

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	15DEC2007 02:18:36
Data source version	MIPAS/4.67-P
Processing scope for products	29NOV2007 00:00:00 to 30NOV2007 00:00:00
Start time of first product within scope	29NOV2007 00:37:45
Stop time of last product within scope	29NOV2007 00:47:14
Total number of level 1 products	1
Number of level 1 products with errors	0

1.1.2 Summary per product

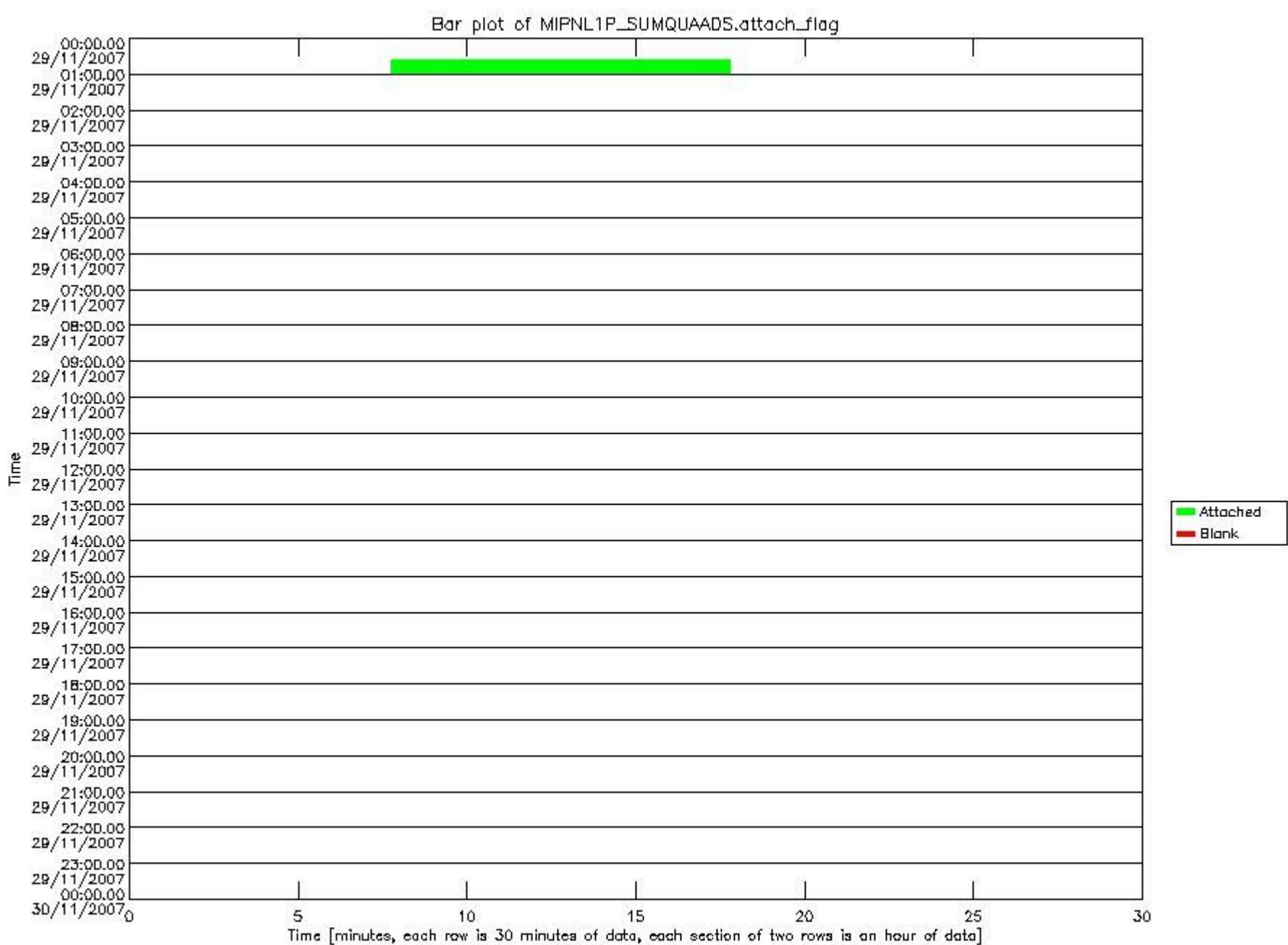
The following table shows a summary for each product used in this report.

#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)
0	MIP_NL__1PPDPA20071129_003745_000005692063_00432_30045_5557.N1	29NOV2007 00:37:45	29NOV2007 00:47:14	0	1/1

1.2 Product Quality Indicators

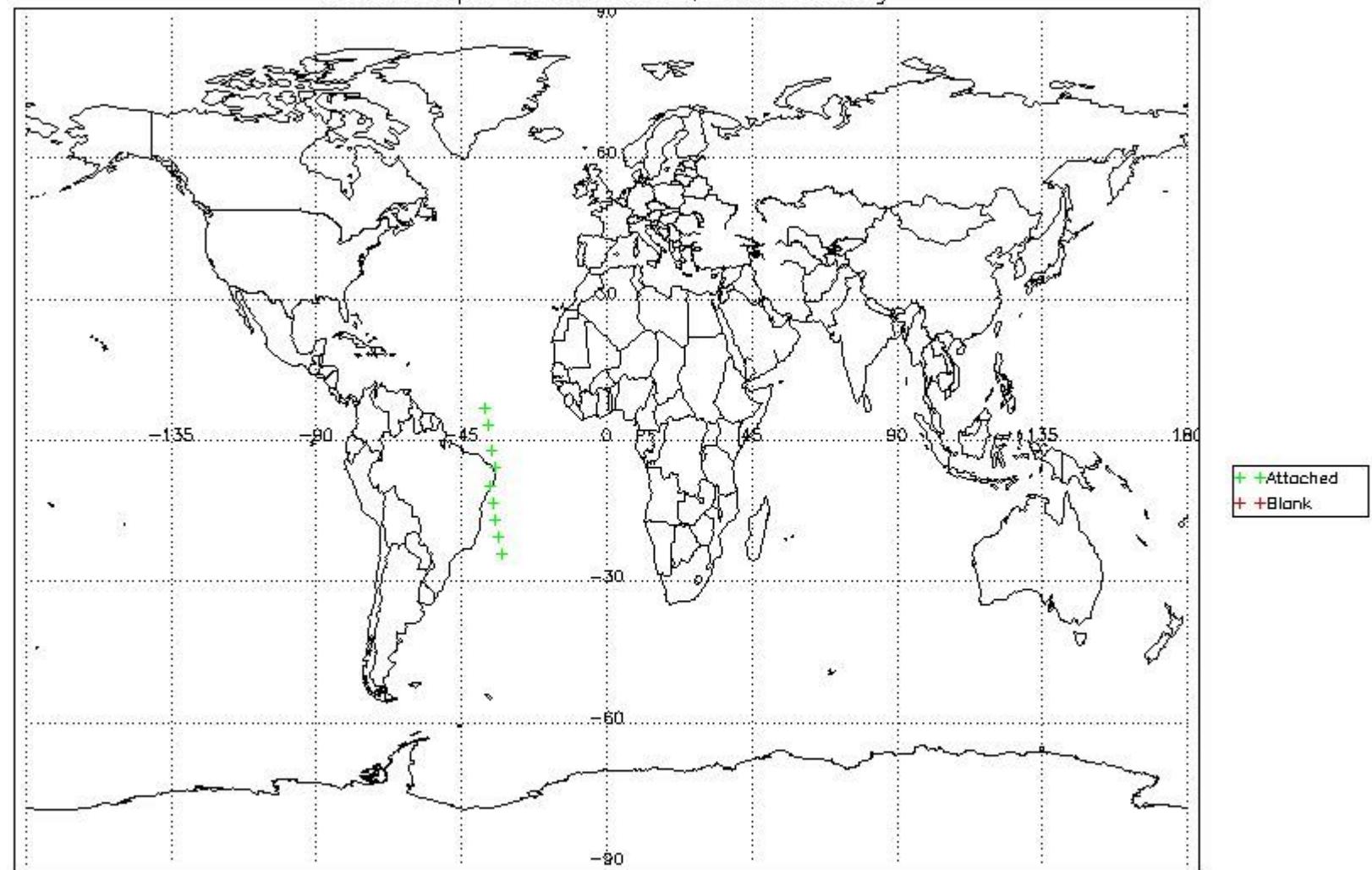
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

1.2.1 Trends and geolocation of Summary Quality ADS

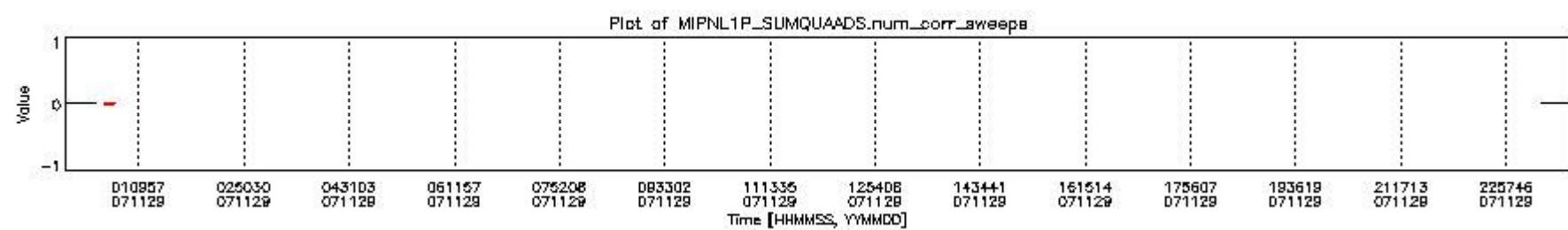


mipas_daily_report_level1_MIPAS_4_67_P_20071129_0.PNG

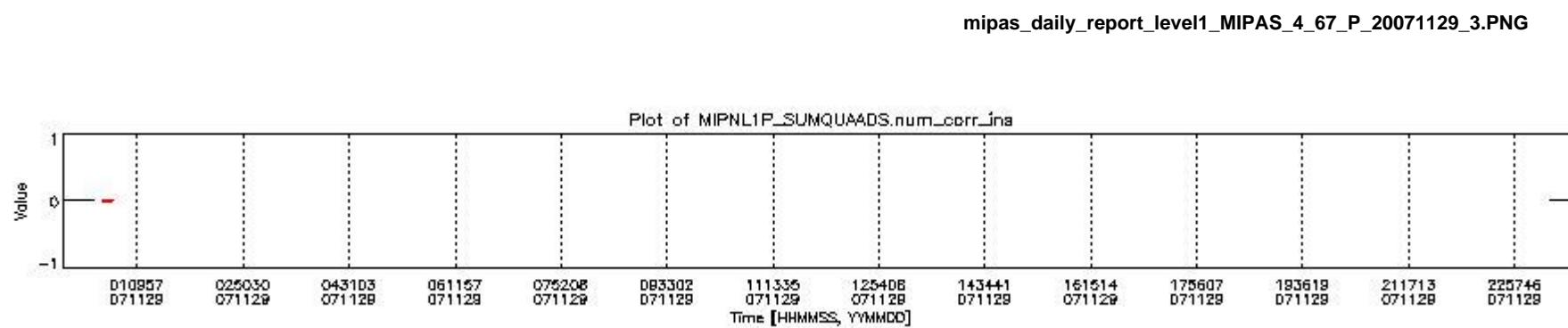
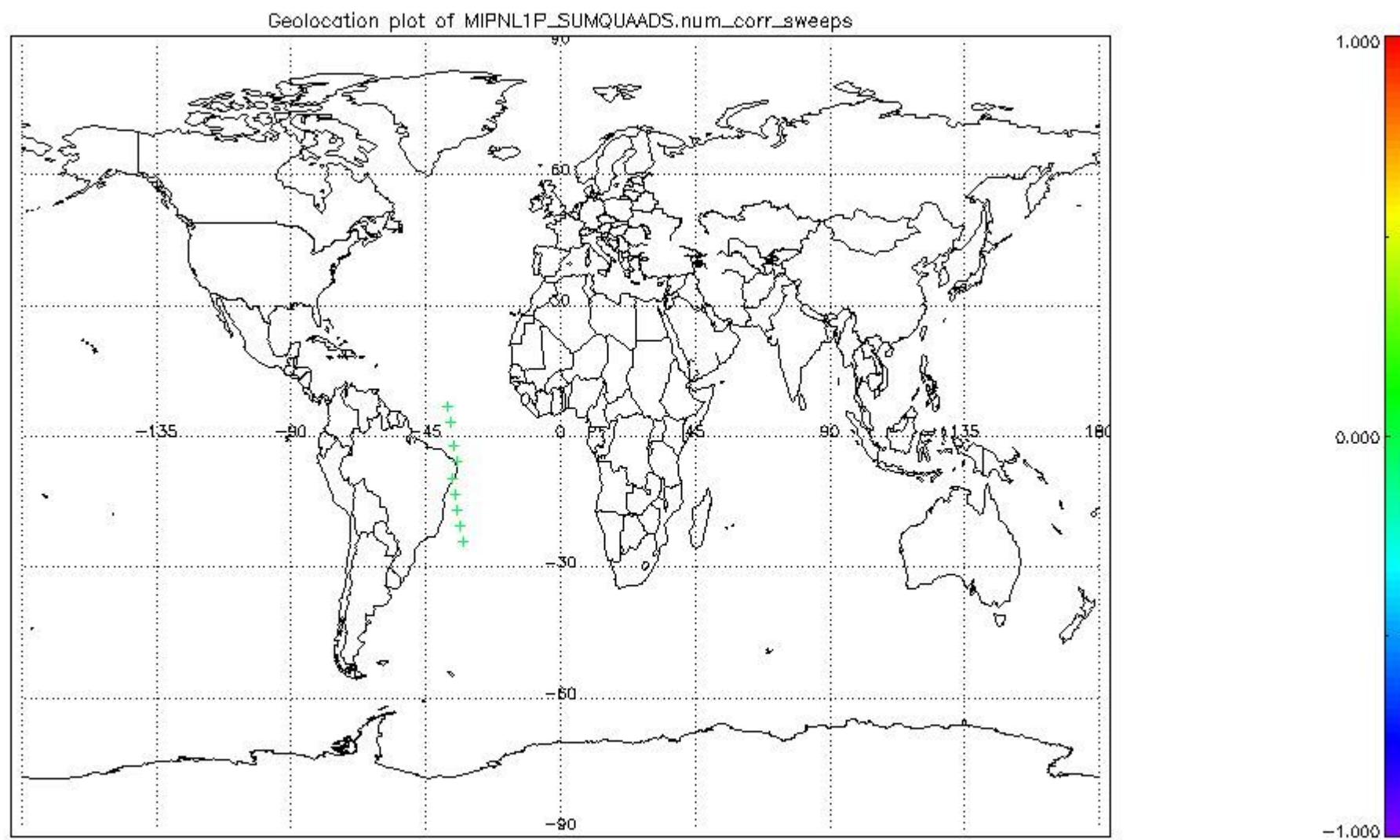
Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag



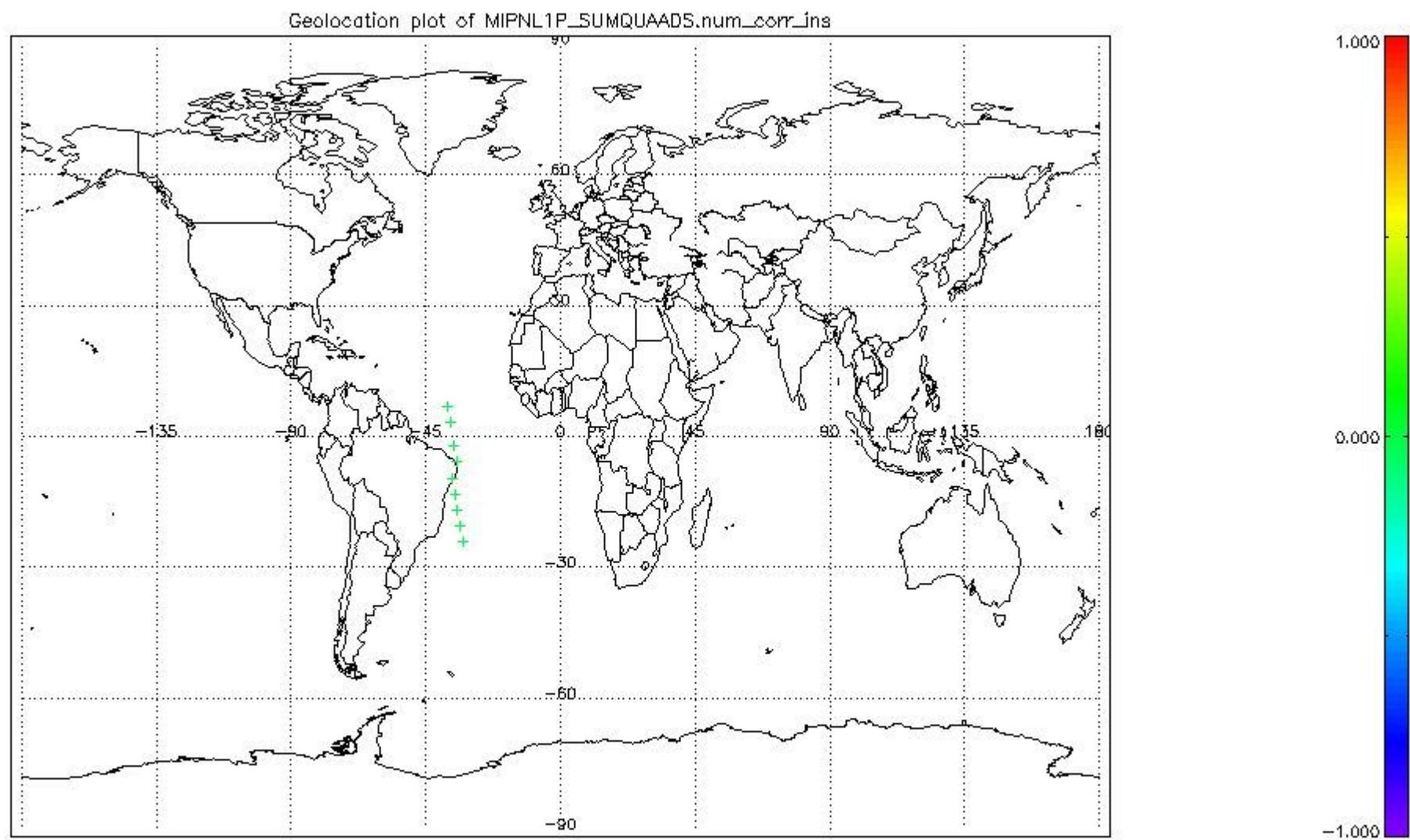
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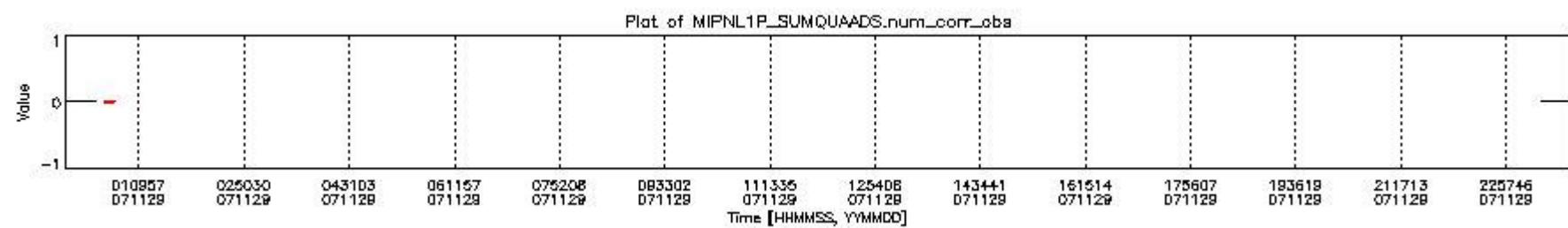
mipas_daily_report_level1_MIPAS_4_67_P_20071129_2.PNG



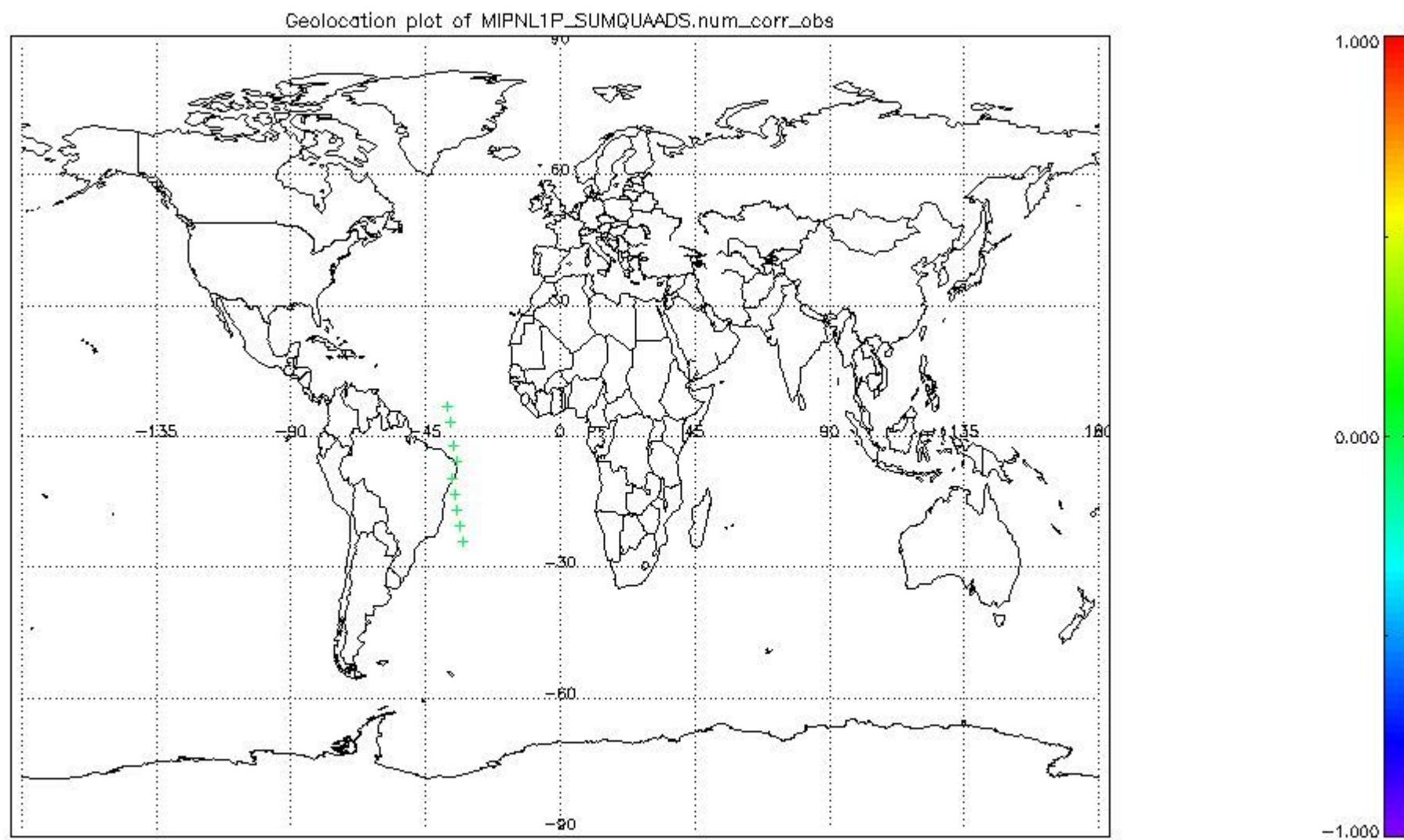
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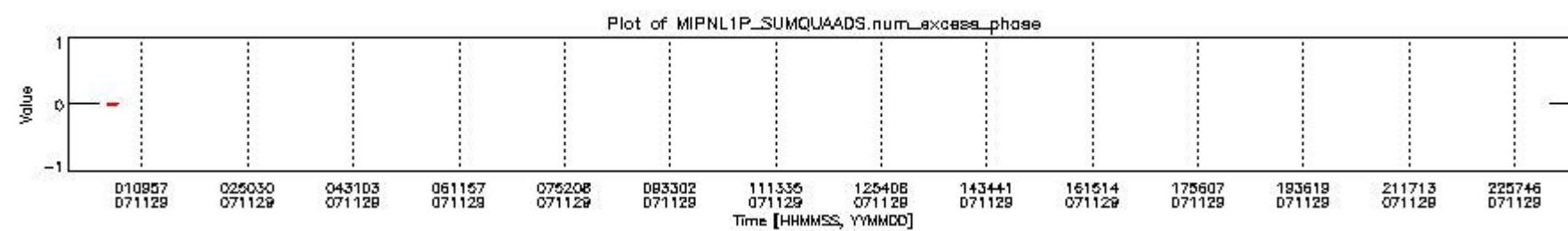
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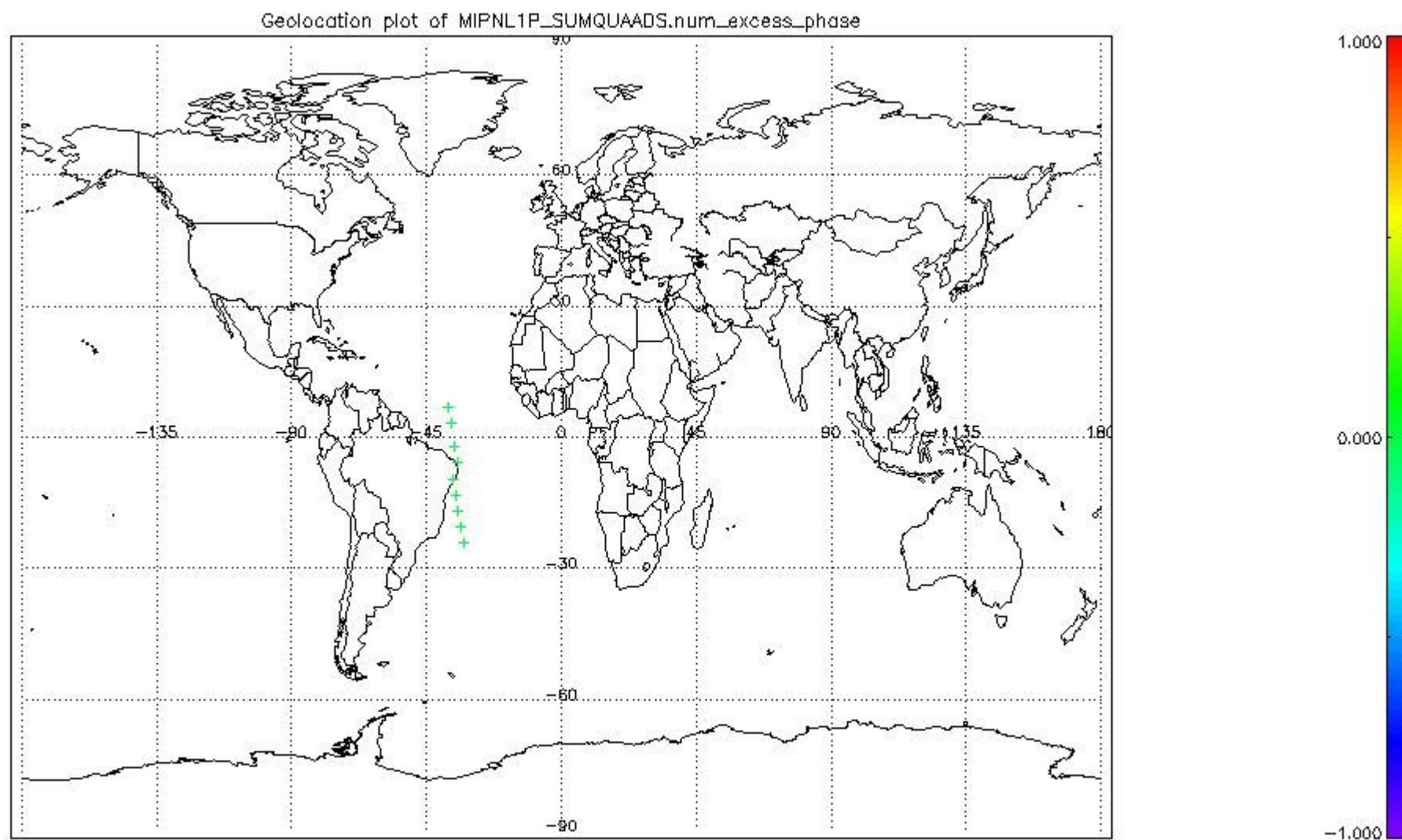
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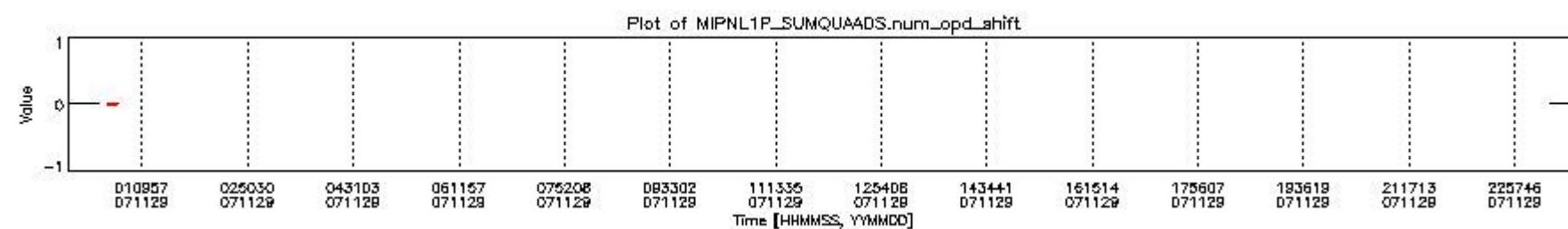
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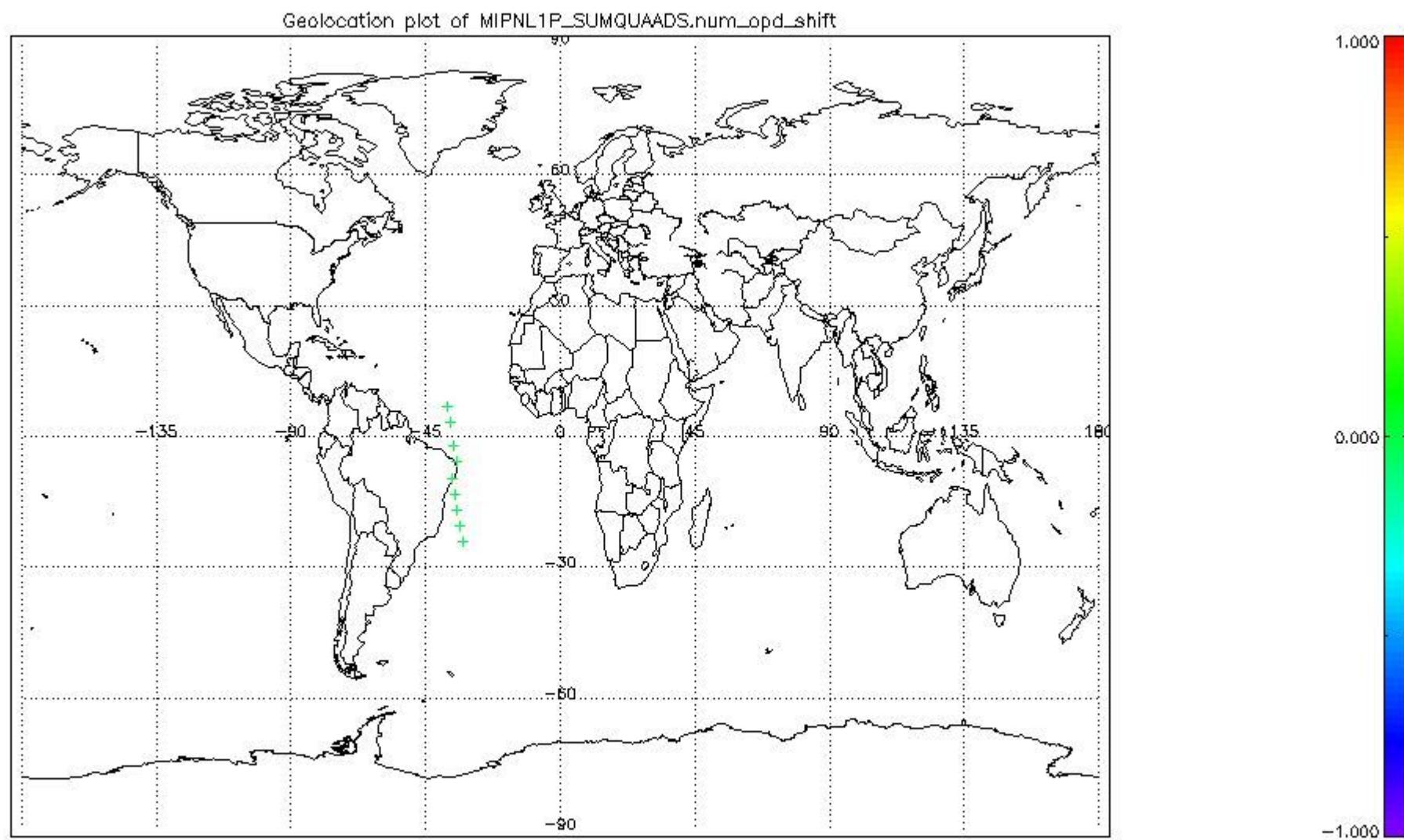
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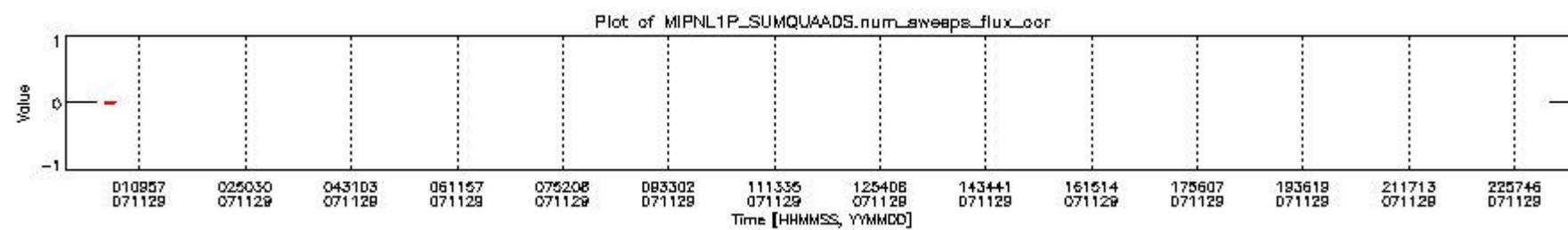
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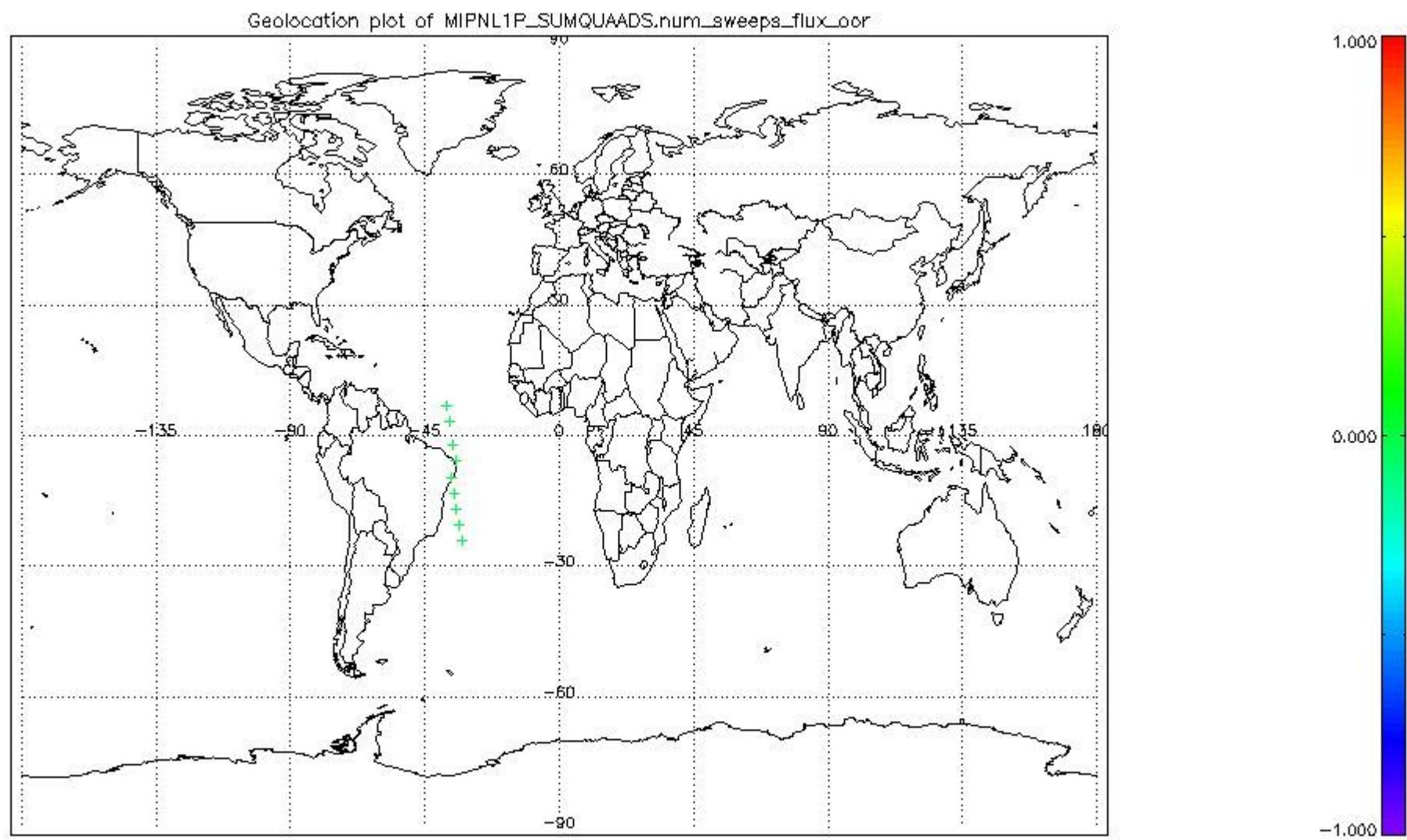
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mipas_daily_report_level1_MIPAS_4_67_P_20071129_11.PNG

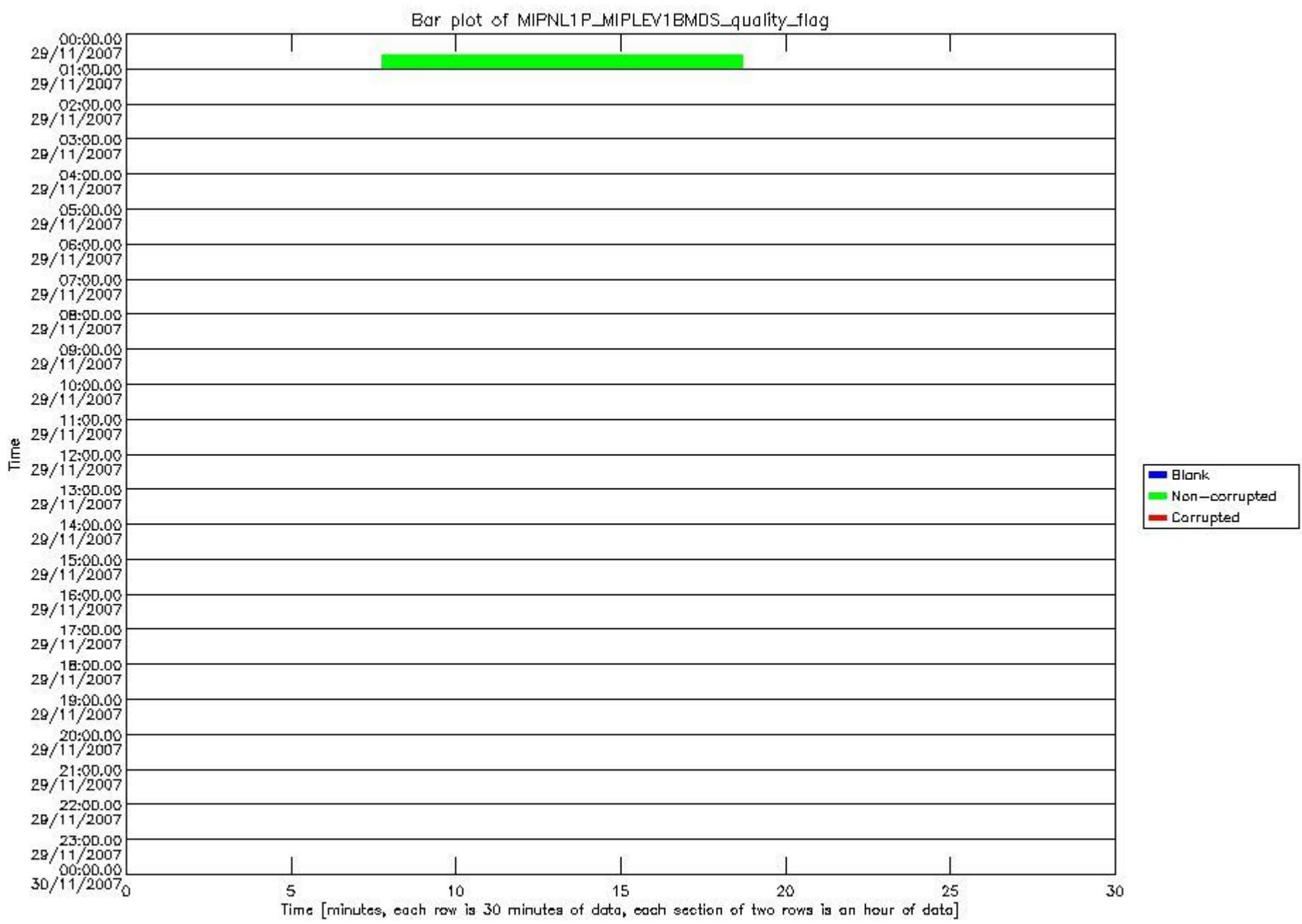


mipas_daily_report_level1_MIPAS_4_67_P_20071129_12.PNG



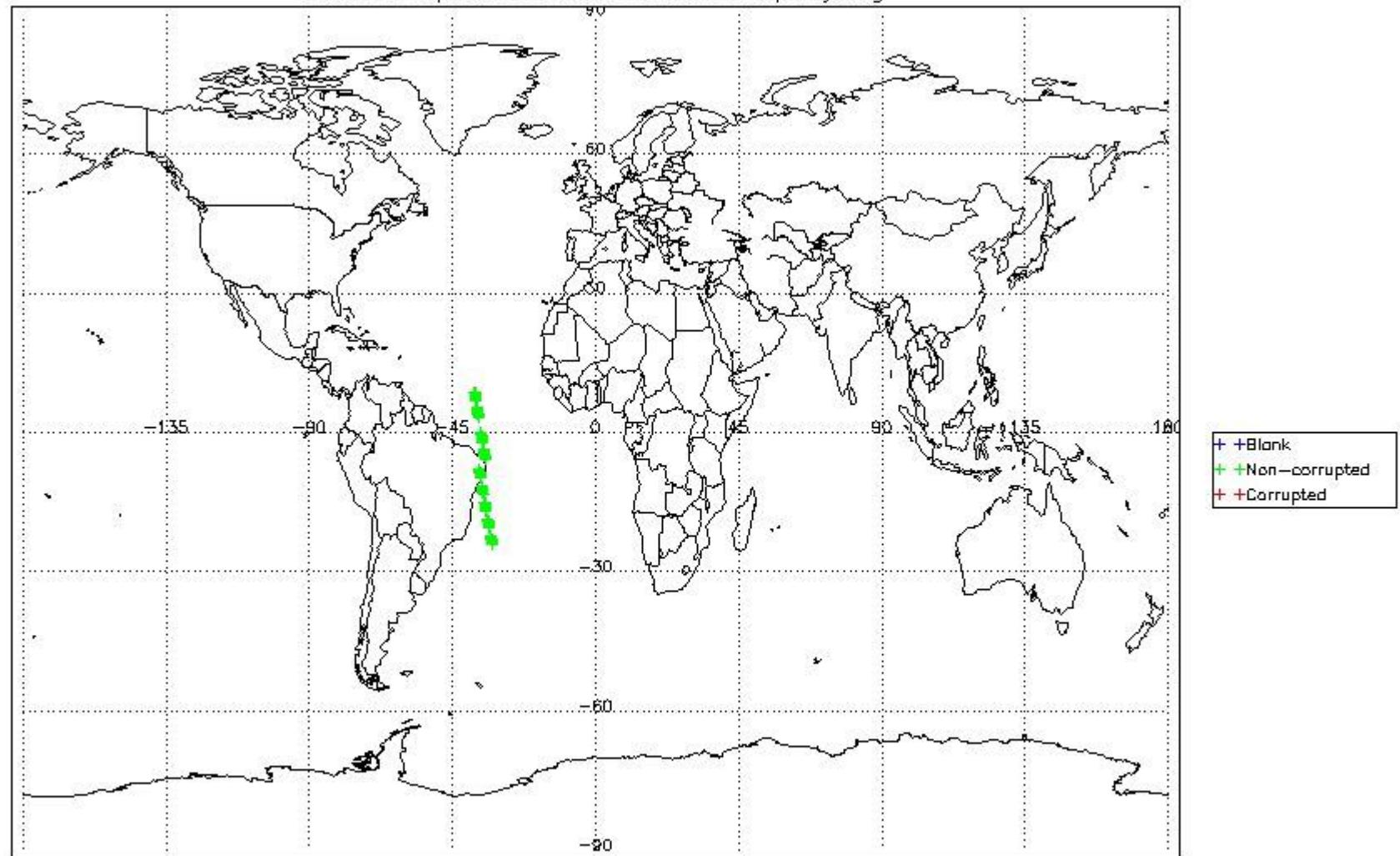
mipas_daily_report_level1_MIPAS_4_67_P_20071129_13.PNG

