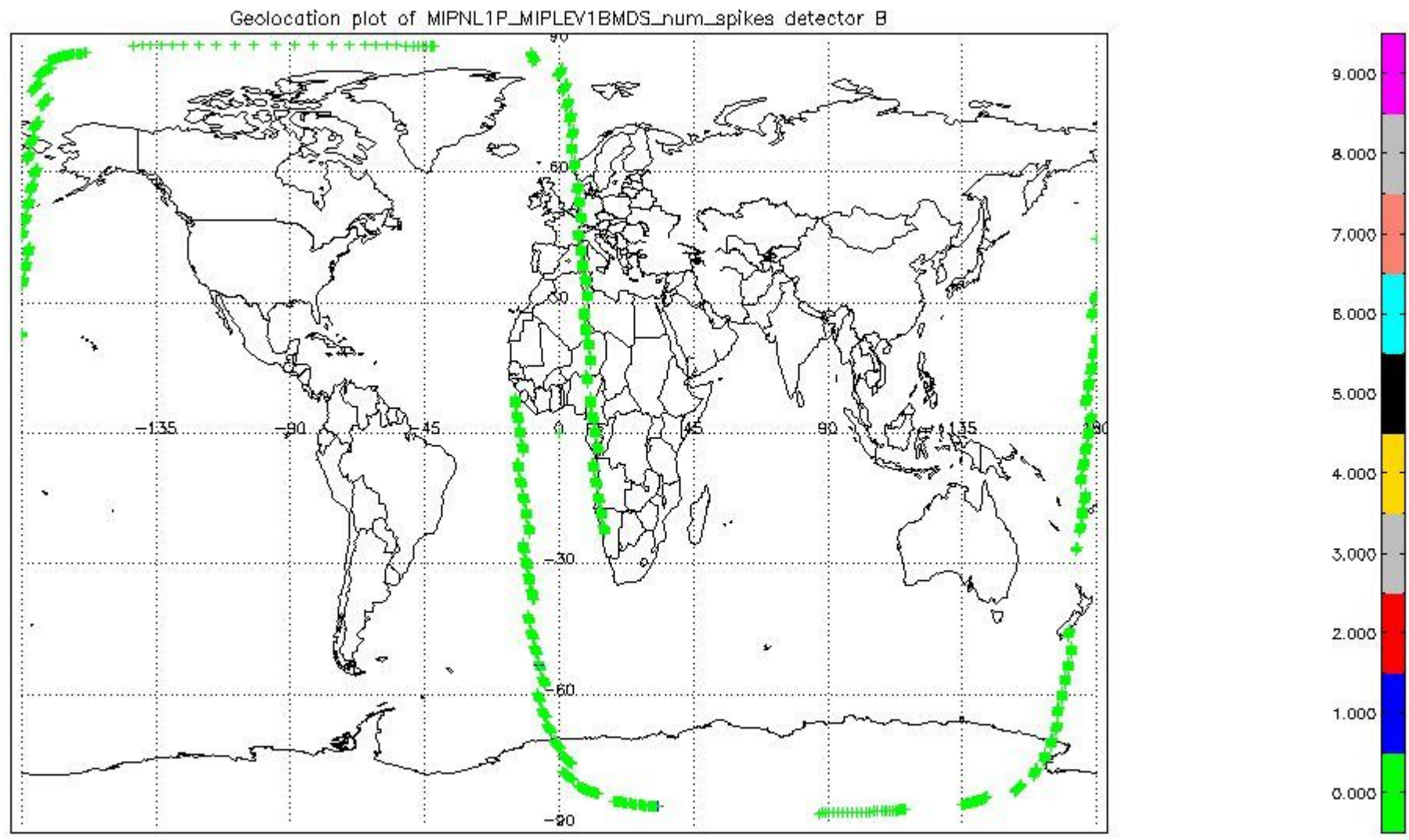
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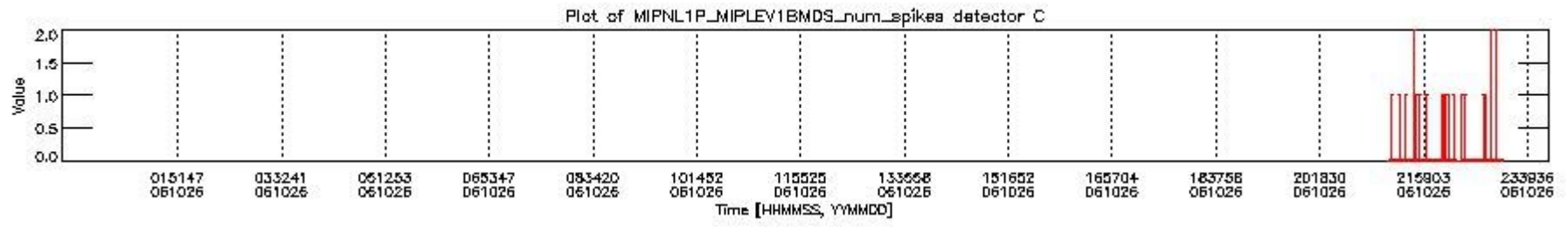
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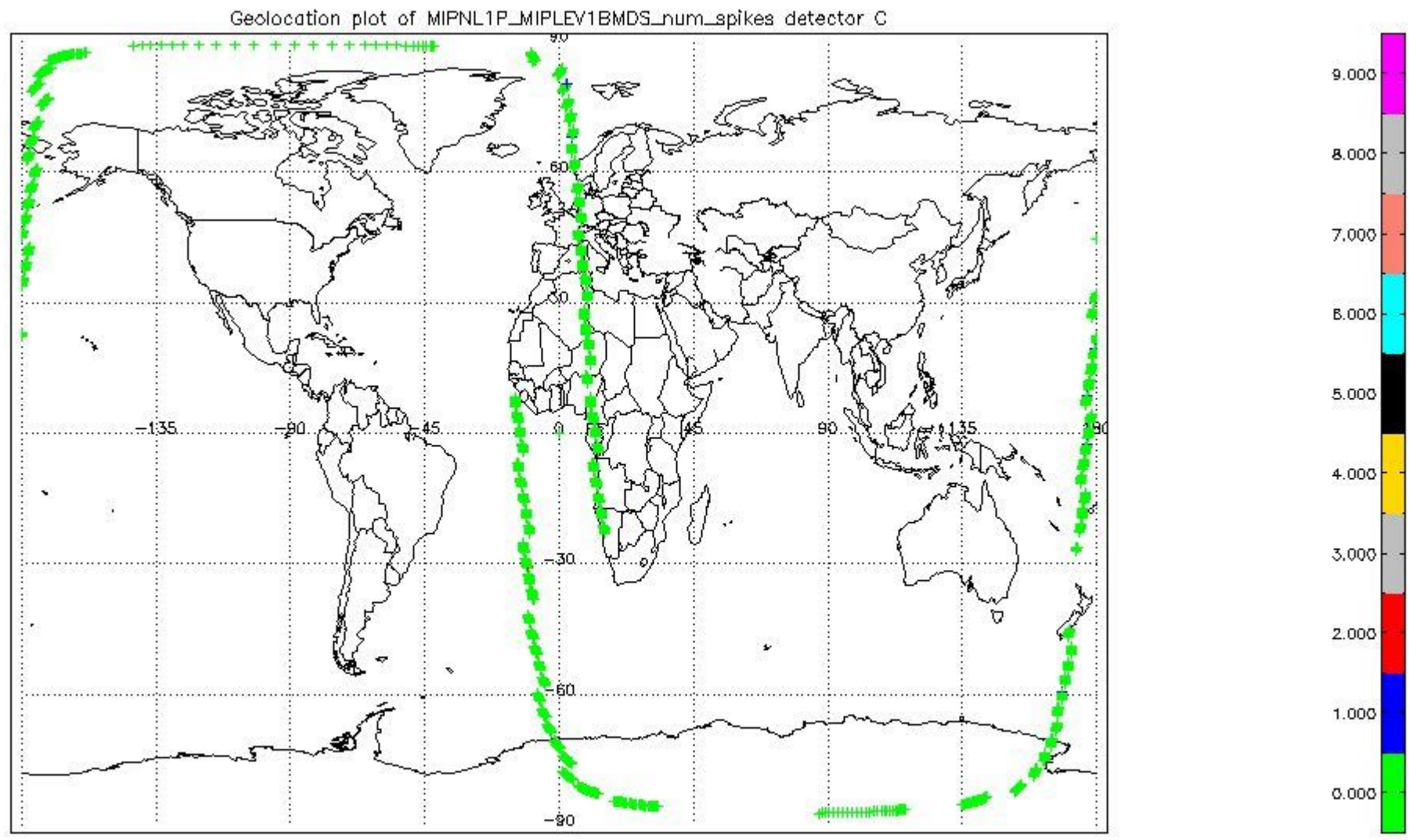
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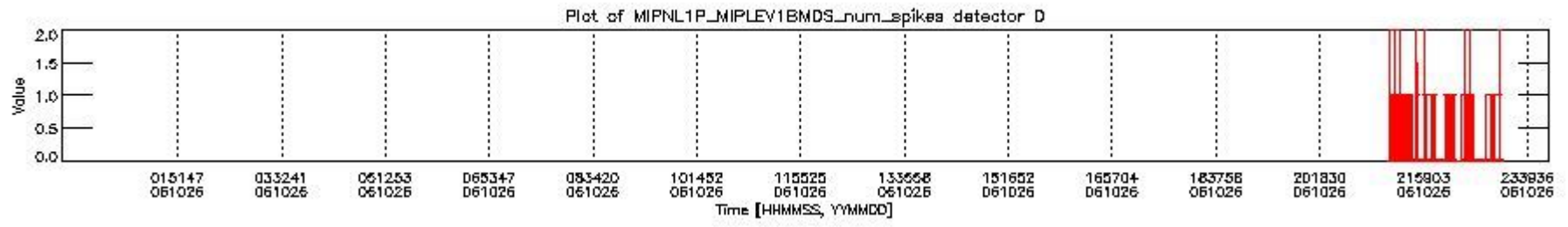
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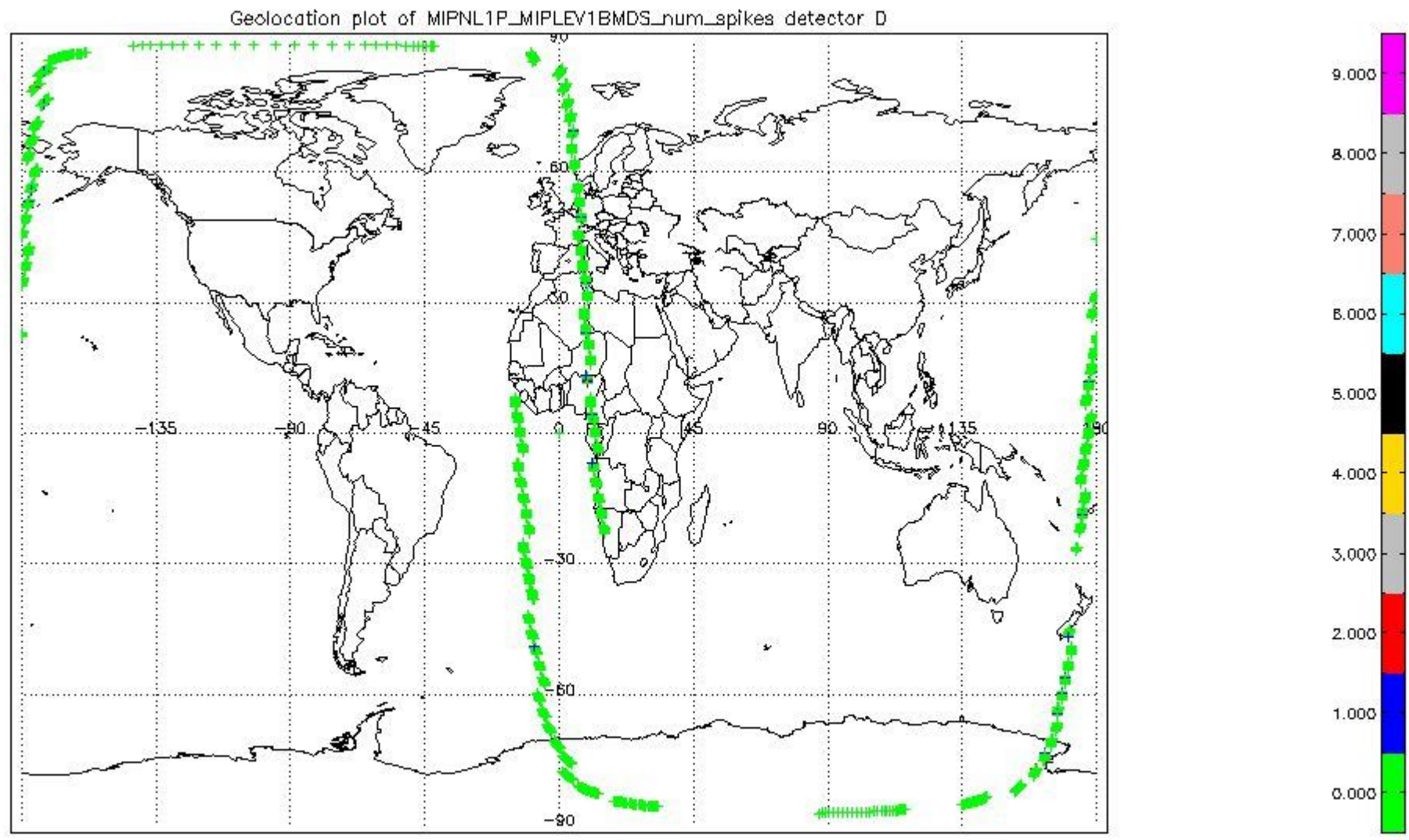
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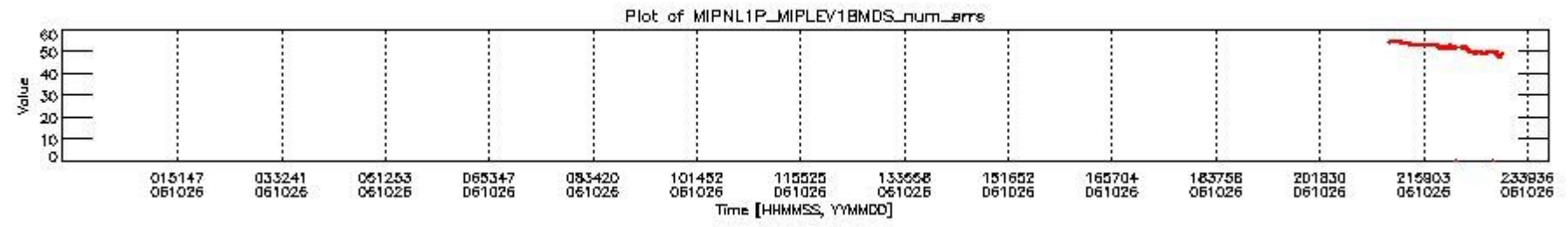
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mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_26.PNG

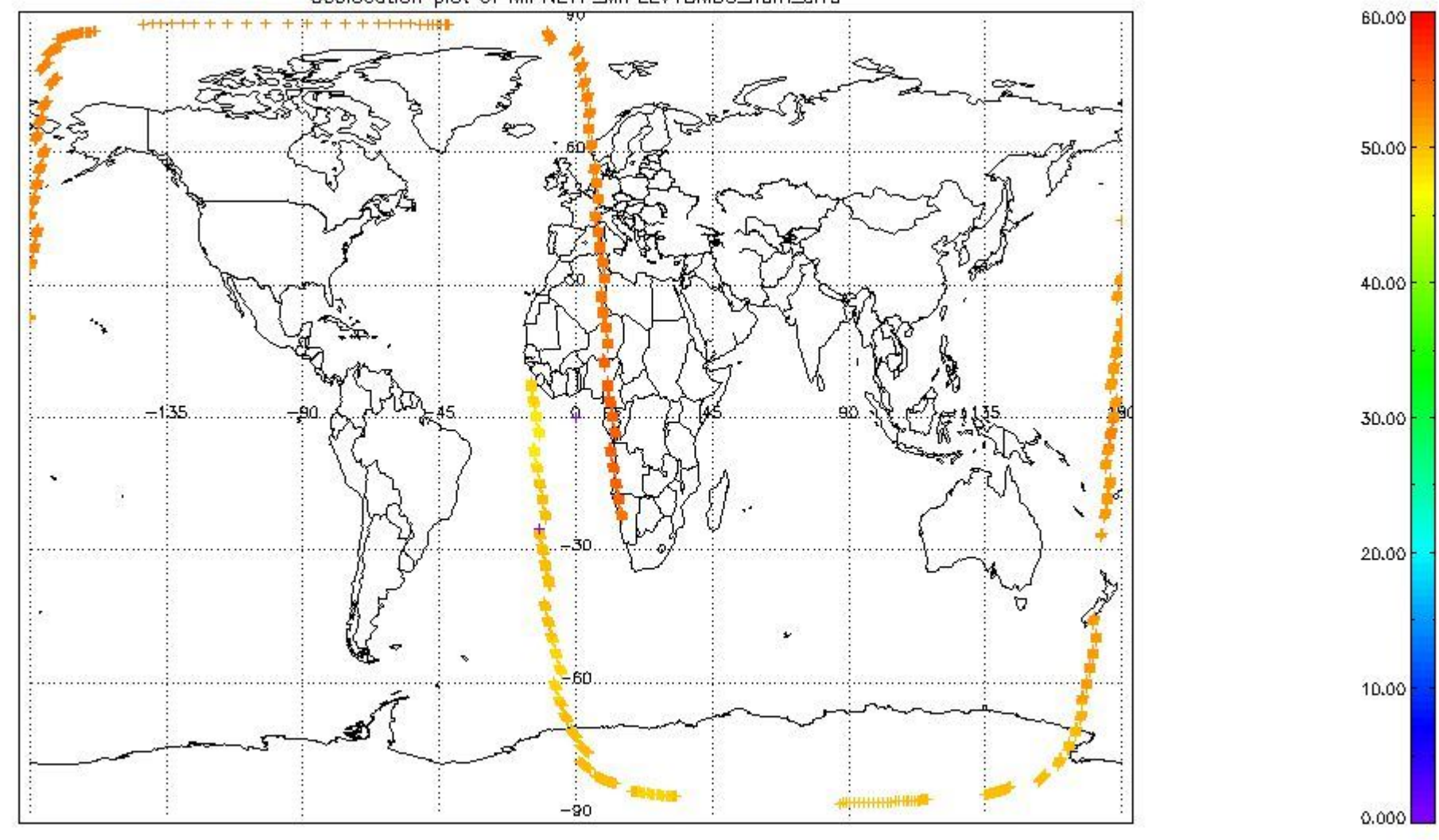


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_27.PNG

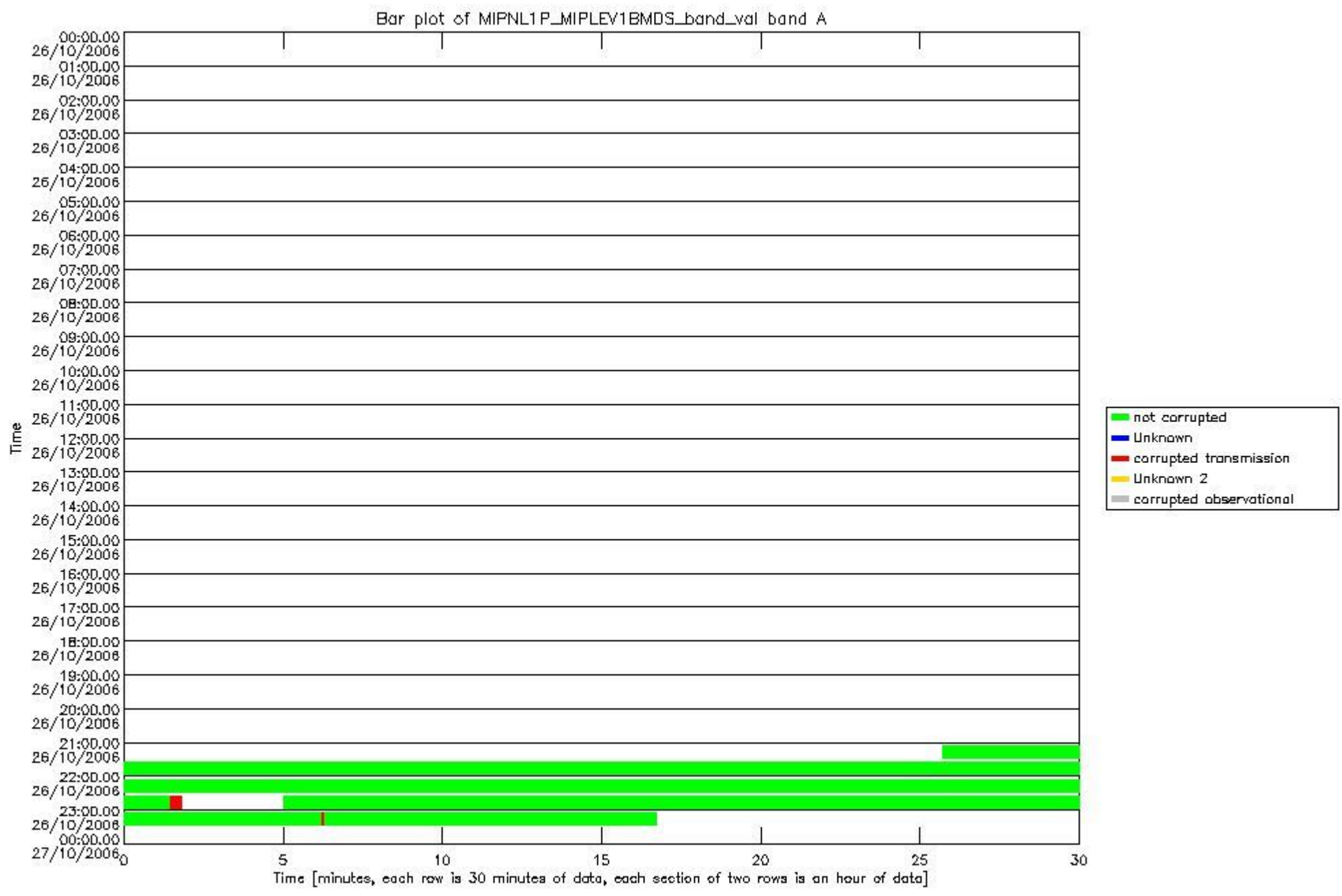


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_28.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs

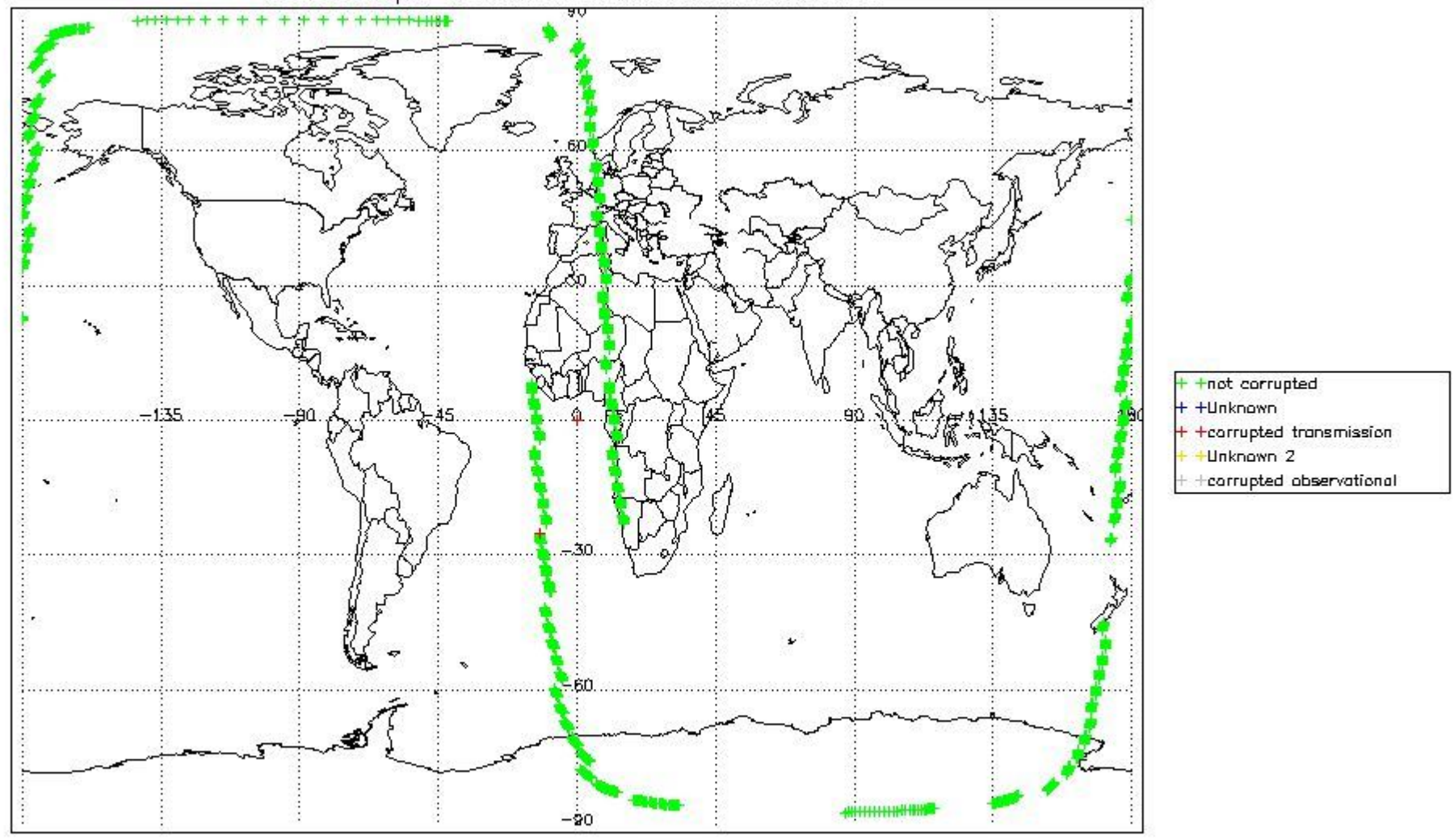


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_29.PNG

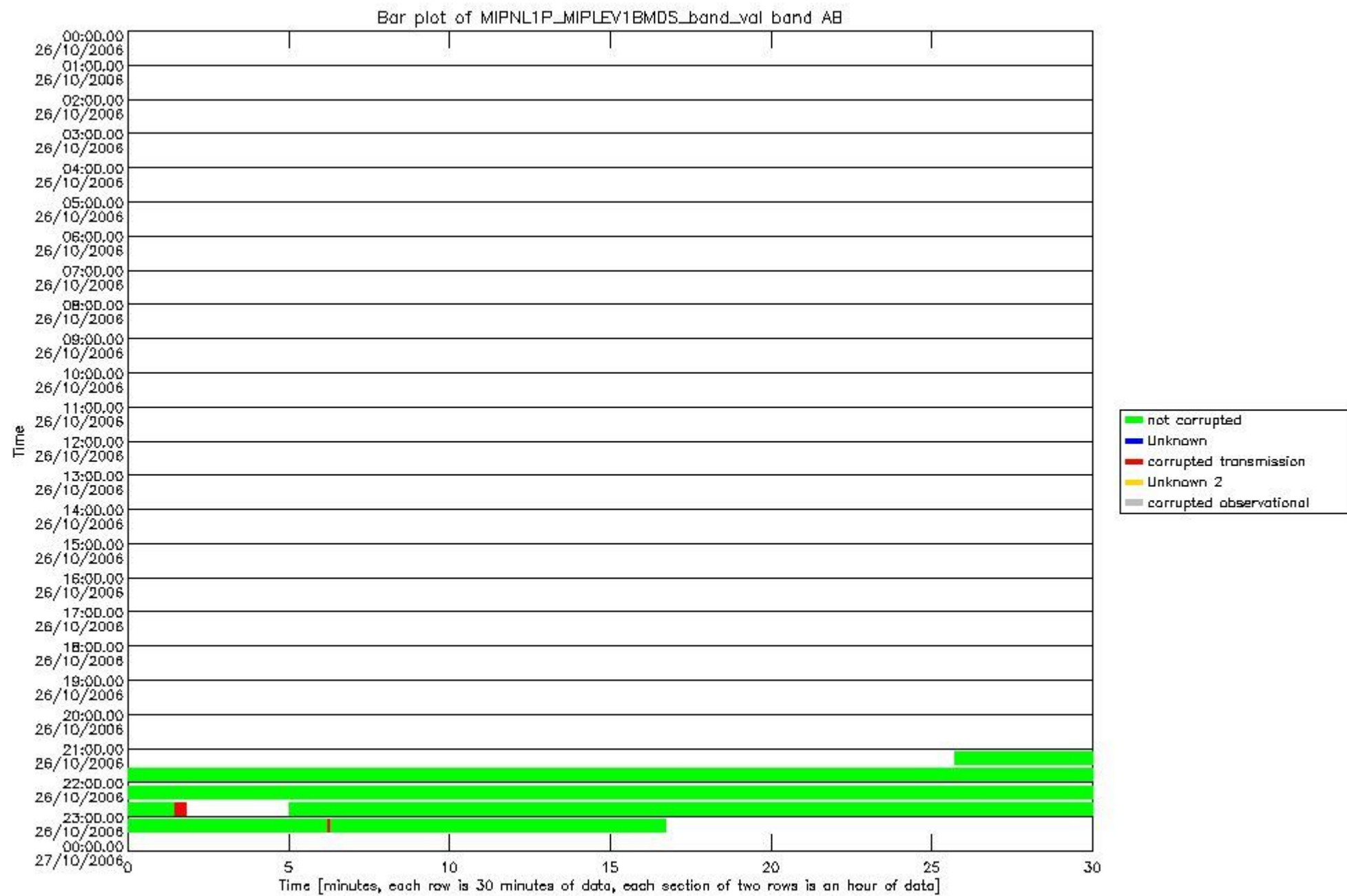


mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061026_30.PNG

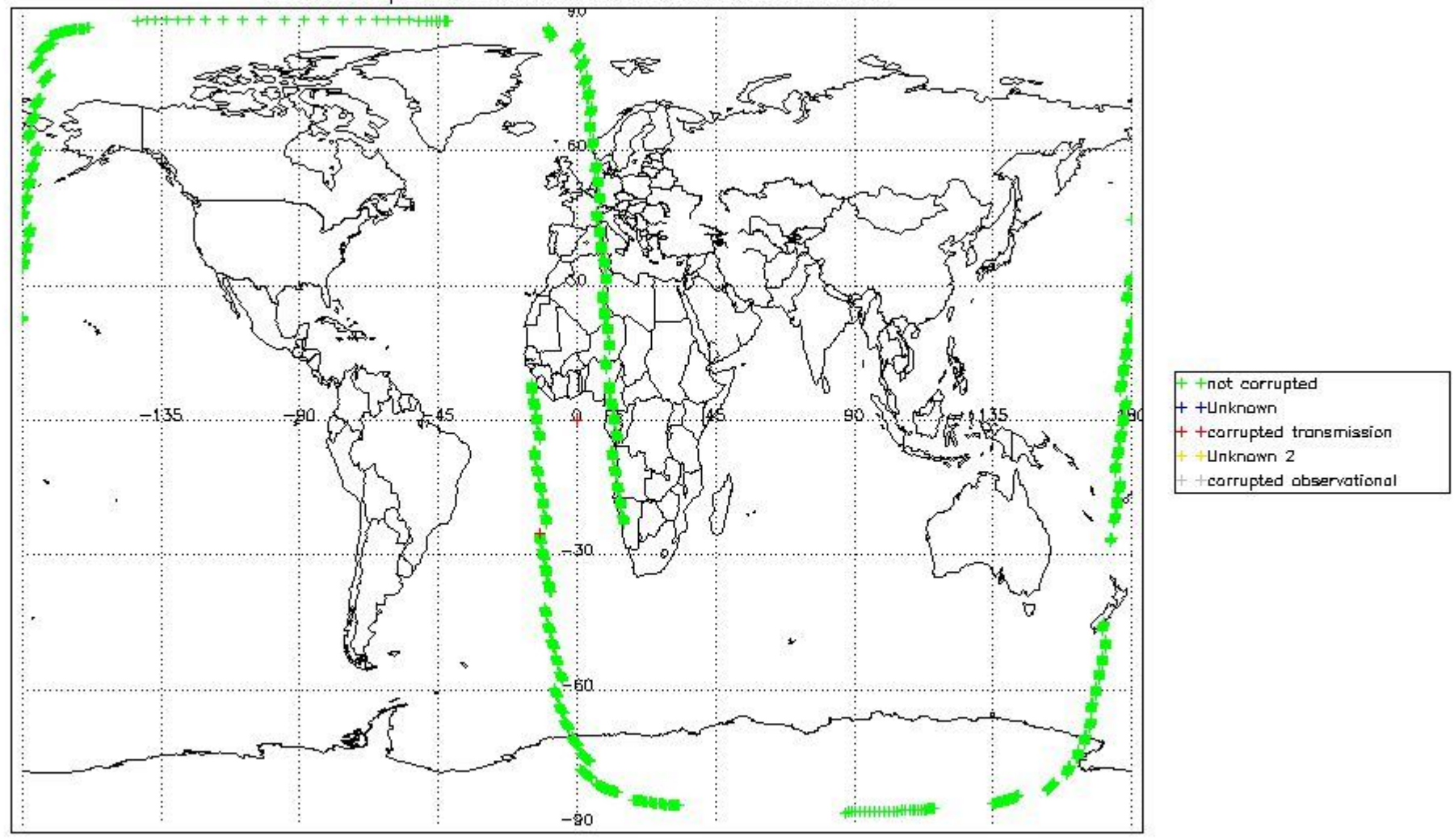
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A



