

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	02AUG2006 10:29:17
Data source version	MIPAS/4.65-P
Processing scope for products	30JUN2006 00:00:00 to 01JUL2006 00:00:00
Start time of first product within scope	30JUN2006 01:14:25
Stop time of last product within scope	30JUN2006 01:35:46
Total number of level 1 products	2
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.

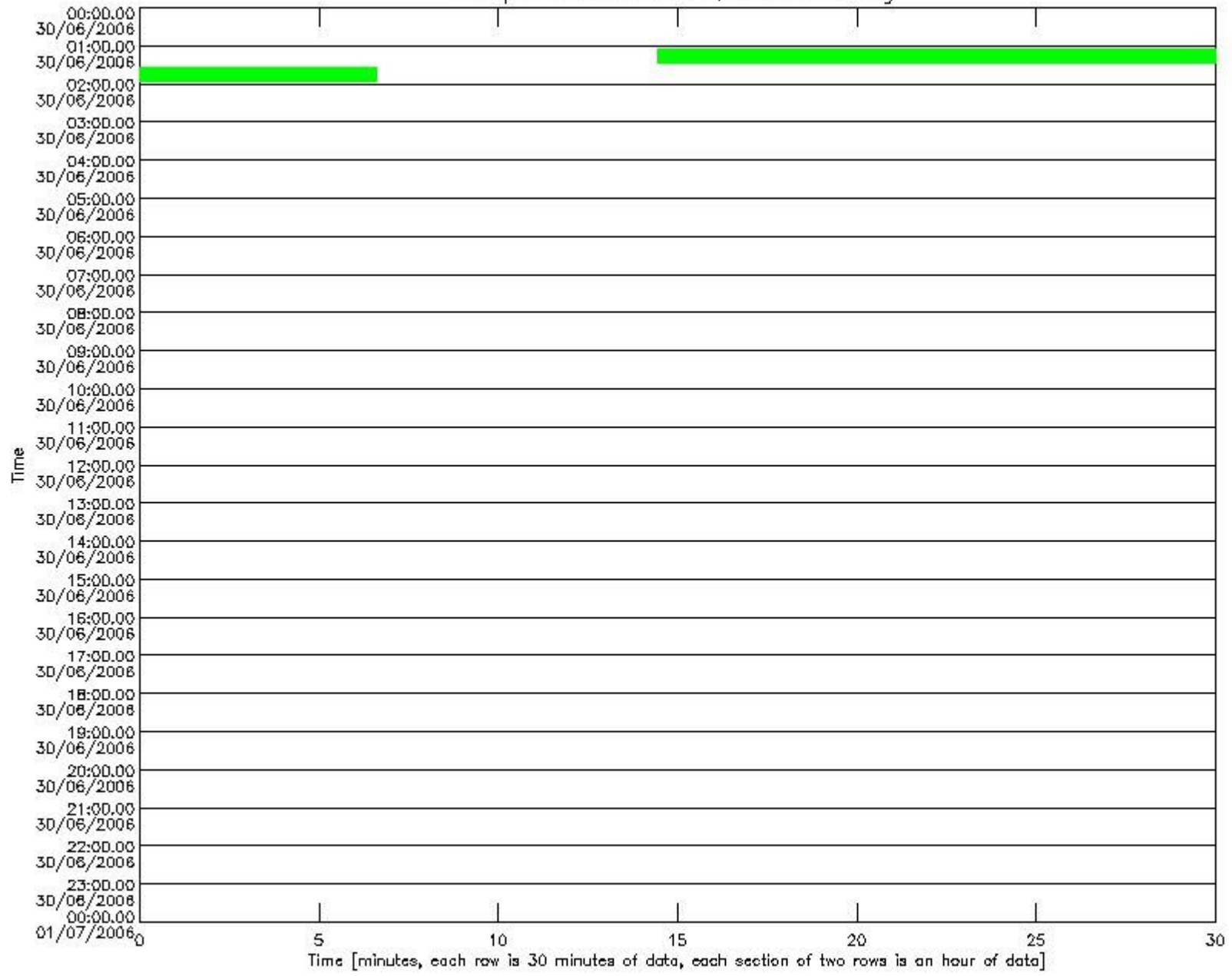
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)
0	MIP_NL__1PPDPA20060630_011425_000007262049_00045_22644_0190.N1	30JUN2006 01:14:25	30JUN2006 01:26:30	0	0/0
1	MIP_NL__1PPDPA20060630_012721_000005062049_00046_22645_0193.N1	30JUN2006 01:27:21	30JUN2006 01:35:46	0	0/0

1.2 Product Quality Indicators

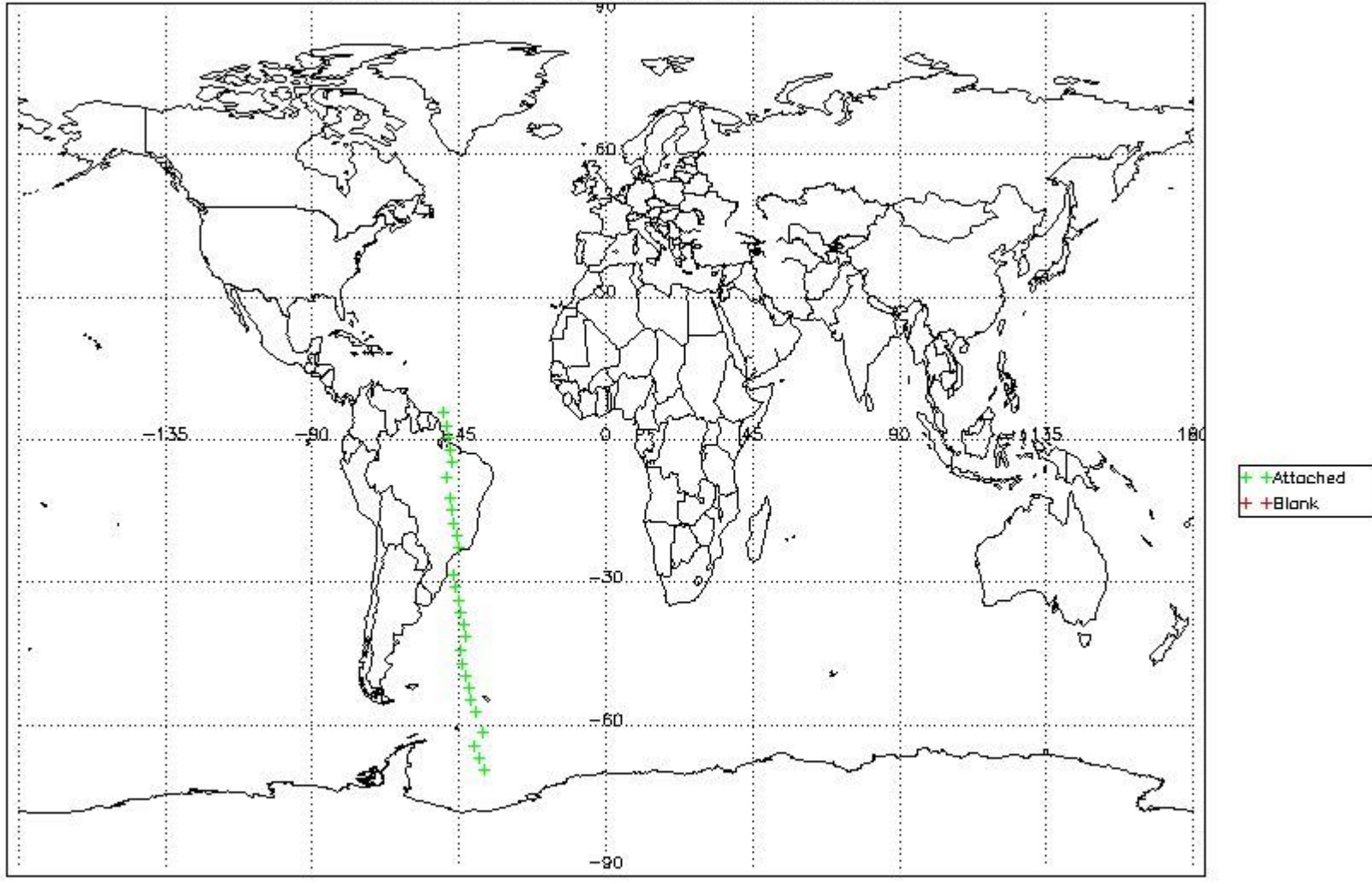
This report contains an analysis on product quality related parameters within the MIP_NL__1P product.

1.2.1 Trends and geolocation of Summary Quality ADS

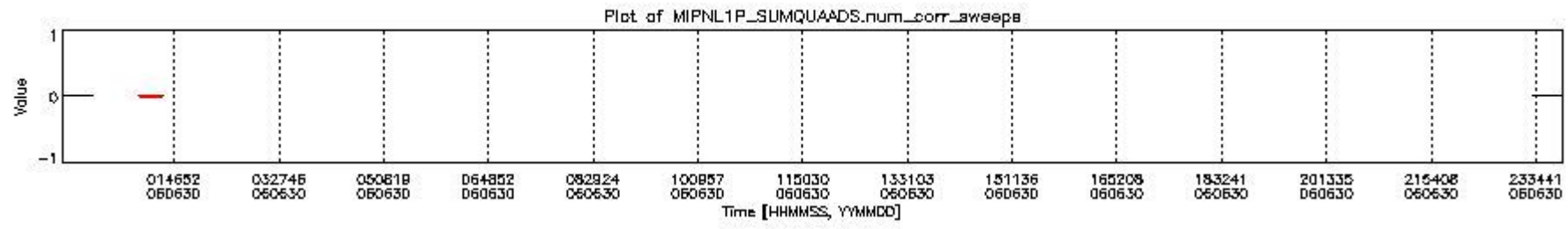
Bar plot of MIPNL1P_SUMQUAADS.attach_flag



Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag

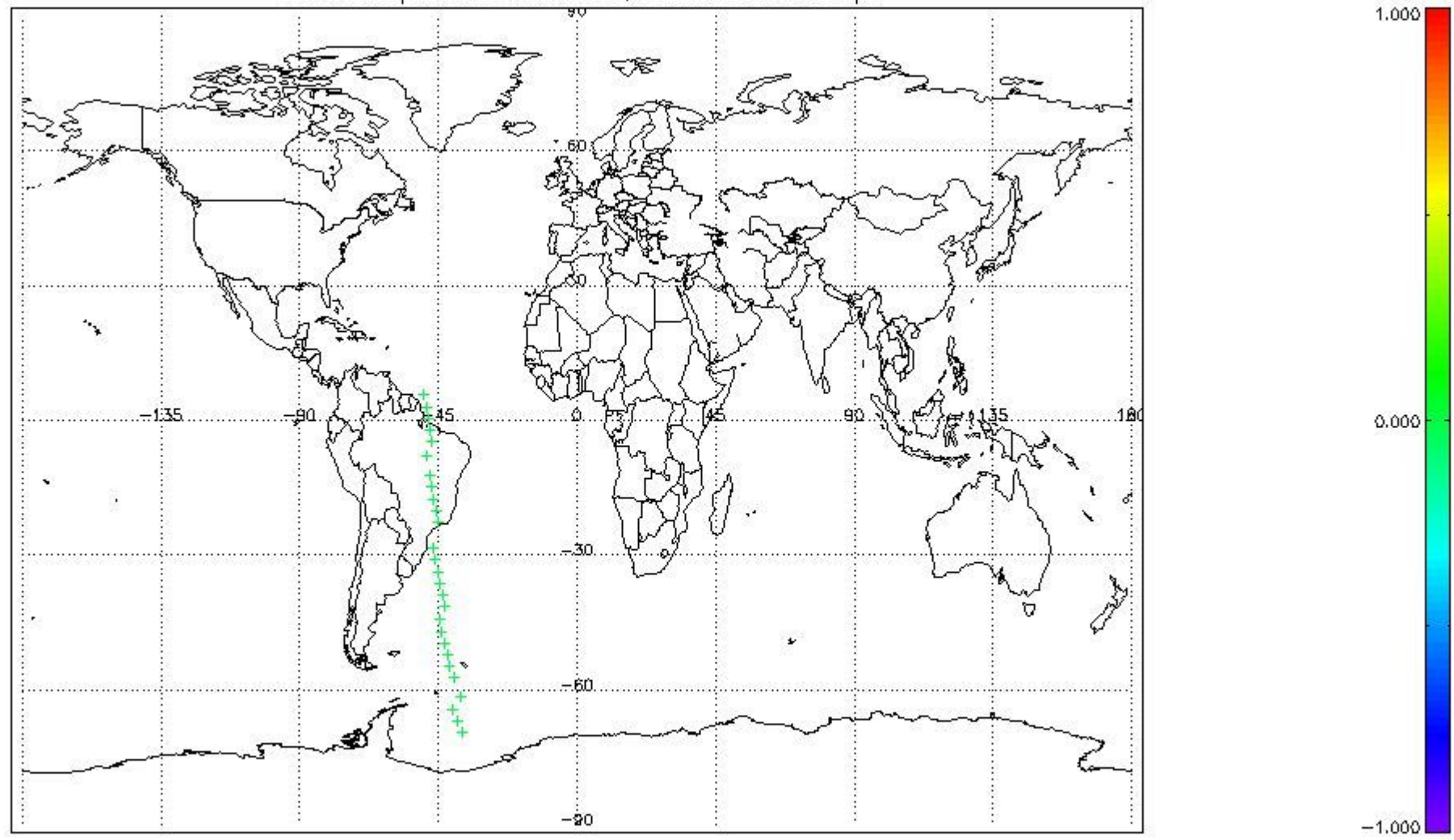


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_1.PNG

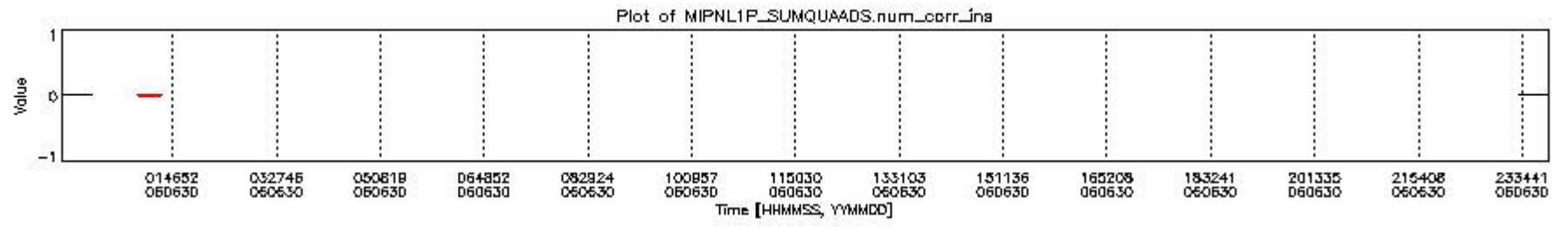


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_2.PNG

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_sweeps

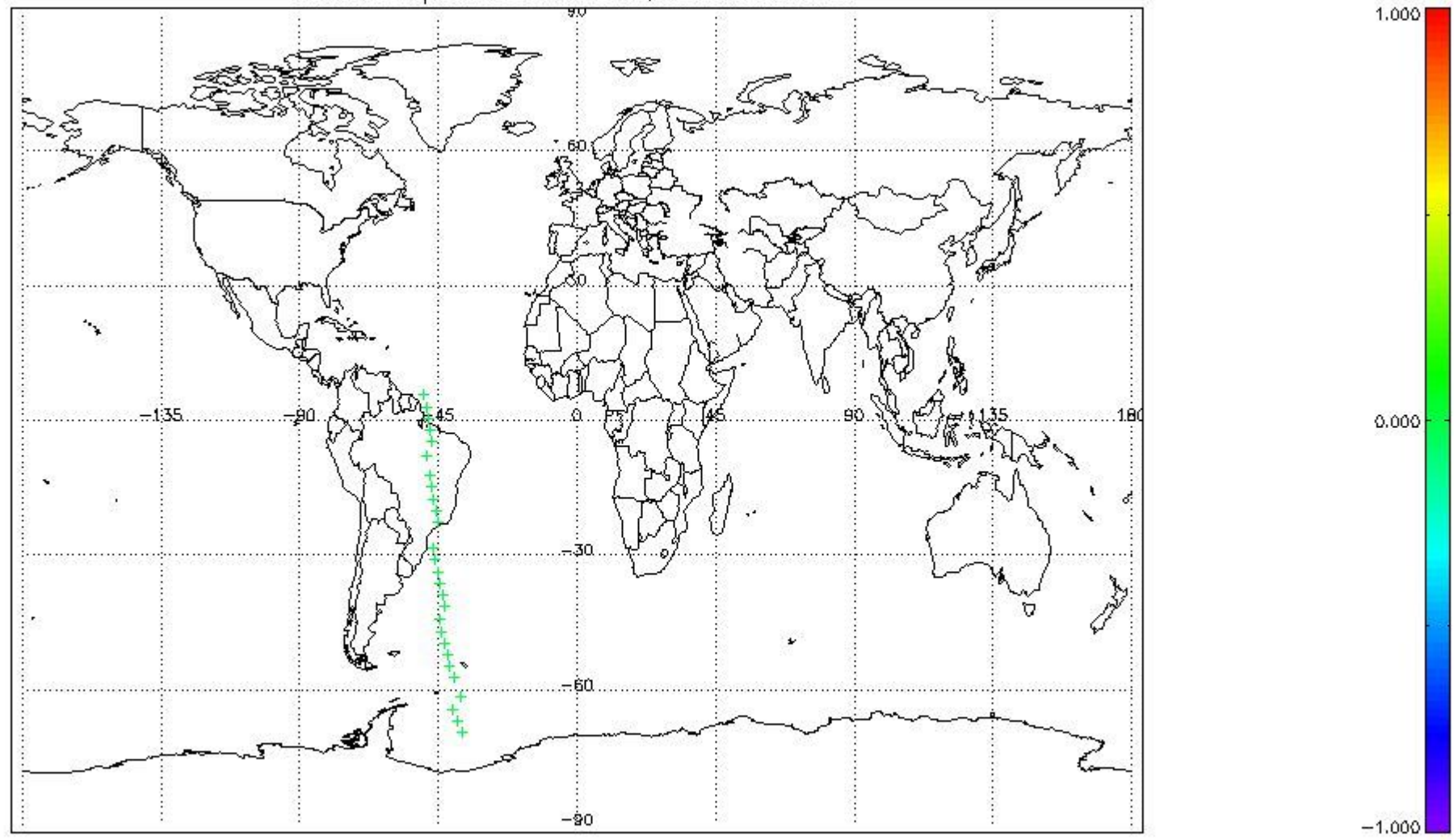


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_3.PNG

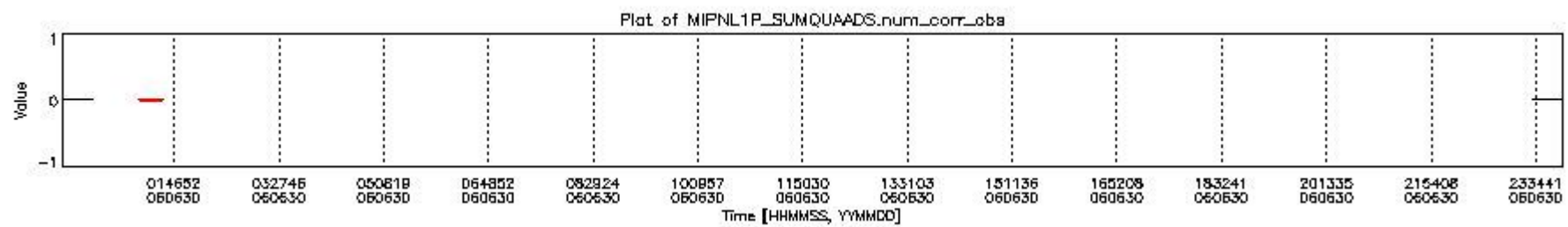


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_4.PNG

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins

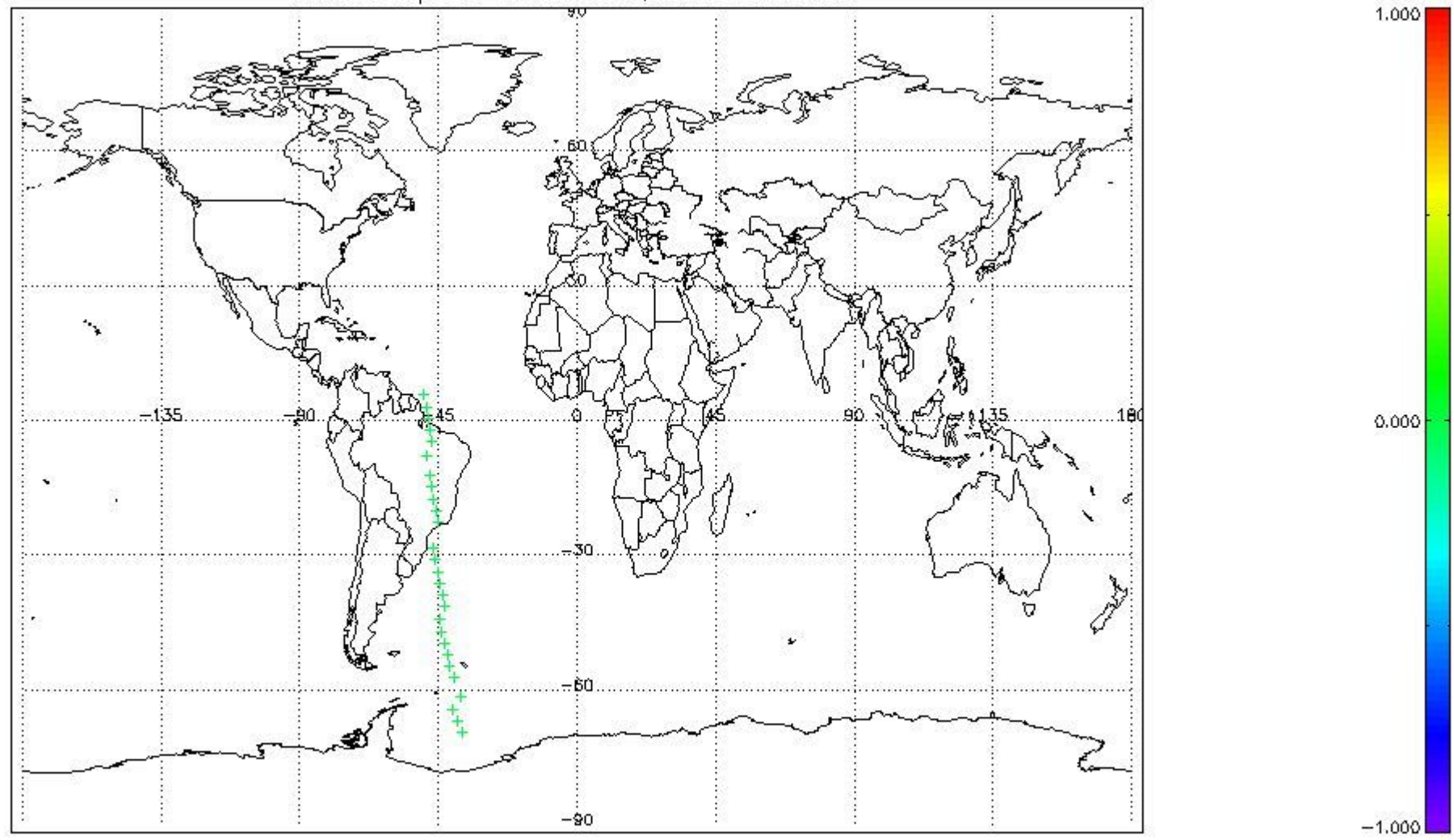


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_5.PNG

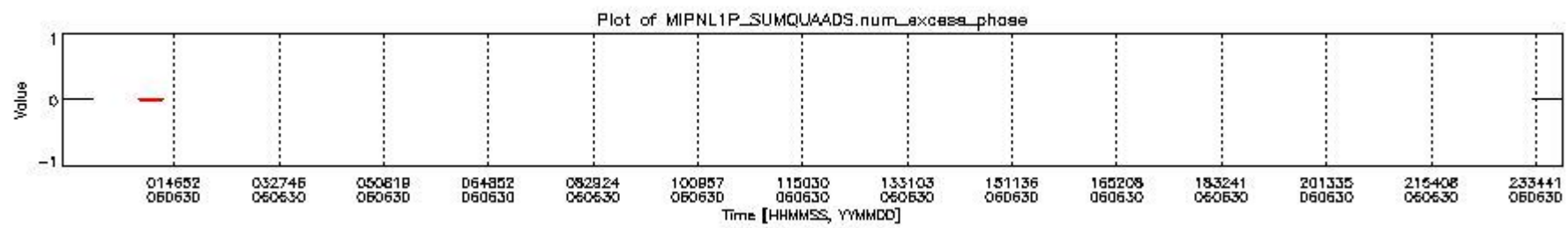


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_6.PNG

Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs

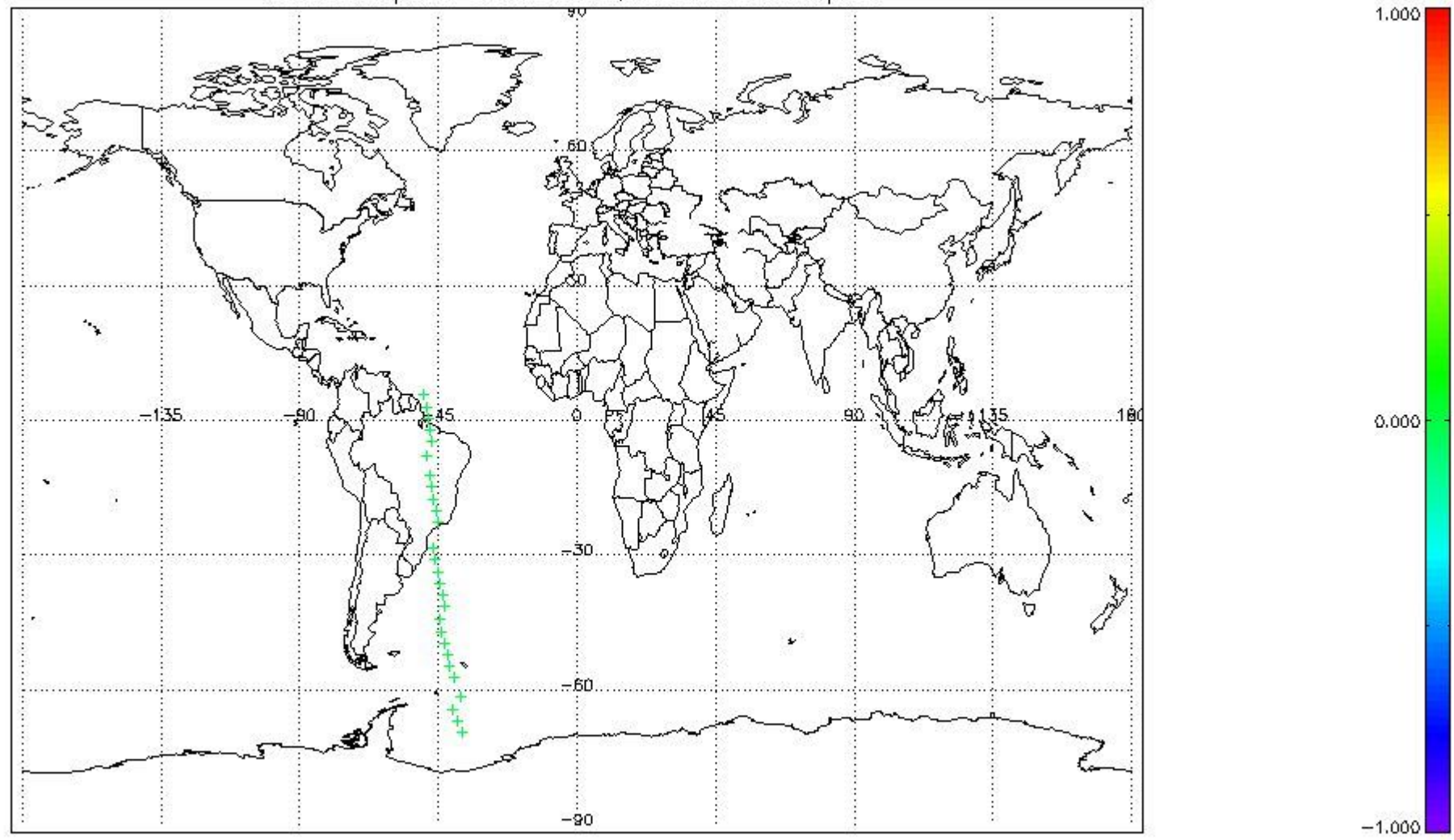


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_7.PNG

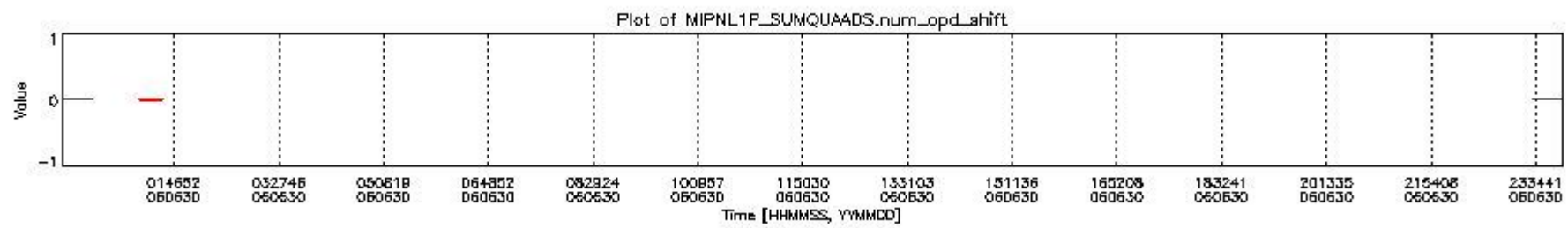


mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_8.PNG

Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase

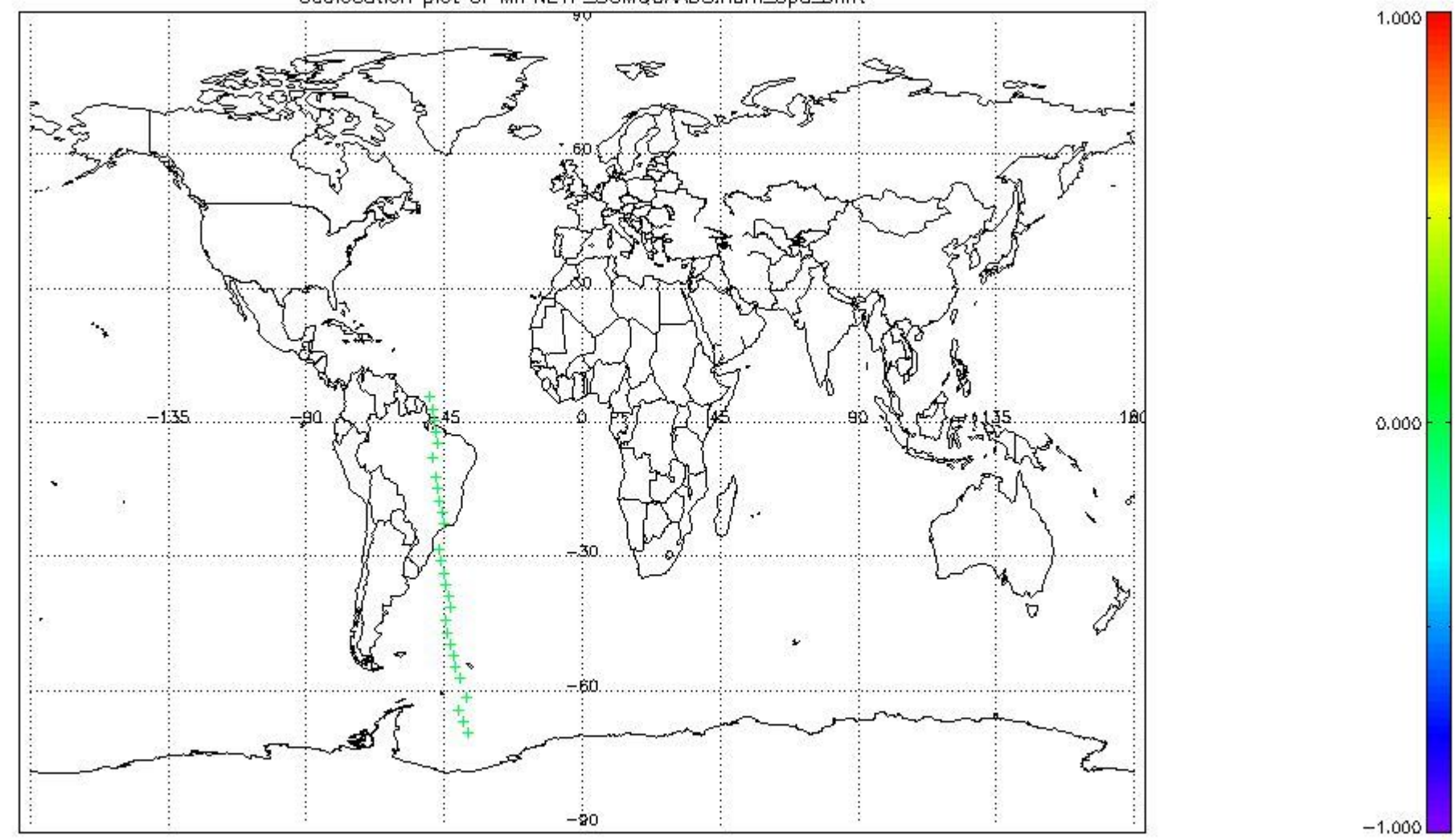


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_9.PNG

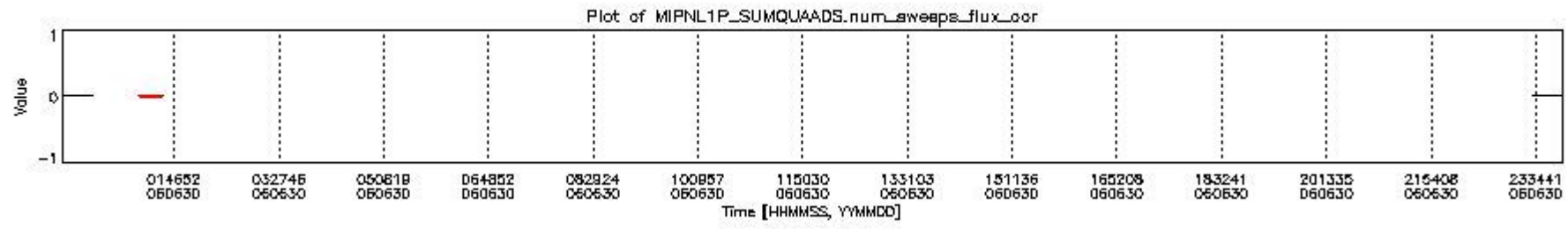


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_10.PNG

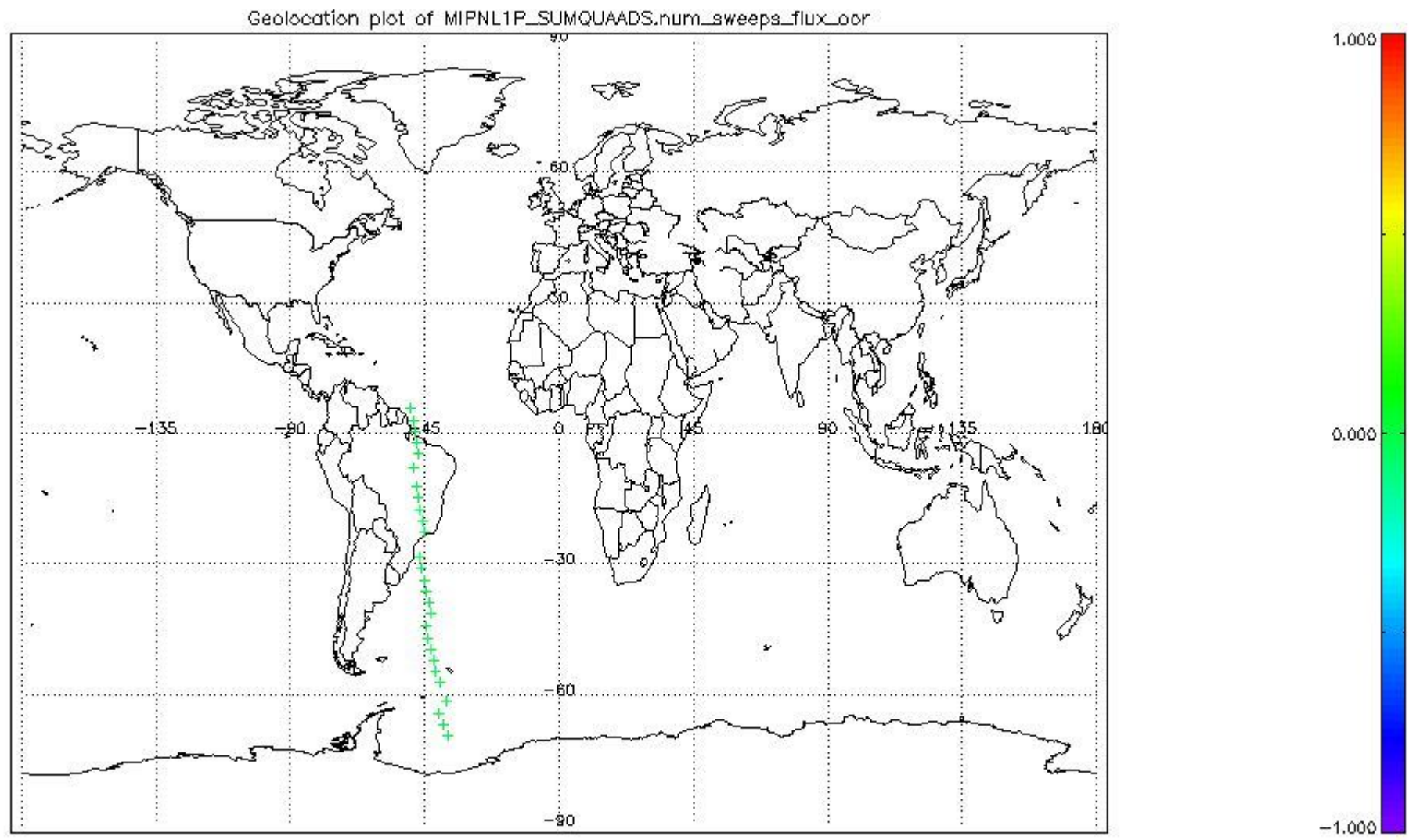
Geolocation plot of MIPNL1P_SUMQUAADS.num_0pd_shift



mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_11.PNG



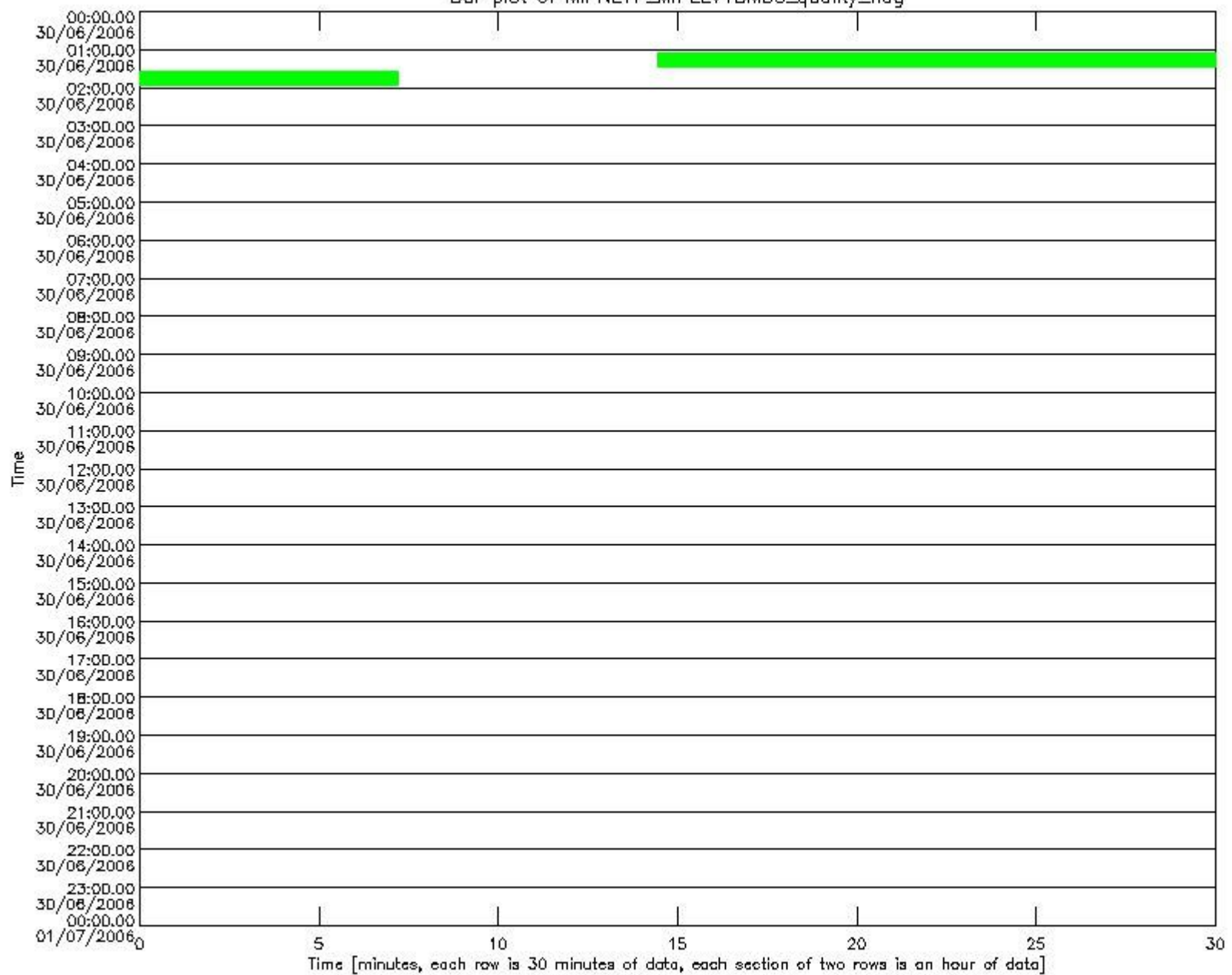
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_12.PNG



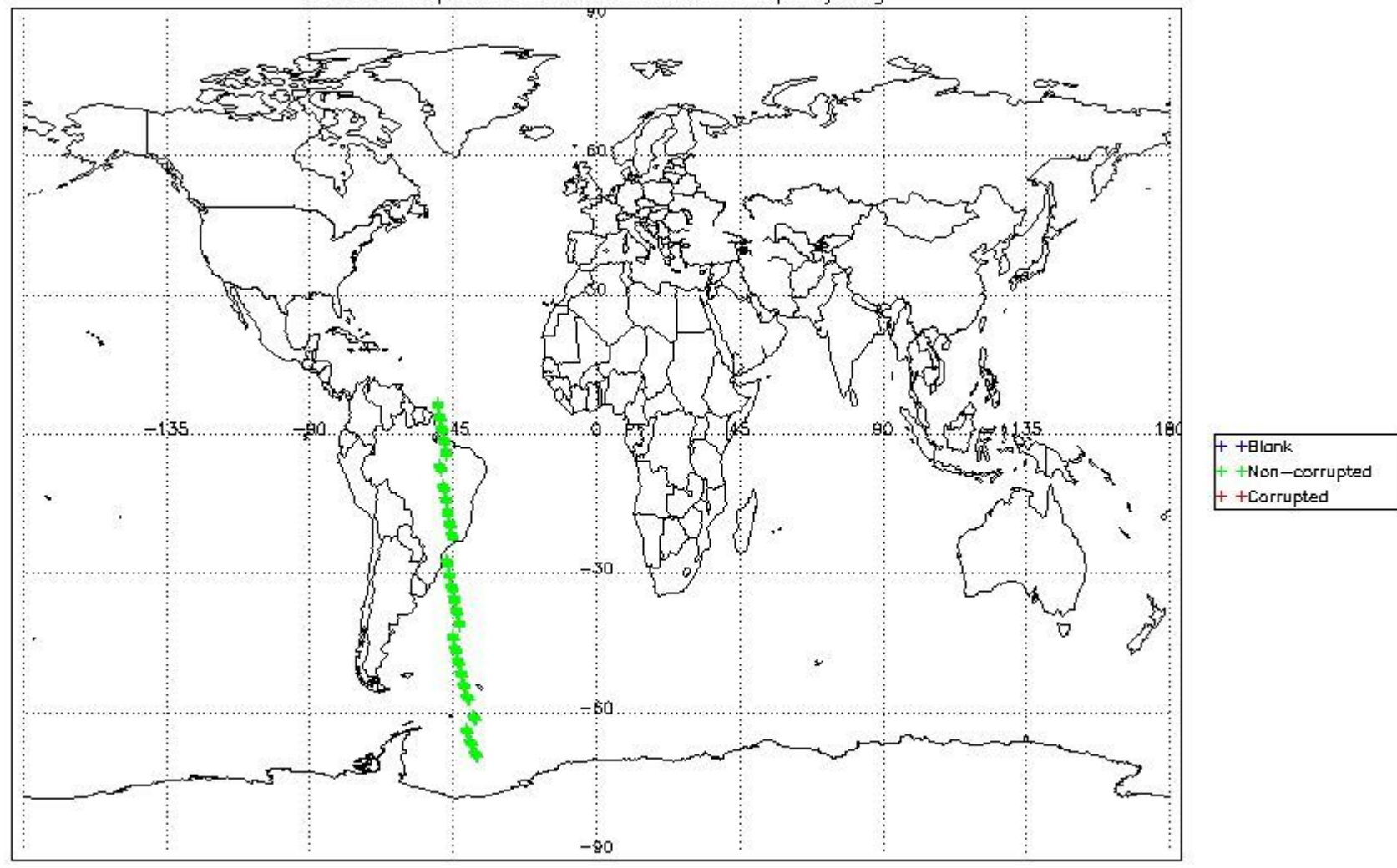
mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_13.PNG

1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

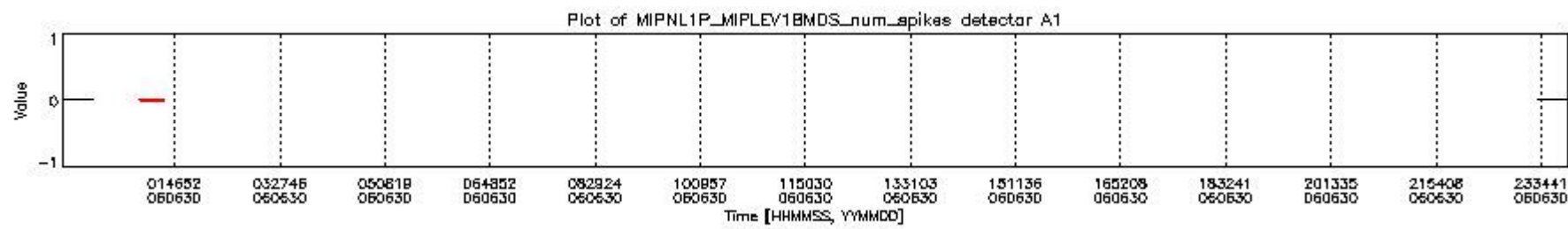
Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag



Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag

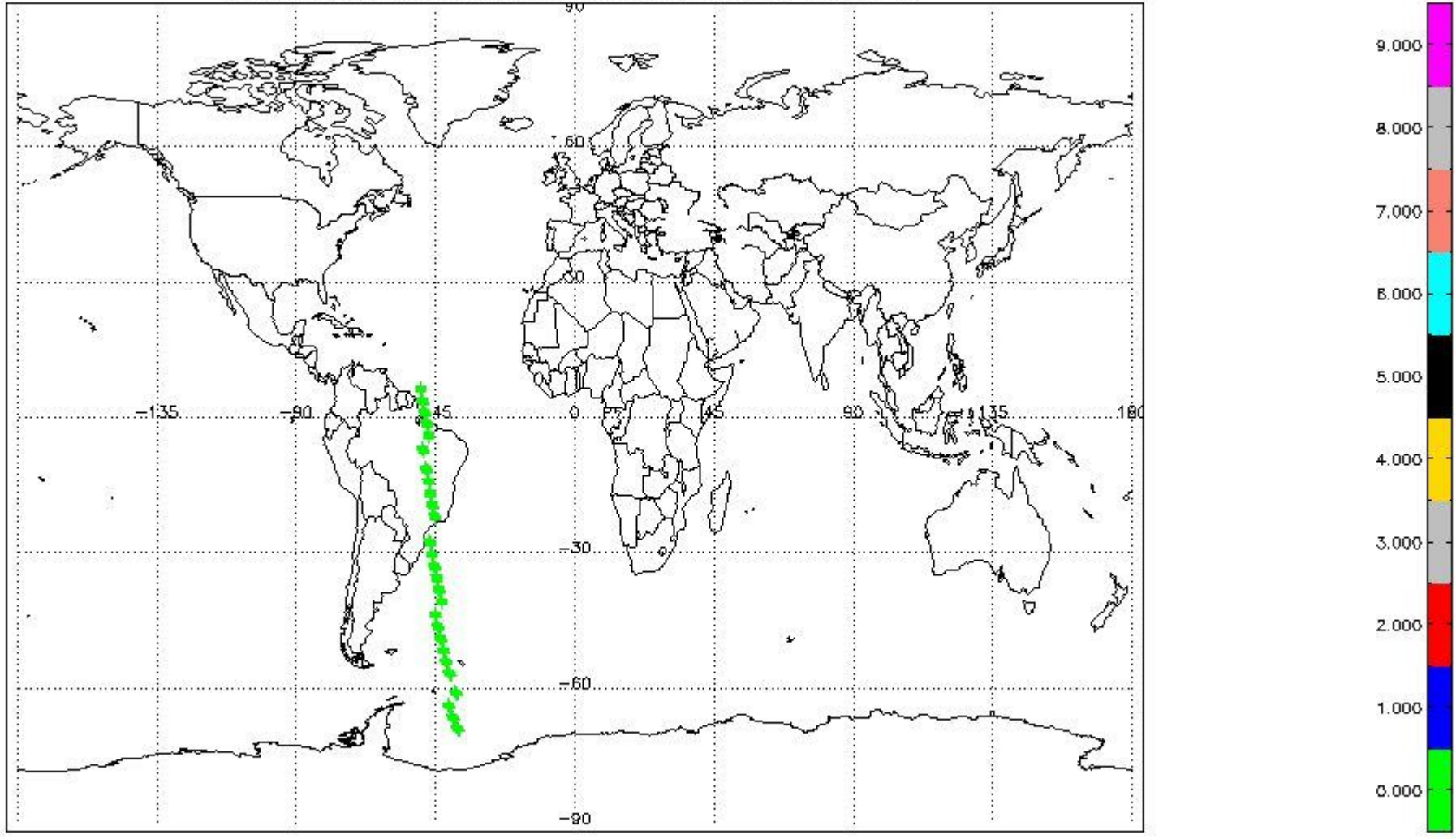


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_15.PNG

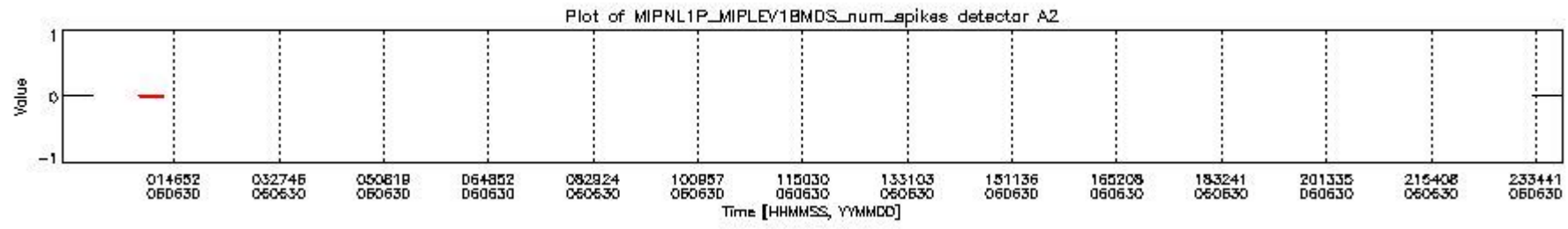


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_16.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1

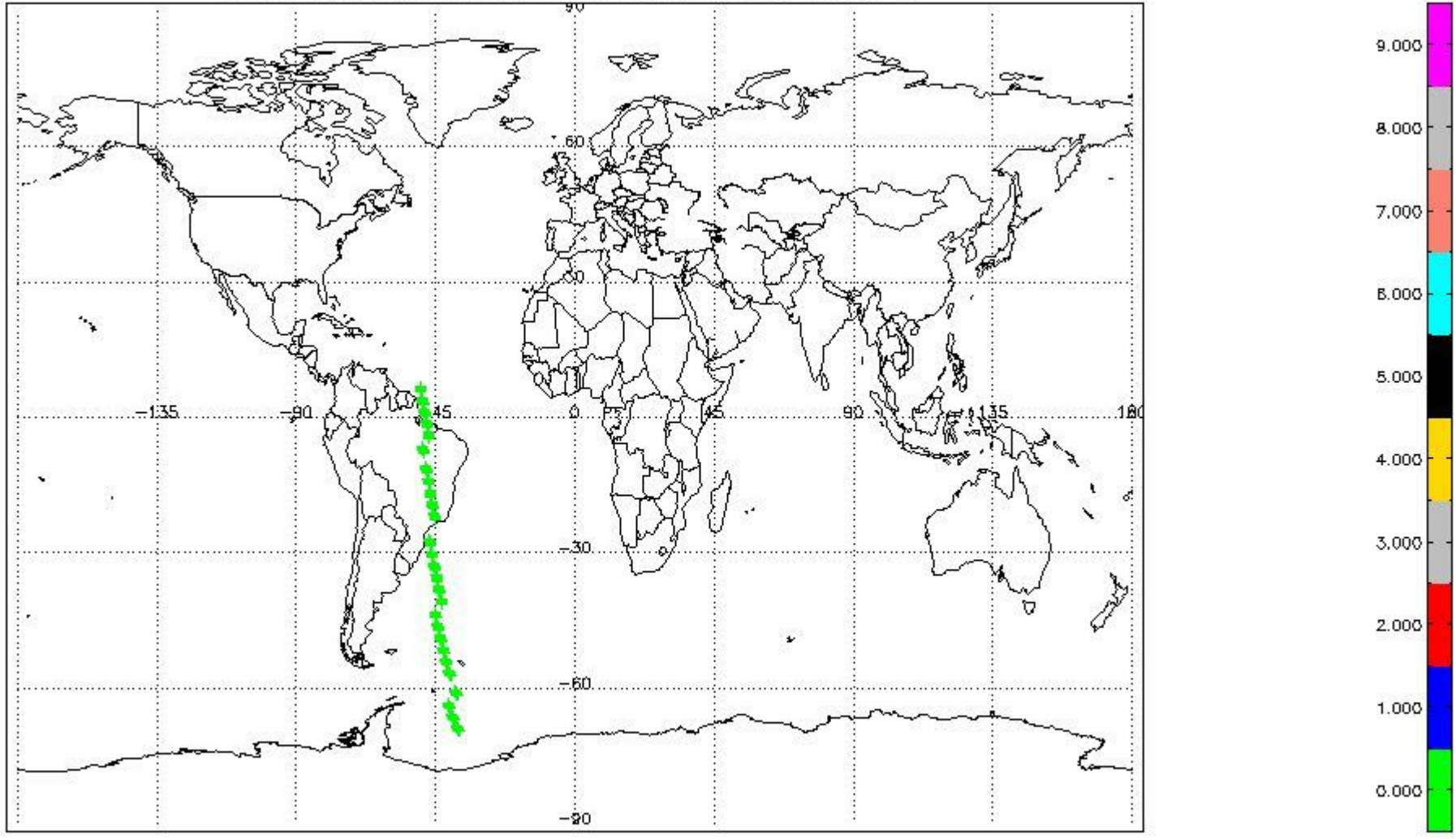


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_17.PNG

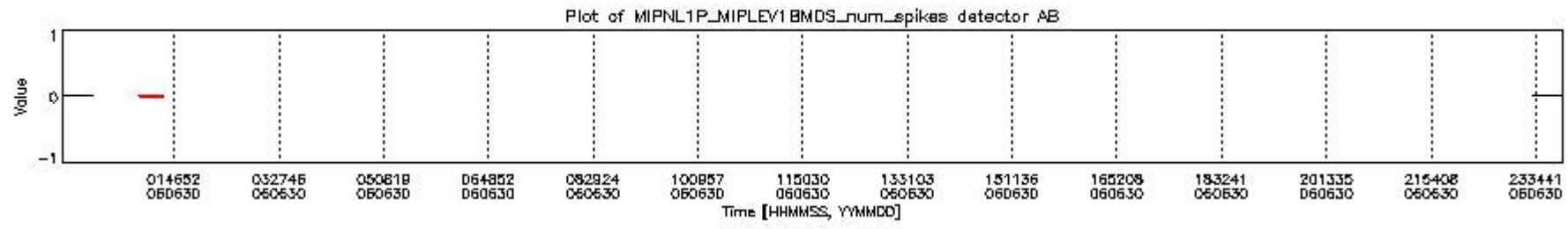


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_18.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2

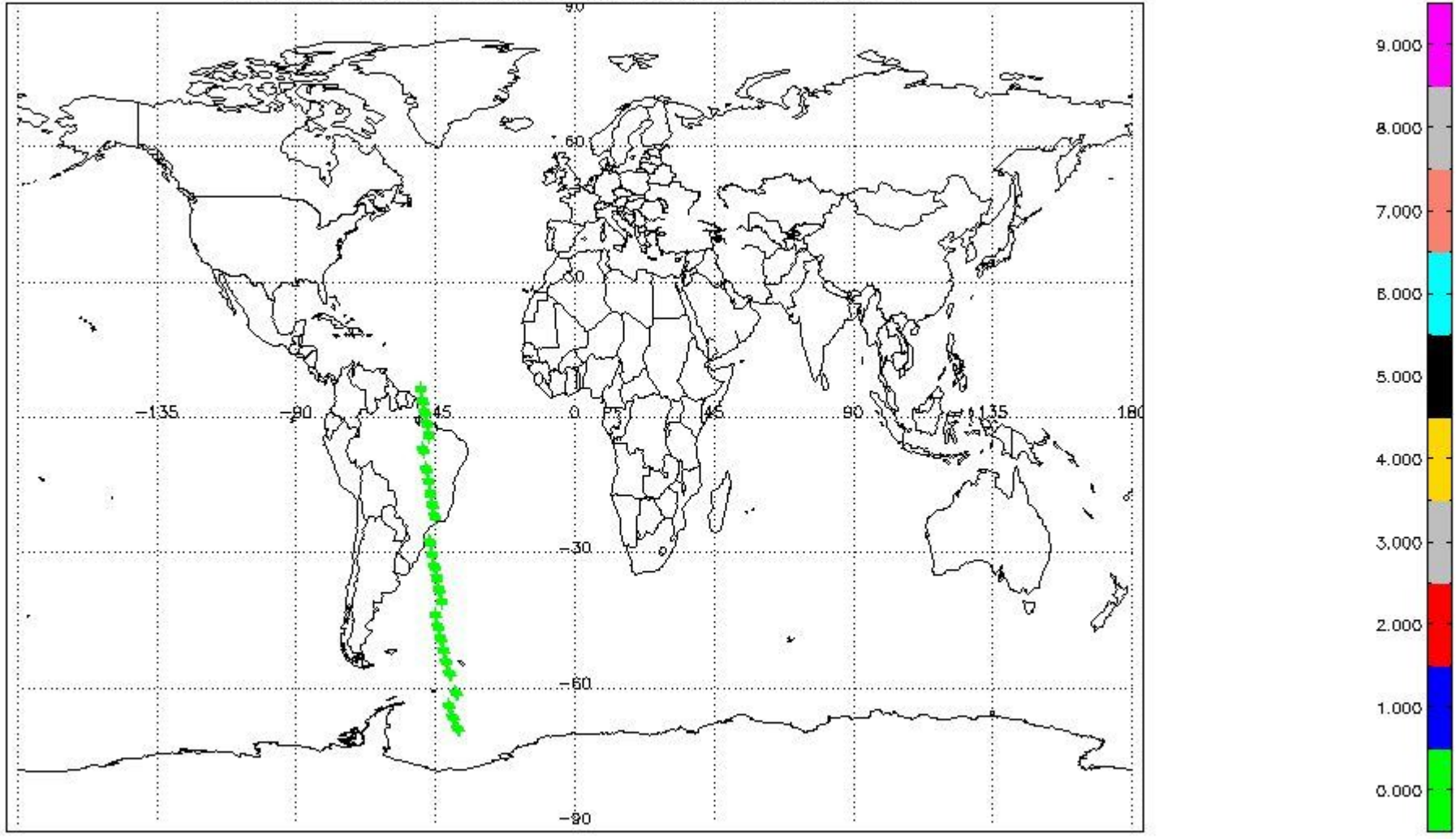


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_19.PNG

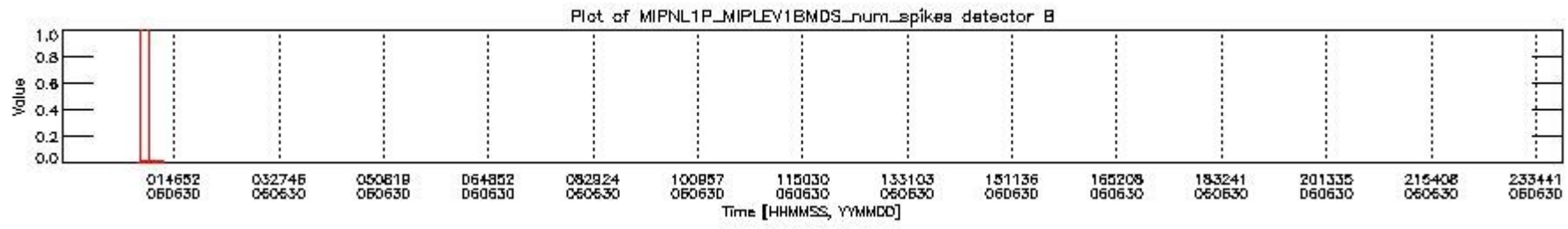


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_20.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB

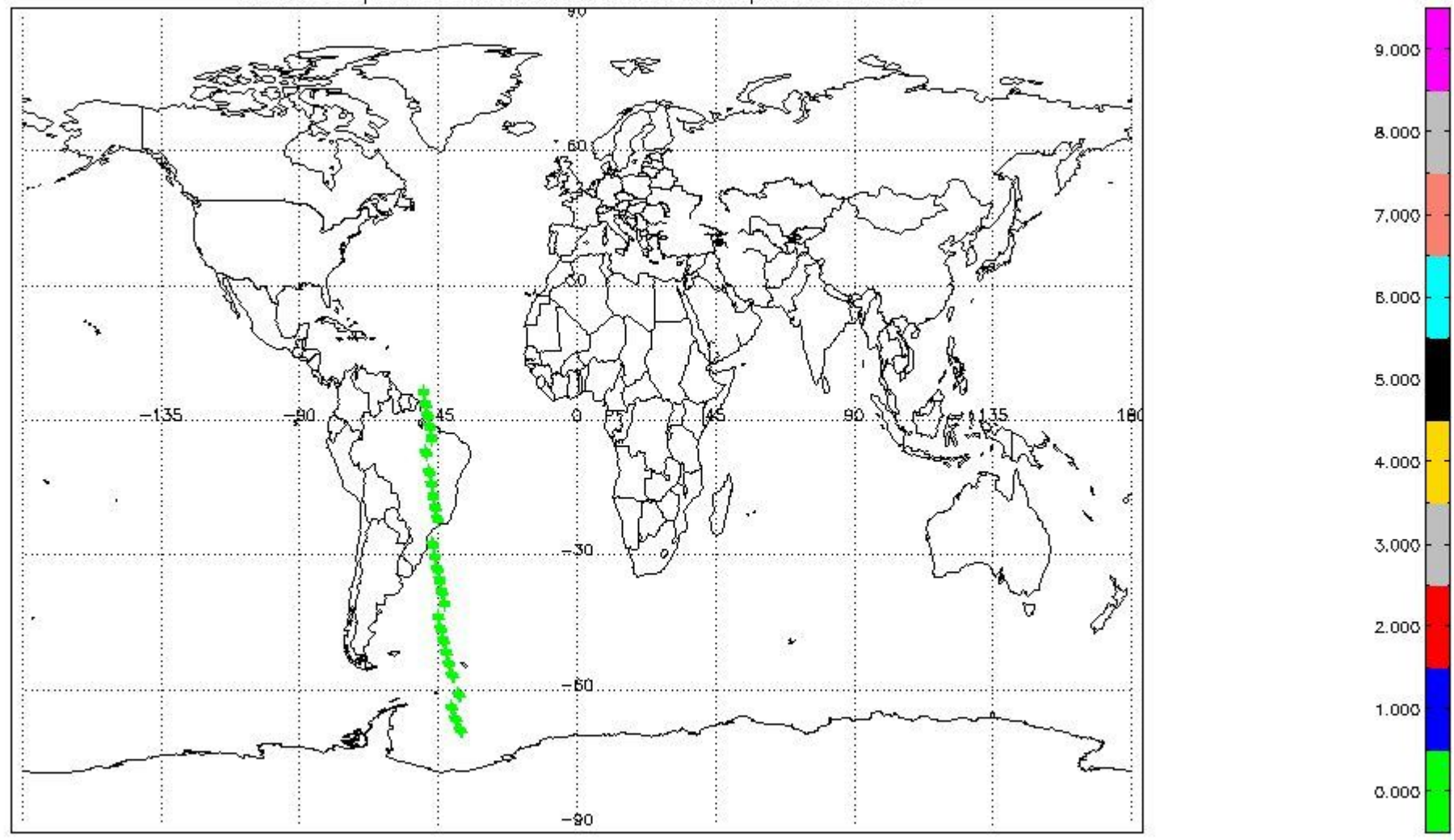


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_21.PNG

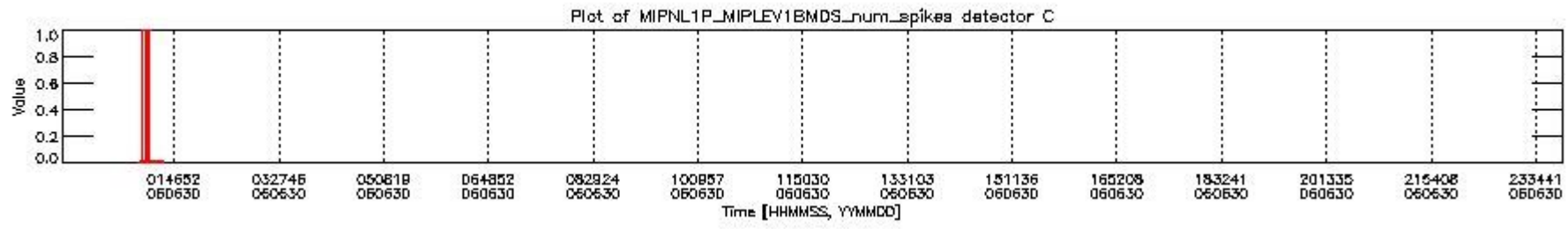


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_22.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B

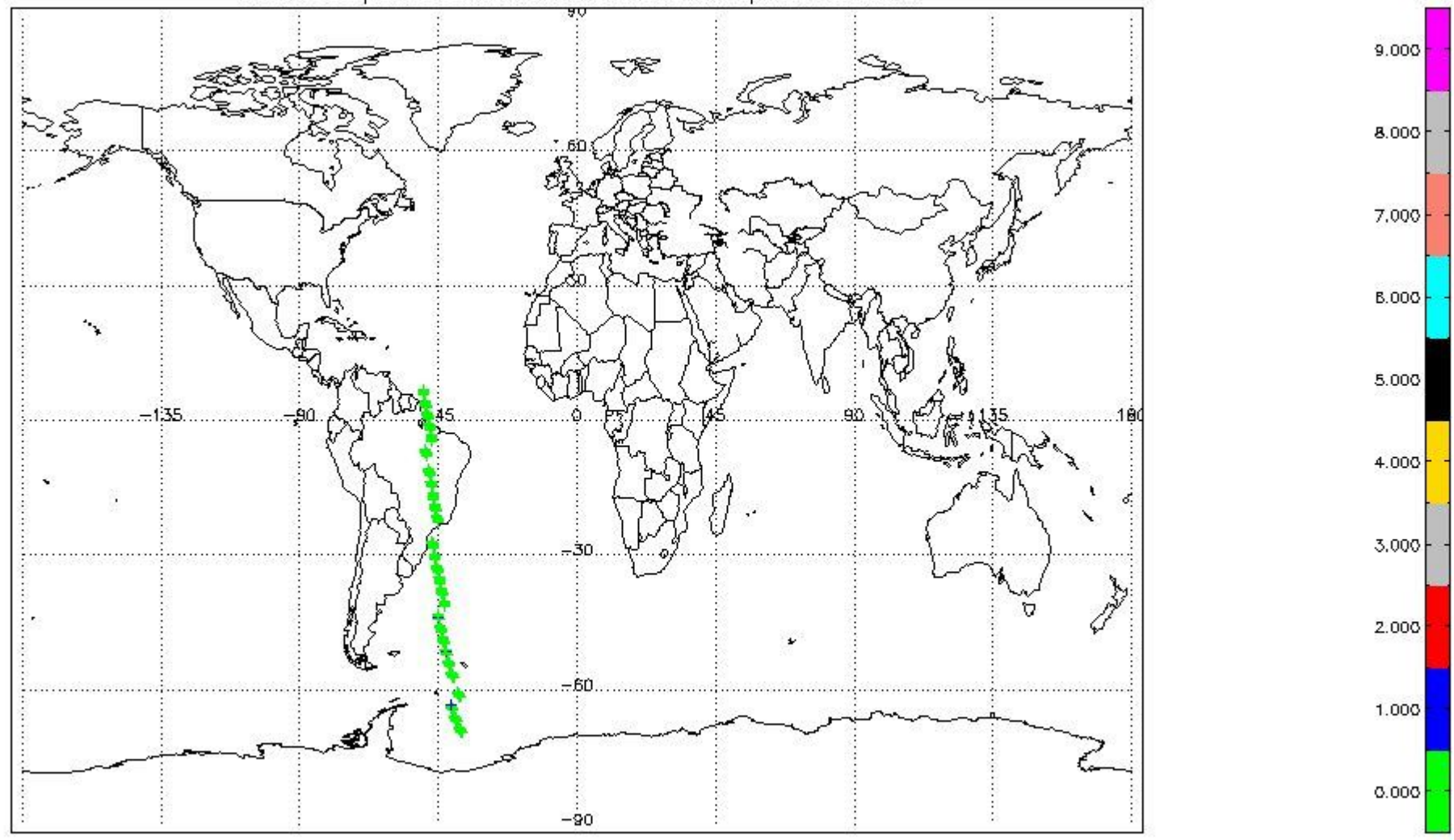


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_23.PNG

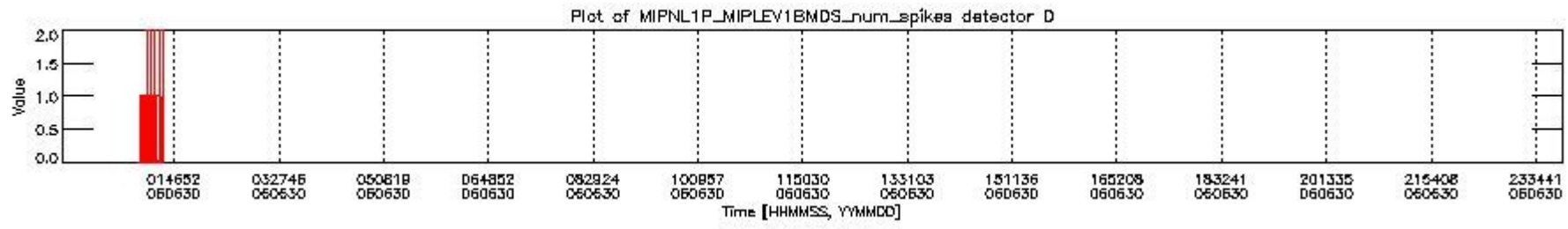


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_24.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C

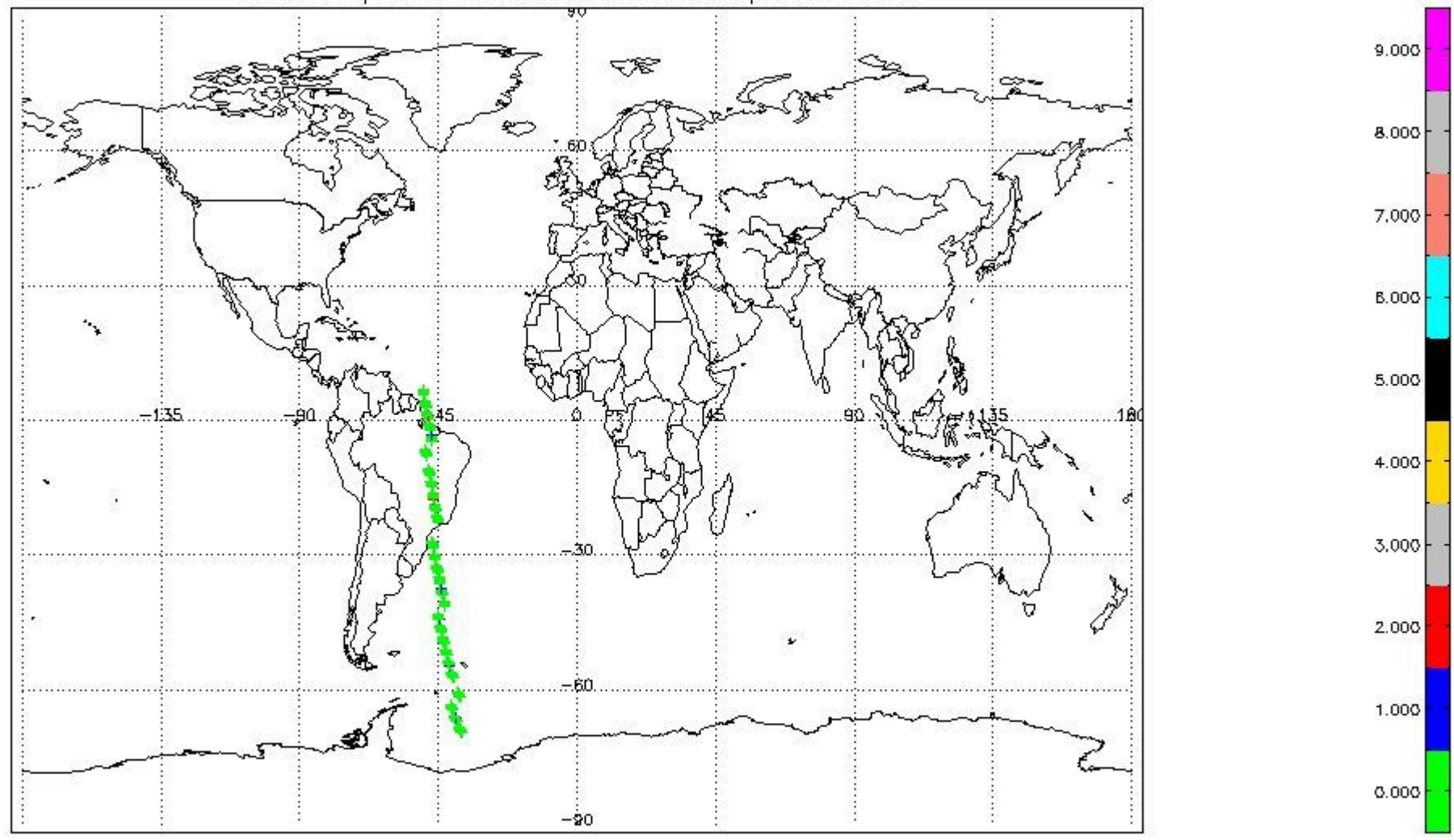


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_25.PNG

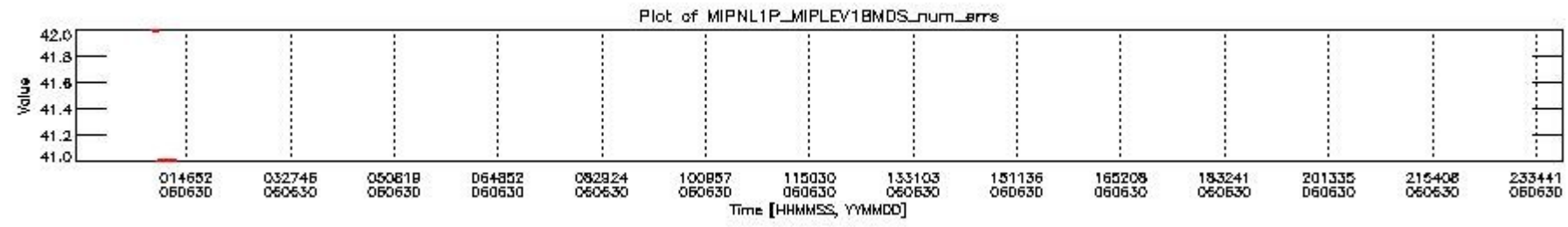


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_26.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D

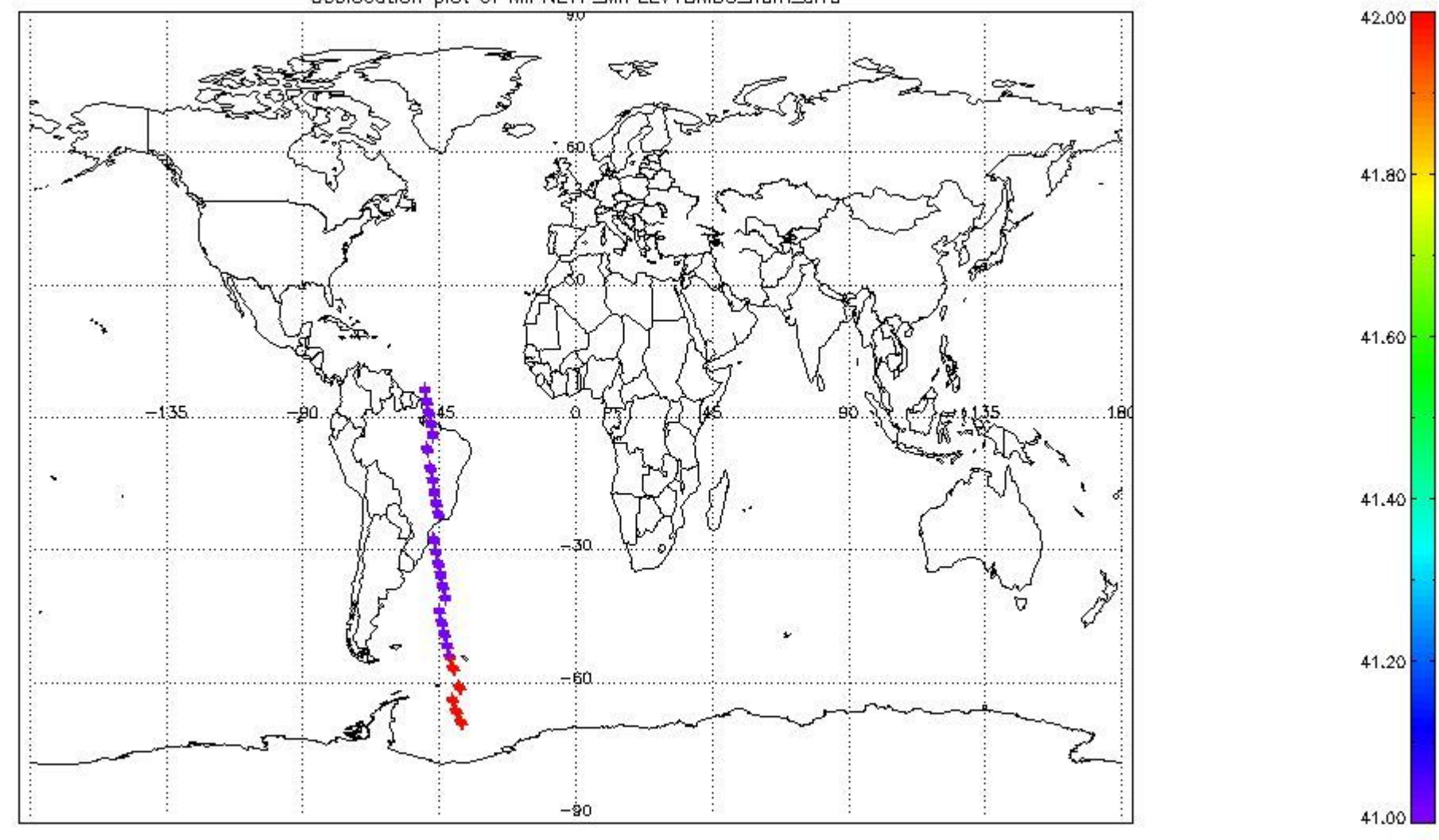


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_27.PNG

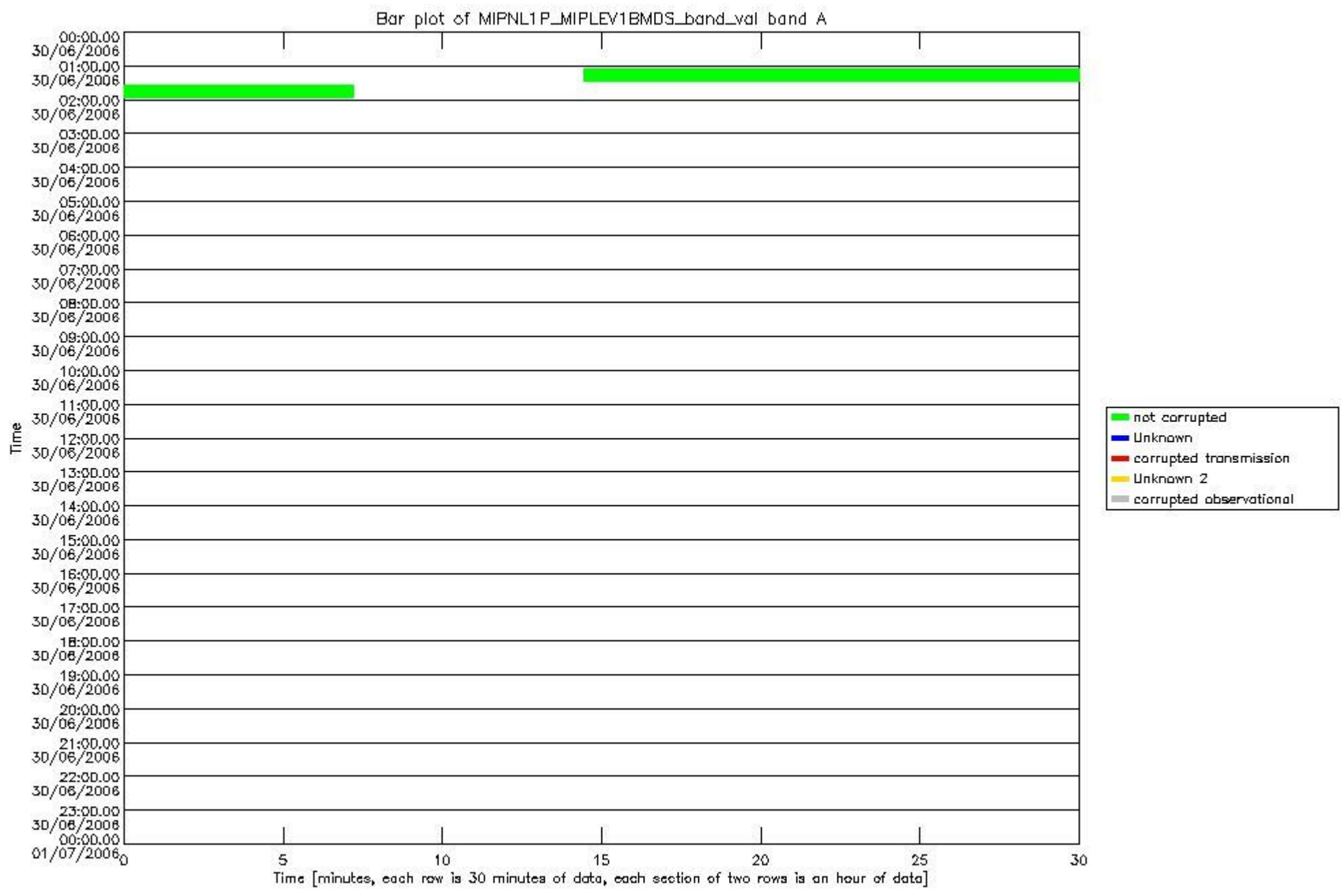


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_28.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs

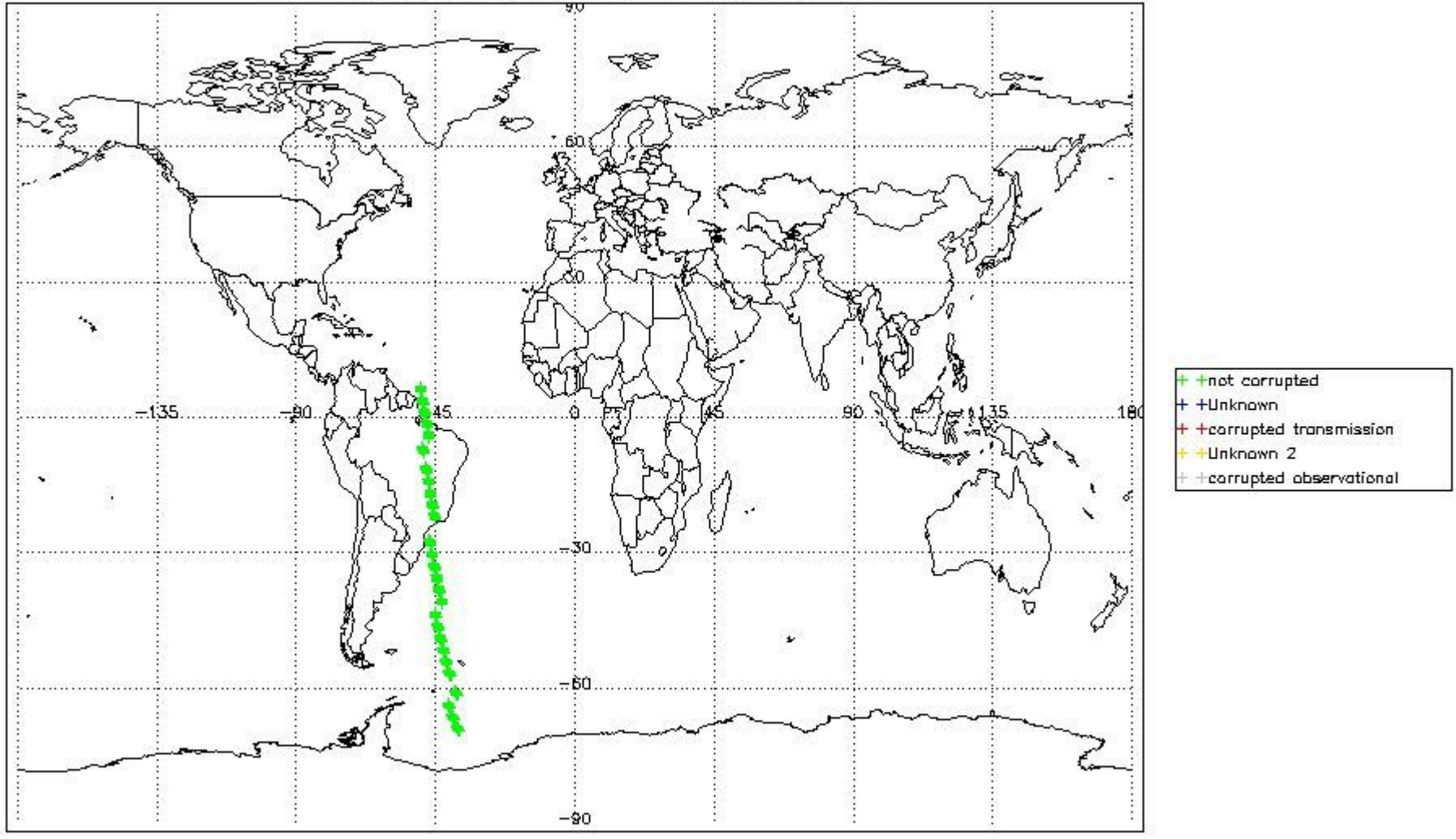


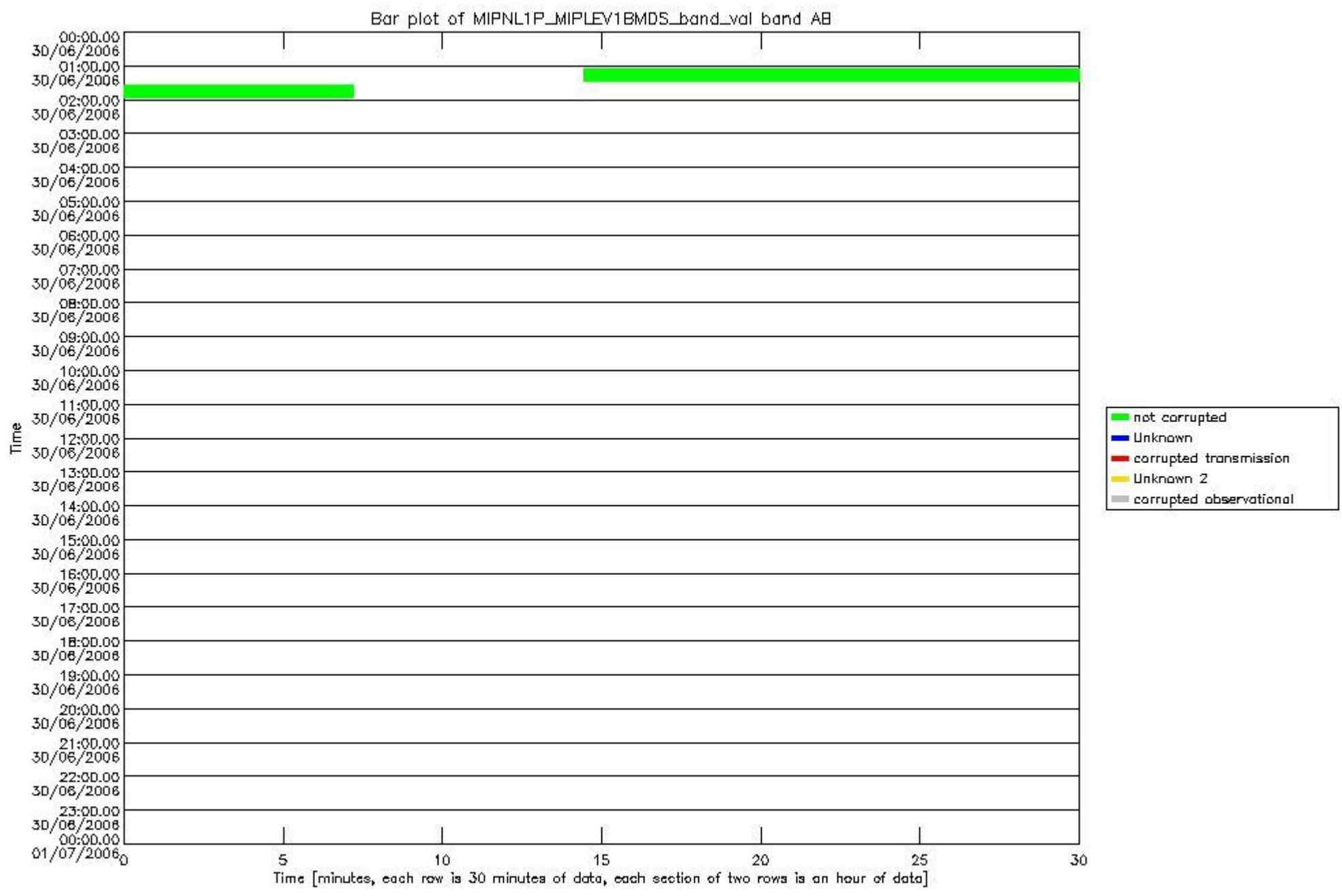
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_29.PNG