1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

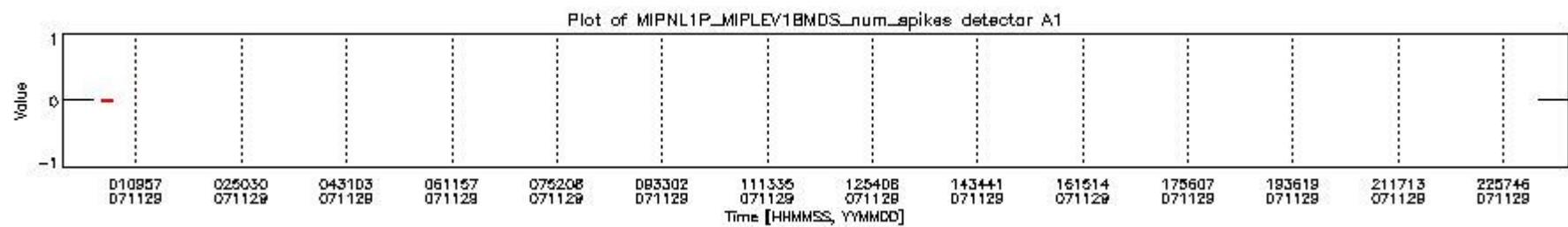


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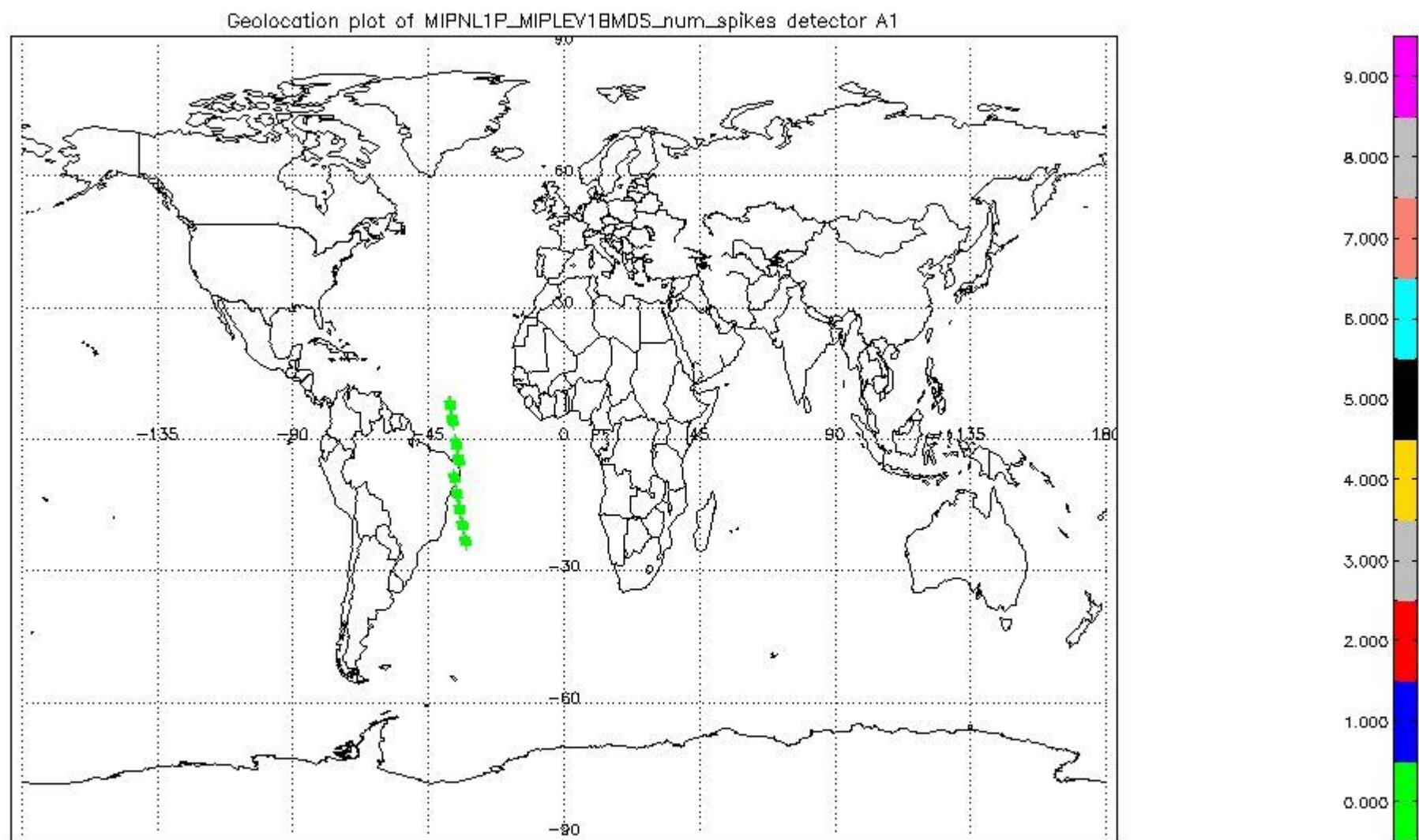
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag



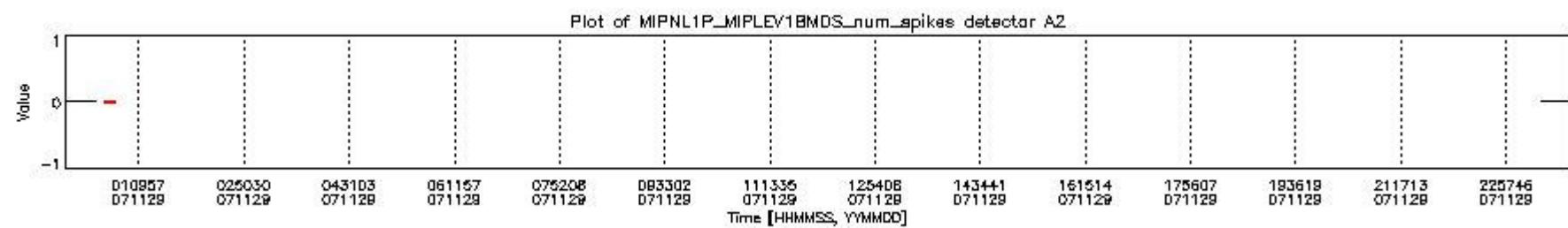
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mipas_daily_report_level1_MIPAS_4_67_P_20071129_16.PNG

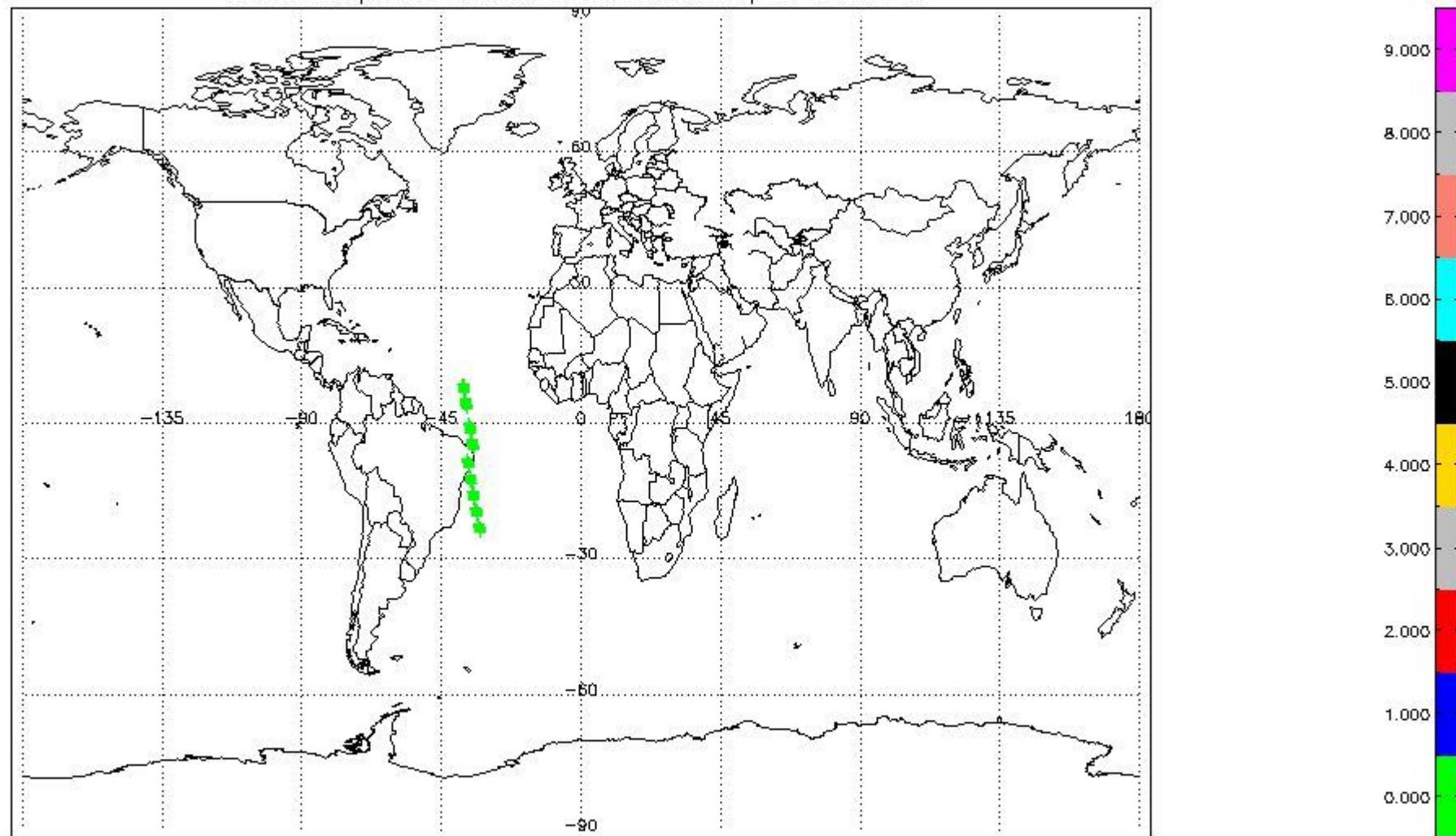


mipas_daily_report_level1_MIPAS_4_67_P_20071129_17.PNG

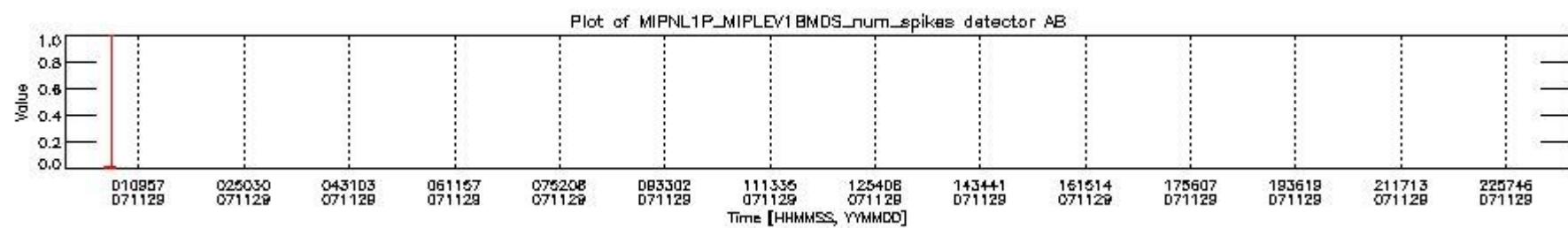


mipas_daily_report_level1_MIPAS_4_67_P_20071129_18.PNG

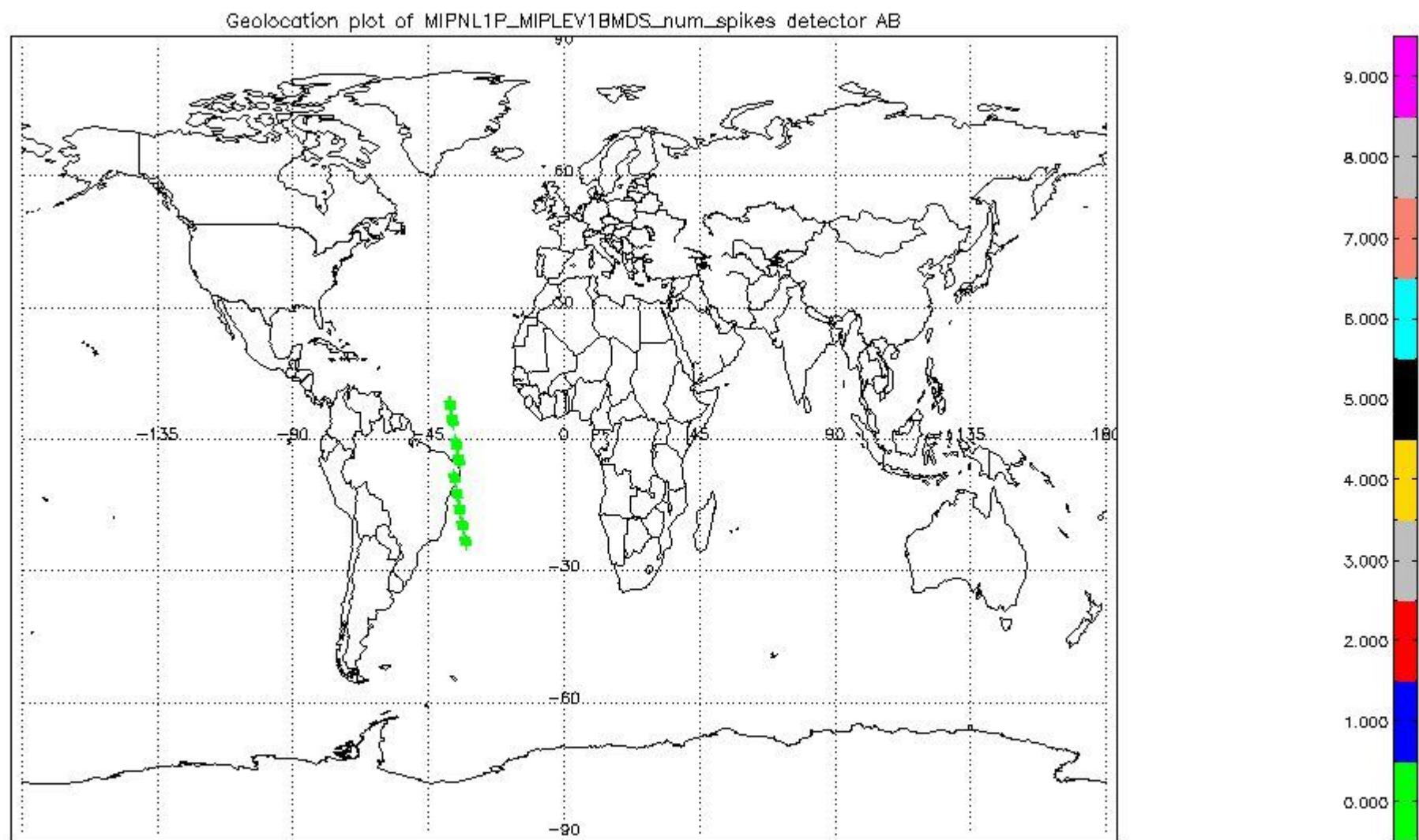
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2



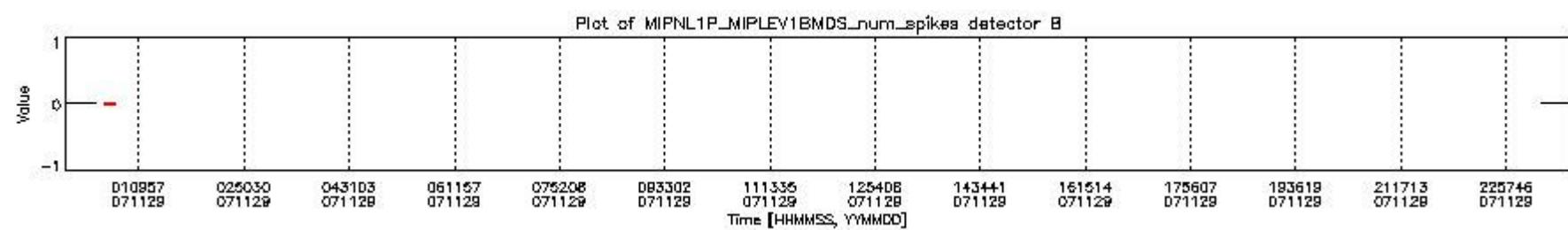
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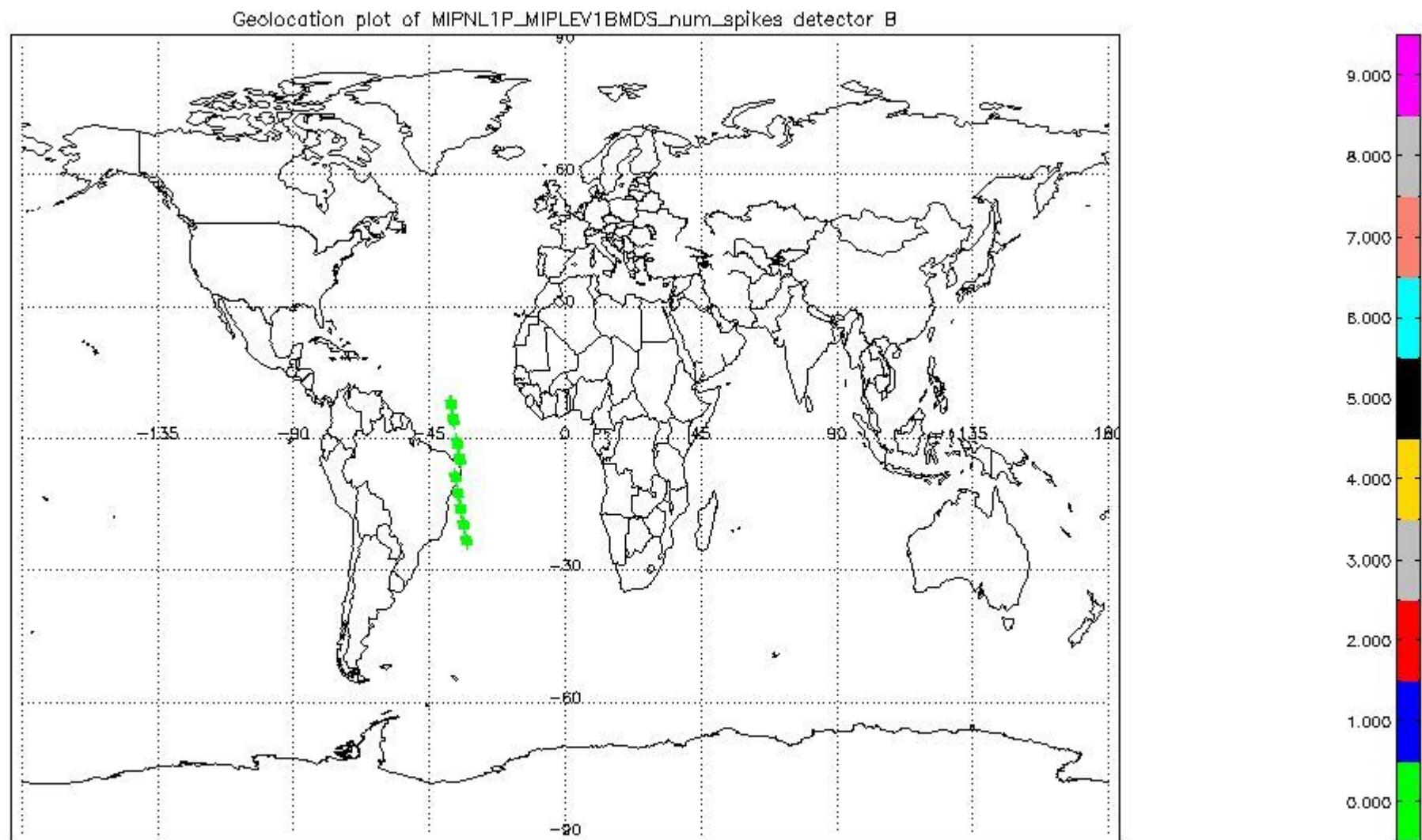
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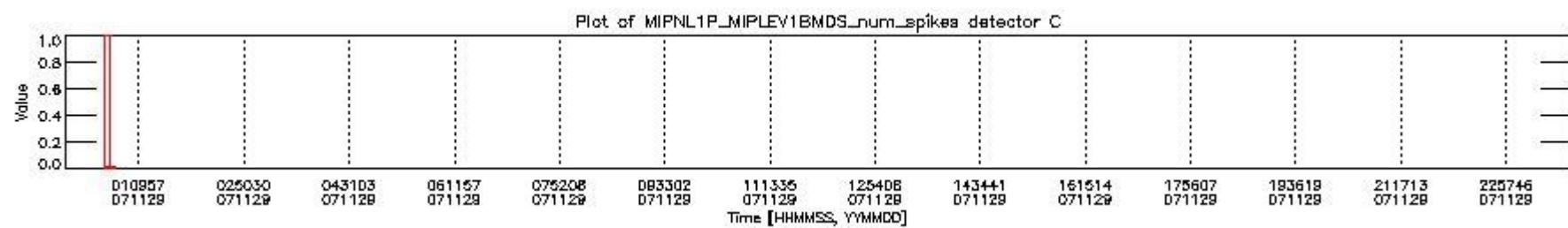
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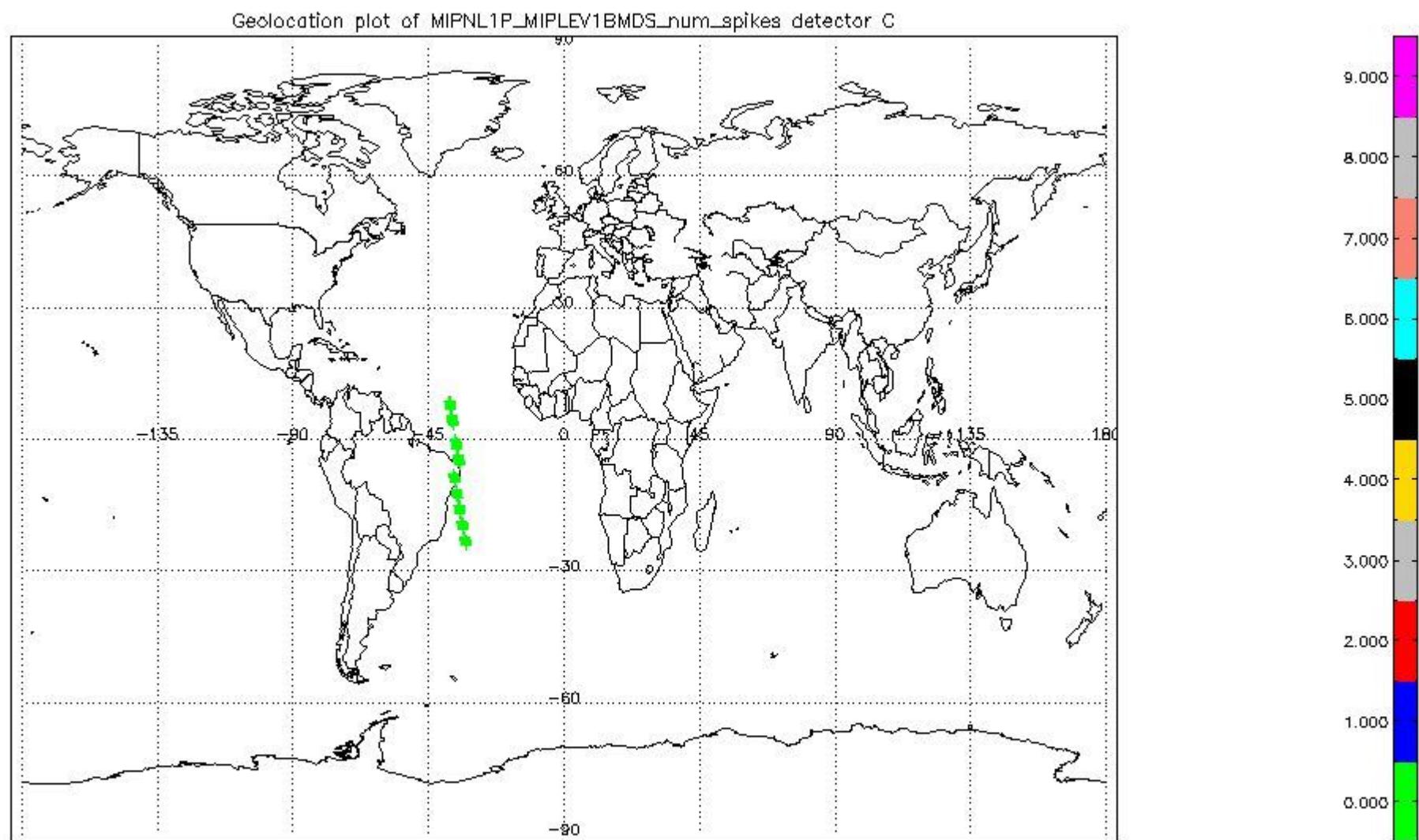
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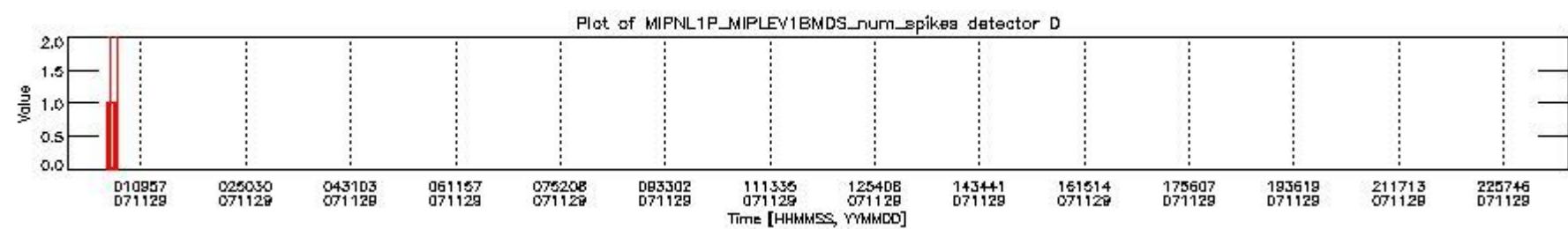
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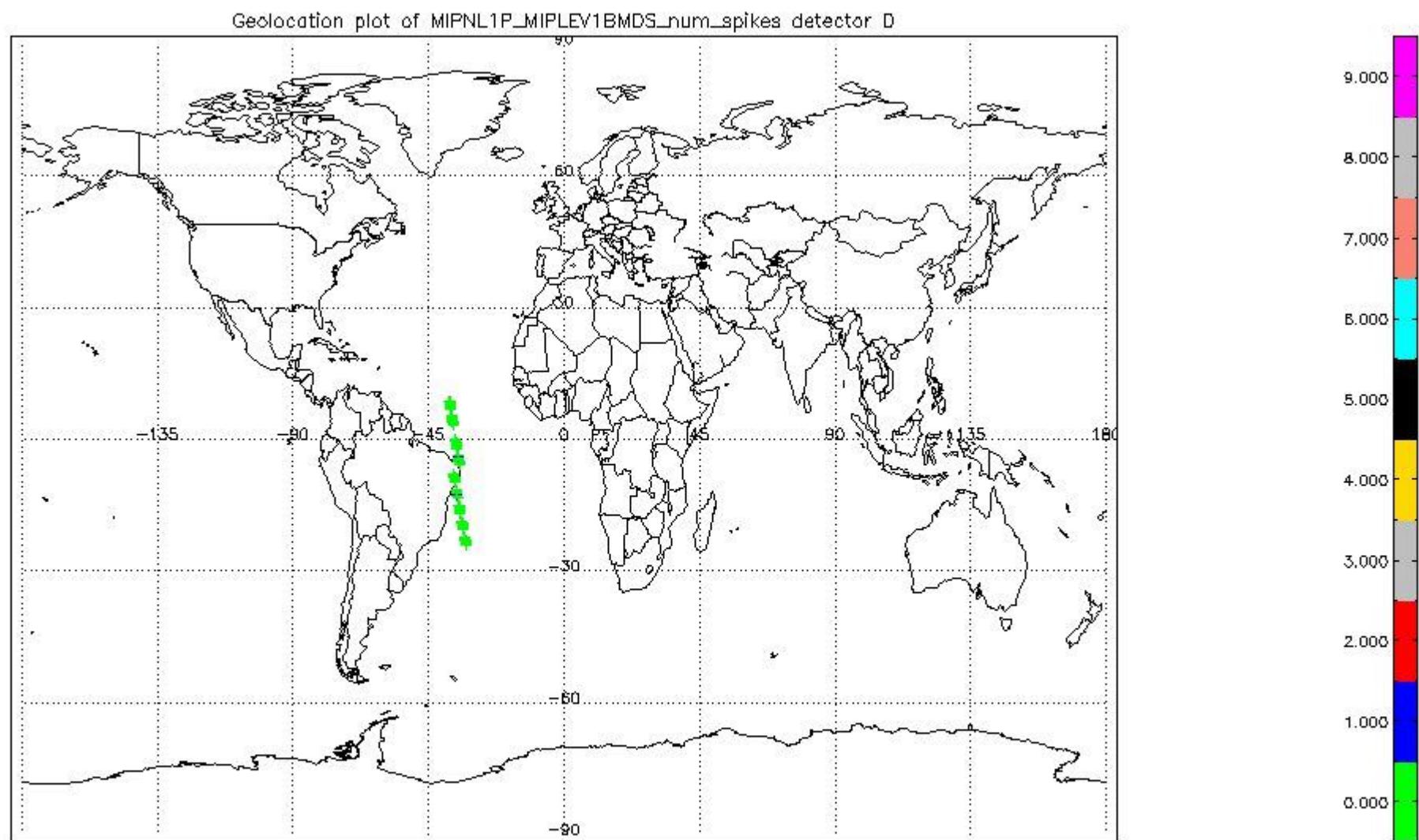
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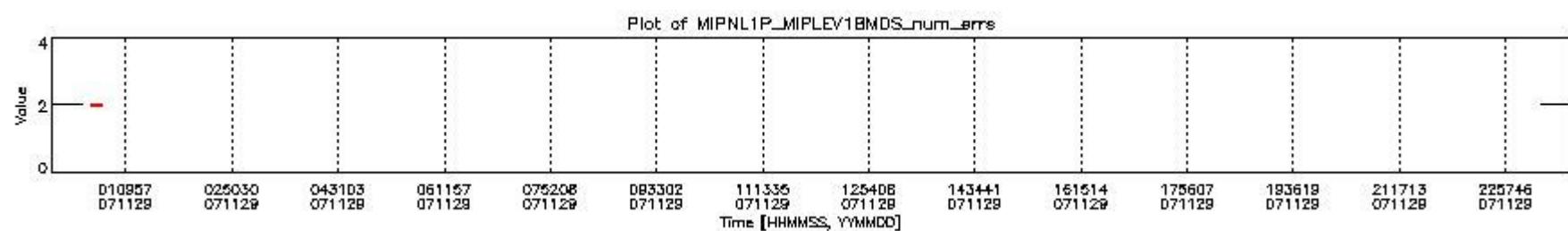
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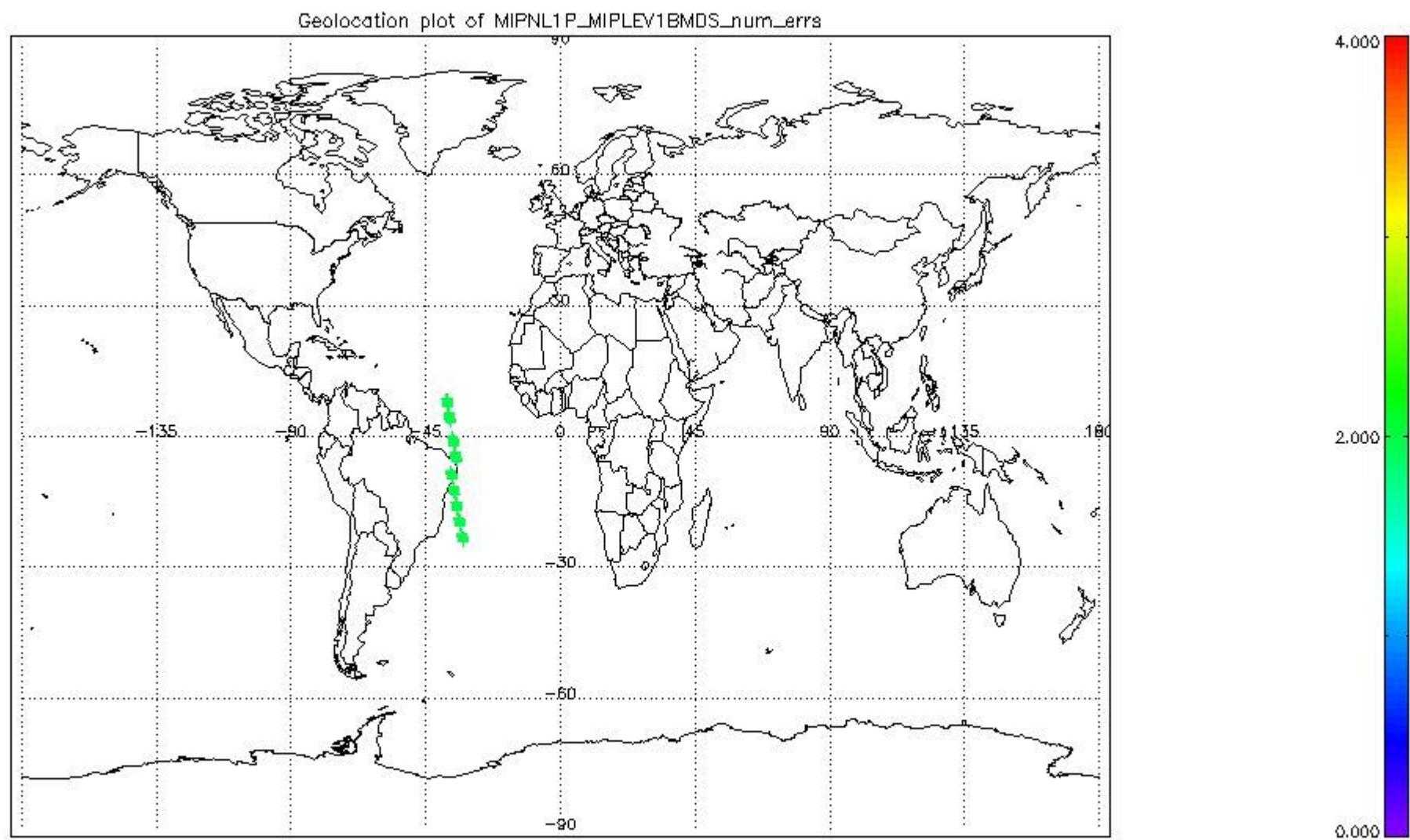
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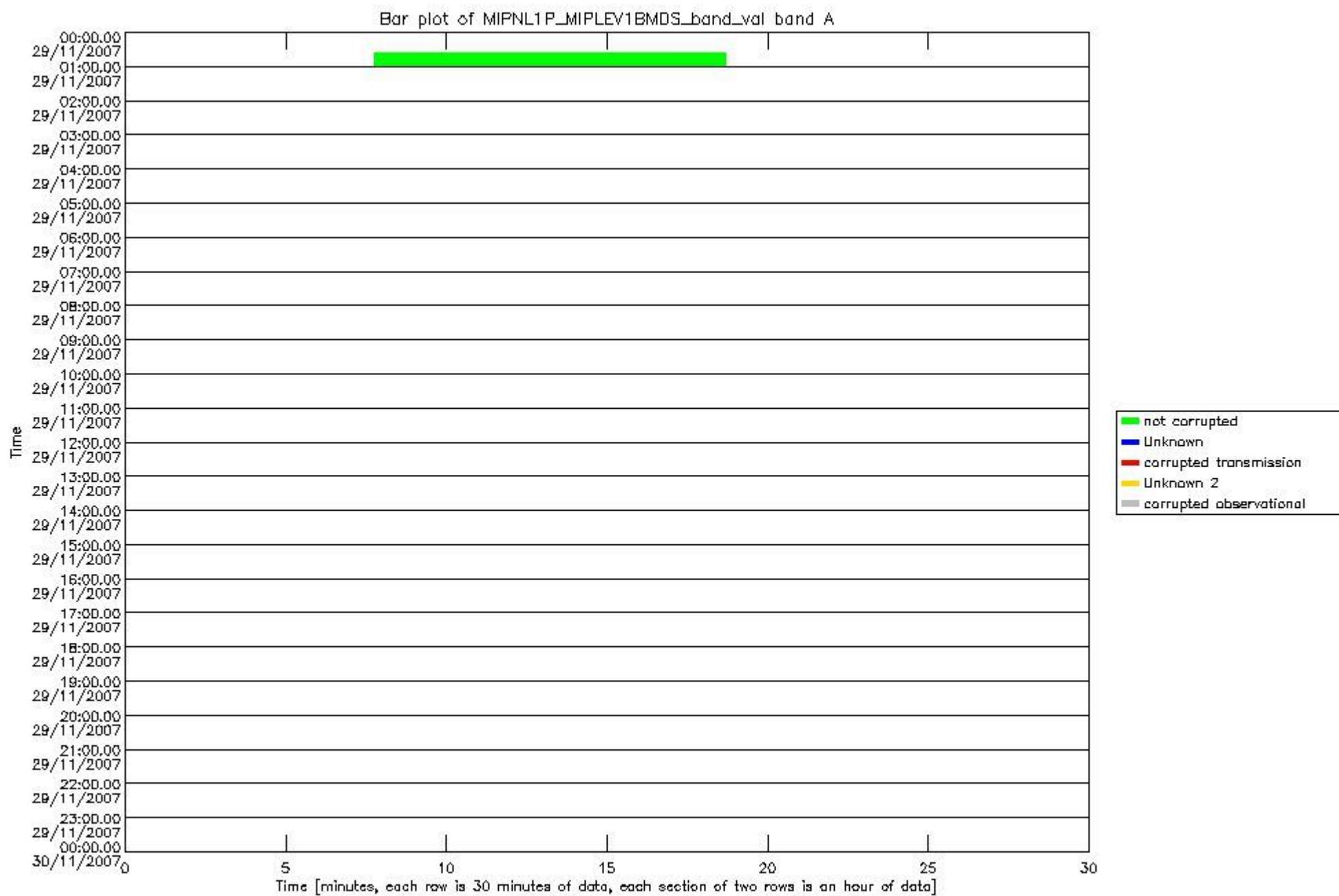
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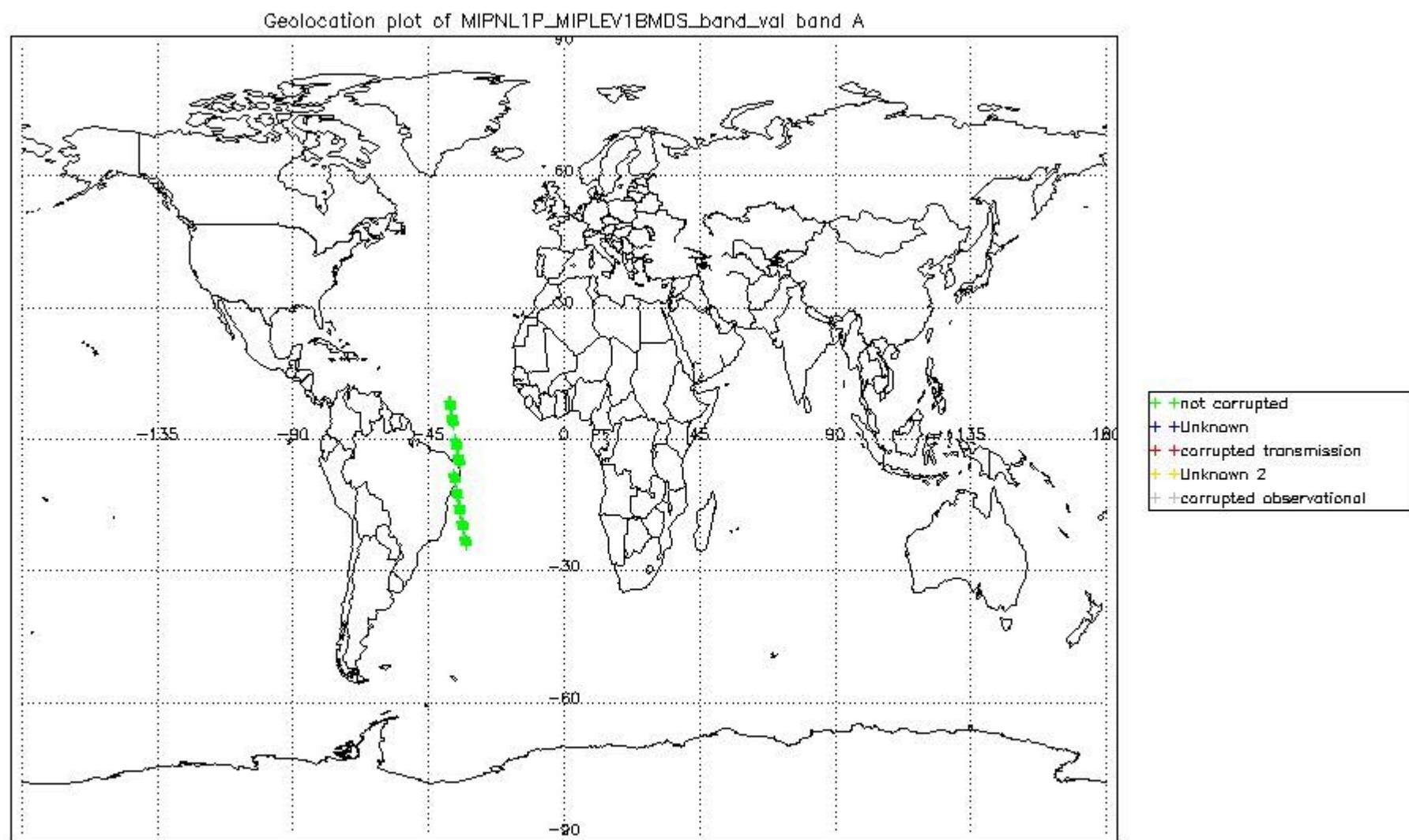
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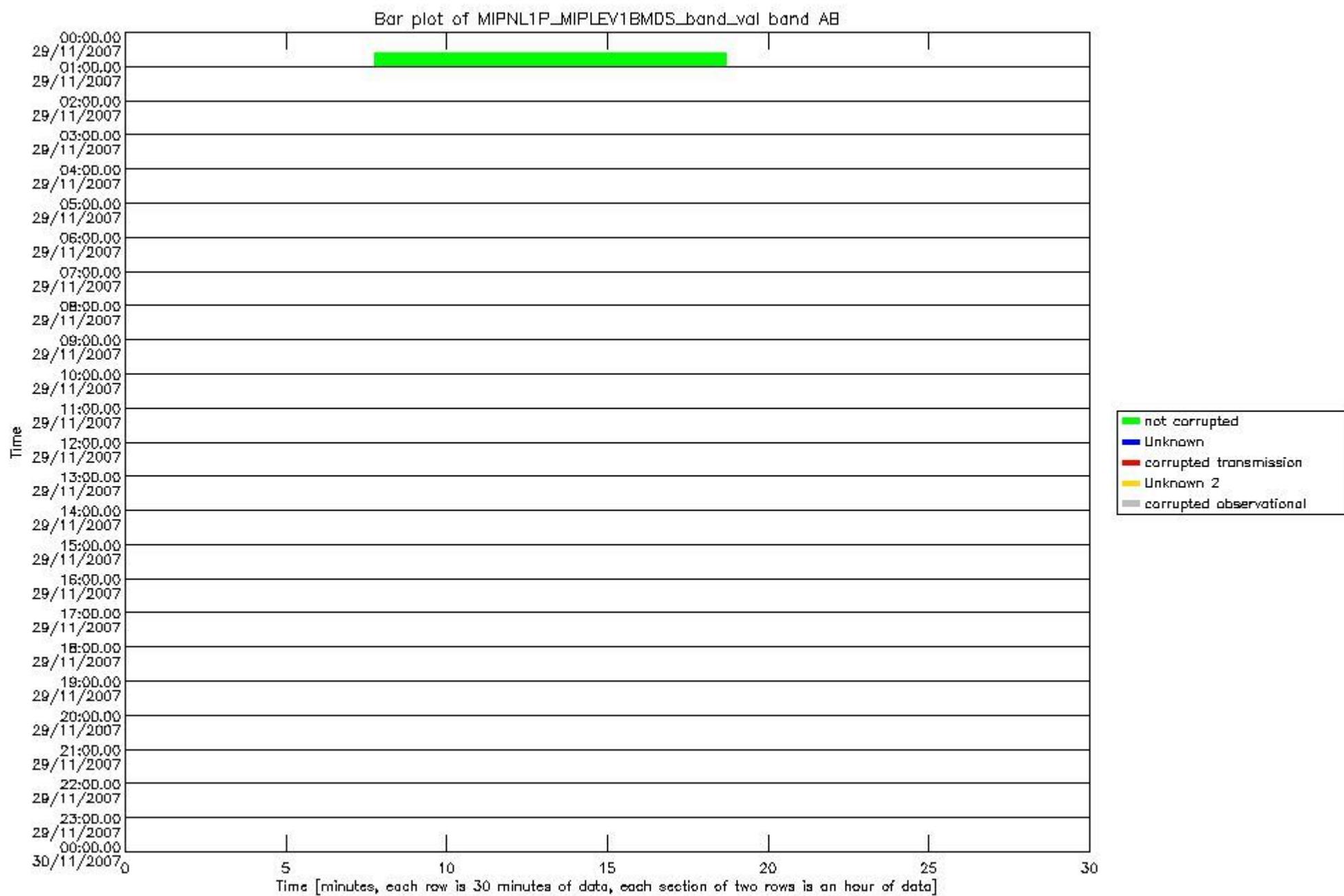
mipas_daily_report_level1_MIPAS_4_67_P_20071129_29.PNG