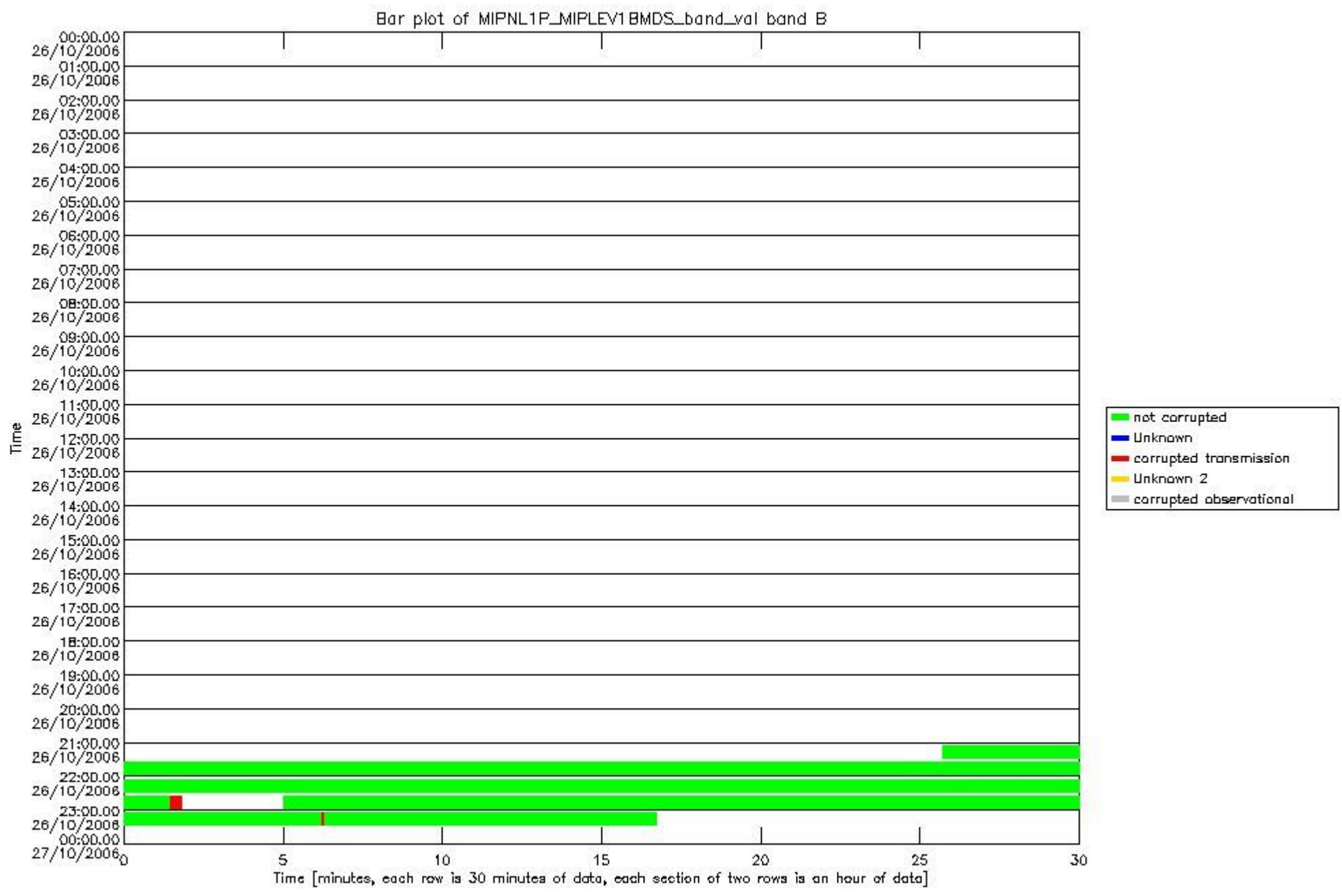
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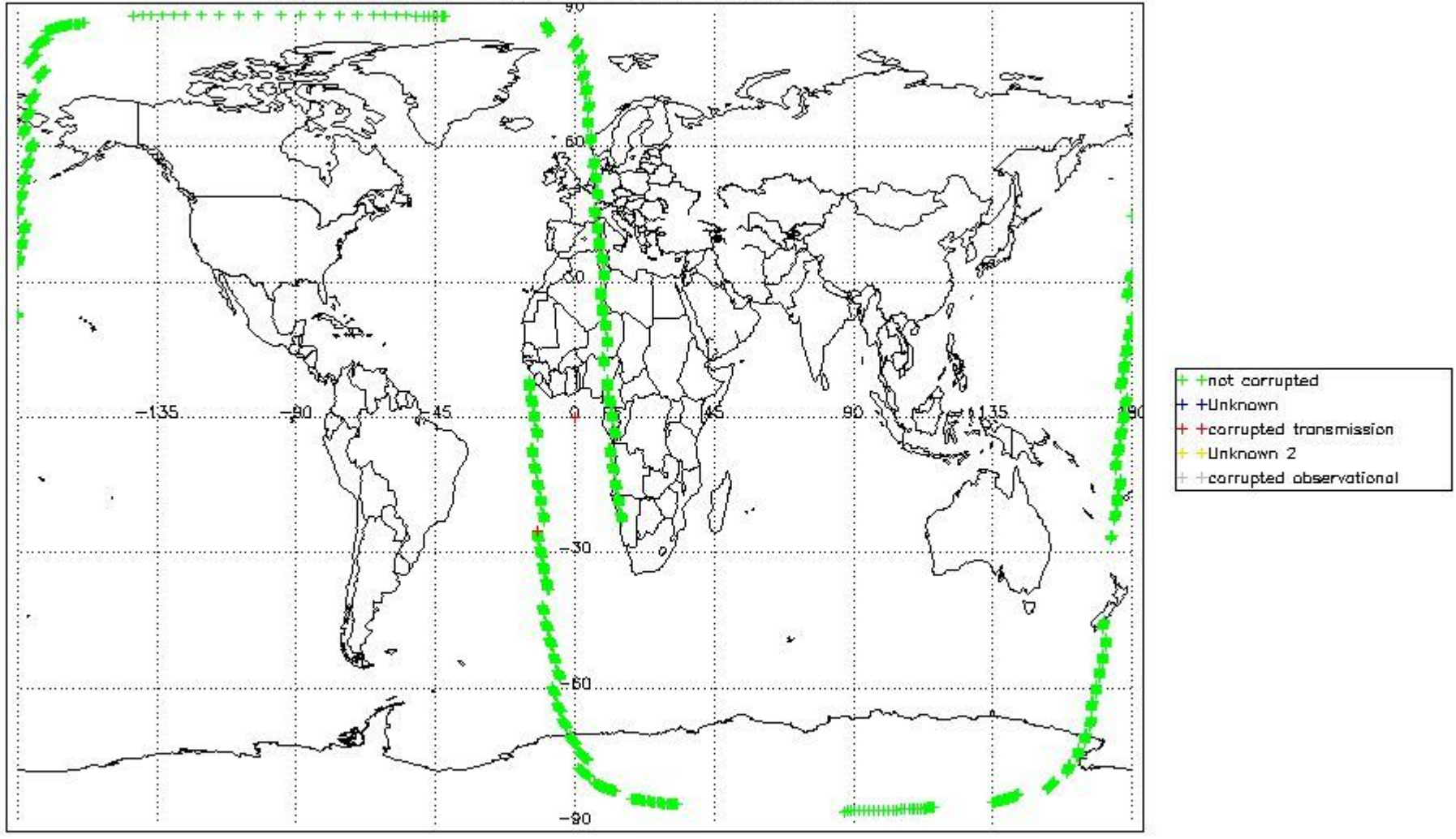
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



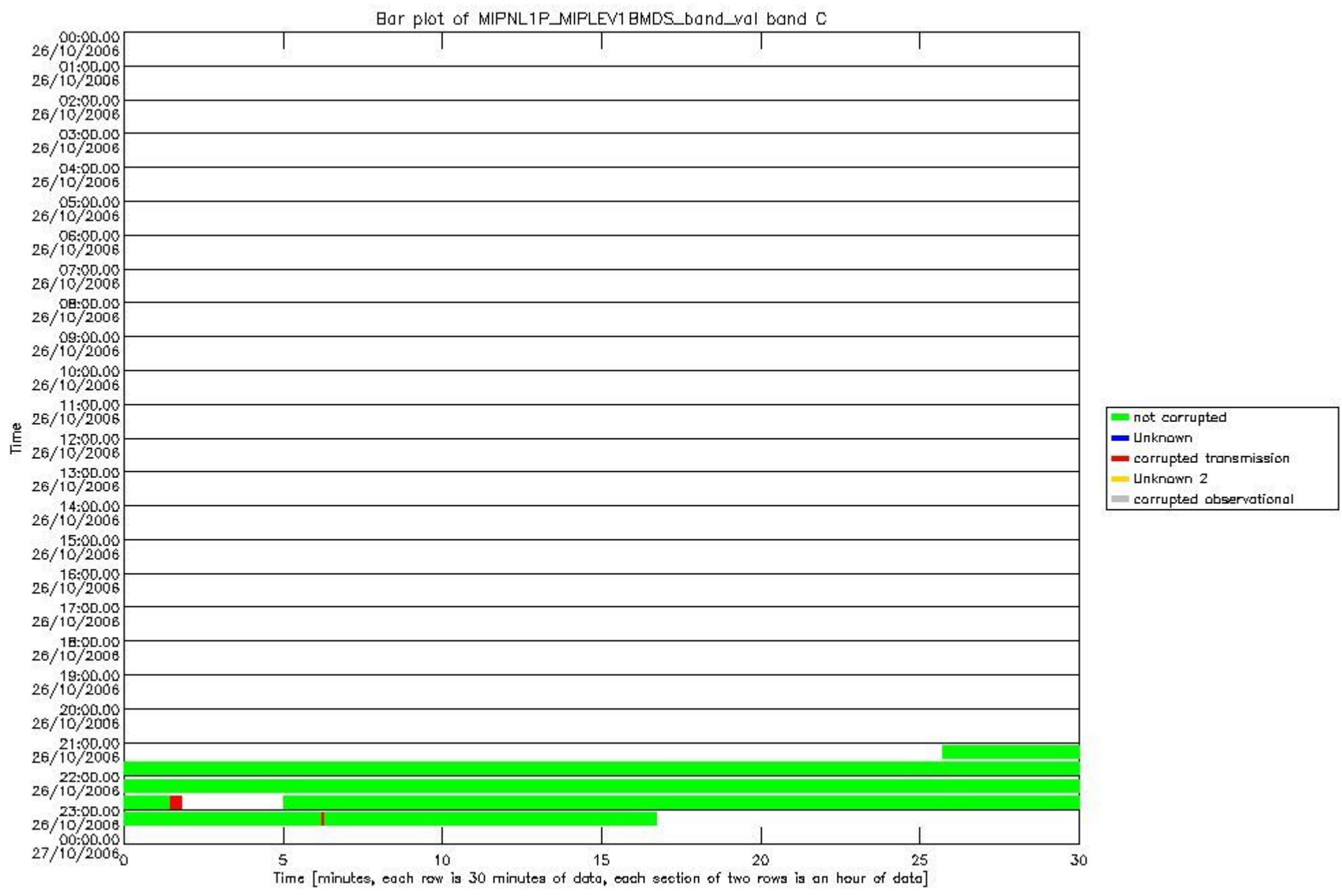
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_33.PNG



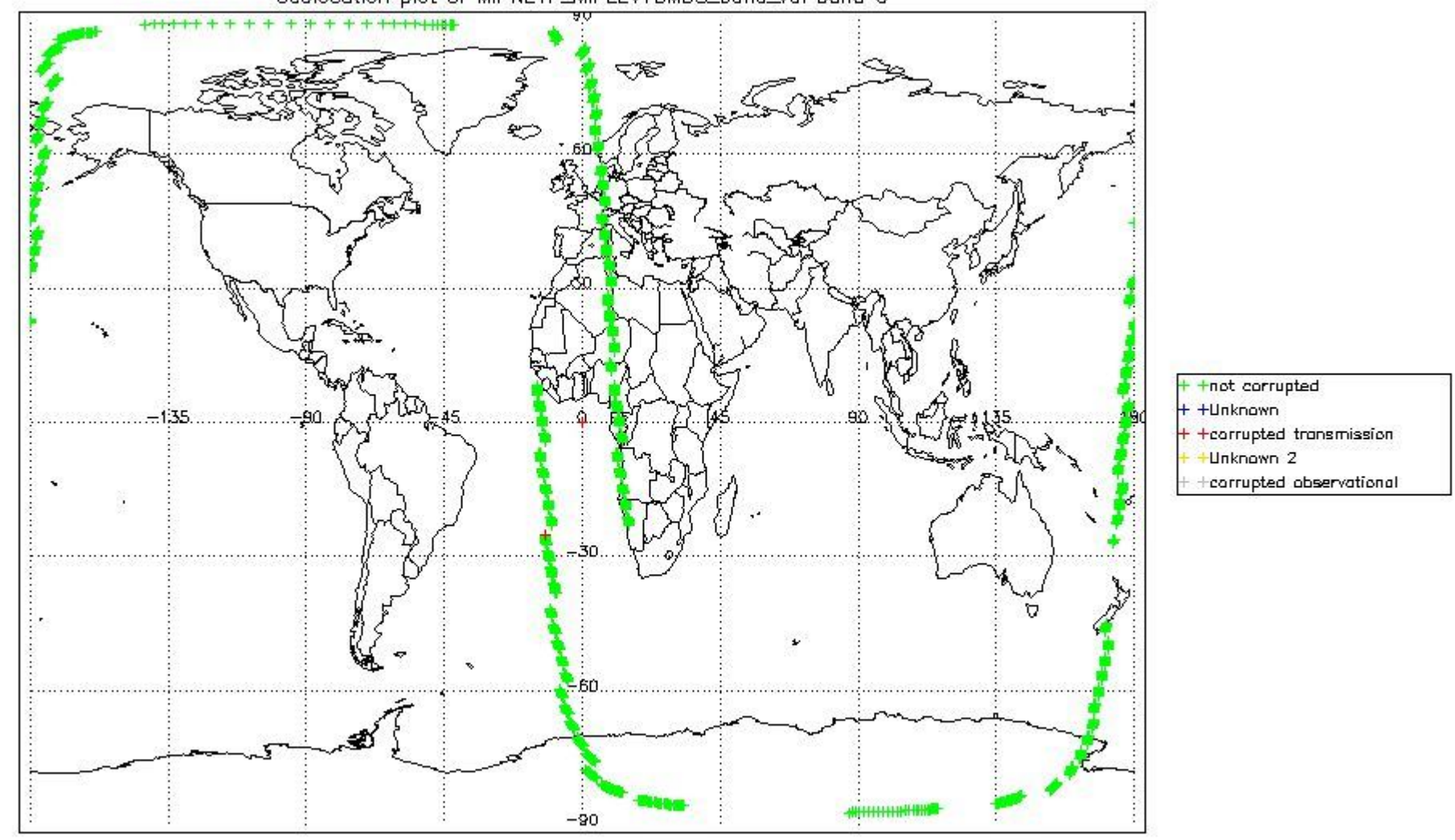
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B



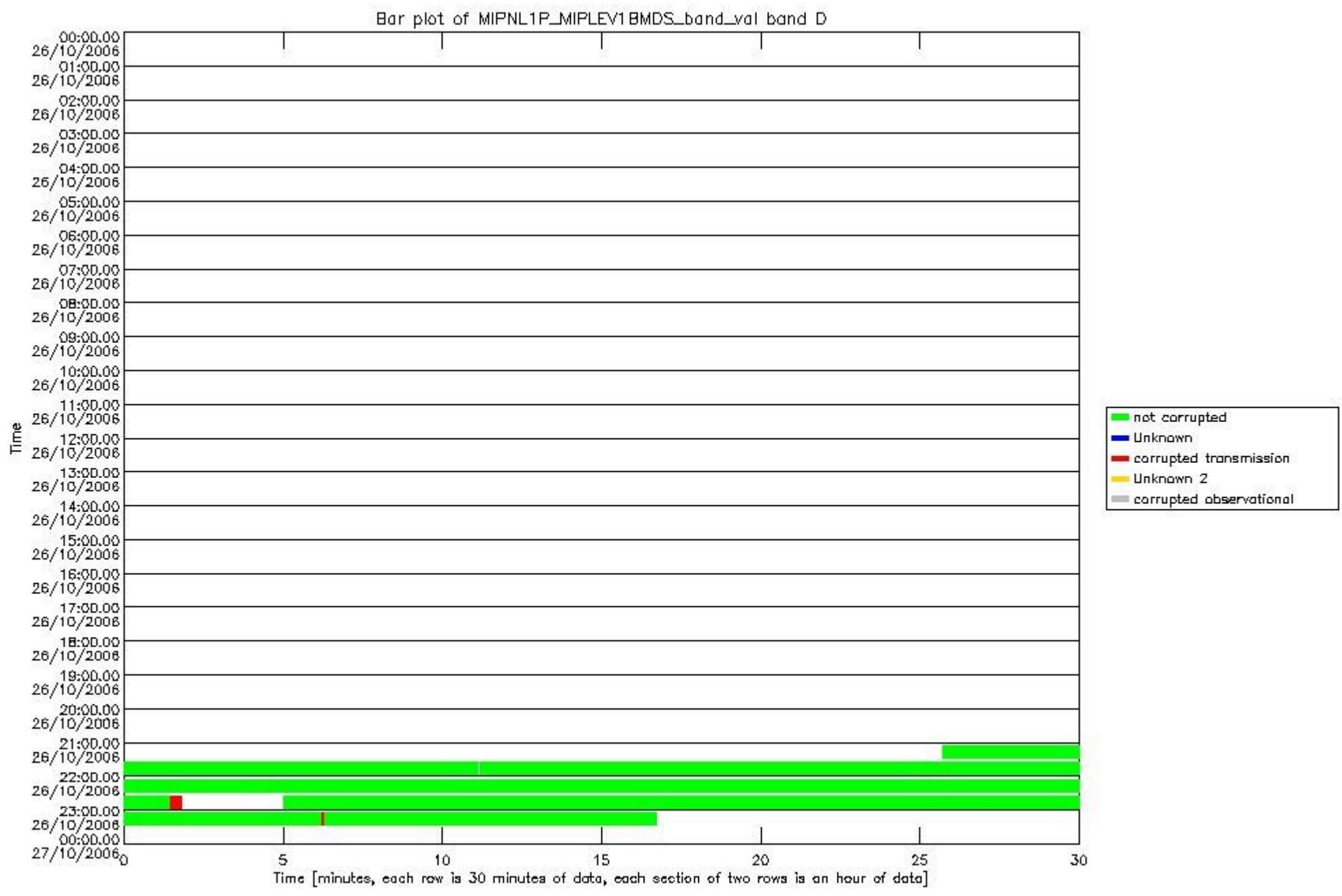
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_35.PNG



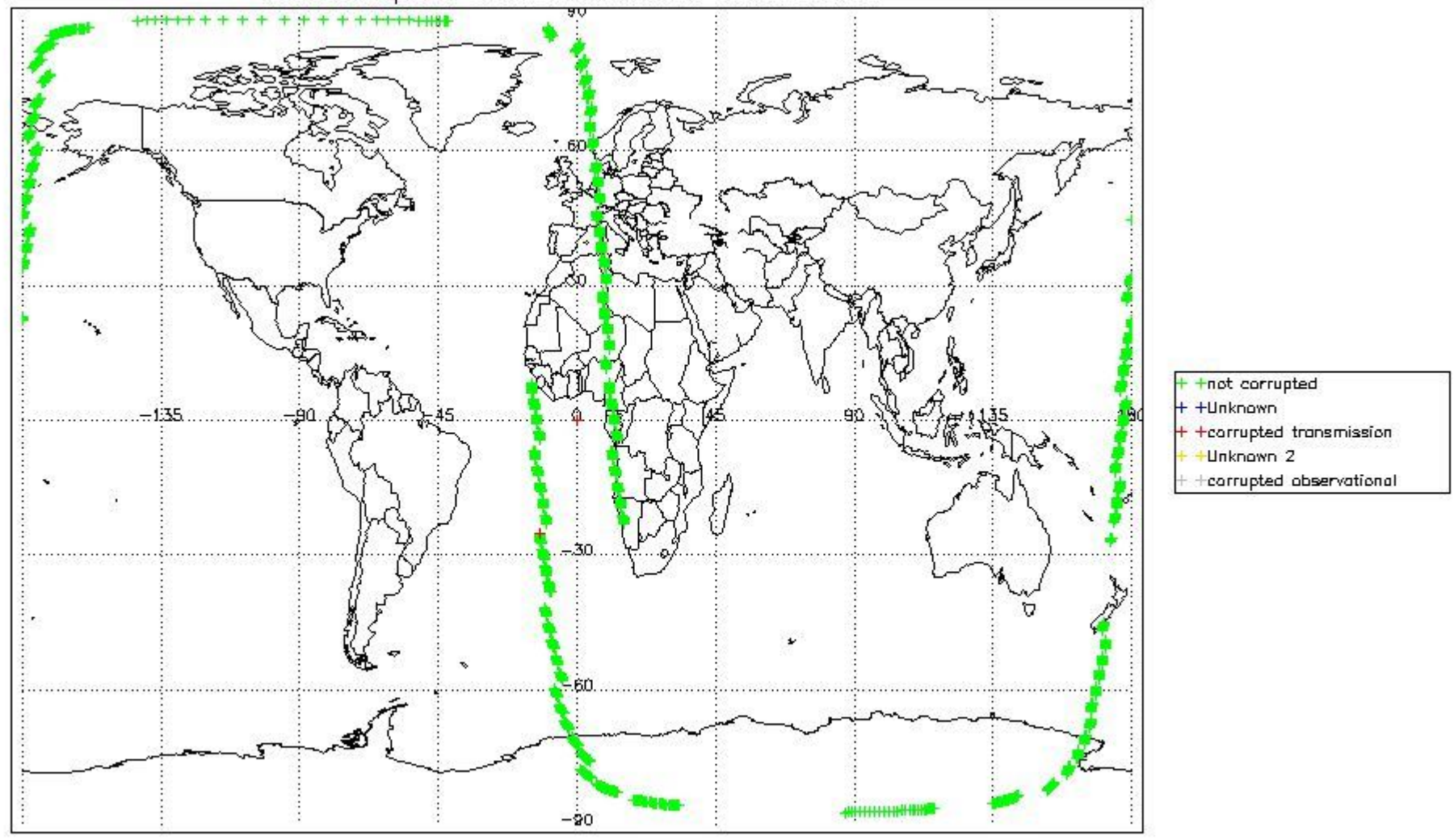
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_37.PNG