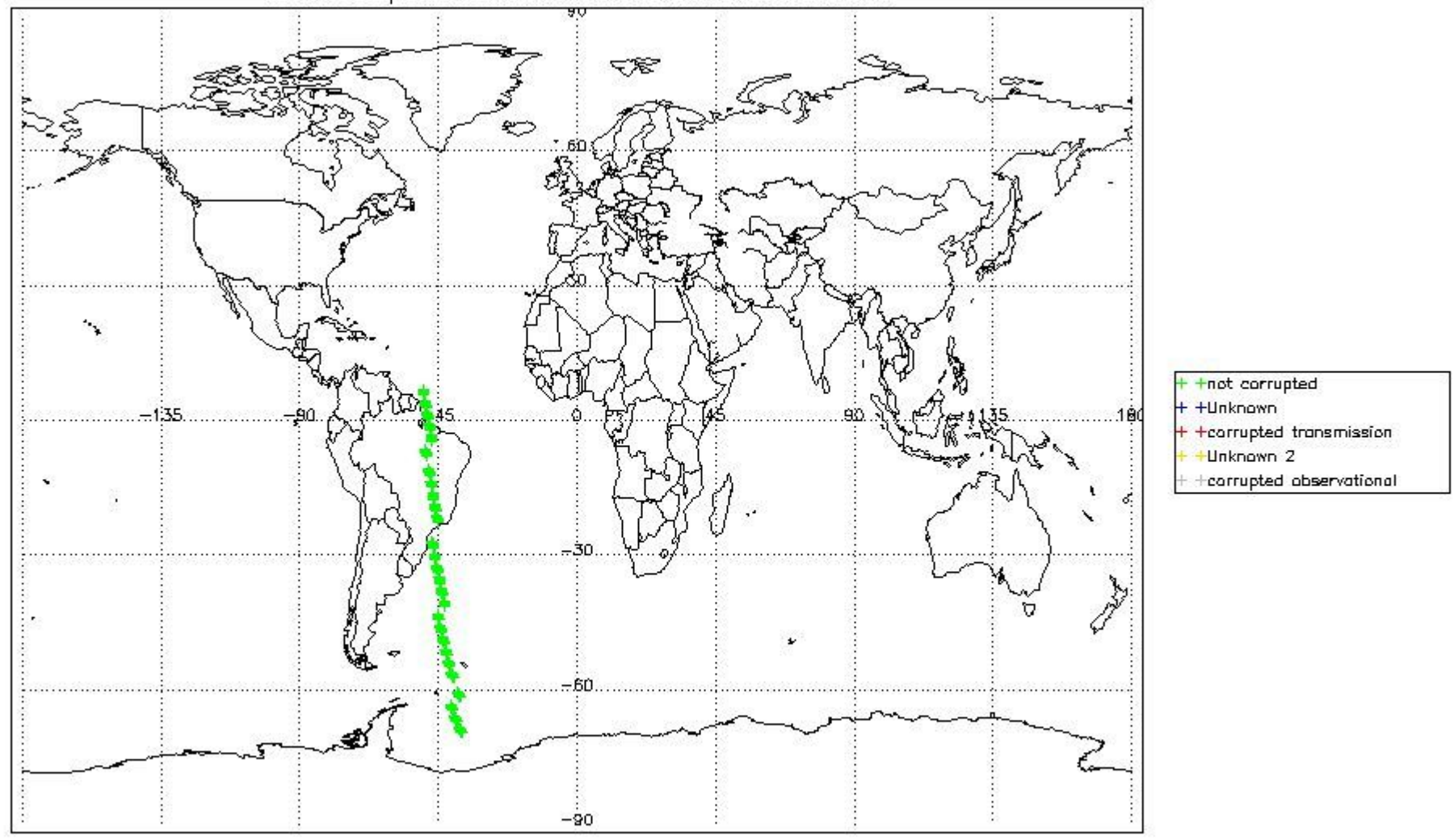
mipas_daily_report_level1_OFI_MIPAS_4_65_P_20060630_30.PNG

Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A

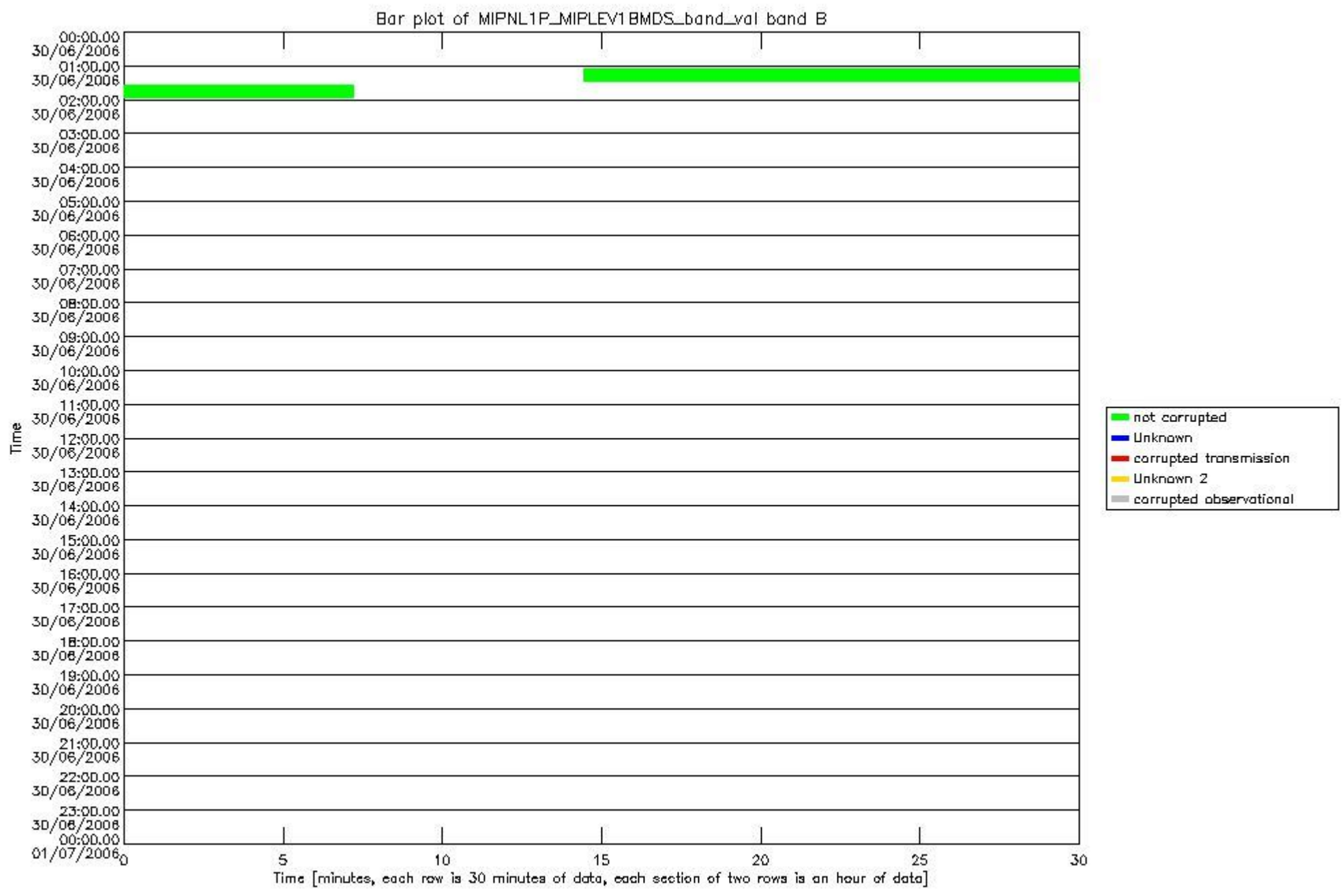




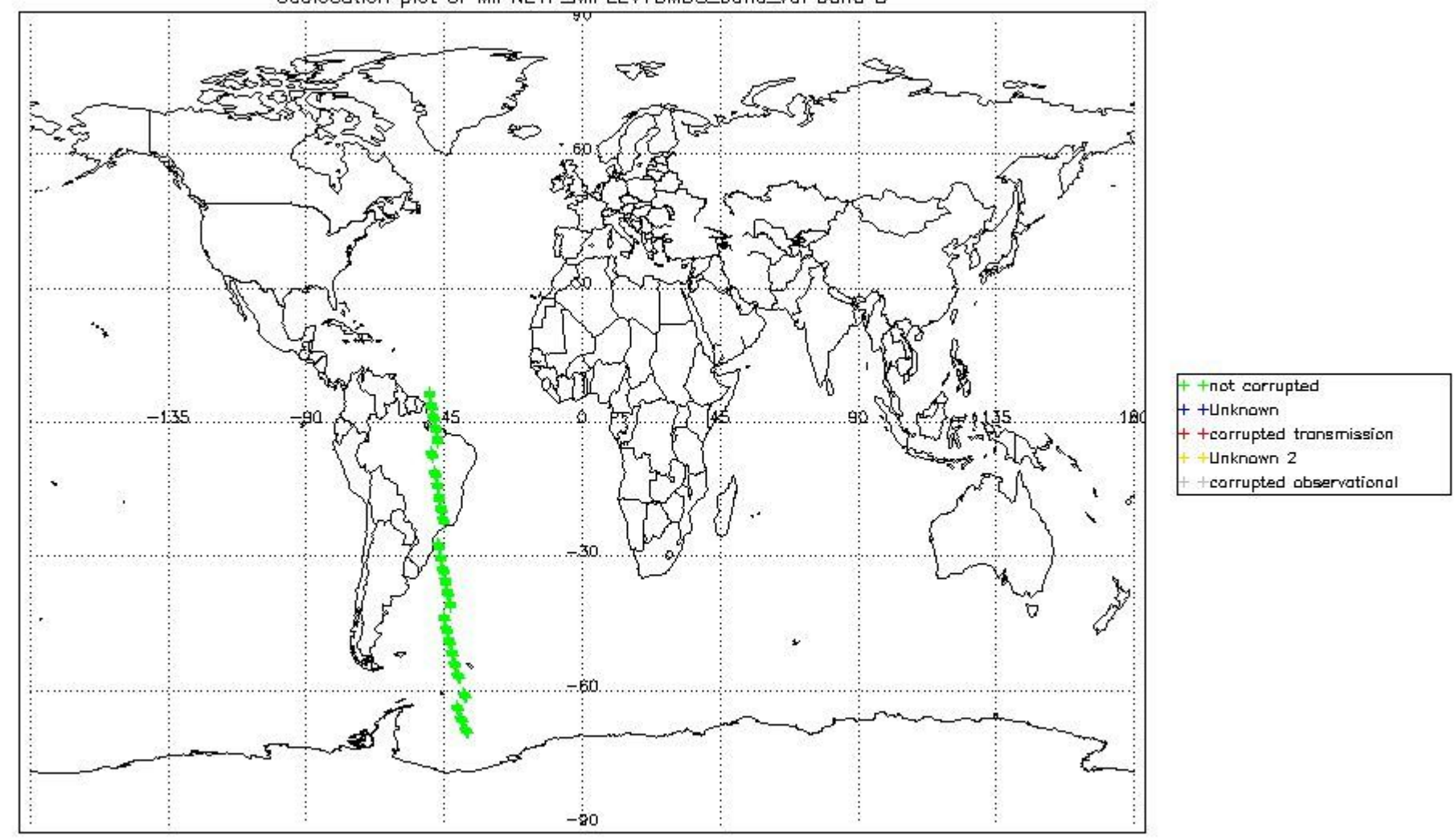
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB

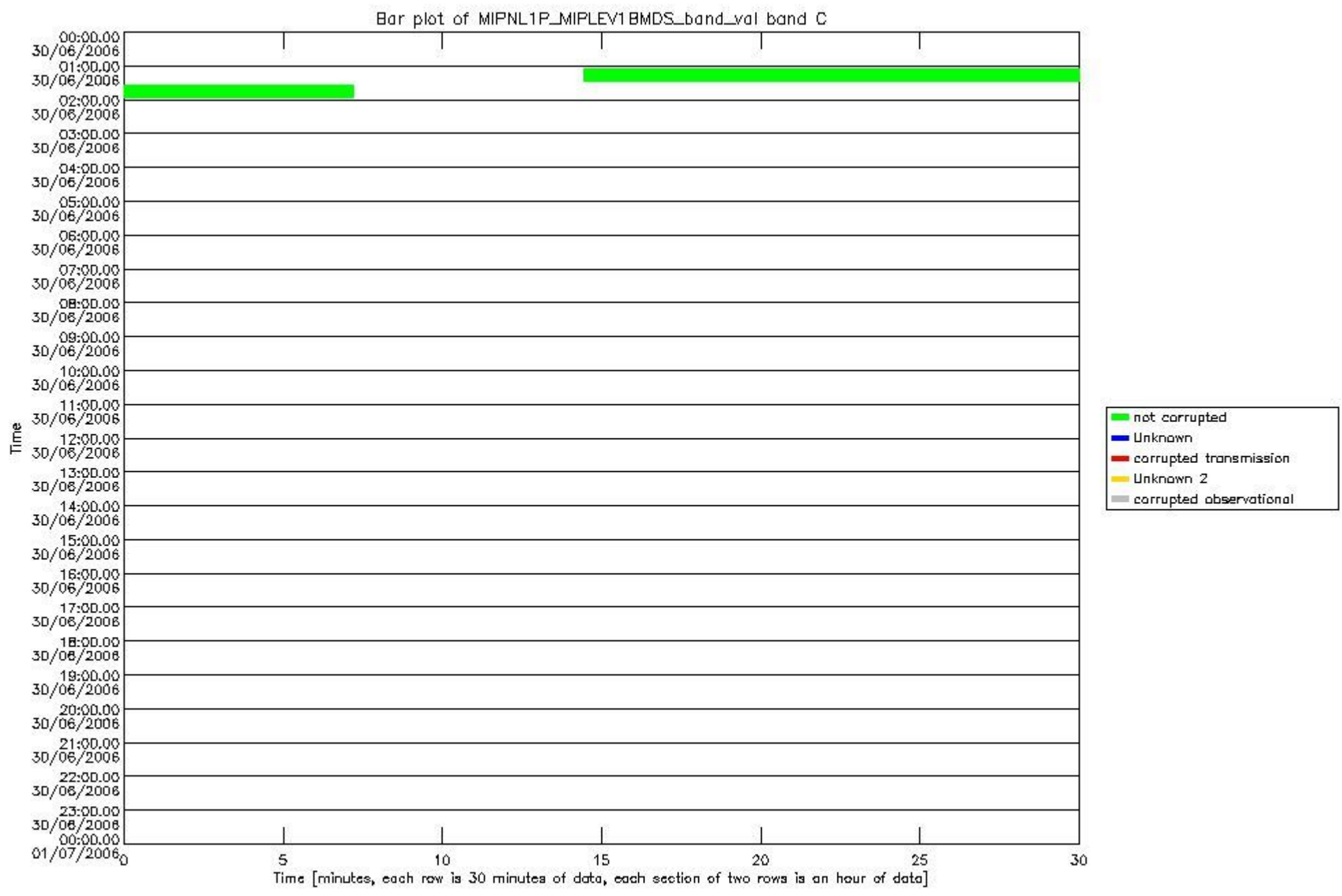


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_33.PNG

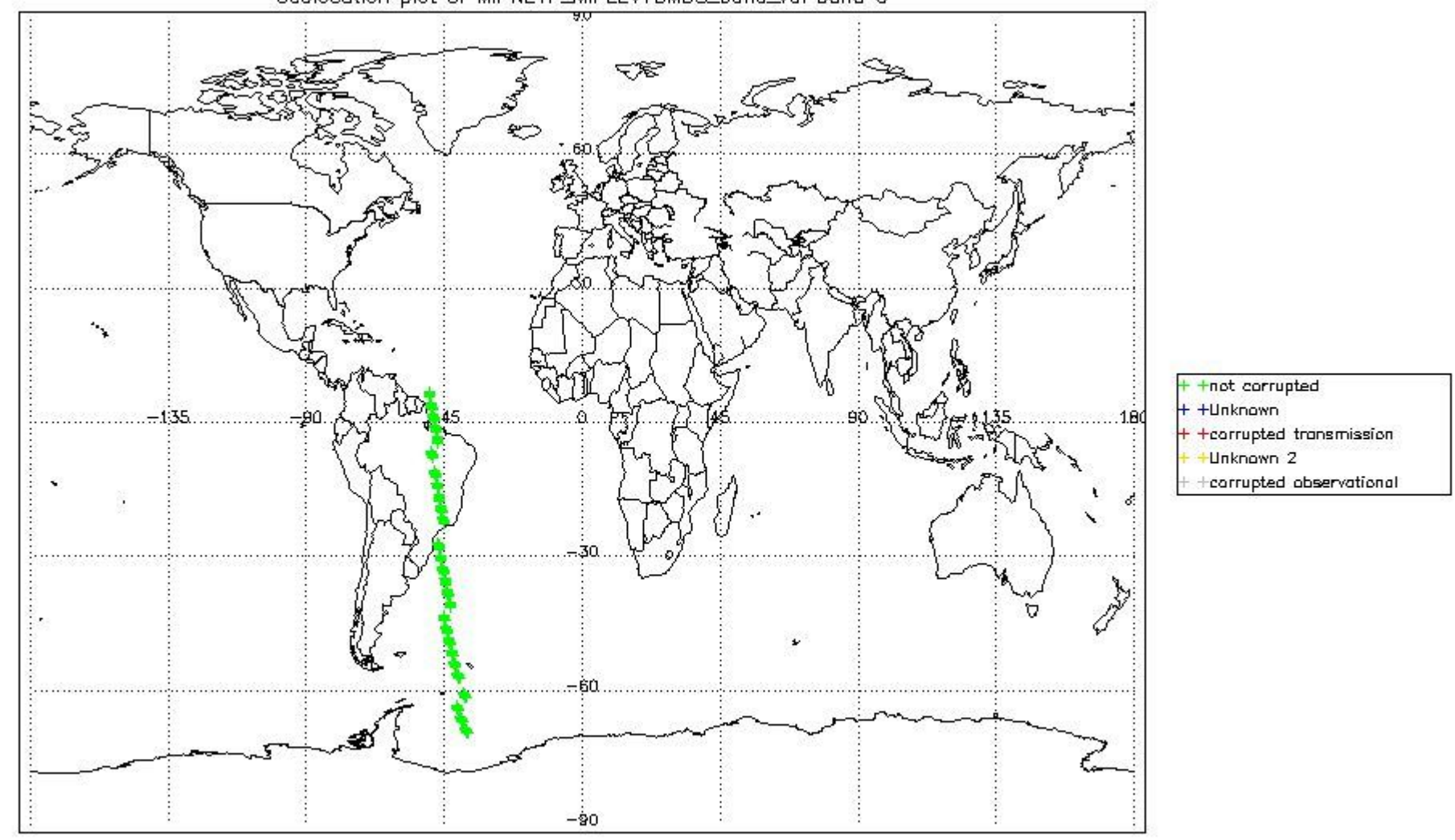


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B

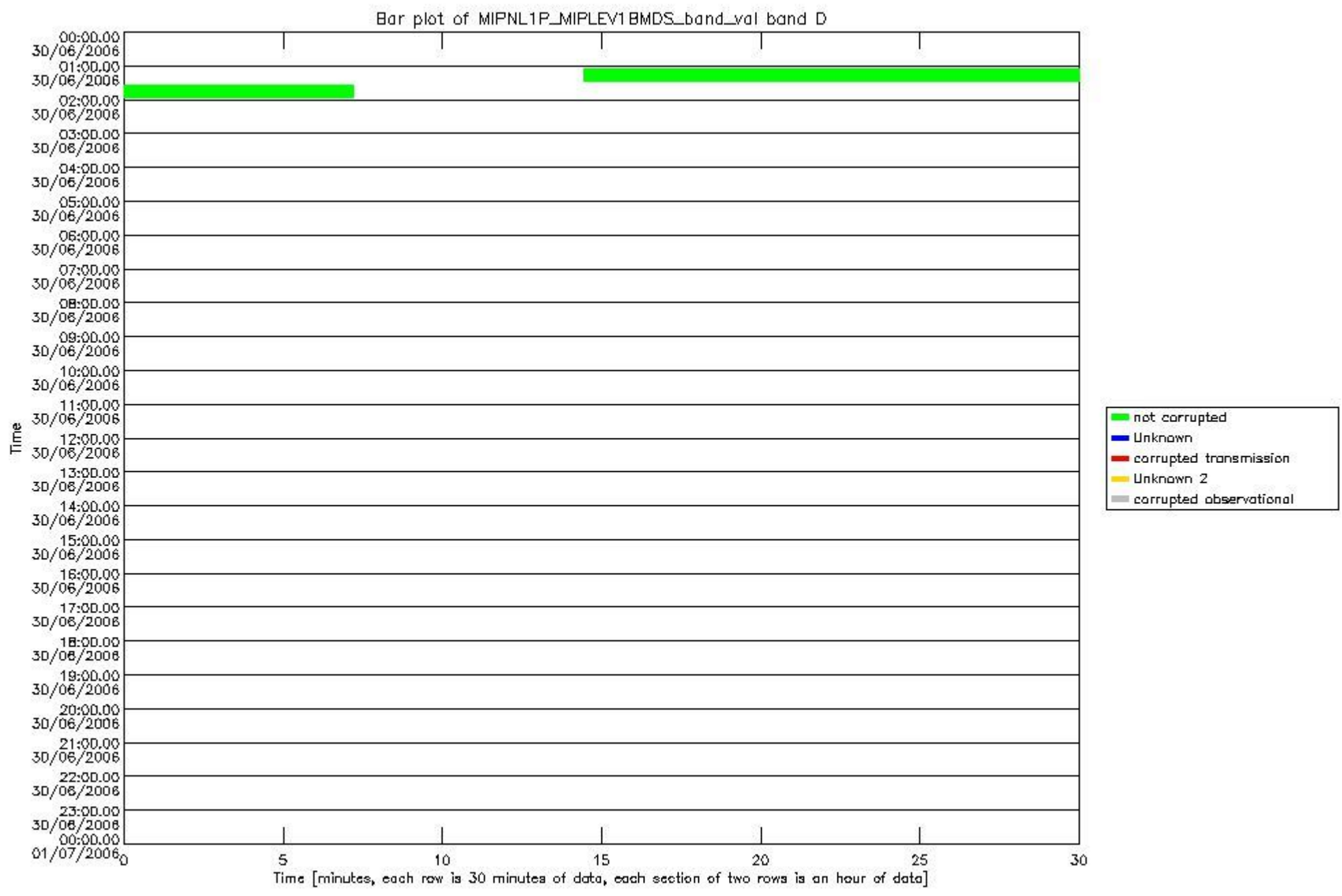




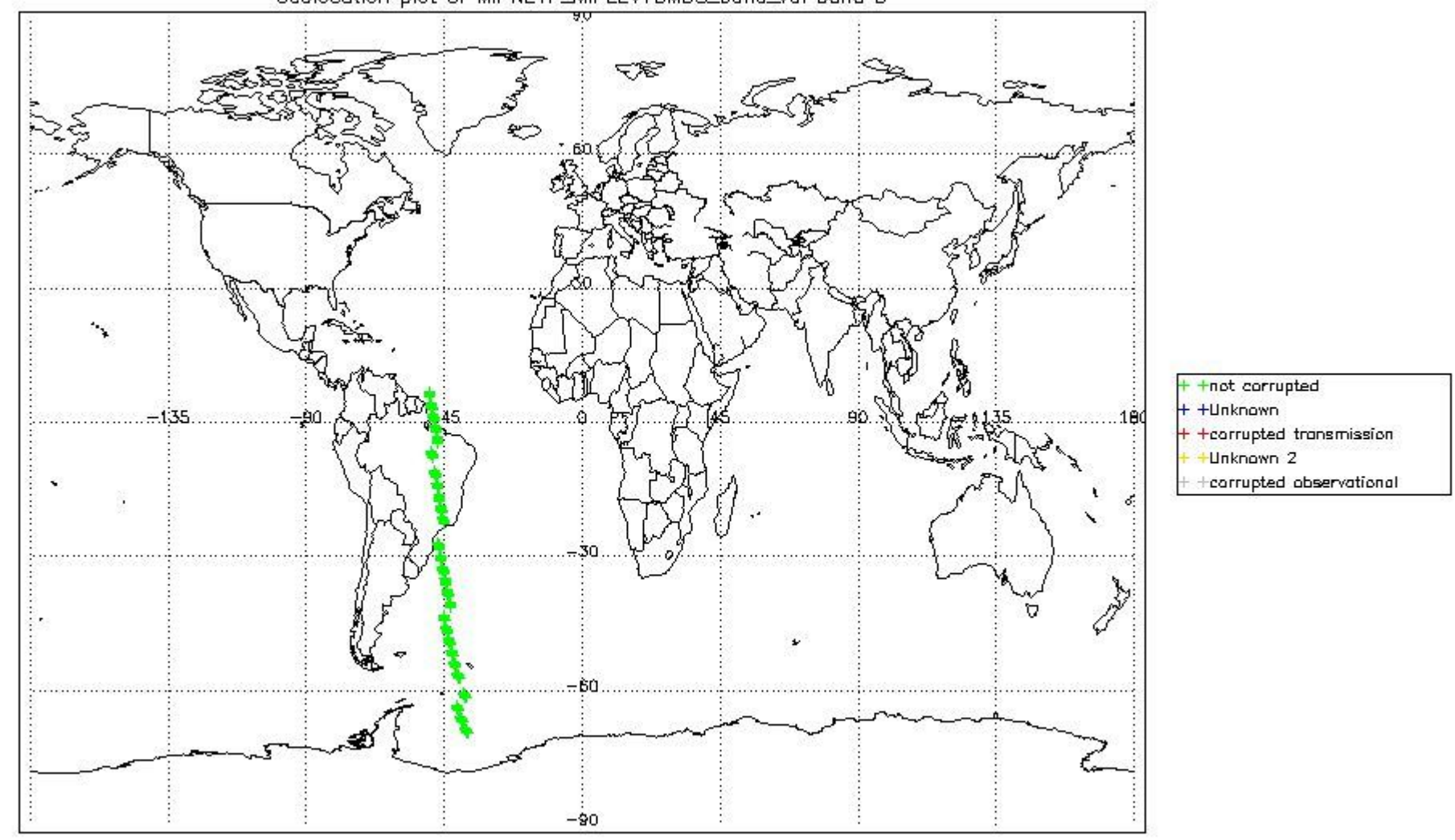
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C