mipas_daily_report_level1_MIPAS_4_67_P_20071129_30.PNG

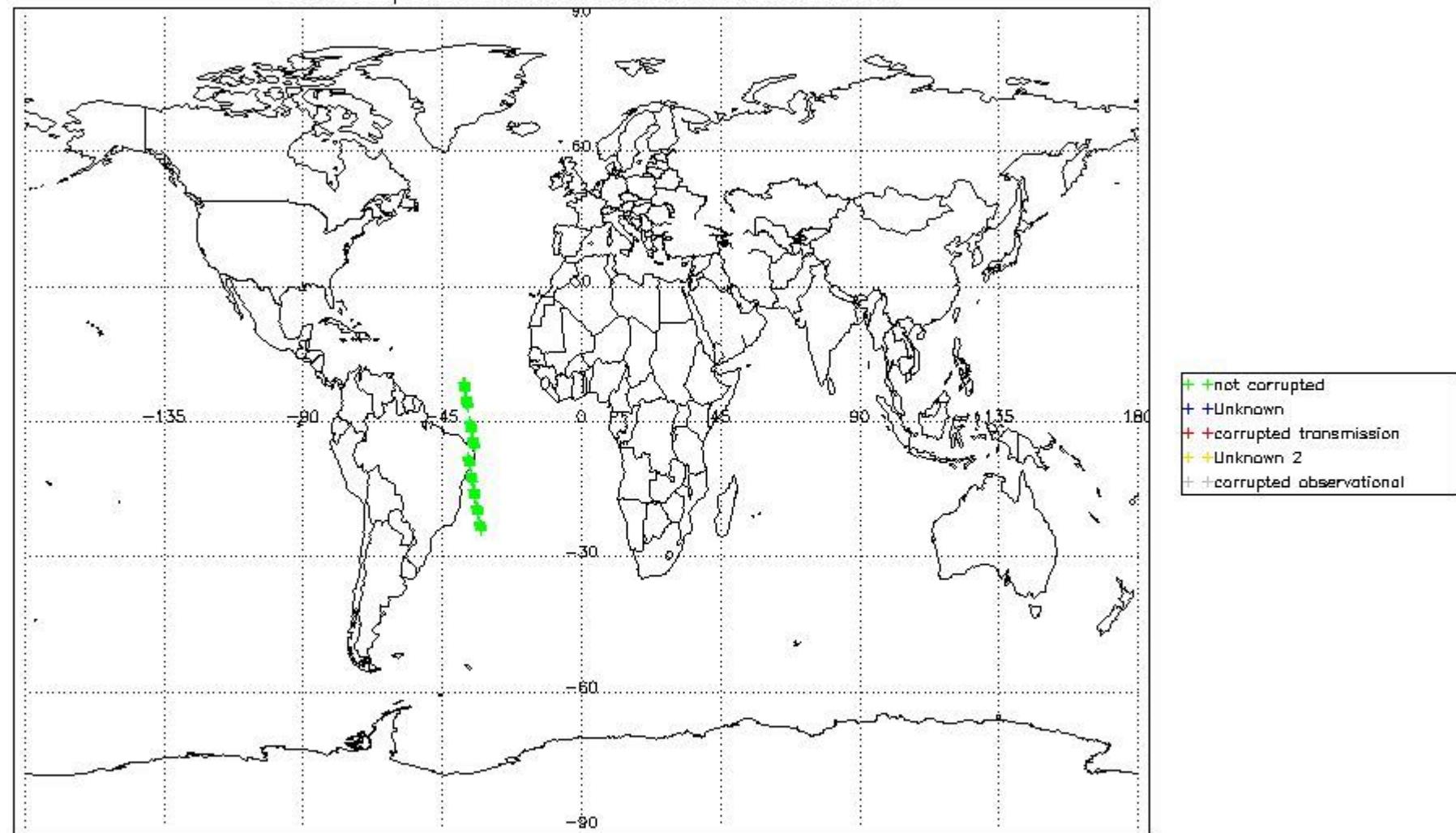


mipas_daily_report_level1_MIPAS_4_67_P_20071129_31.PNG

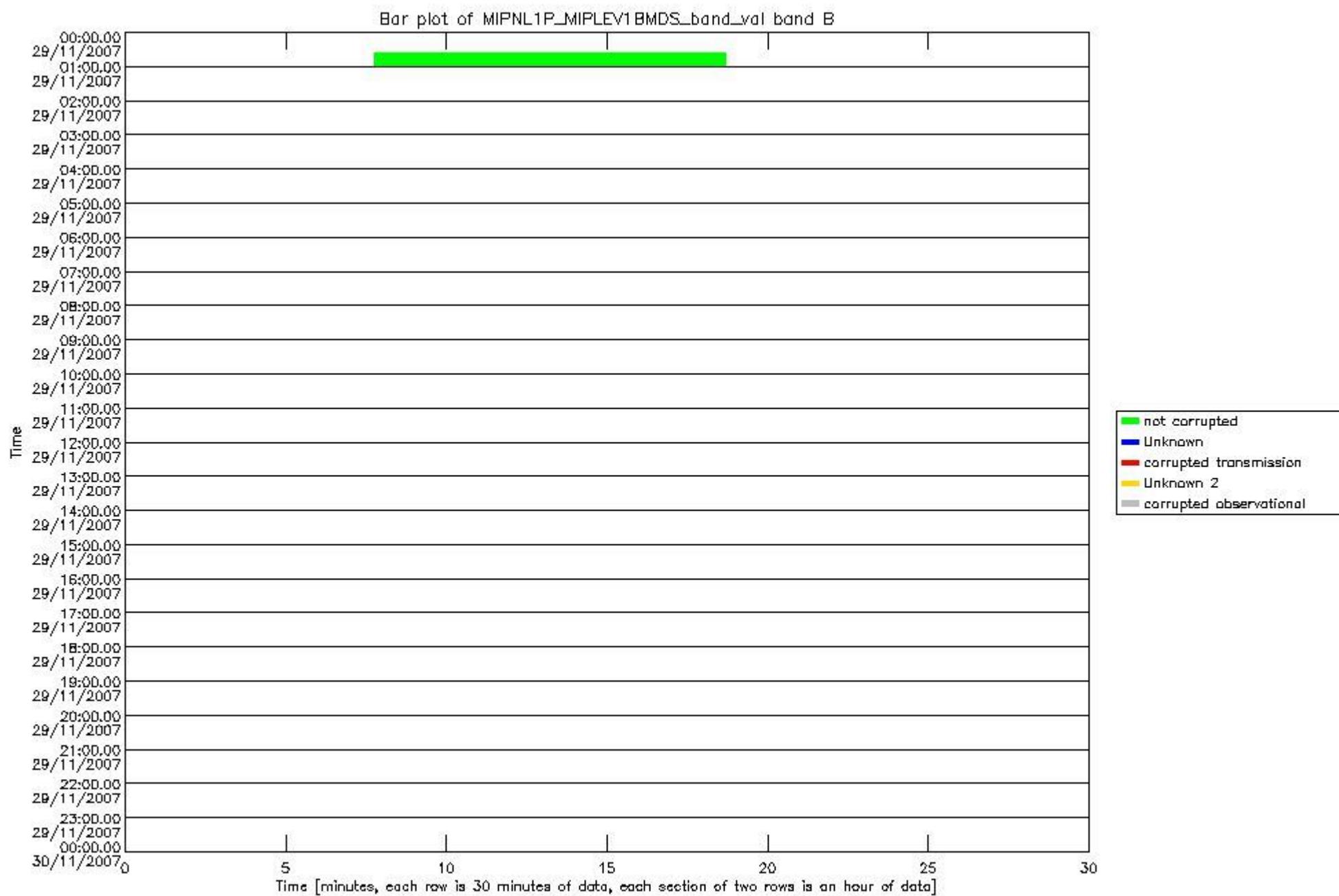


mipas_daily_report_level1_MIPAS_4_67_P_20071129_32.PNG

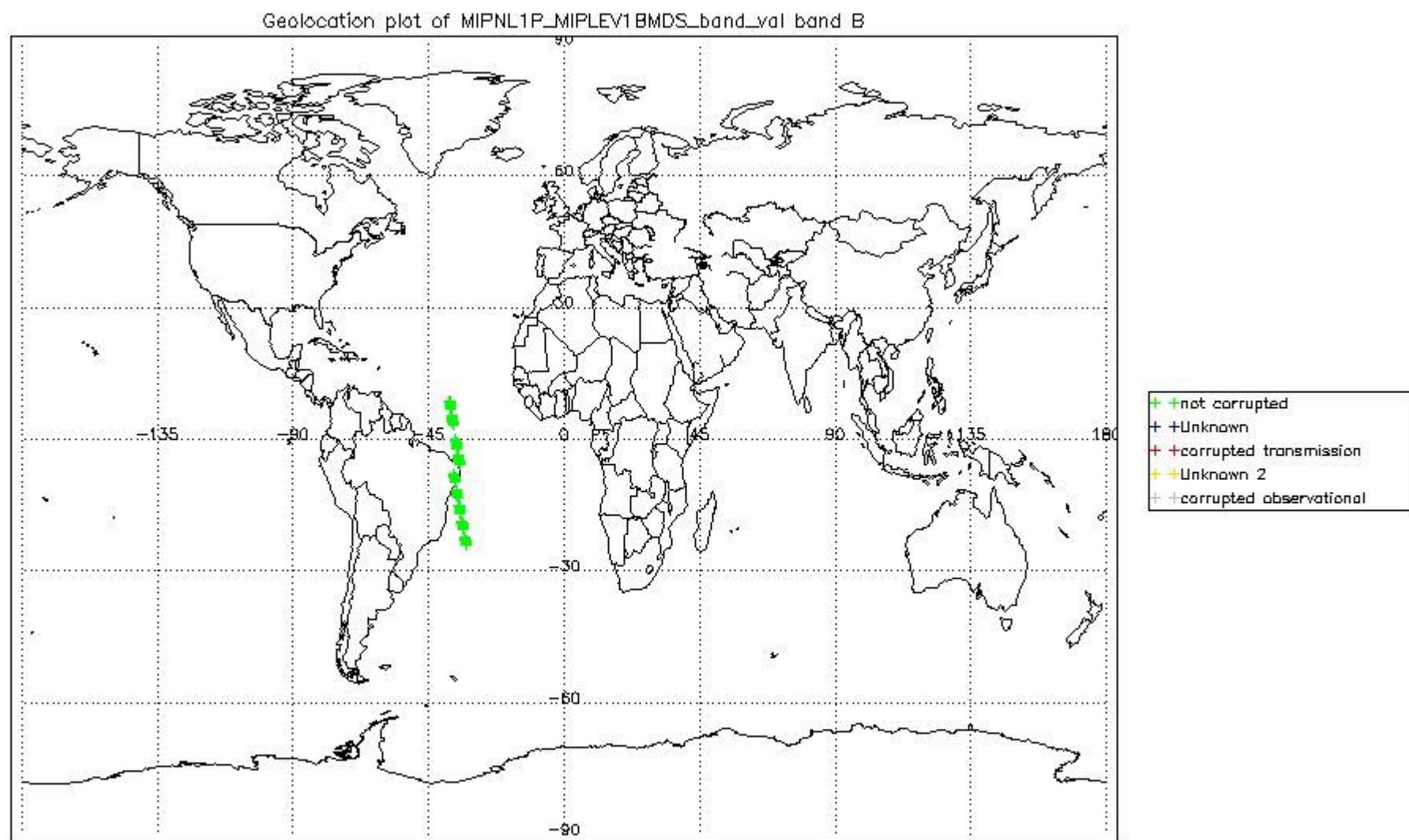
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



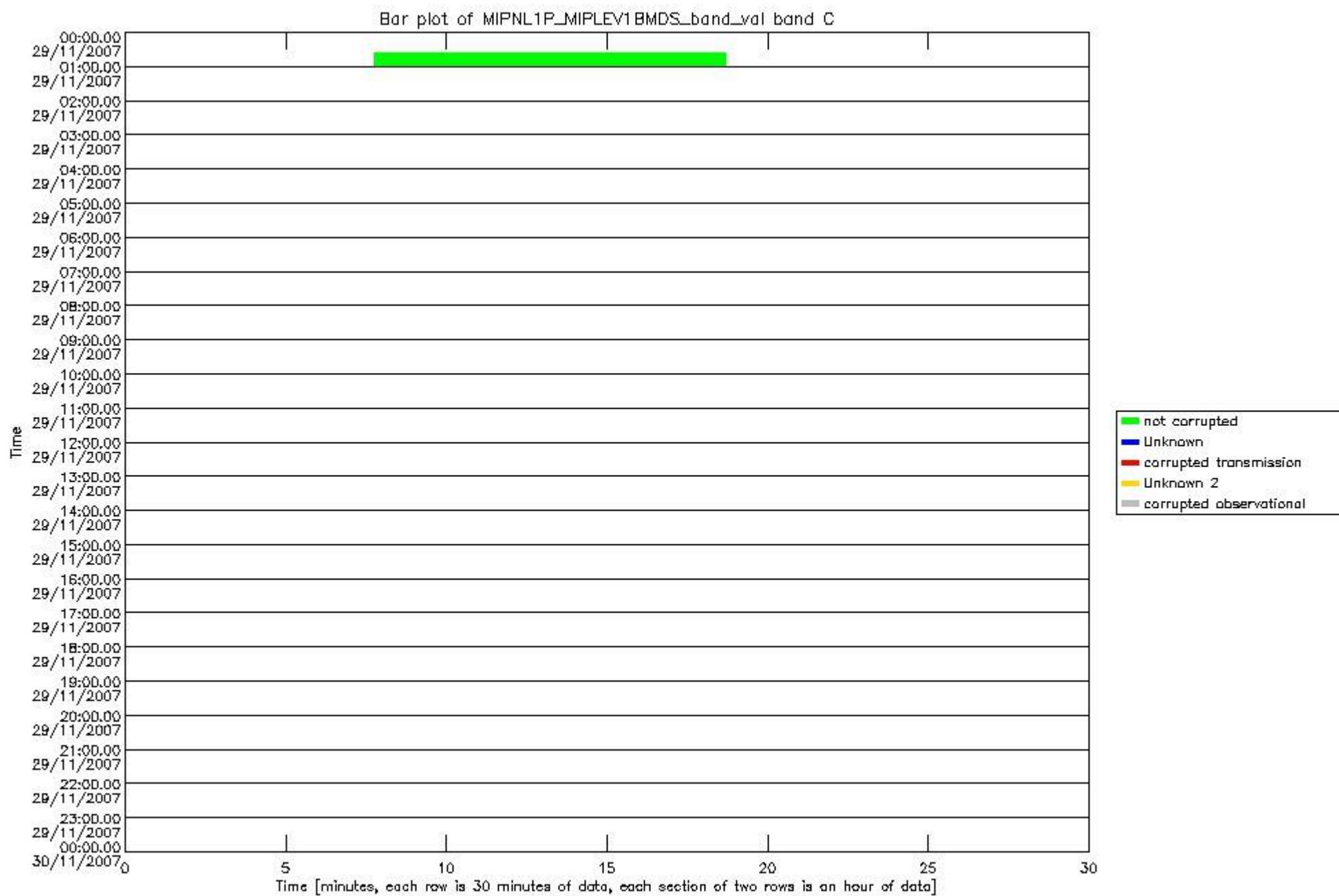
mipas_daily_report_level1_MIPAS_4_67_P_20071129_33.PNG



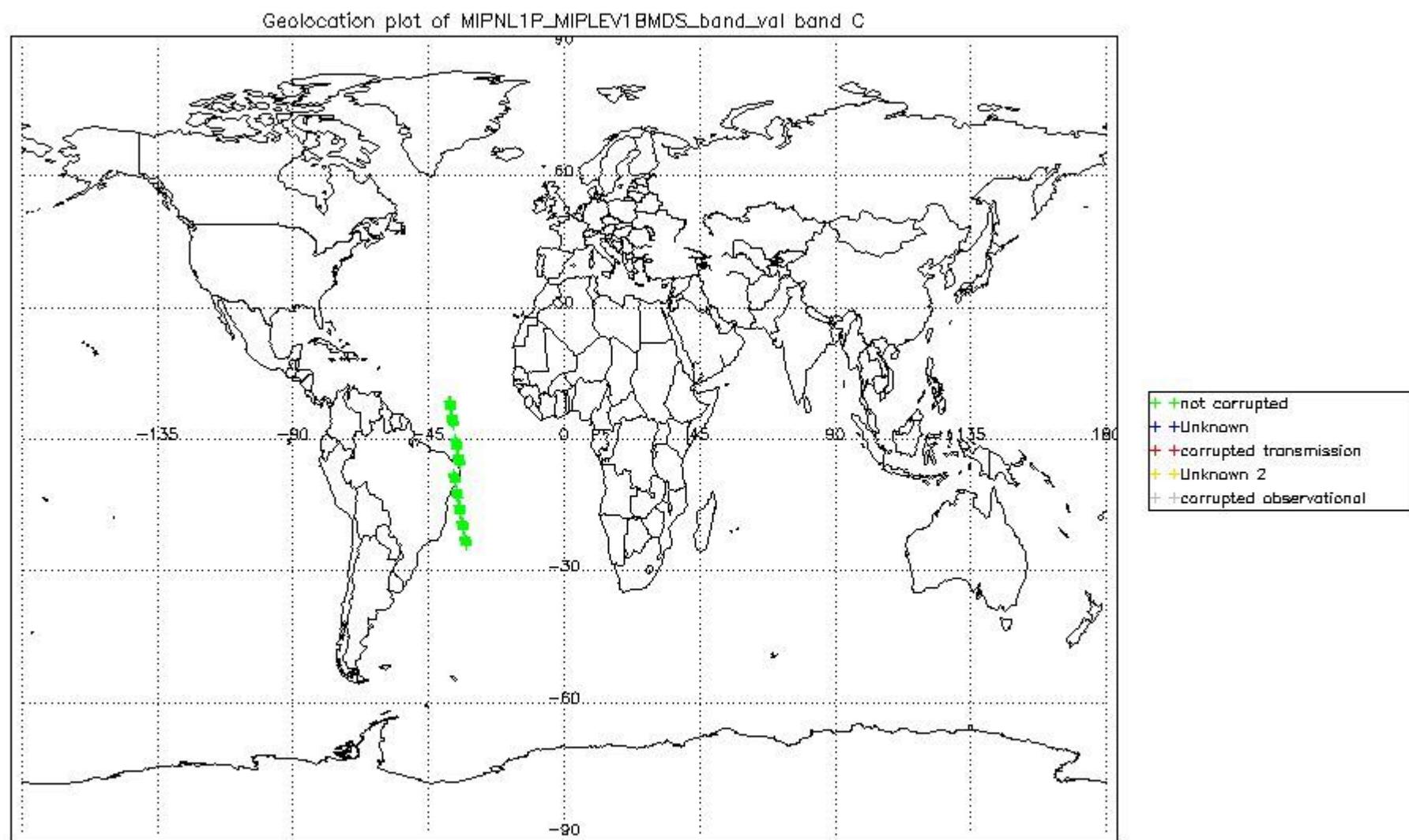
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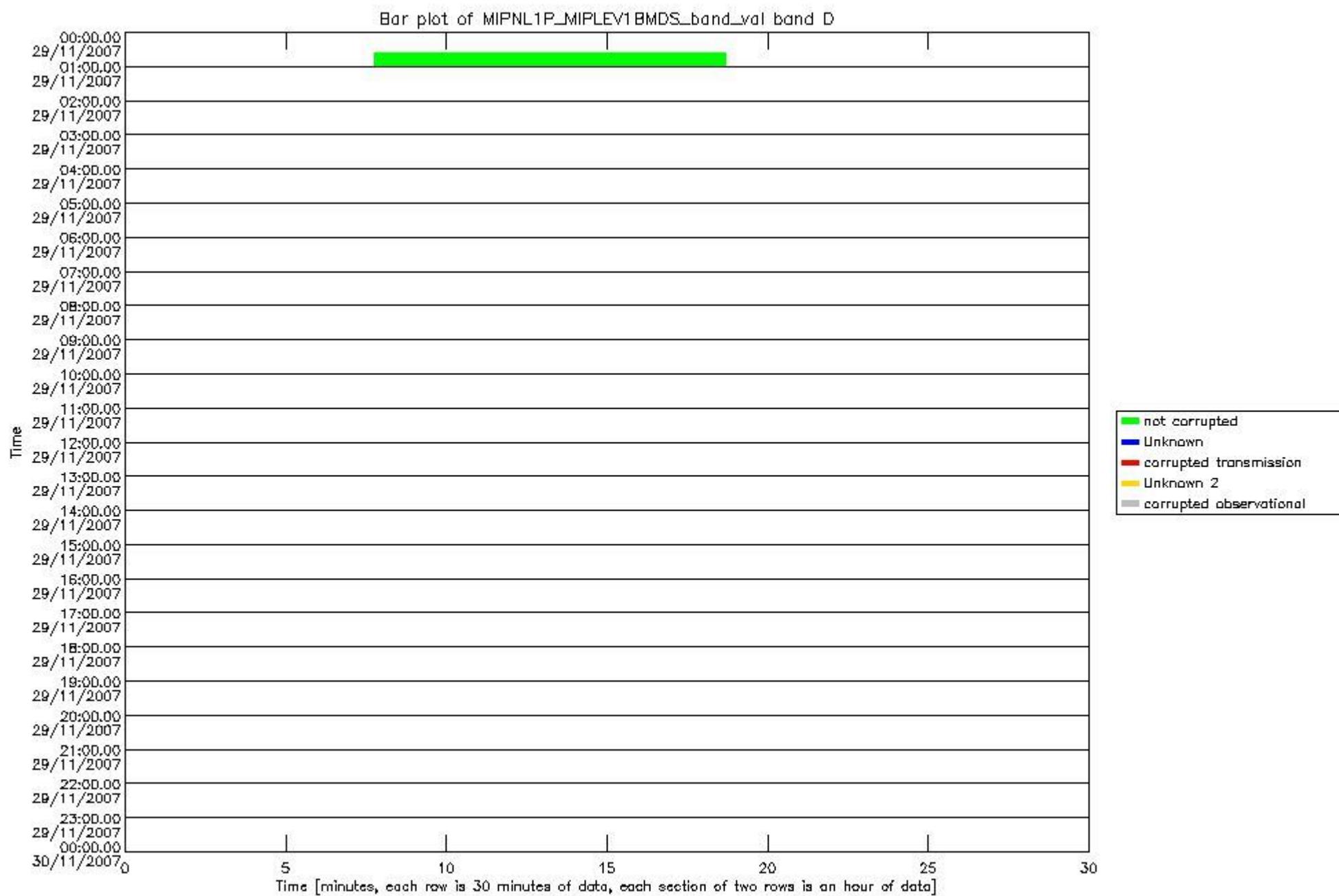
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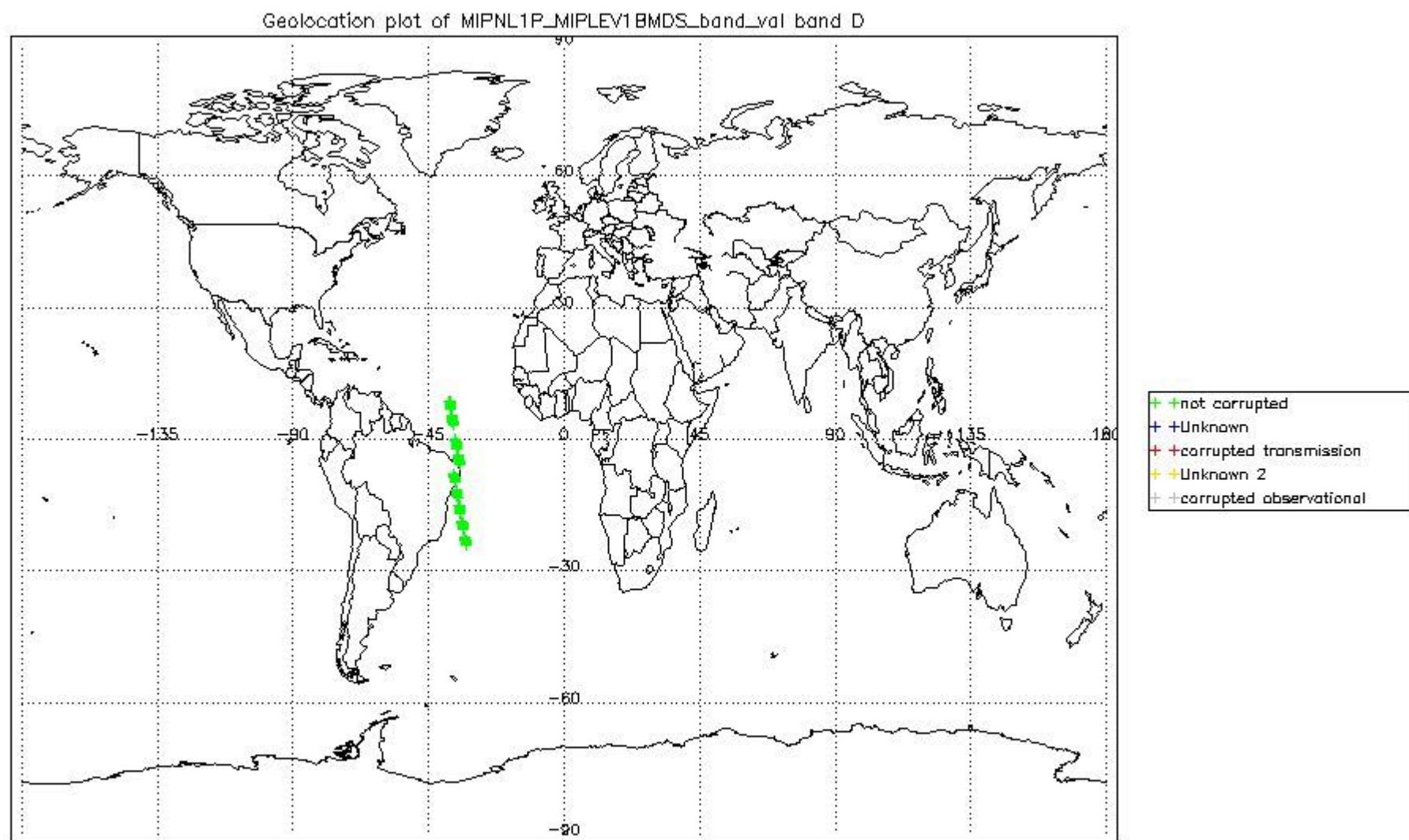
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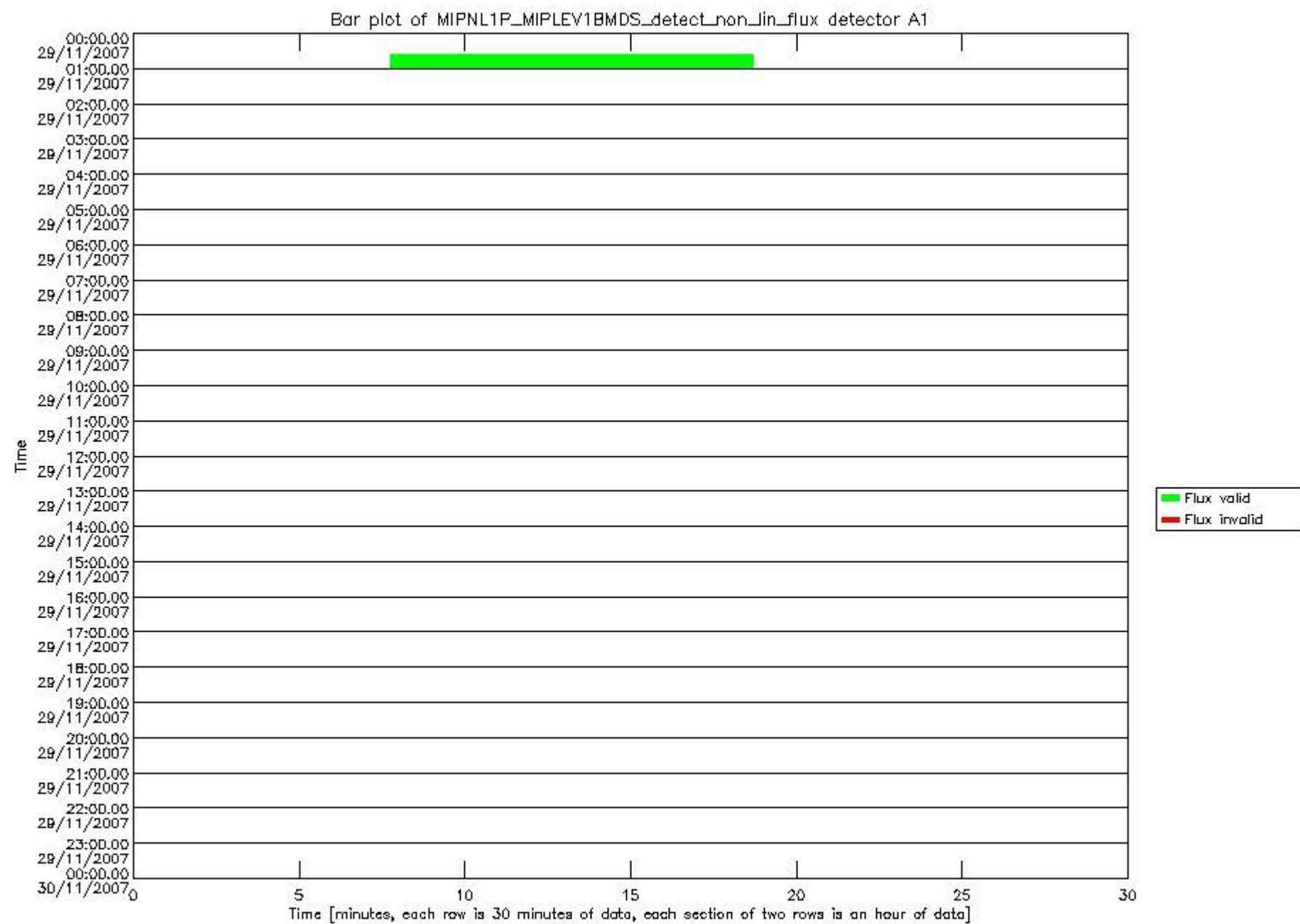
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mipas_daily_report_level1_MIPAS_4_67_P_20071129_38.PNG

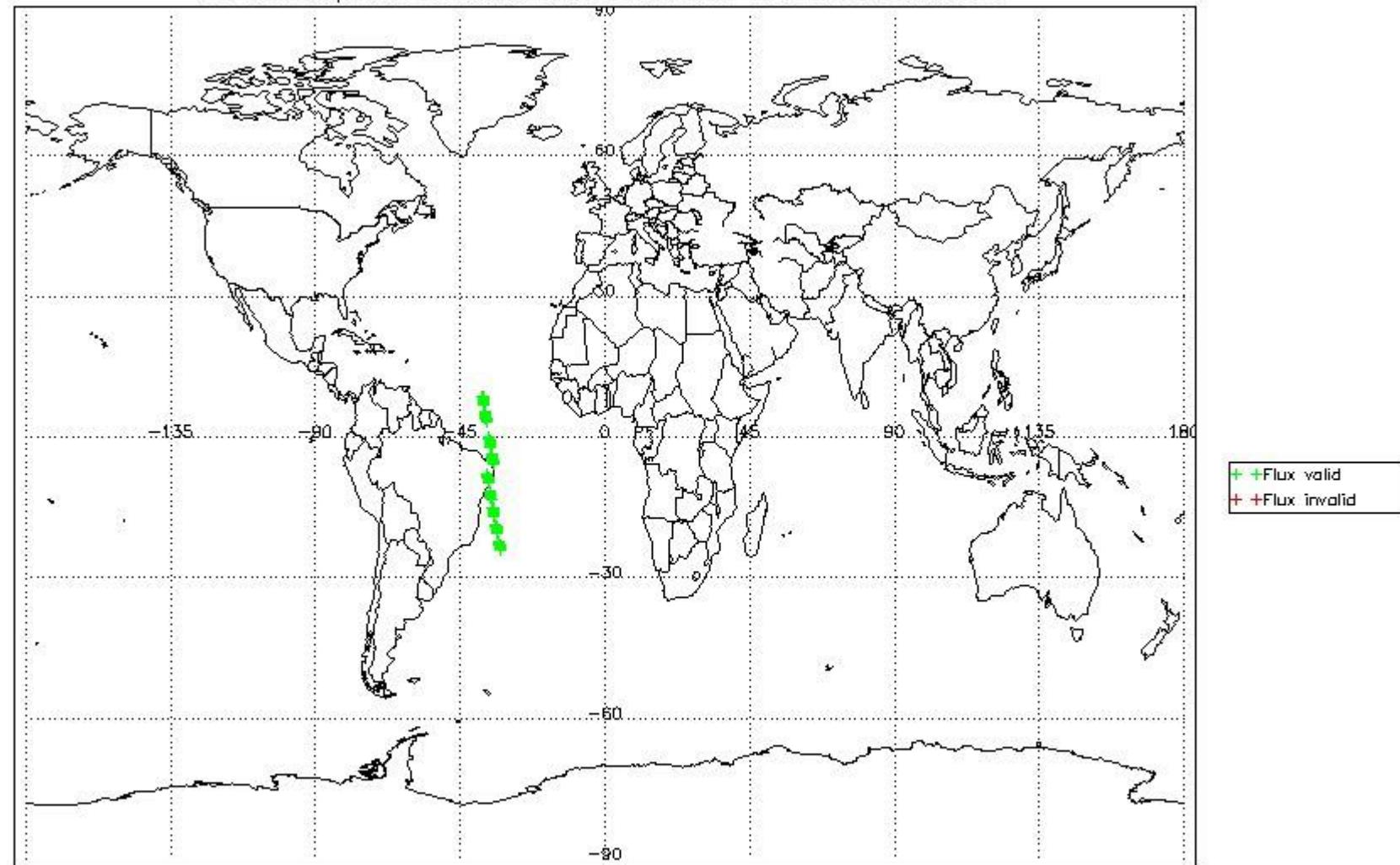


mipas_daily_report_level1_MIPAS_4_67_P_20071129_39.PNG

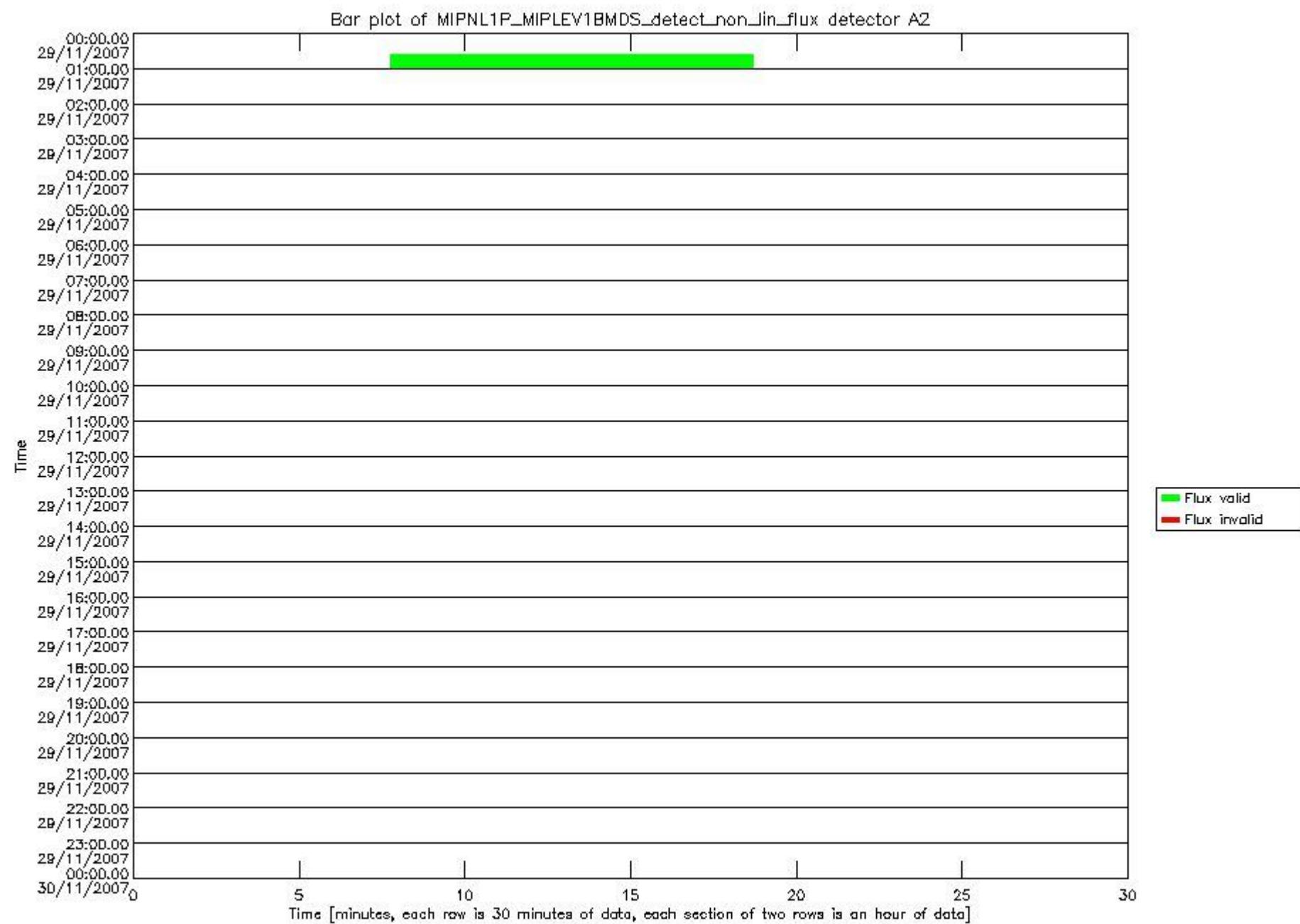


mipas_daily_report_level1_MIPAS_4_67_P_20071129_40.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1