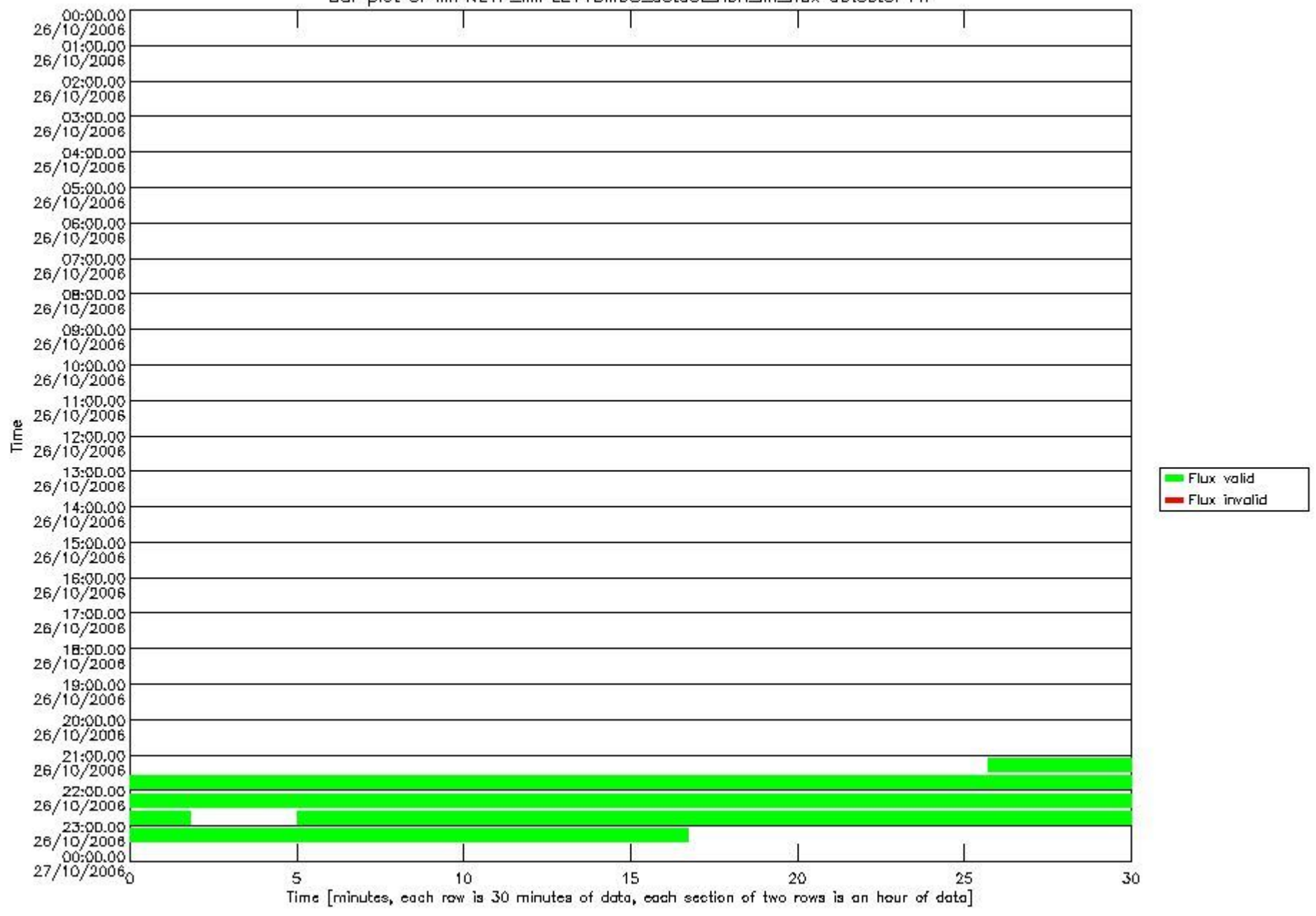


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D

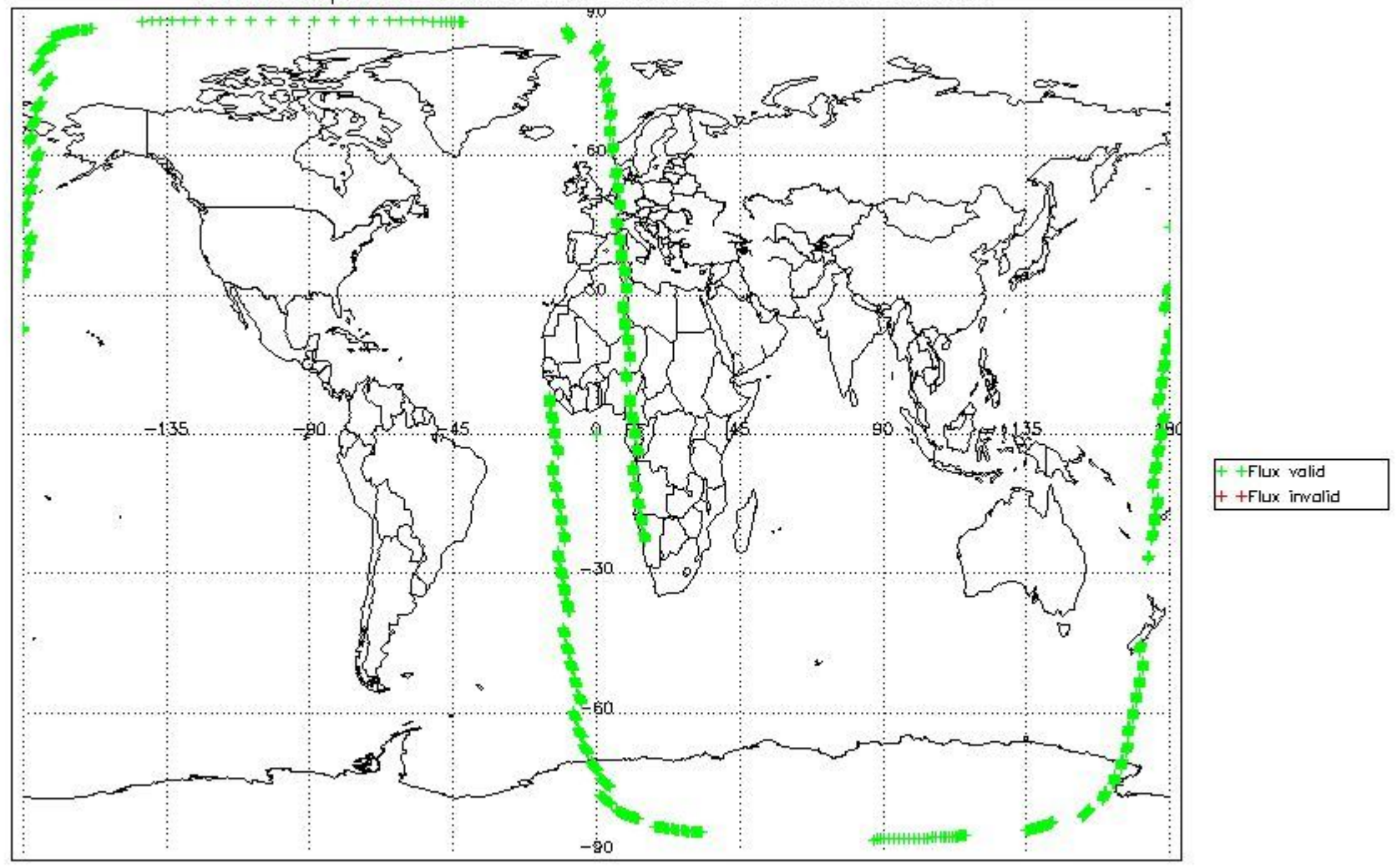


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_39.PNG

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_jin_flux detector A1

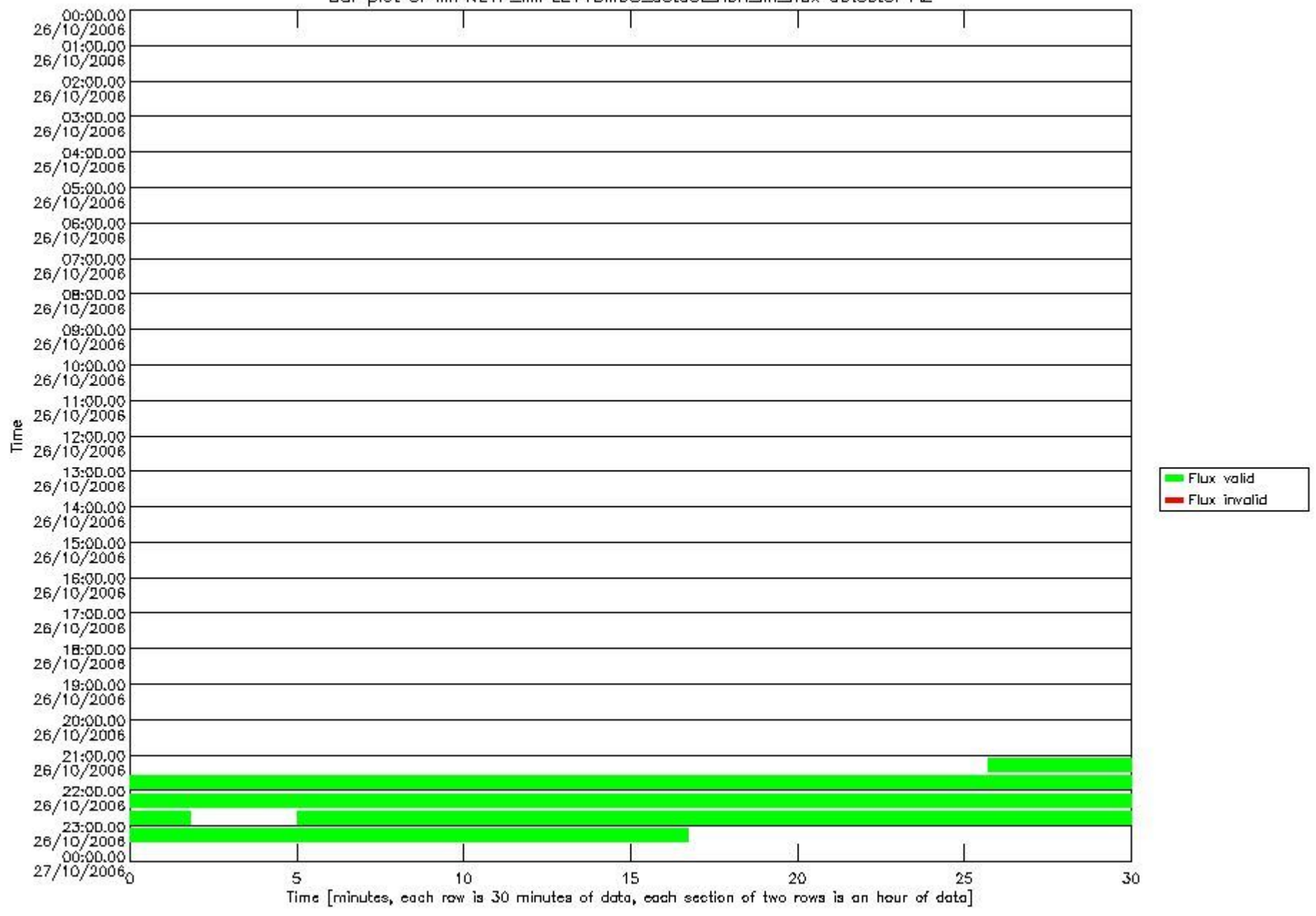


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A1

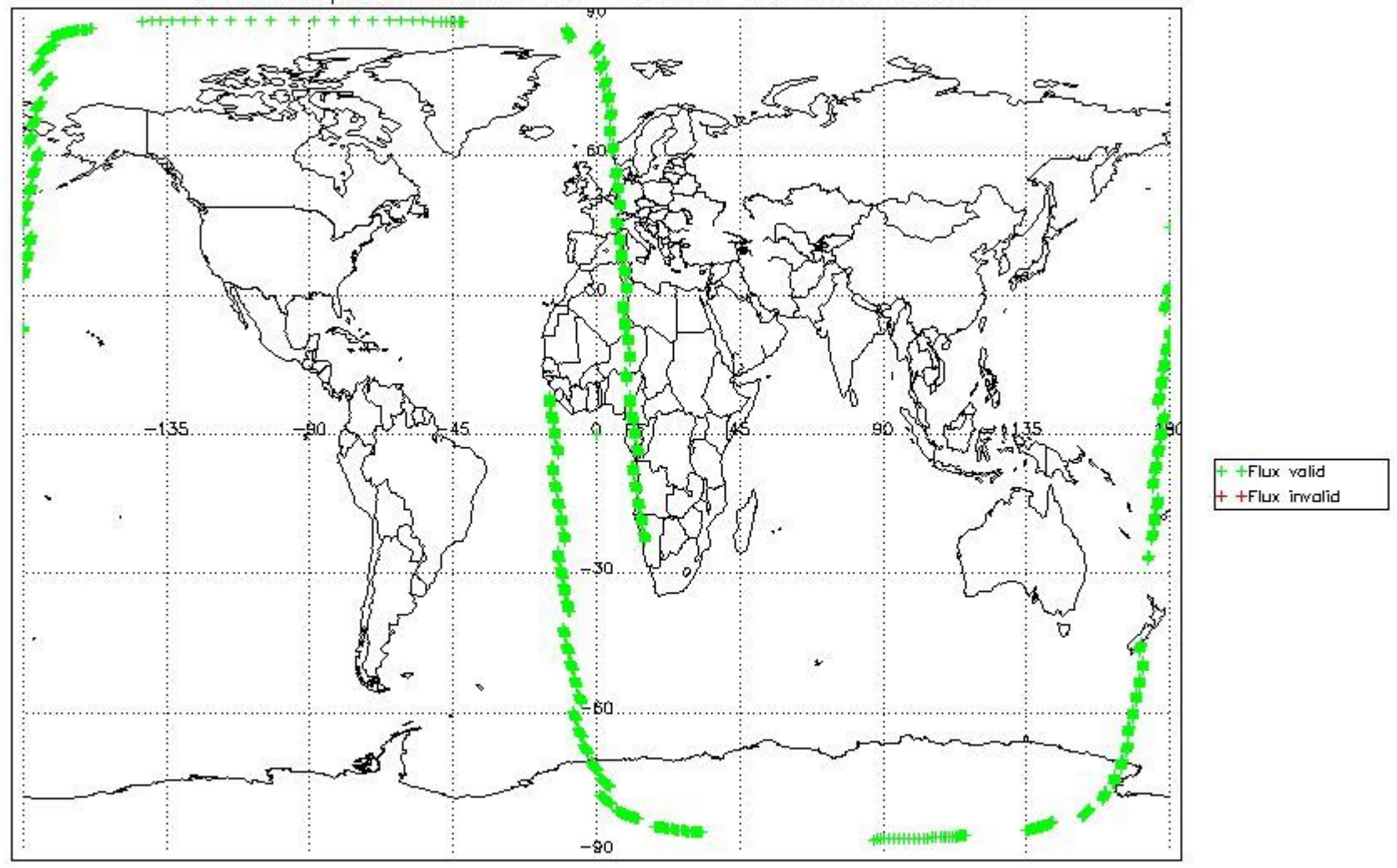


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_41.PNG

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_jin_flux detector A2

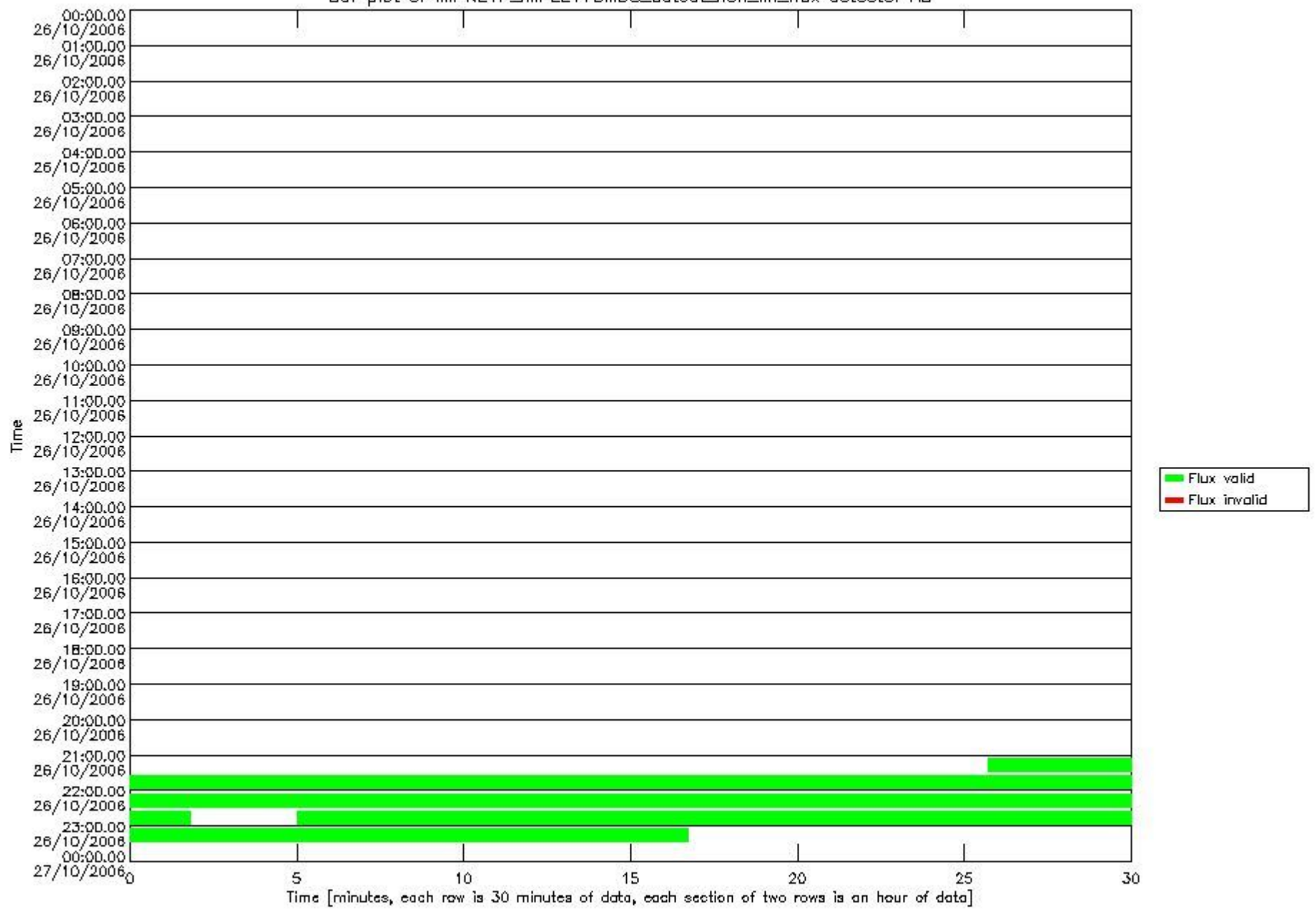


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A2

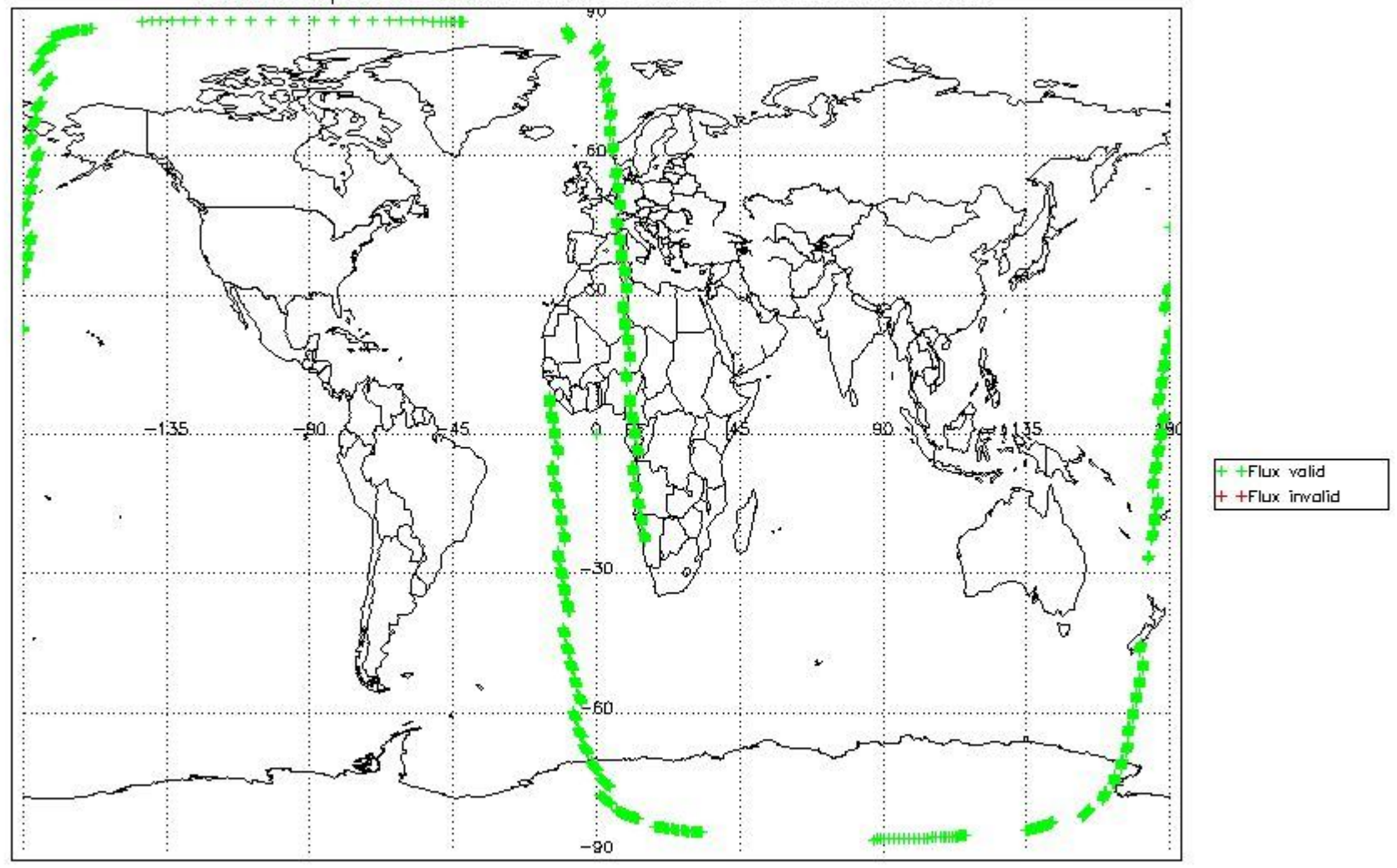


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_43.PNG

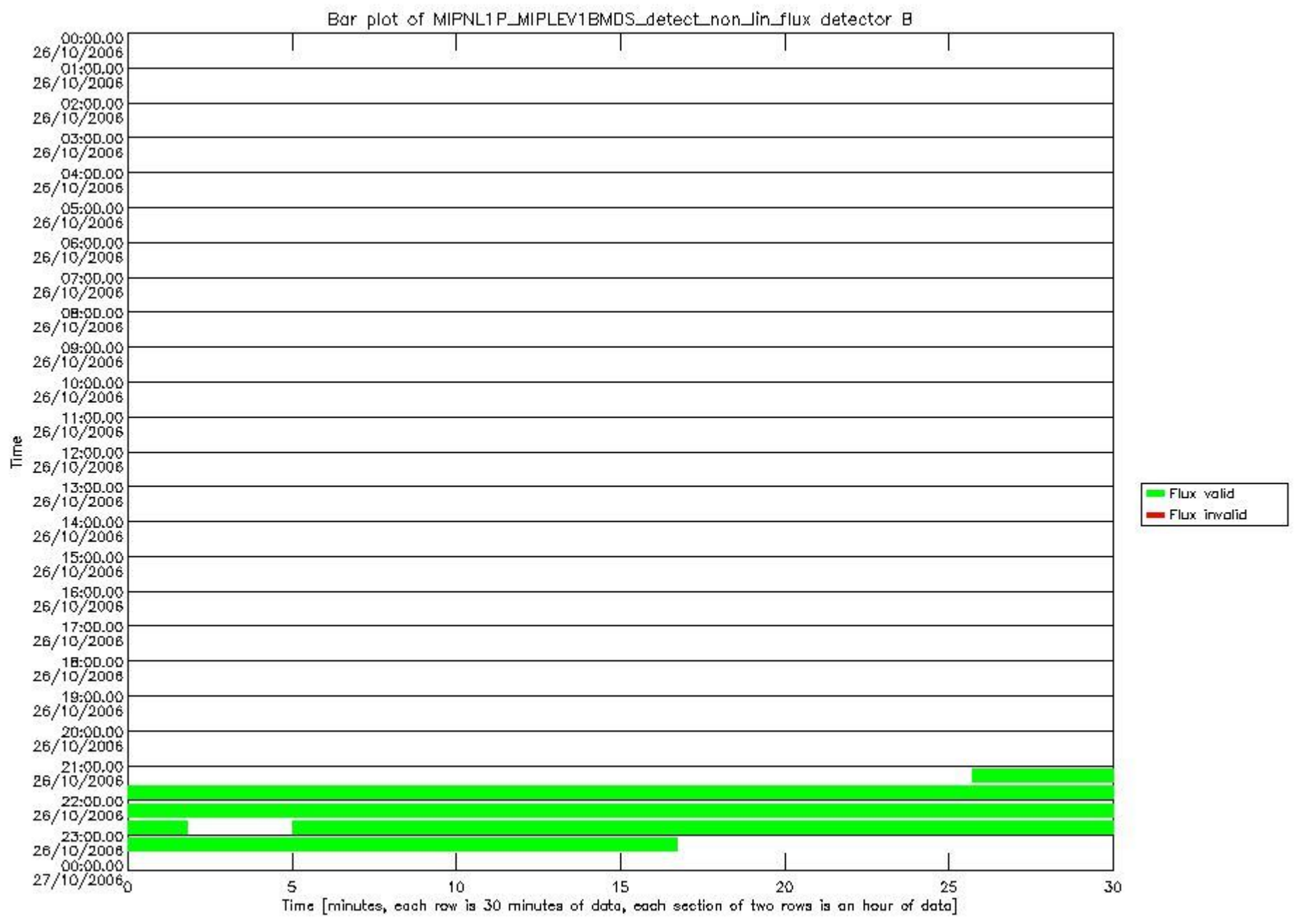
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB

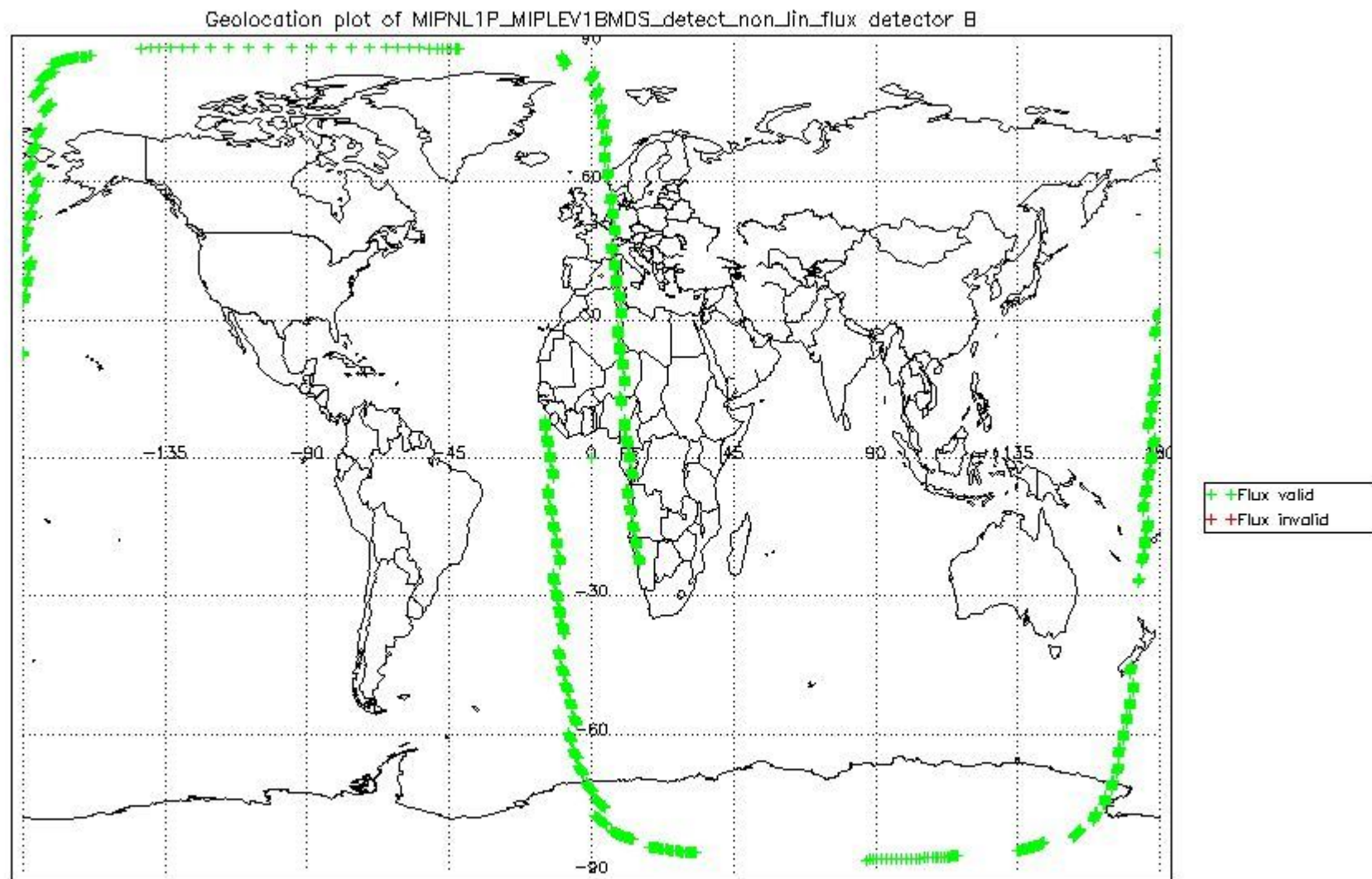


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_45.PNG





mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_47.PNG

1.2.3 Scan information ADS

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

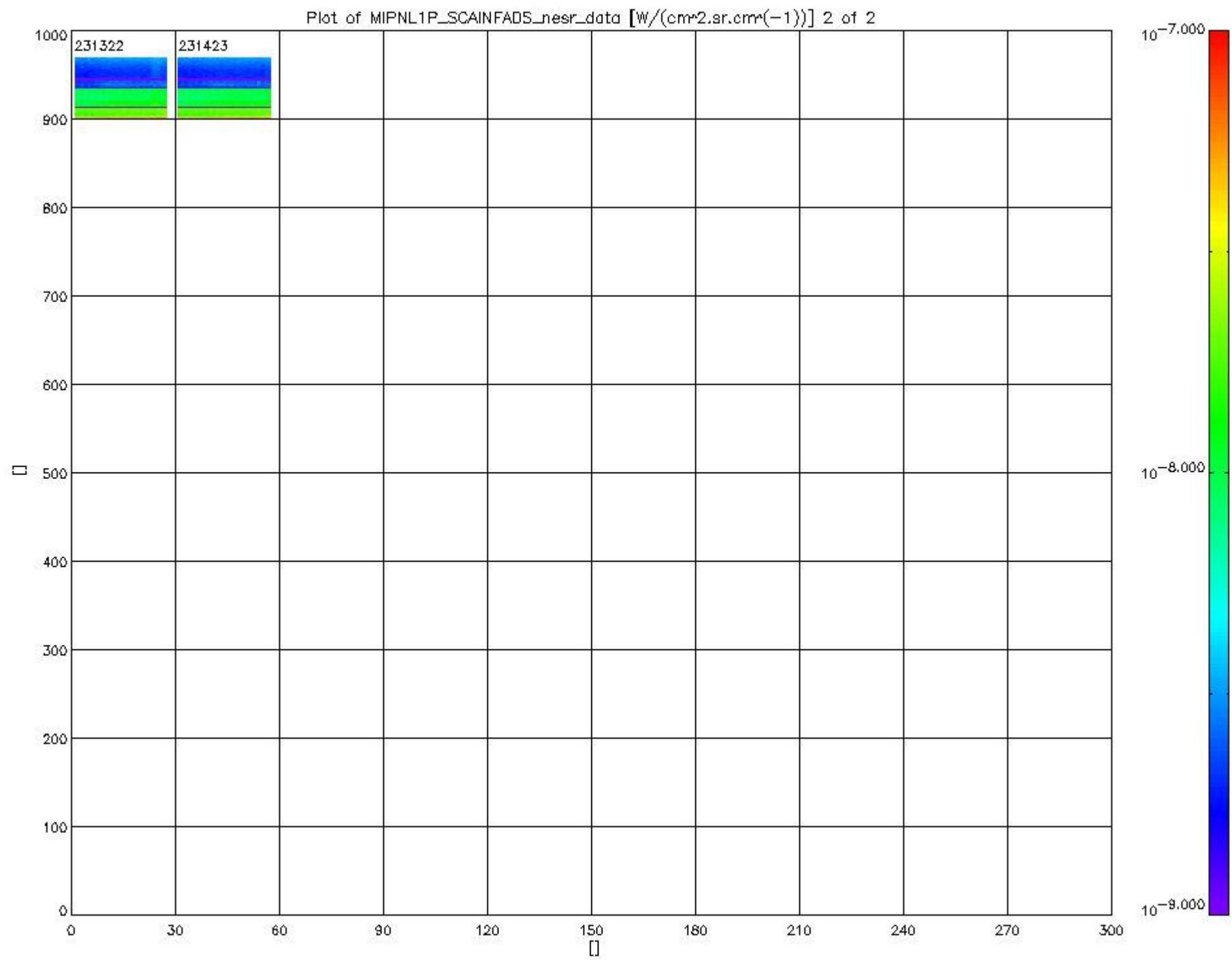
The horizontal axis represents the sweep ID (starts at 1). A maximum of 19 sweeps per scan can be displayed.

The vertical axis shows the NESR data point index (starts at 0), which relates to wavenumber. A maximum of 200 wavenumber-points per NESR-measurement can be displayed.

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.



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_48.PNG

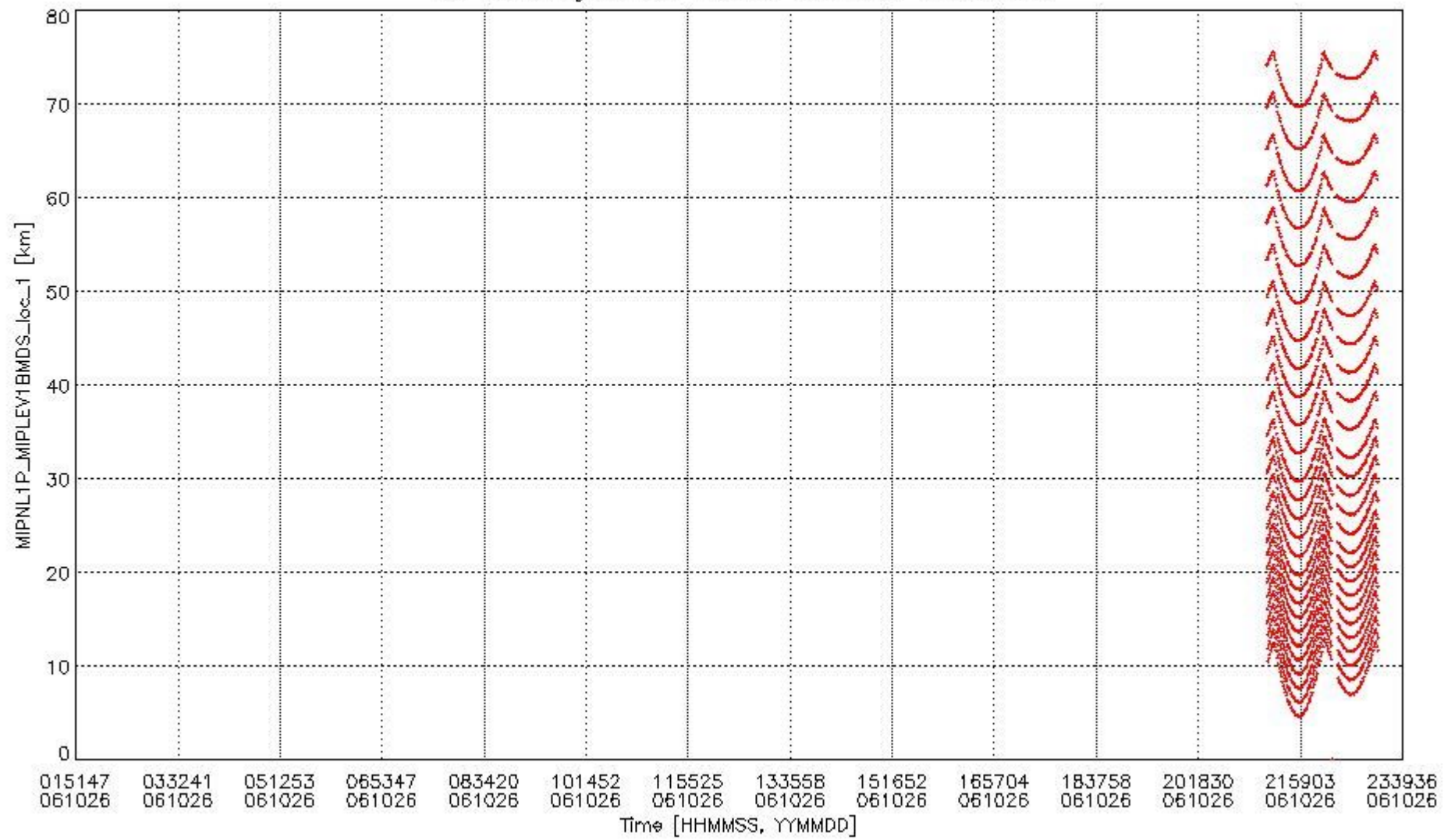


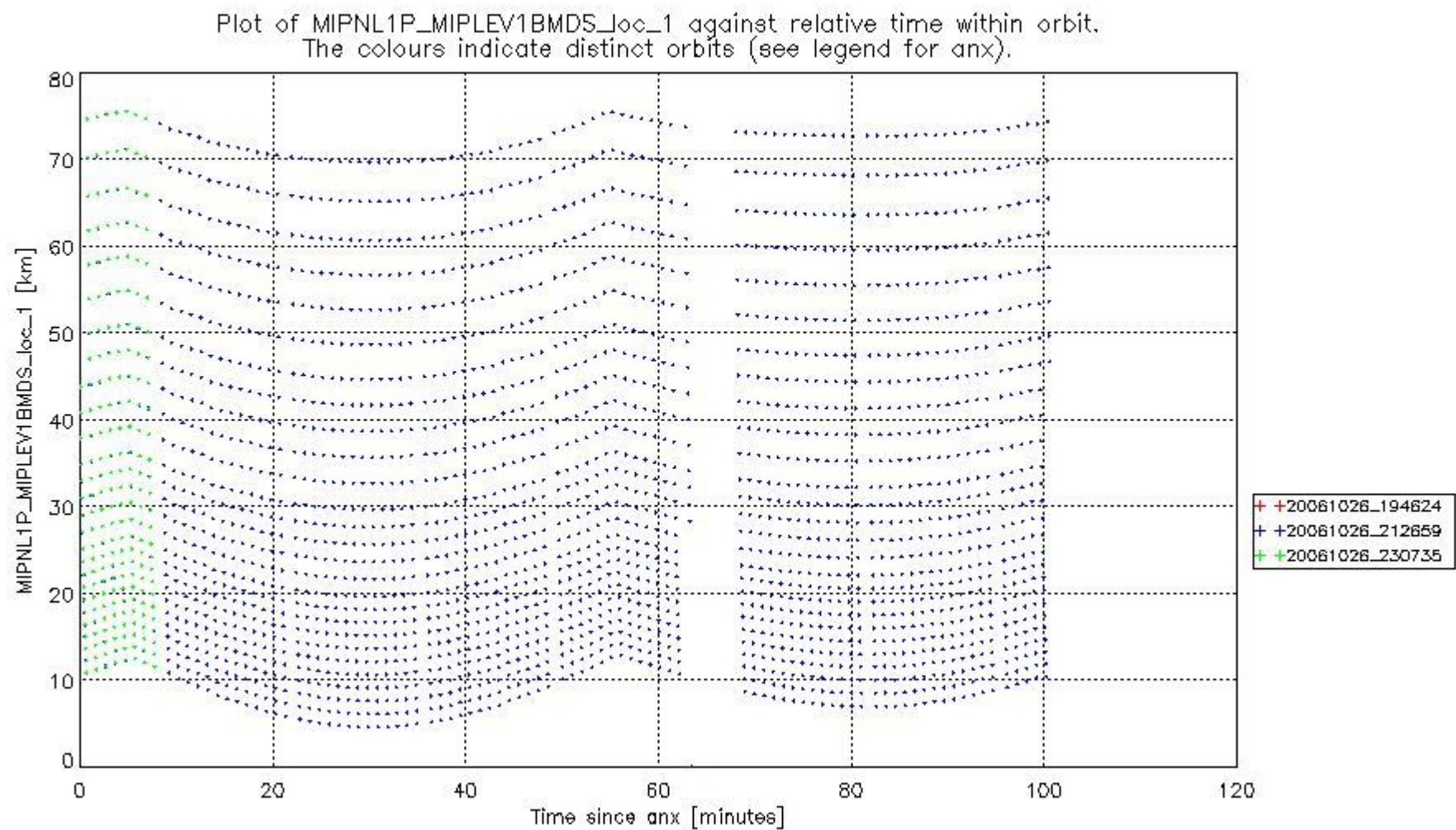
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_49.PNG

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.





mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_51.PNG

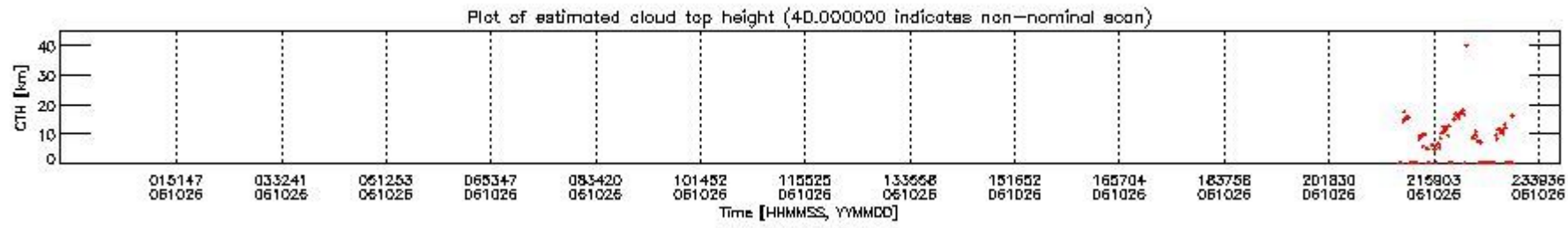
1.3.2 Cloud top height

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)

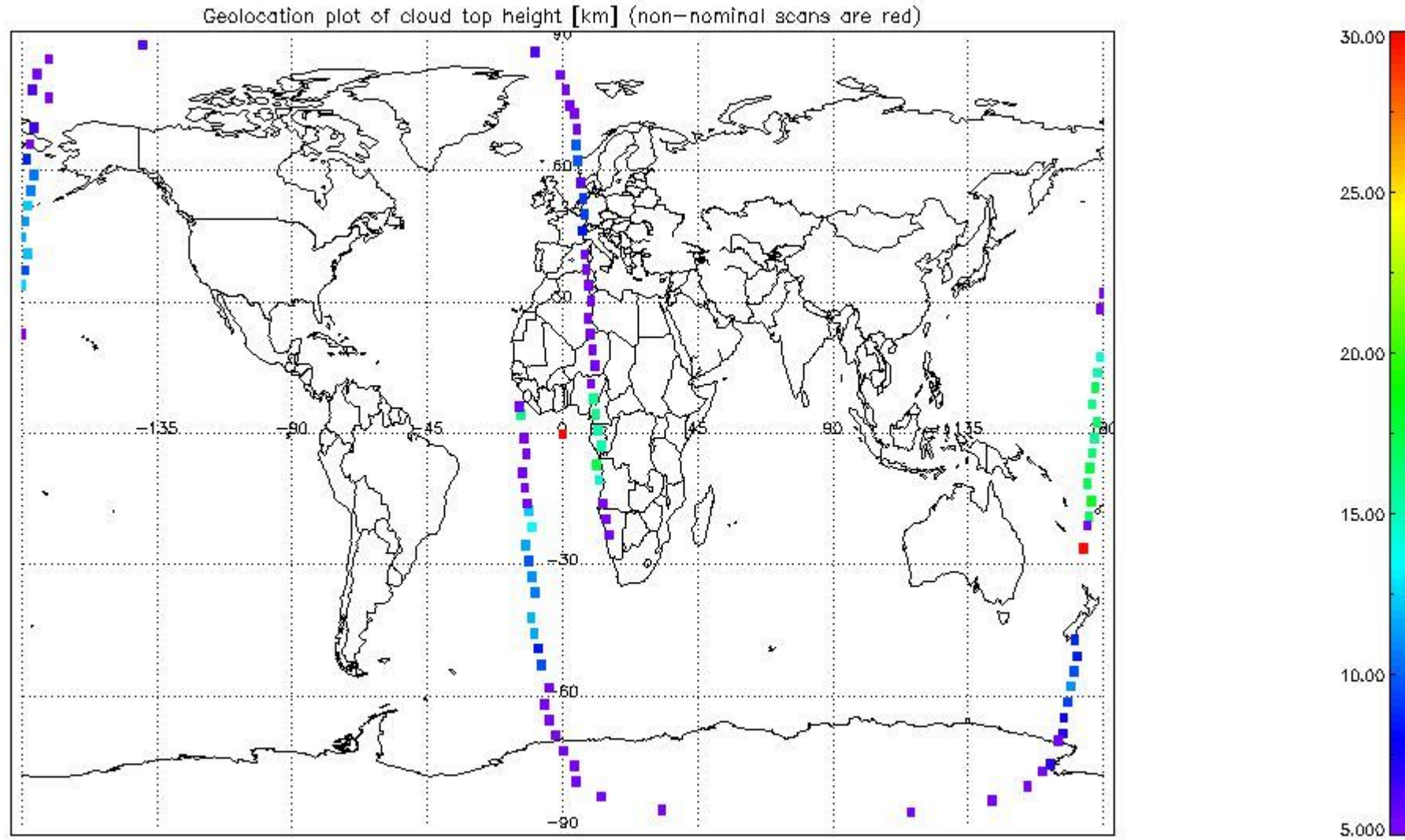
The non-nominal scans mentioned in the plots are scans that are rejected by the cloud top height algorithm for several reasons:

- 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 1651-1680
Microwindow 2 description	Average of band A pixels 2357-2390
cloud index threshold (mw1/mw2)	1.8000000
Tangent height limit	40.000000



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_52.PNG



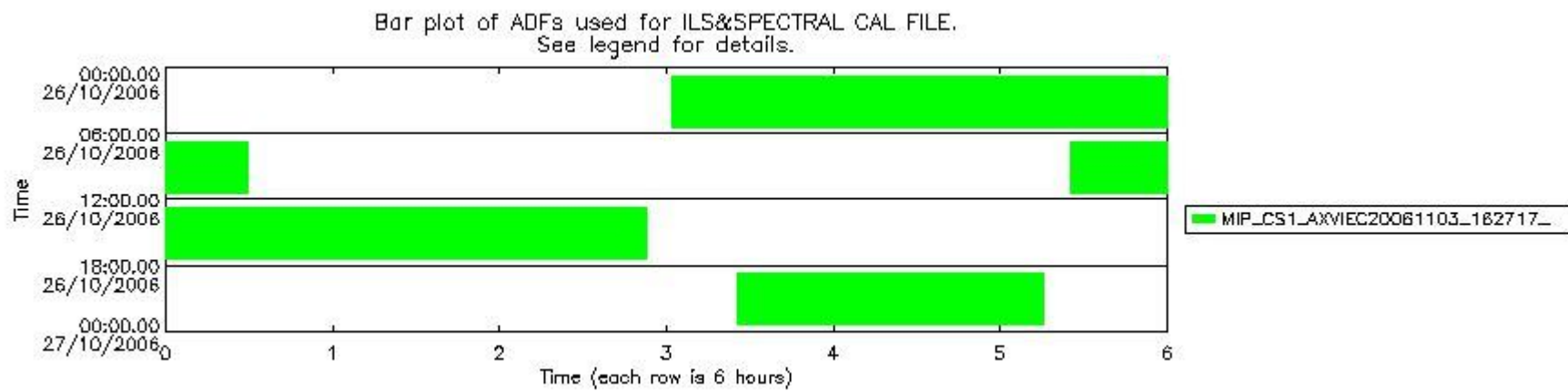
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_53.PNG

1.4 ADF monitoring

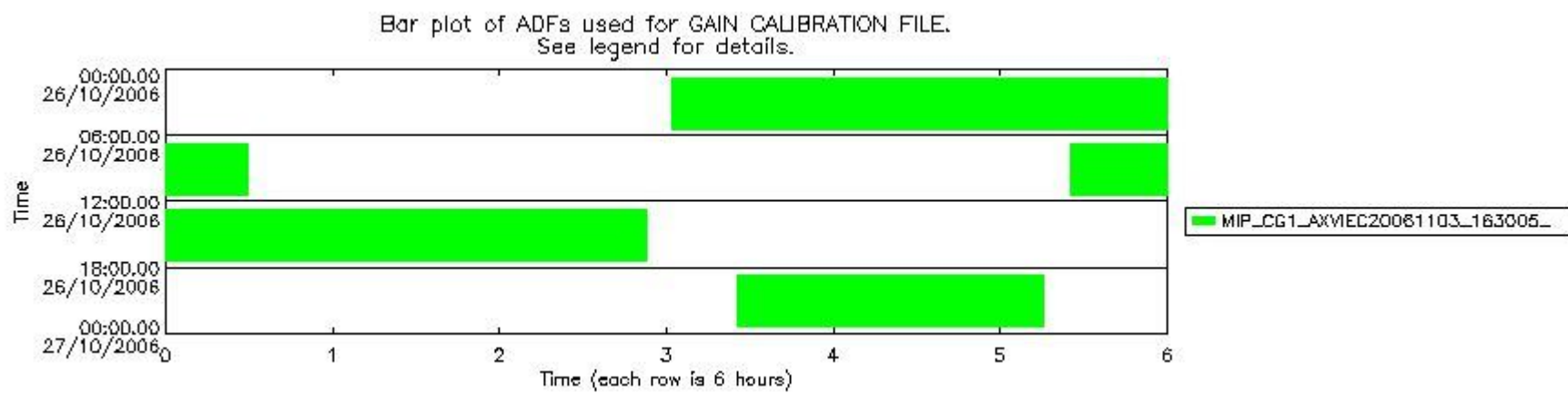
Number	ADF
0	AUX_FRO_AXVPDS20061028_235611_20061025_221000_20061028_005000
1	AUX_FRO_AXVPDS20061029_233525_20061026_221000_20061029_005000
2	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
3	MIP_CG1_AXVIEC20061103_163005_20061025_000000_20111025_000000
4	MIP_CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
5	MIP_CO1_AXVIEC20061103_162858_20061025_000000_20111025_000000
6	MIP_CS1_AXVIEC20061103_162717_20061025_000000_20111025_000000

7	MIP_MW1_AXVIEC20050627_094928_20040809_000000_20090809_000000
8	MIP_PS1_AXVIEC20050627_100609_20040809_000000_20090809_000000

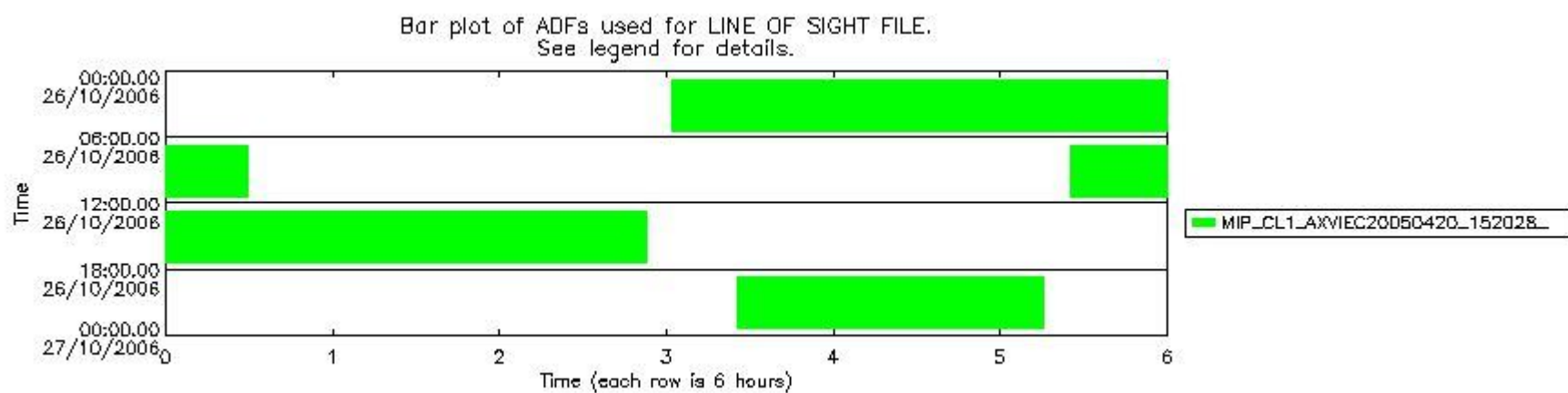
Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL_1PPDPA20061026_030246_000057512052_00233_24335_1134.N1	6	3	4	2	5	7	8	0
1	MIP_NL_1PPDPA20061026_043943_000060302052_00234_24336_1120.N1	6	3	4	2	5	7	8	0
2	MIP_NL_1PPDPA20061026_062019_000005402052_00235_24337_1142.N1	6	3	4	2	5	7	8	0
3	MIP_NL_1PPDPA20061026_112546_000057502052_00238_24340_1127.N1	6	3	4	2	5	7	8	0
4	MIP_NL_1PPDPA20061026_130242_000060302052_00239_24341_1125.N1	6	3	4	2	5	7	8	0
5	MIP_NL_1PPDPA20061026_144318_000005402052_00240_24342_1141.N1	6	3	4	2	5	7	8	0
6	MIP_NL_1PPDPA20061026_212542_000060302052_00244_24346_1163.N1	6	3	4	2	5	7	8	0
7	MIP_NL_1PPDPA20061026_230618_000005402052_00245_24347_1187.N1	6	3	4	2	5	7	8	1



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_54.PNG

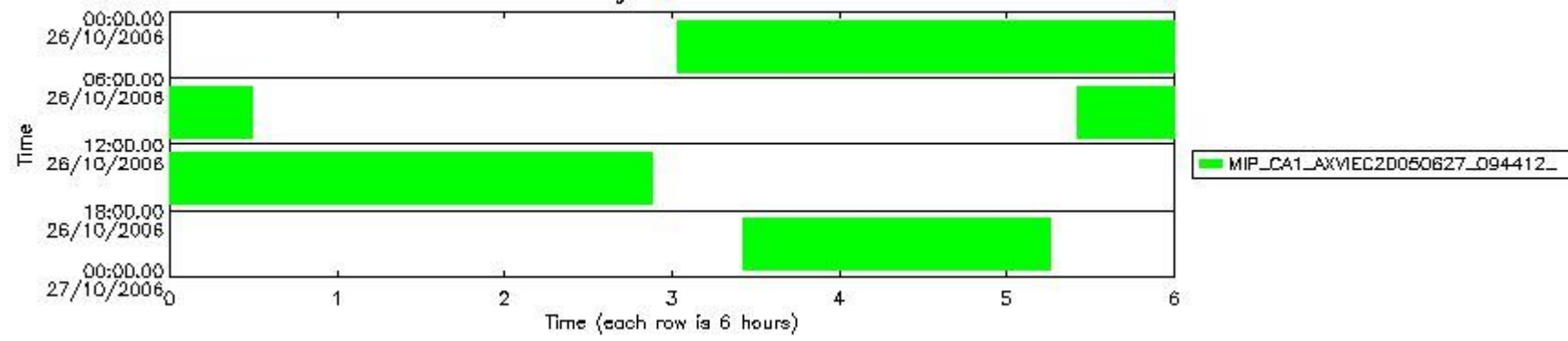


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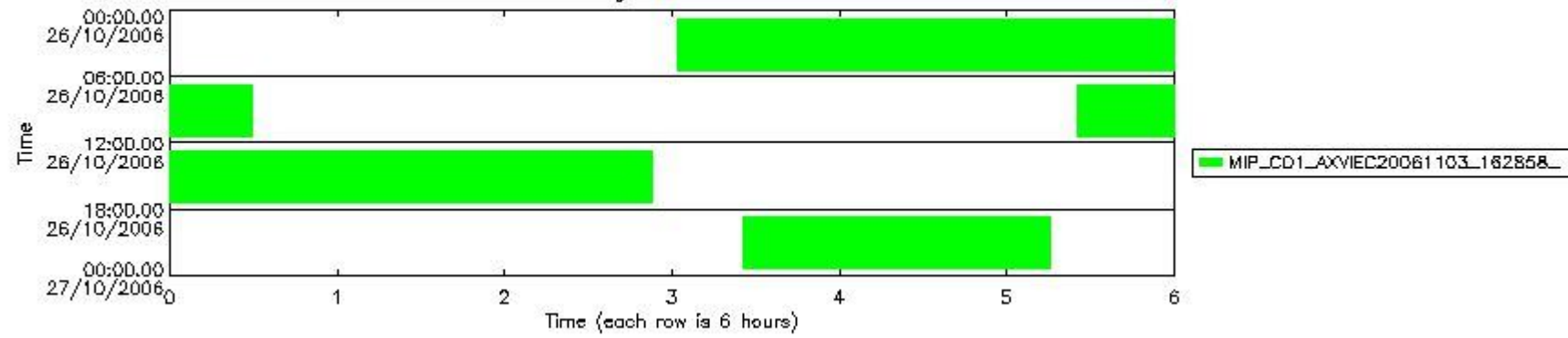
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_56.PNG

Bar plot of ADFs used for INSTRUMENT CHAR FILE.
See legend for details.