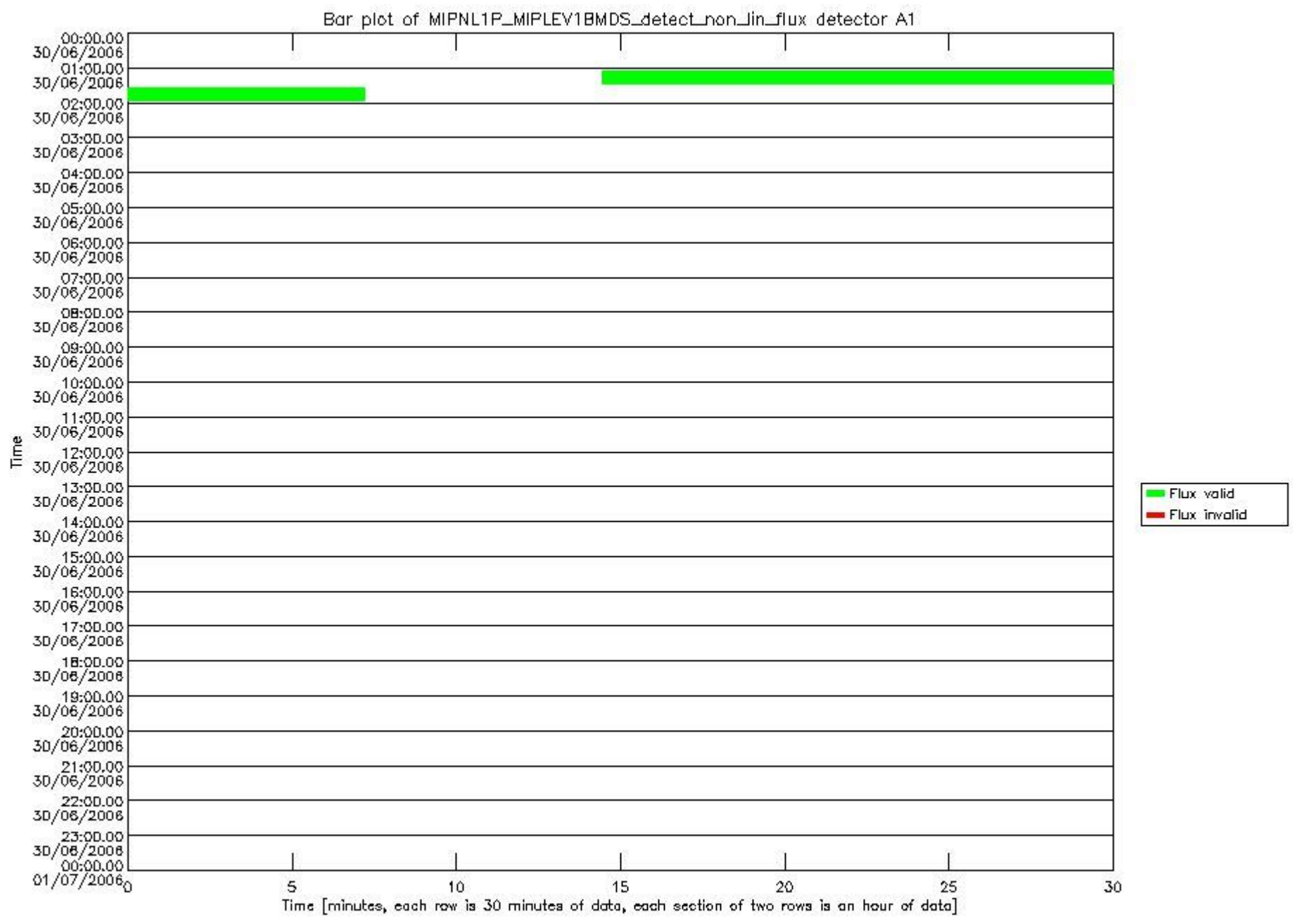


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_37.PNG

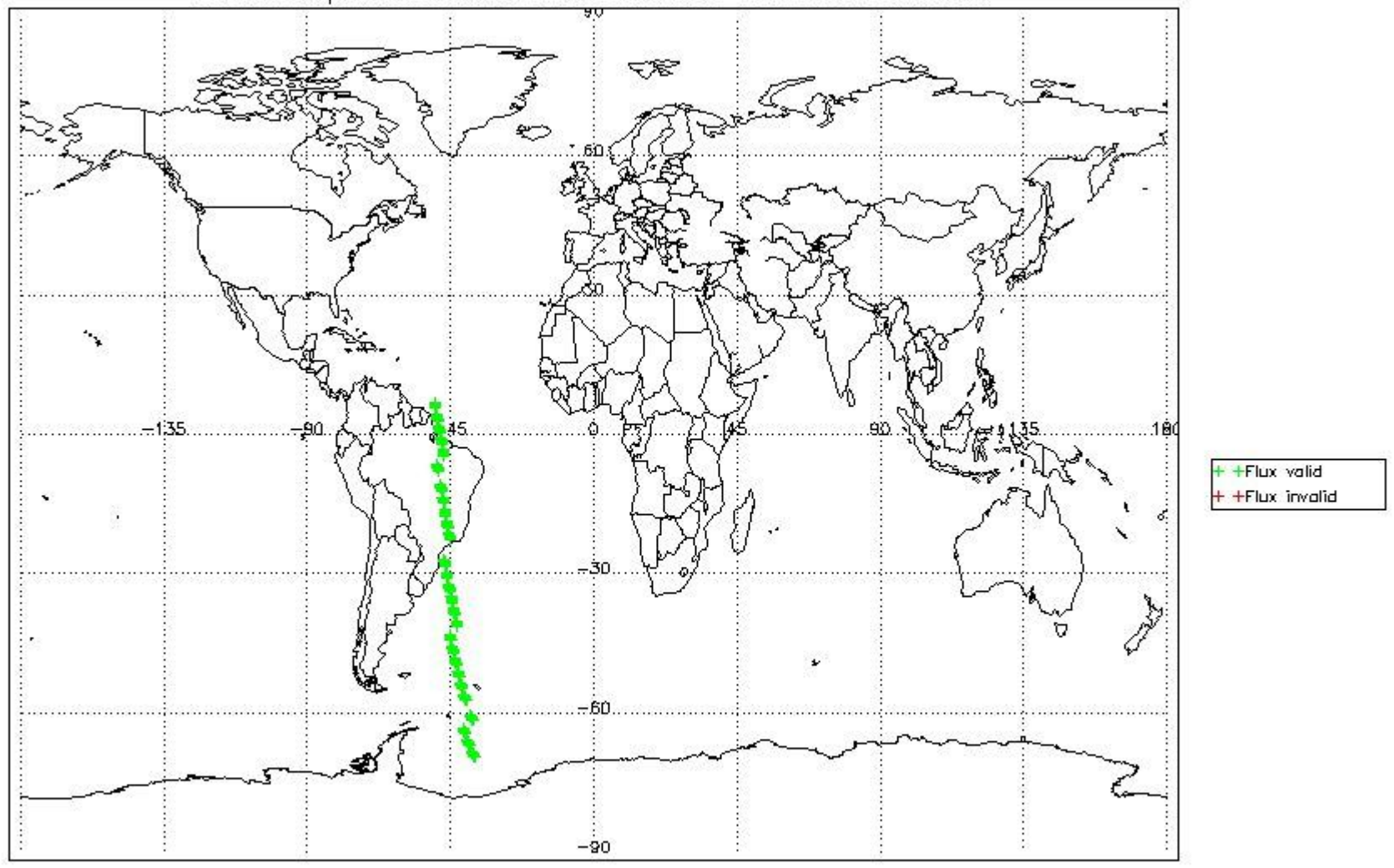


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D



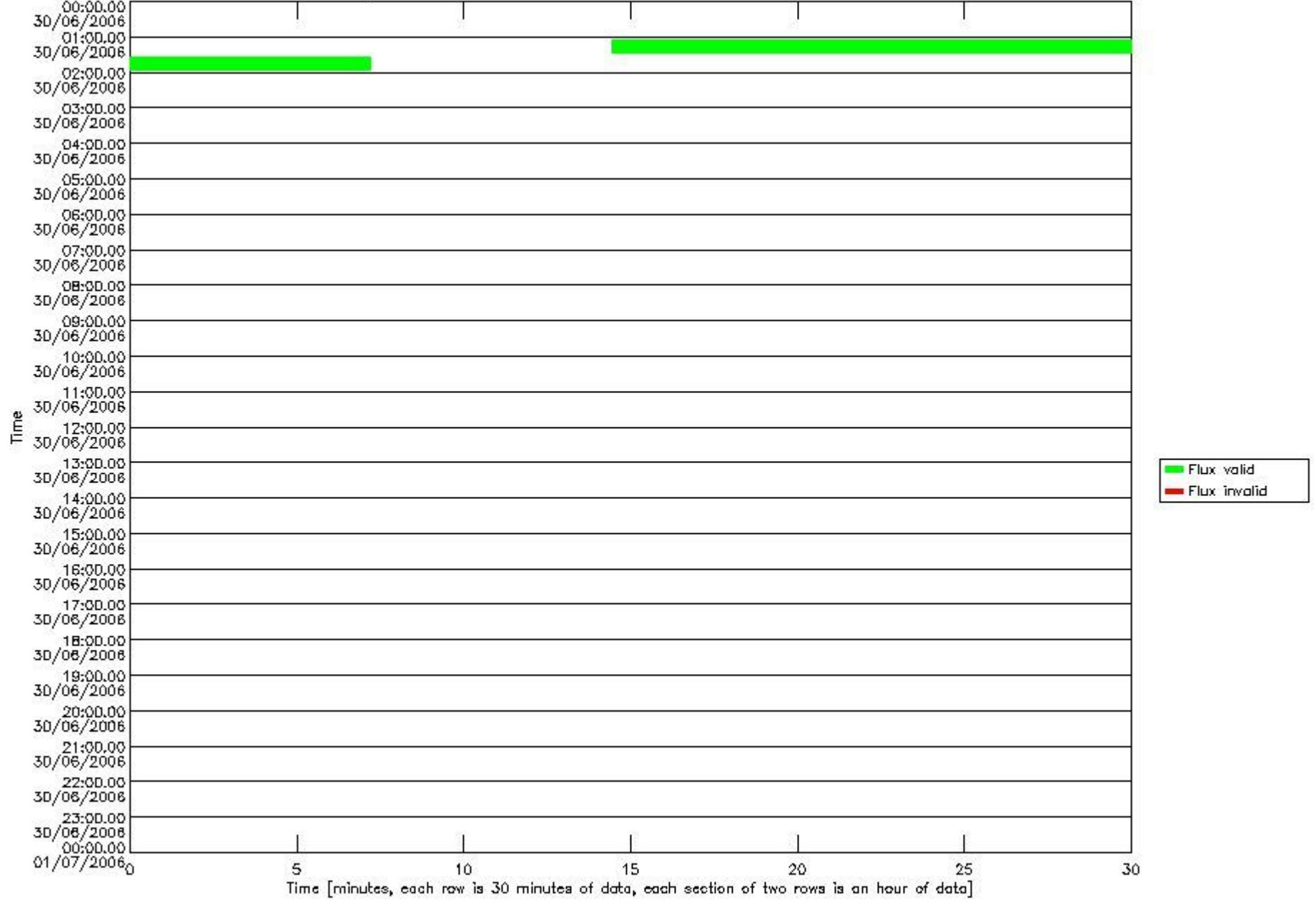


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A1

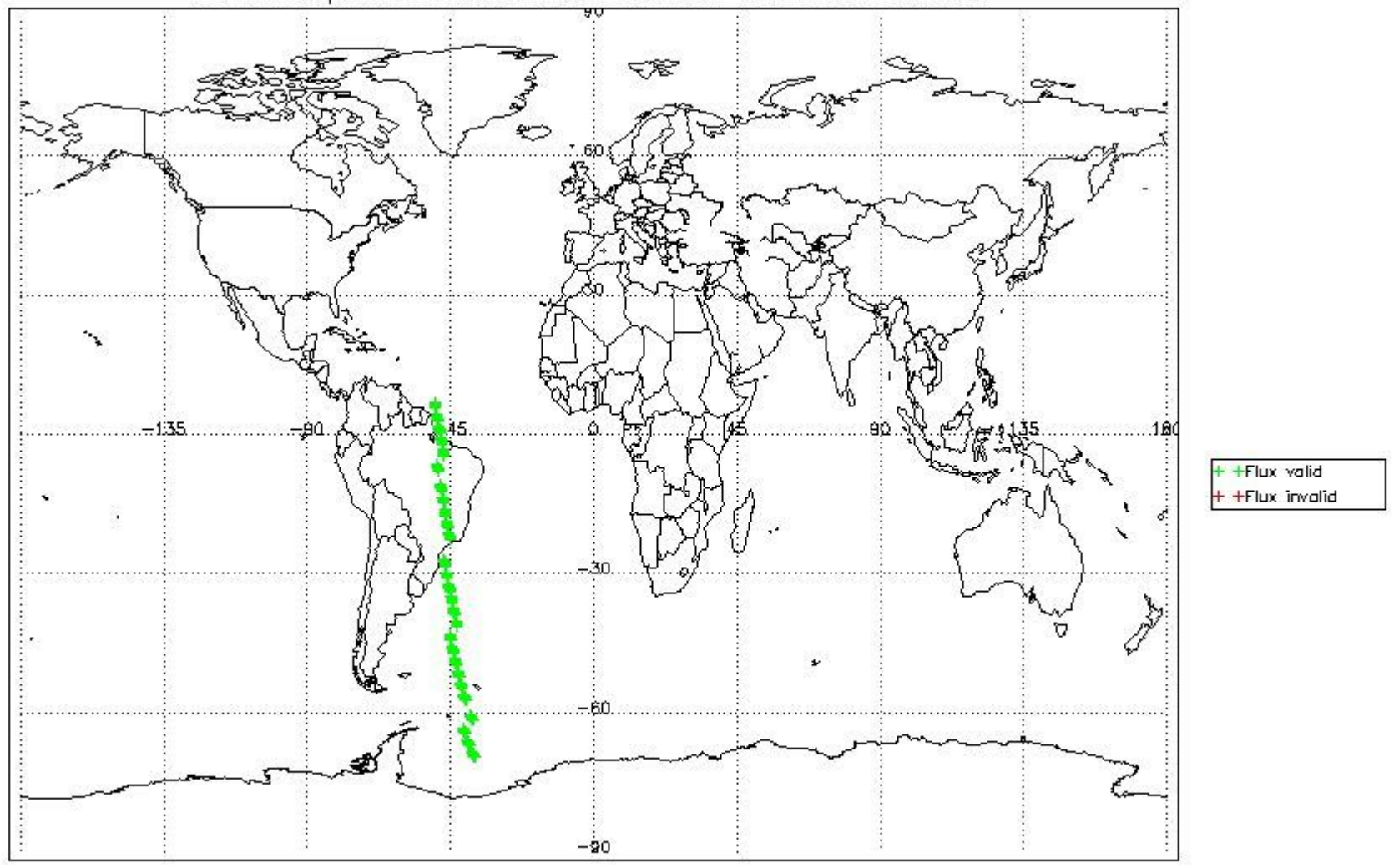


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_41.PNG

Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_jin_flux detector A2

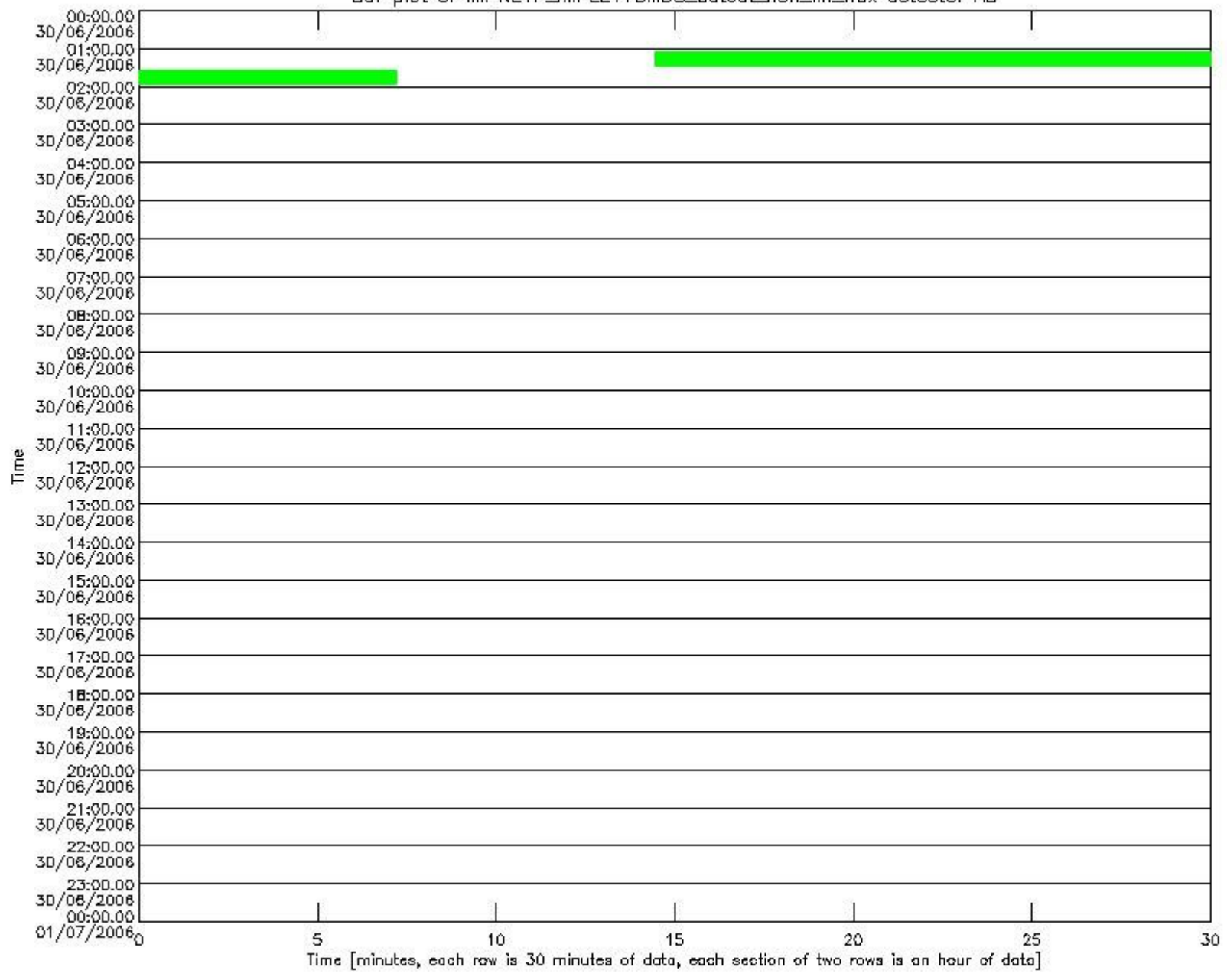


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A2

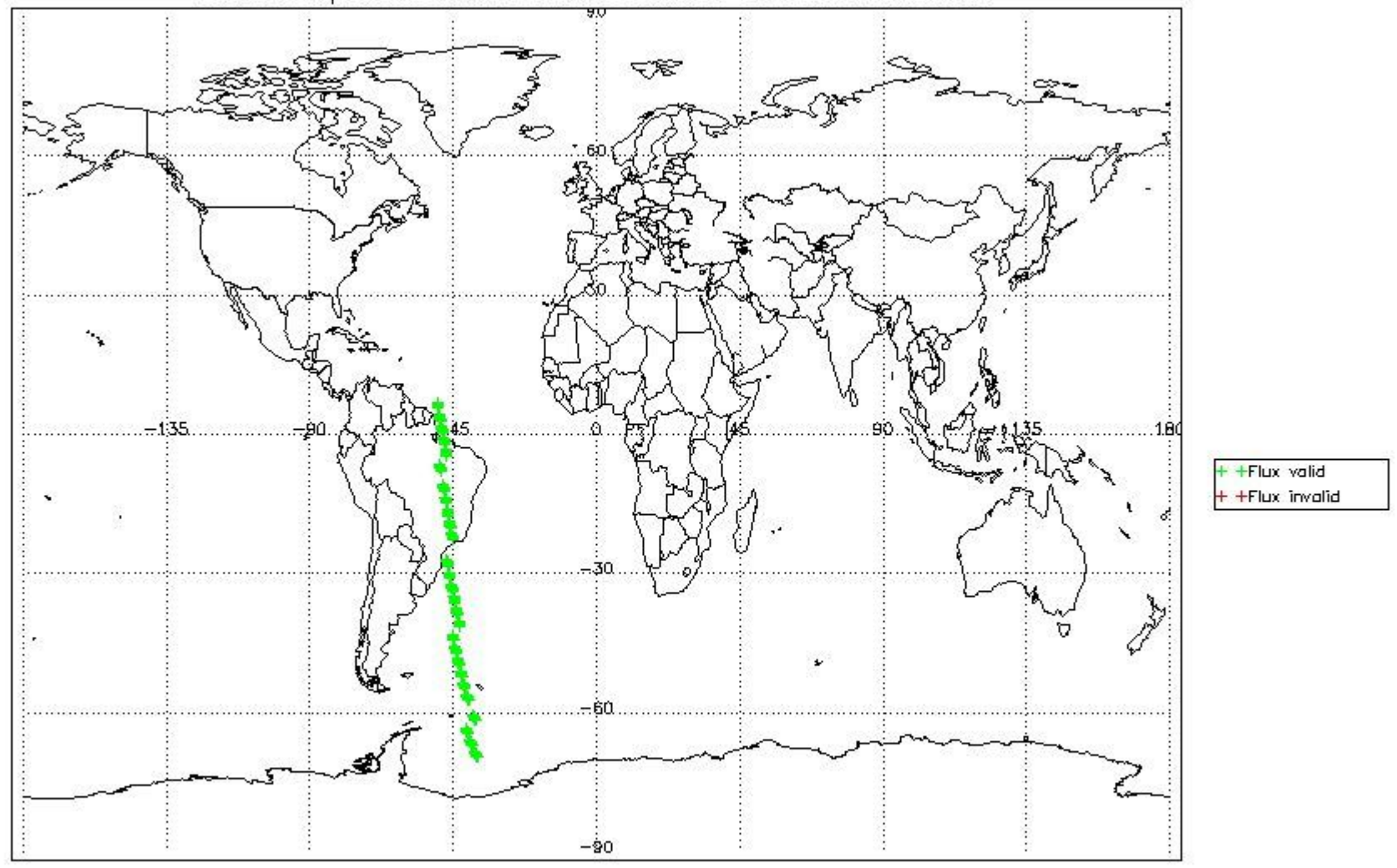


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_43.PNG

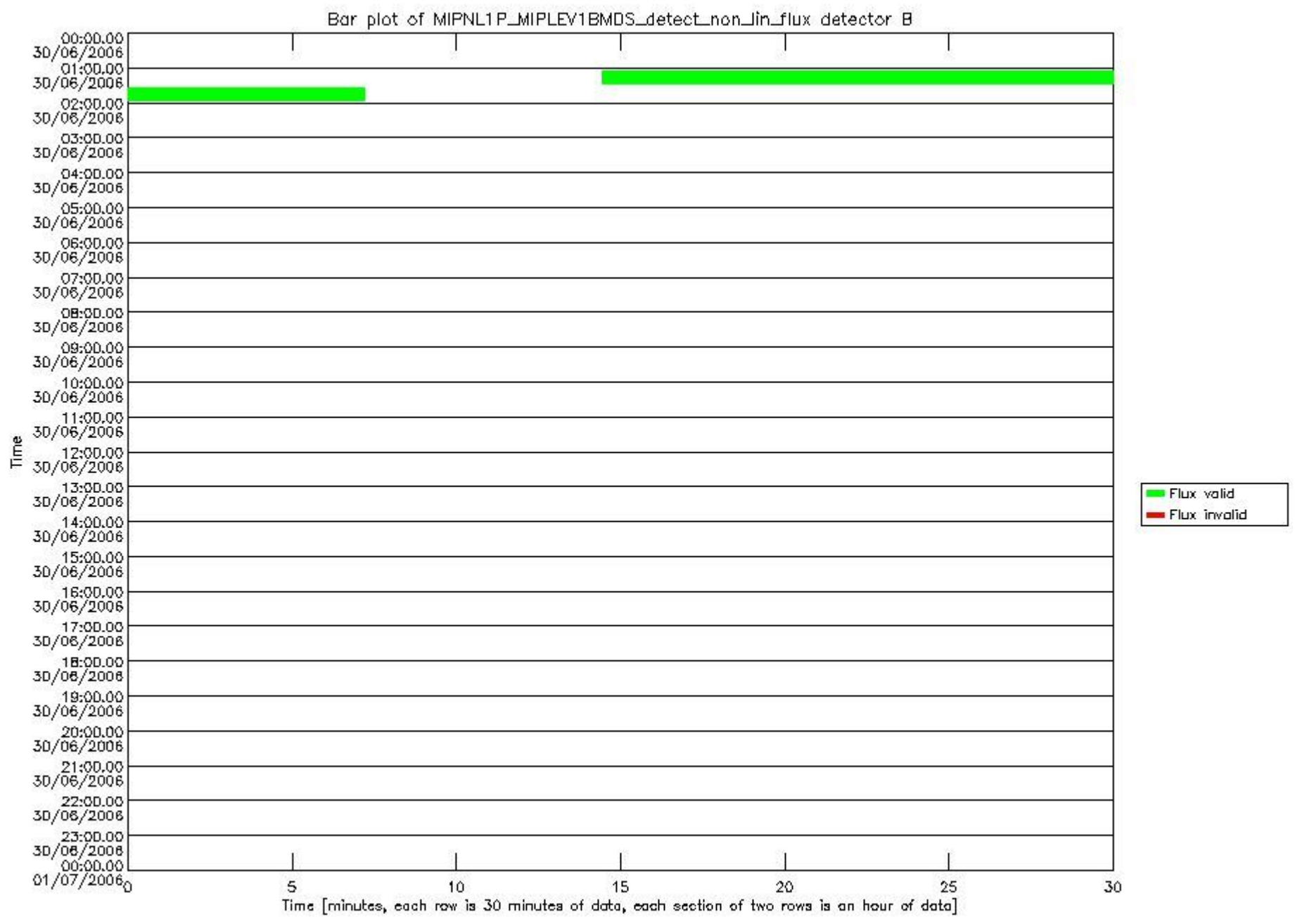
Bar plot of MIPNL1P_MIPLEV1 BMDS_detect_non_lin_flux detector AB

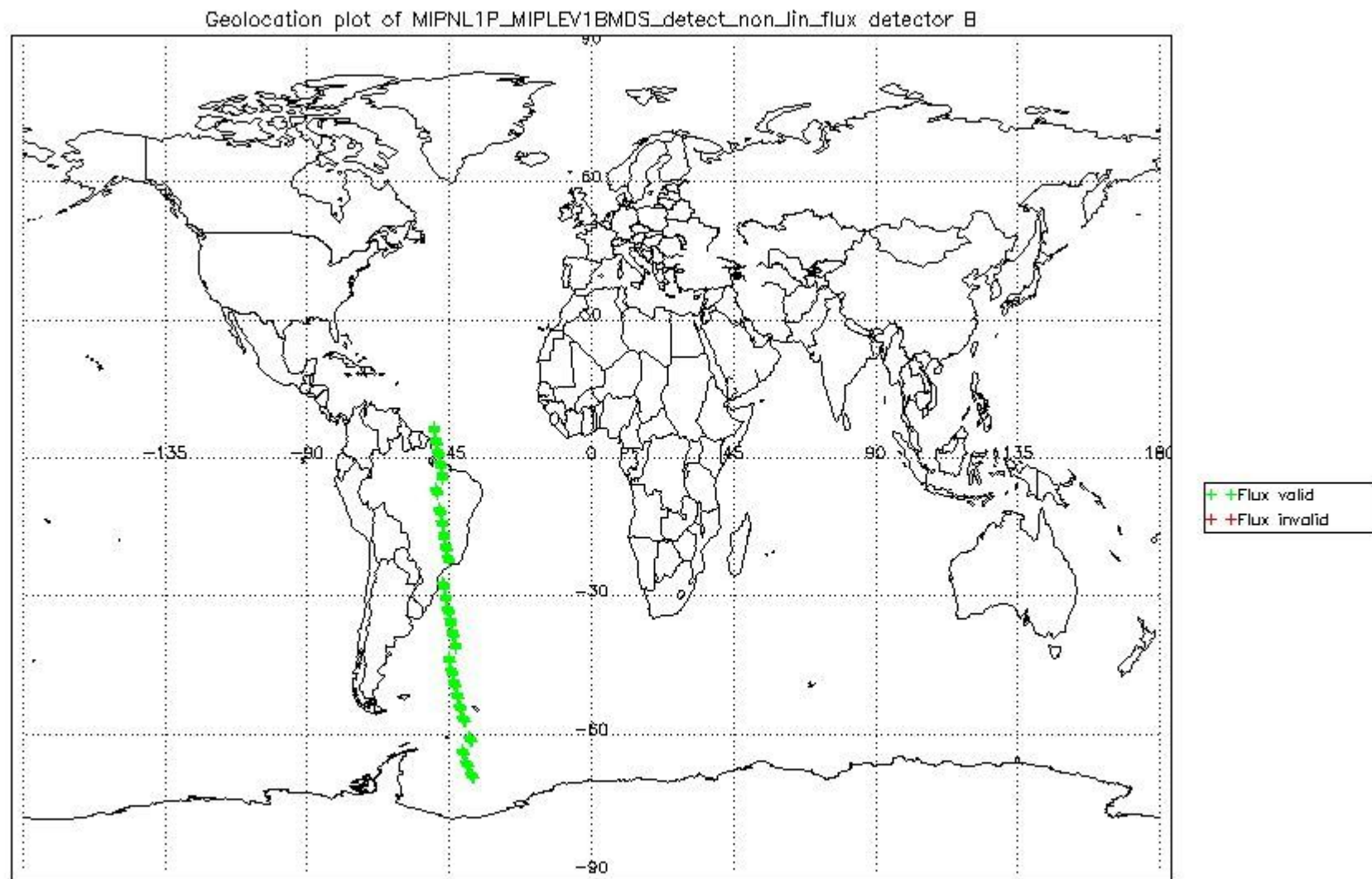


Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB



mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_45.PNG





mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_47.PNG

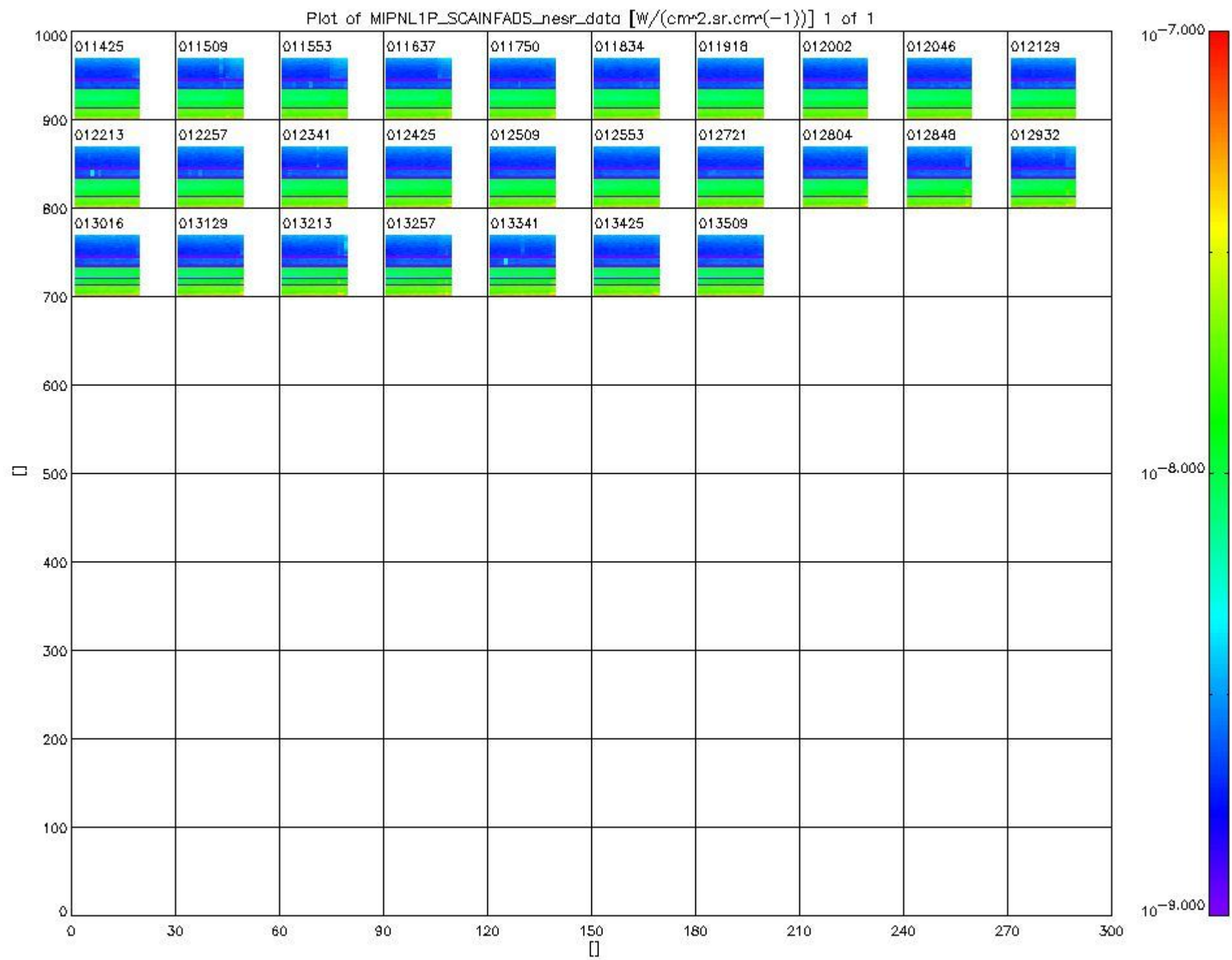
1.2.3 Scan information ADS

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.