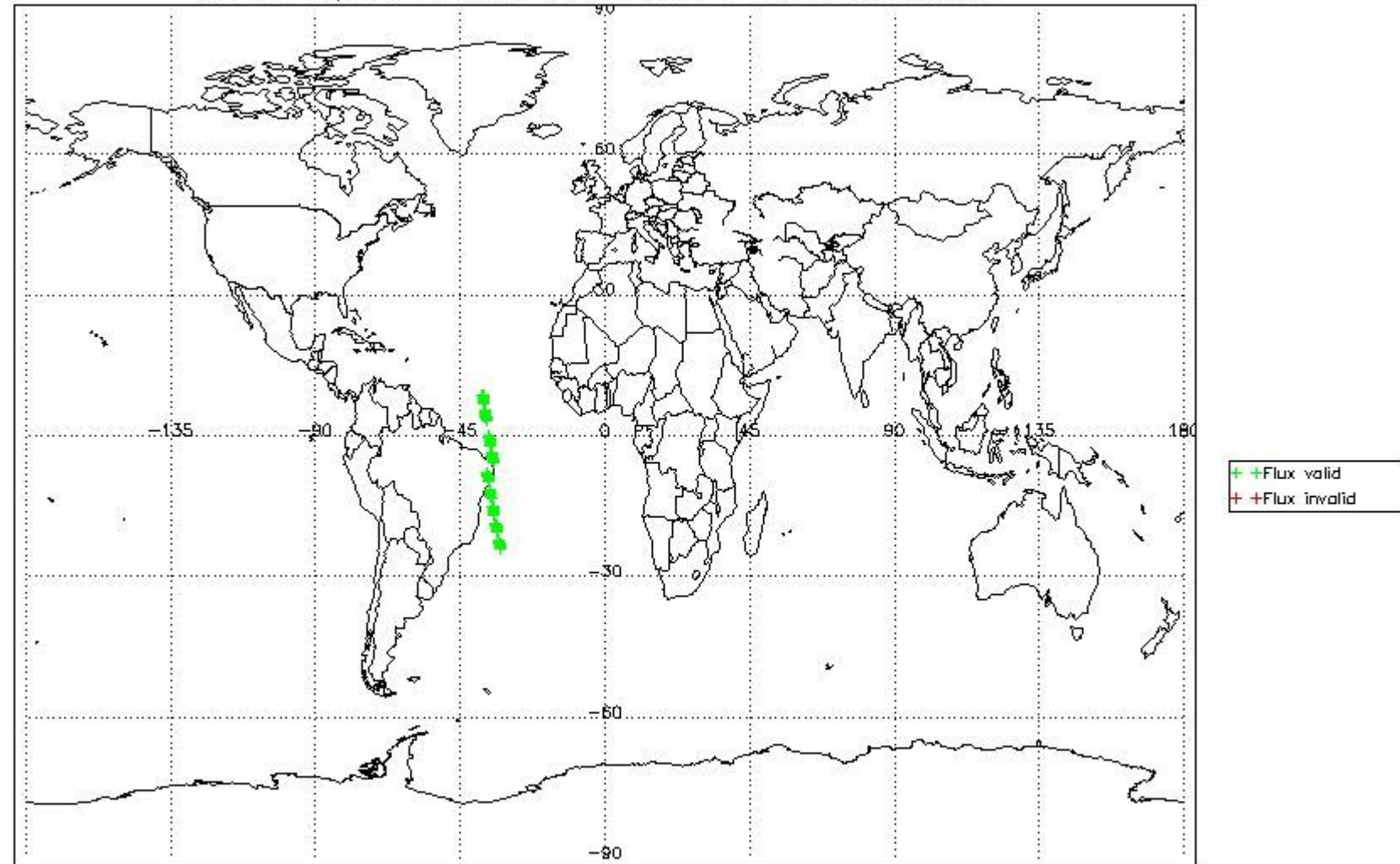


mipas_daily_report_level1_MIPAS_4_67_P_20071129_41.PNG

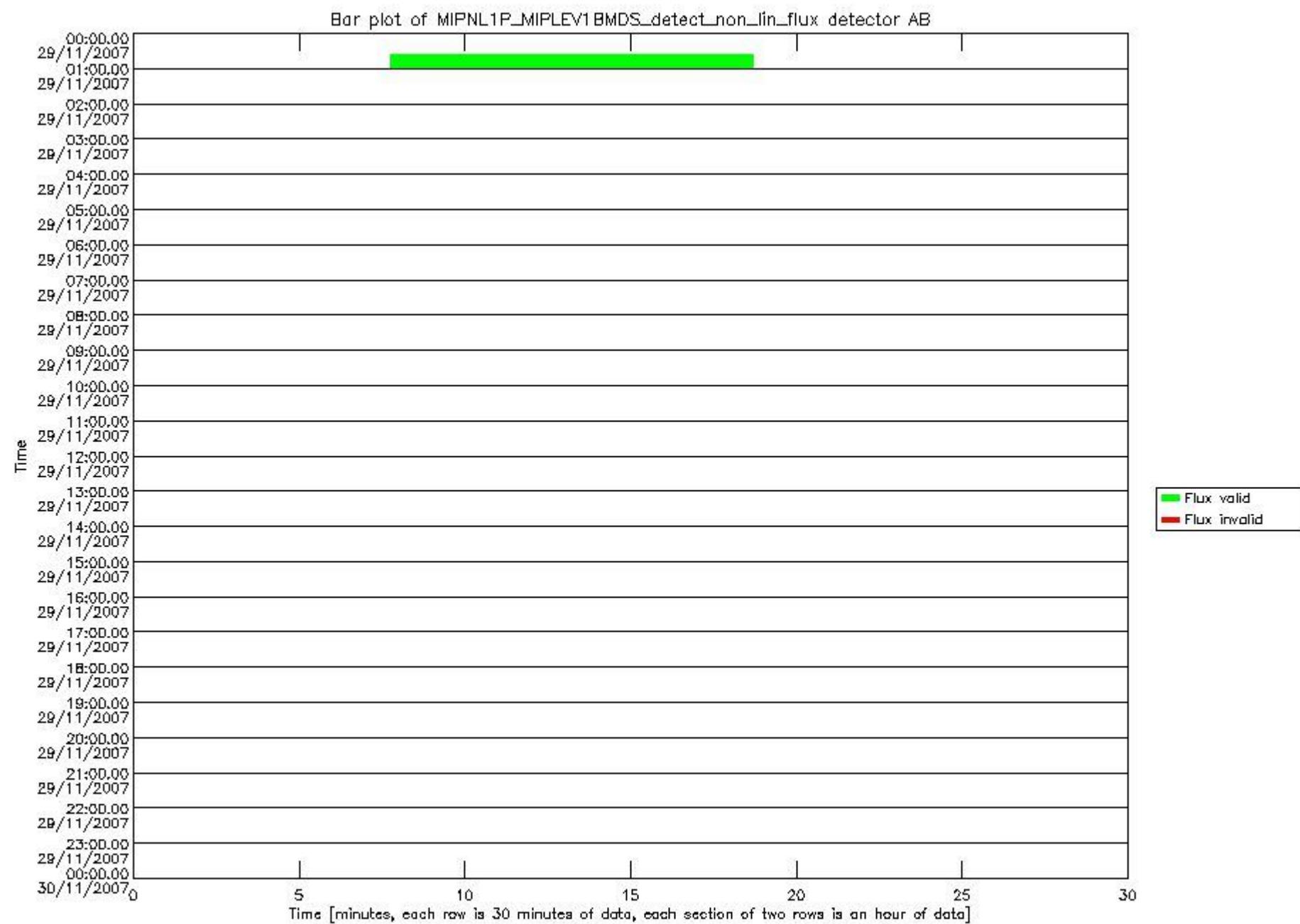


mipas_daily_report_level1_MIPAS_4_67_P_20071129_42.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2

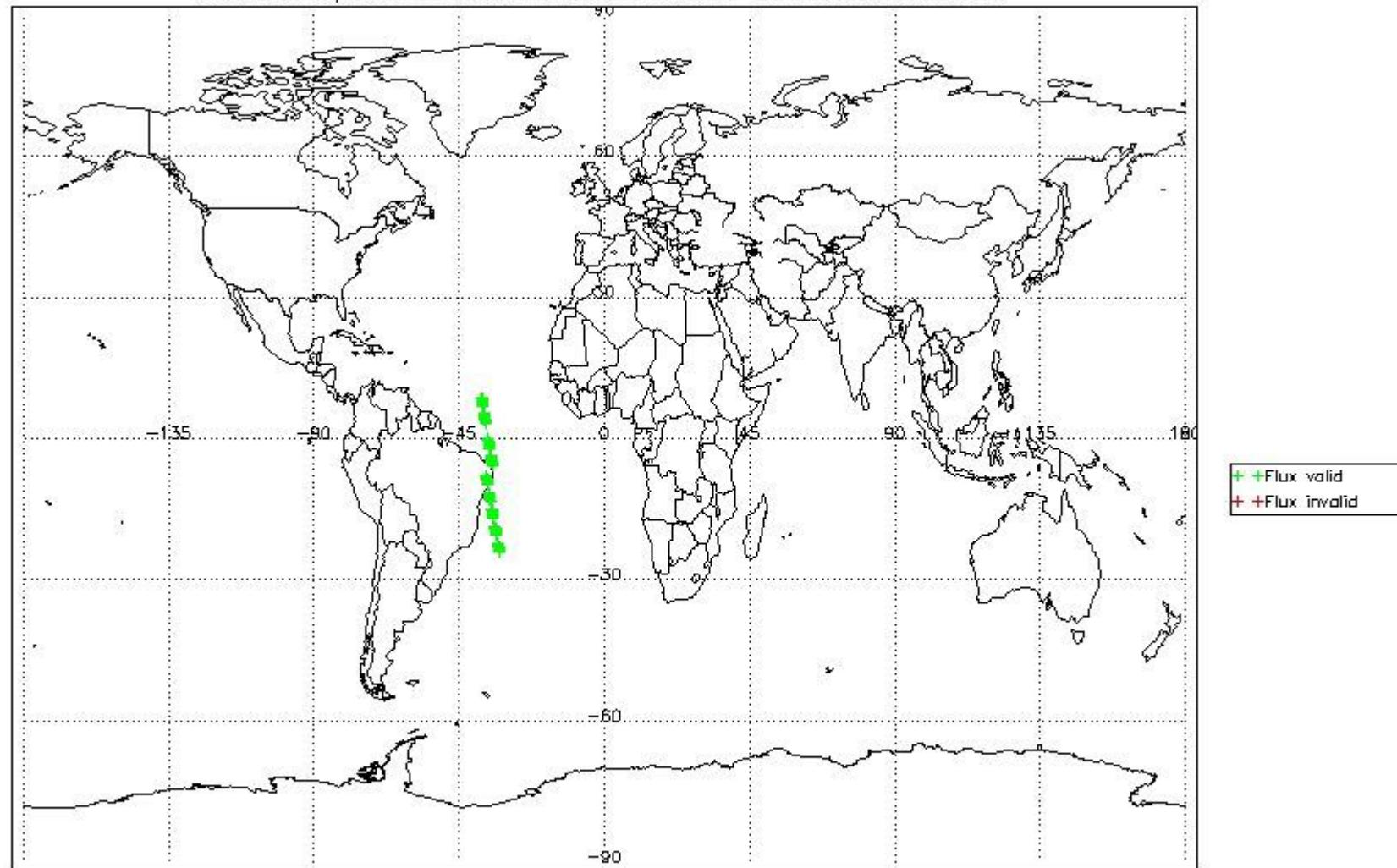


mipas_daily_report_level1_MIPAS_4_67_P_20071129_43.PNG

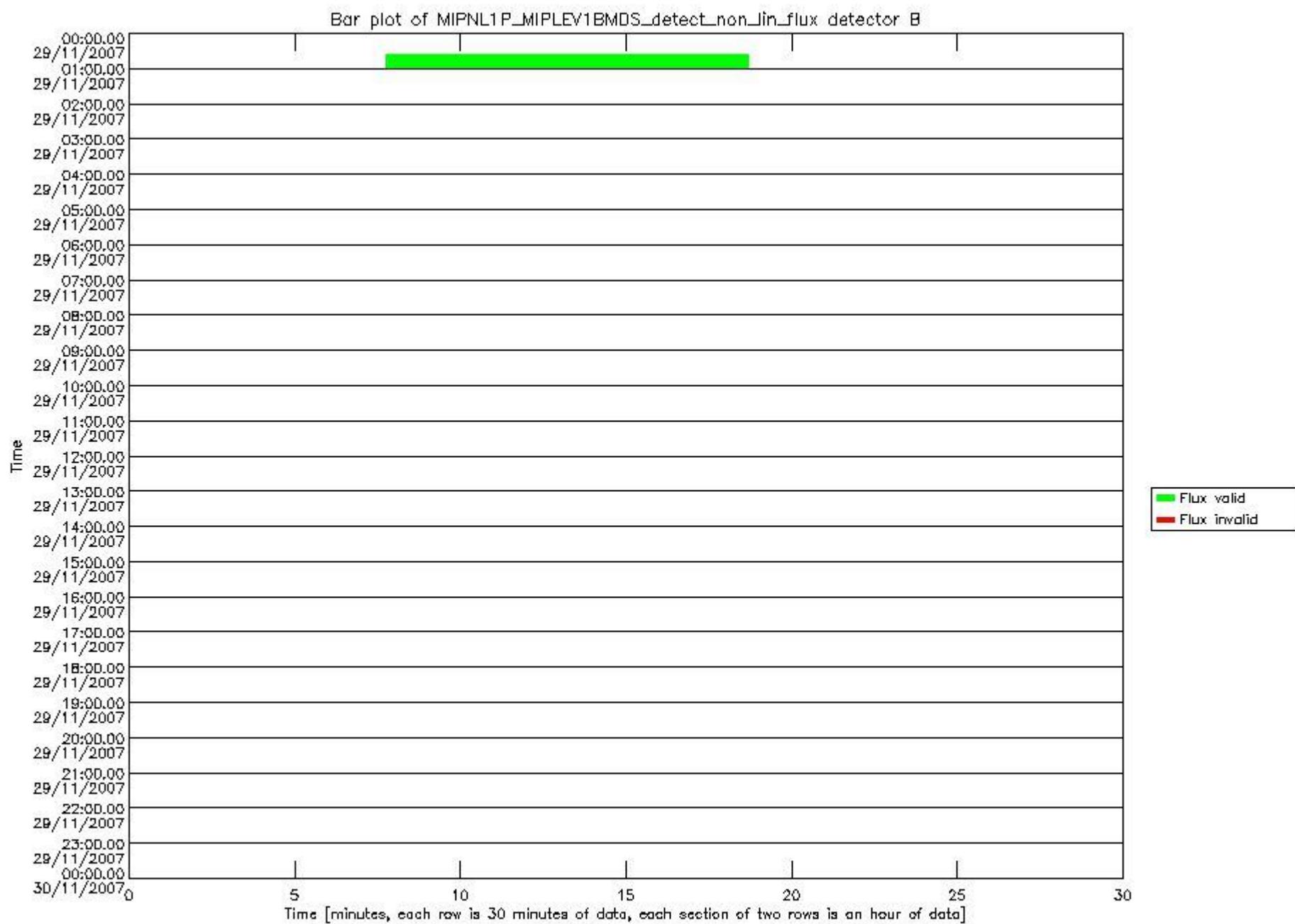


mipas_daily_report_level1_MIPAS_4_67_P_20071129_44.PNG

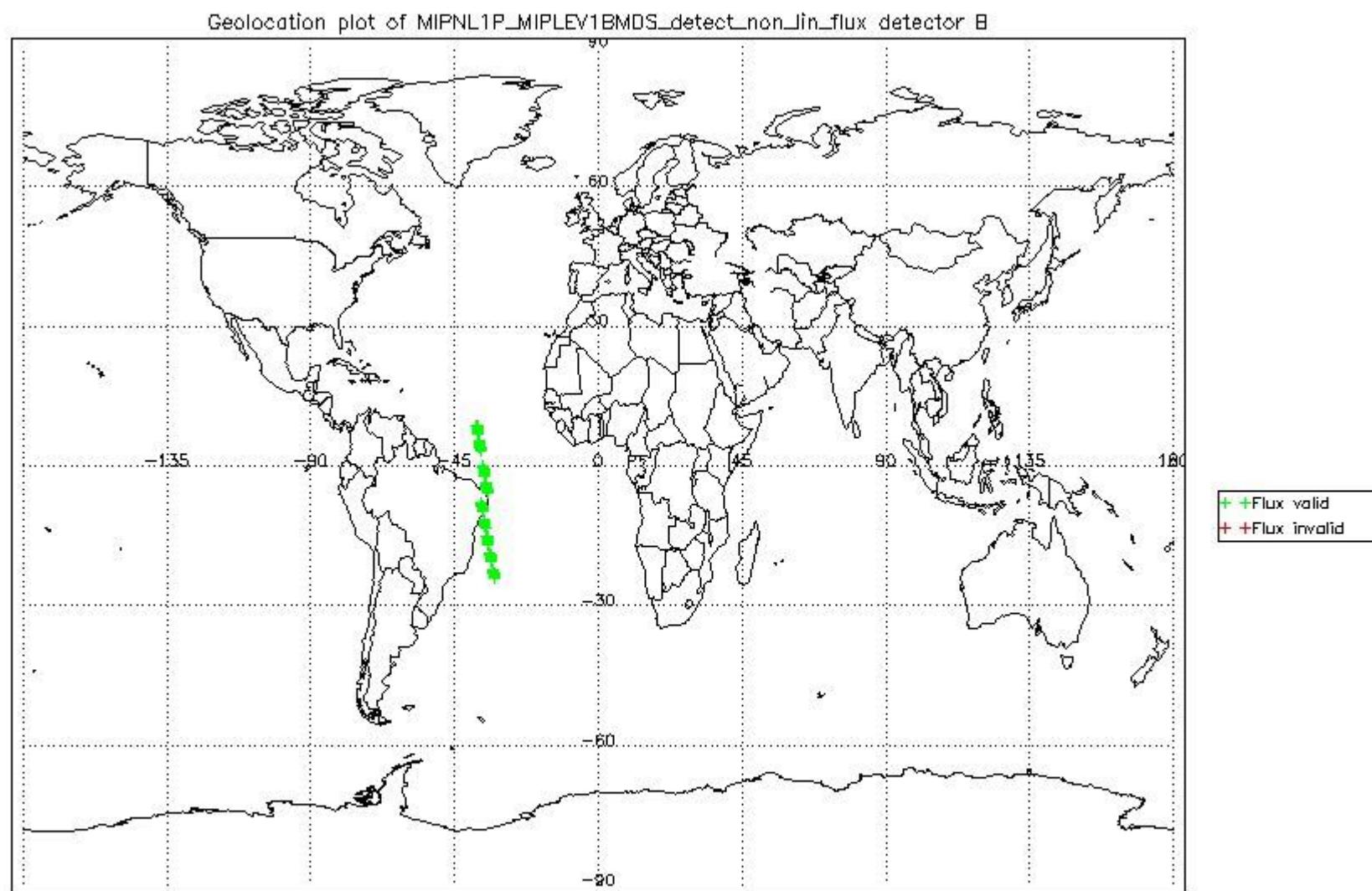
Geolocation plot of MIPNL1P_MIPLEV1_BMDS_detect_non_lin_flux detector AB



mipas_daily_report_level1_MIPAS_4_67_P_20071129_45.PNG



mipas_daily_report_level1_MIPAS_4_67_P_20071129_46.PNG



mipas_daily_report_level1_MIPAS_4_67_P_20071129_47.PNG

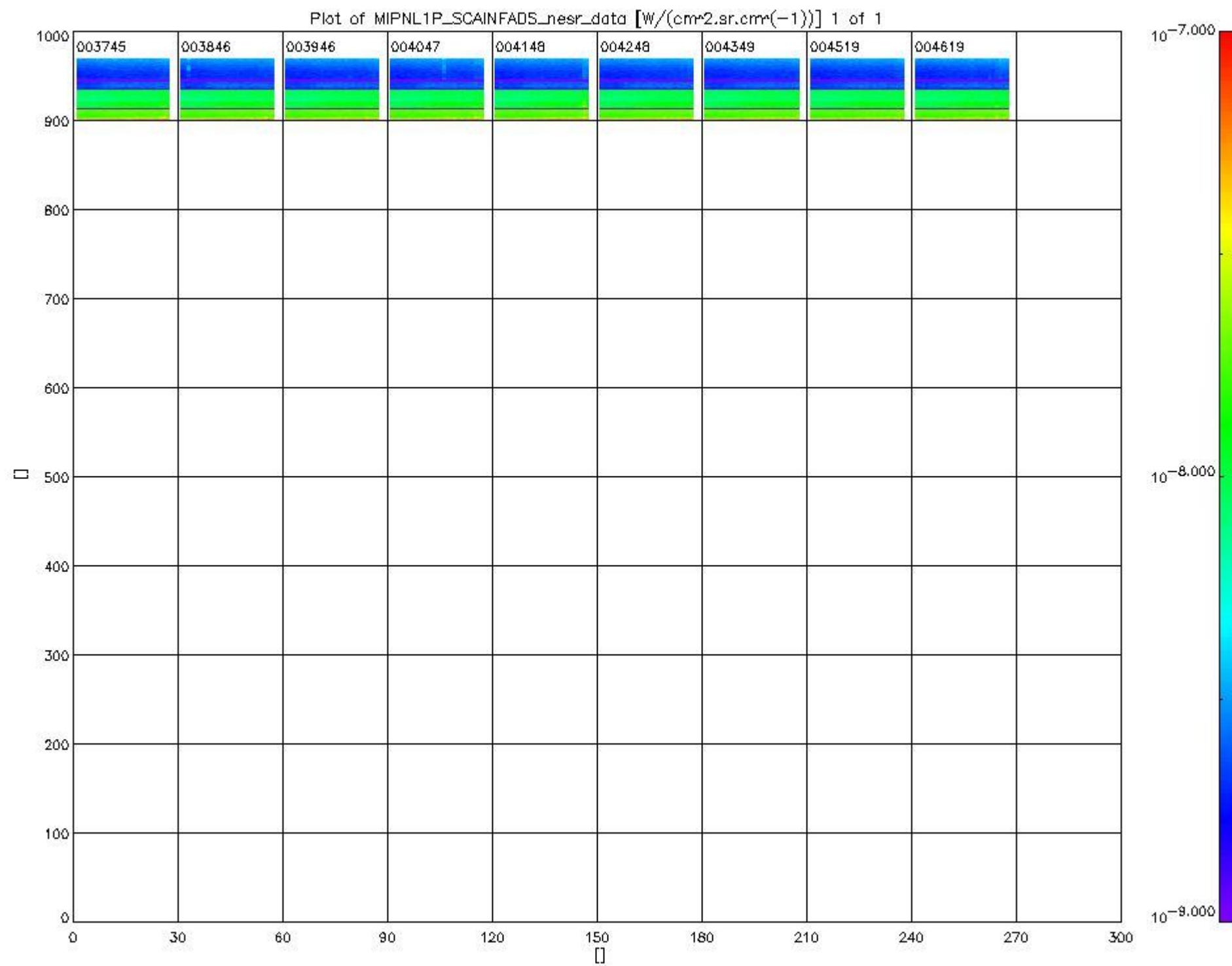
1.2.3 Scan information ADS

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.

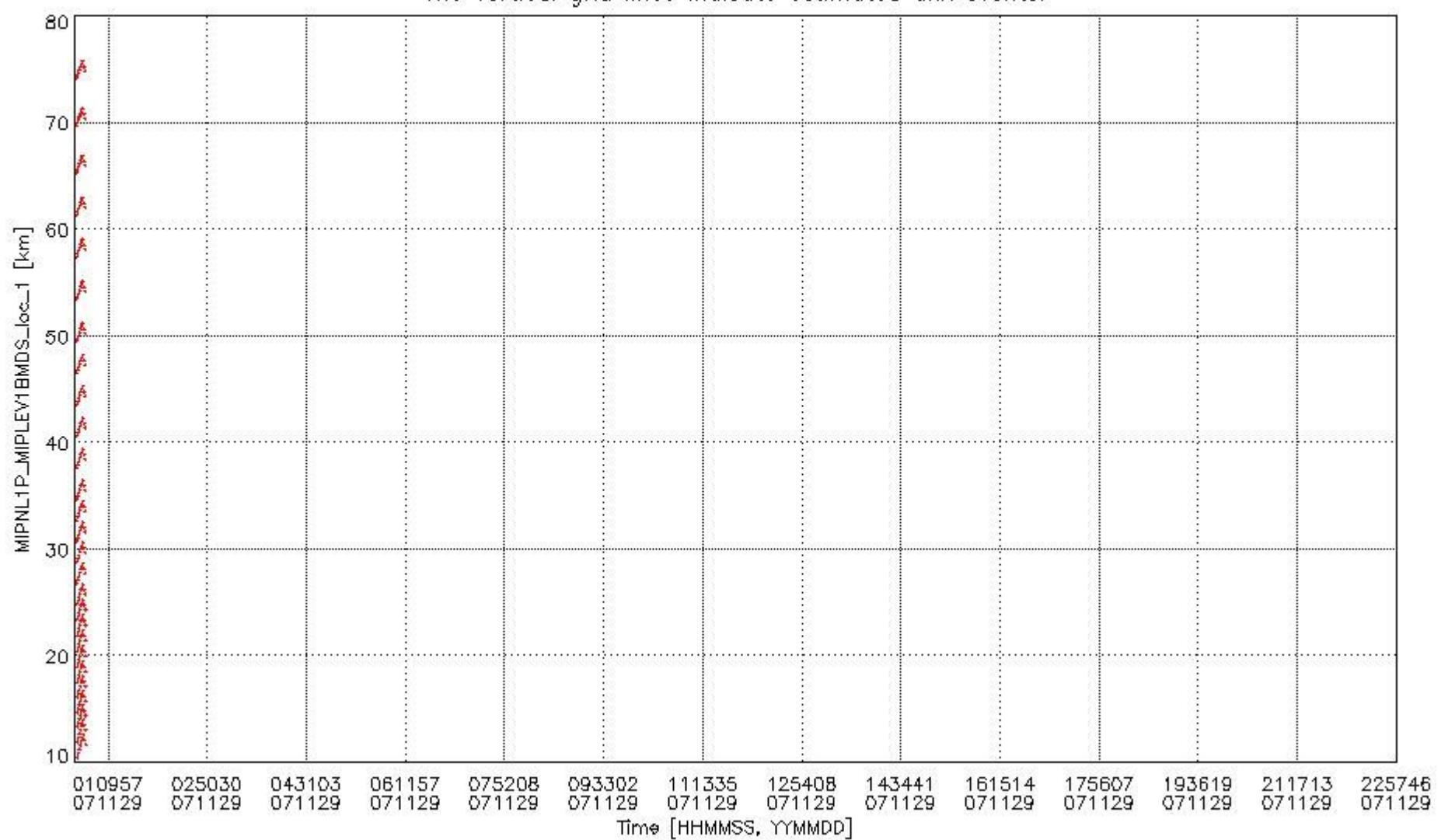


mipas_daily_report_level1_MIPAS_4_67_P_20071129_48.PNG

1.3 Physical Quality Indicators

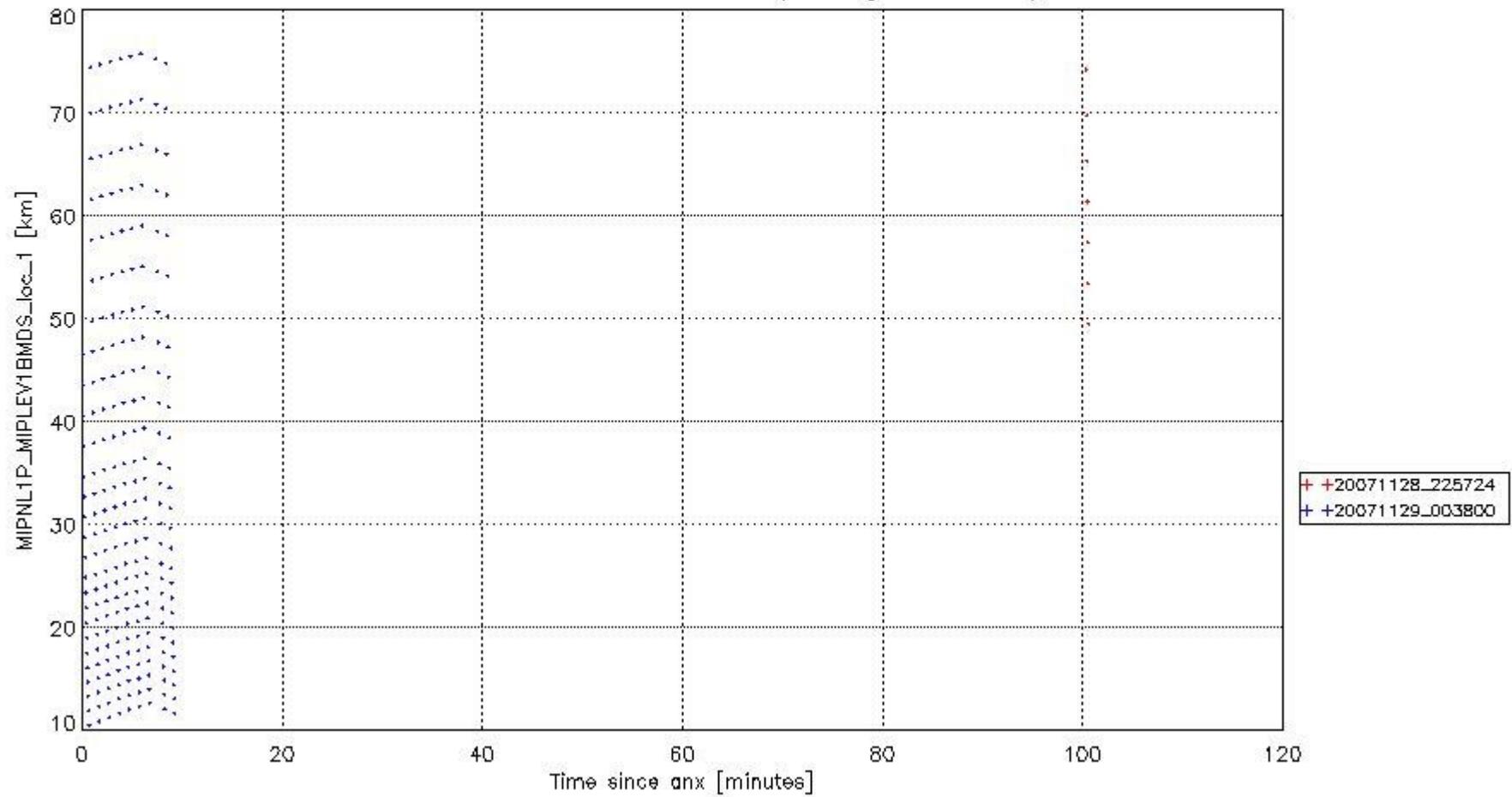
1.3.1 Tangent altitude

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



mipas_daily_report_level1_MIPAS_4_67_P_20071129_49.PNG

Plot of MIPNL1P_MIPLEV1BMDS_loc_1 against relative time within orbit.
The colours indicate distinct orbits (see legend for anx).



mipas_daily_report_level1_MIPAS_4_67_P_20071129_50.PNG

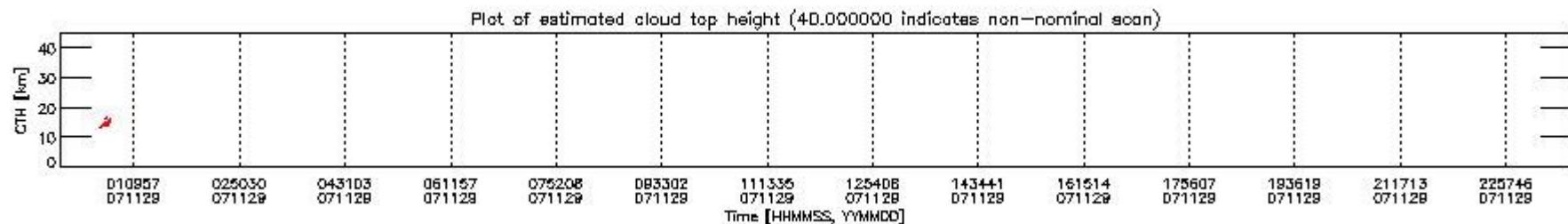
1.3.2 Cloud top height

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)

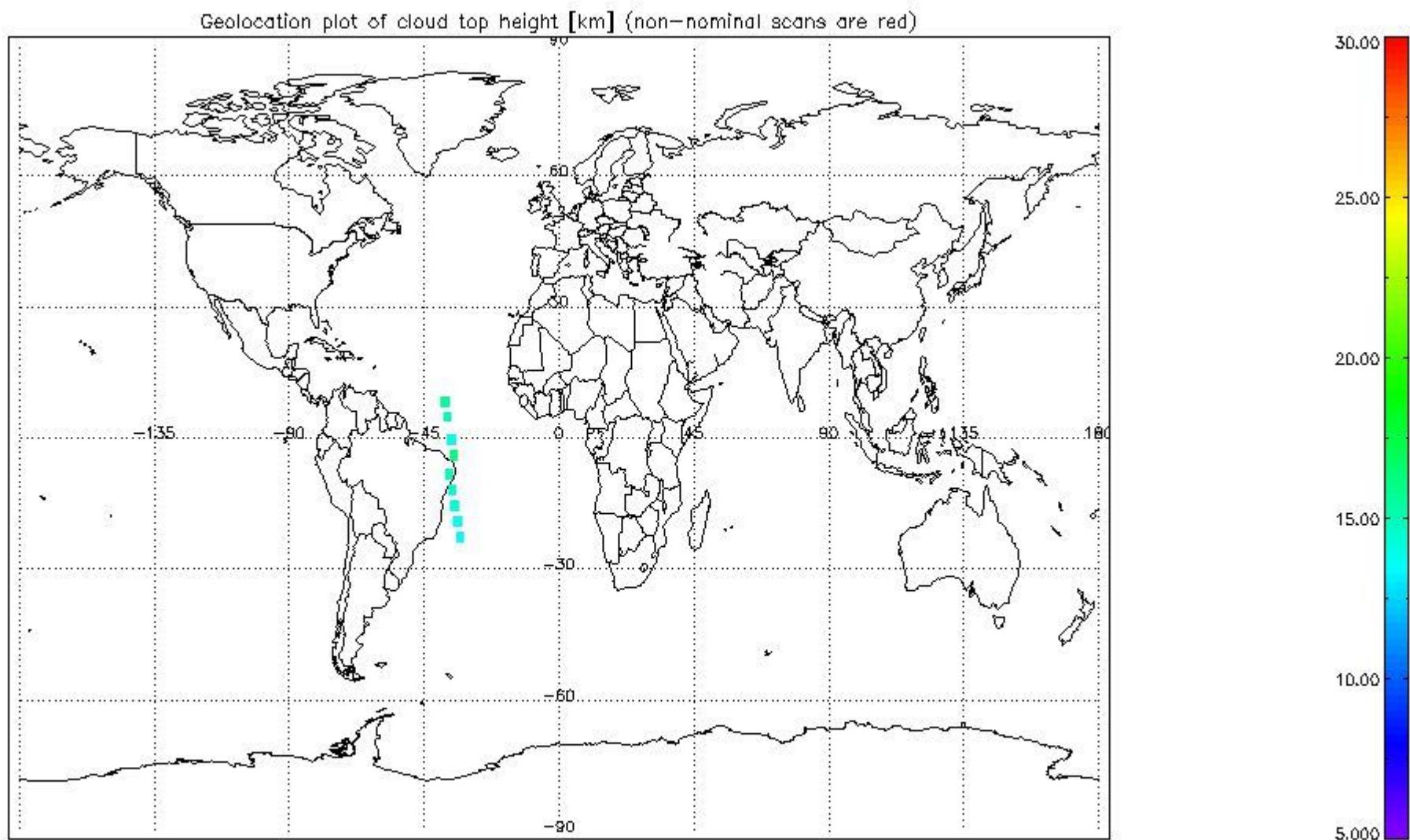
The non-nominal scans mentioned in the plots are scans that are rejected by the cloud top height algorithm for several reasons:

- 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 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



mipas_daily_report_level1_MIPAS_4_67_P_20071129_51.PNG

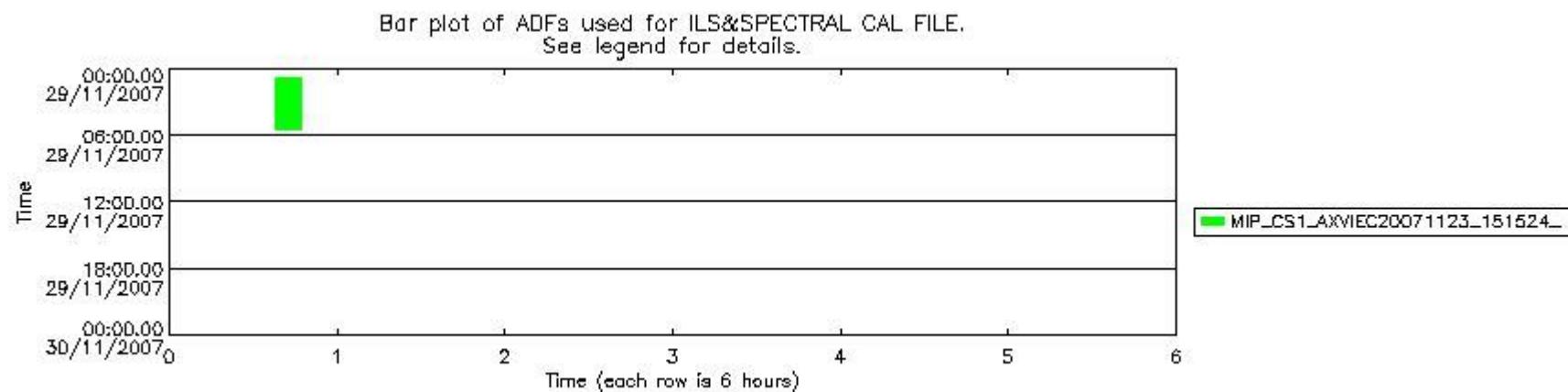


mipas_daily_report_level1_MIPAS_4_67_P_20071129_52.PNG

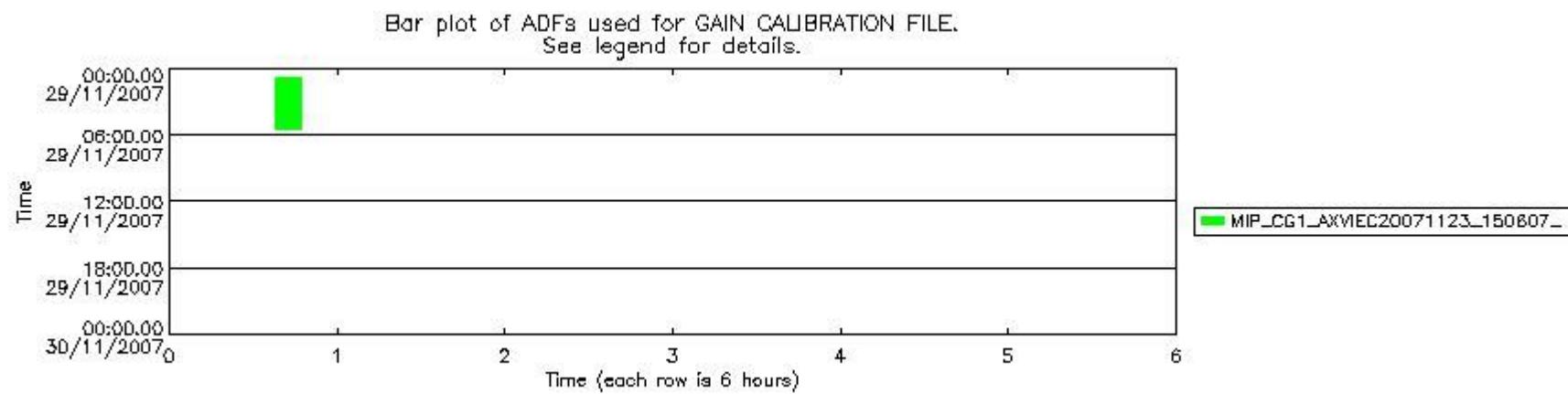
1.4 ADF monitoring

Number	ADF
0	AUX_FRO_AXVPDS20071201_010110_20071127_221000_20071130_005000
1	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
2	MIP(CG1_AXVIEC20071123_150607_20071121_000000_20121121_000000
3	MIP(CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
4	MIP(CO1_AXVIEC20071123_15102_20071121_000000_20121121_000000
5	MIP(CS1_AXVIEC20071123_151524_20071121_000000_20121121_000000
6	MIP(MW1_AXVIEC20050627_094928_20040809_000000_20090809_000000