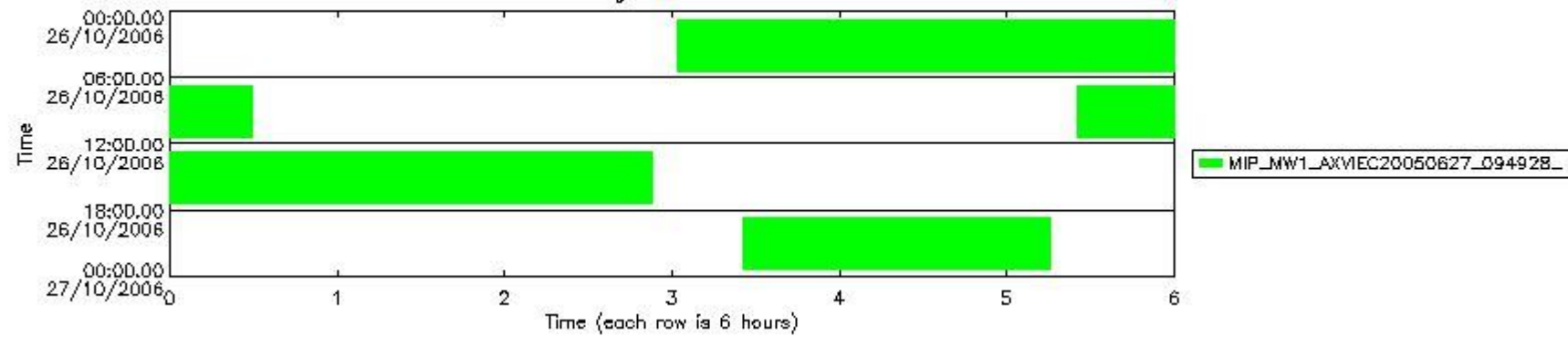
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_57.PNG

Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.



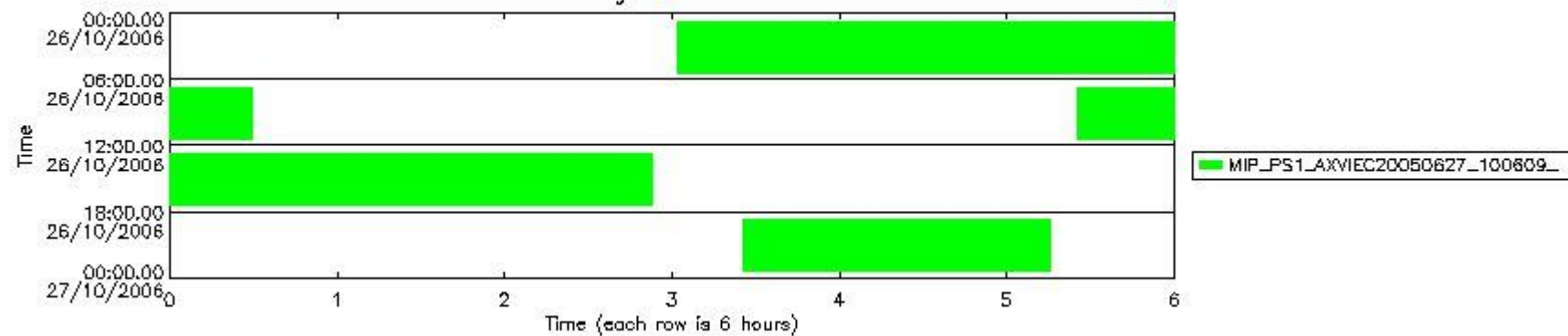
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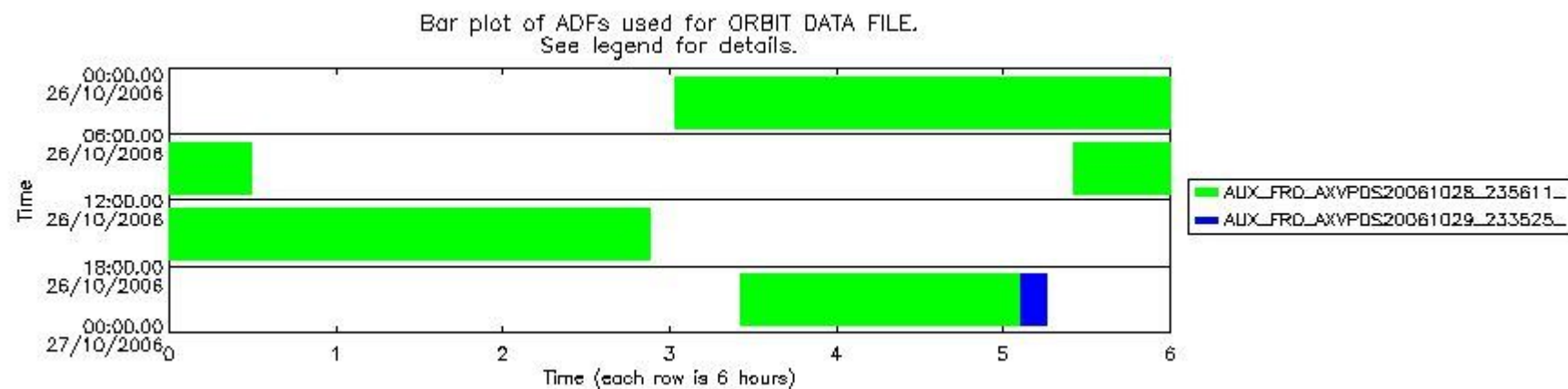
Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.



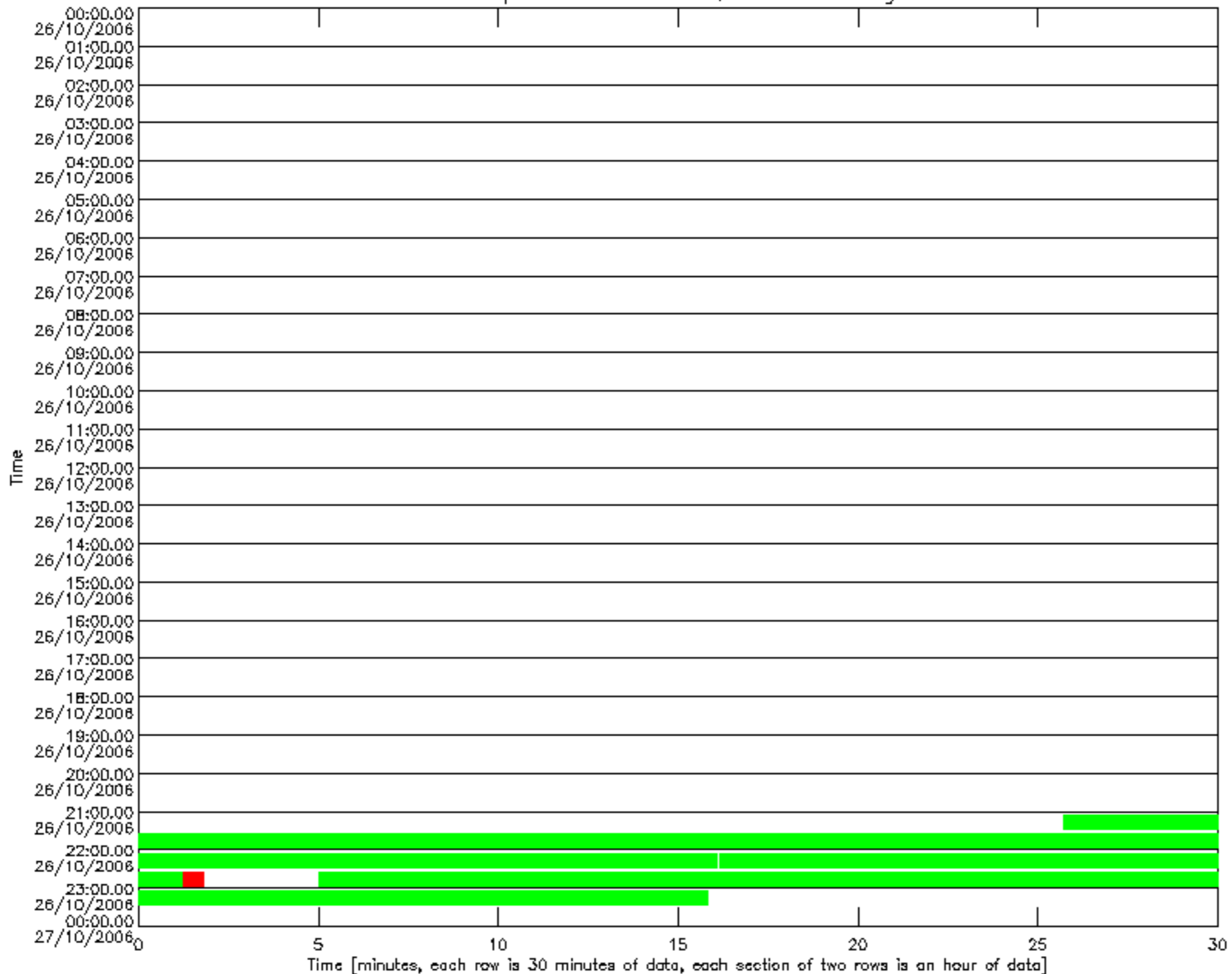
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061026_59.PNG

Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.

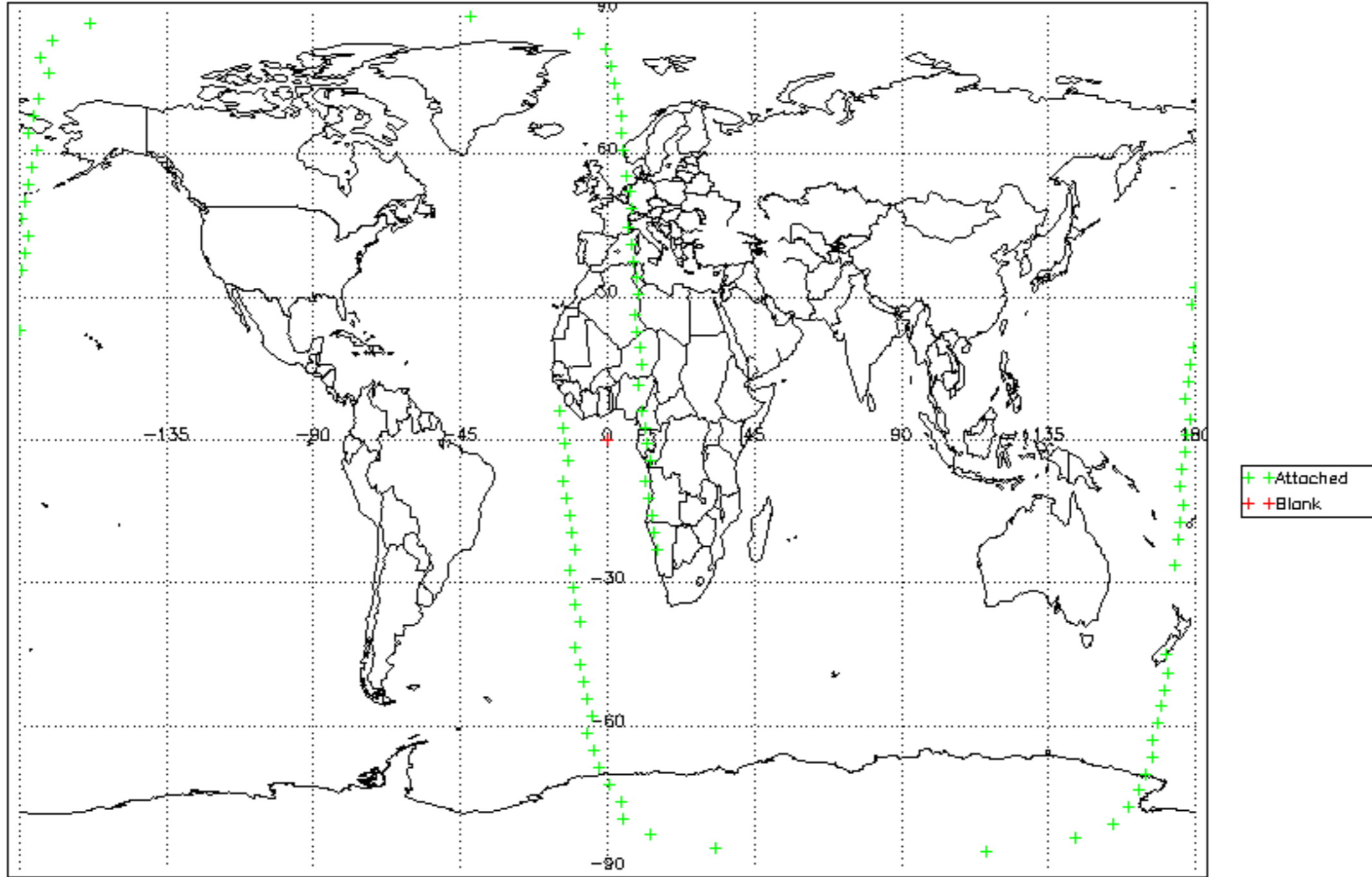


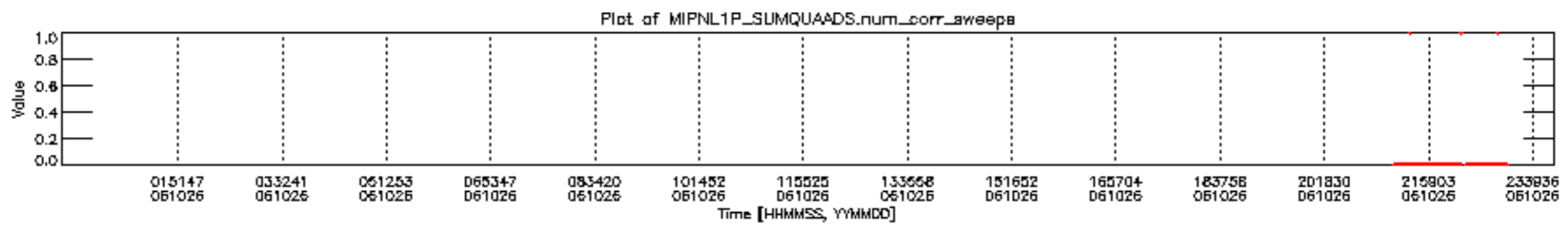


Bar plot of MIPNL1P_SUMQUAADS.attach_flag

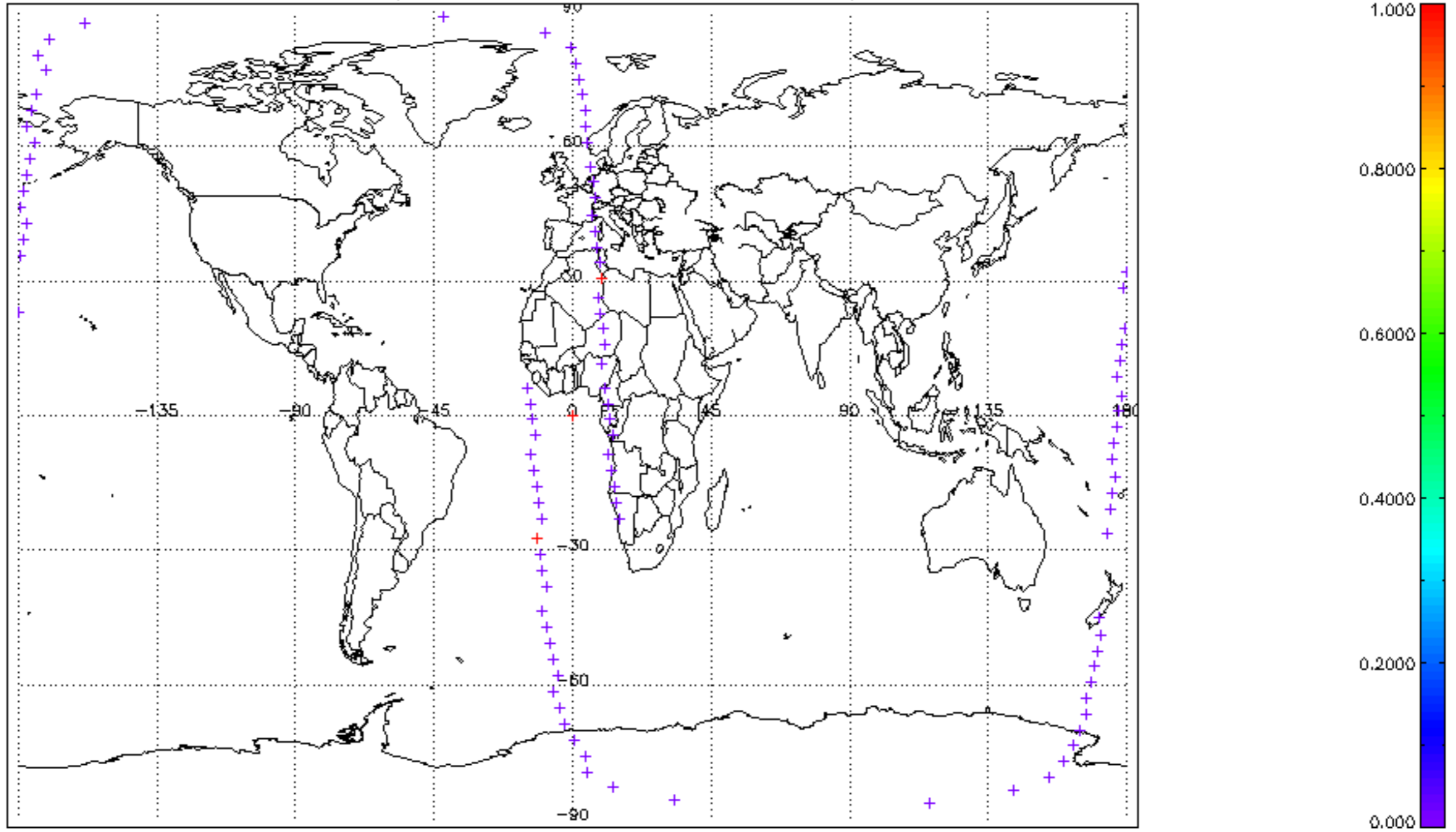


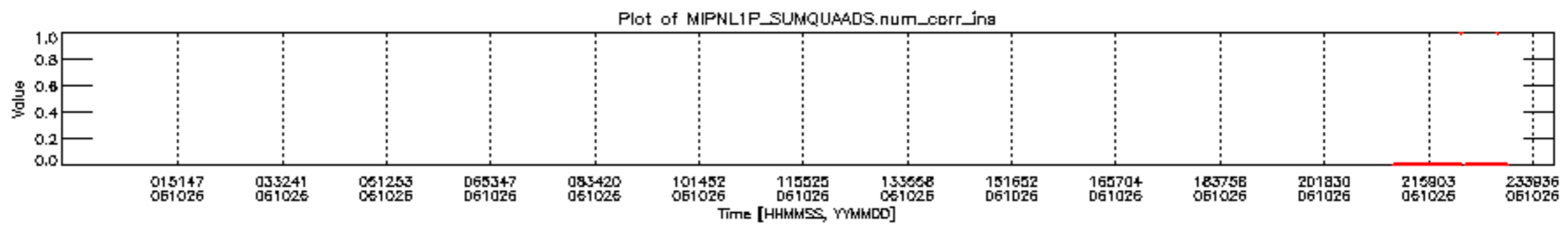
Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag



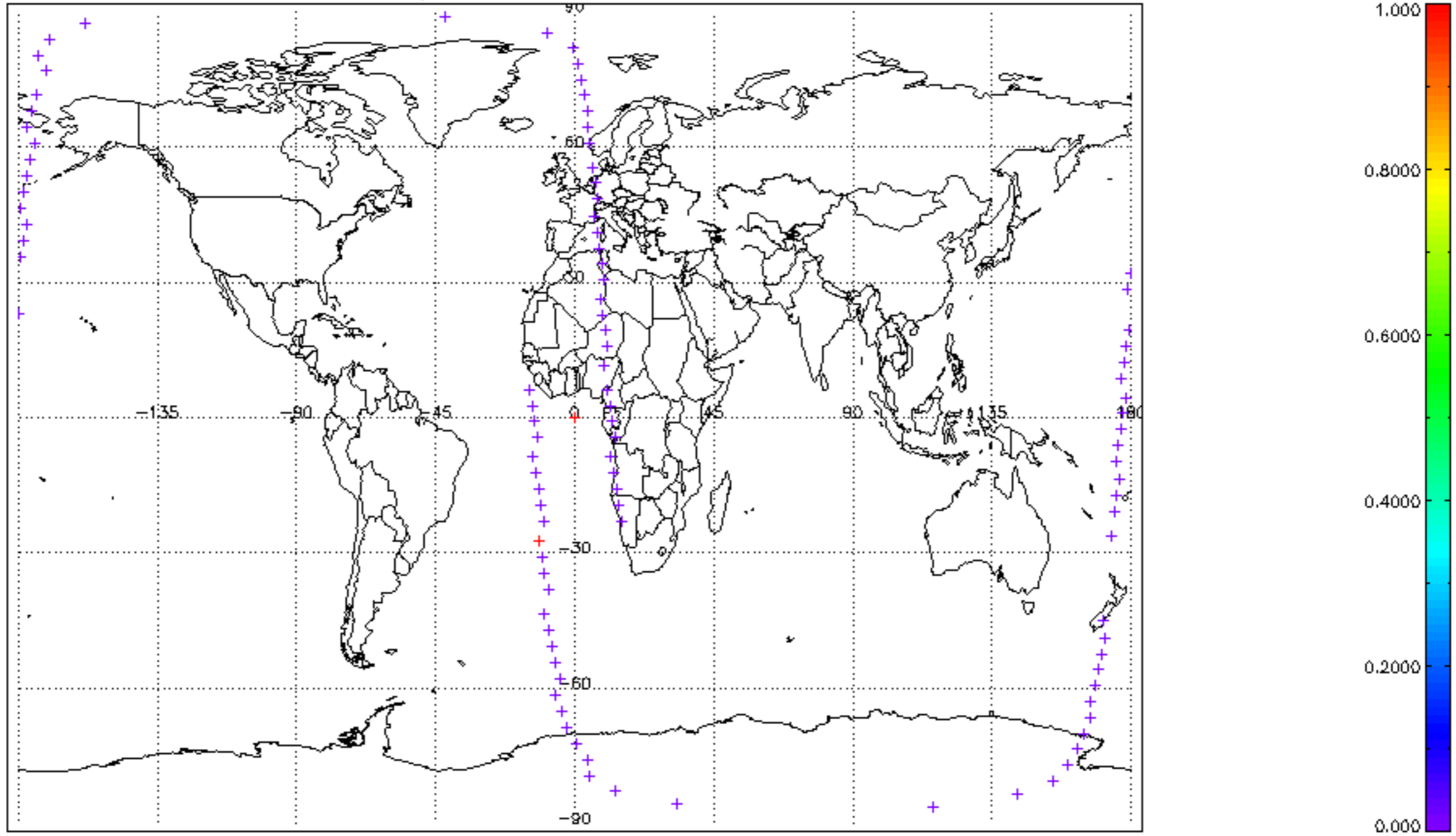


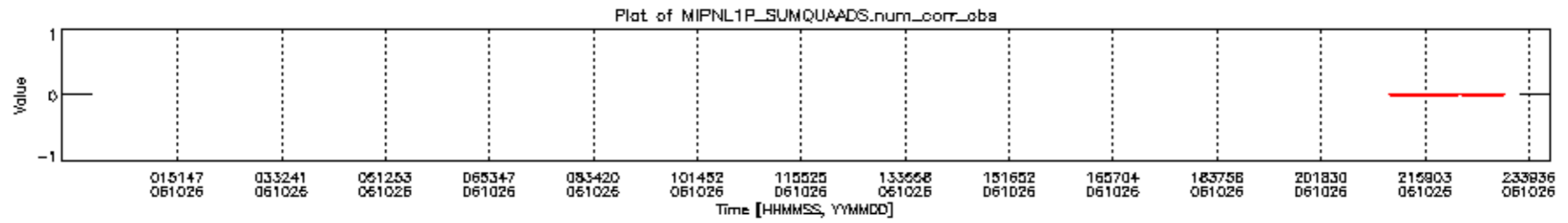
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps



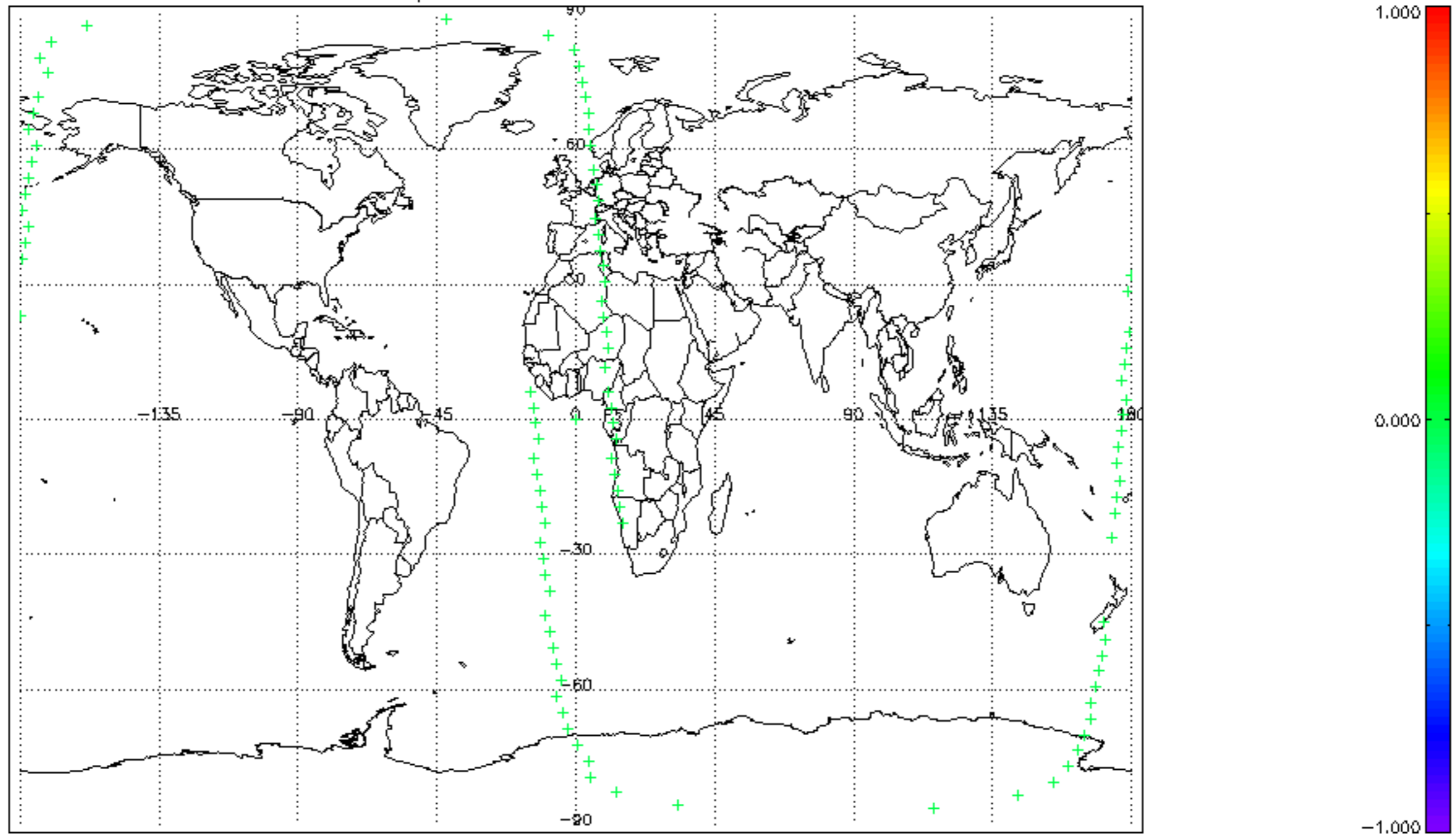


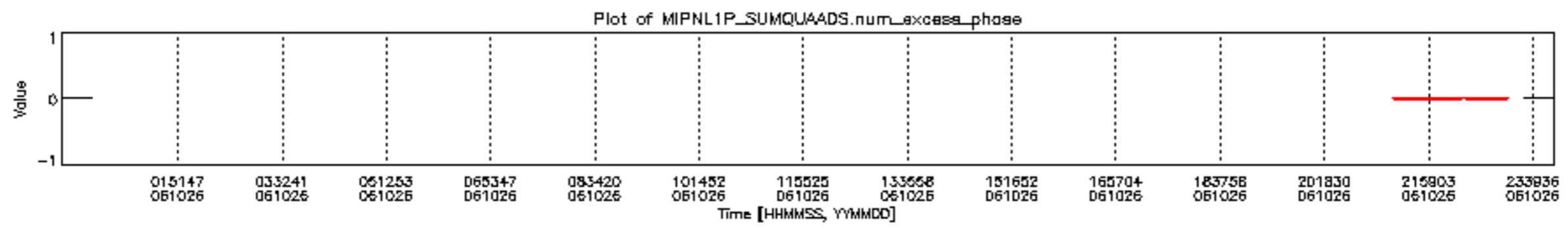
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins



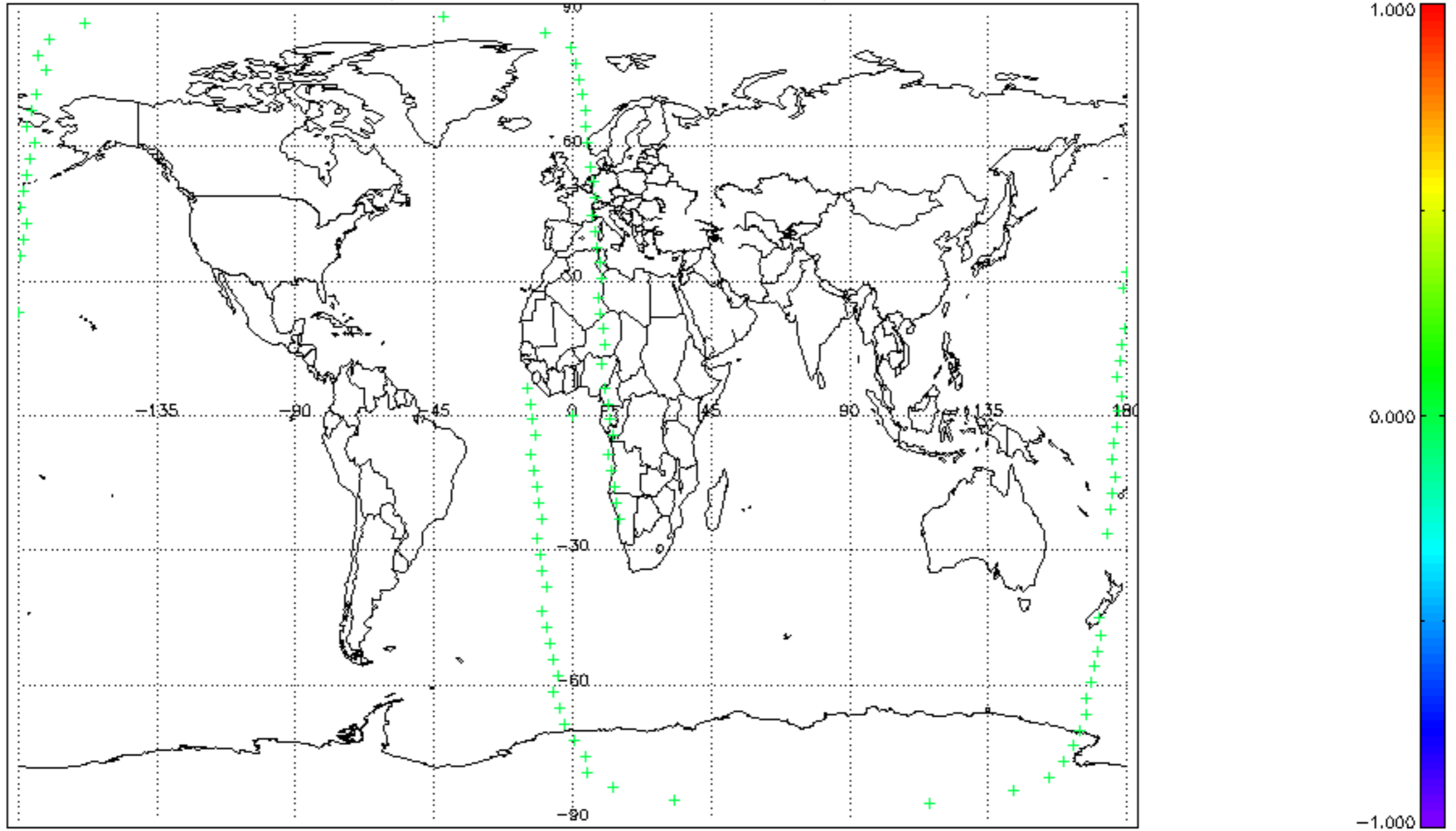


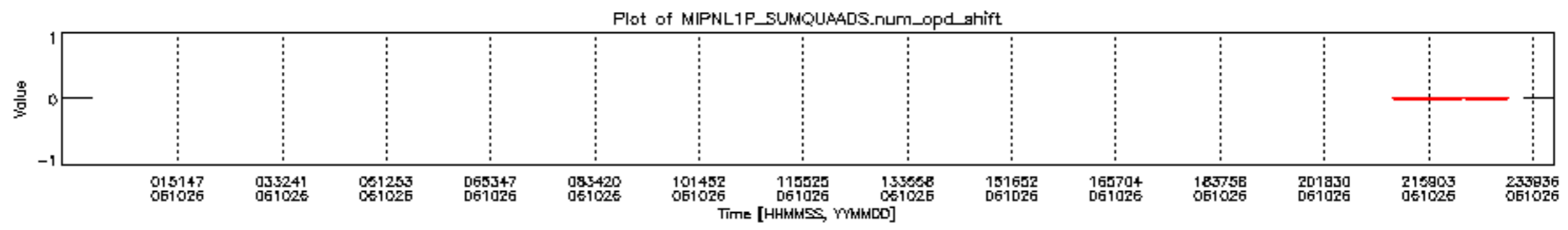
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs