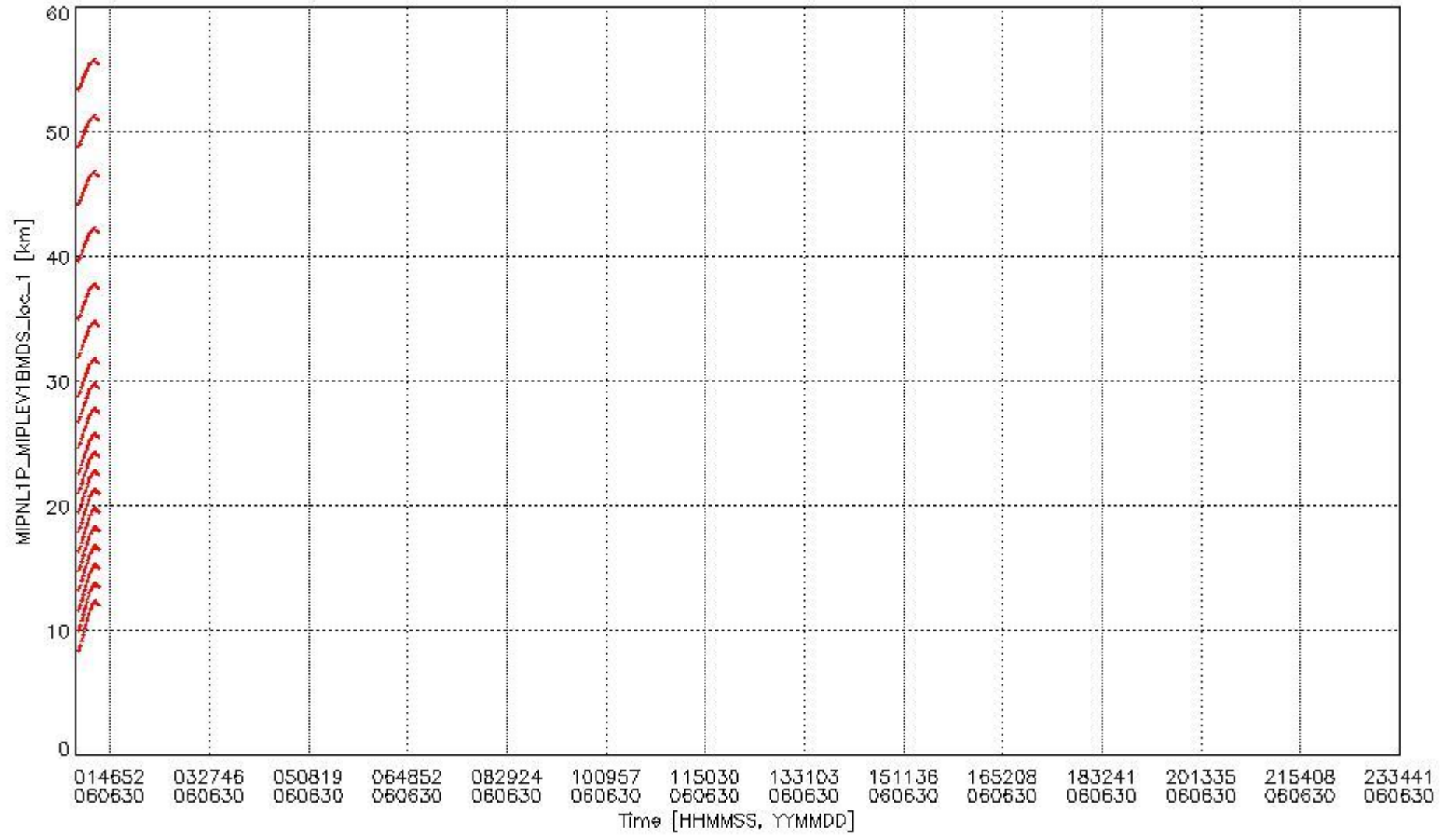


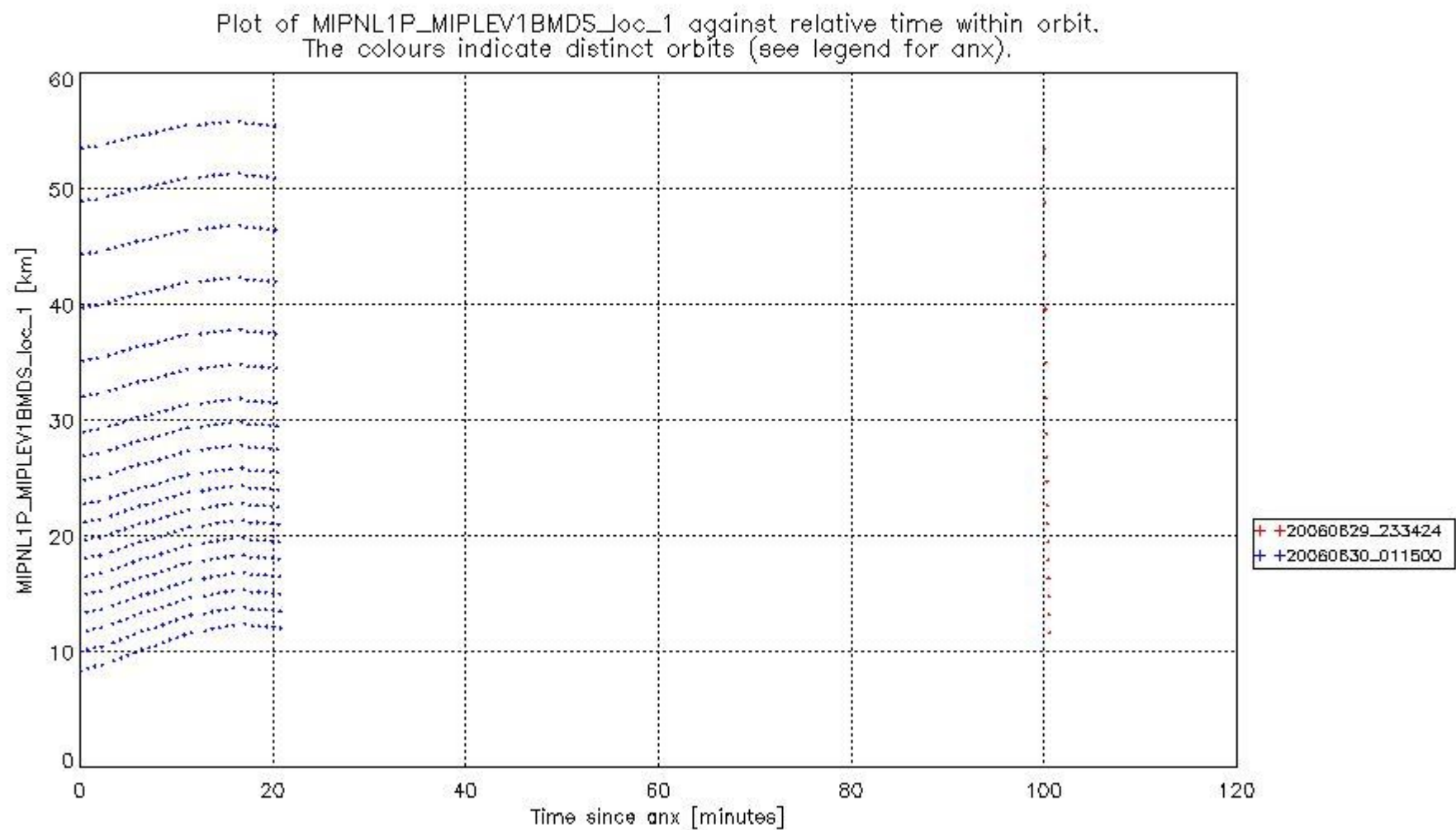
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_48.PNG

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_OFL_MIPAS_4_65_P_20060630_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)

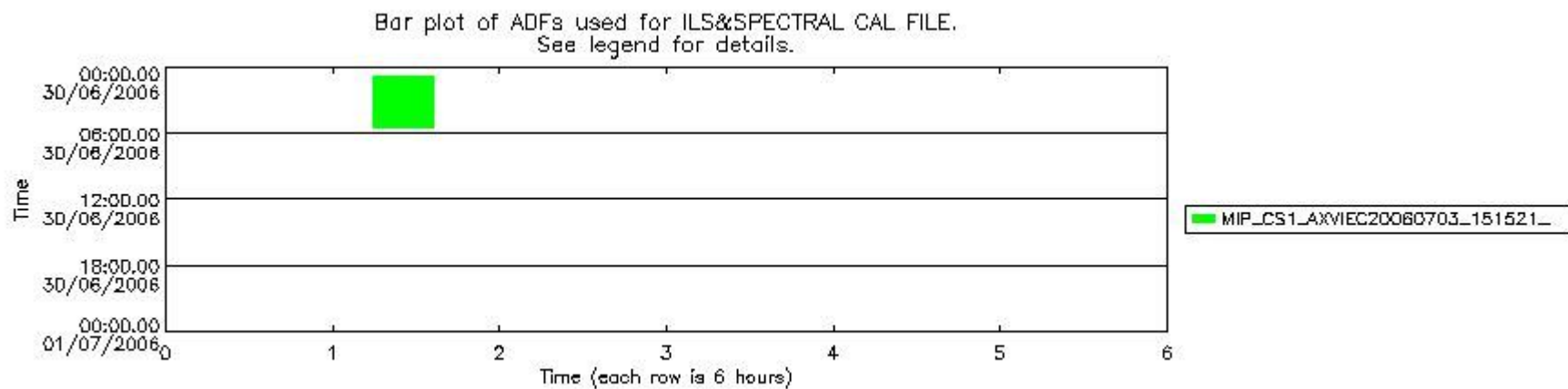
No cloud top plot, since the following information was not available MIPNL1P_MIPLEV1BMDS_band_a_mw_average_cloud_1_low_res

1.4 ADF monitoring

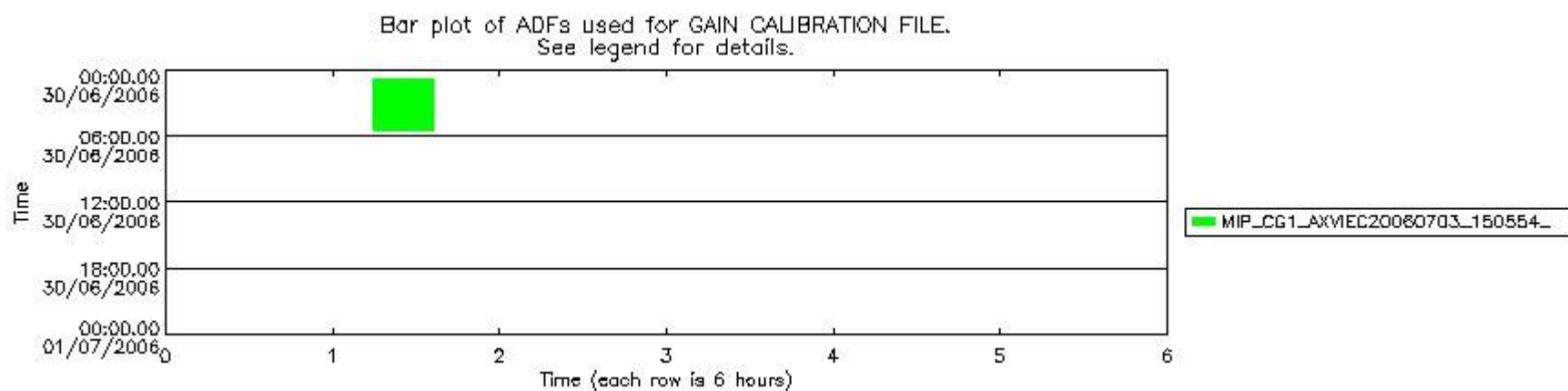
Number	ADF
0	AUX_FRO_AXVPDS20060702_234925_20060629_221000_20060702_005000
1	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
2	MIP_CG1_AXVIEC20060703_150554_20060627_000000_20110627_000000
3	MIP_CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
4	MIP_CO1_AXVIEC20060703_150036_20060627_000000_20110627_000000
5	MIP_CS1_AXVIEC20060703_151521_20060627_000000_20110627_000000

6	MIP_MW1_AXVIEC20050627_094928_20040809_000000_20090809_000000
7	MIP_PS1_AXVIEC20050627_100609_20040809_000000_20090809_000000

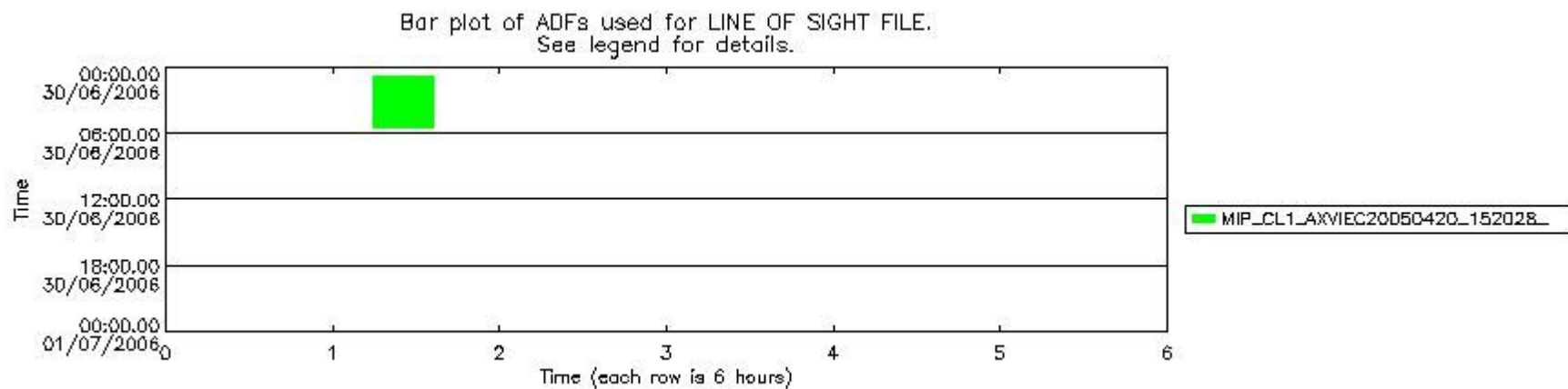
Number	Product name	#CS1	#CG1	#CL1	#CA1	#CO1	#MW1	#PS1	#FPO
0	MIP_NL_1PPDPA20060630_011425_000007262049_00045_22644_0190.N1	5	2	3	1	4	6	7	0
1	MIP_NL_1PPDPA20060630_012721_000005062049_00046_22645_0193.N1	5	2	3	1	4	6	7	0



mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_51.PNG

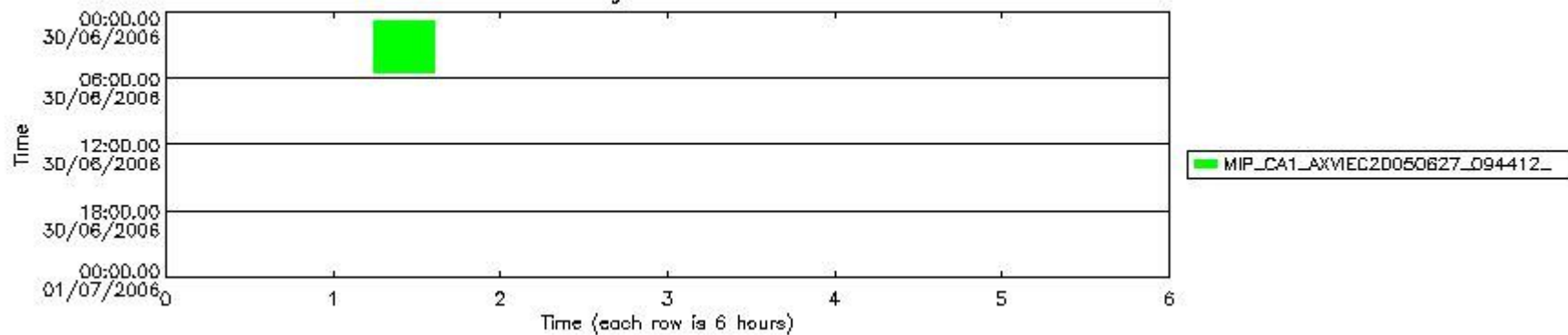


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_52.PNG



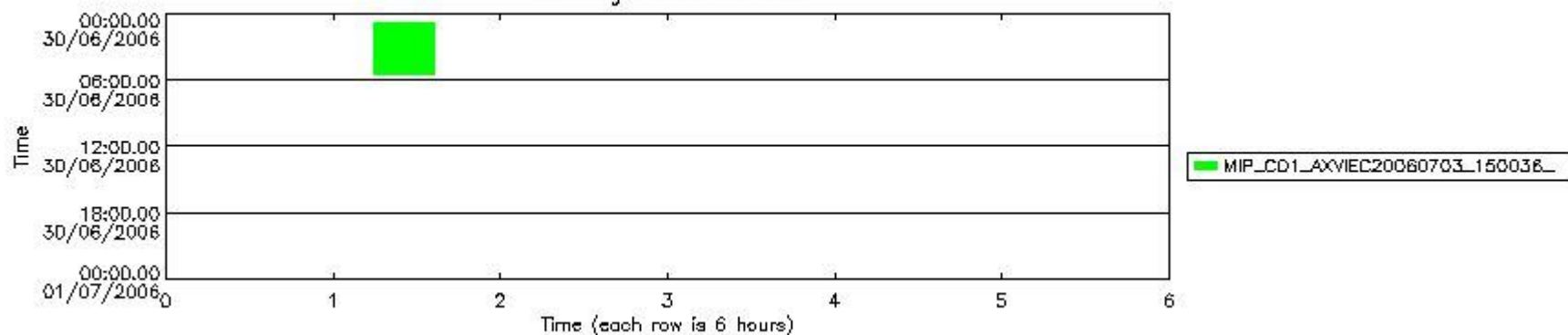
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_53.PNG

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



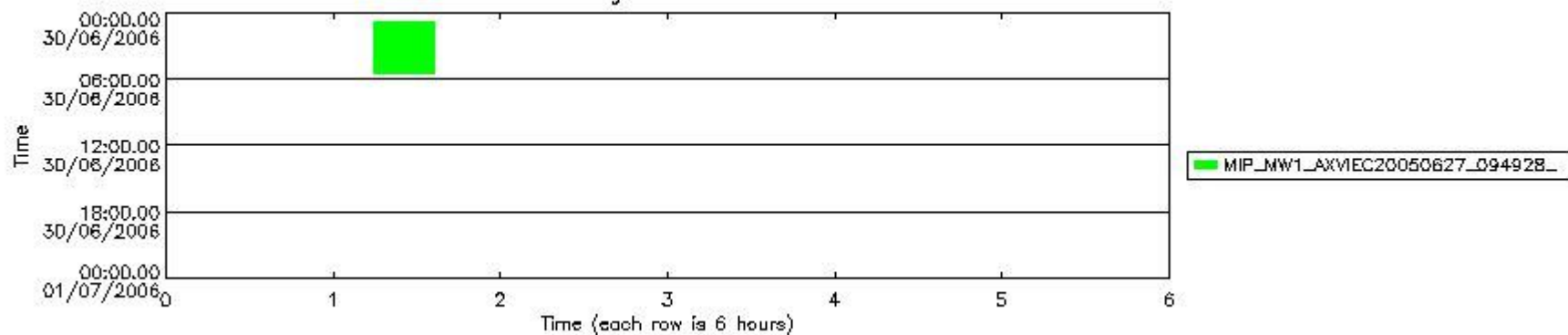
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_54.PNG

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



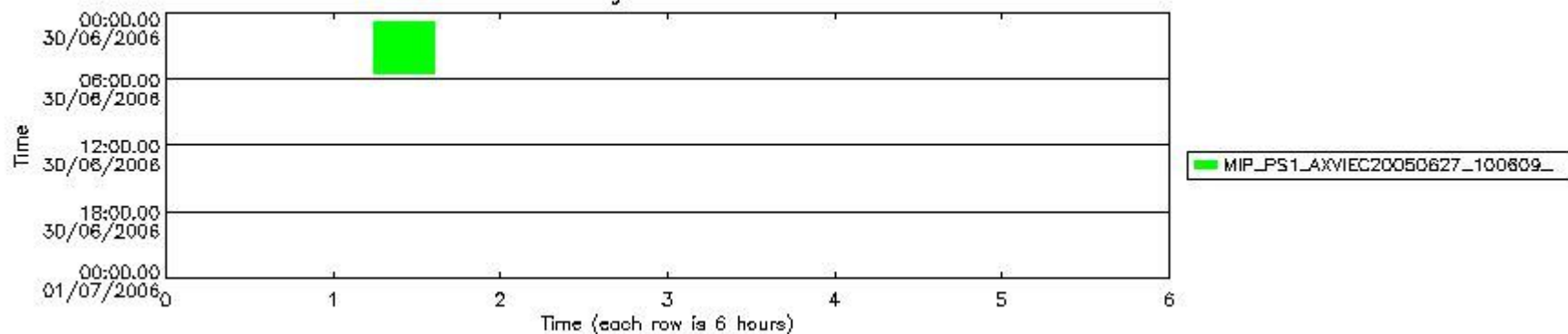
mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_55.PNG

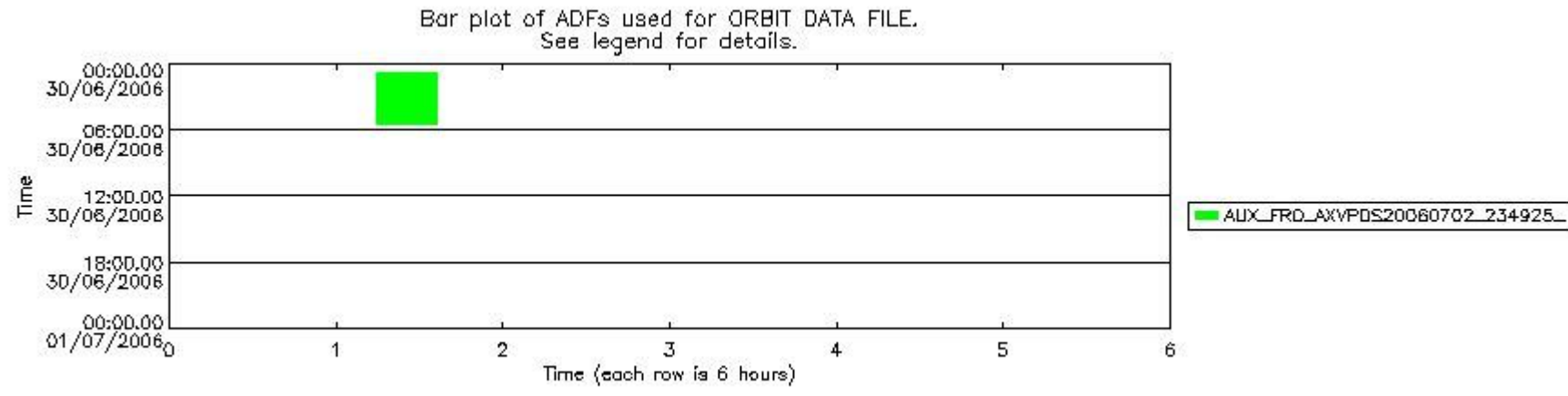
Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.

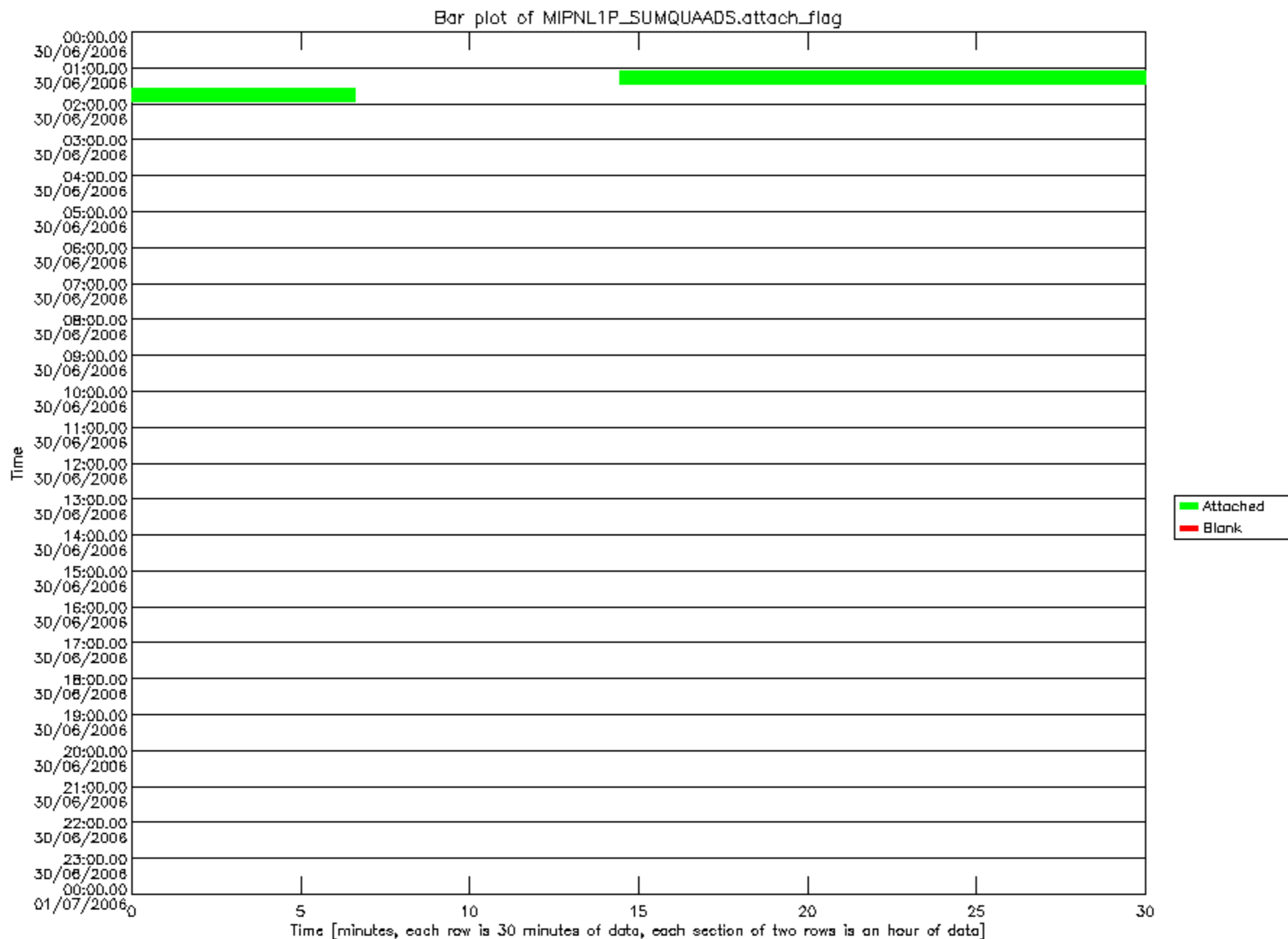


mipas_daily_report_level1_OFL_MIPAS_4_65_P_20060630_56.PNG

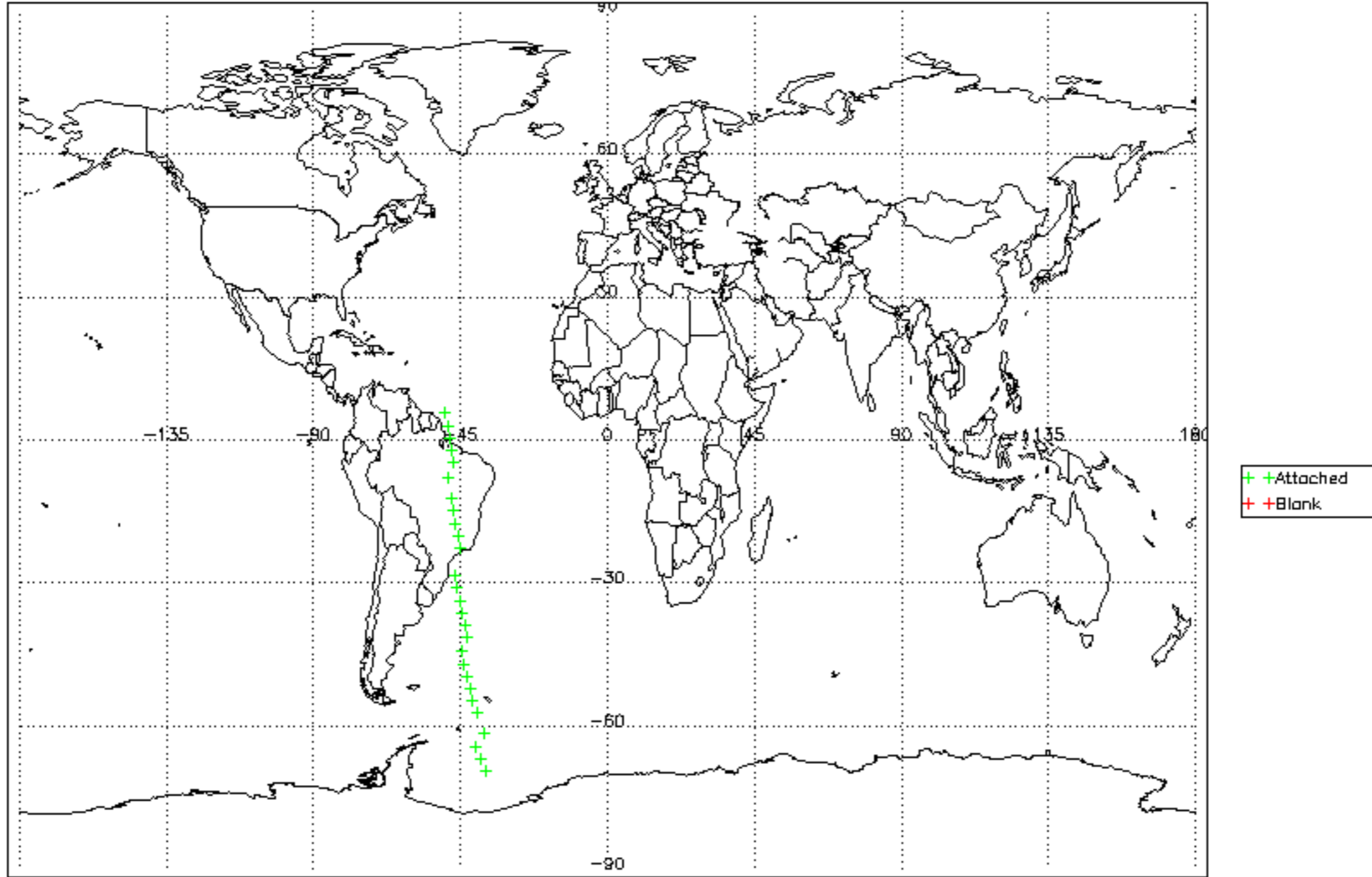
Bar plot of ADFs used for PROCESS PARAMETERS FILE.
See legend for details.