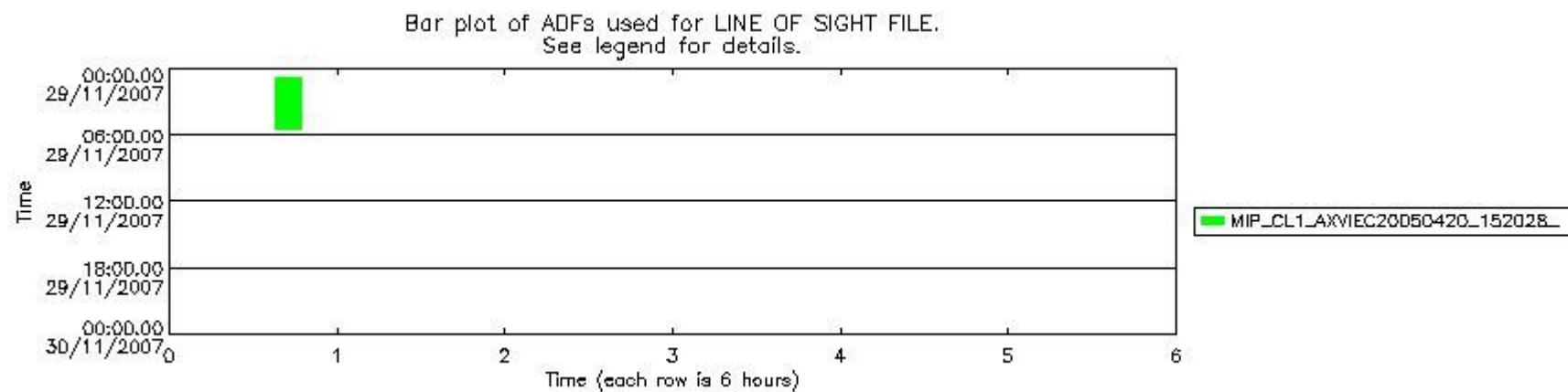
Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
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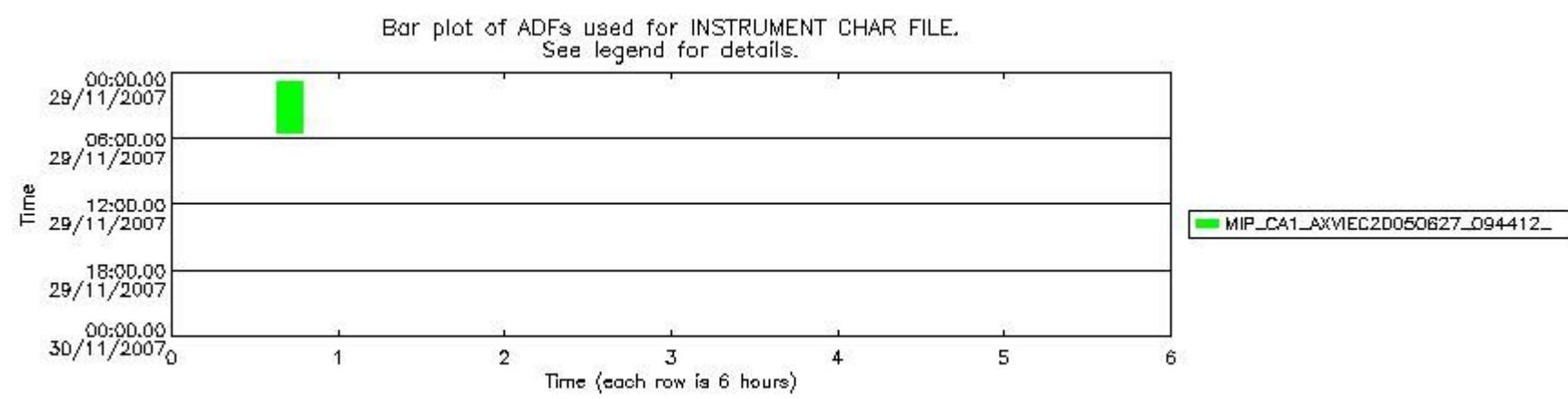
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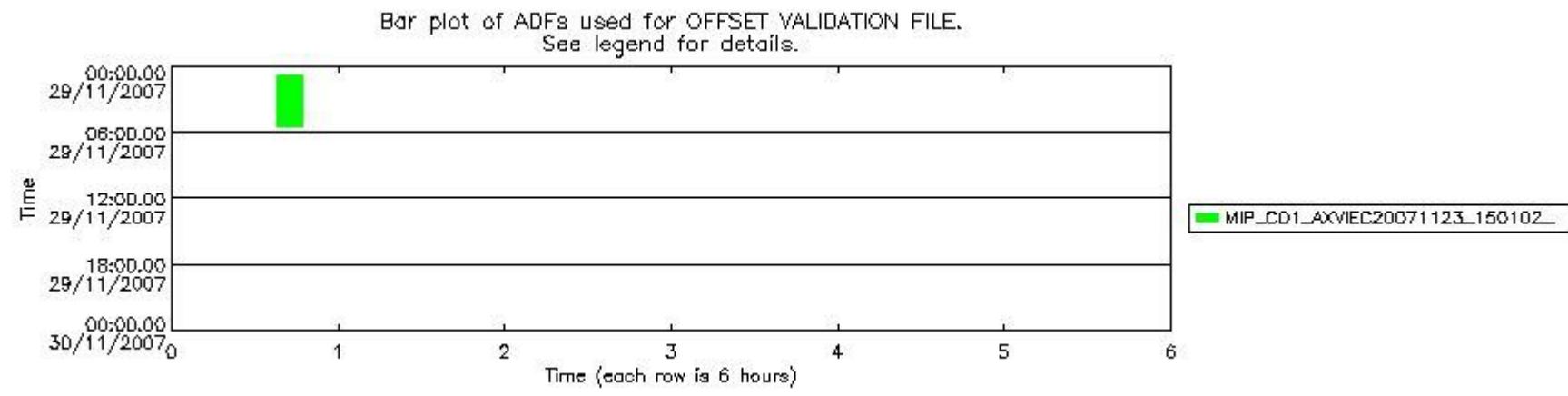
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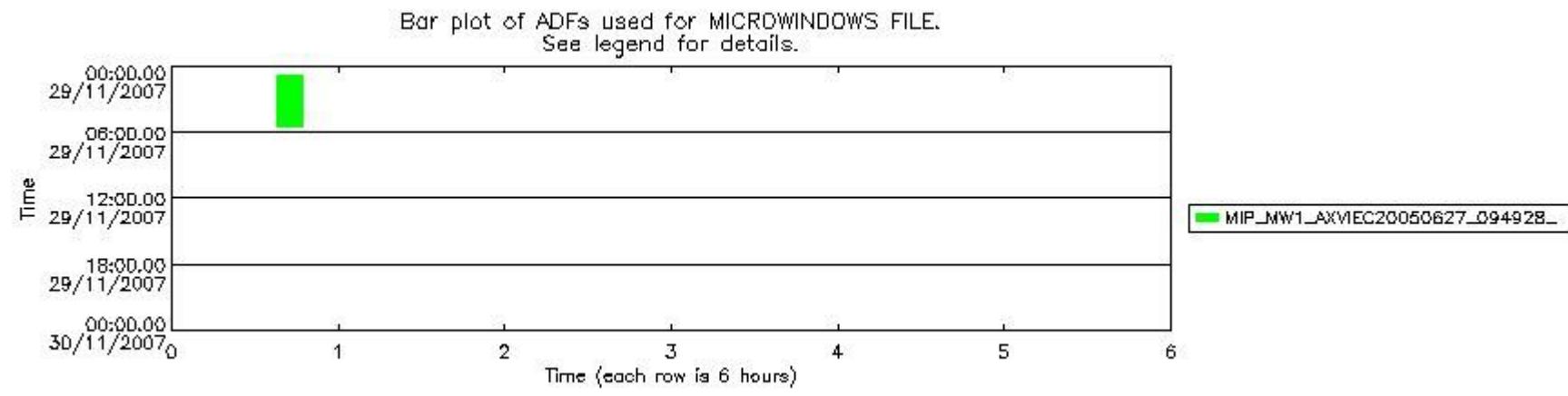
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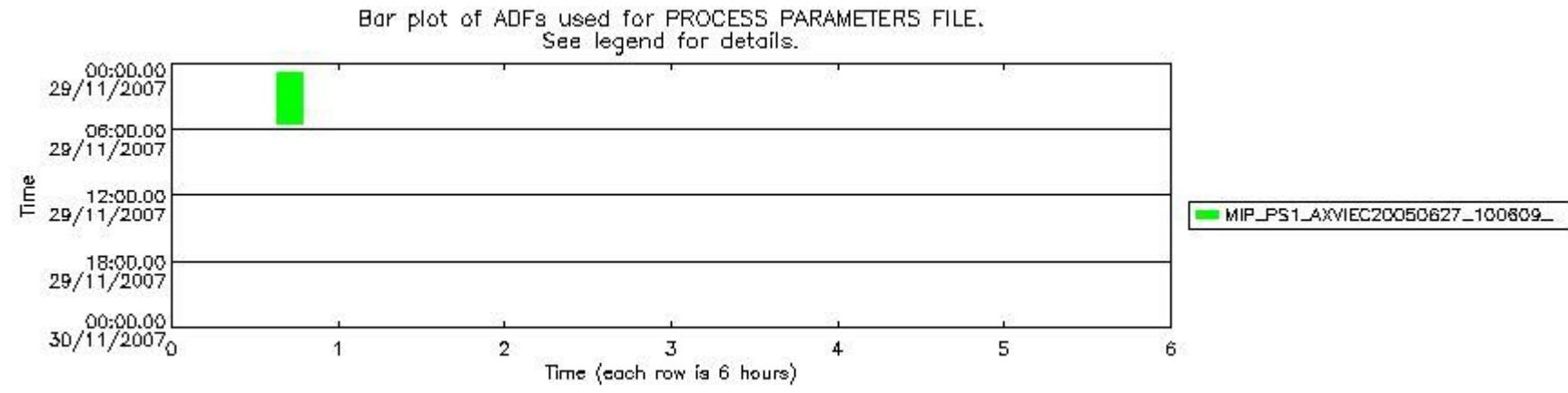
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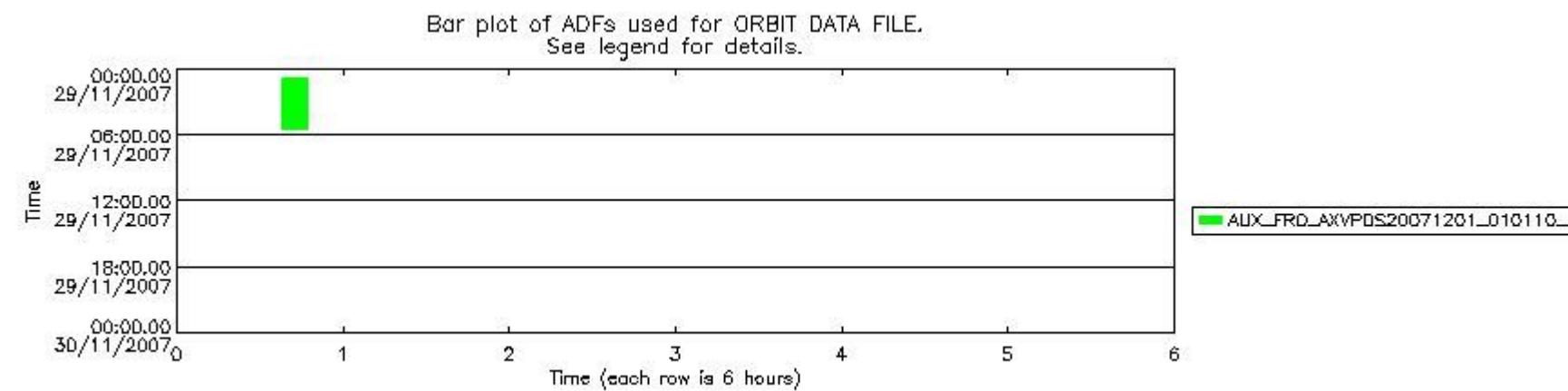
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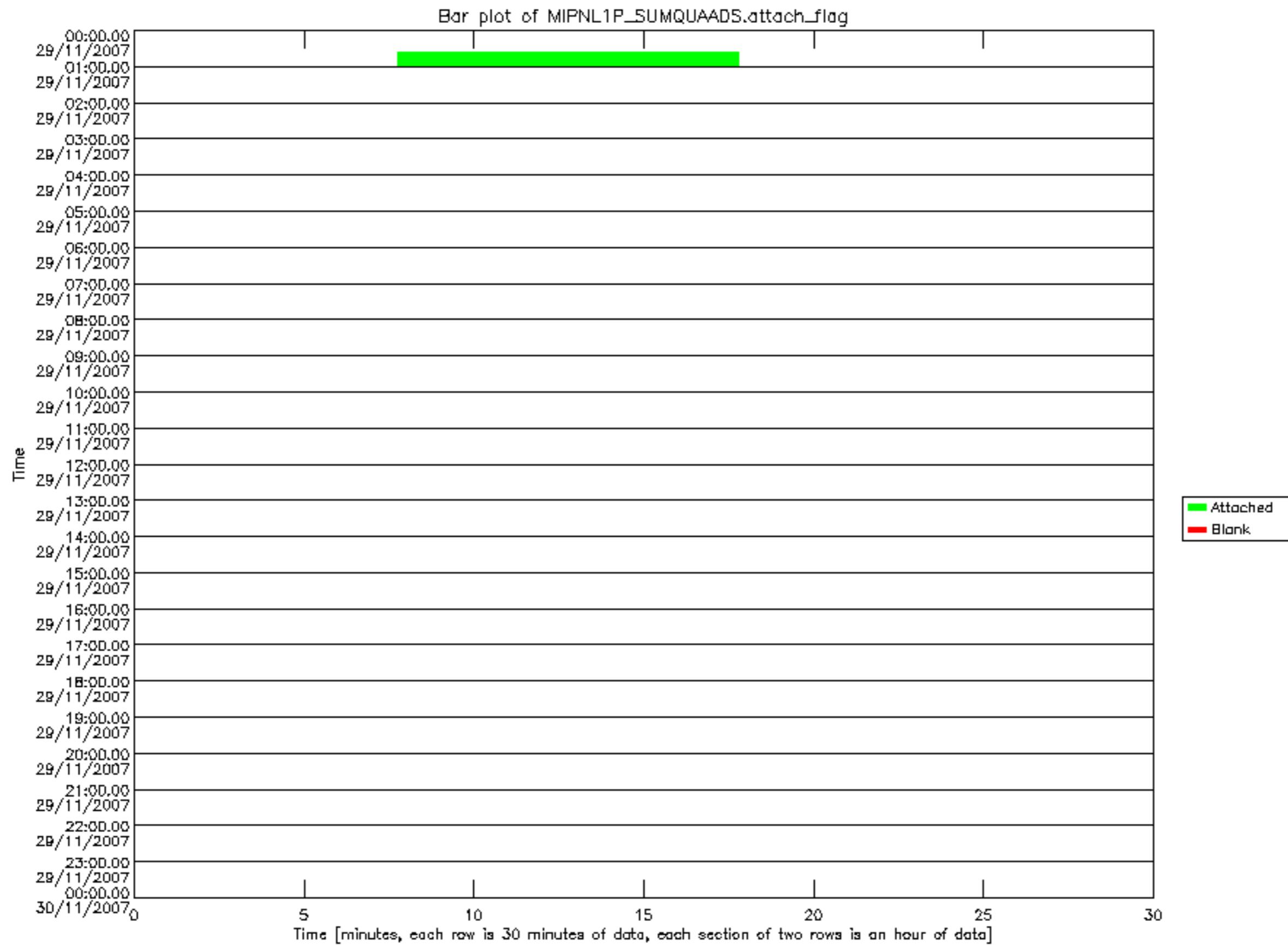
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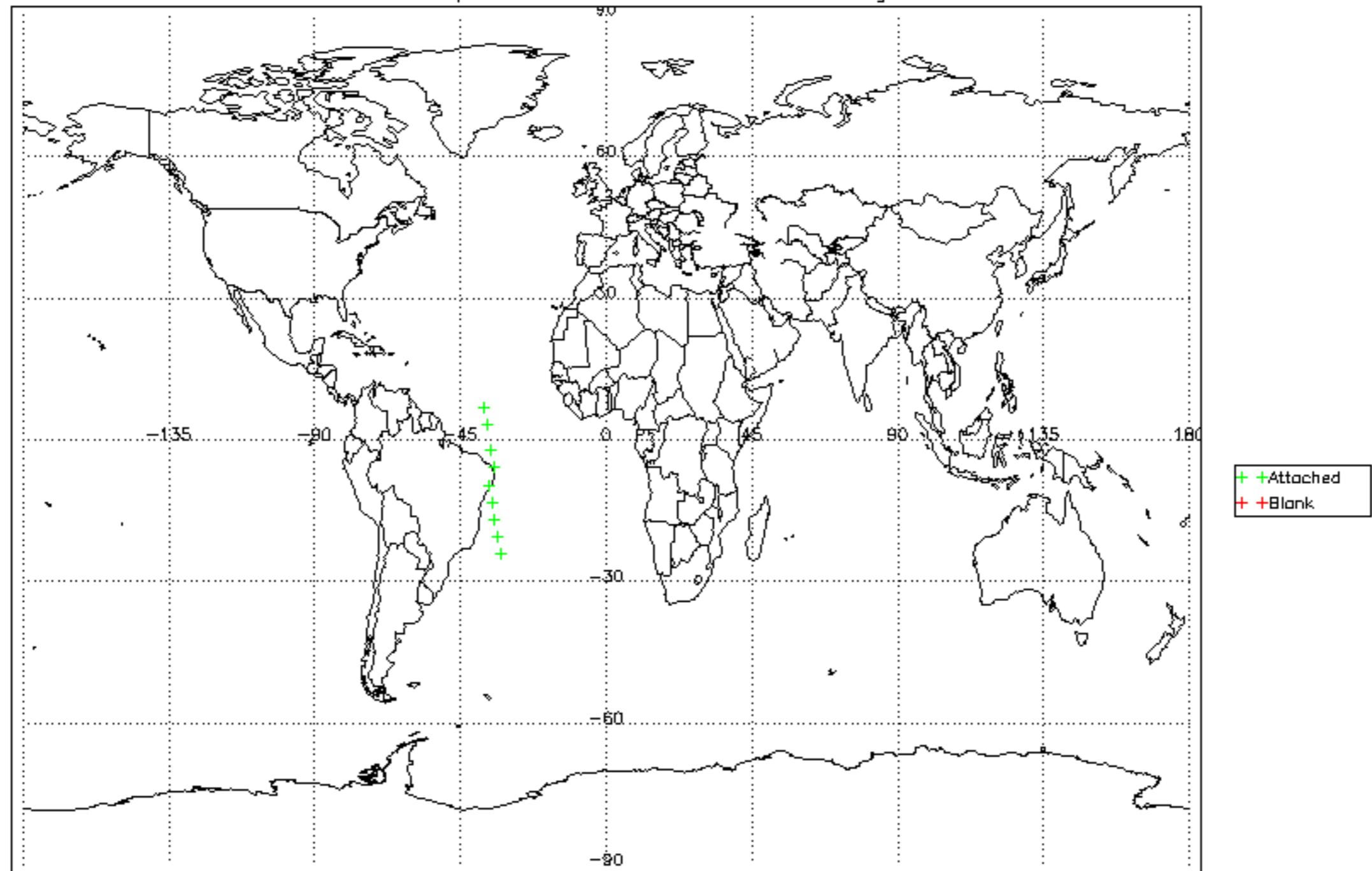
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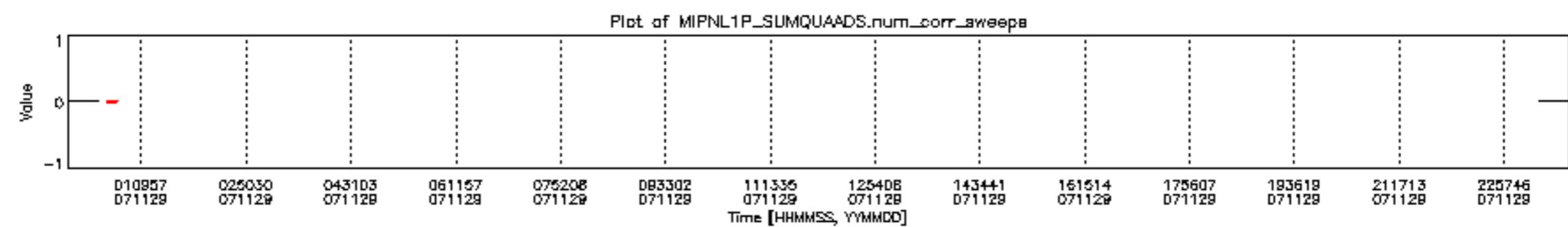


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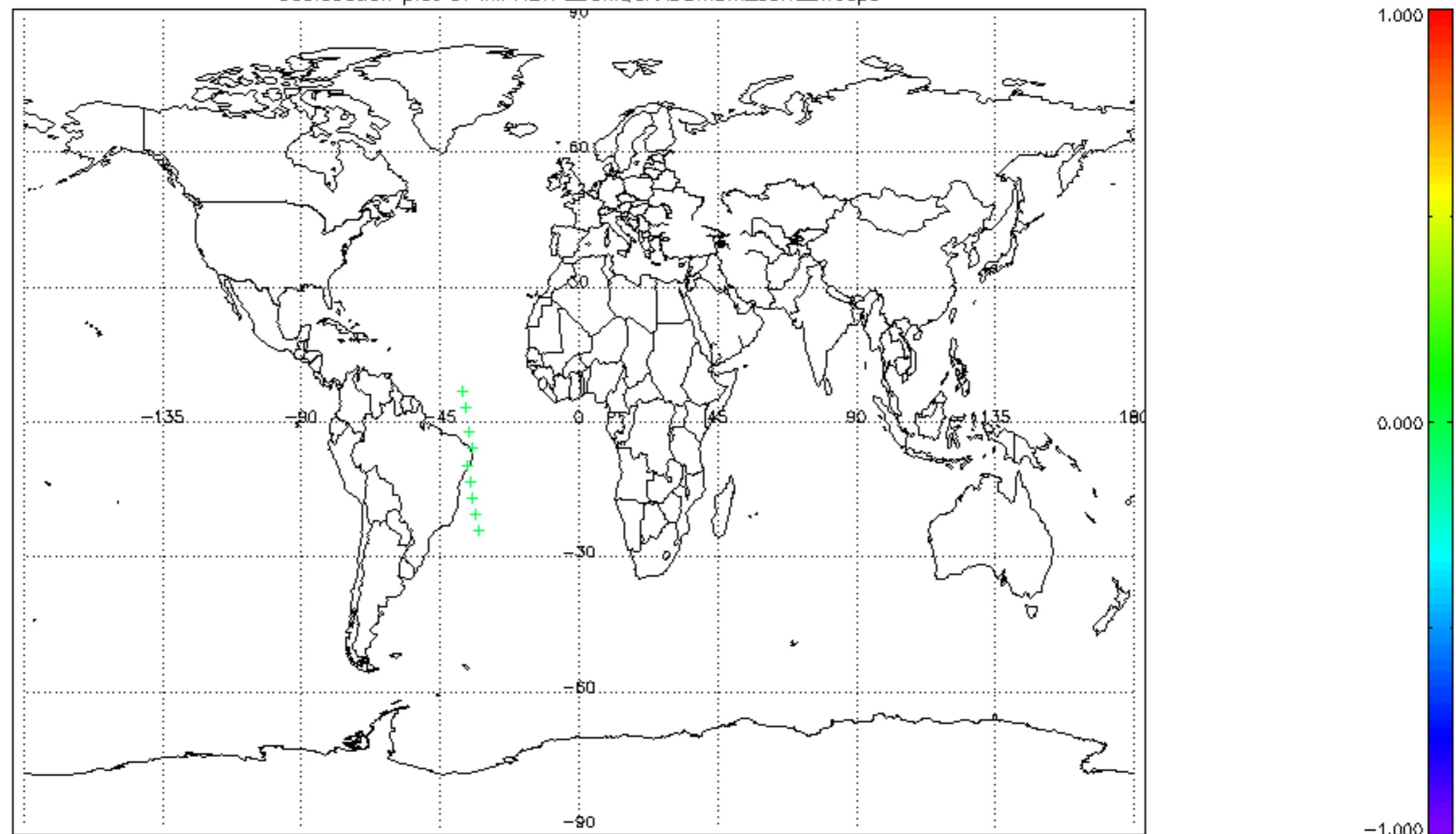


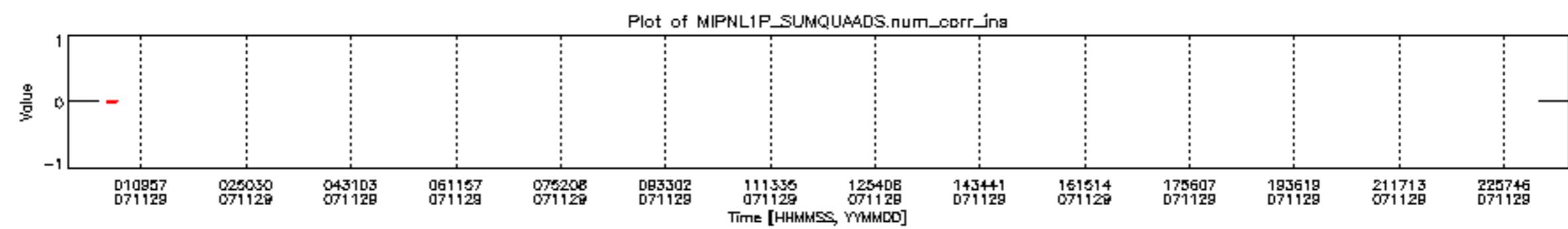
Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag

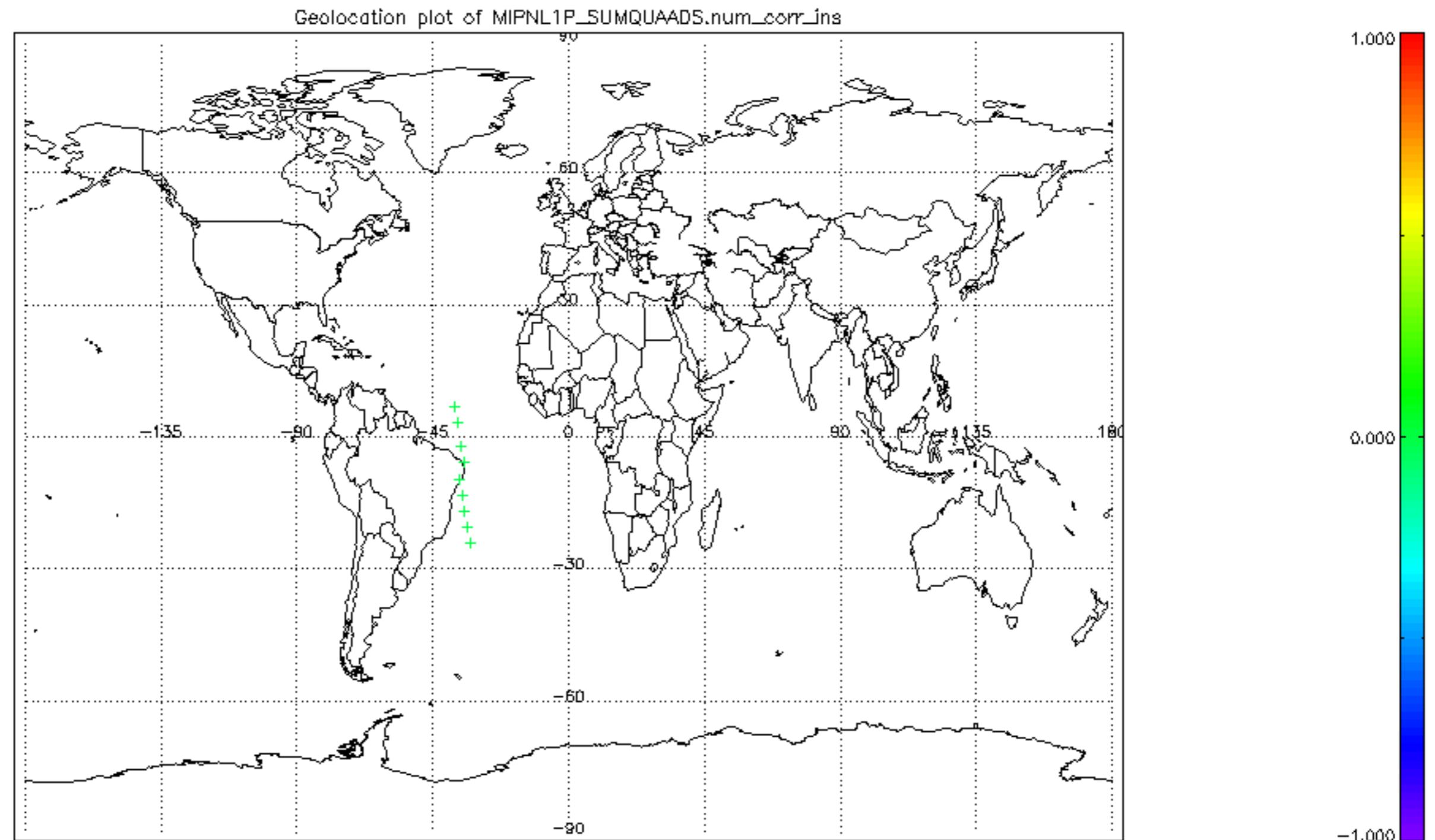


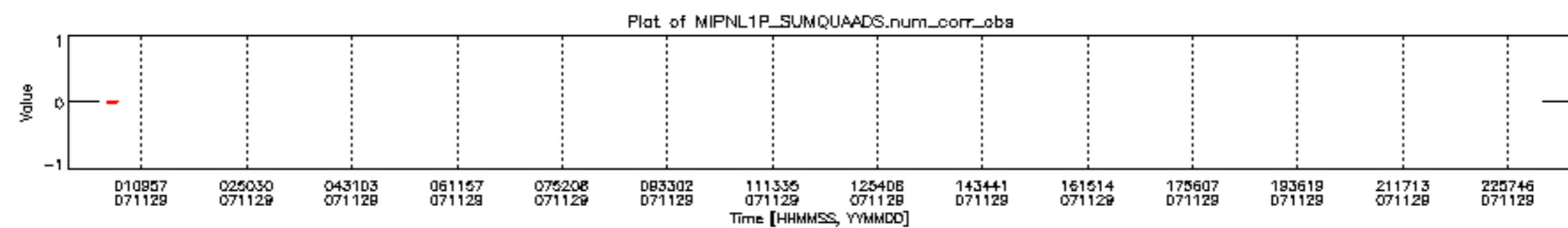


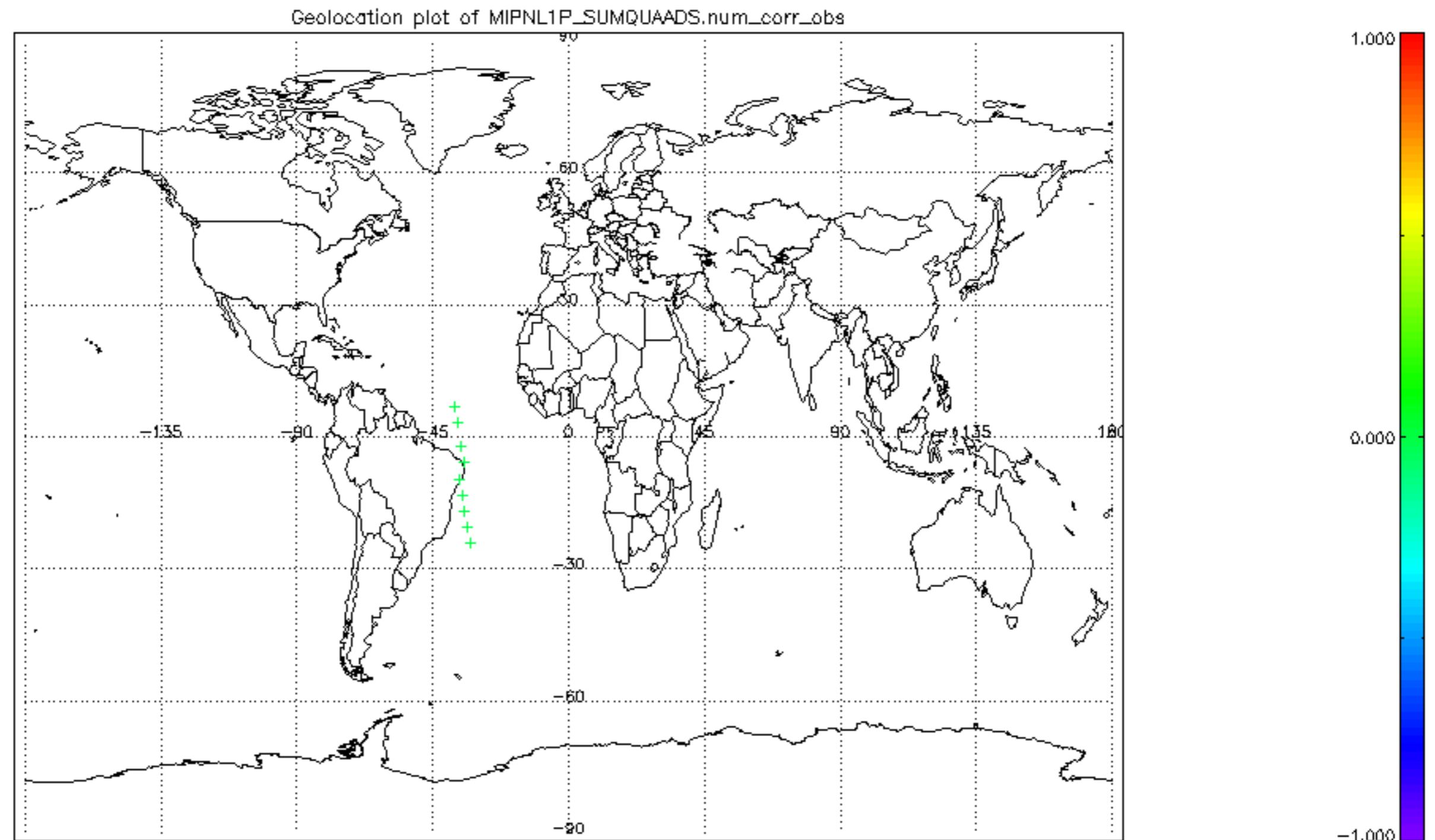
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps