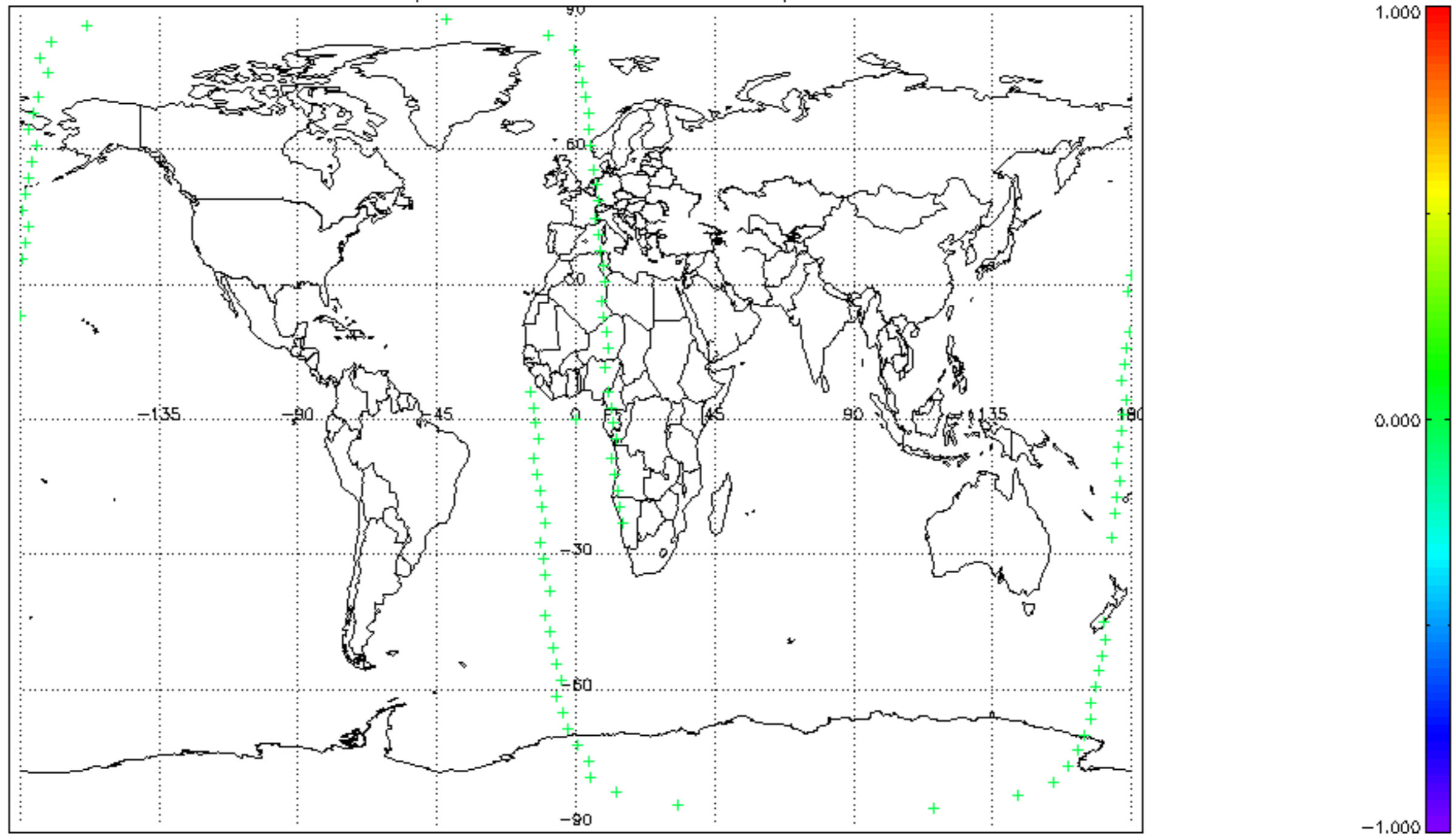


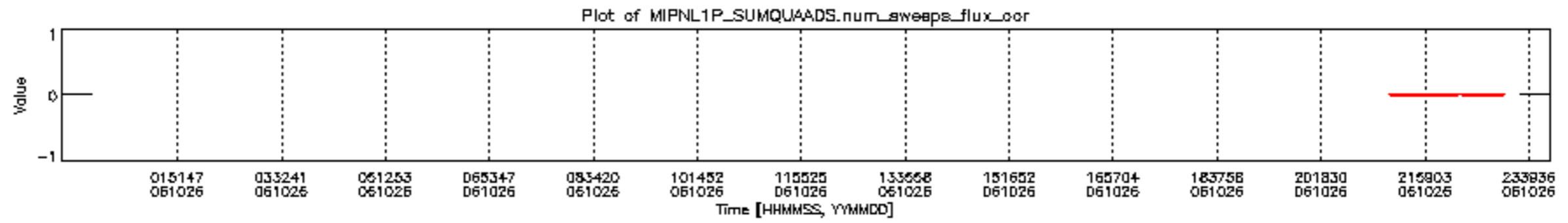
Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase



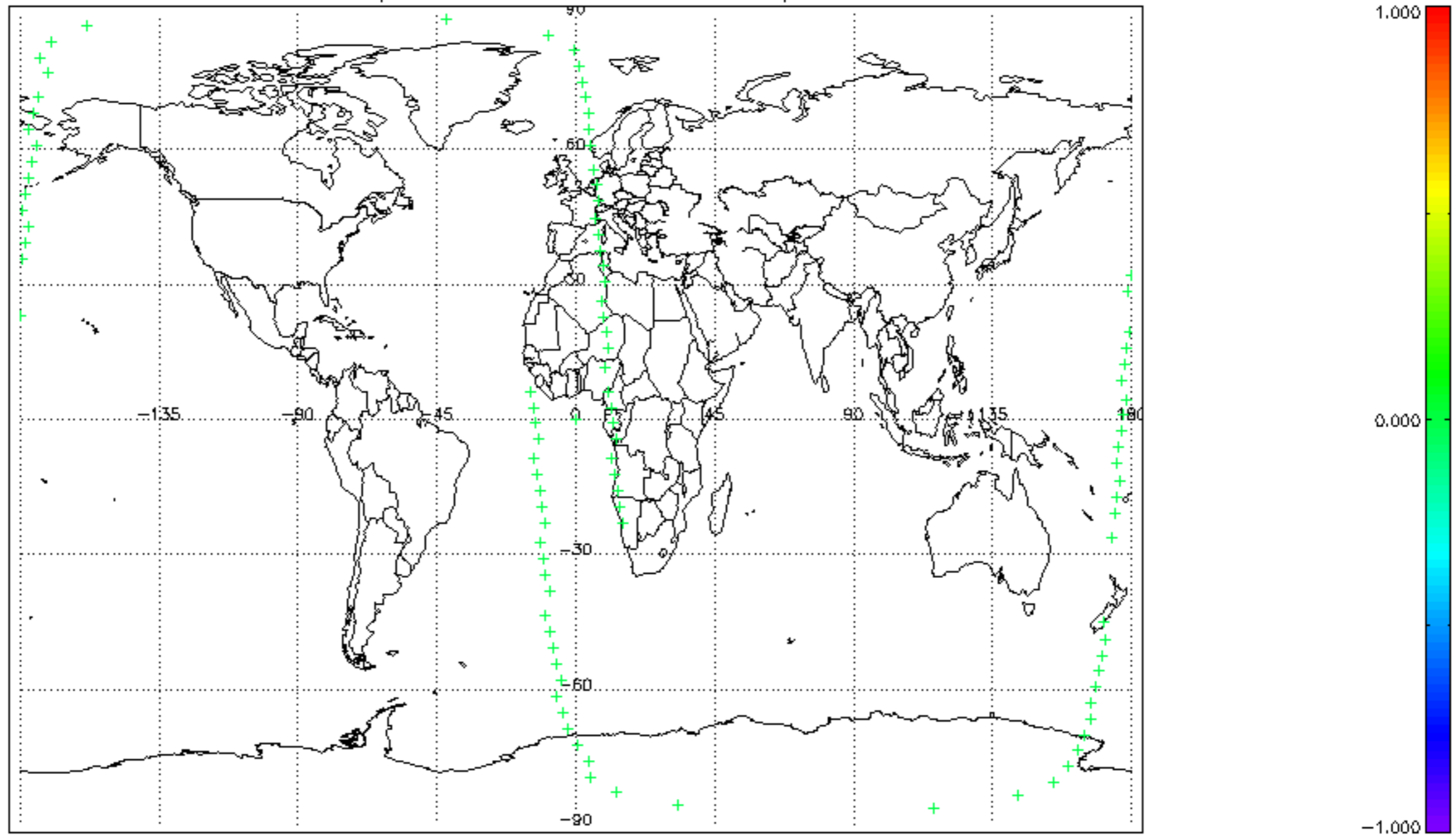


Geolocation plot of MIPNL1P_SUMQUAADS.num_opd_shift

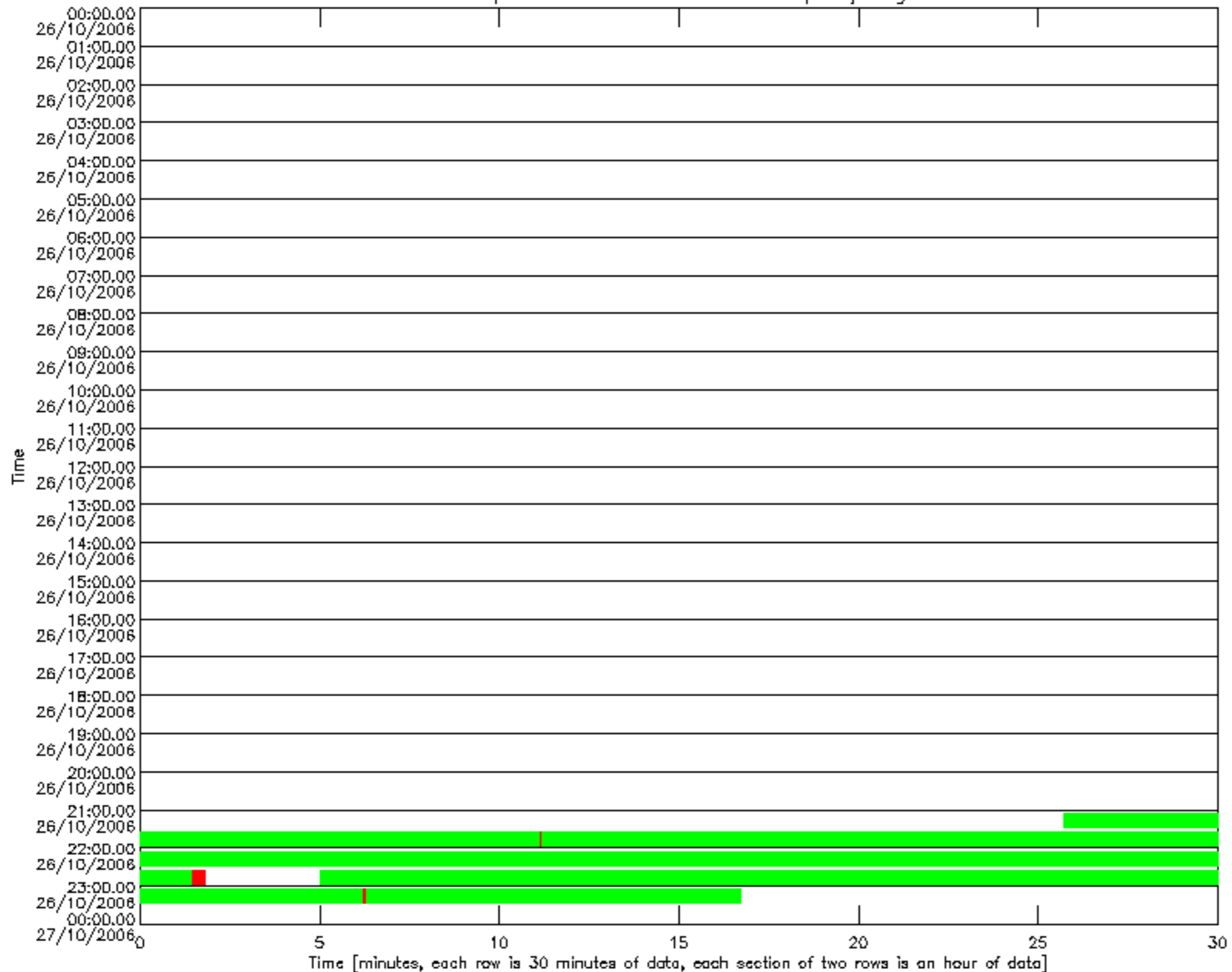




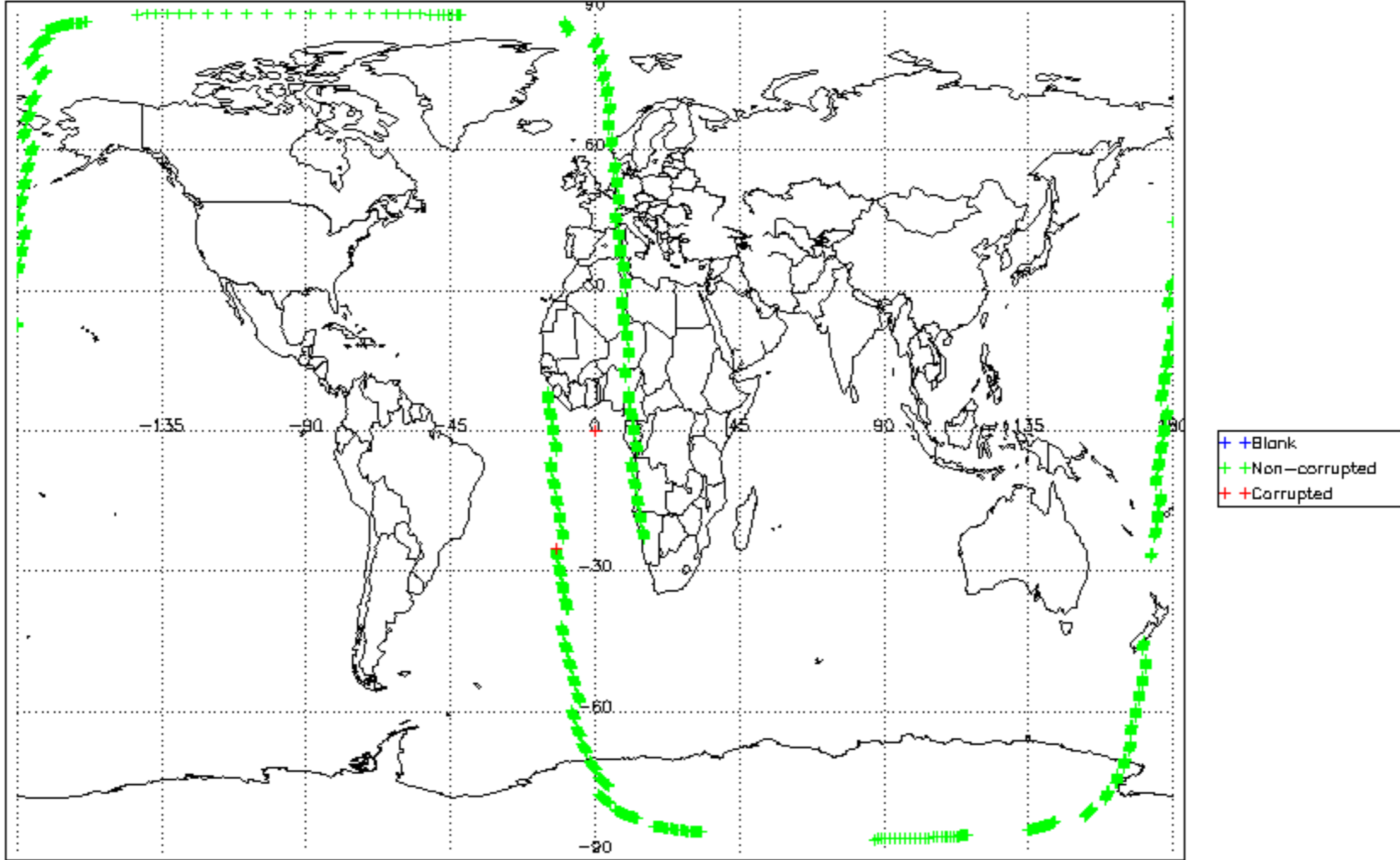
Geolocation plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_orr

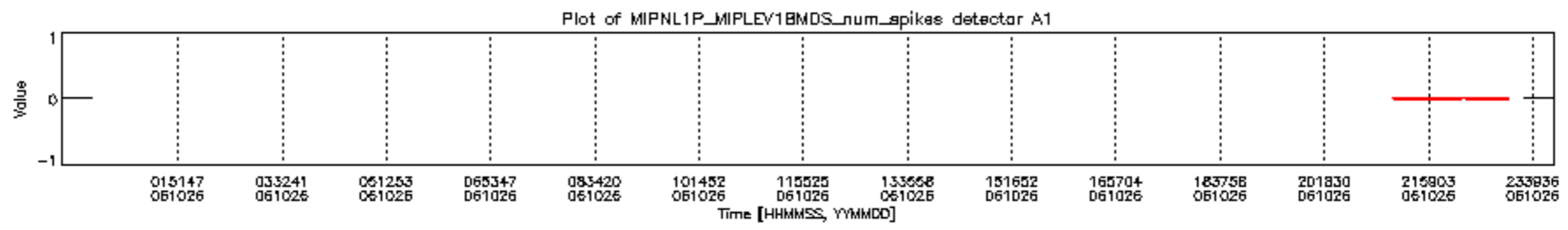


Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag

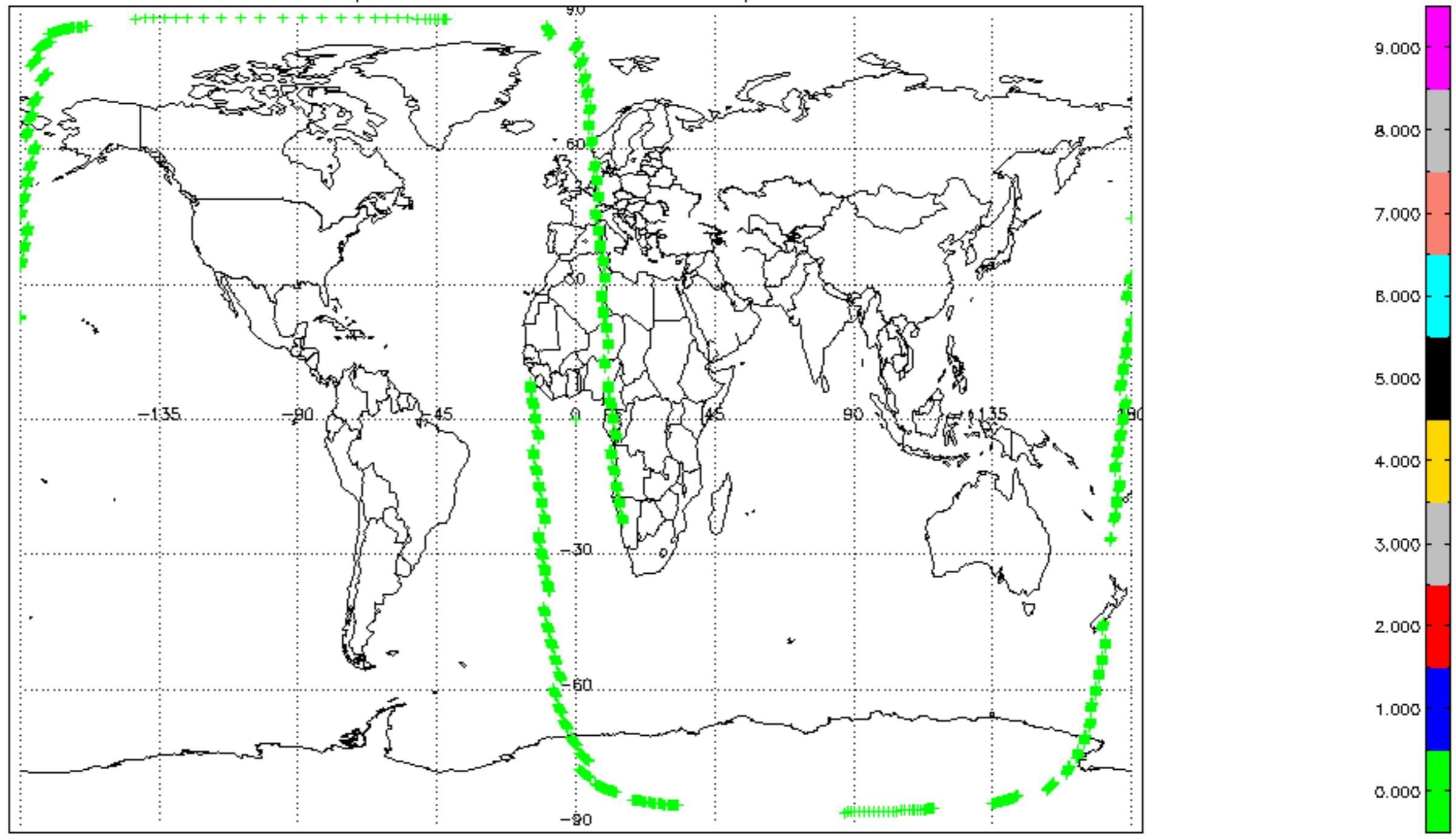


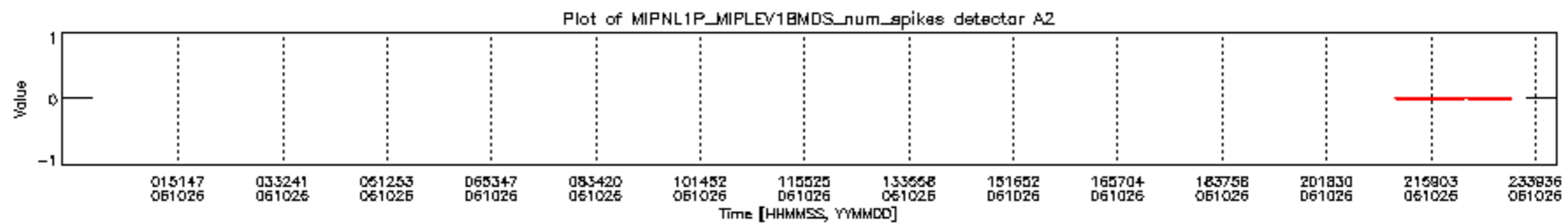
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag



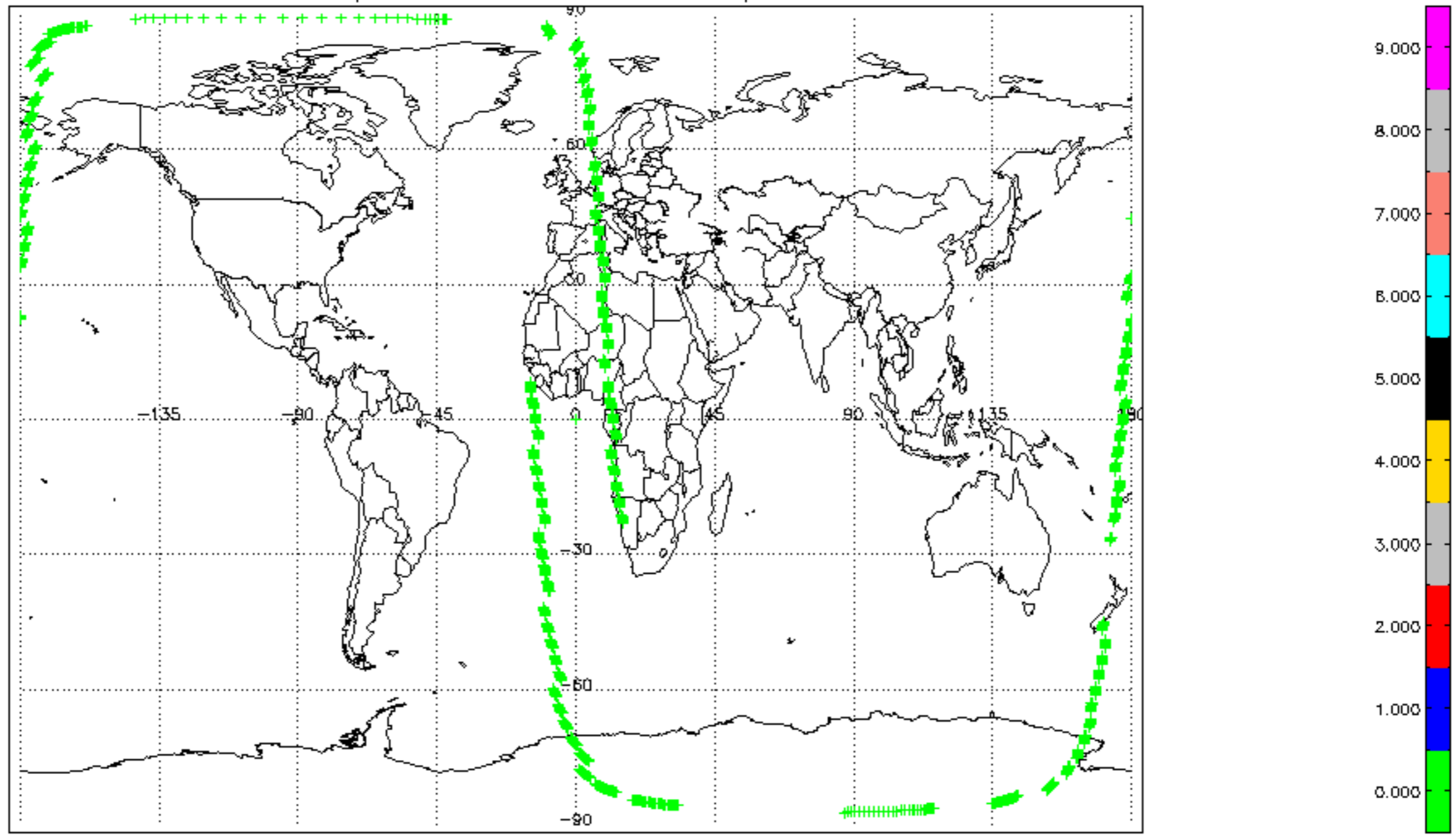


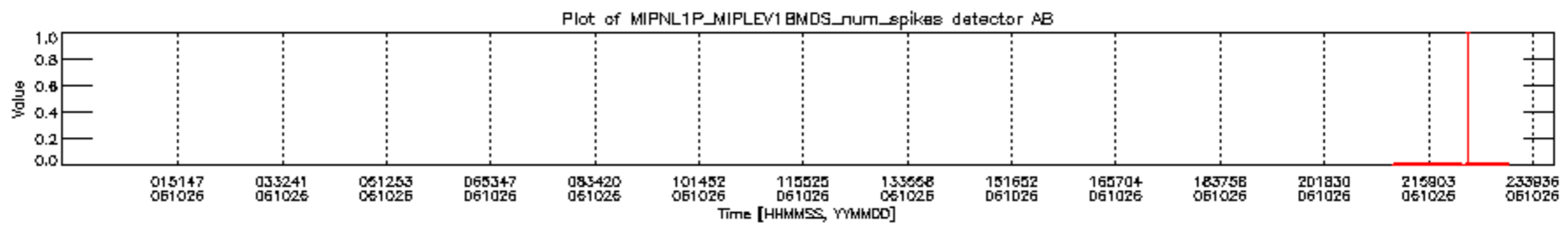
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1



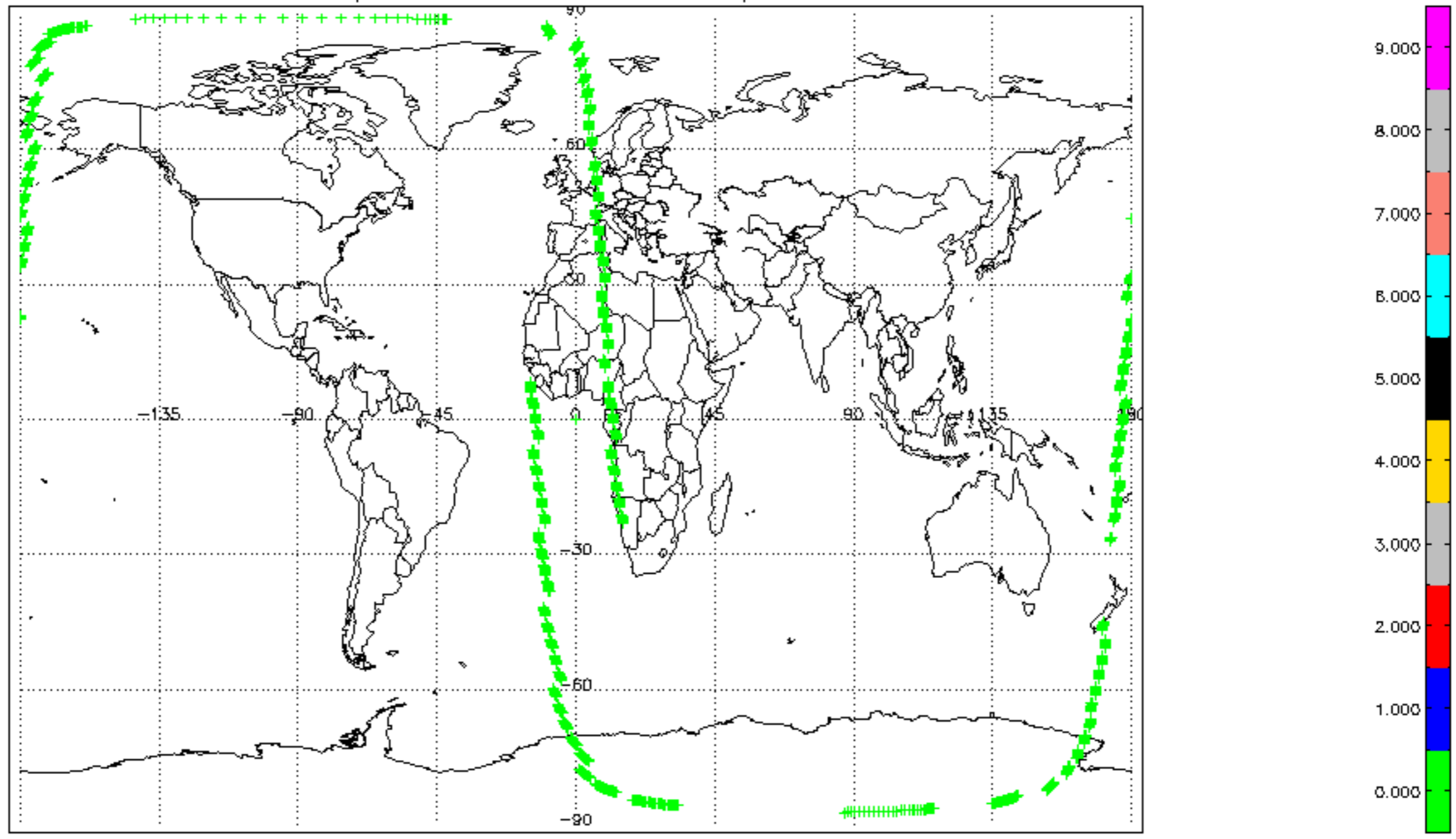


Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2

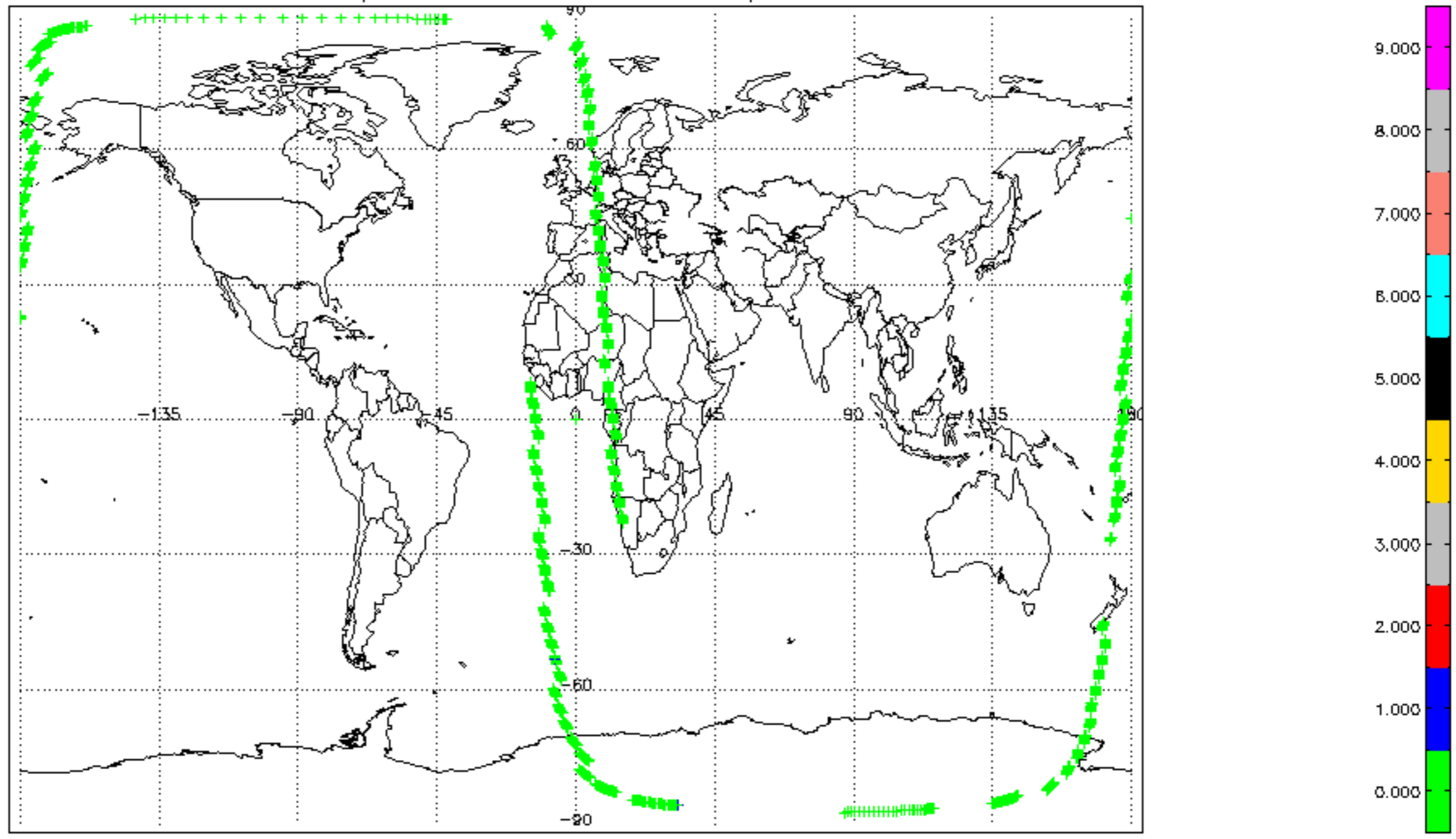




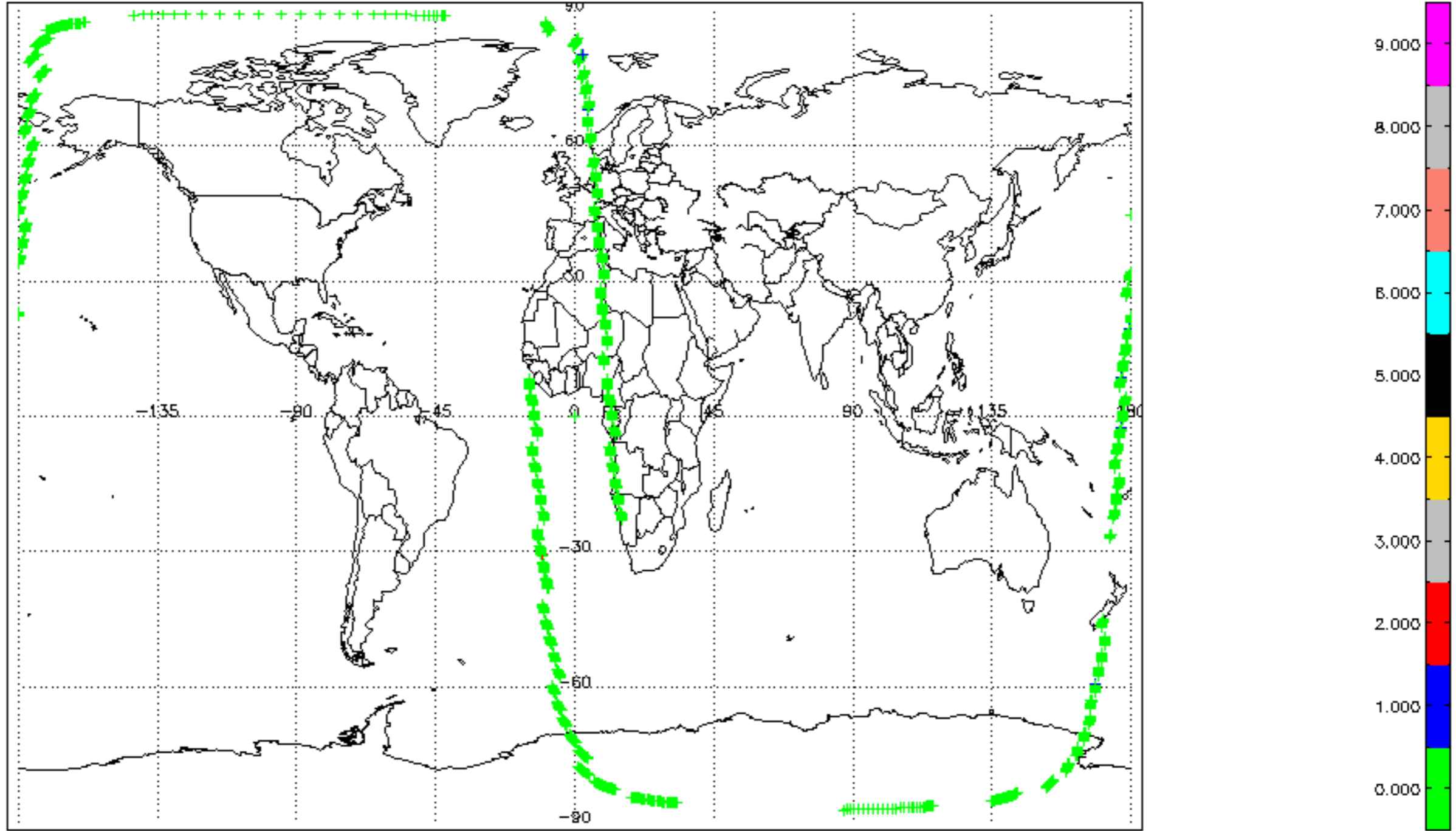
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB