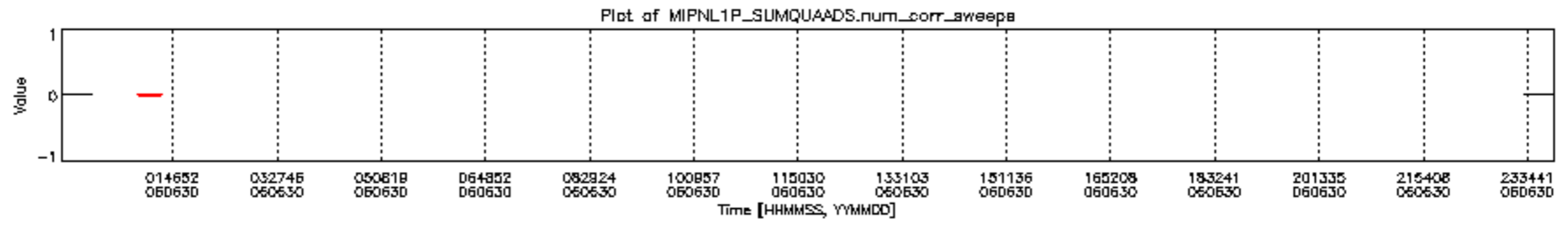




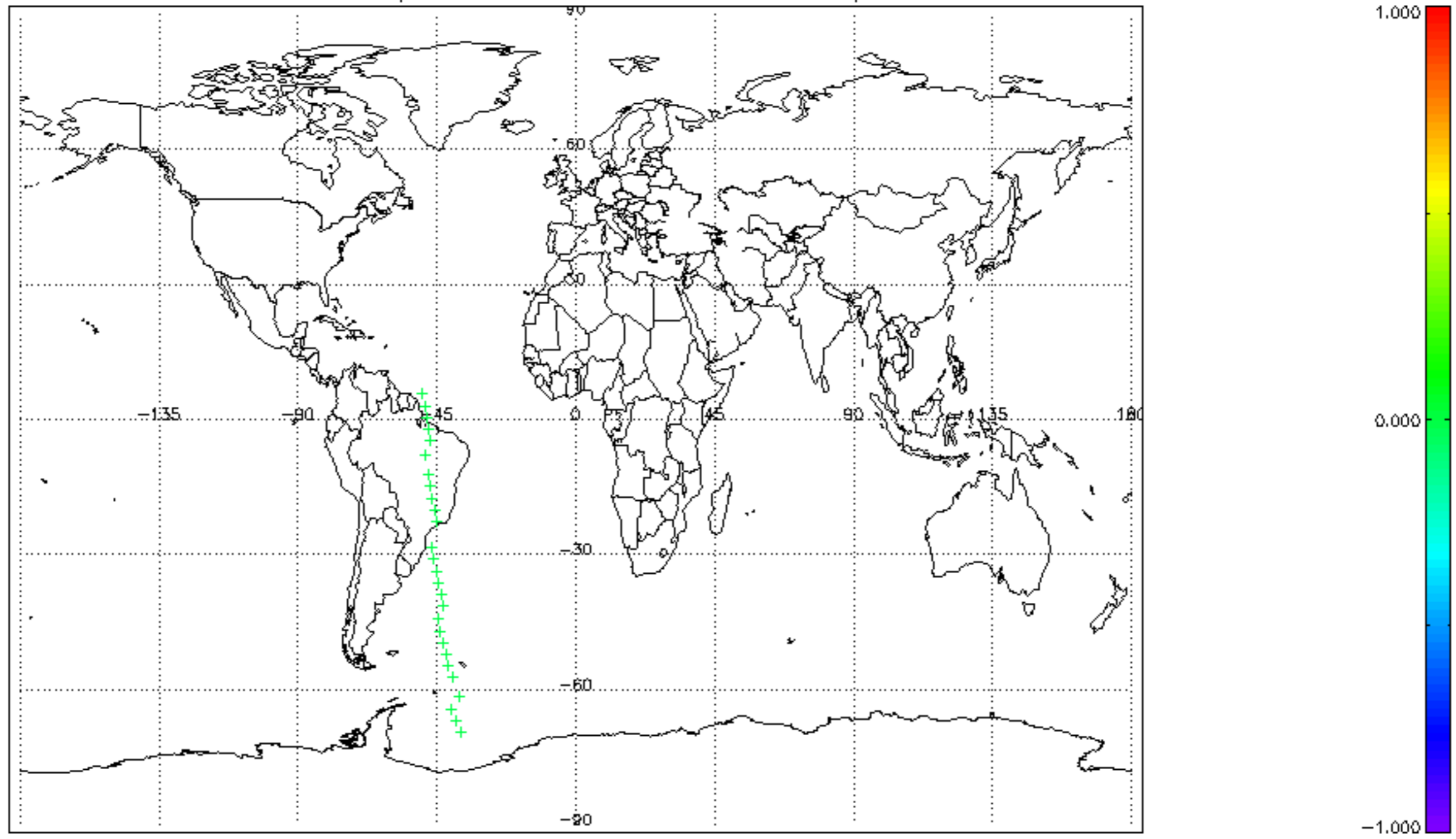


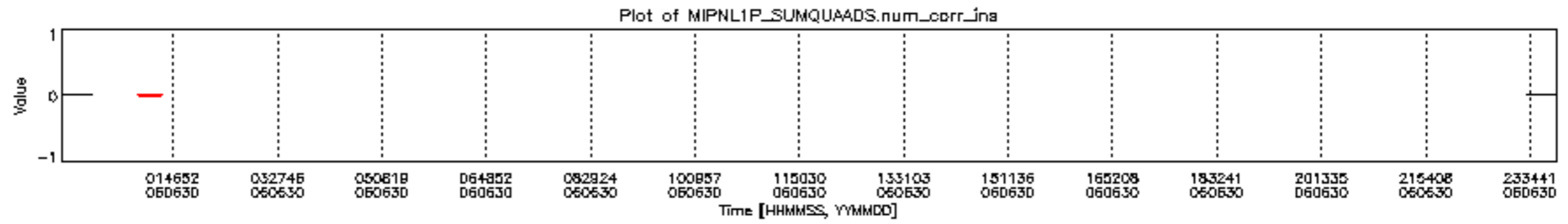
Geolocation plot of MIPNL1P_SUMQUAADS.attach_flag



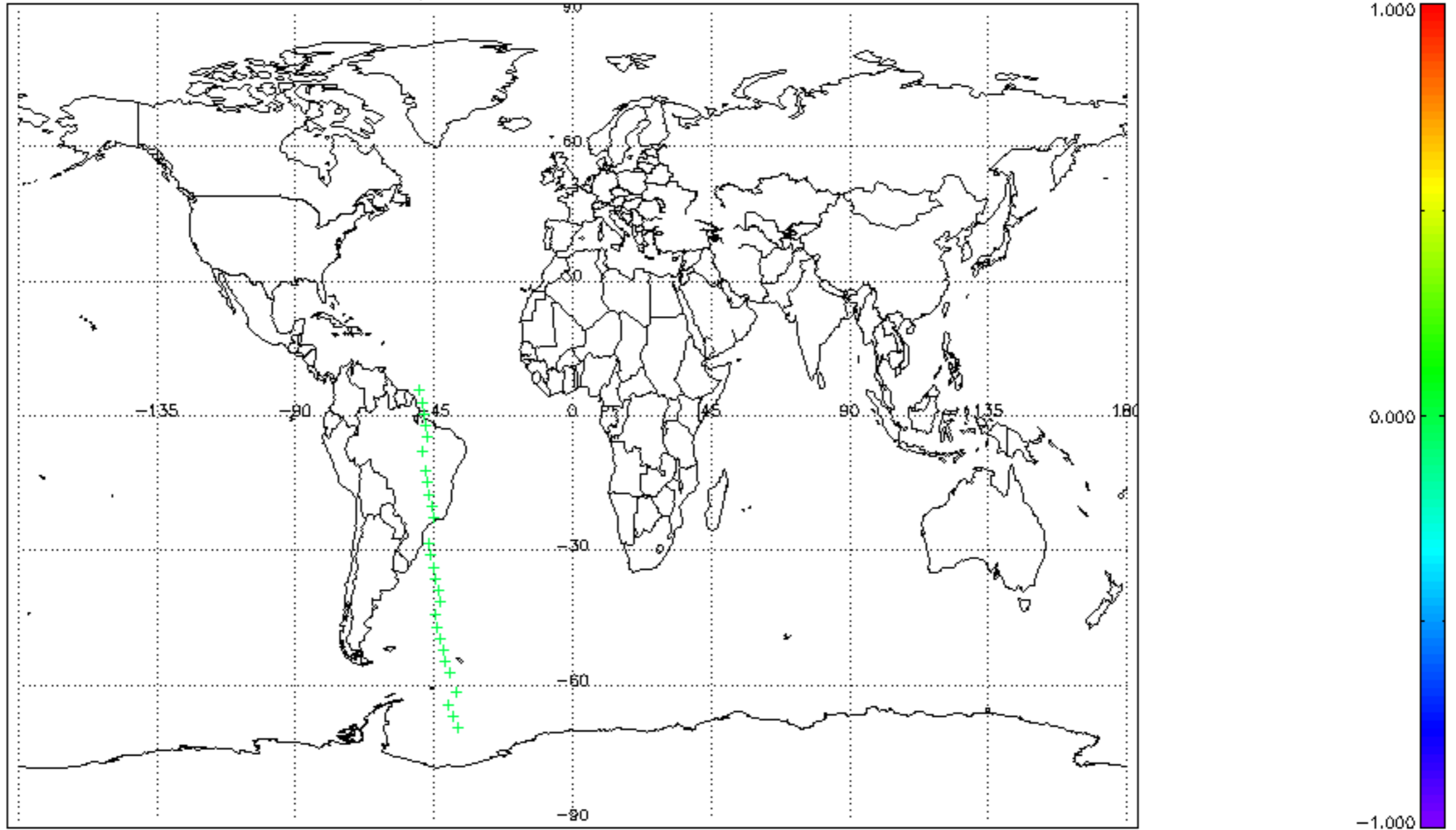


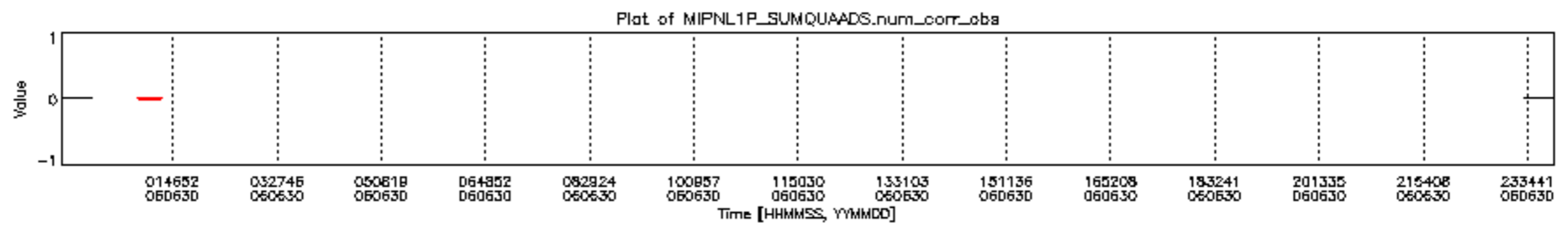
Geolocation plot of MIPNL1P_SUMQUADS.num_corr_sweeps



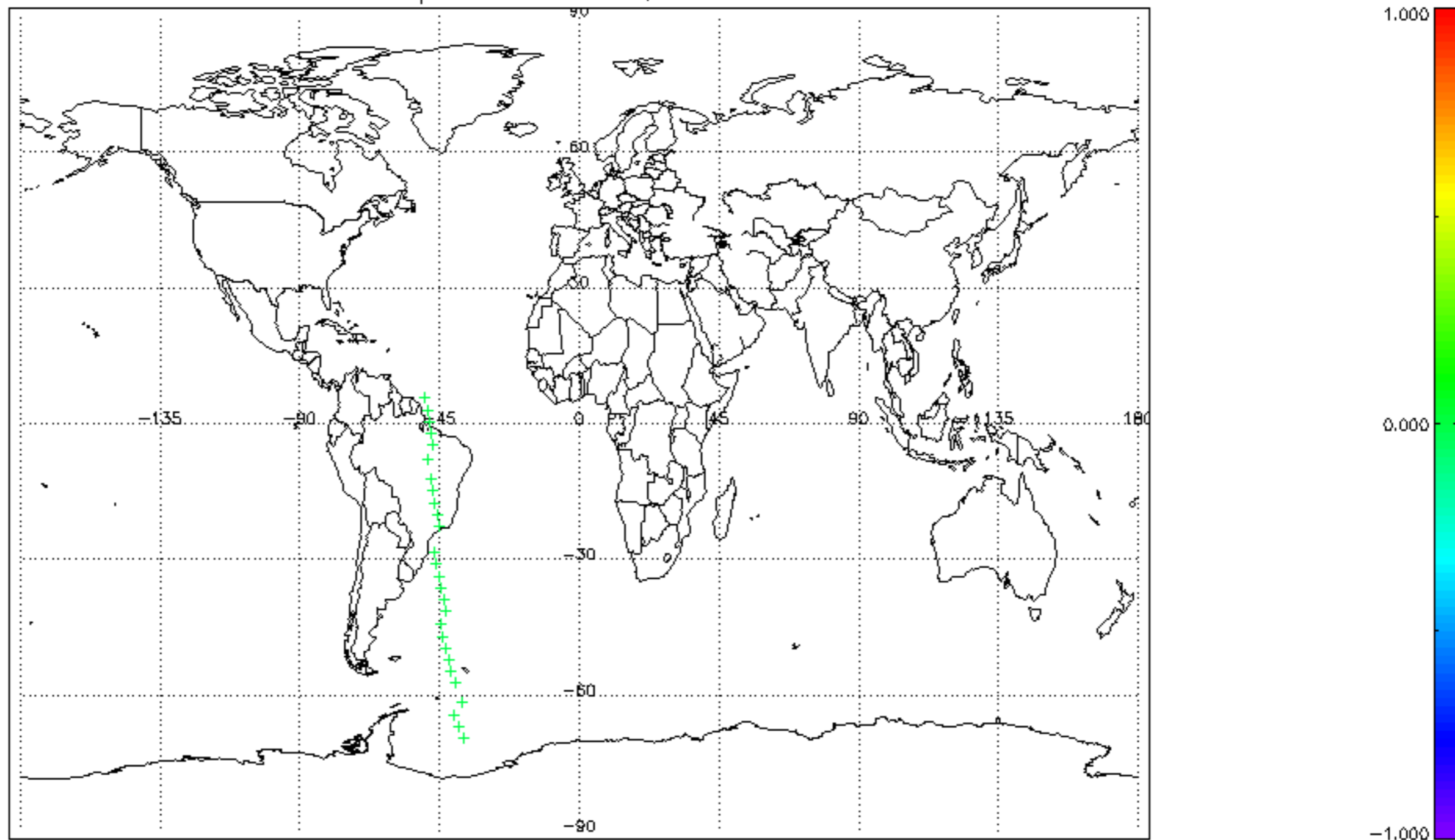


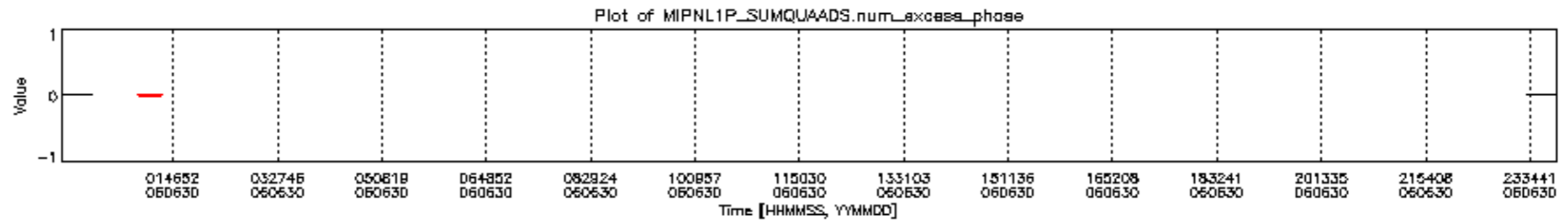
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_ins



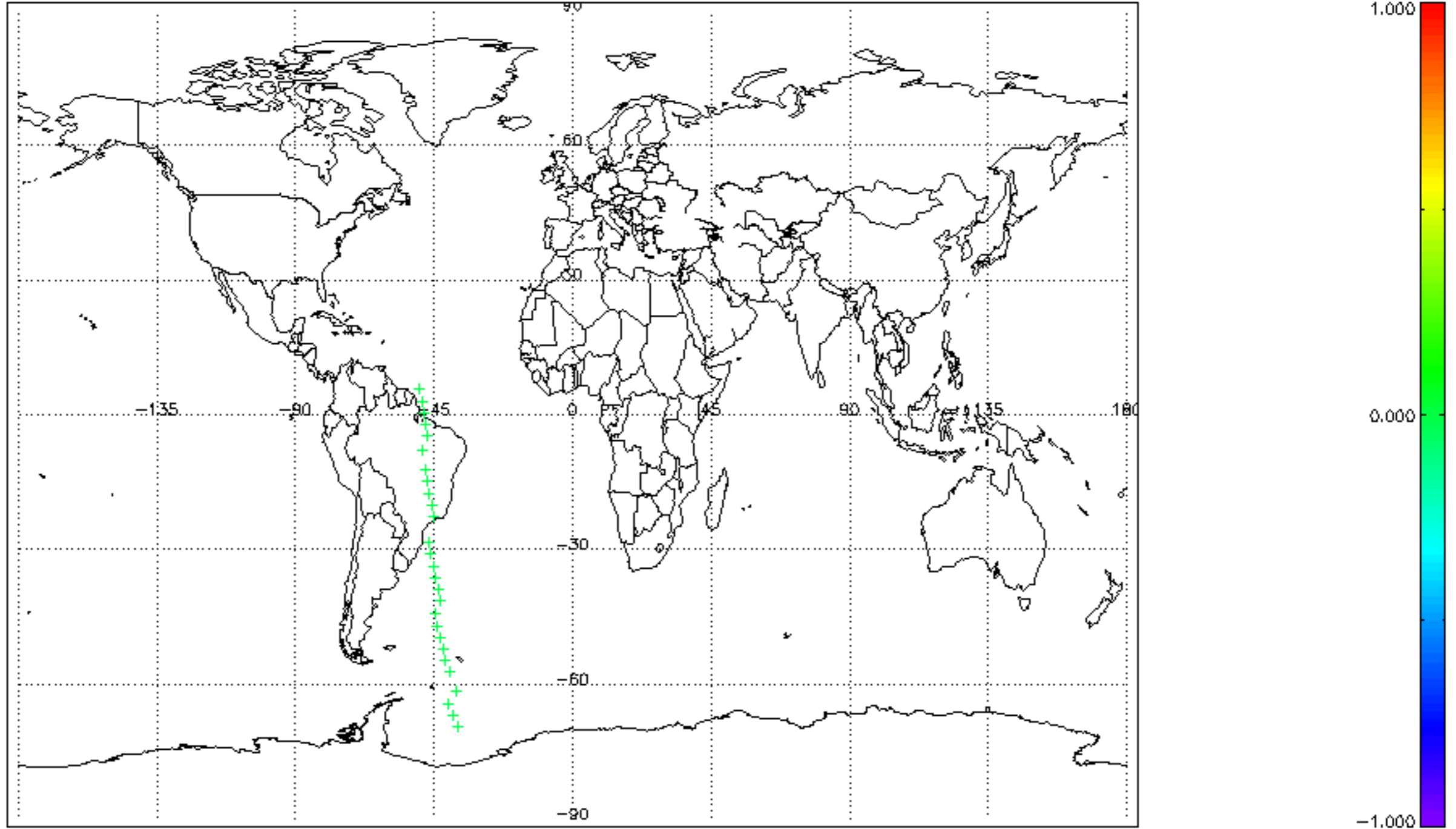


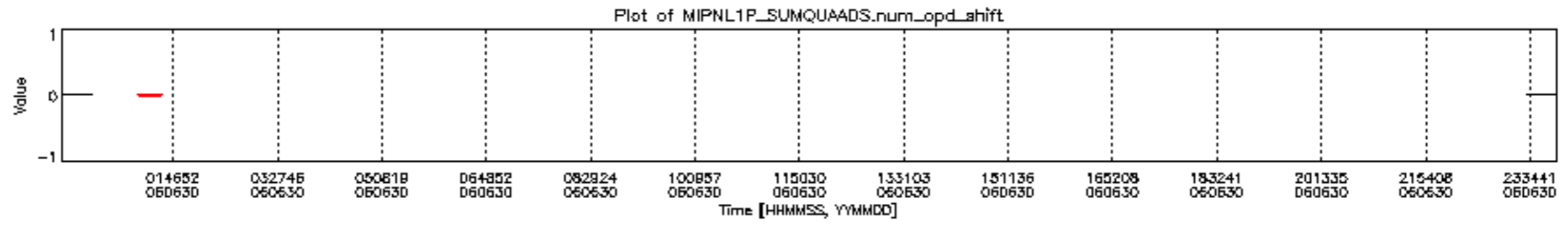
Geolocation plot of MIPNL1P_SUMQUAADS.num_corr_obs



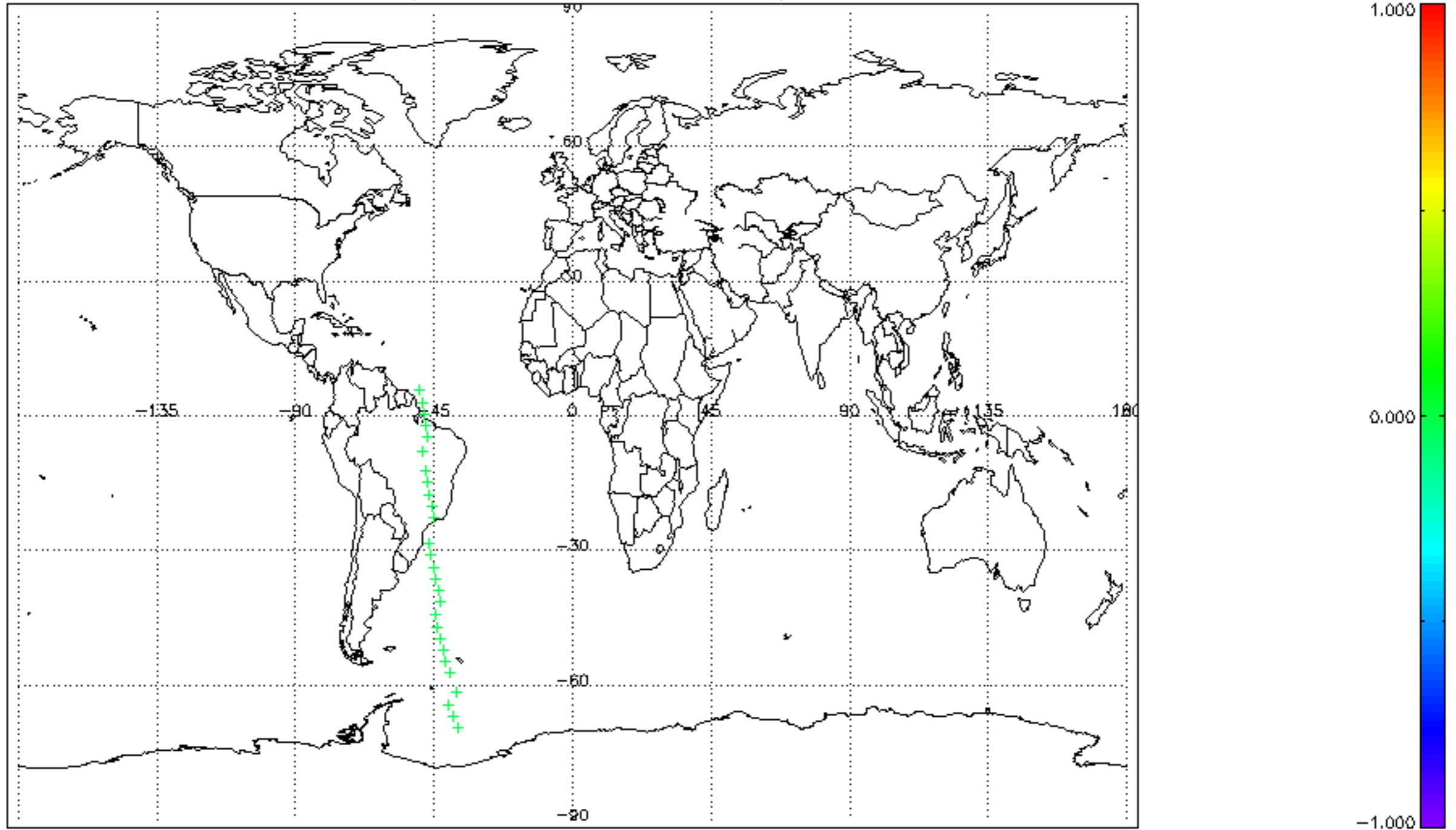


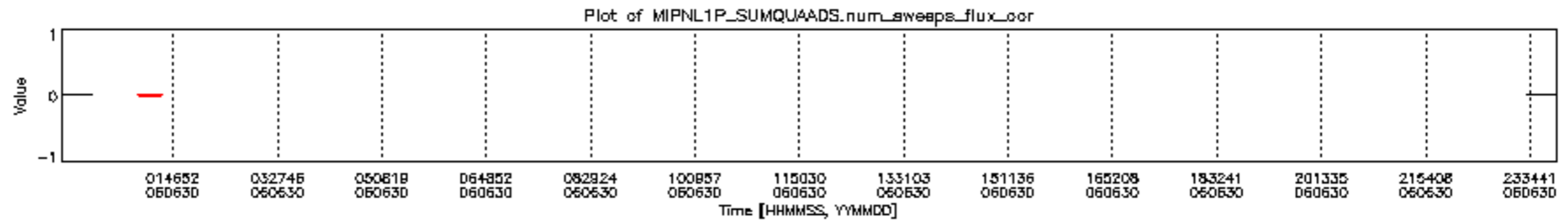
Geolocation plot of MIPNL1P_SUMQUAADS.num_excess_phase



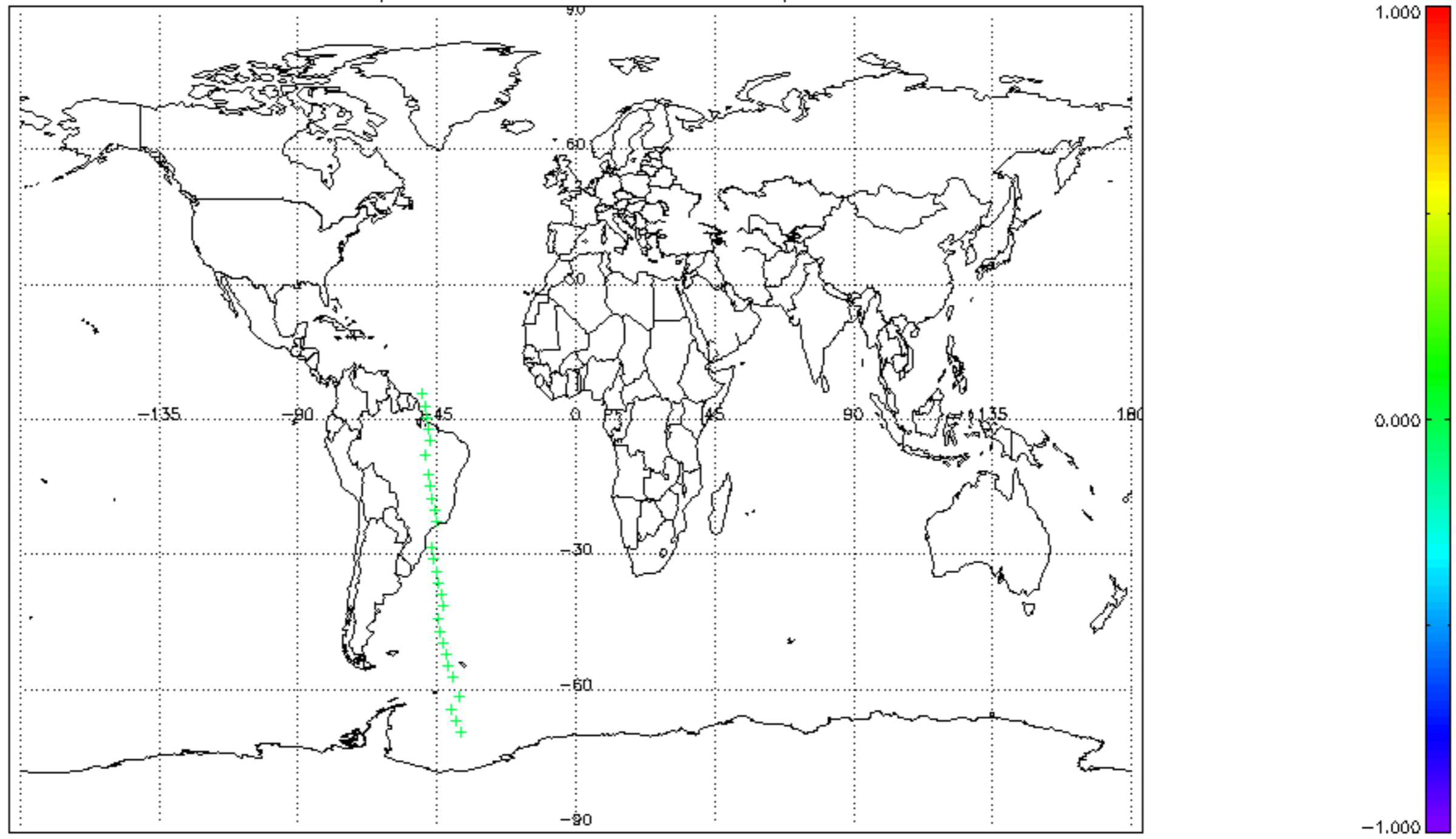


Geolocation plot of MIPNL1P_SUMQUAADS.num_opd_shift

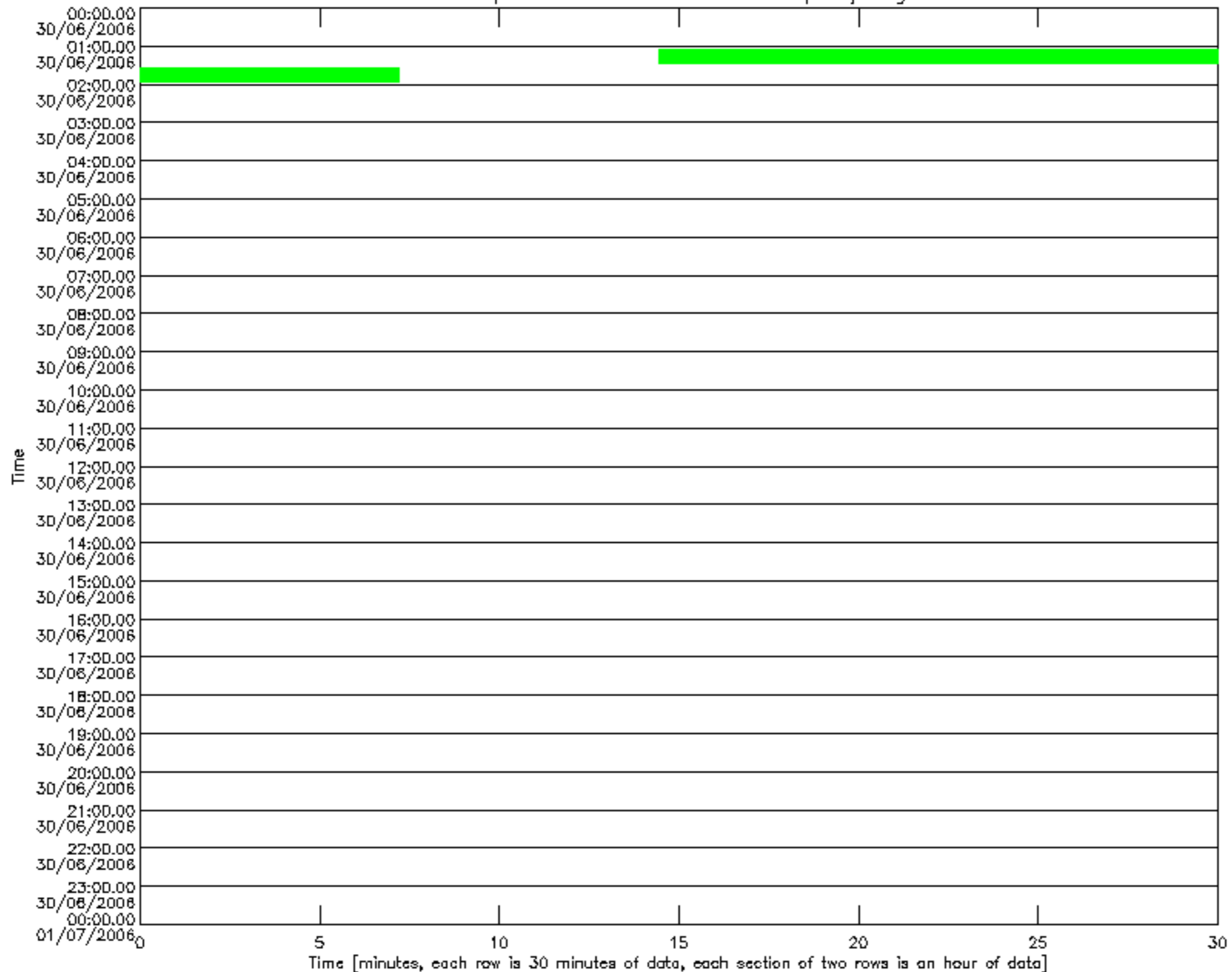




Geolocation plot of MIPNL1P_SUMQUAADS.num_sweeps_flux_oor

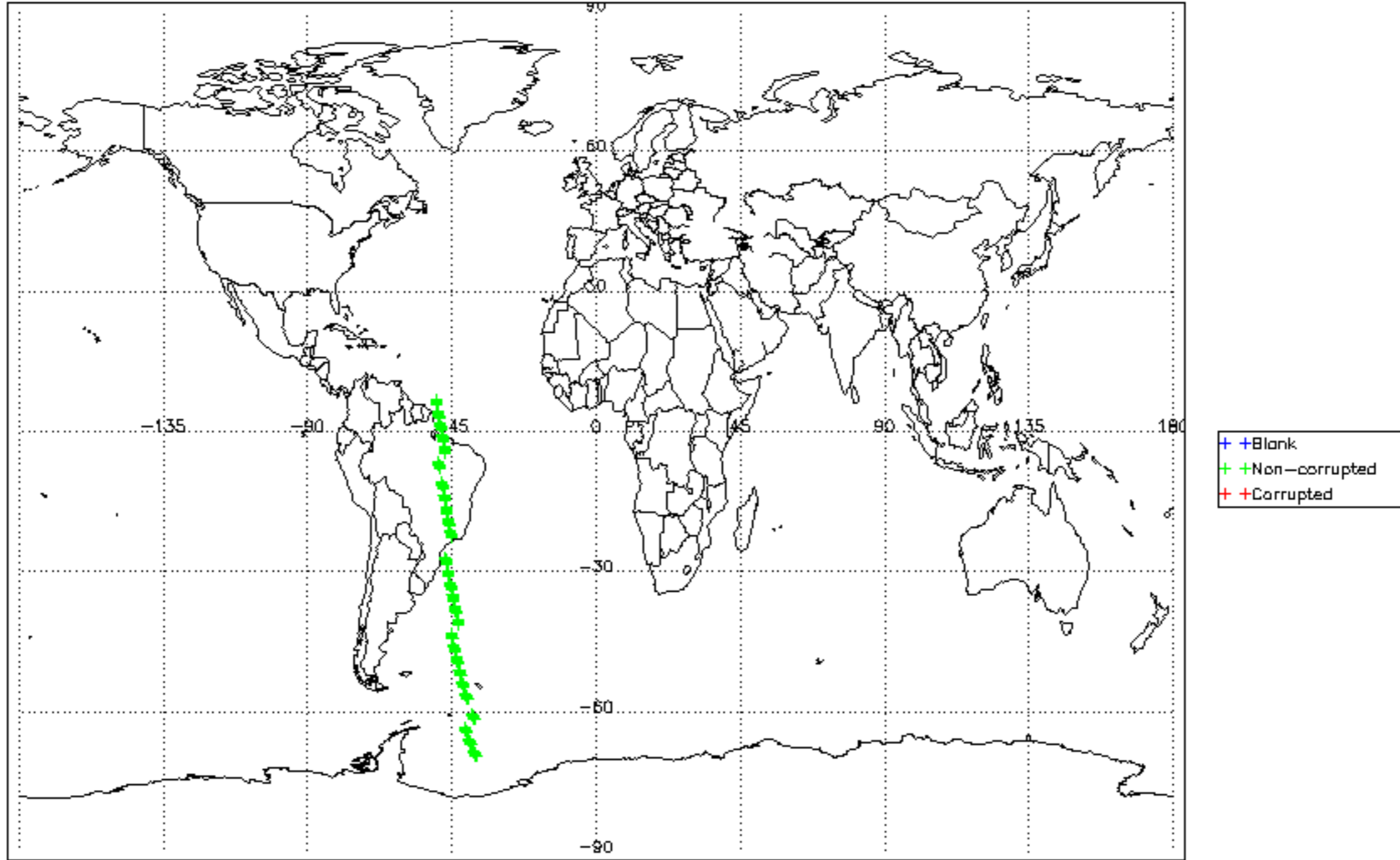


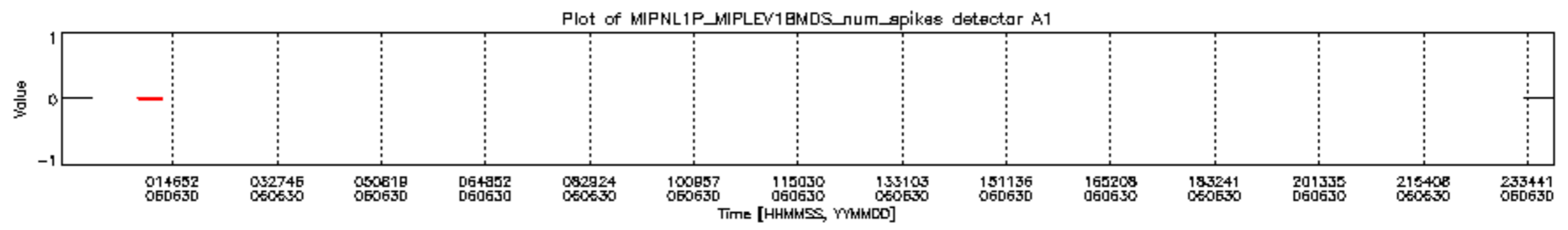
Bar plot of MIPNL1P_MIPLEV1BMDS_quality_flag