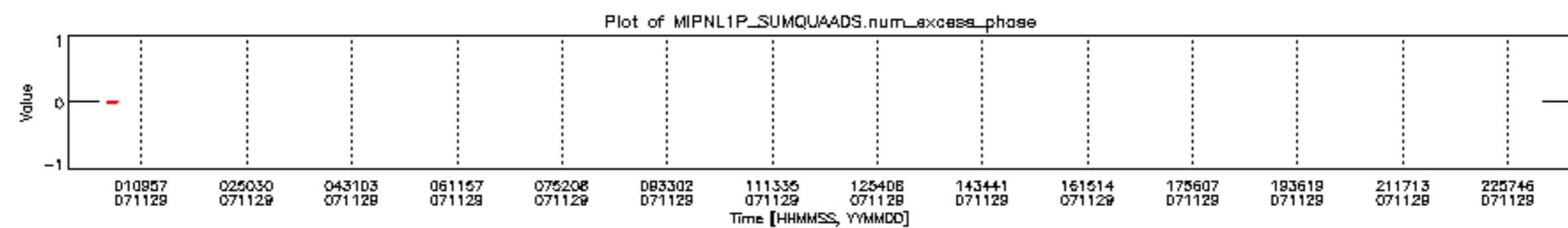


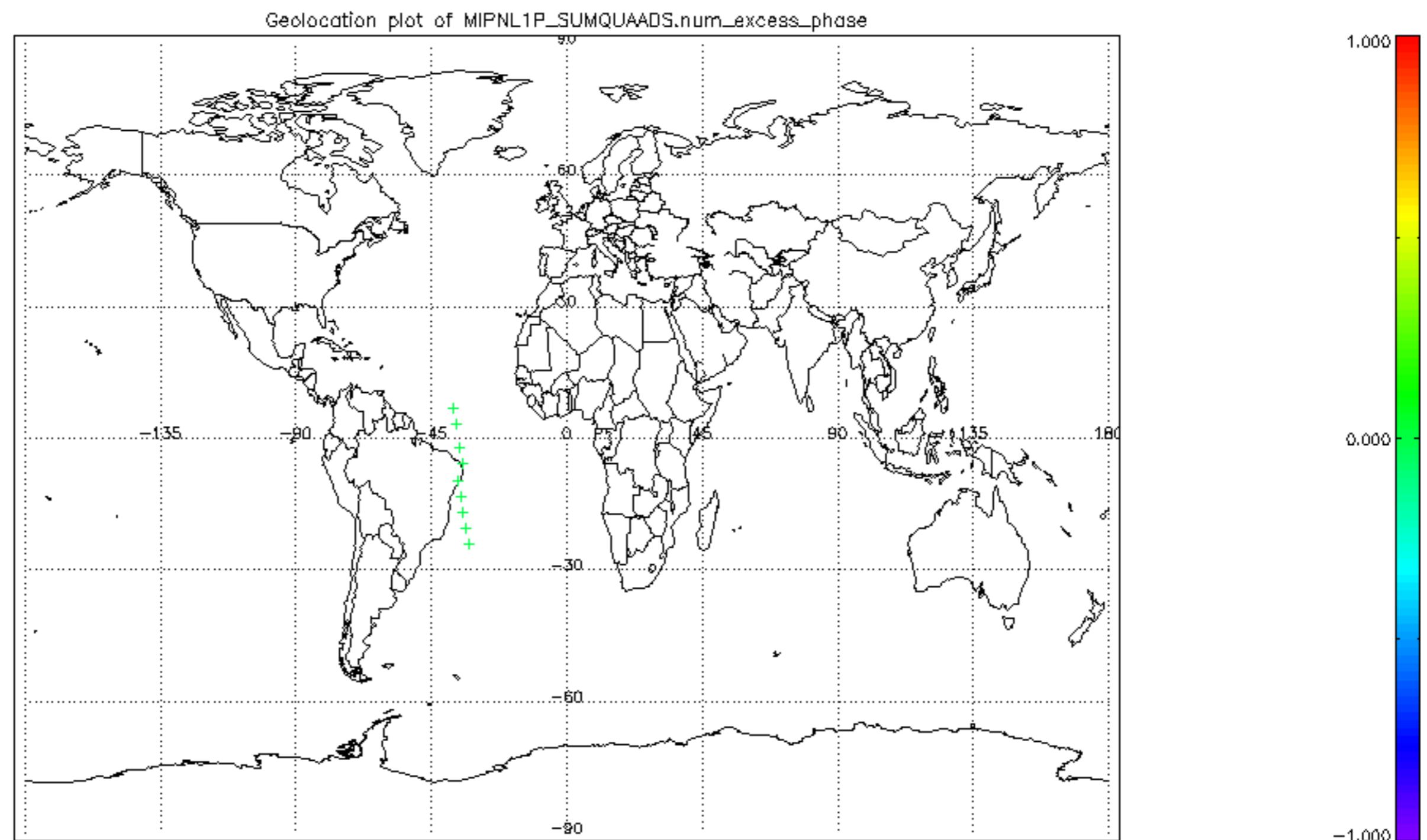


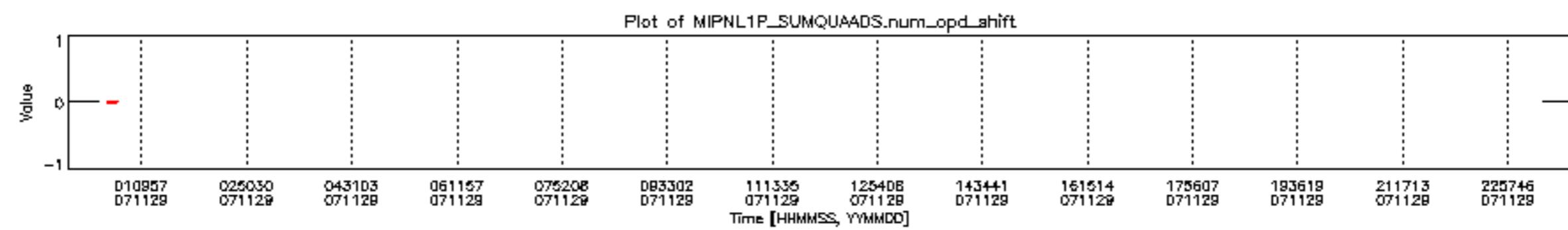


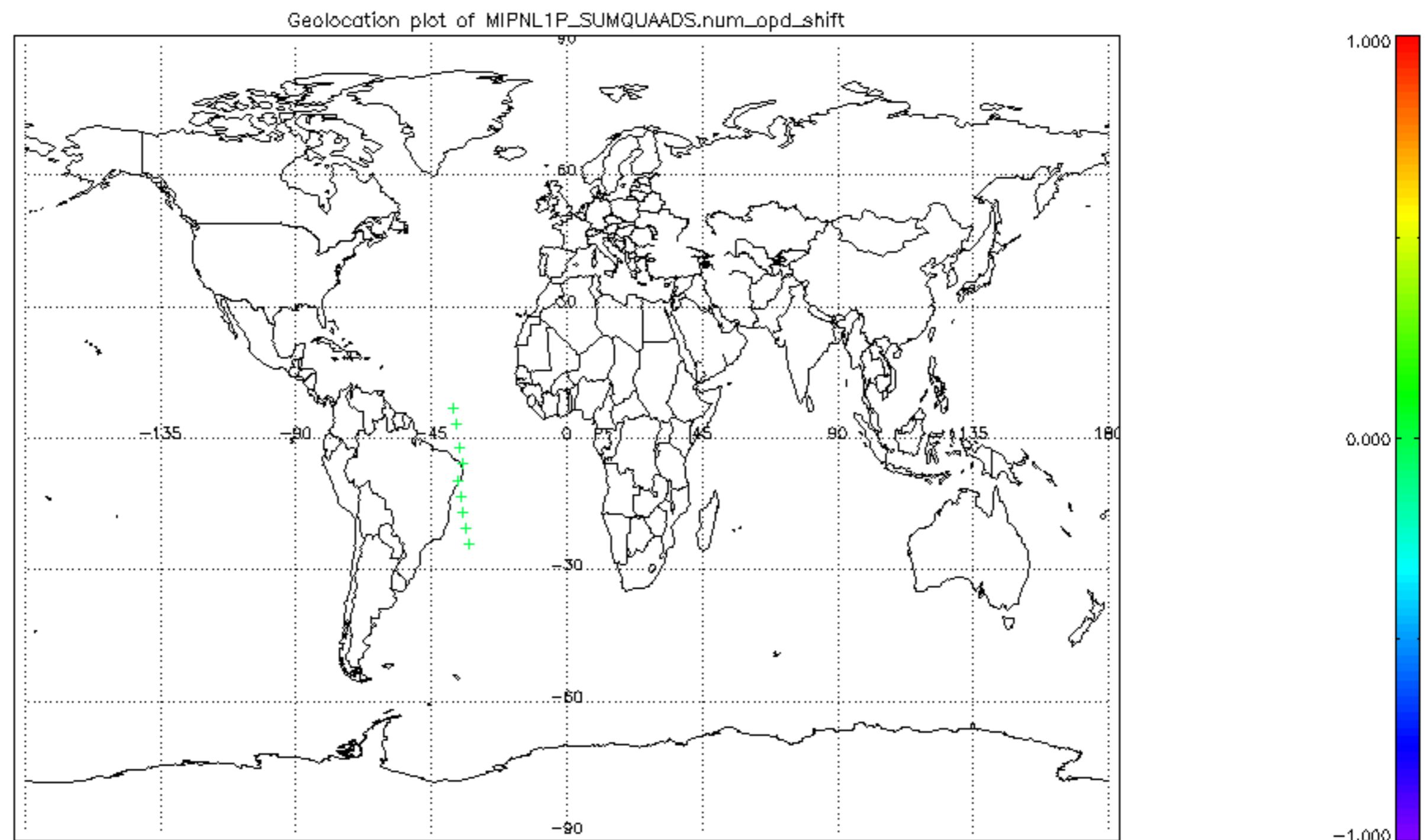


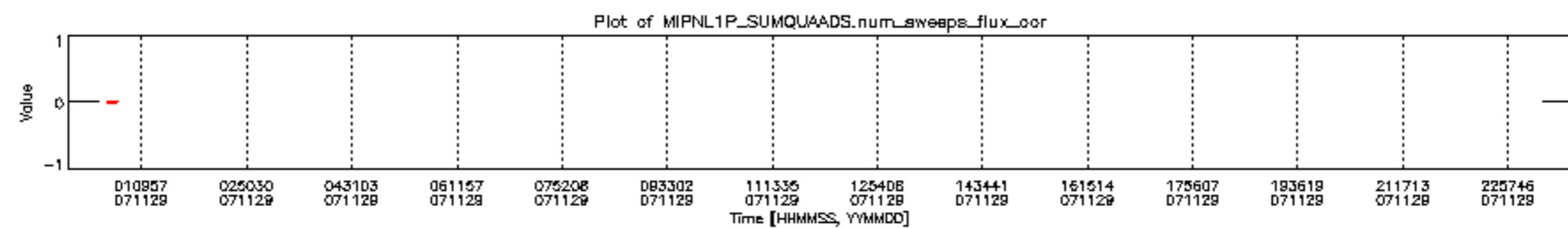


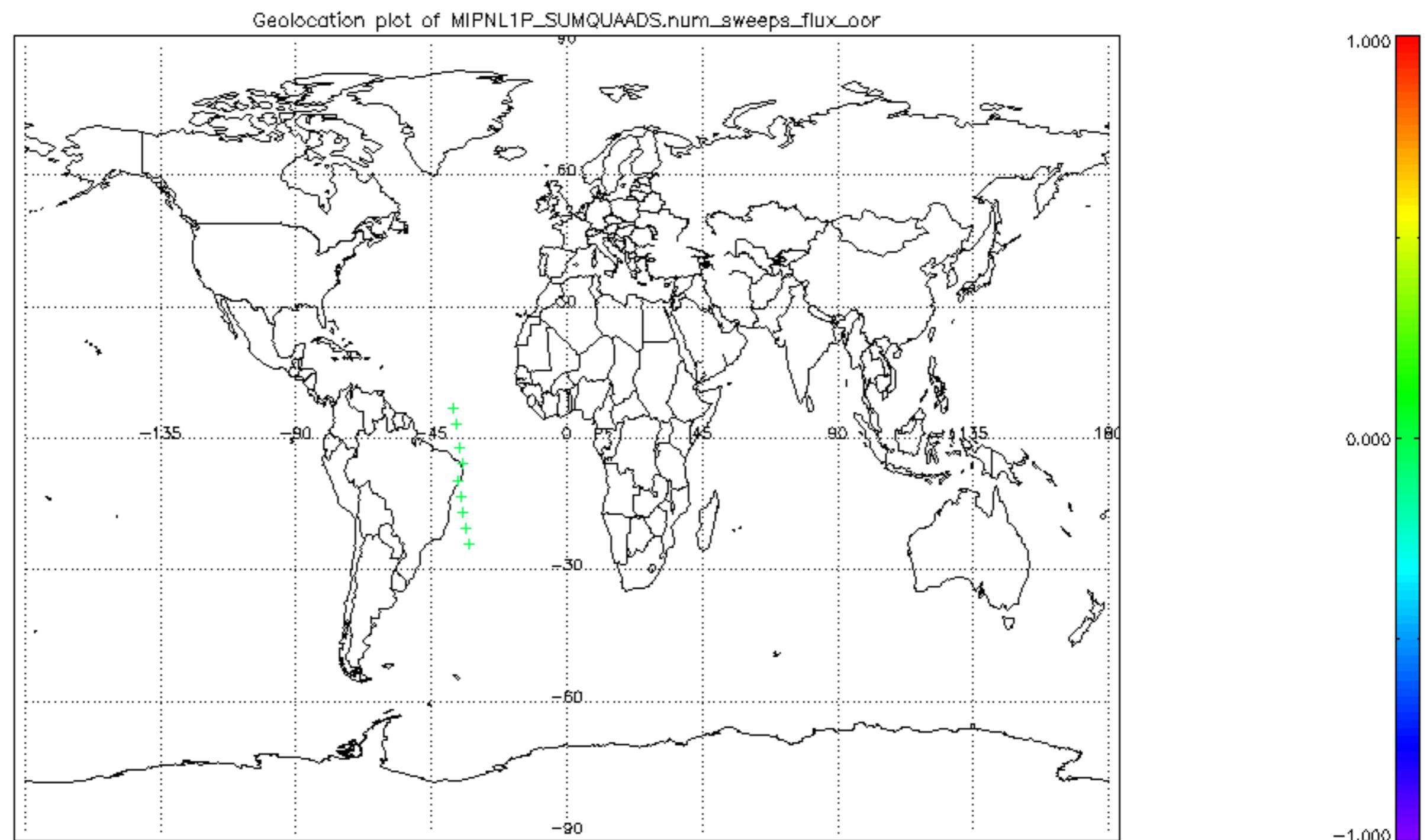


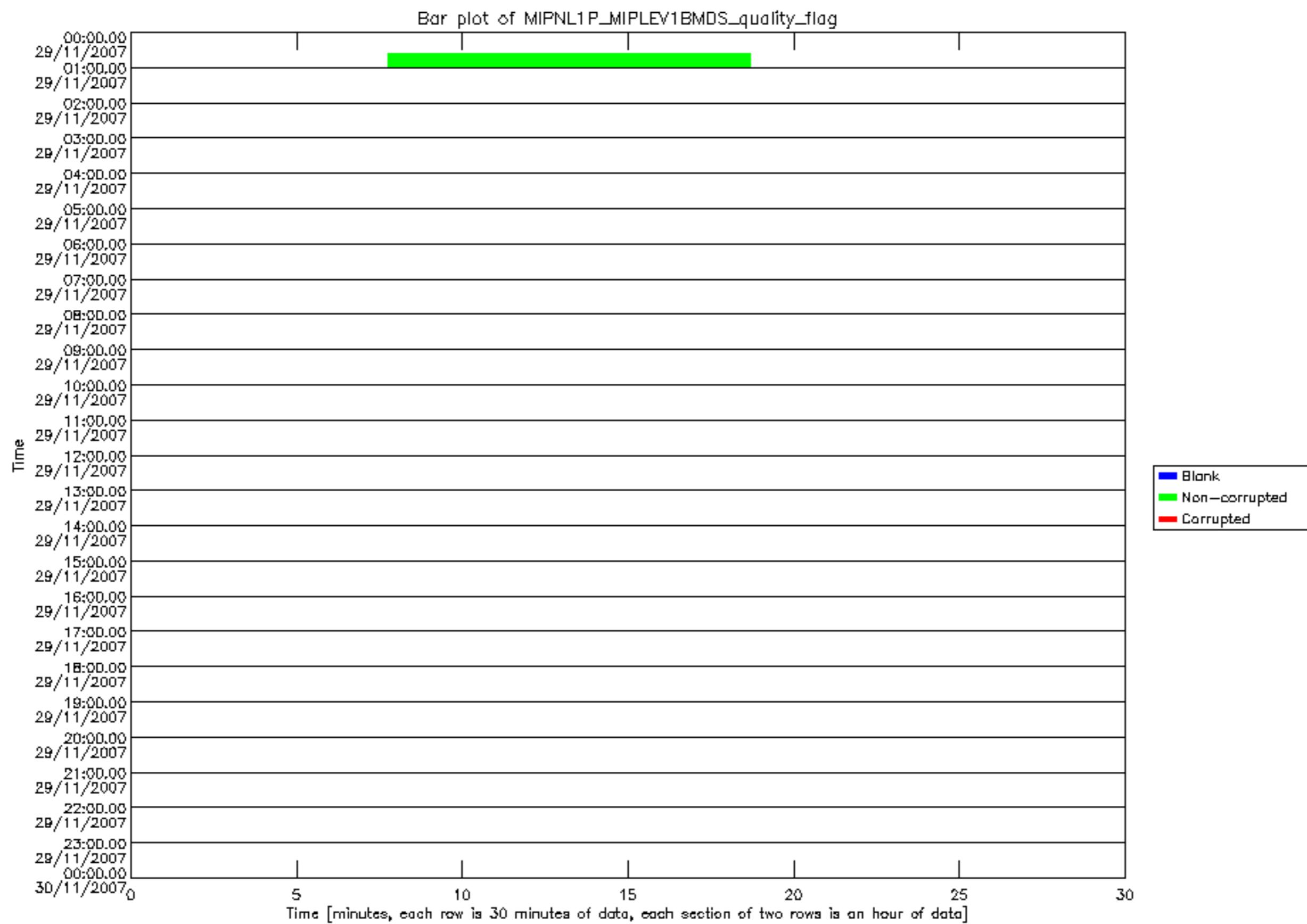




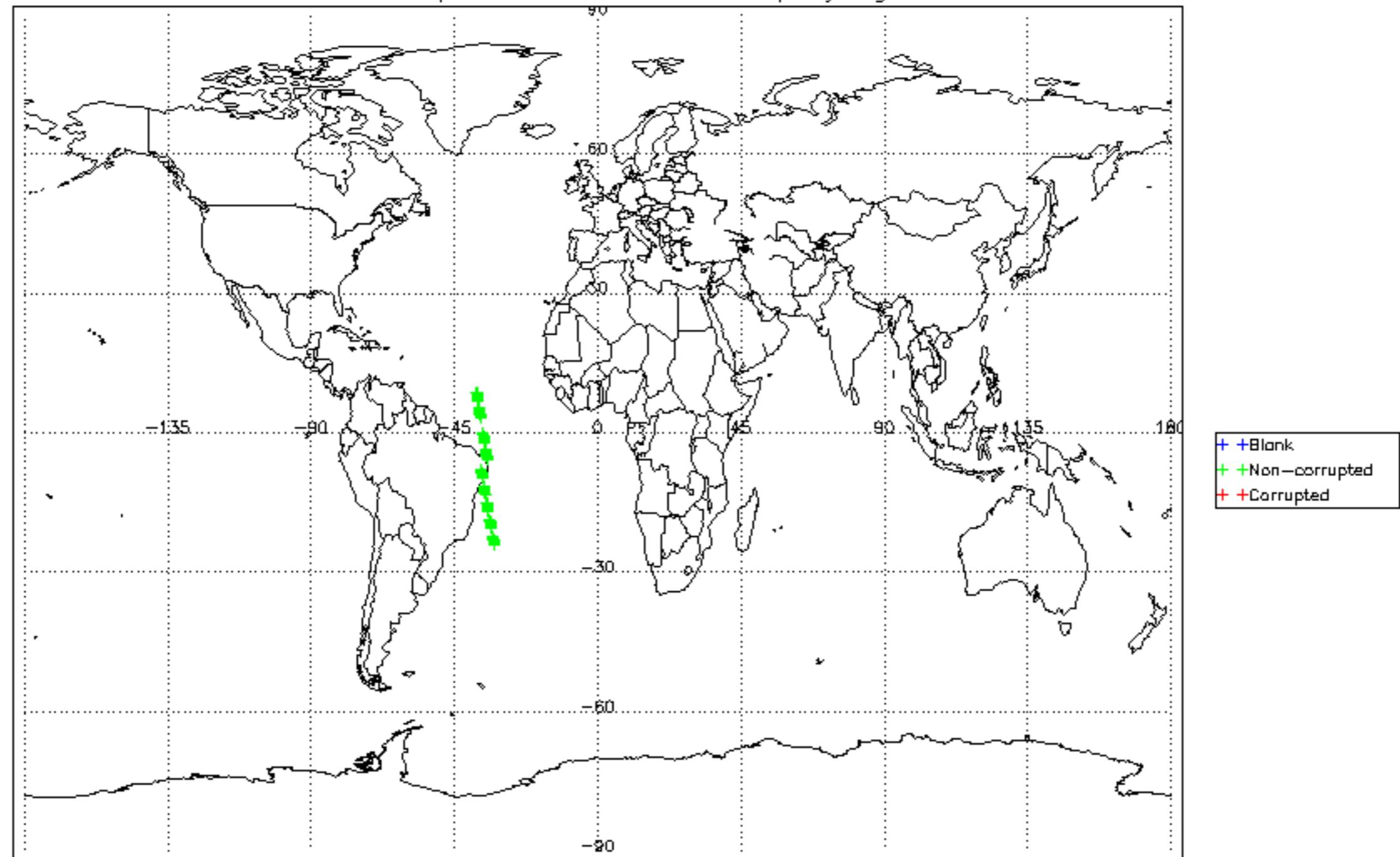


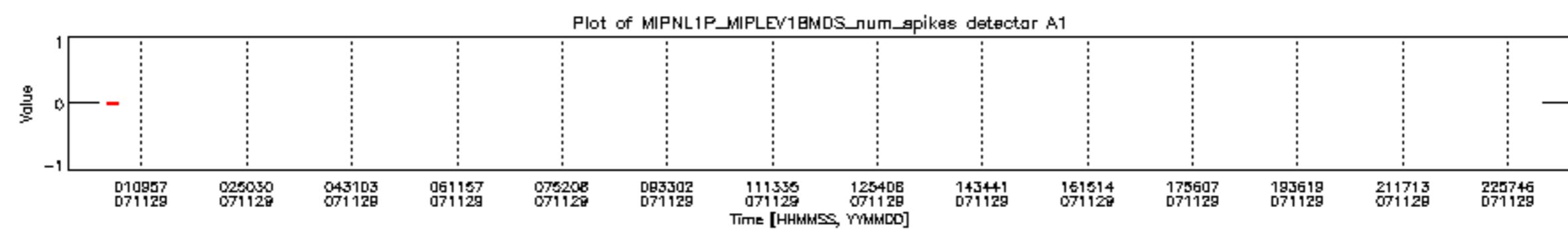




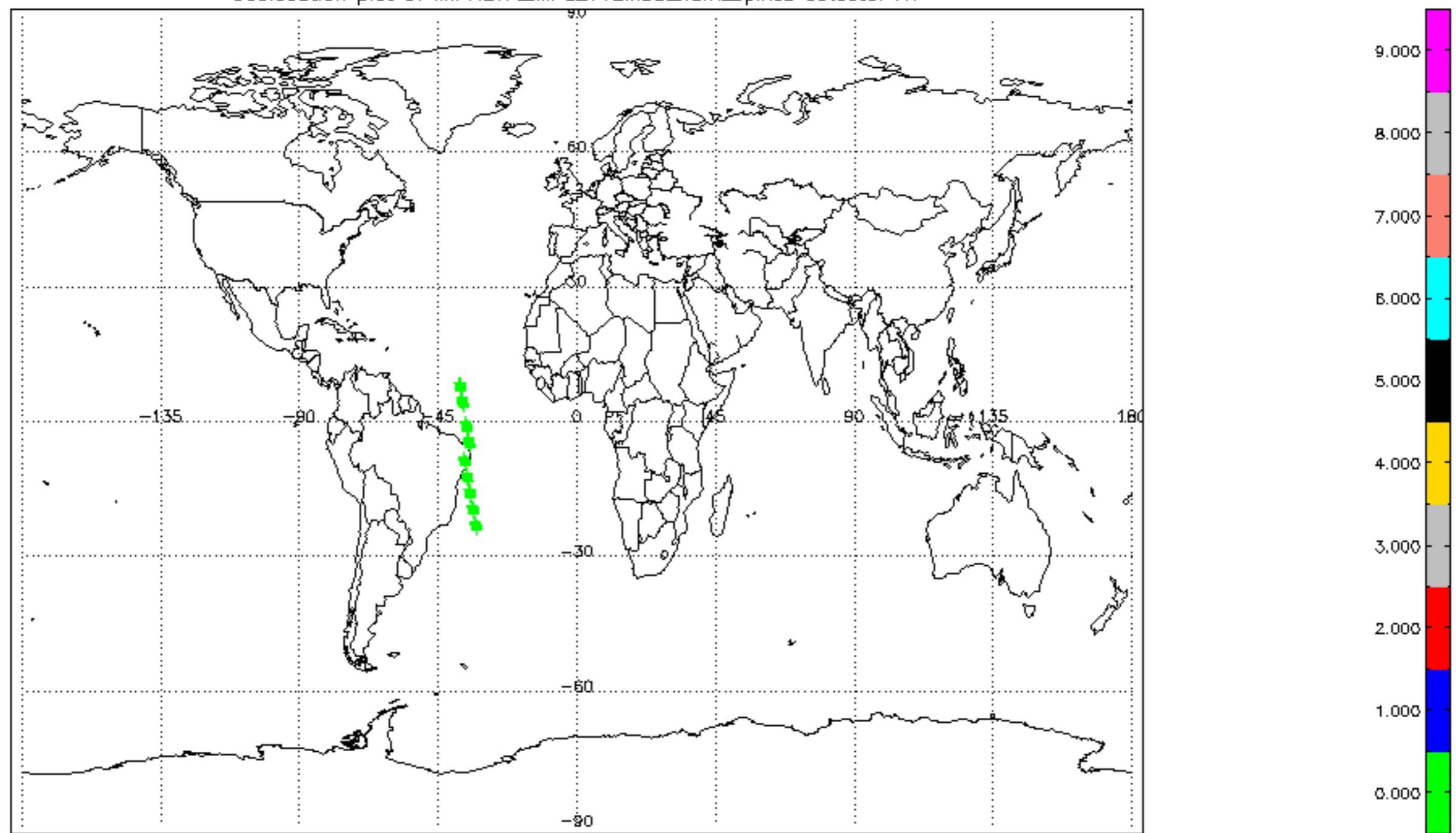


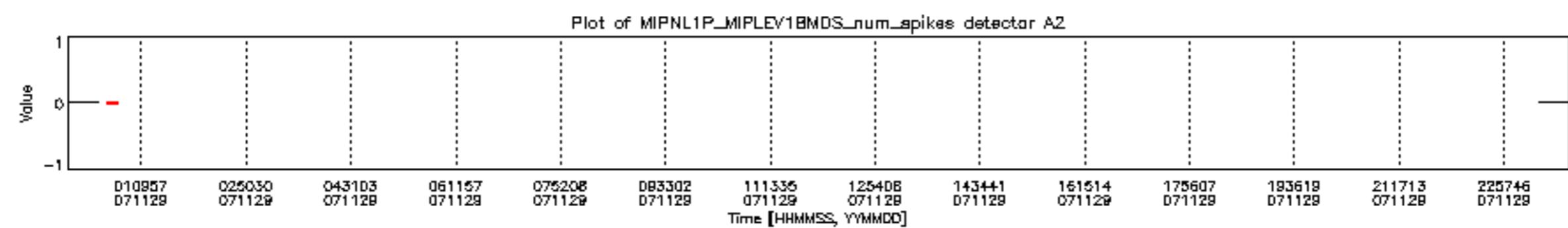
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag



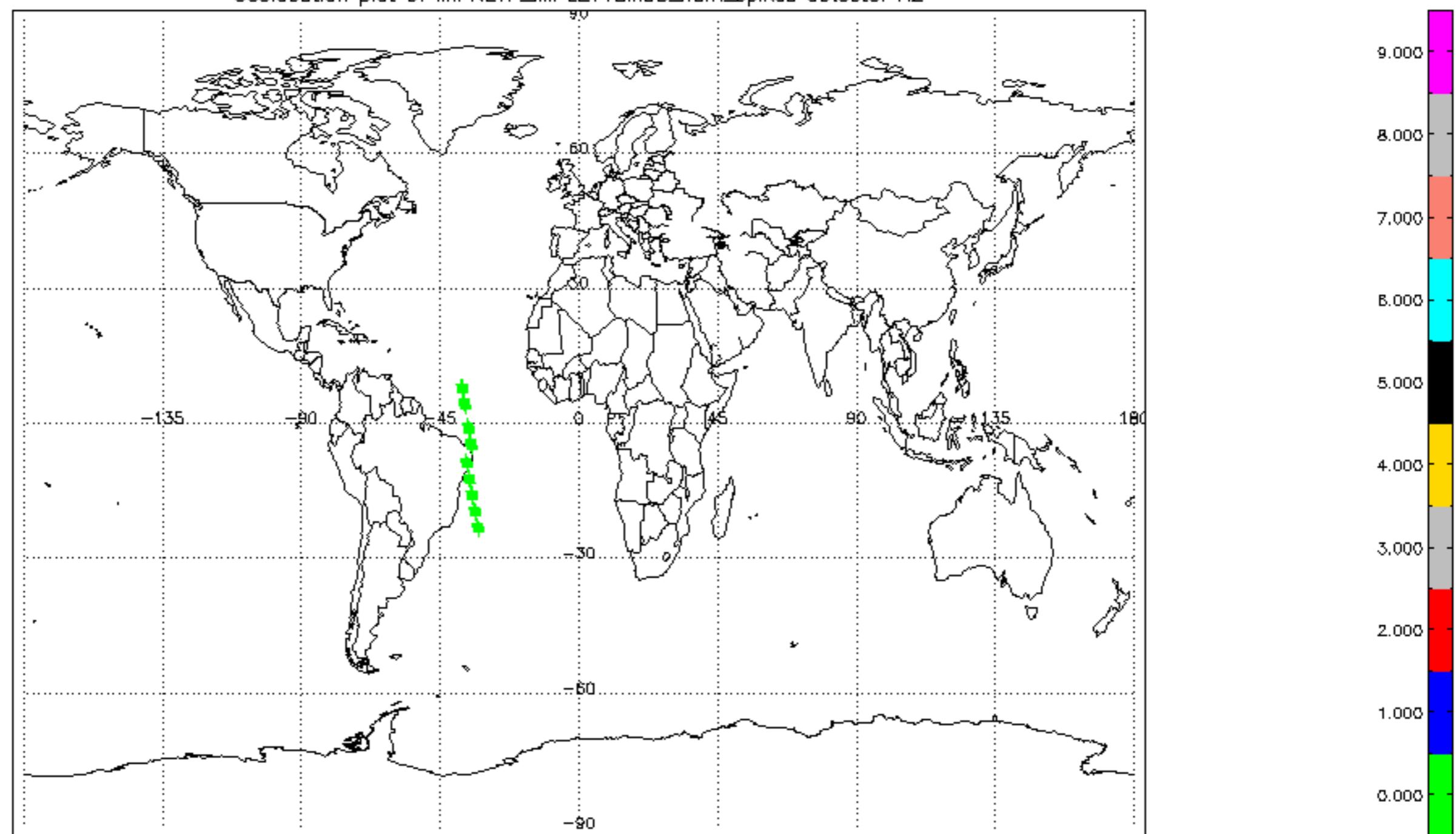


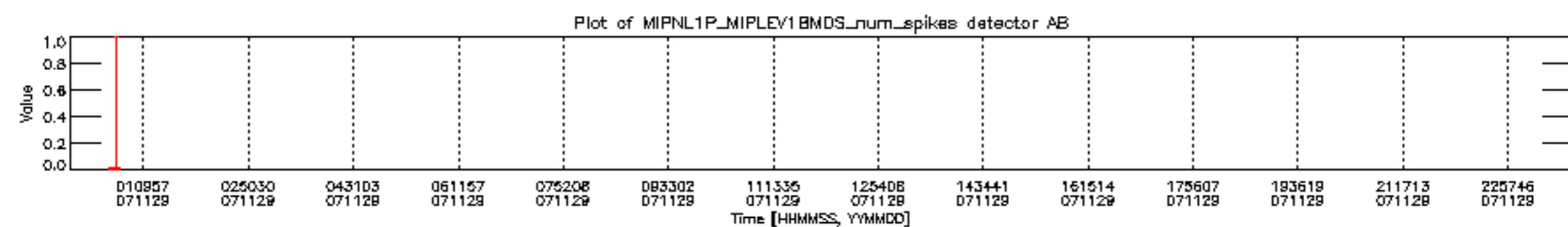
Geolocation plot of MIPNL1P_MIPLEV1BMD5_num_spikes detector A1



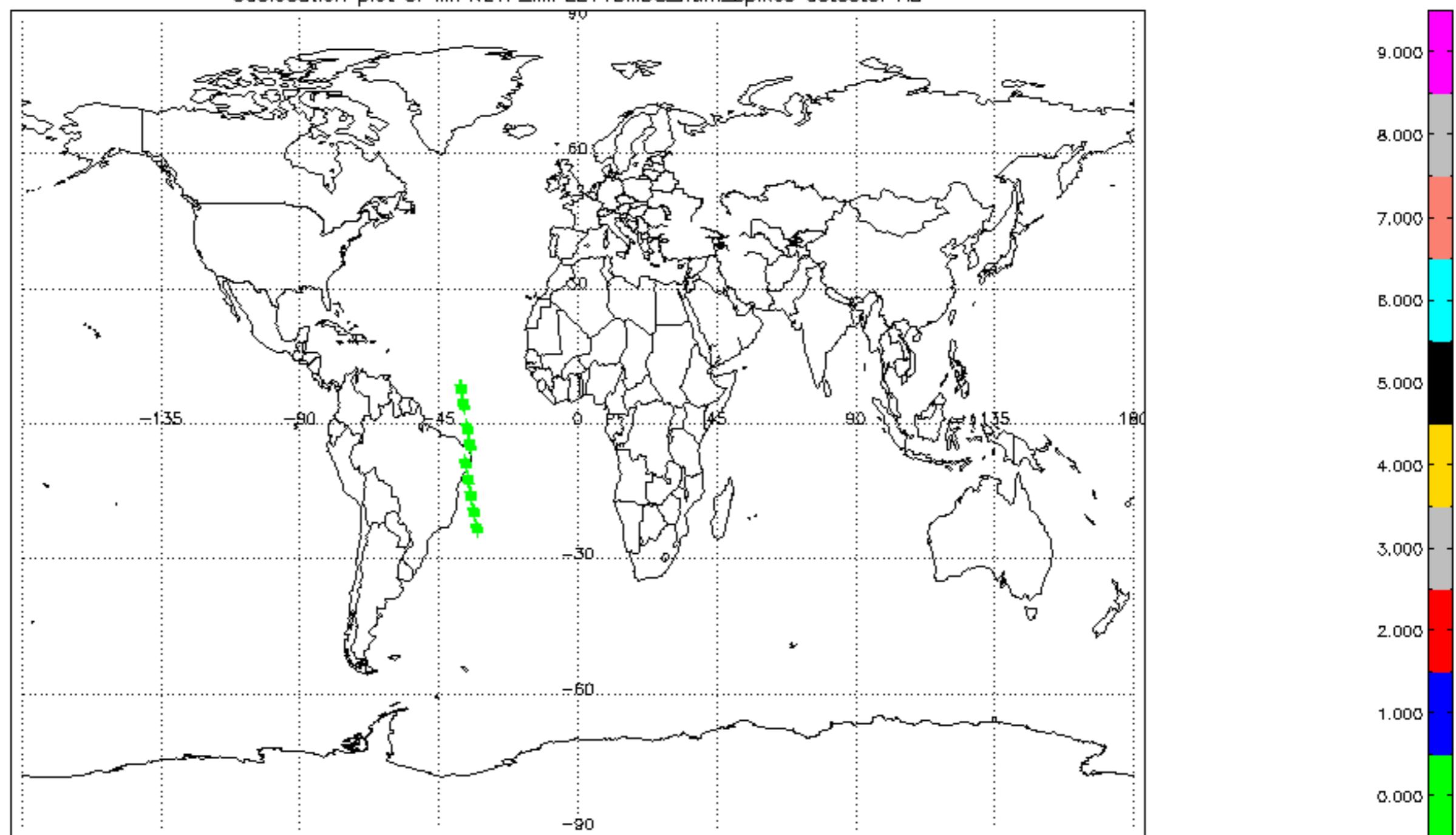


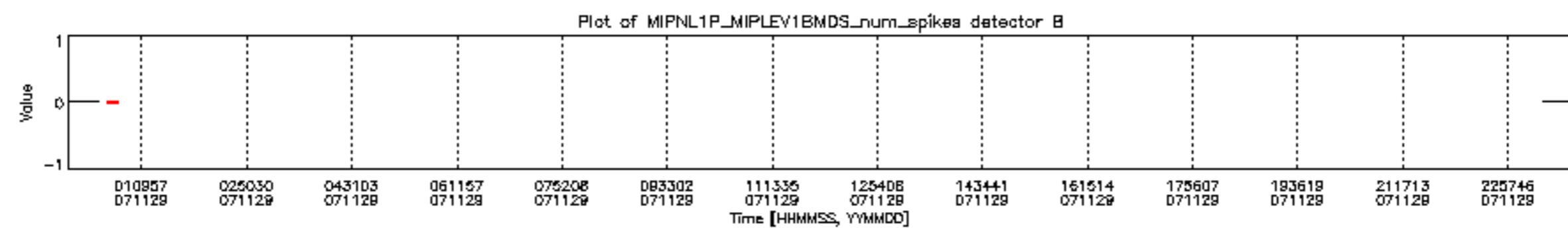
Geolocation plot of MIPNL1P_MIPLEV1BMD5_num_spikes detector A2



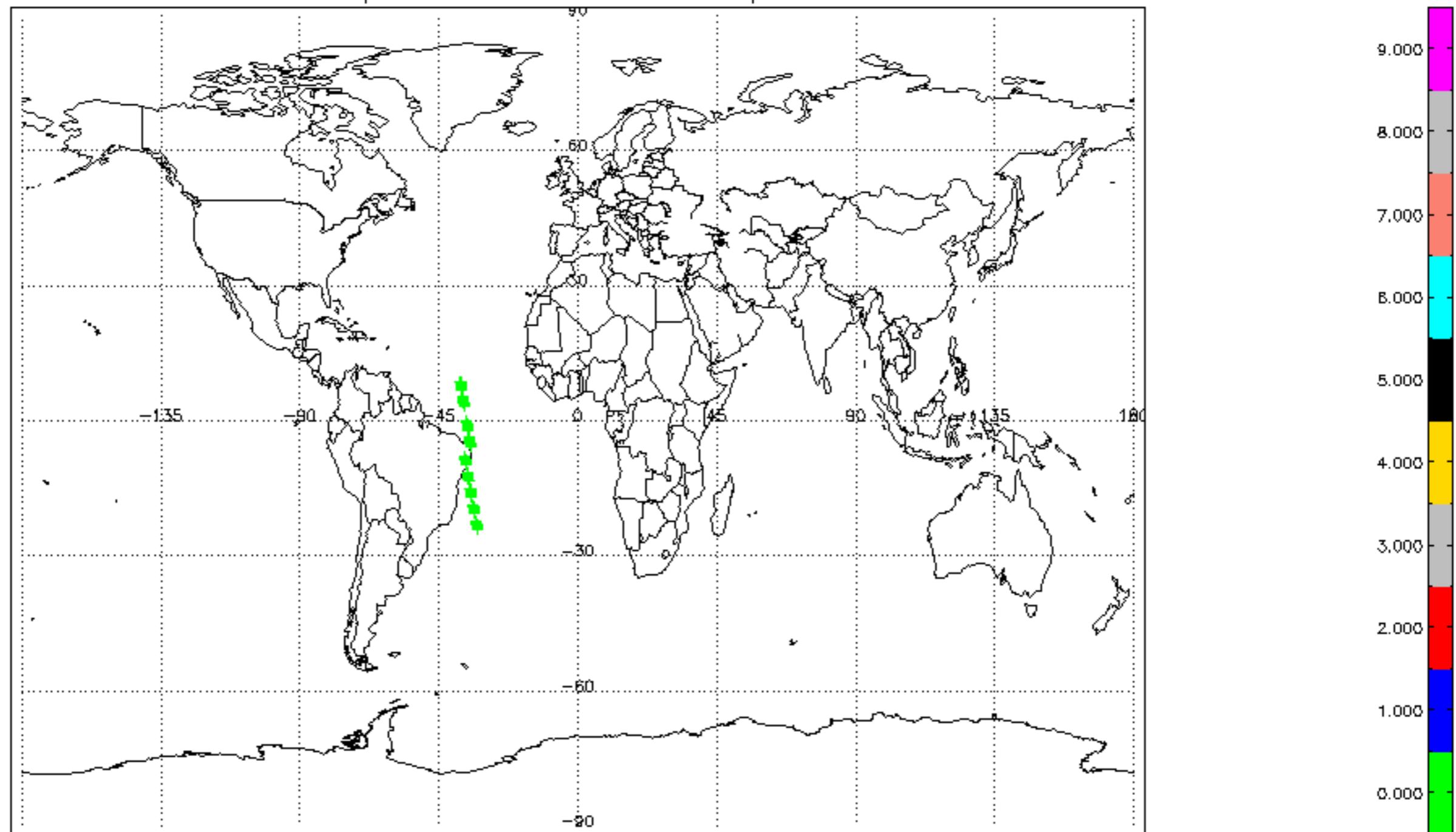


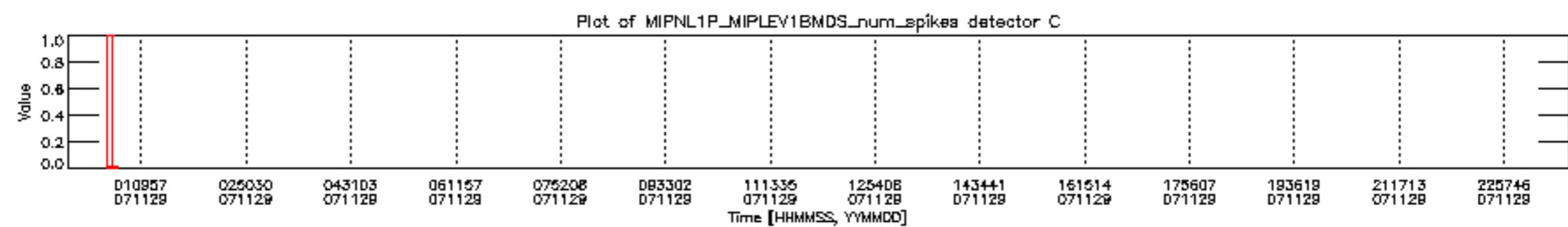
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB



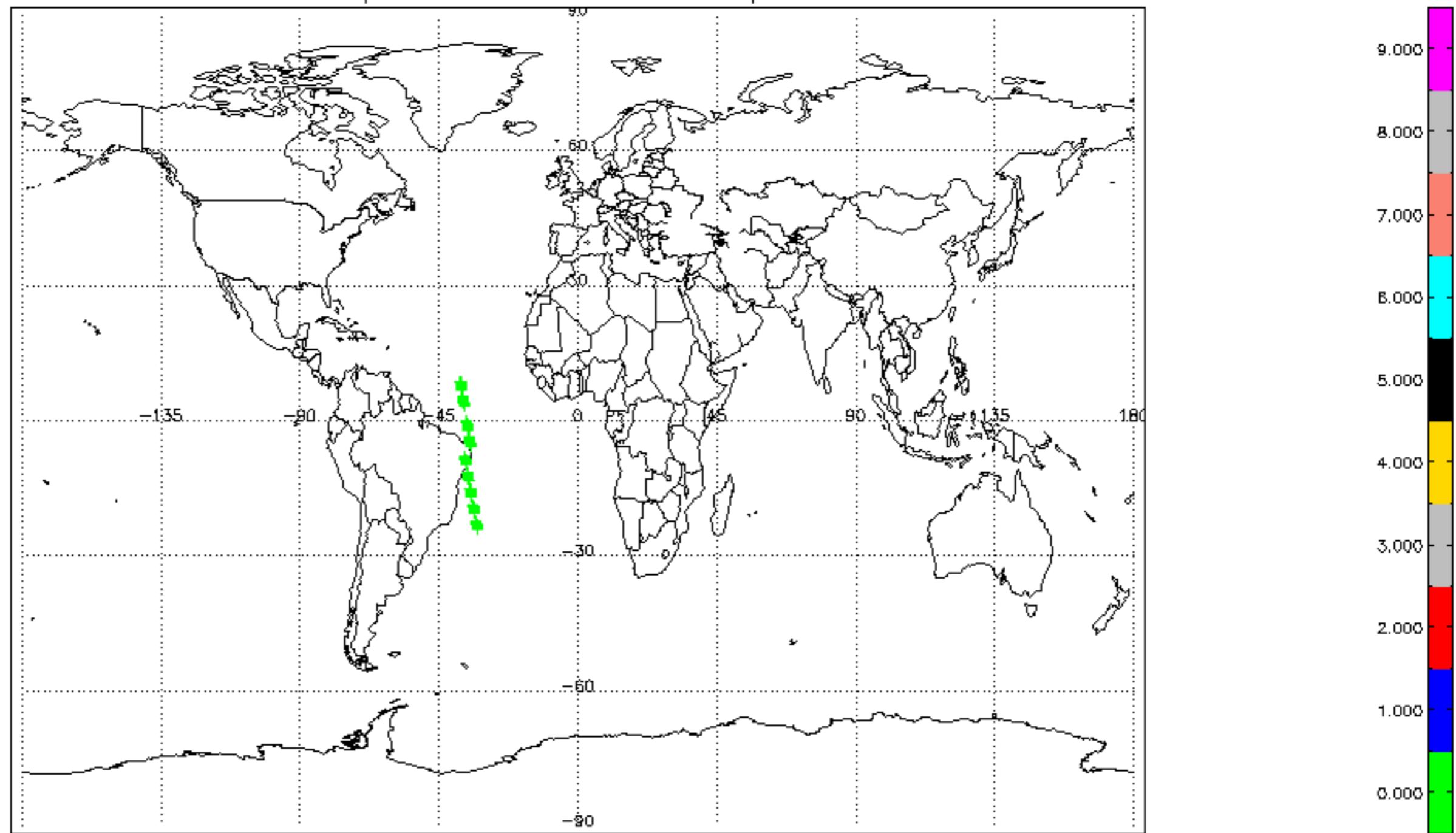


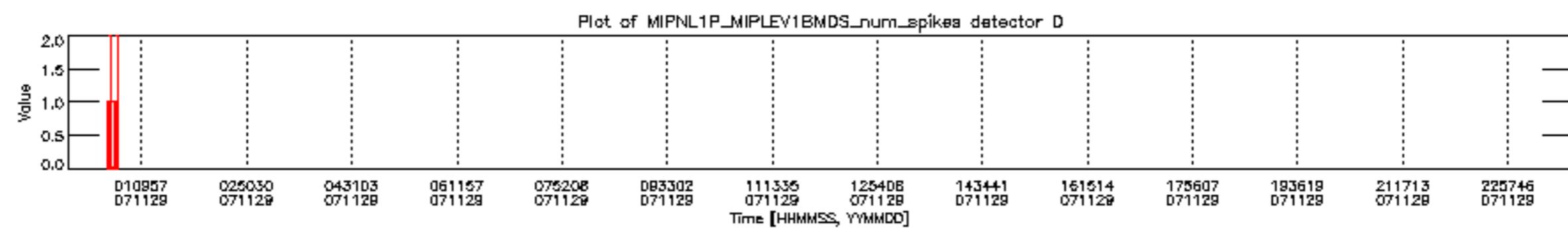
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B