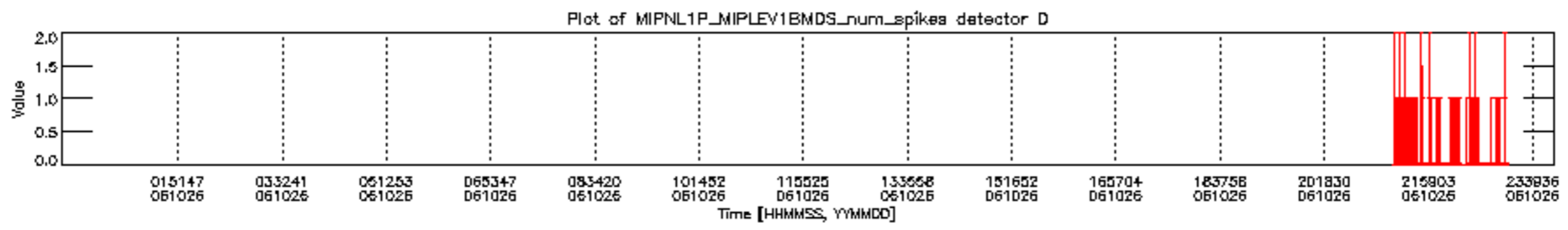


Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B

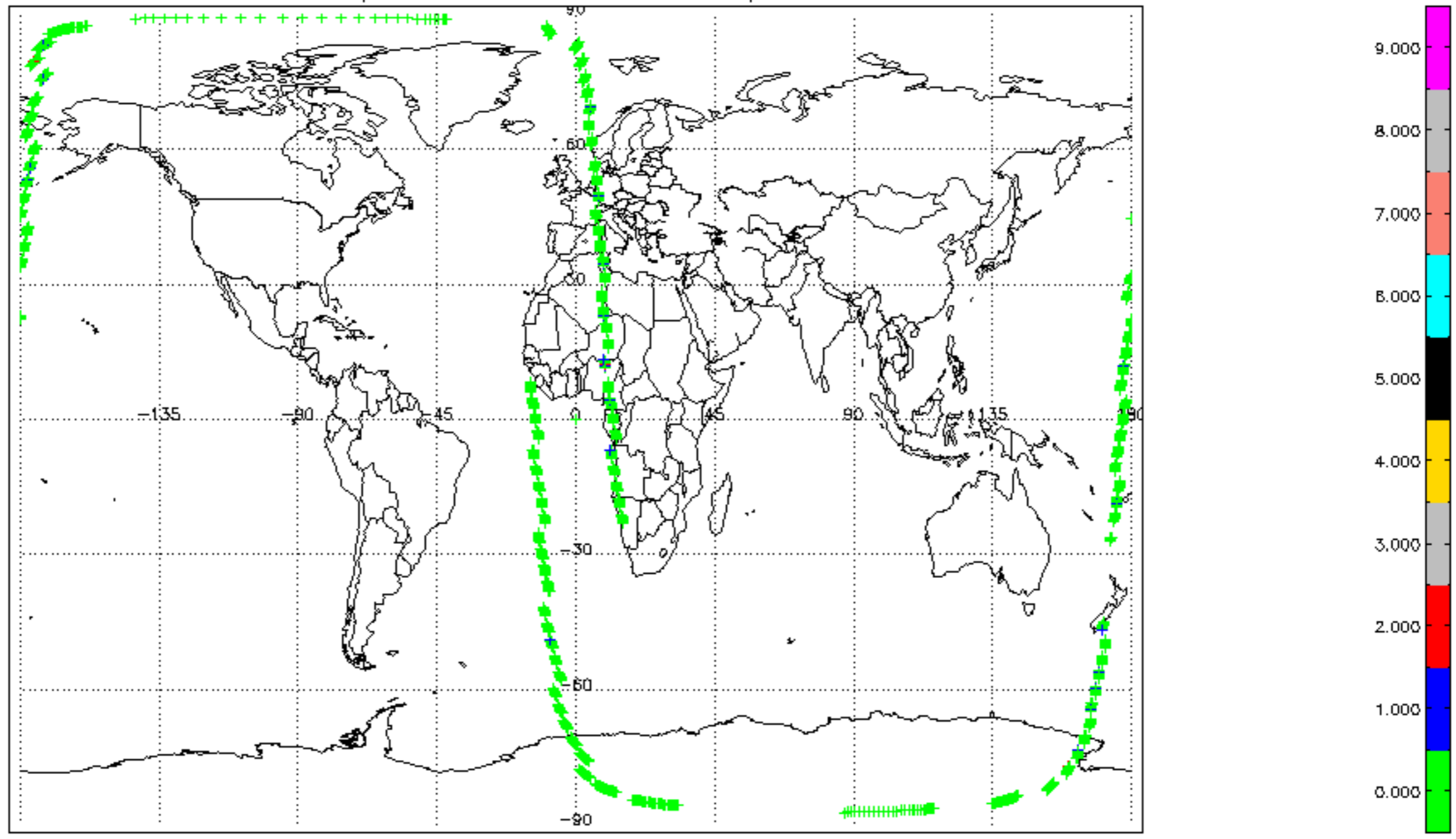


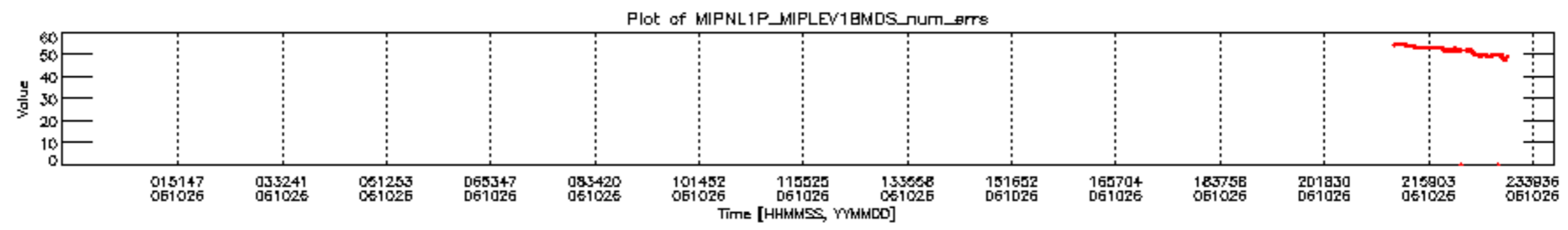
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C



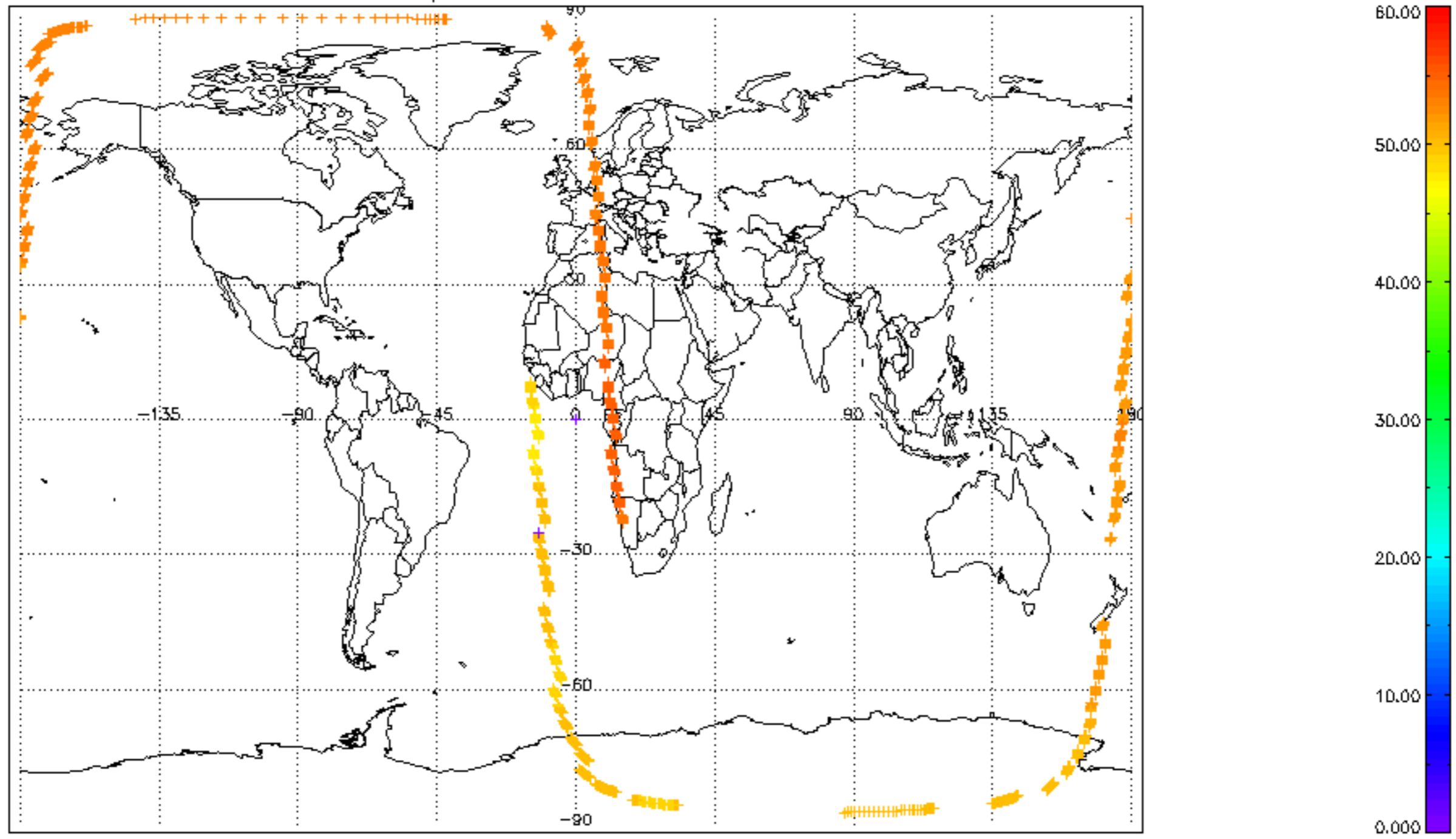


Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D

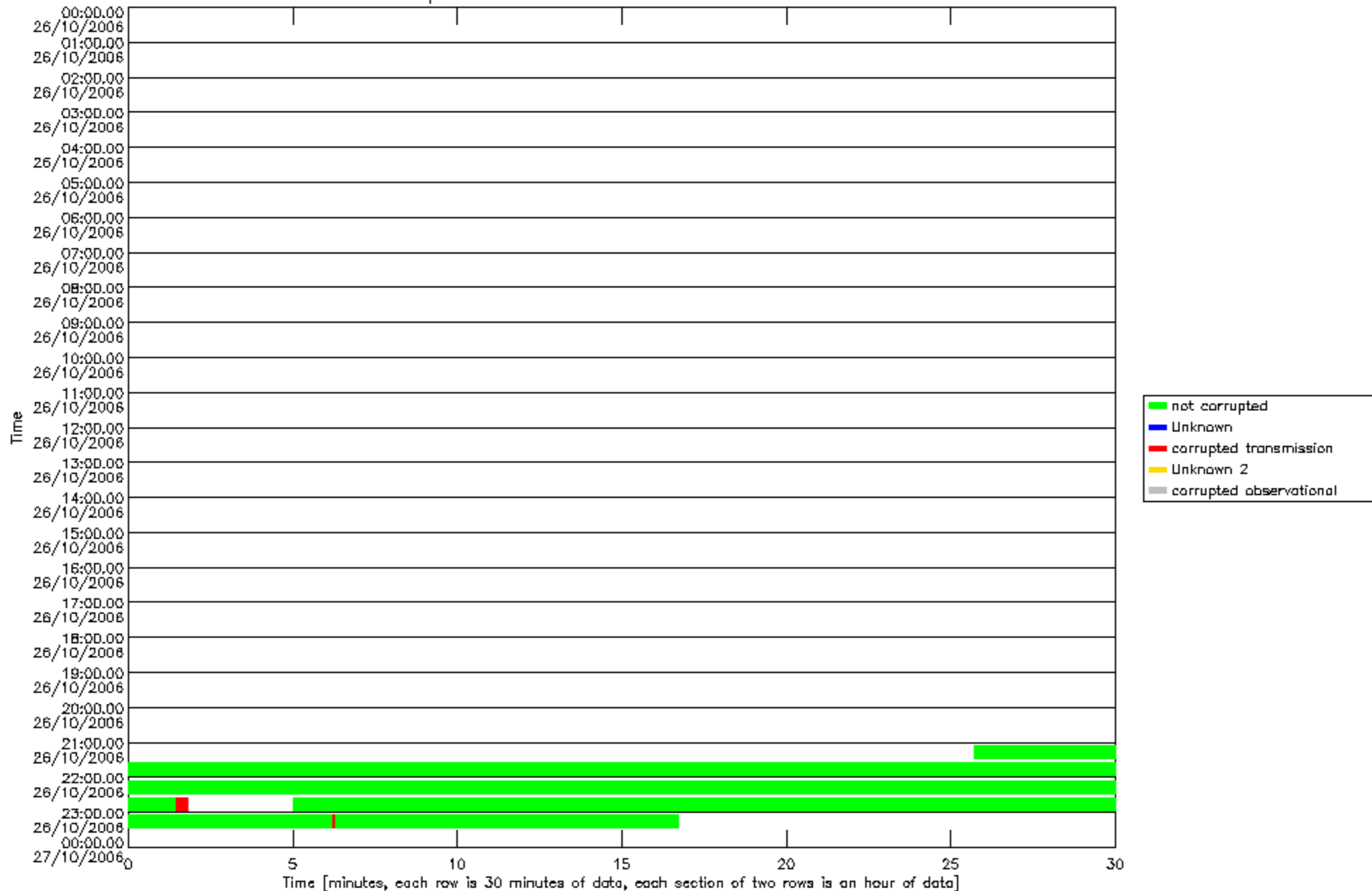




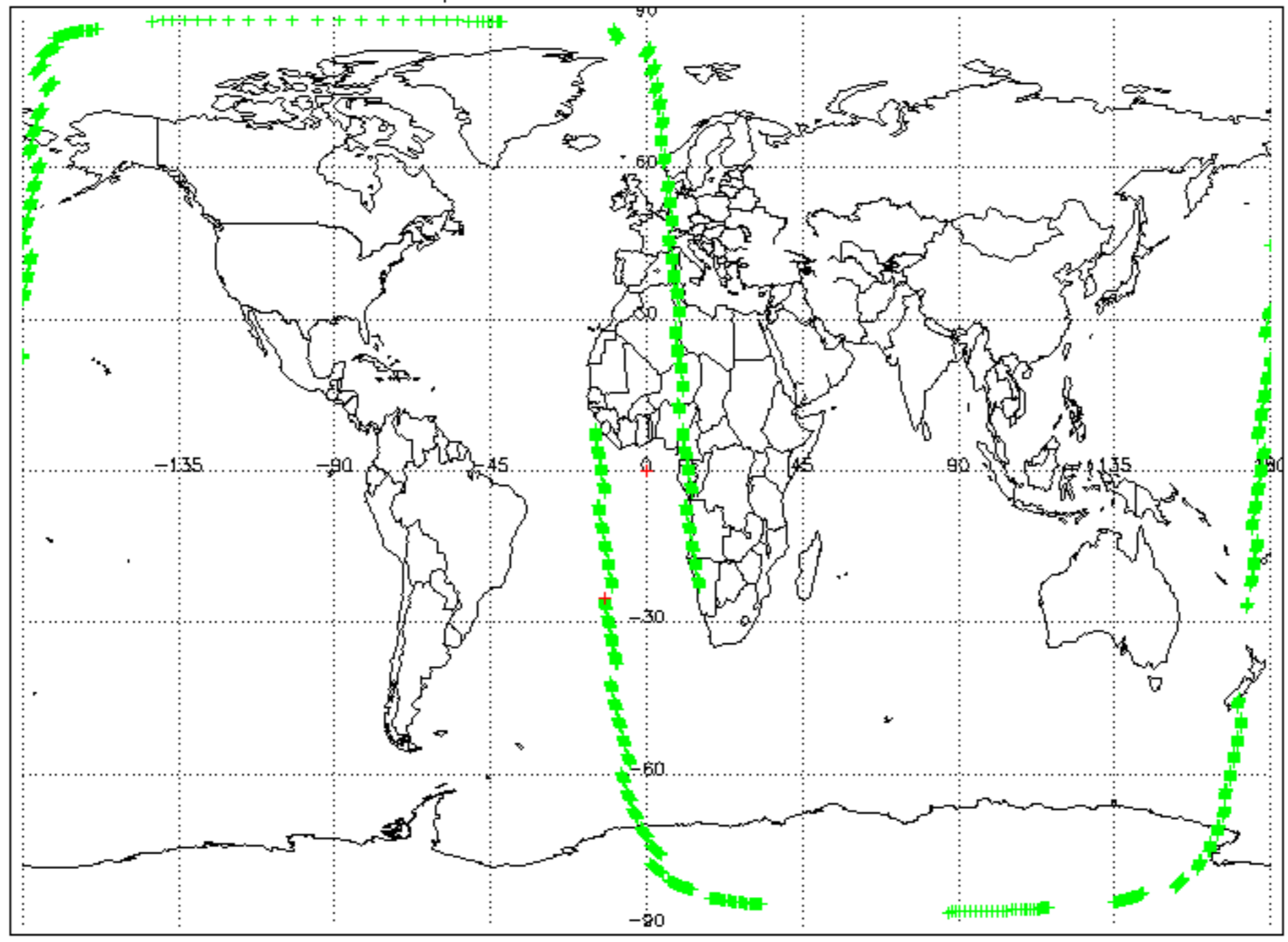
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs



Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band A

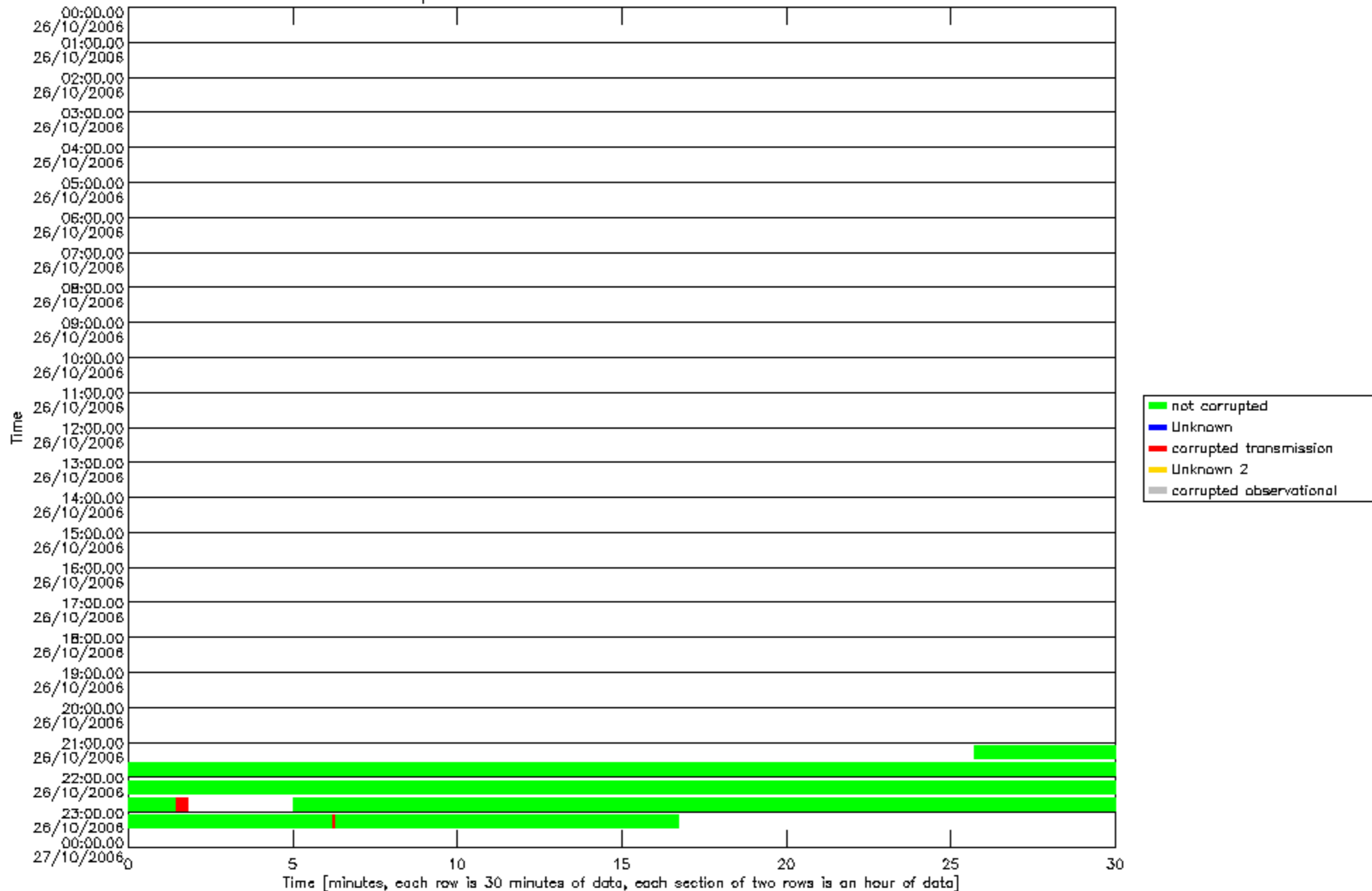


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A

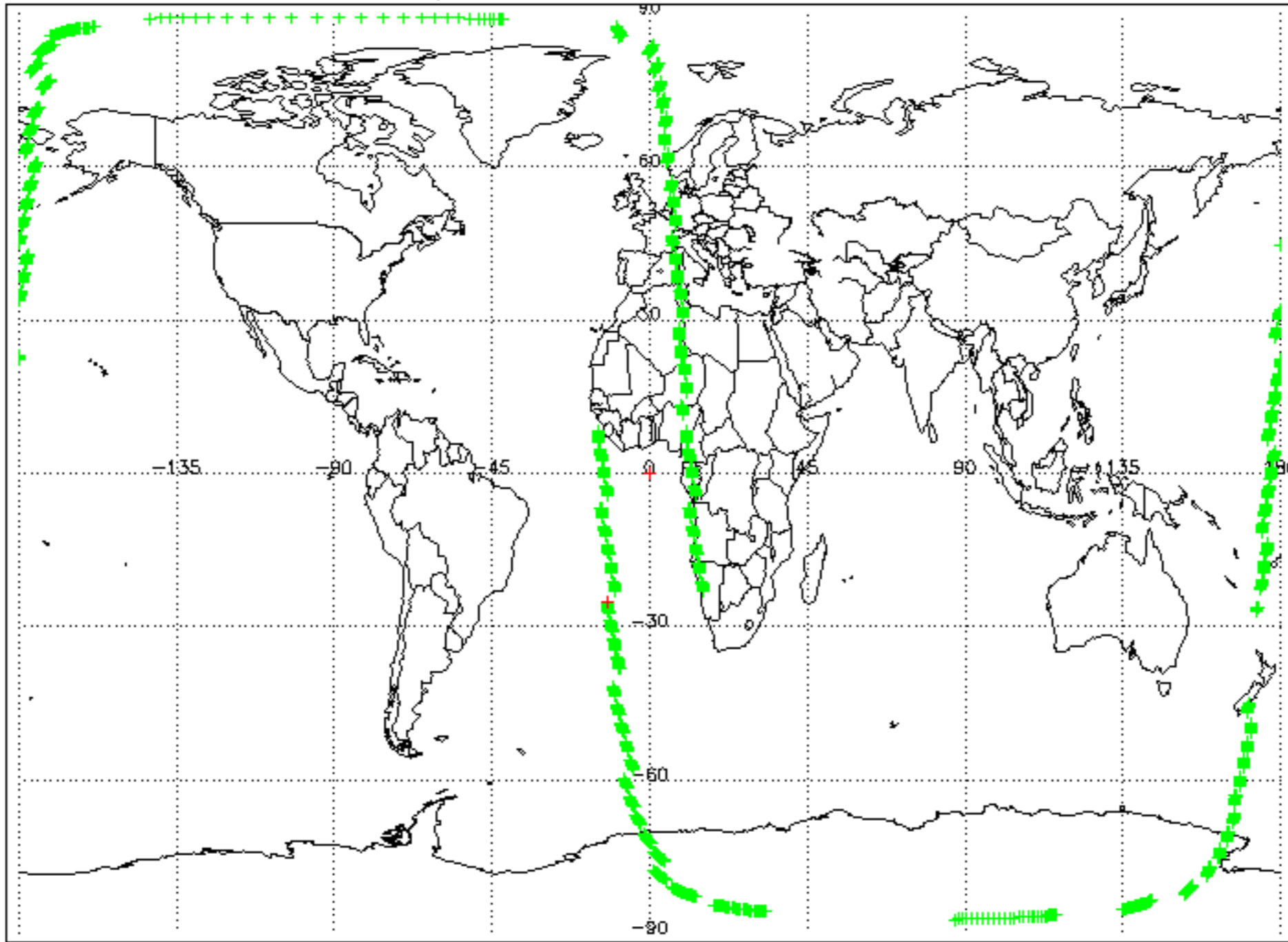


- + not corrupted
- + Unknown
- + corrupted transmission
- + Unknown 2
- + corrupted observational

Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band AB

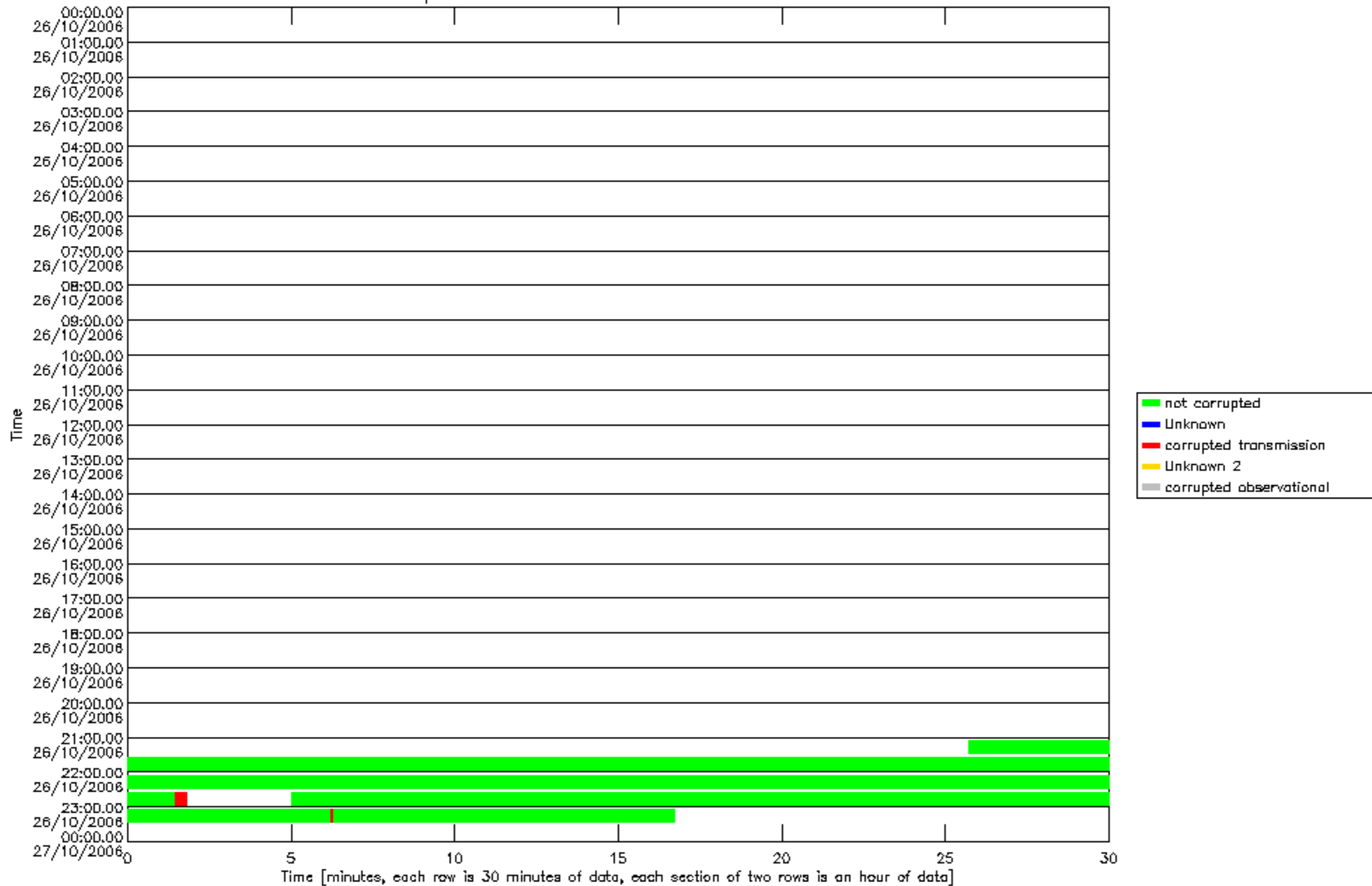


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB

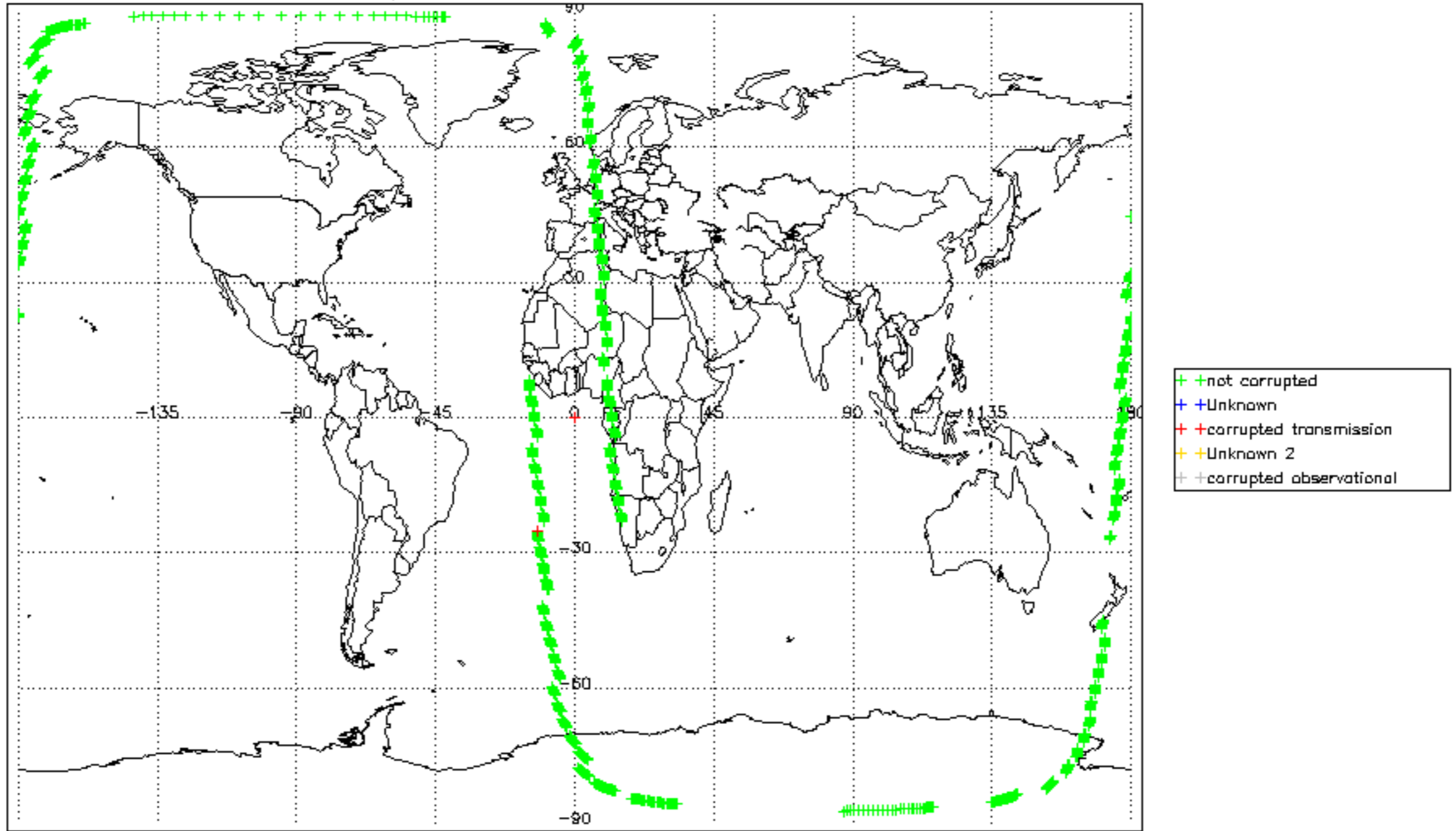


- + not corrupted
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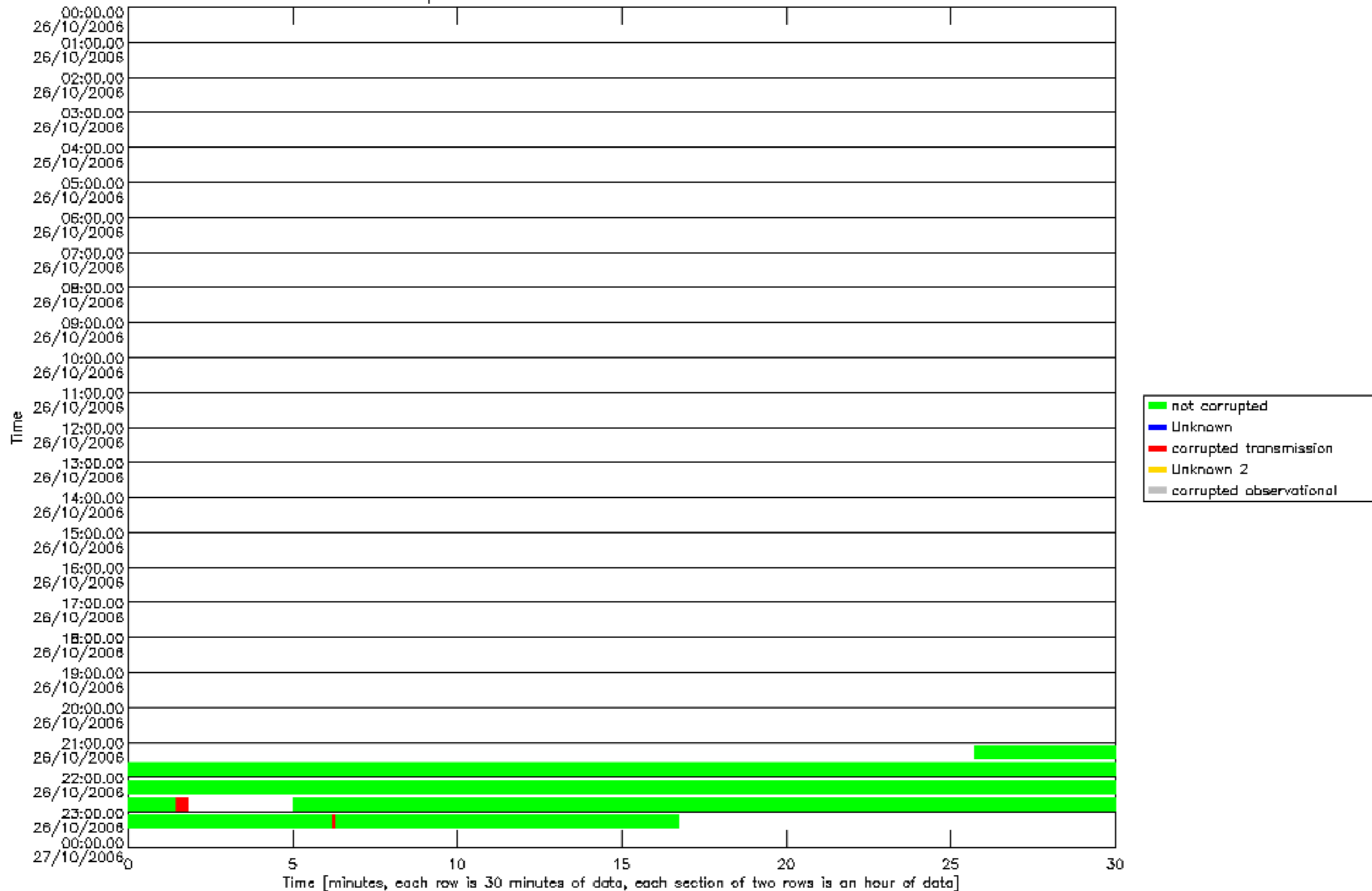
Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band B