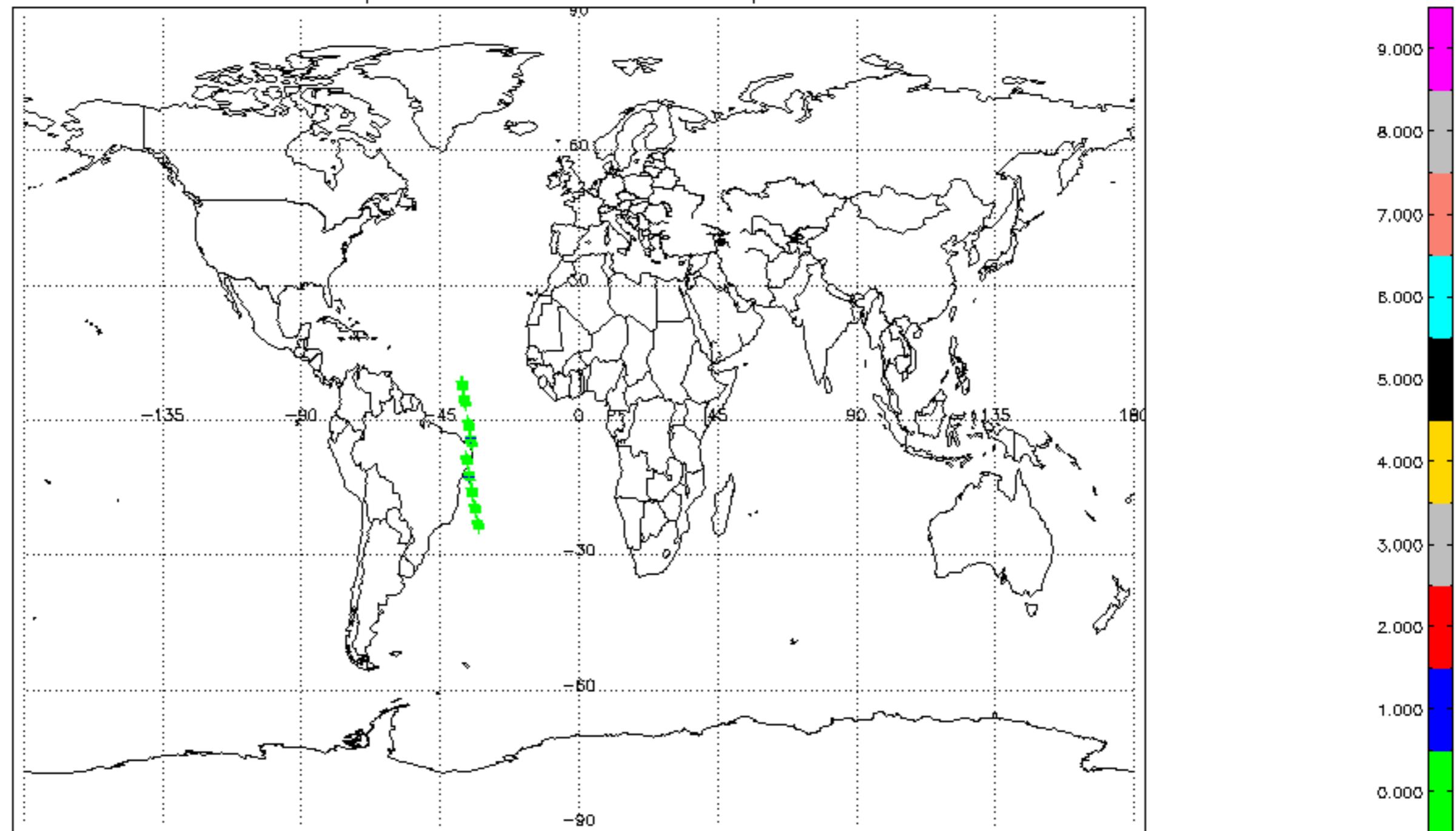


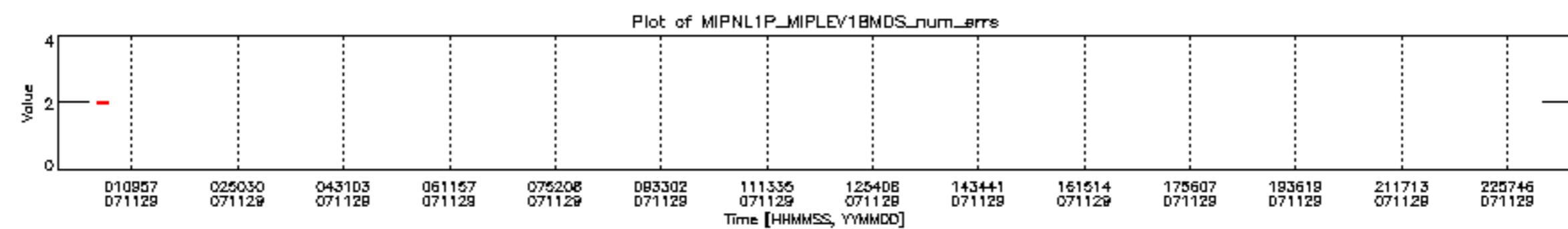
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C

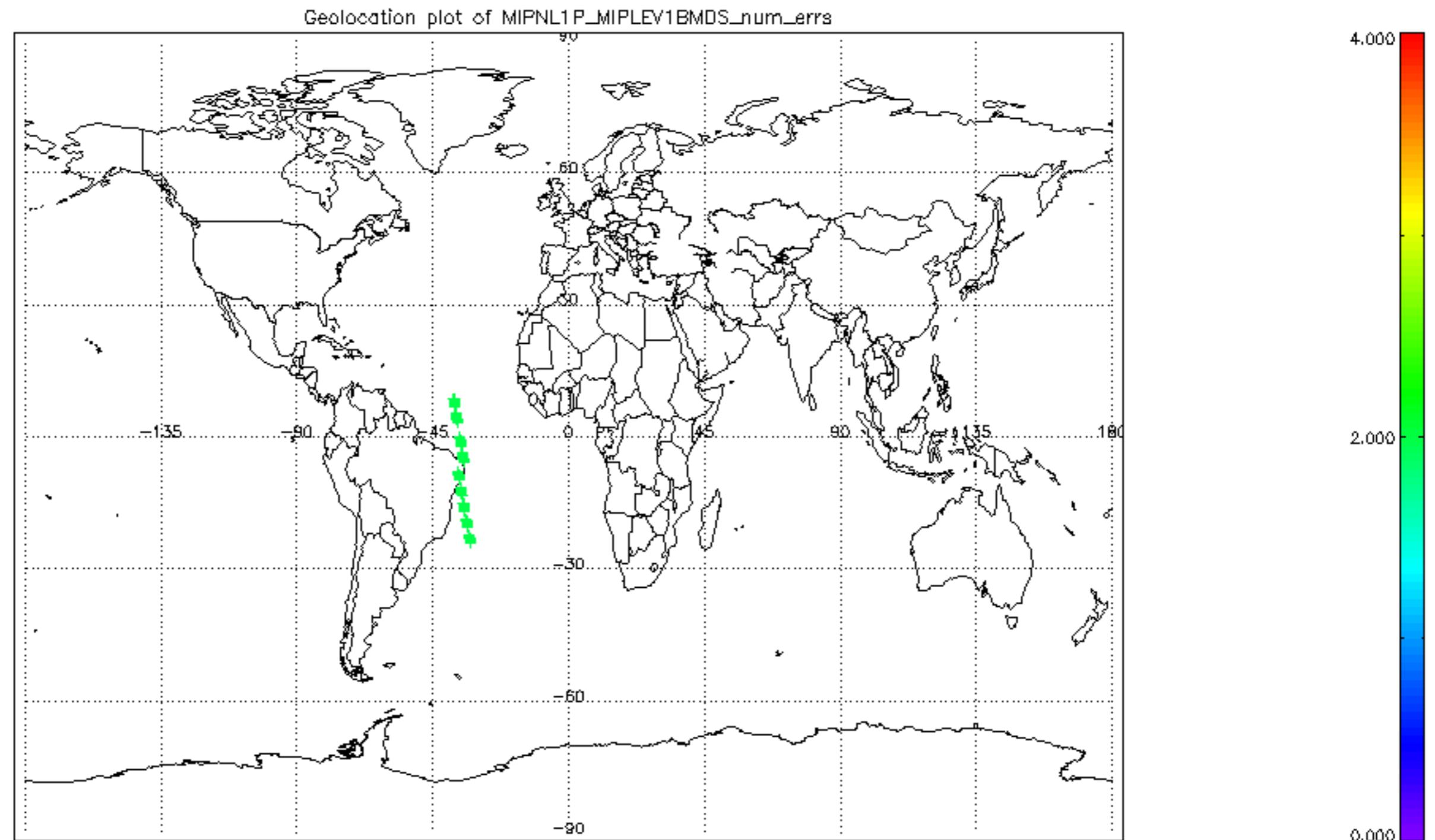


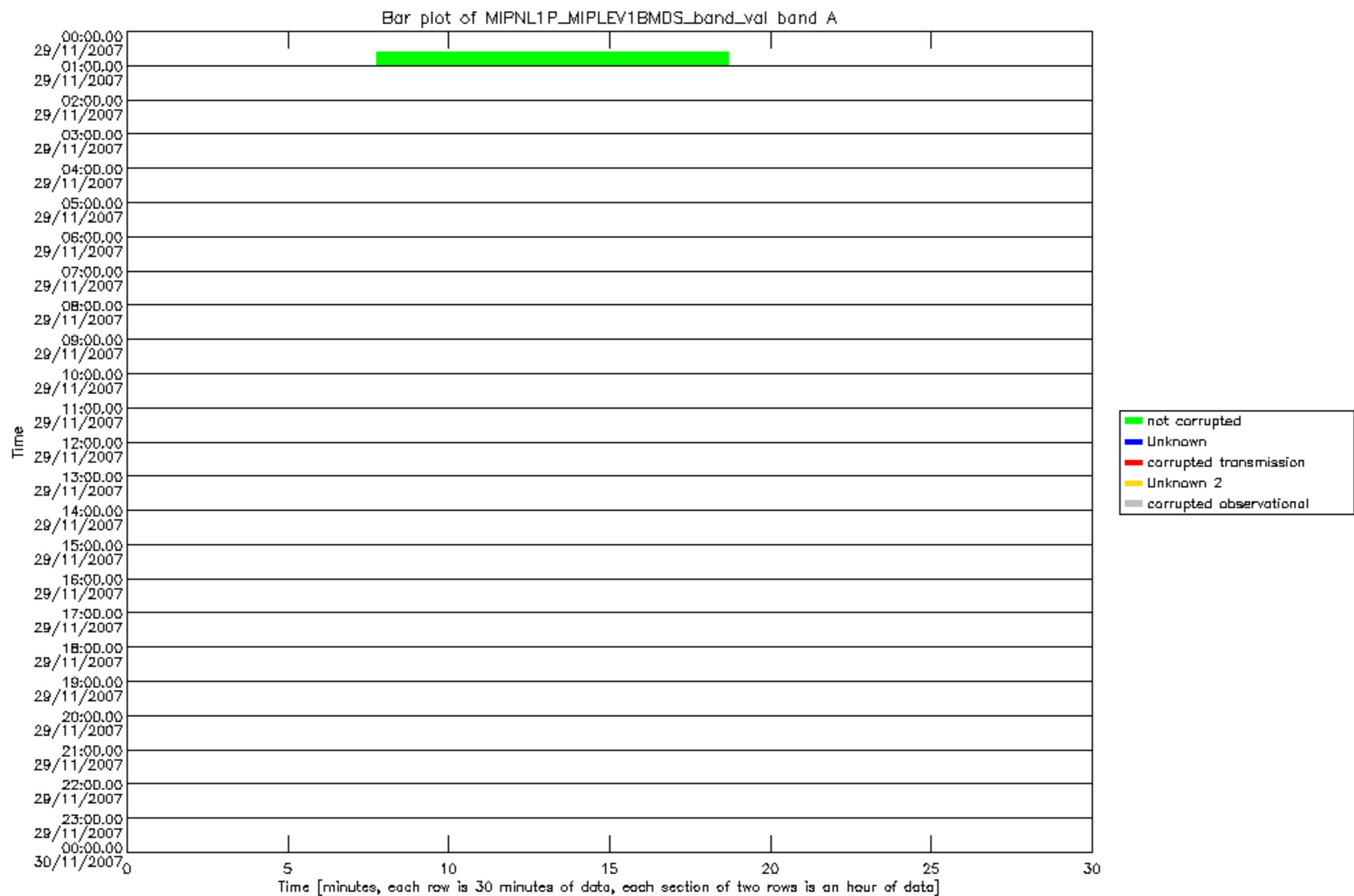


Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D

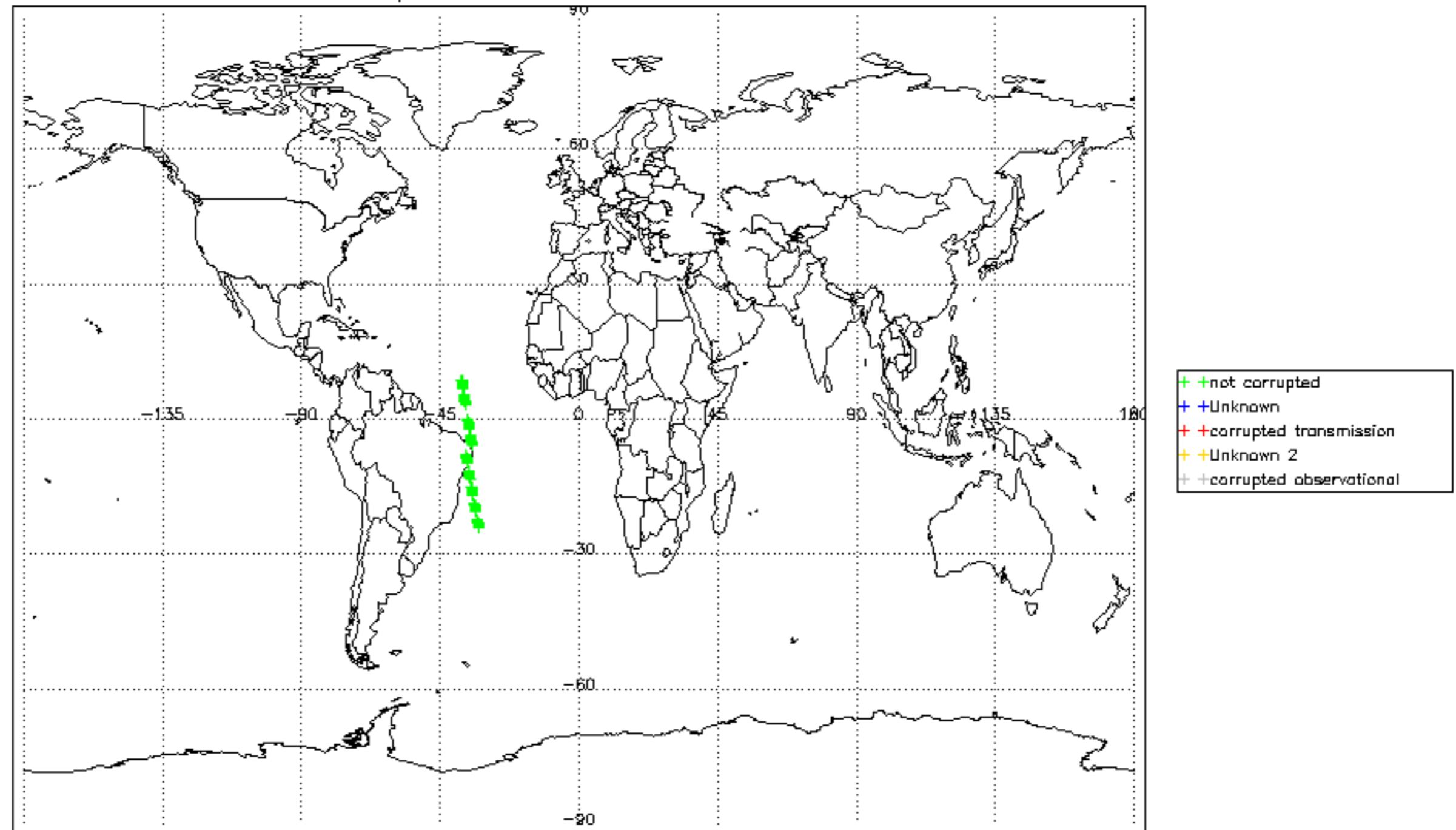


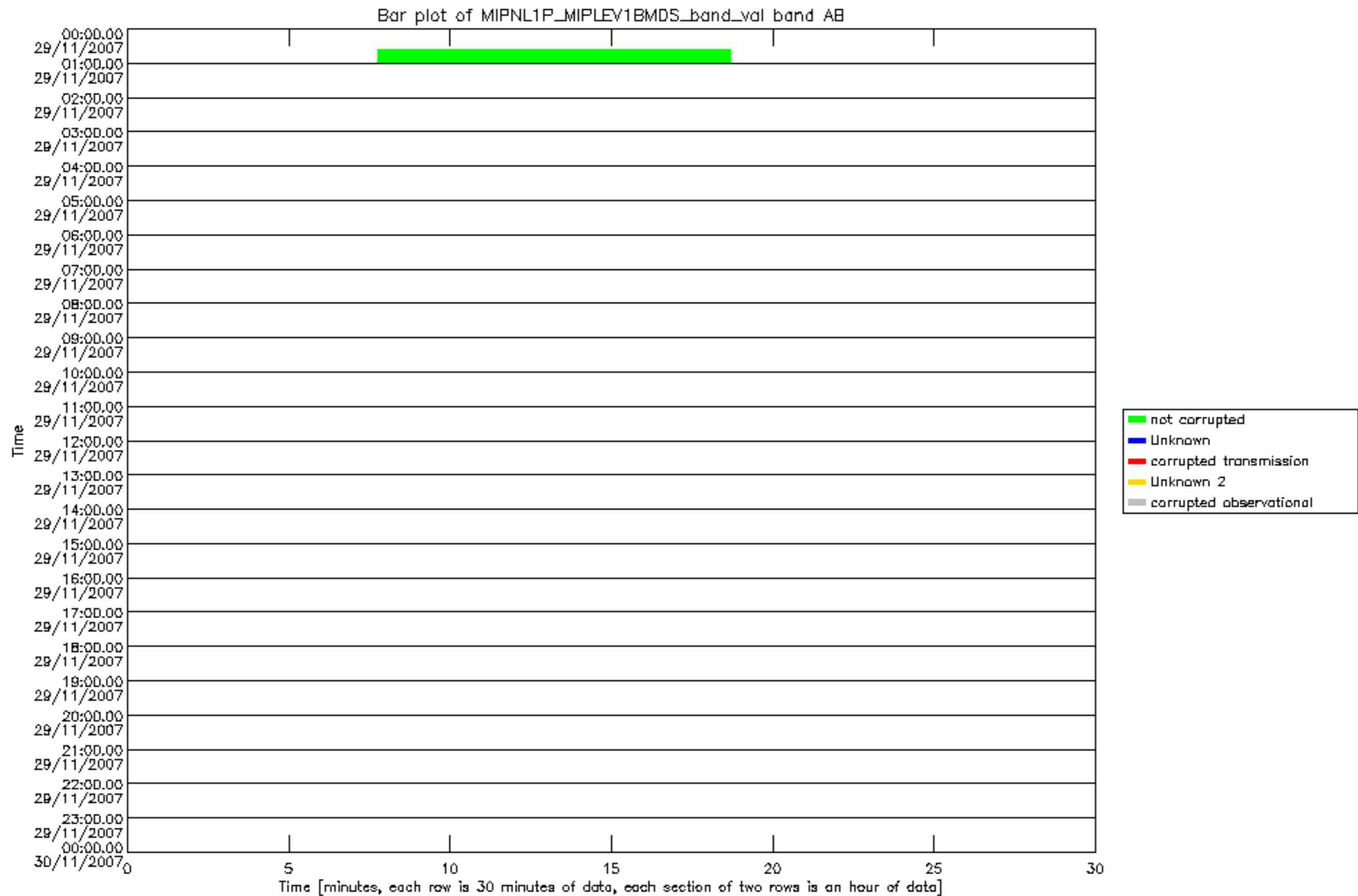




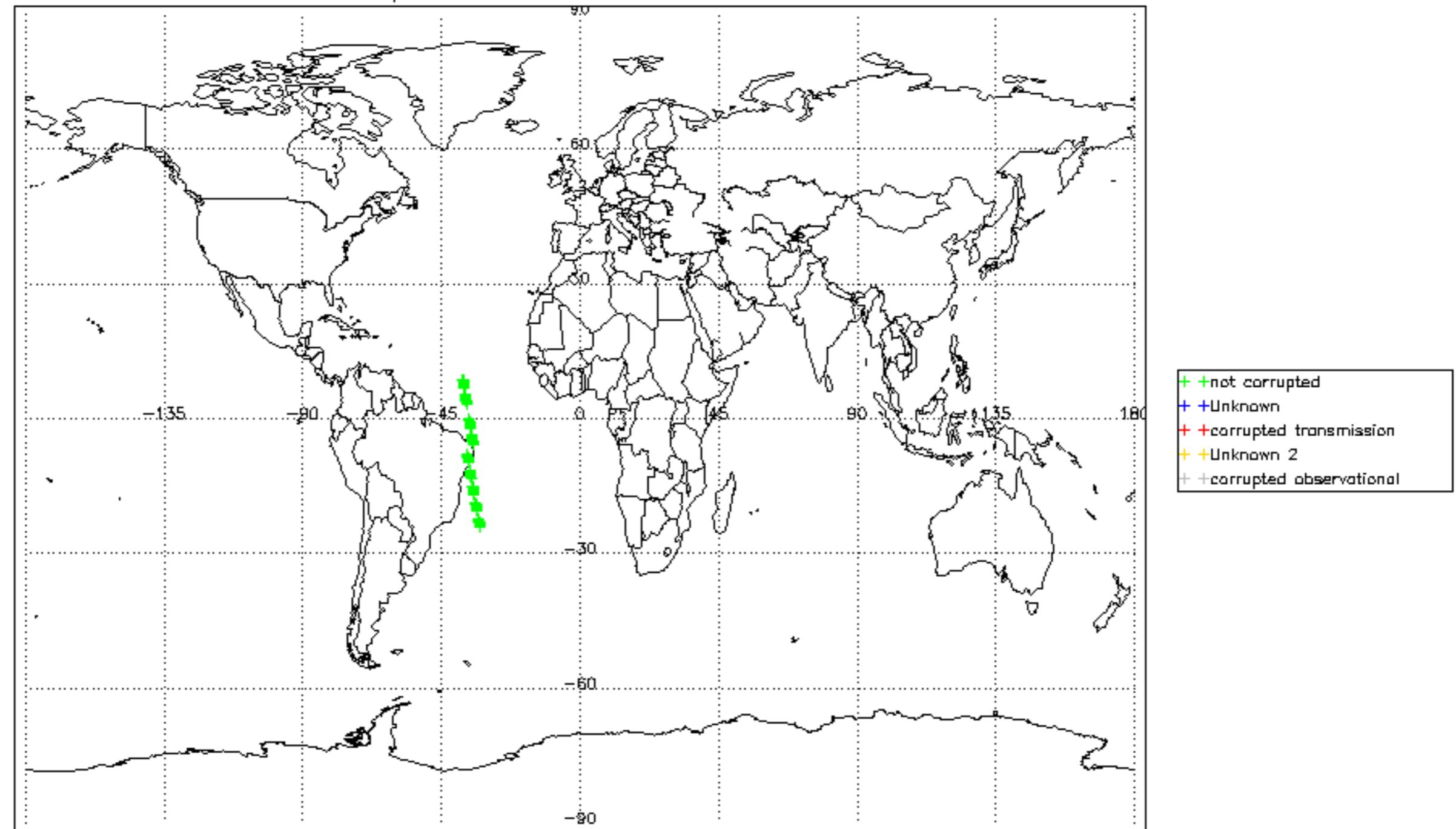


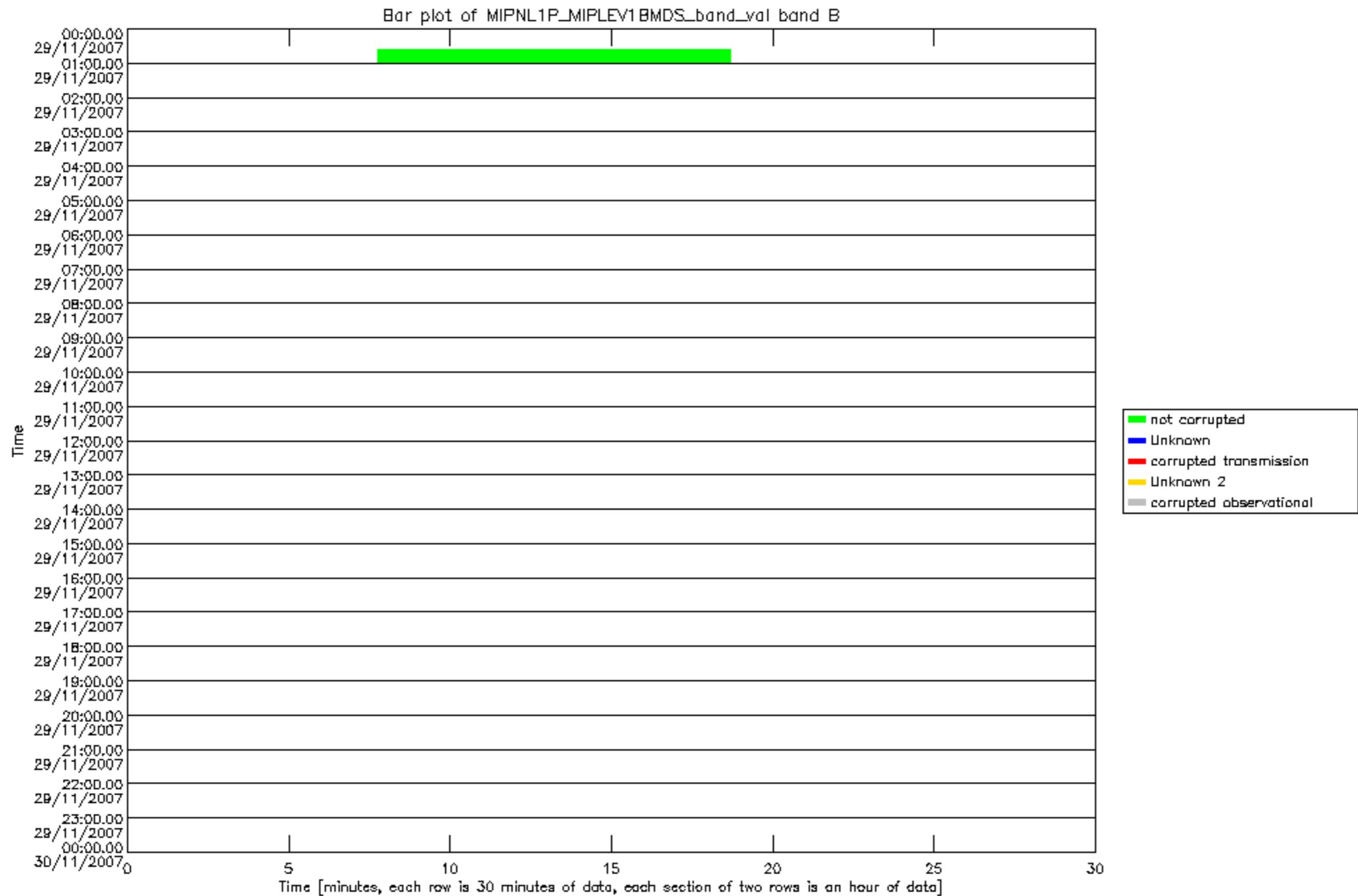
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A



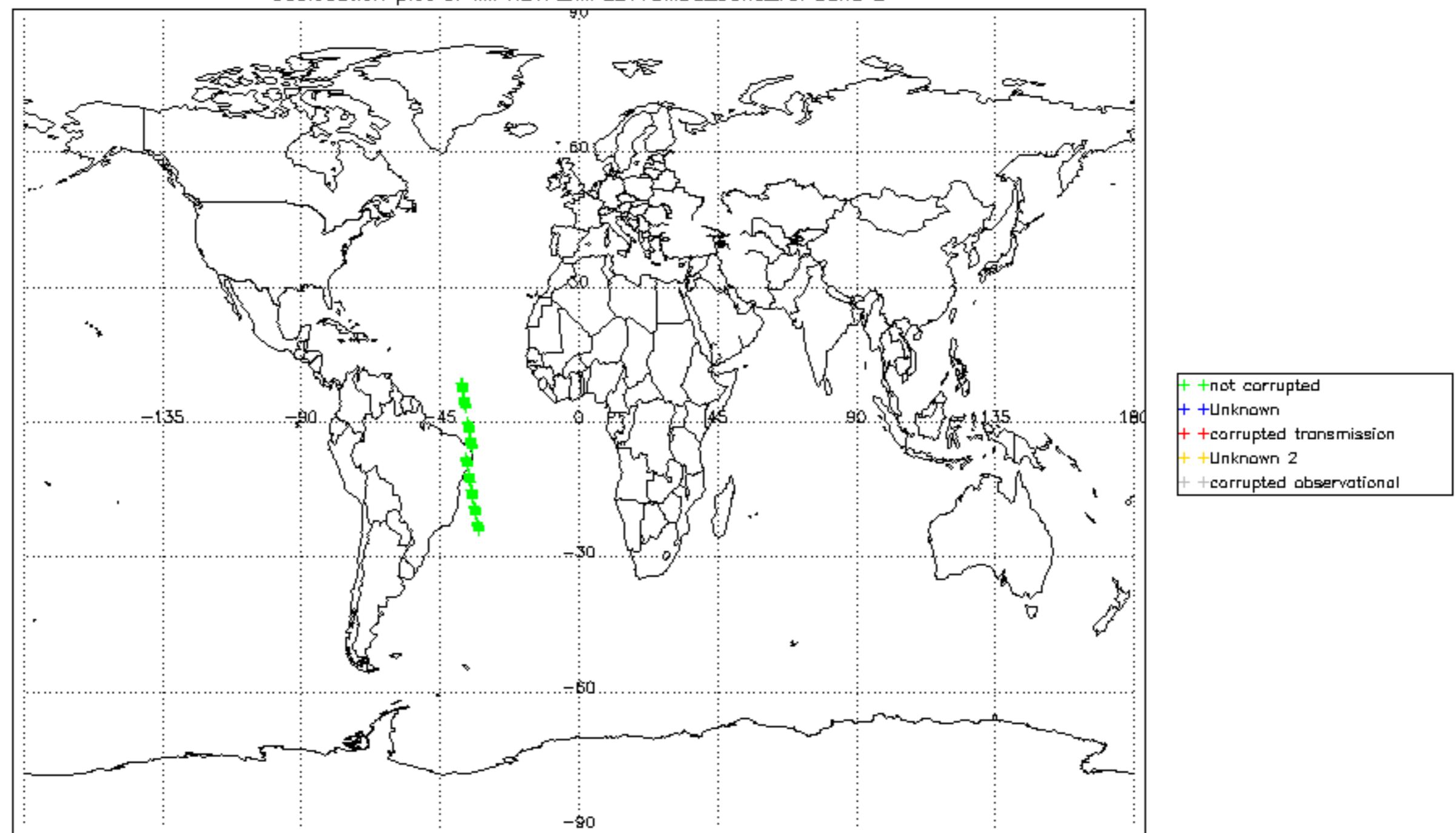


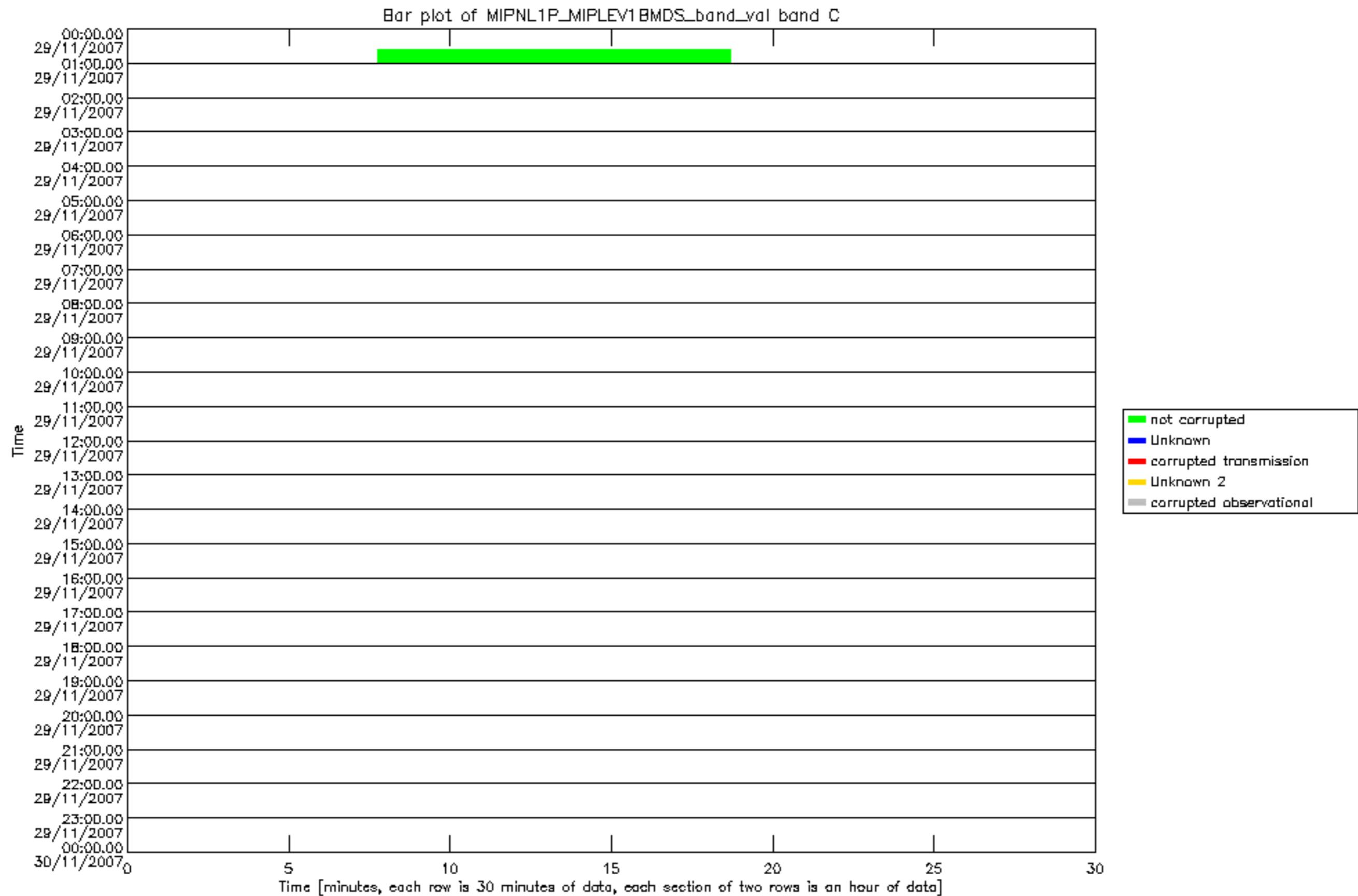
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



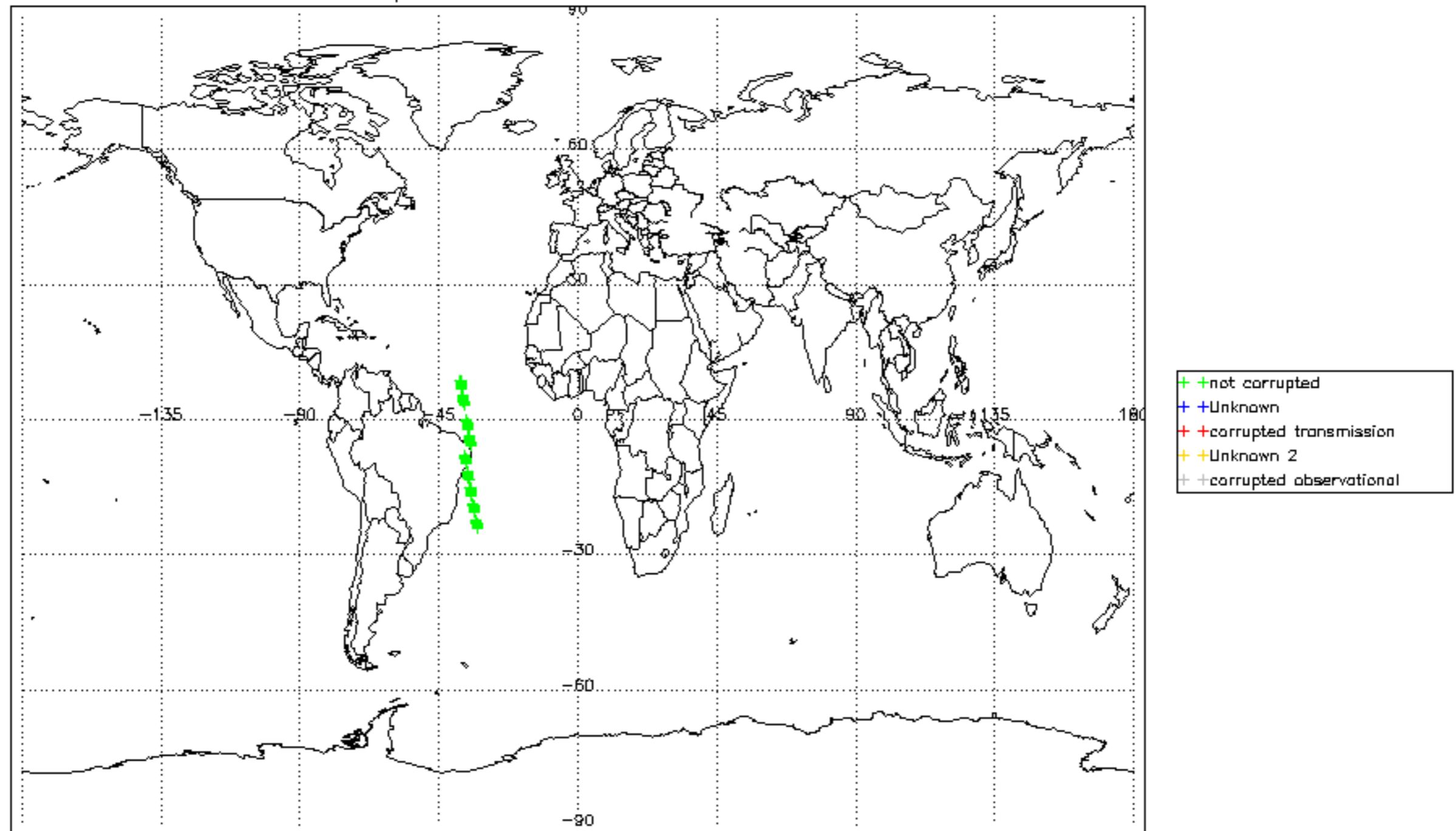


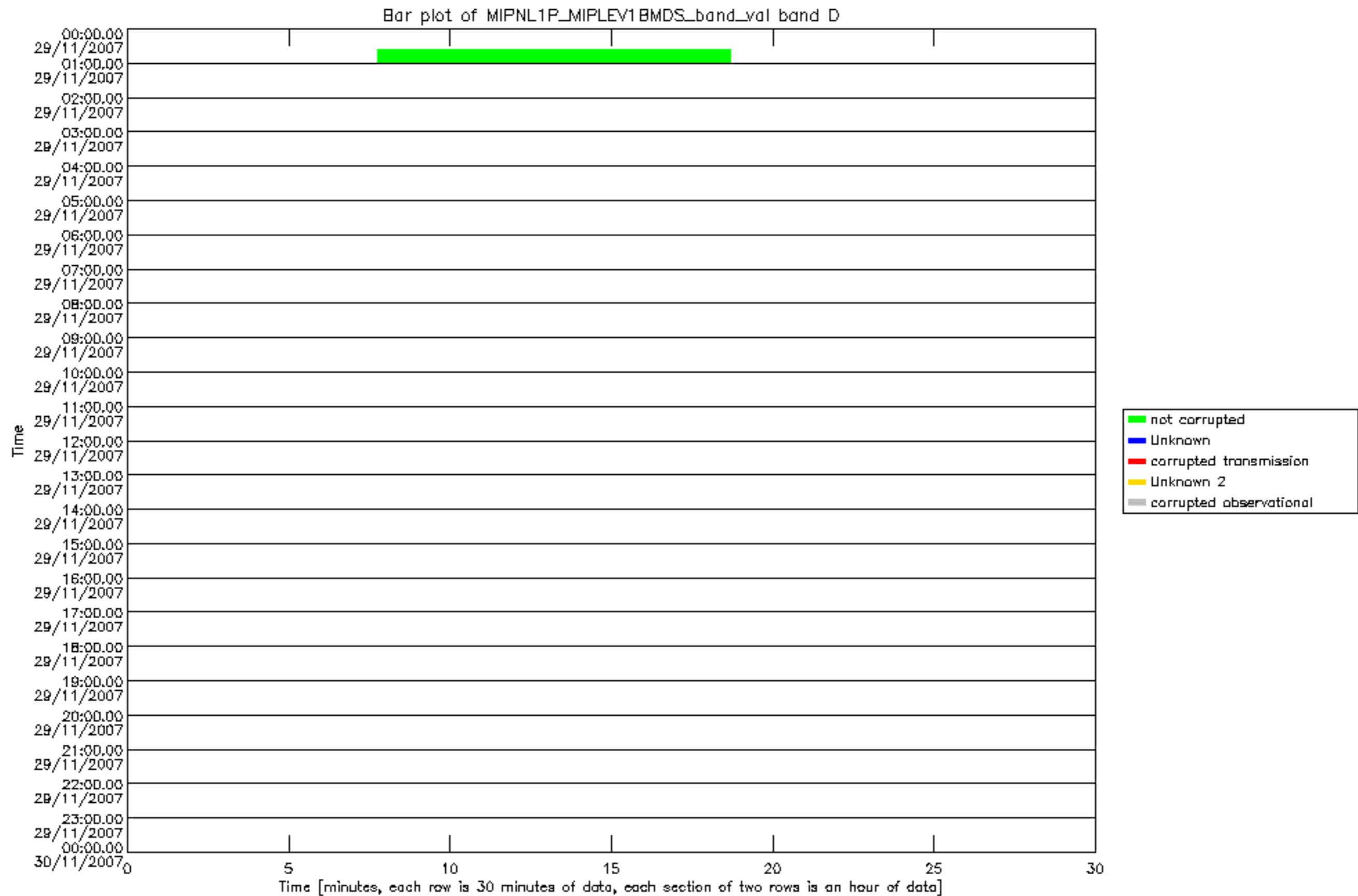
Geolocation plot of MIPNL1P_MIPLEV1_BMDS_band_val band B