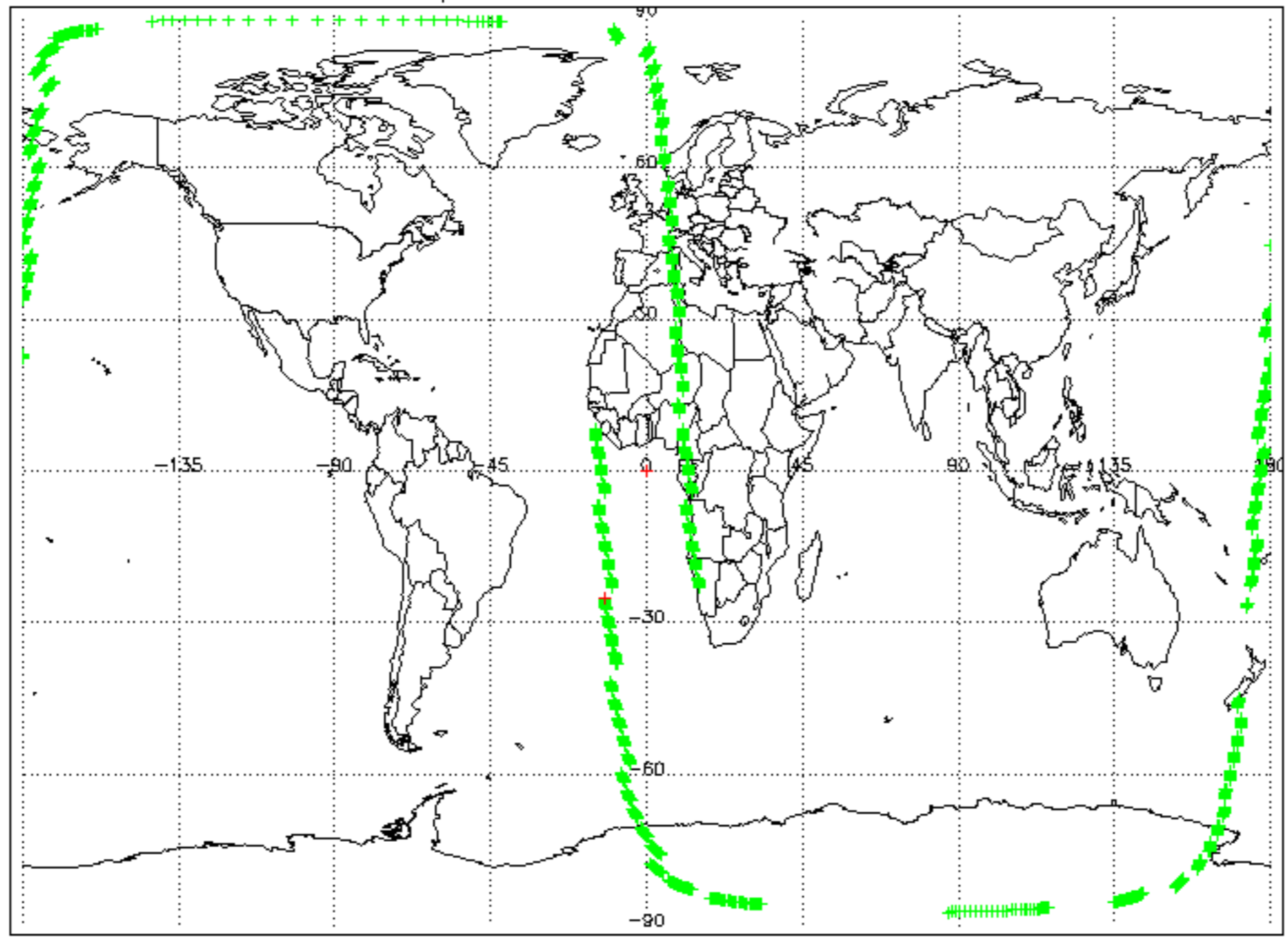
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B



Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band C

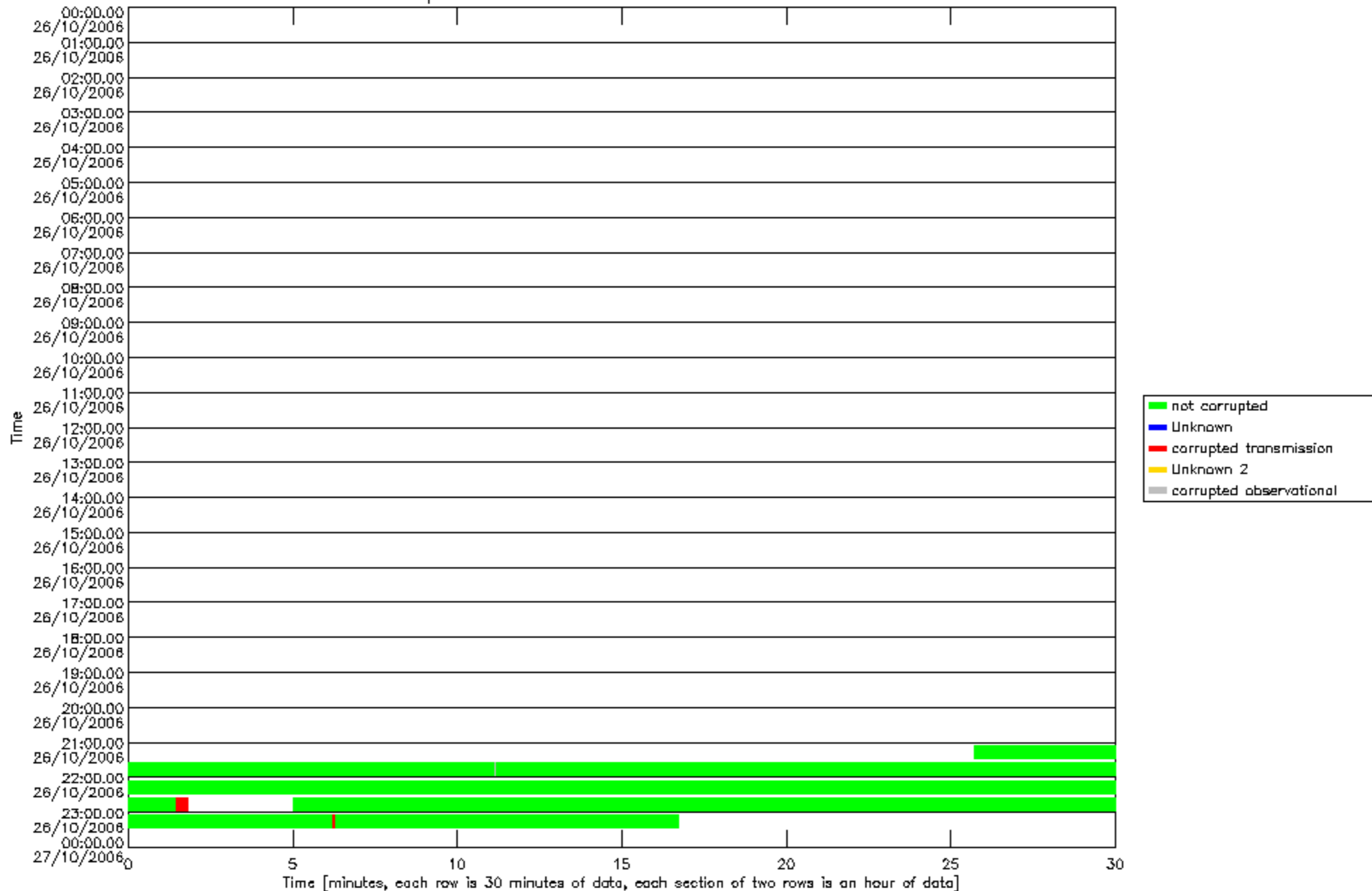


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C

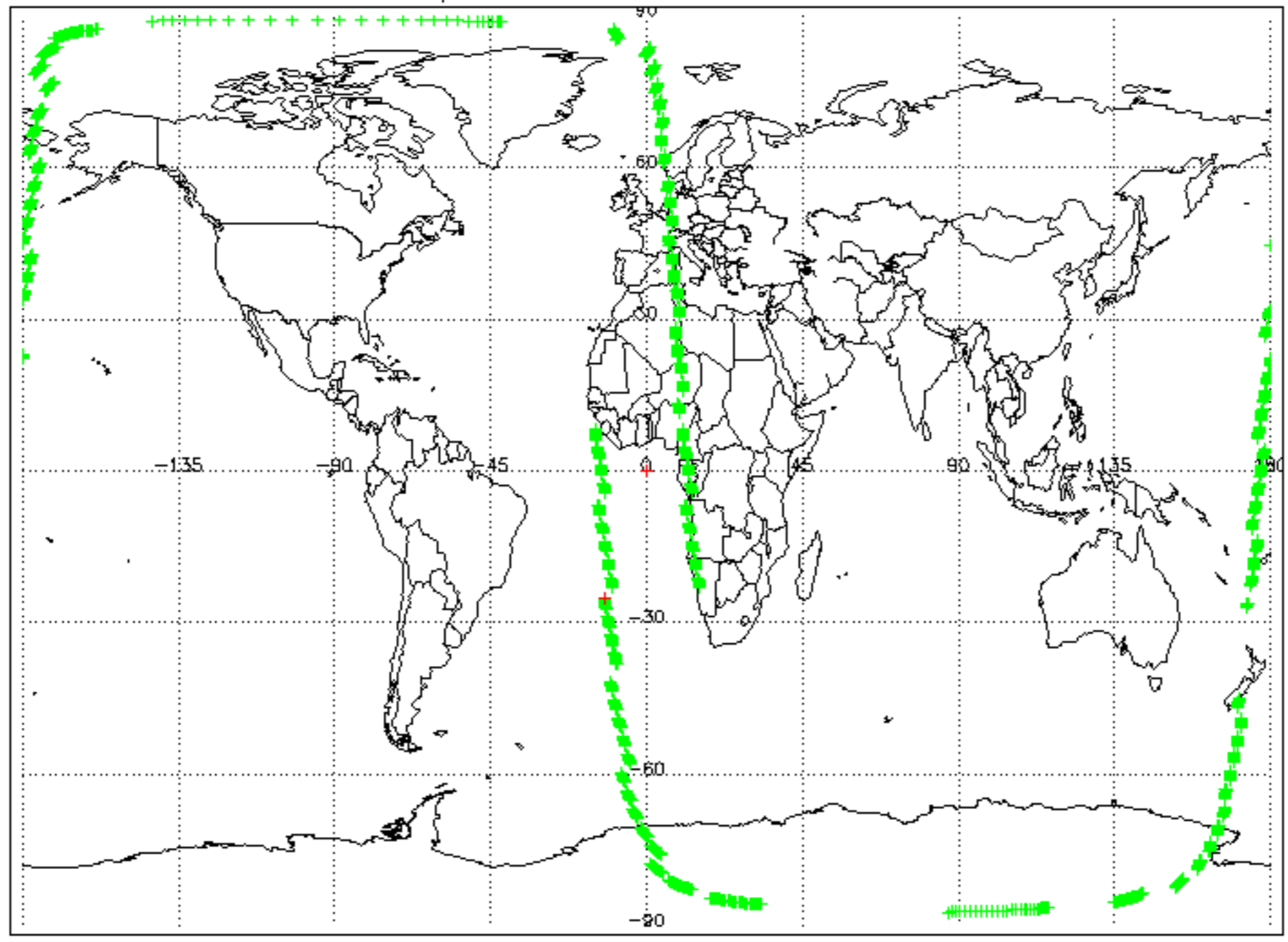


- + not corrupted
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- + corrupted transmission
- + Unknown 2
- + corrupted observational

Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band D

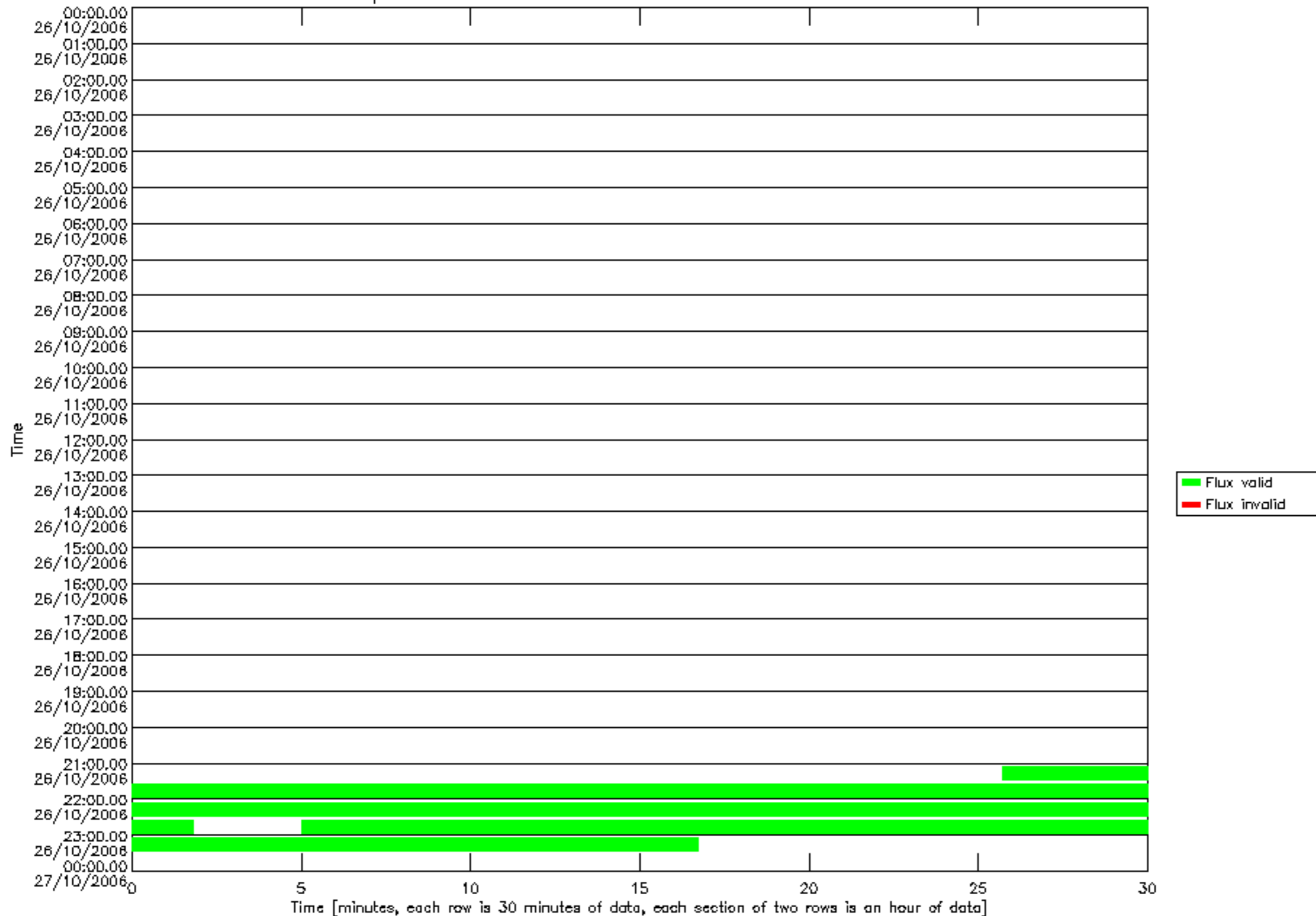


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D

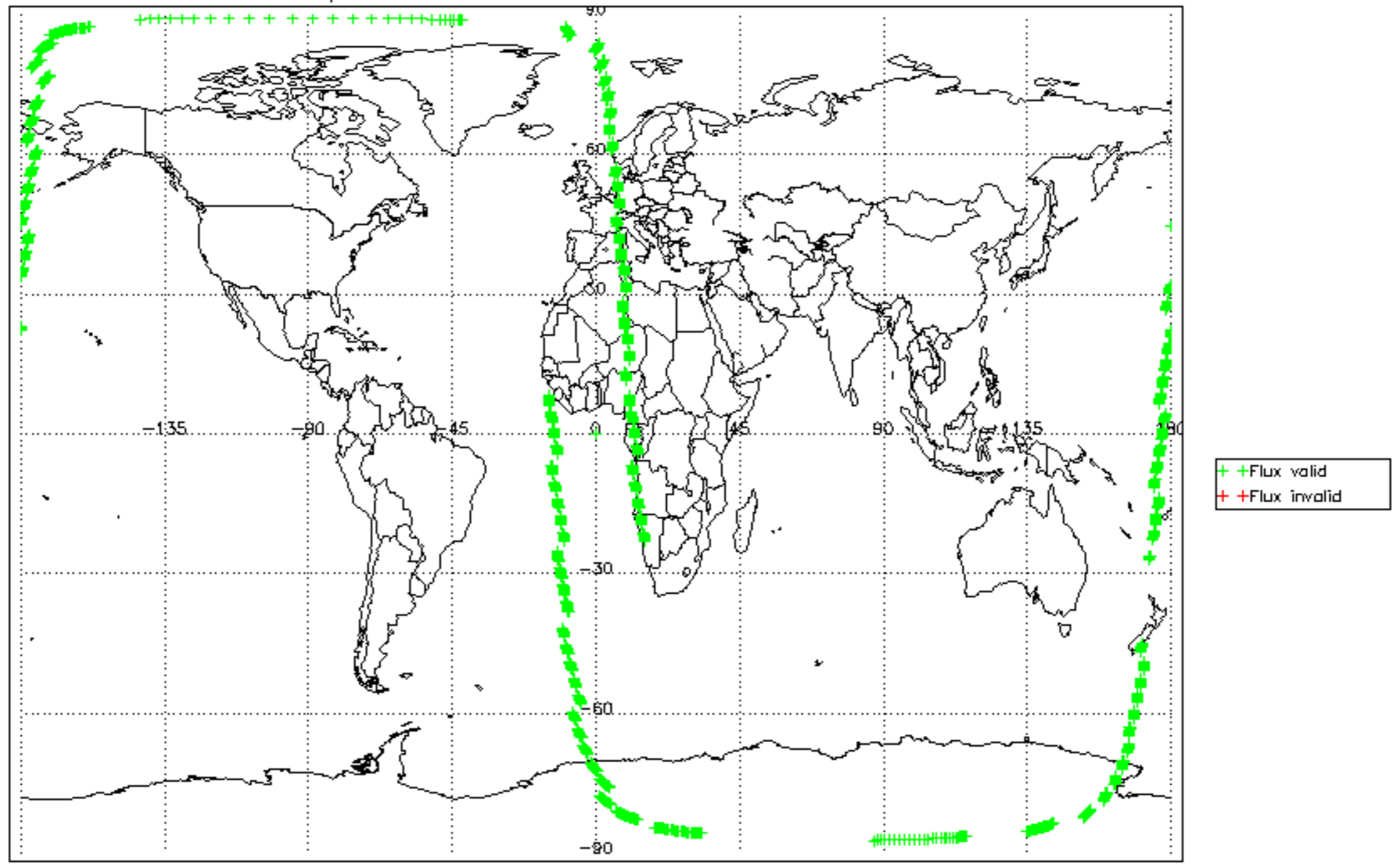


- + not corrupted
- + Unknown
- + corrupted transmission
- + Unknown 2
- + corrupted observational

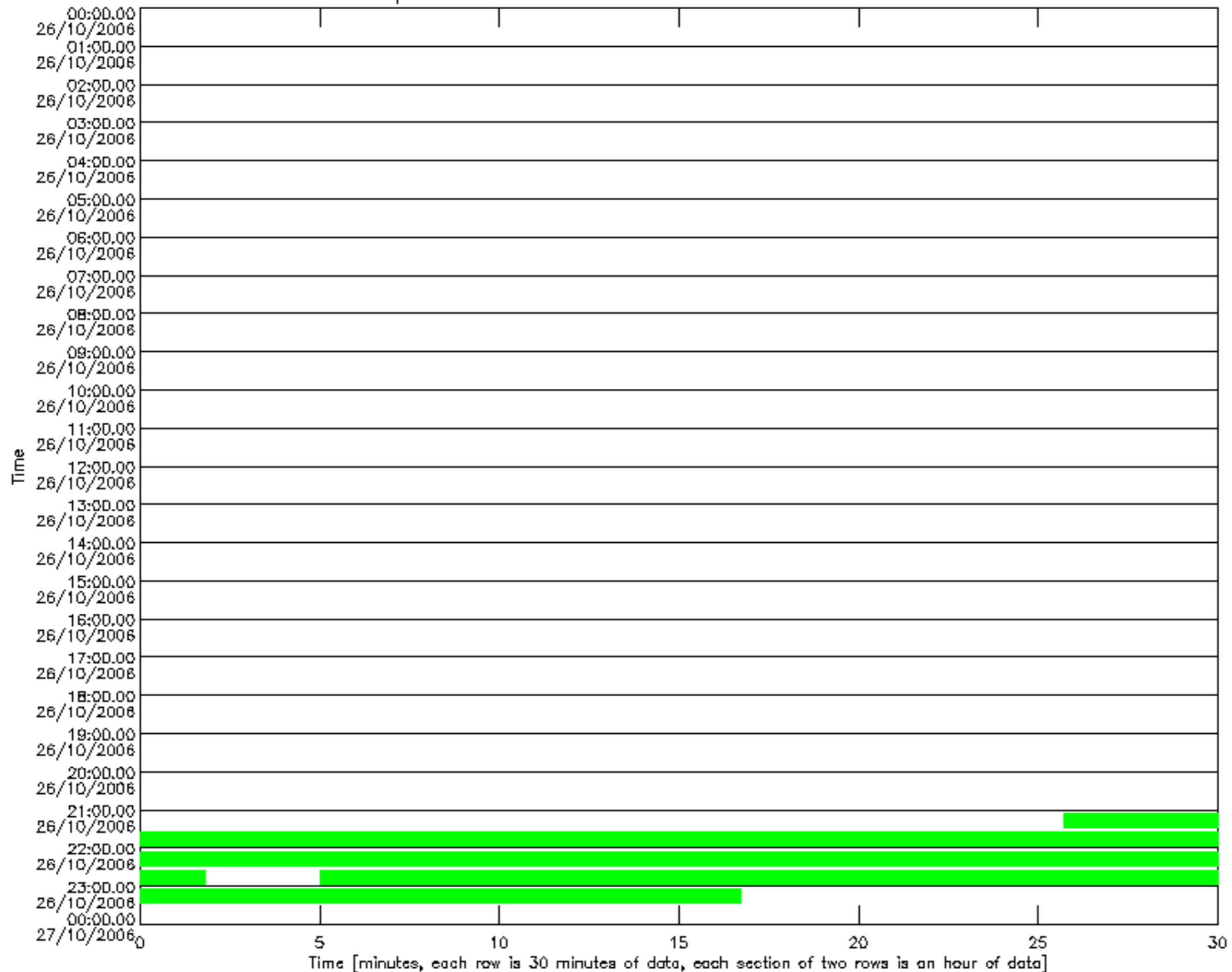
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1



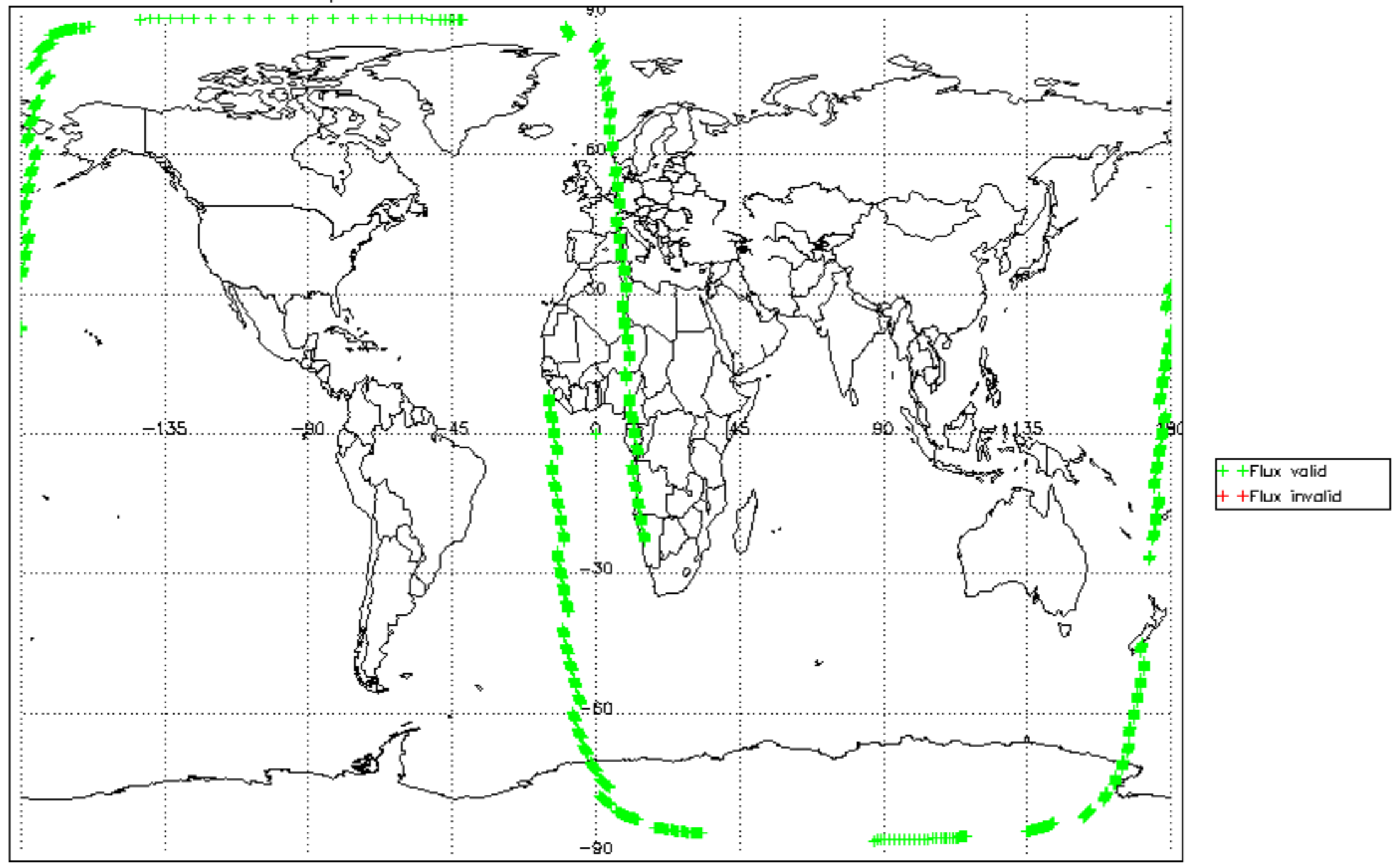
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_jin_flux detector A1



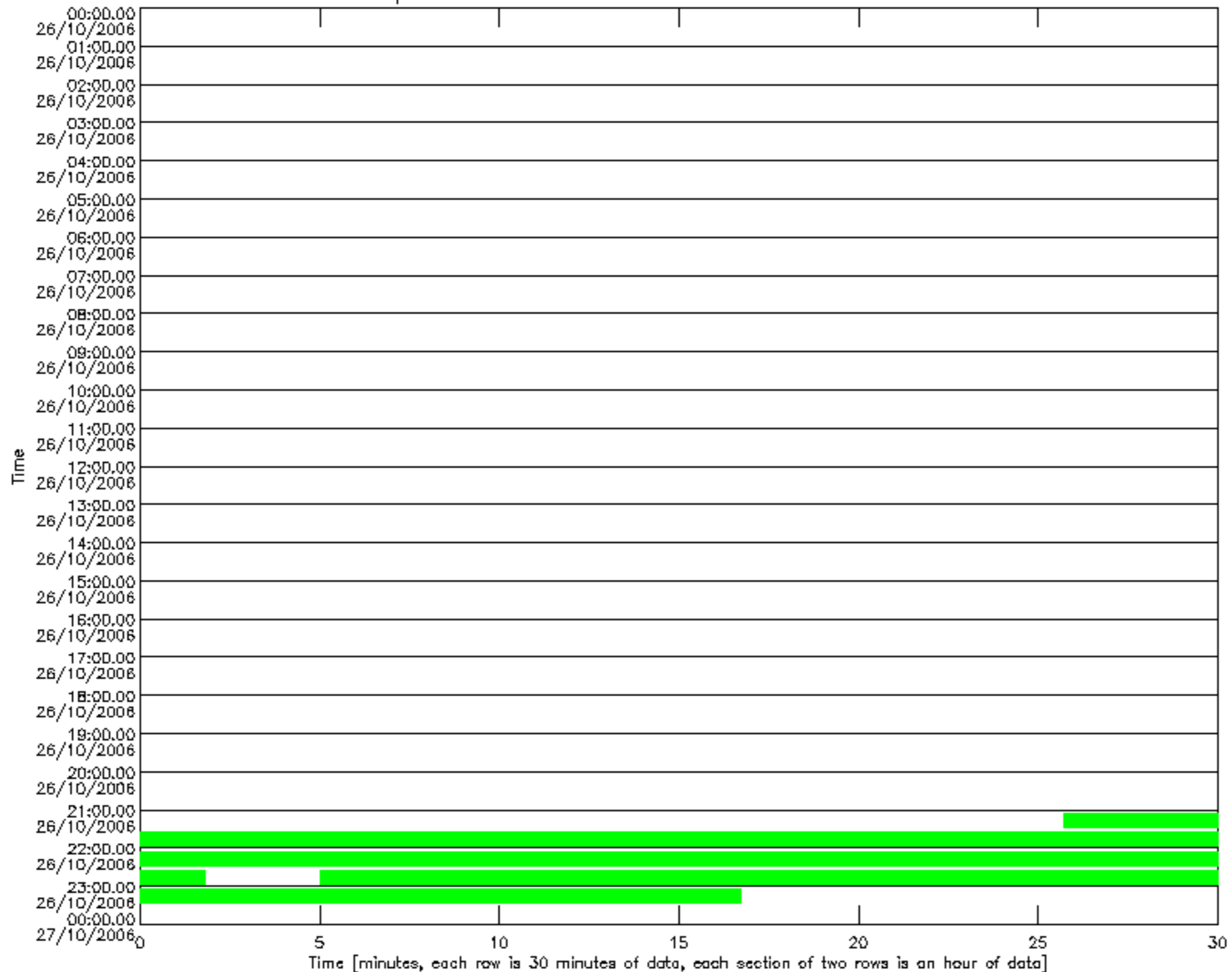
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2



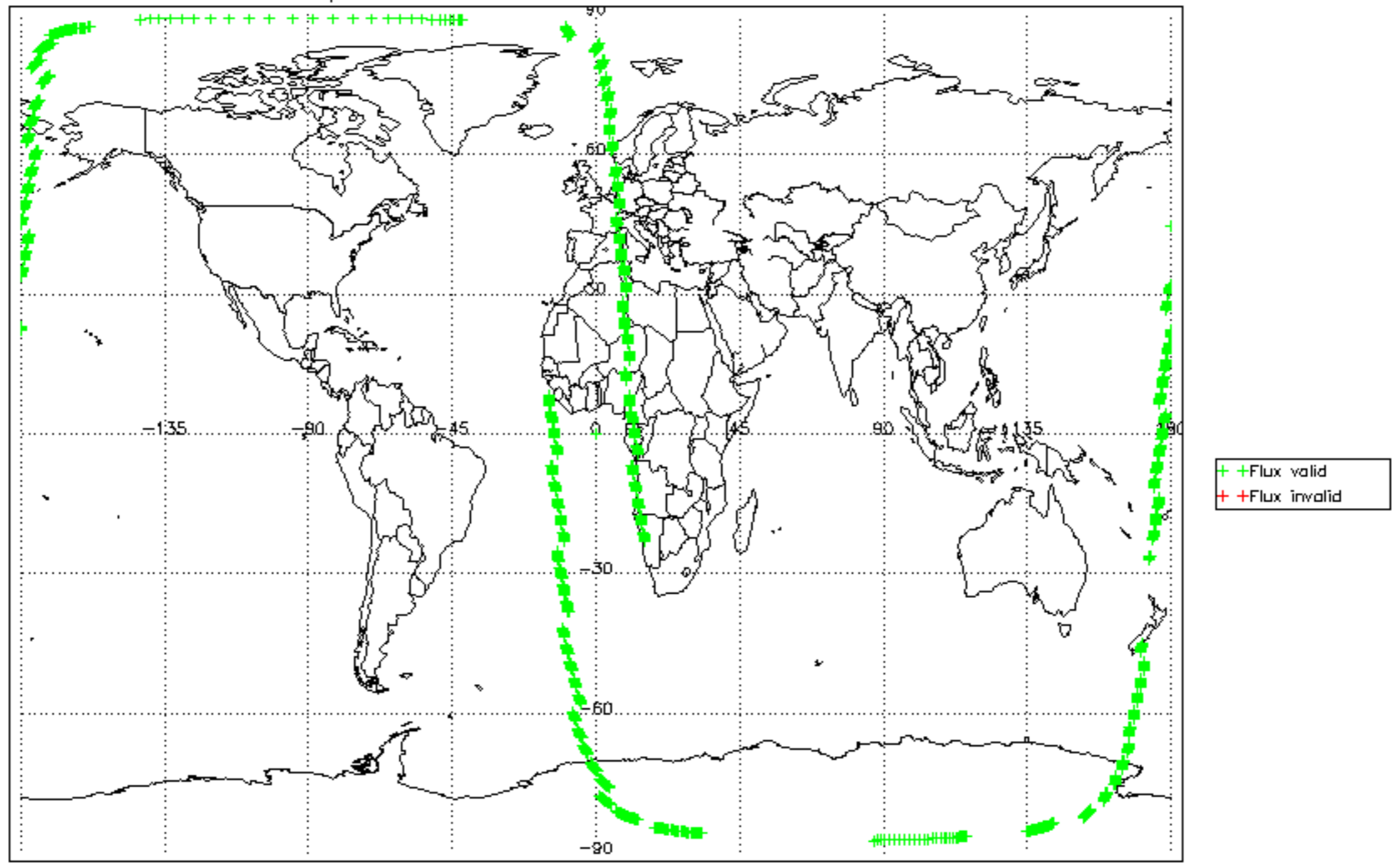
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_jin_flux detector A2