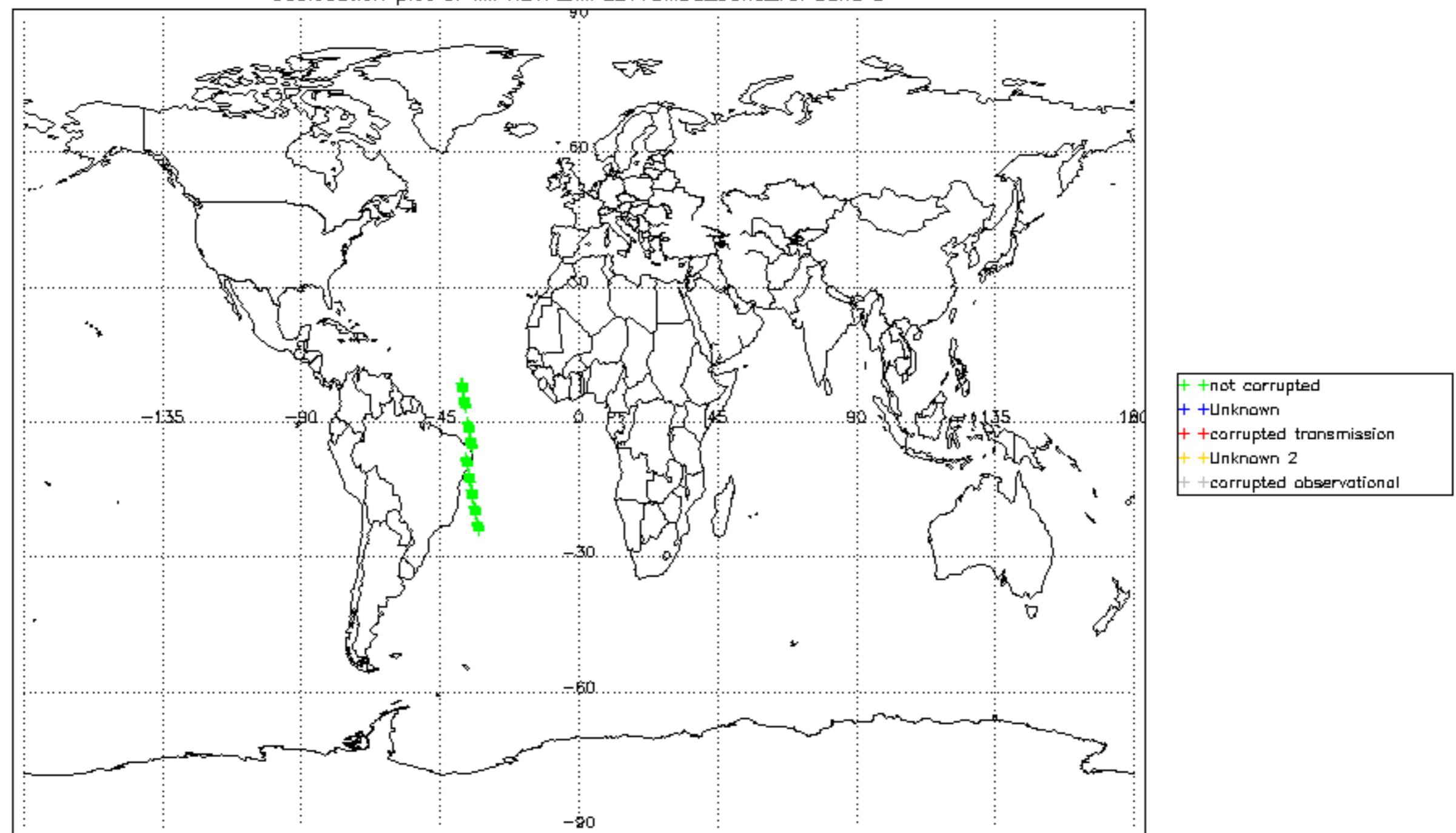


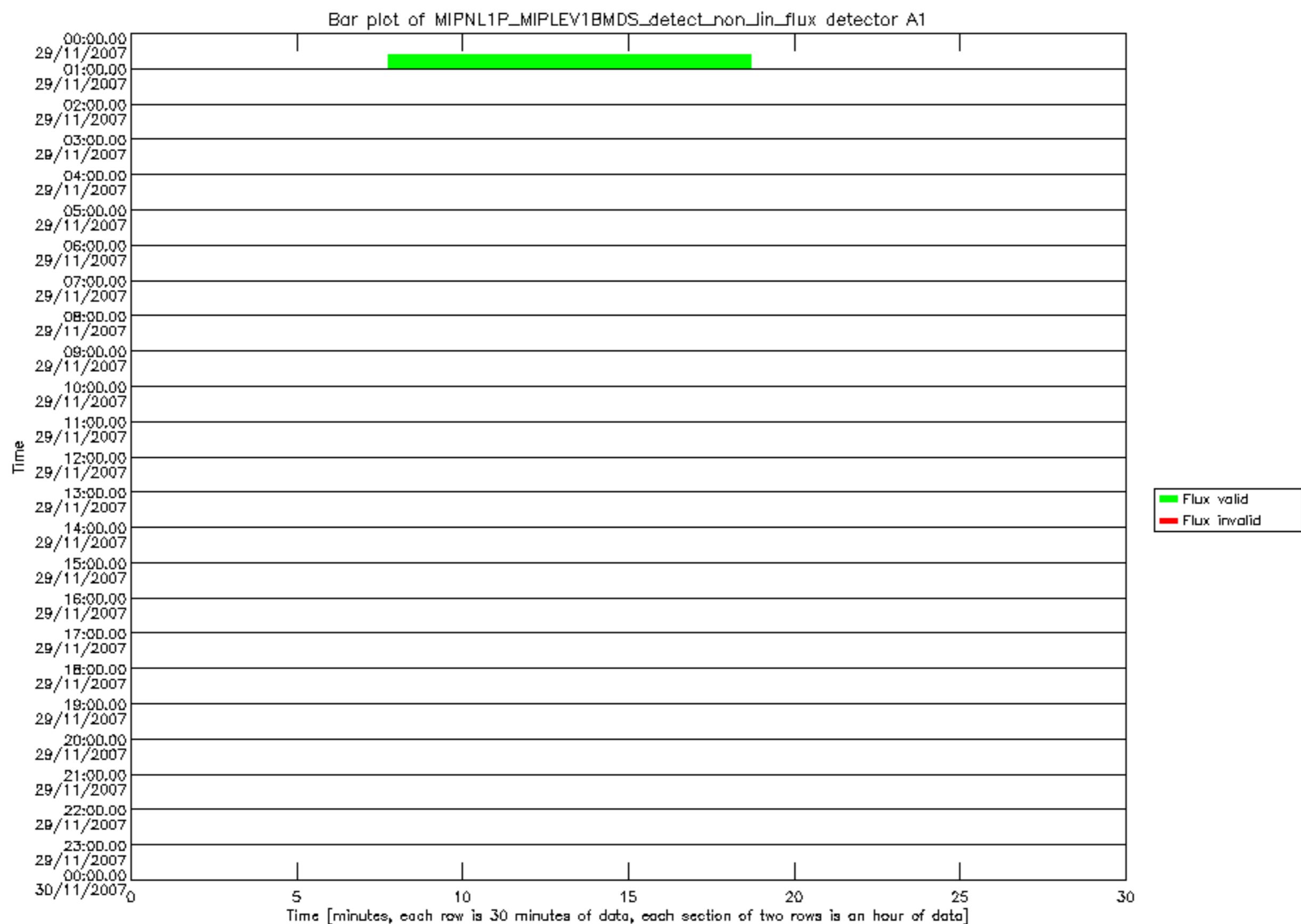
Geolocation plot of MIPNL1P_MIPLEV1_BMDS_band_val band C



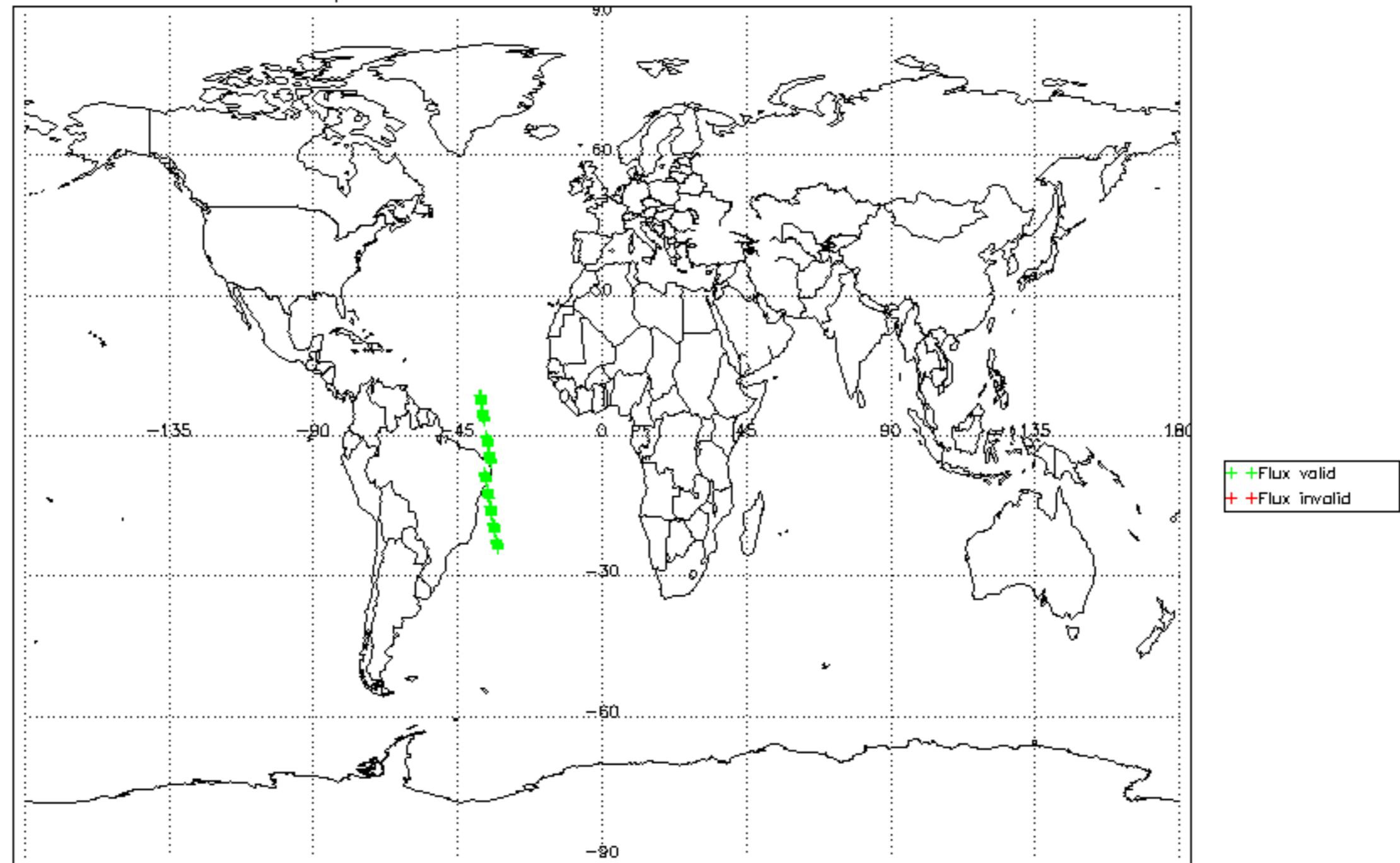


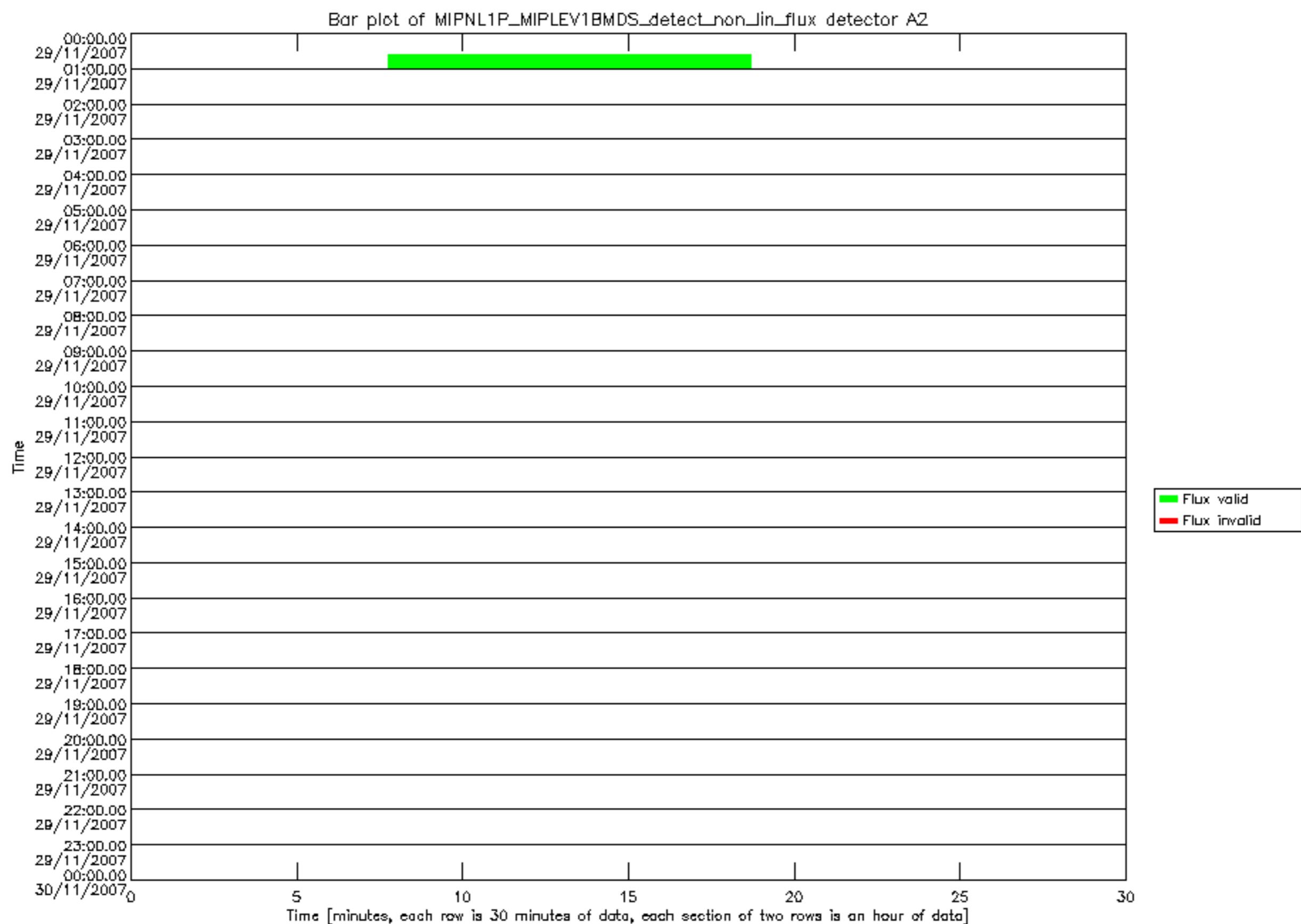
Geolocation plot of MIPNL1P_MIPLEV1_BMDS_band_val band D



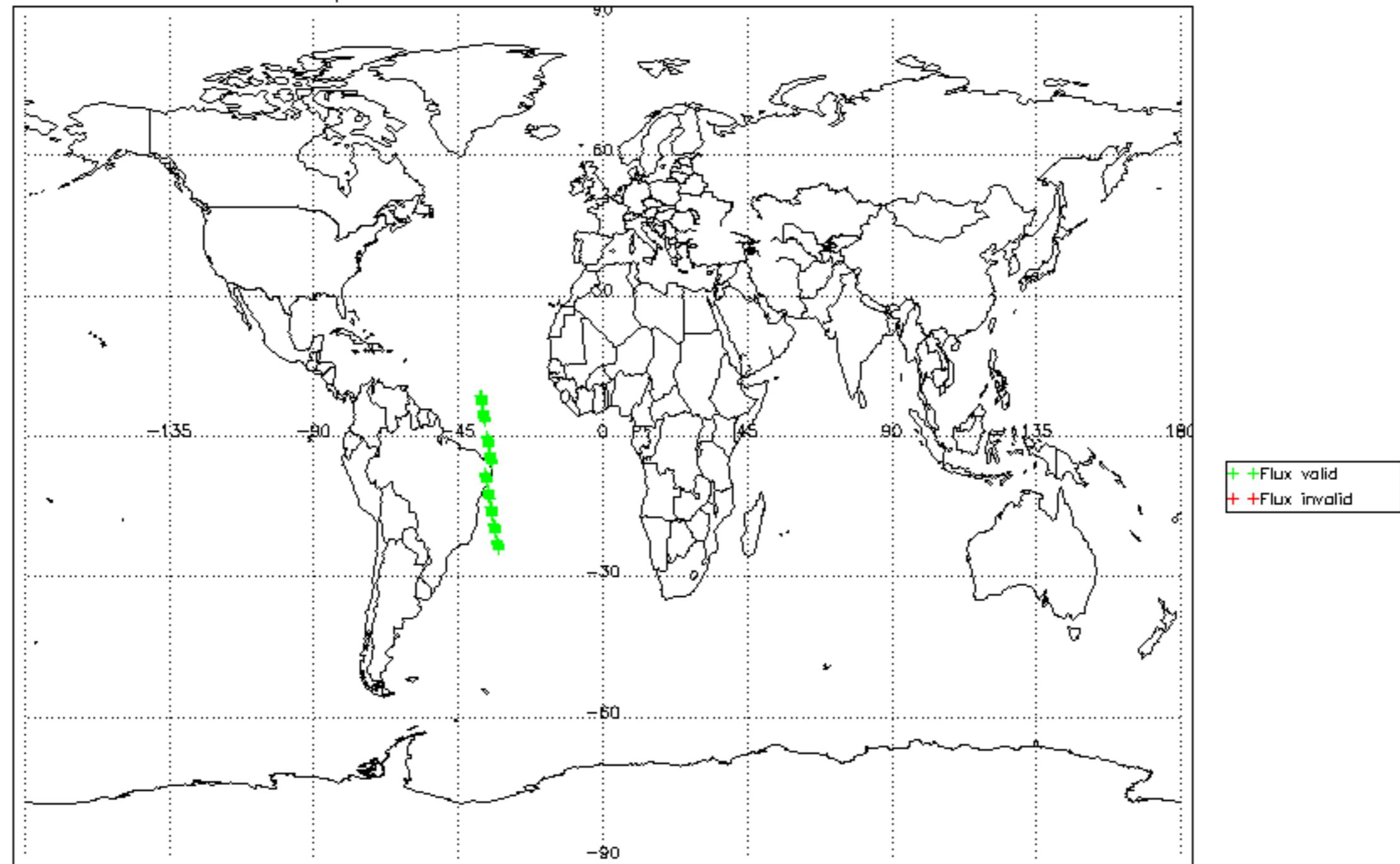


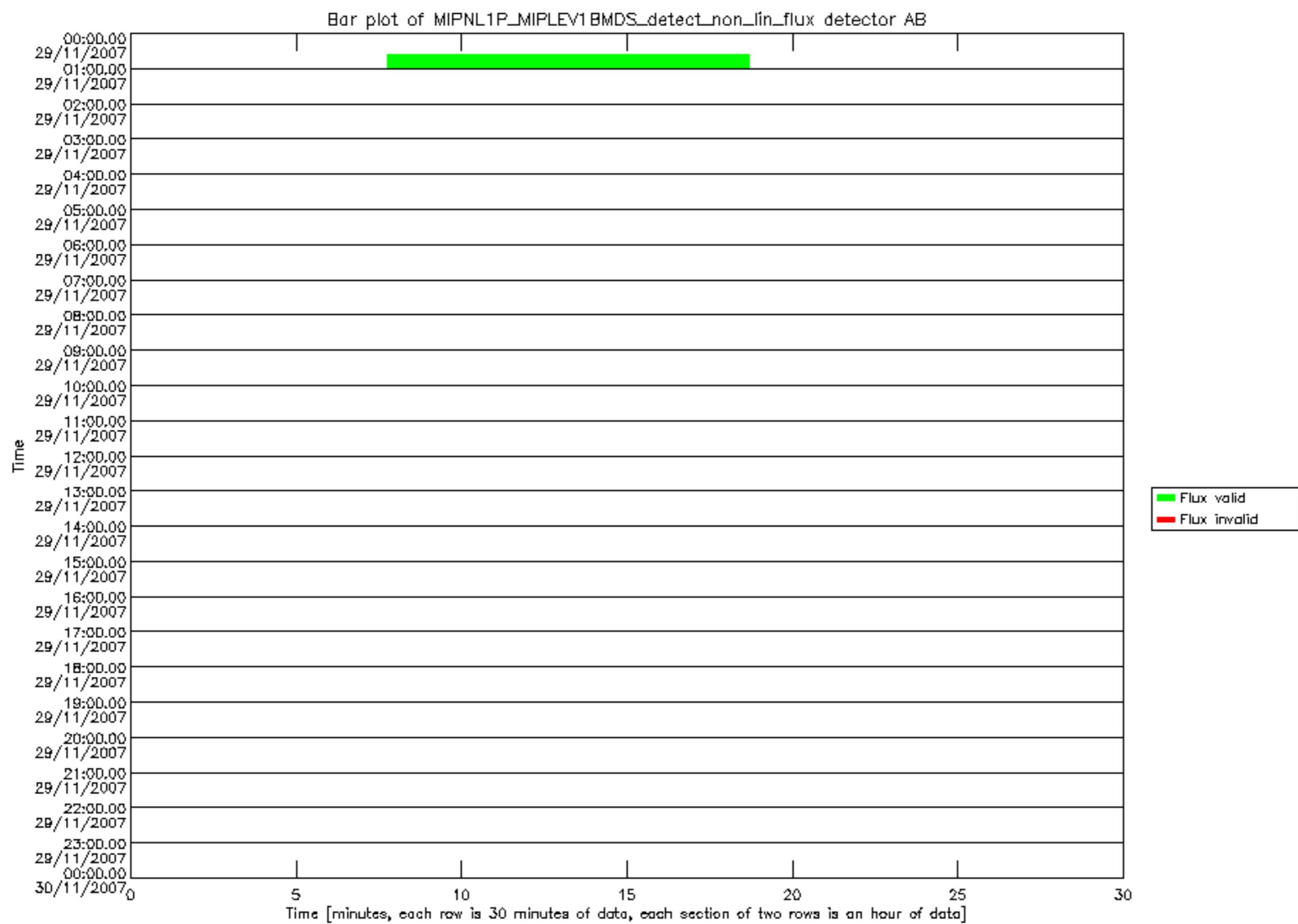
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A1



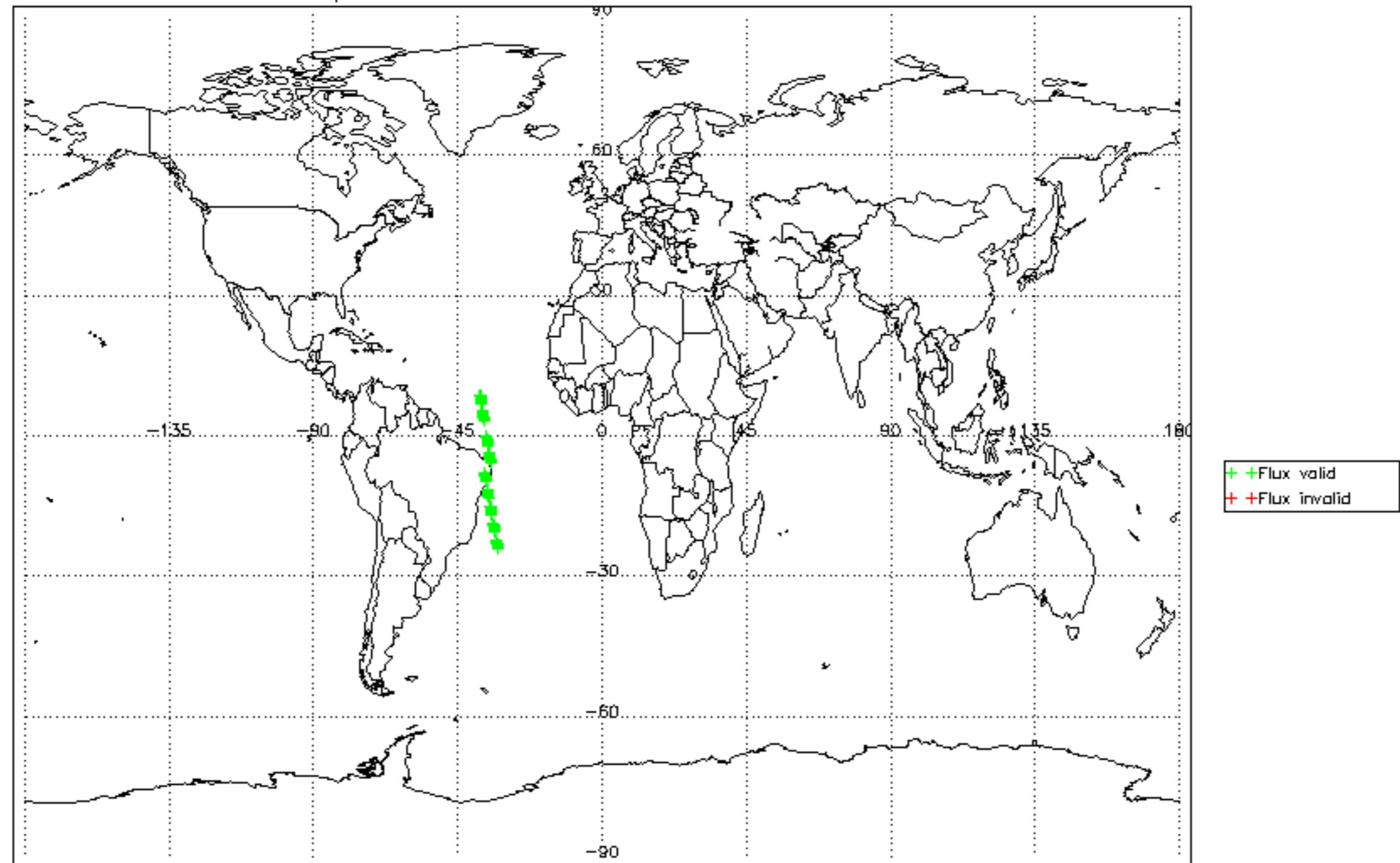


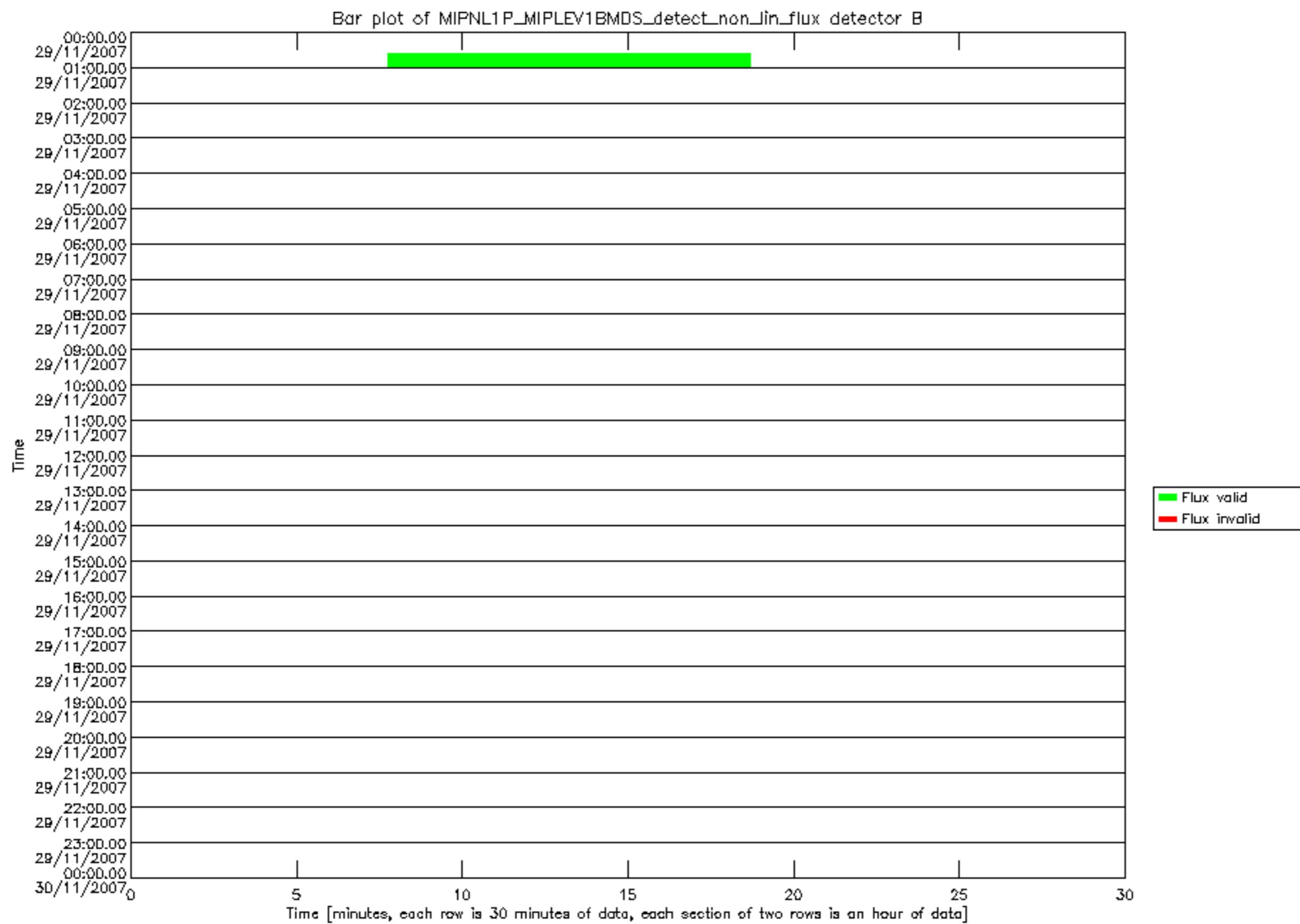
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A2



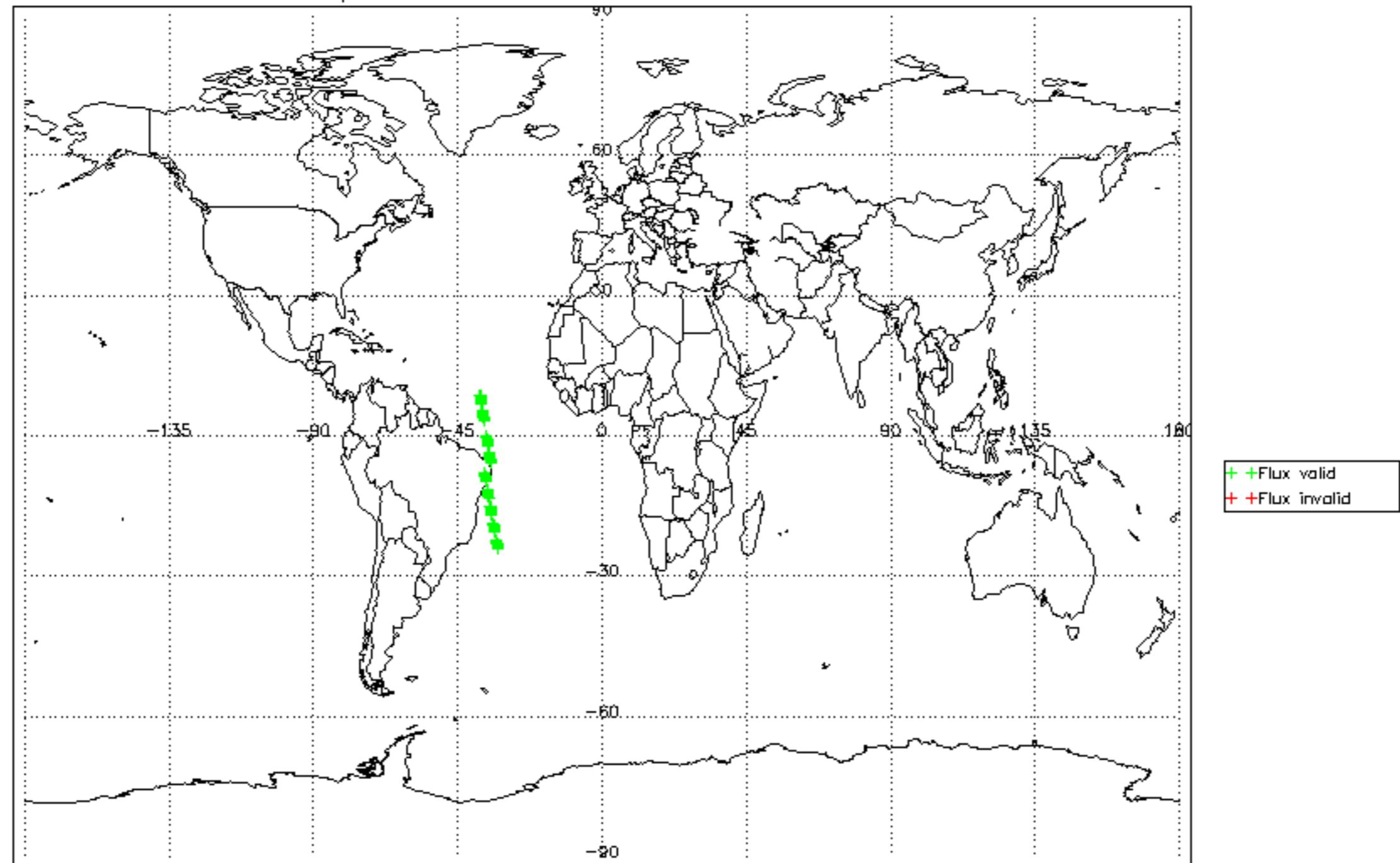


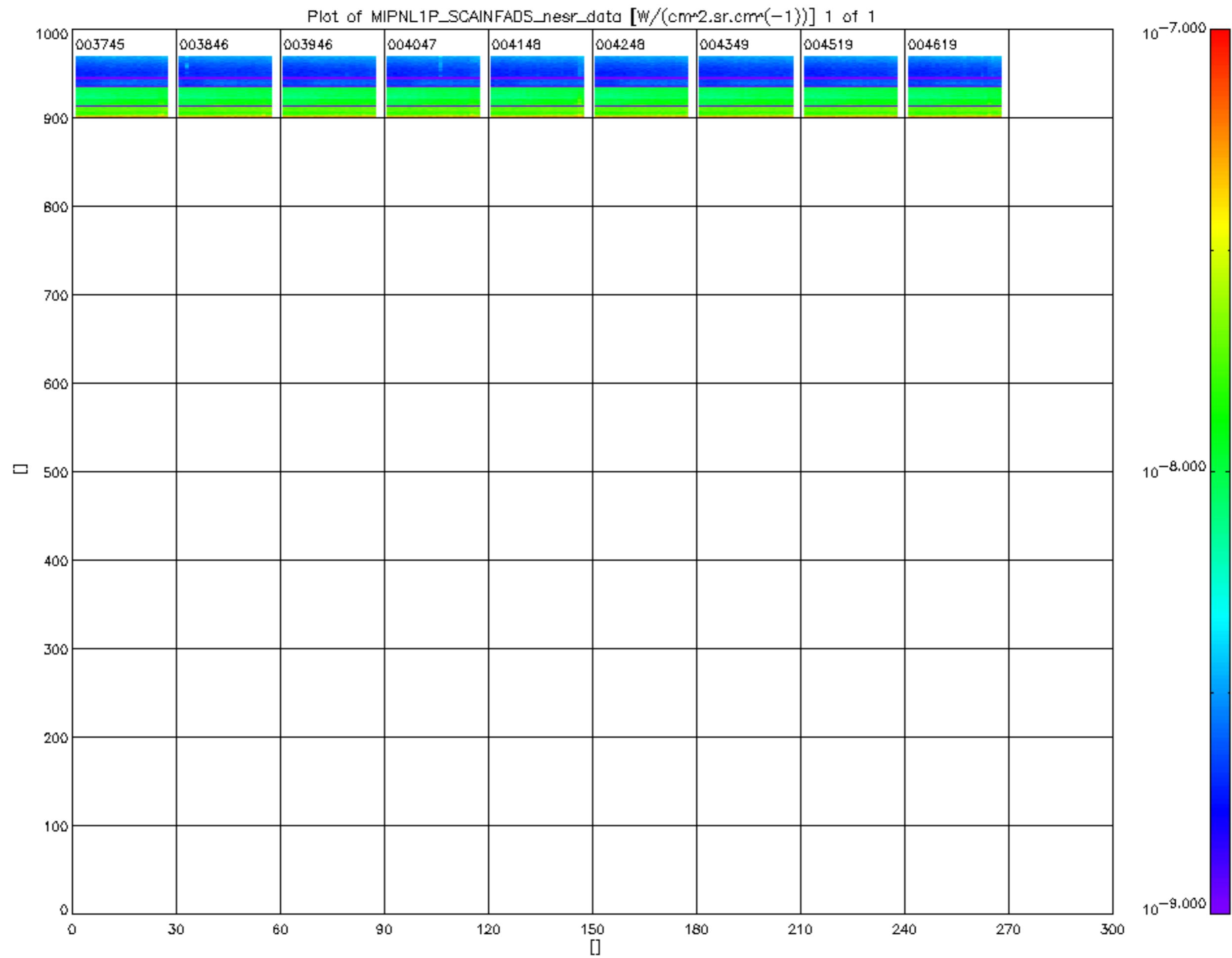
Geolocation plot of MIPNL1P_MIPLEV1_BMDS_detect_non_lin_flux detector AB



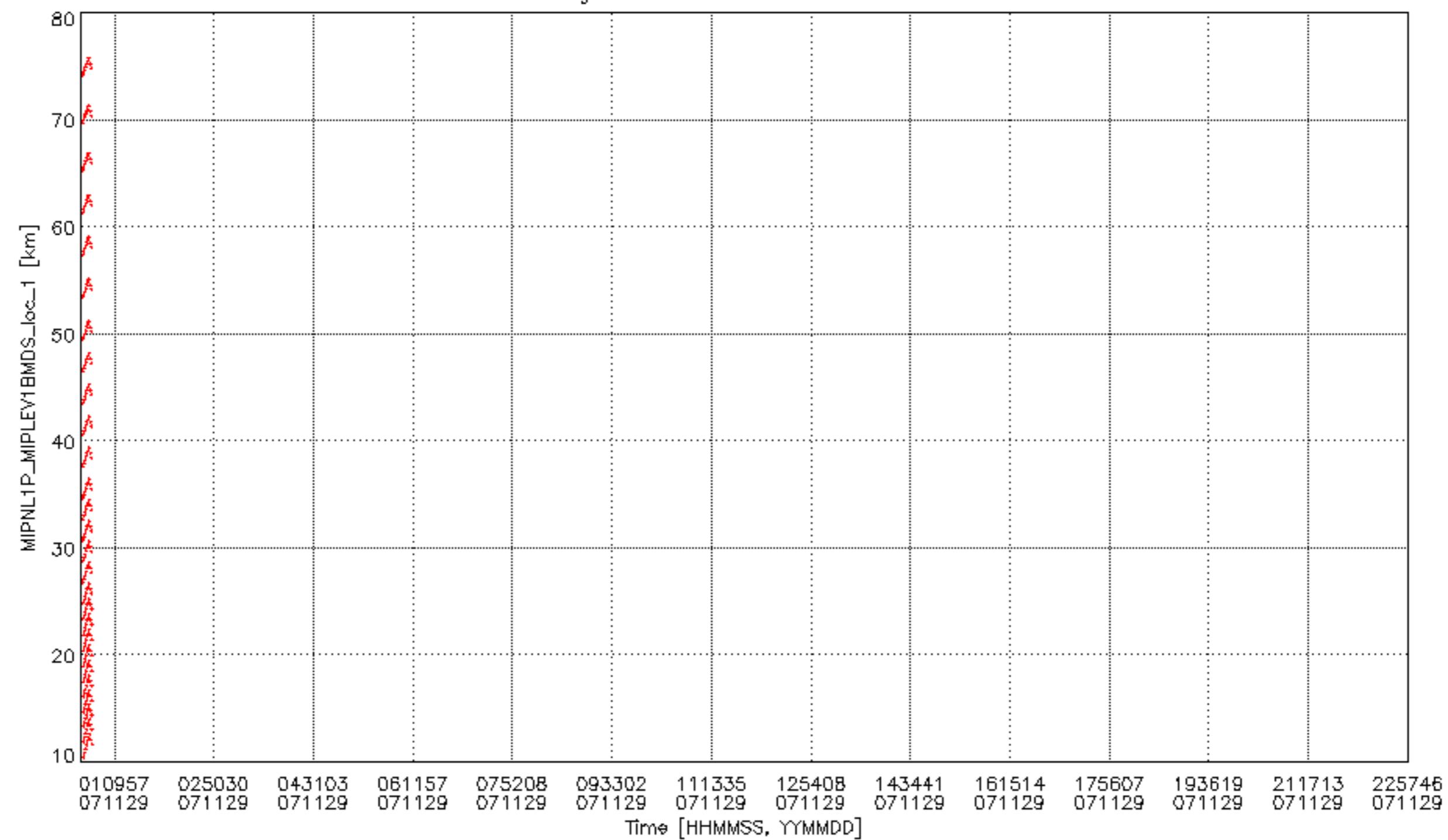


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B





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).