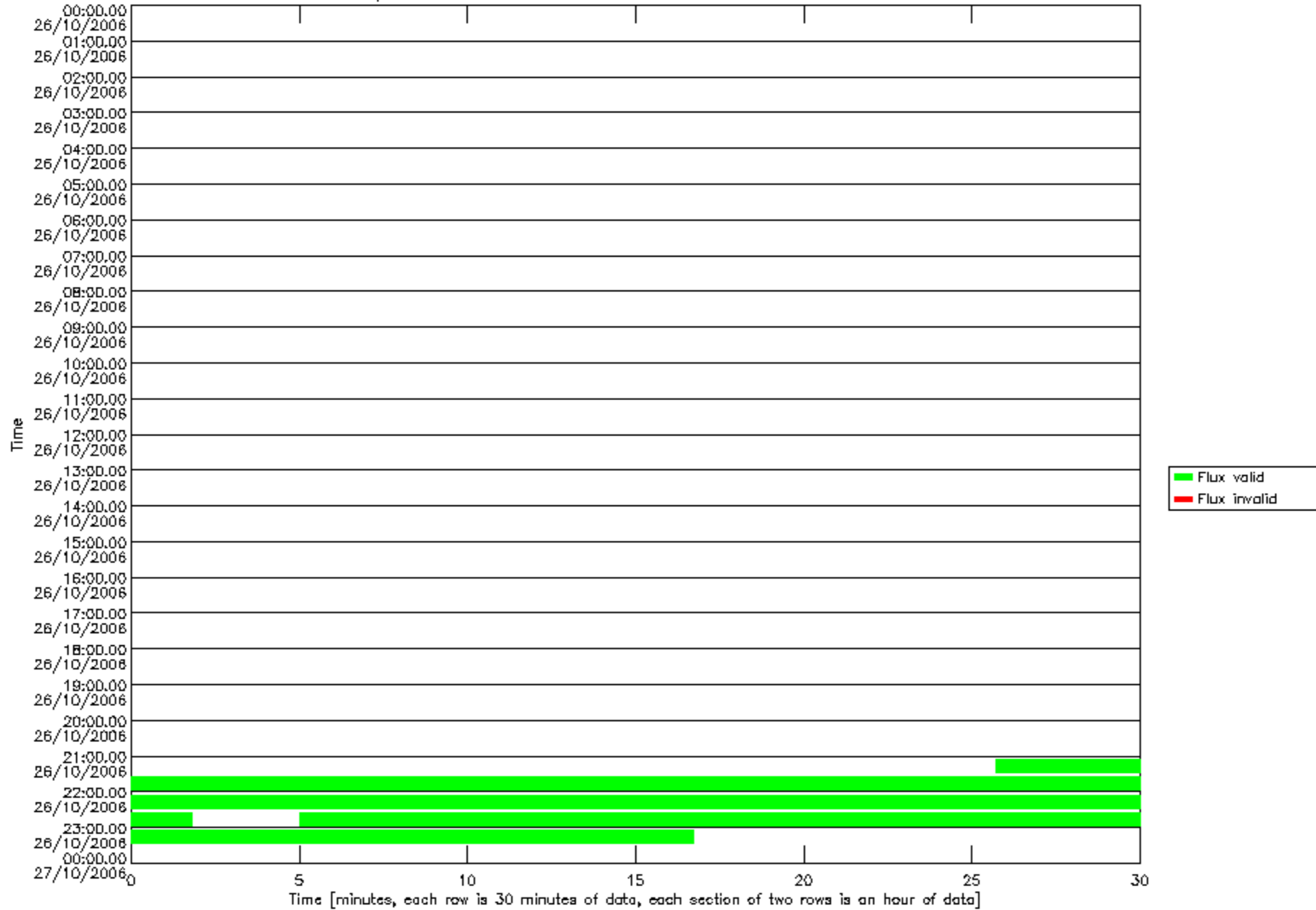
Bar plot of MIPNL1P_MIPLEV1 BMDS_detect_non_lin_flux detector AB



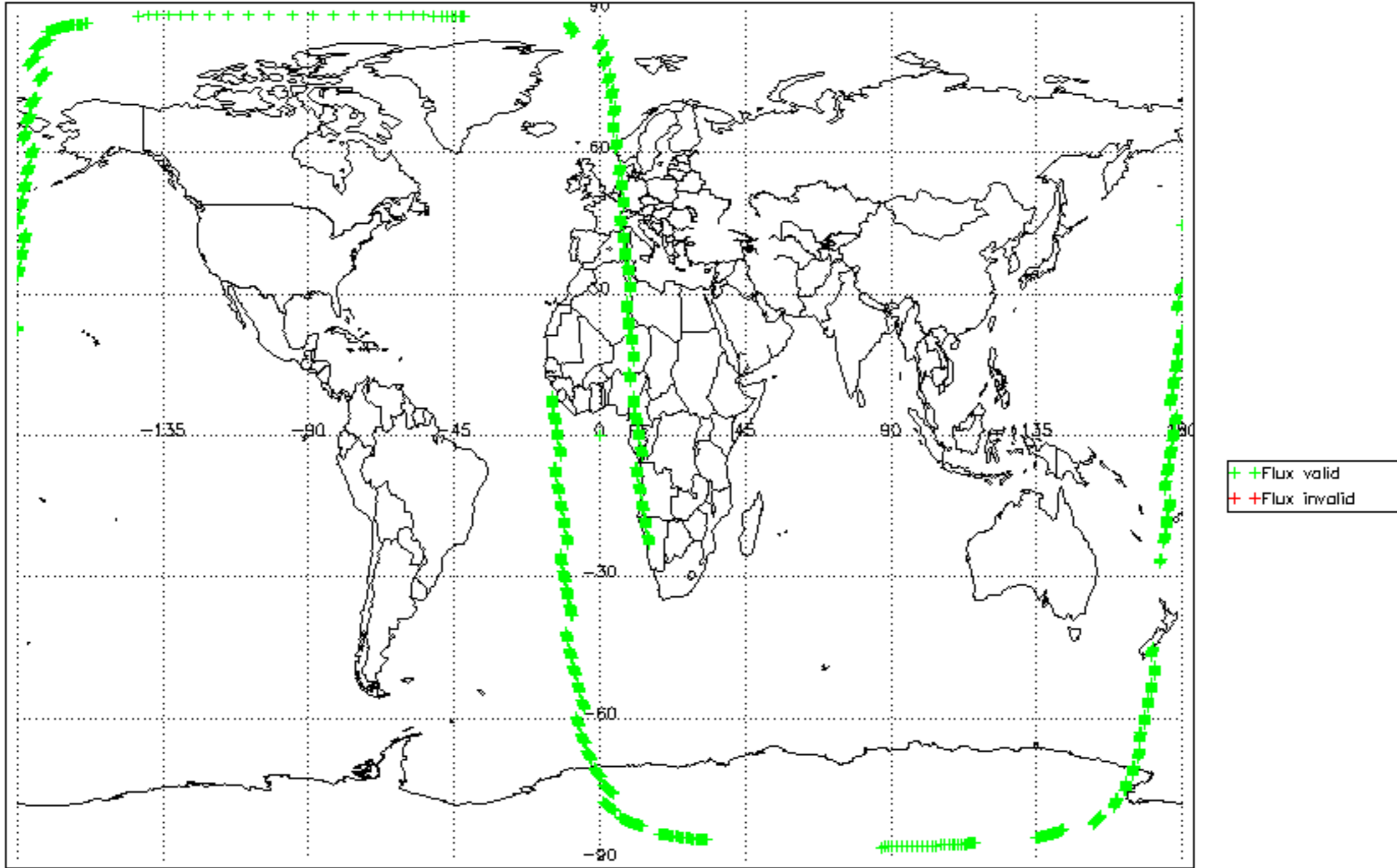
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



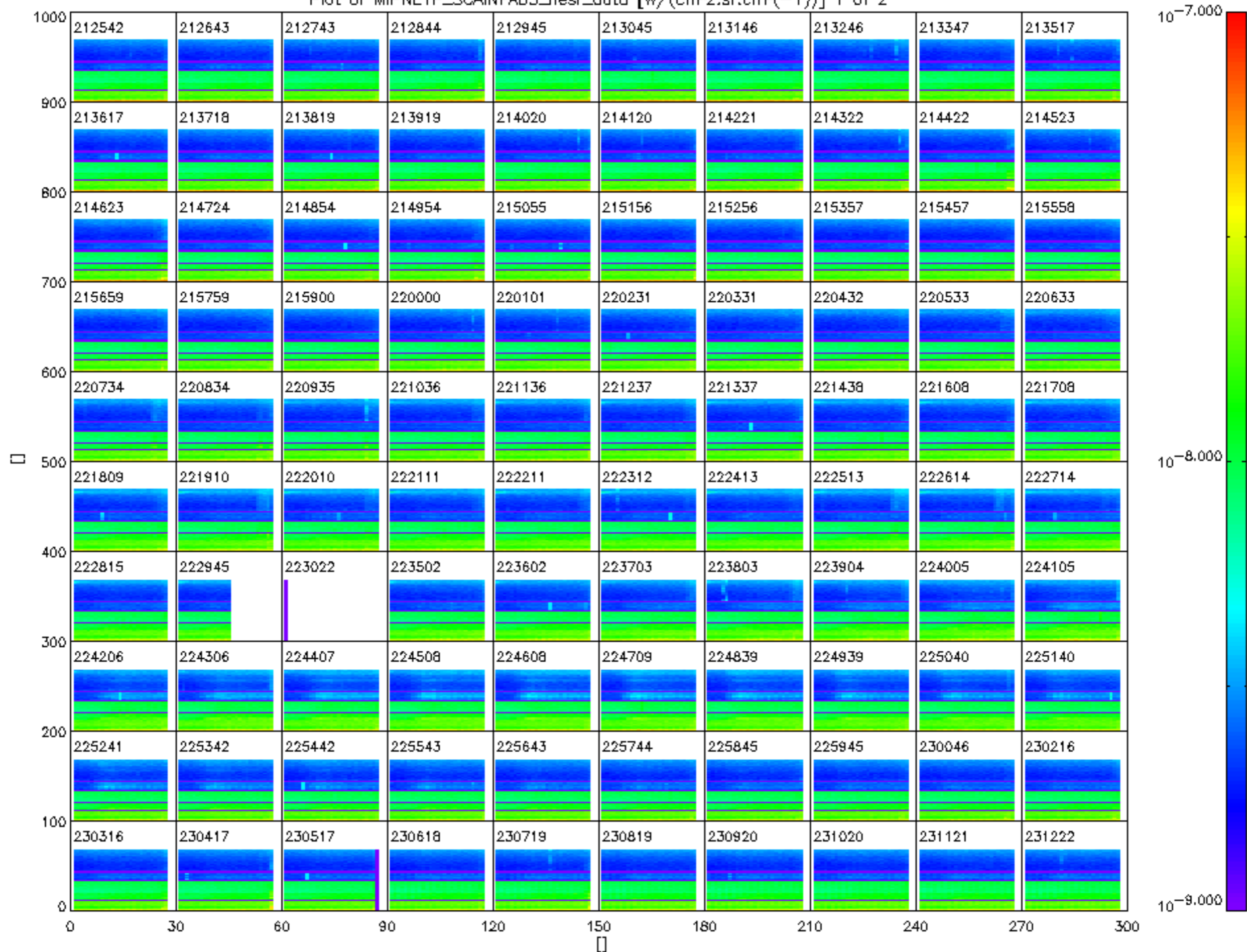
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector B



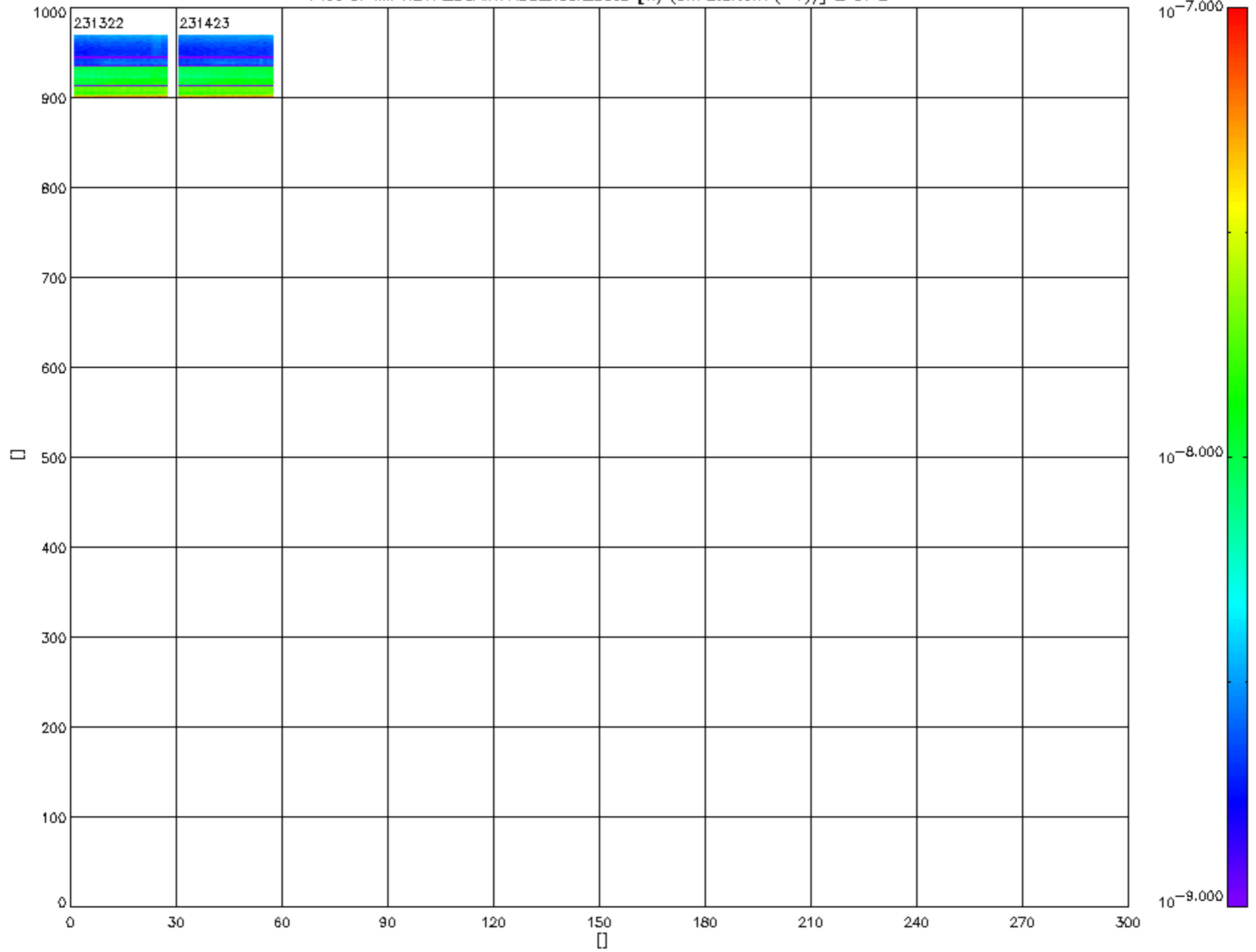
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector B



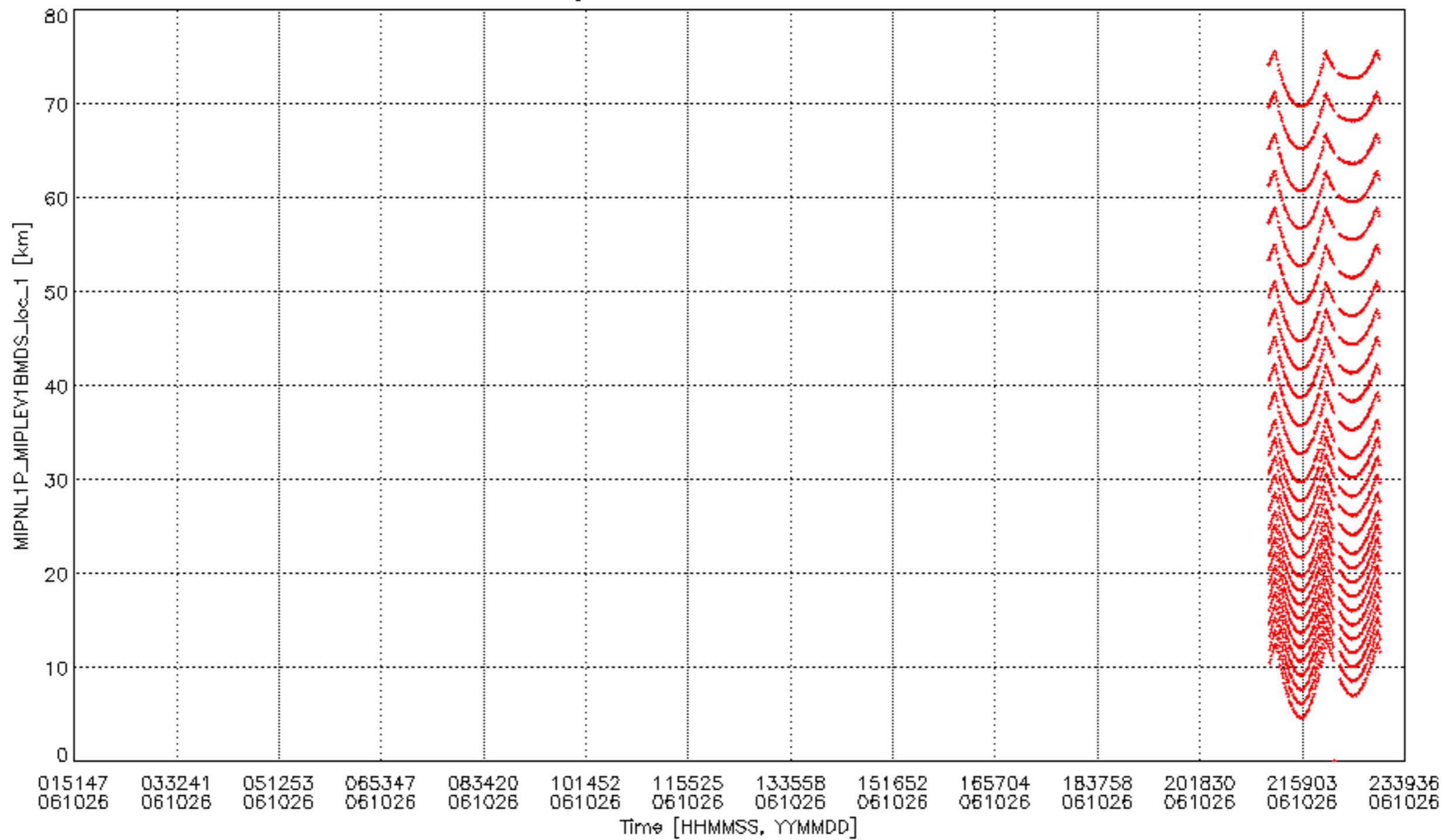
Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm².sr.cm⁻¹)] 1 of 2



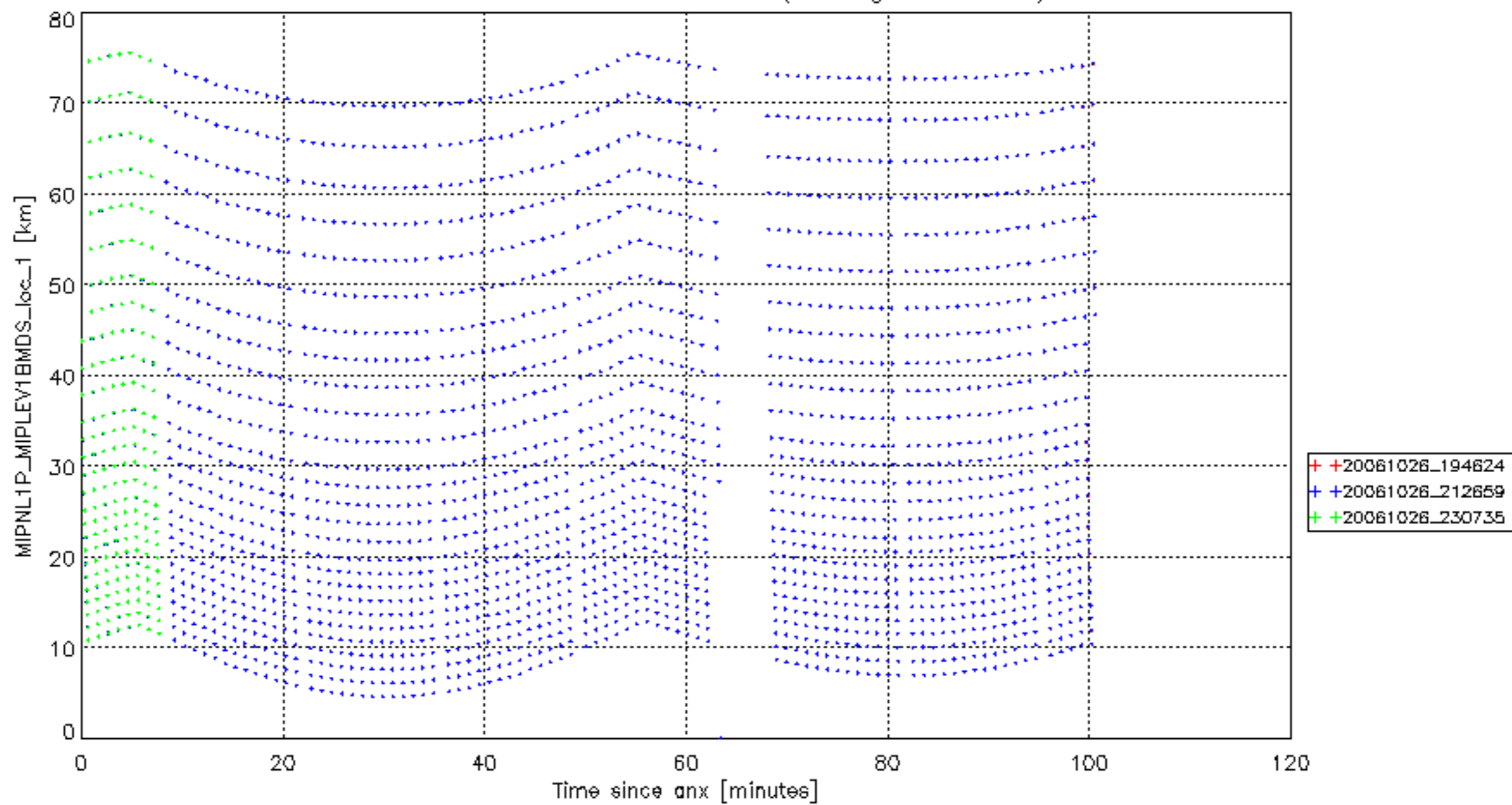
Plot of MIPNL1P_SCAINFADS_nesr_data [W/(cm².sr.cm⁻¹)] 2 of 2

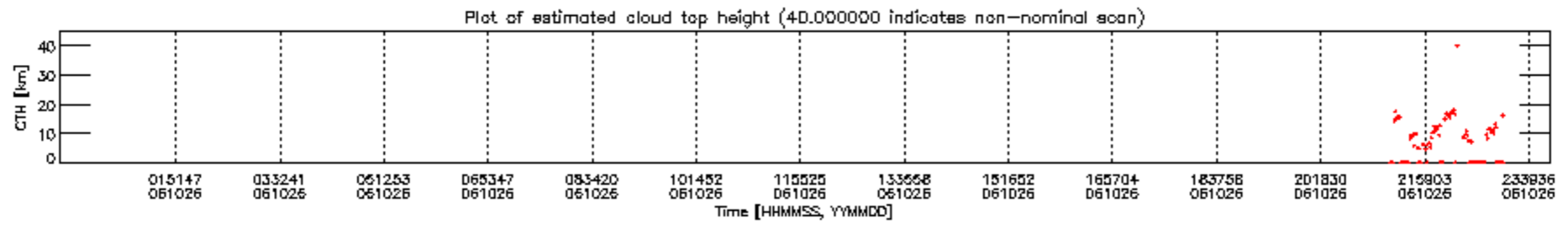


Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against time.
The vertical grid lines indicate estimated anx events.

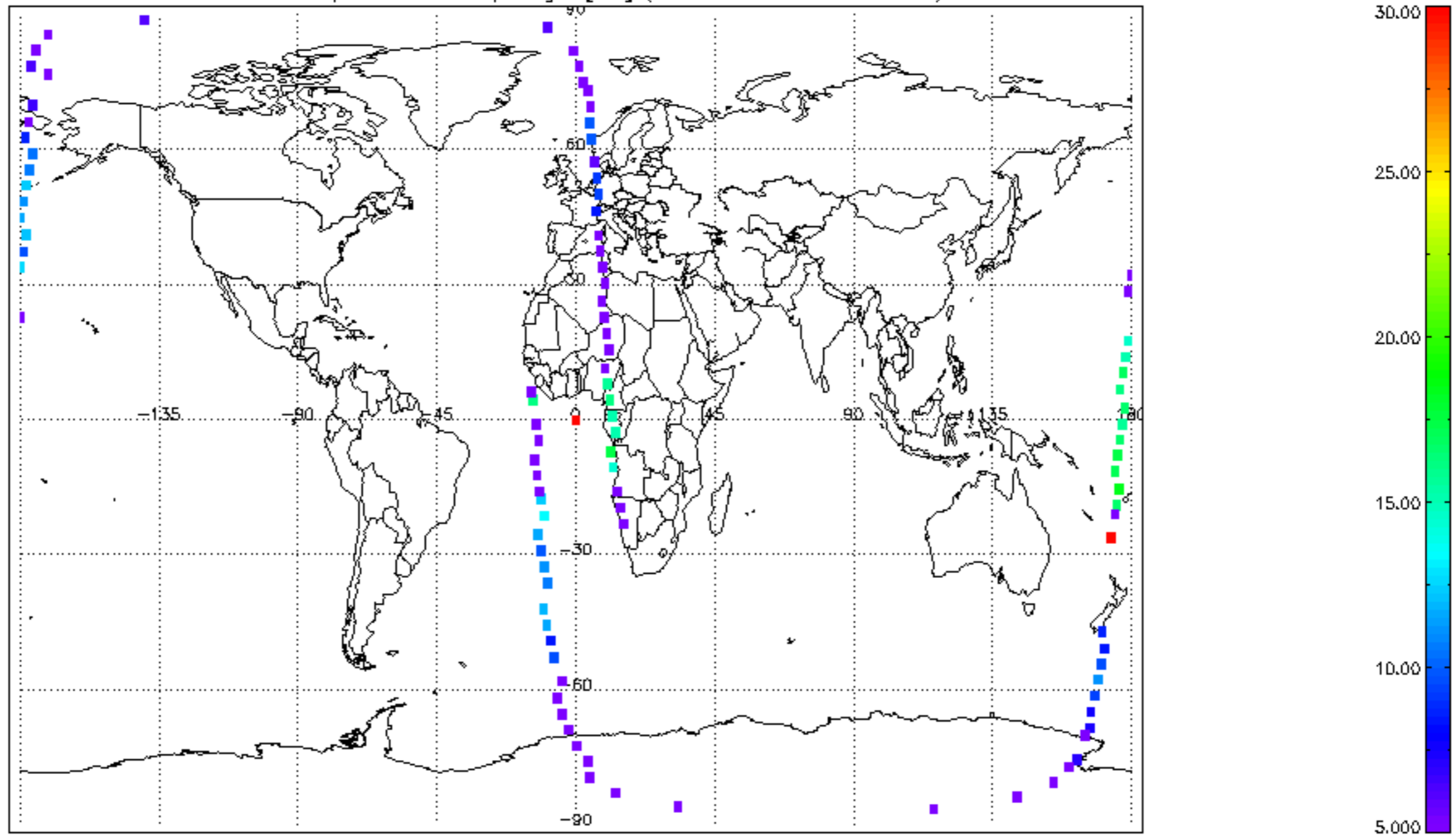


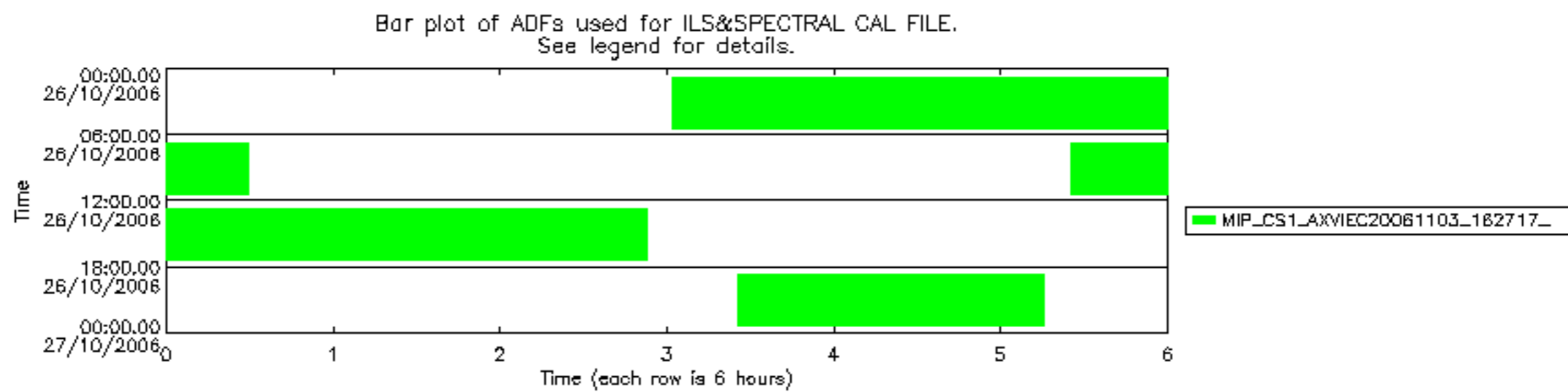
Plot of MIPNL1P_MIPLEV1BMDS_Joc_1 against relative time within orbit.
 The colours indicate distinct orbits (see legend for anx).

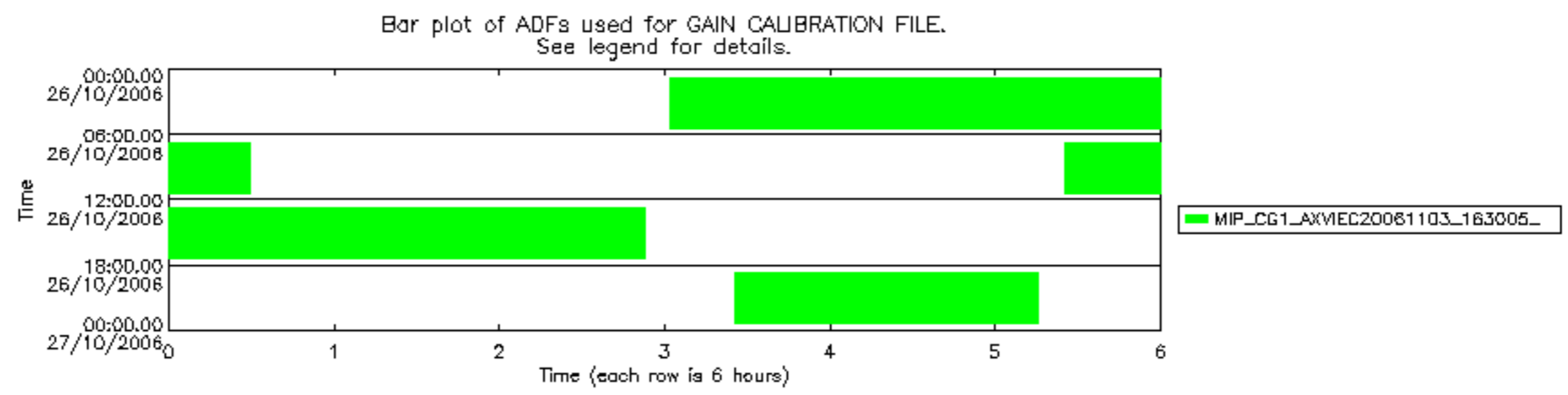


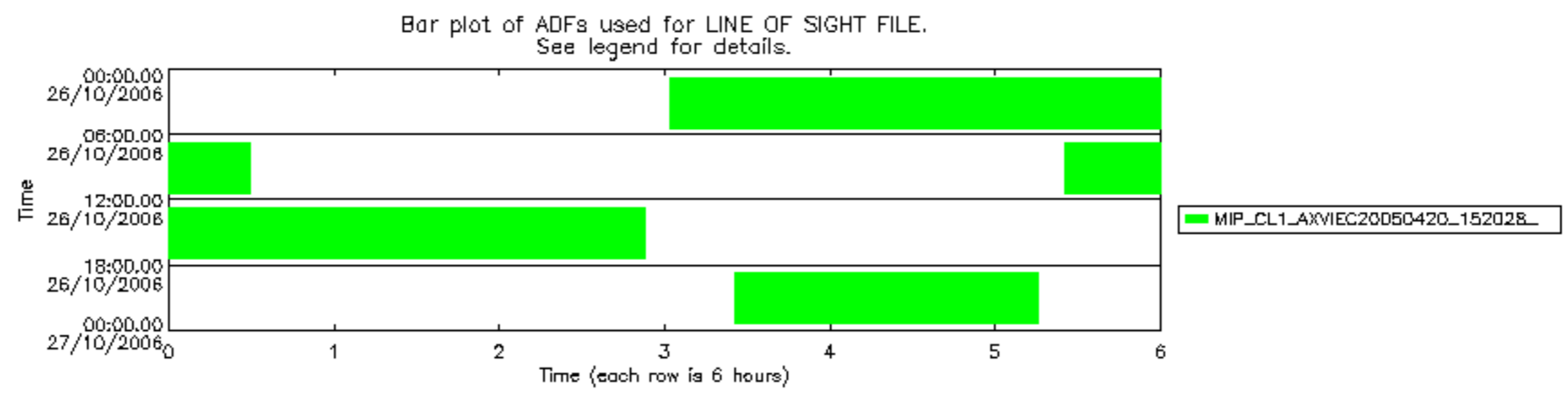


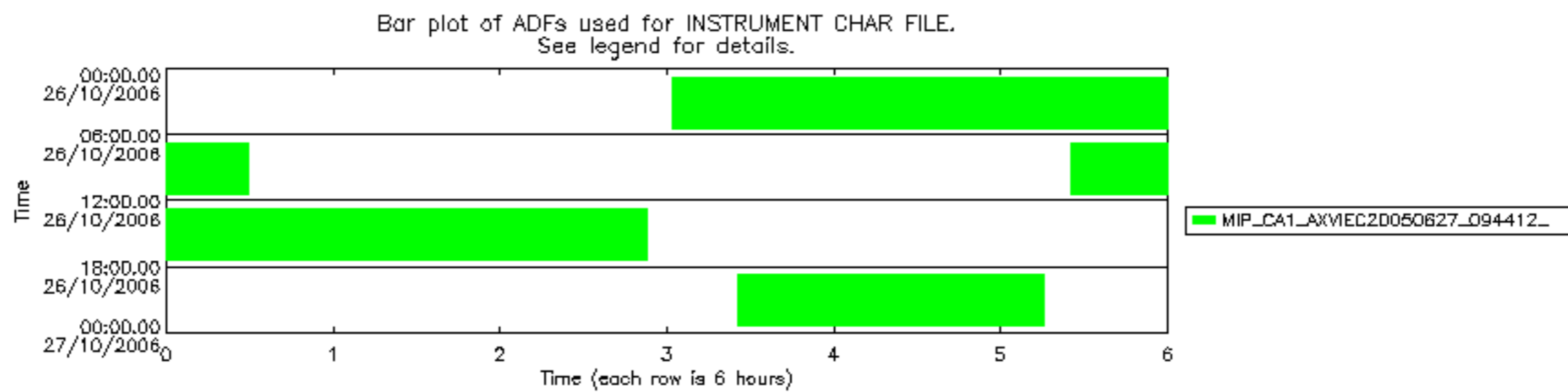
Geolocation plot of cloud top height [km] (non-nominal scans are red)











Bar plot of ADFs used for OFFSET VALIDATION FILE.
See legend for details.