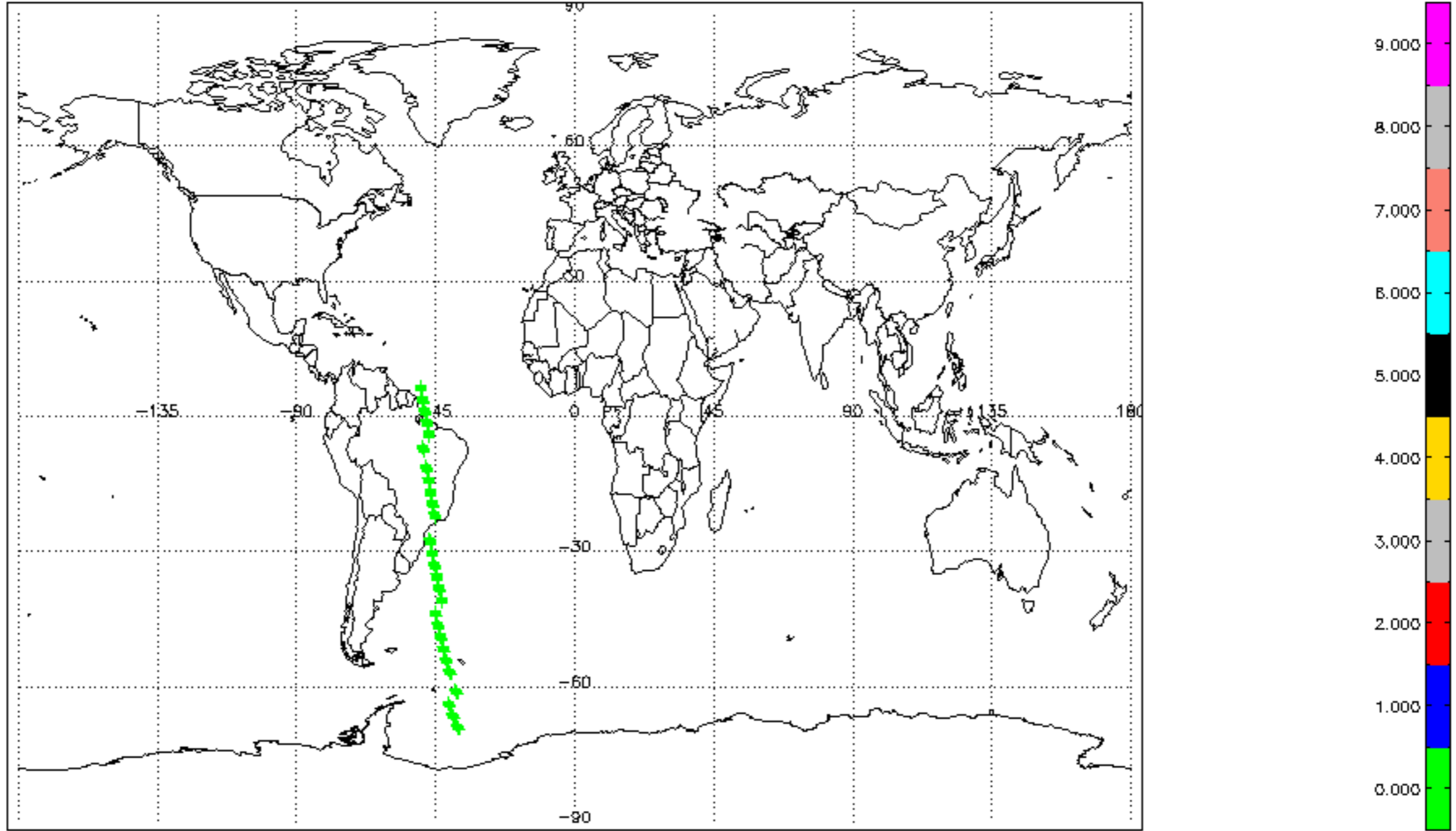
■ Blank
■ Non-corrupted
■ Corrupted

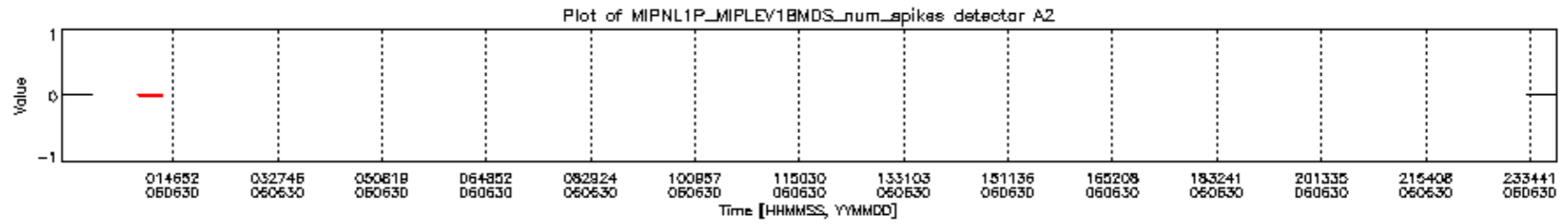
Geolocation plot of MIPNL1P_MIPLEV1BMDS_quality_flag



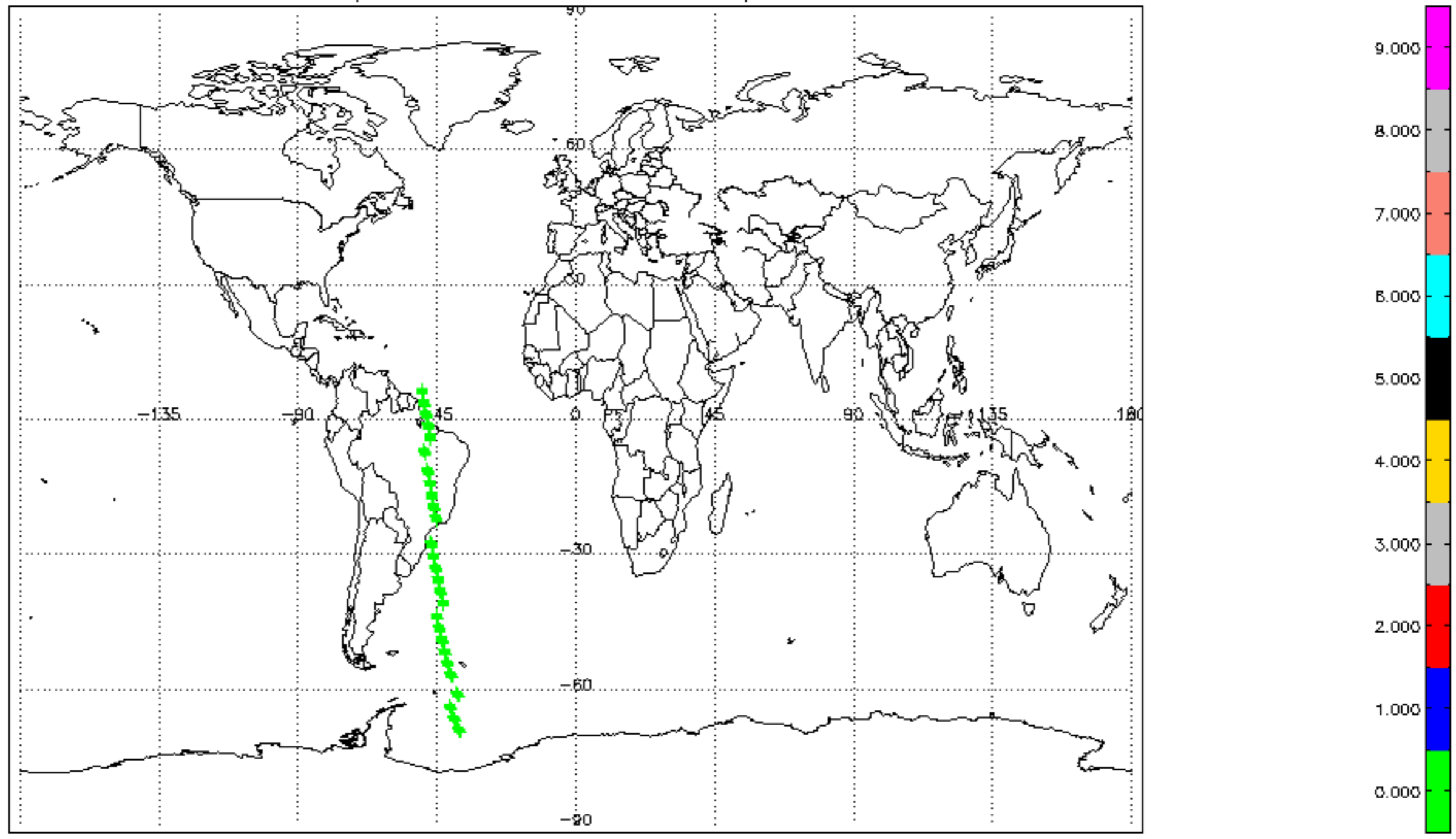


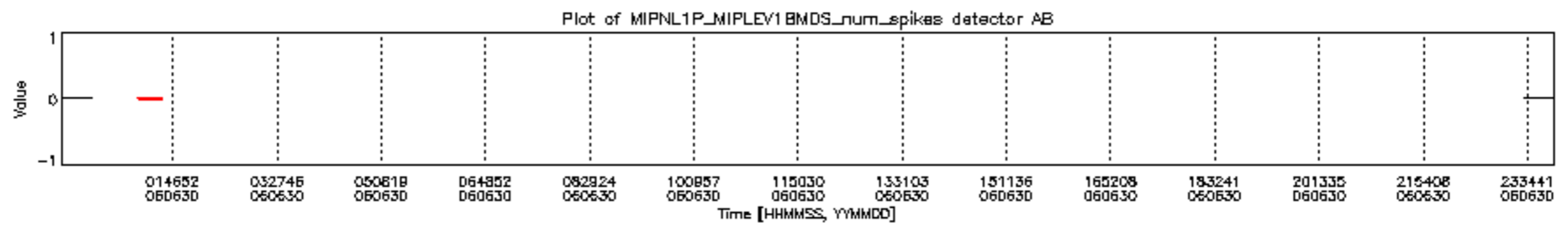
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A1



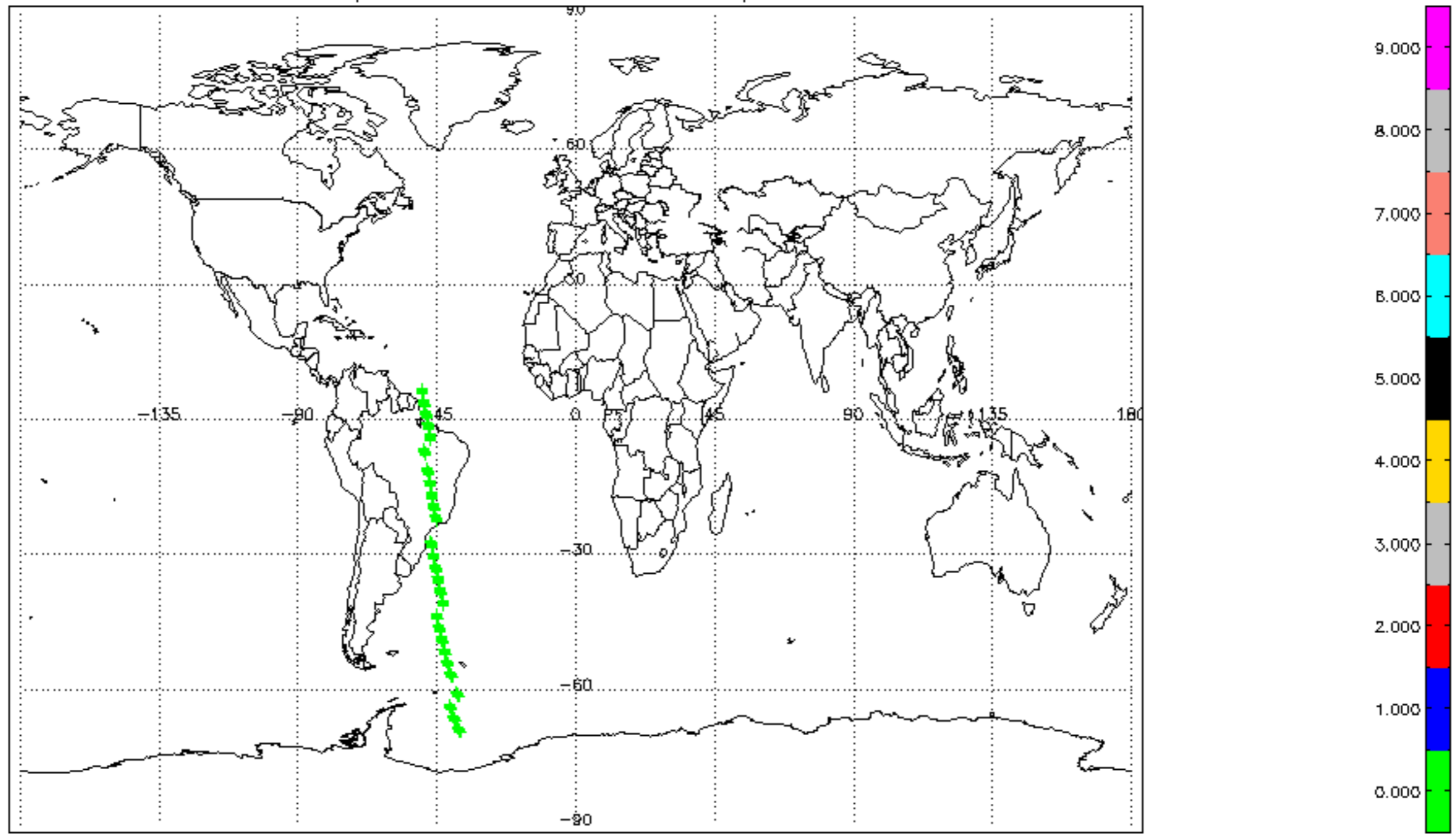


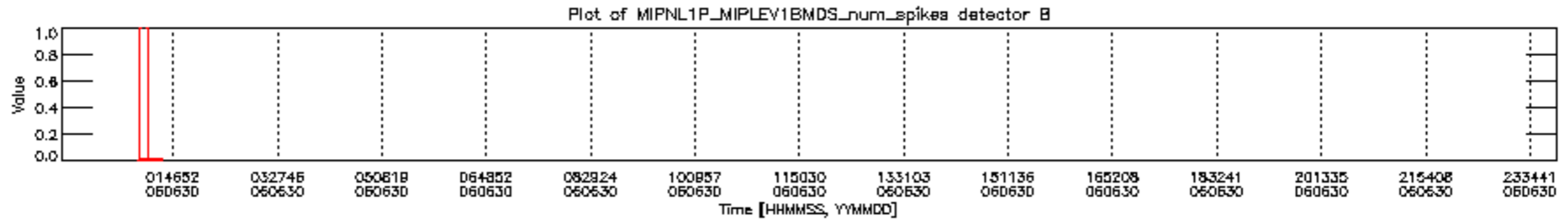
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector A2



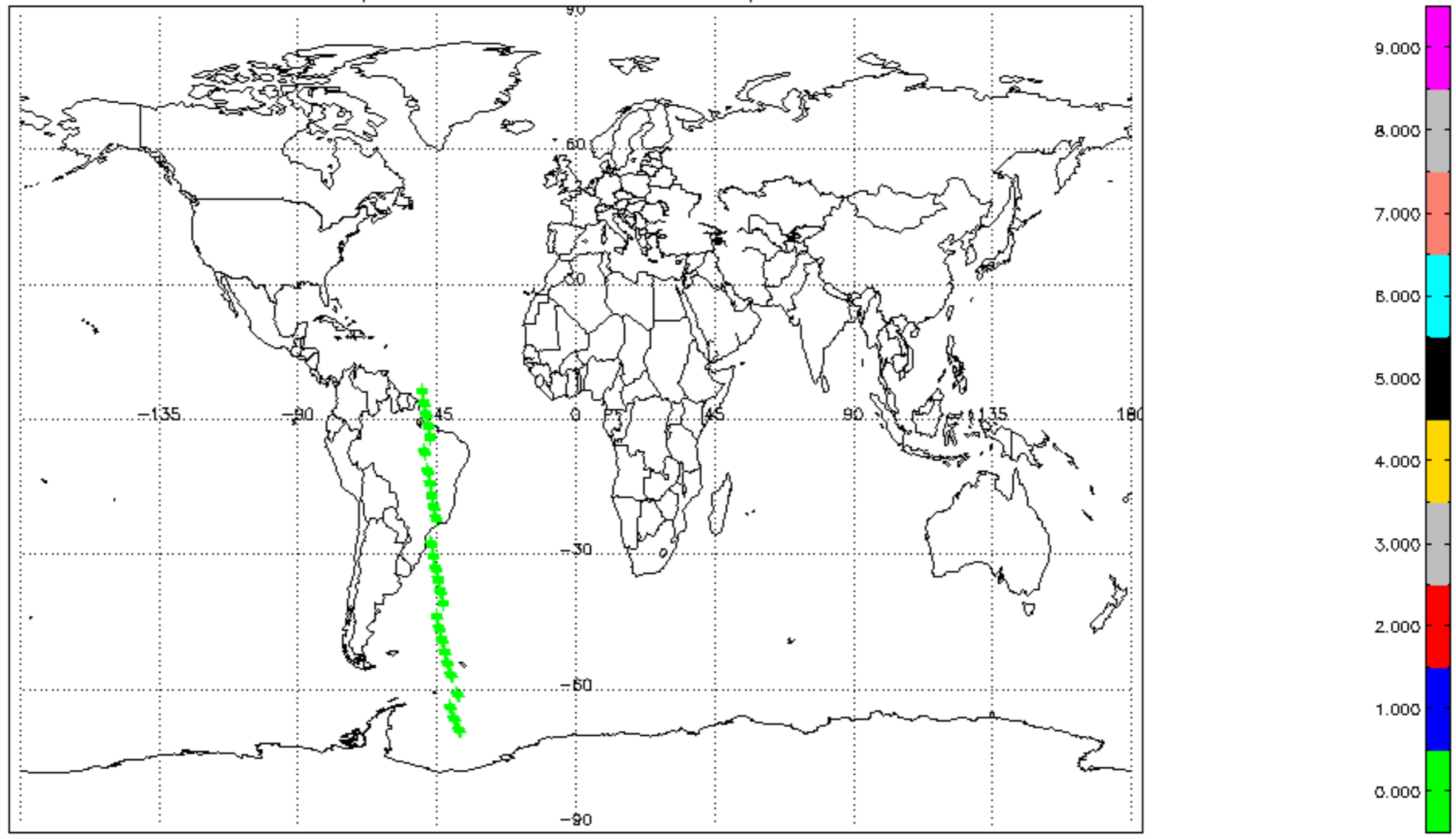


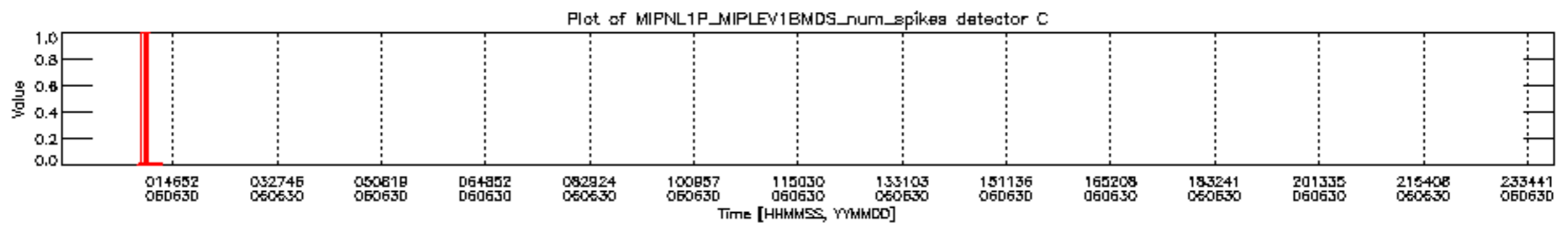
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector AB



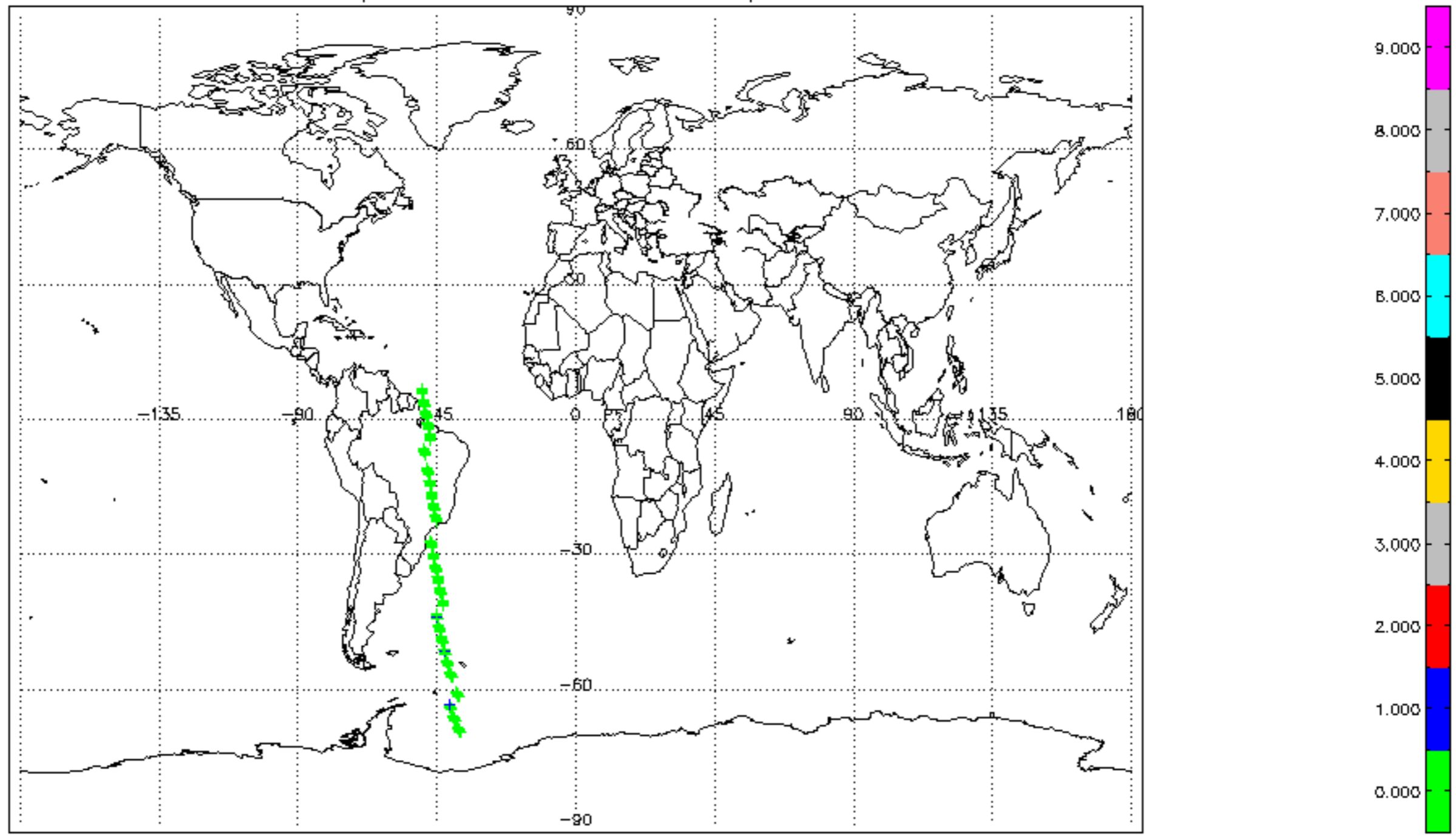


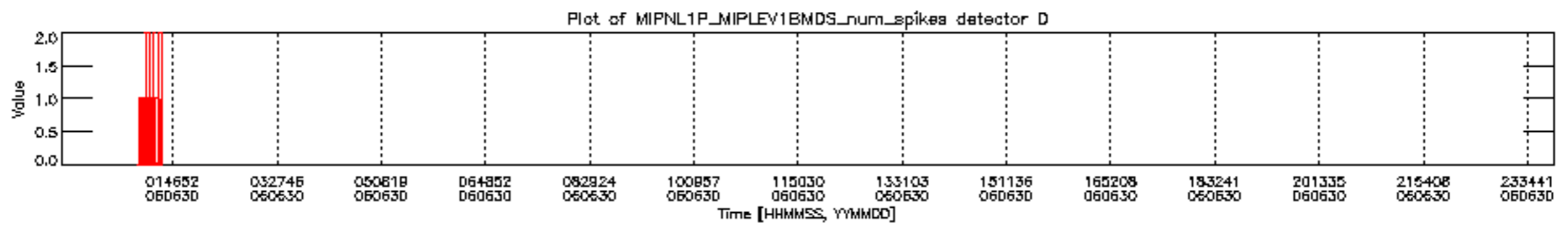
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector B



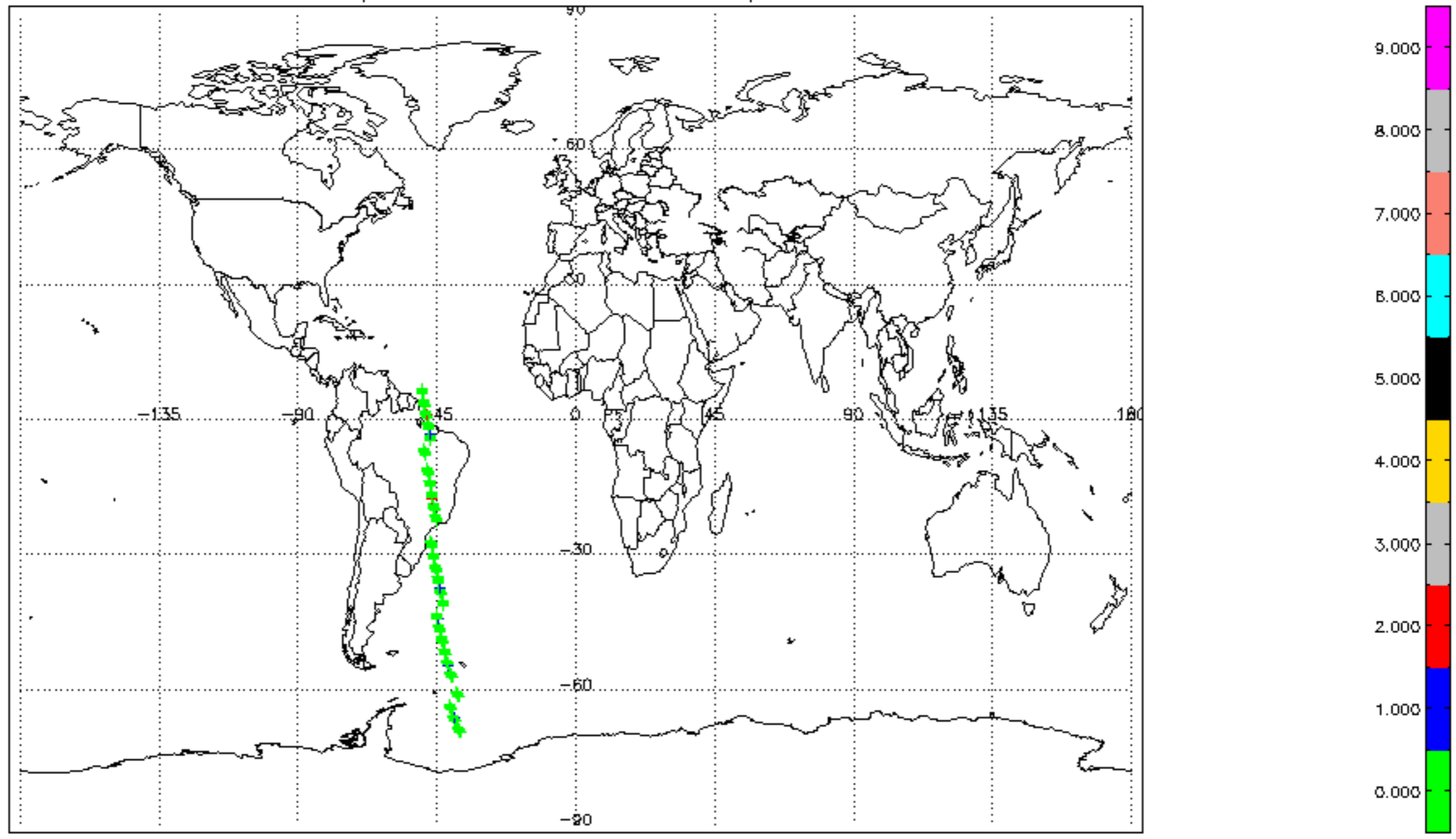


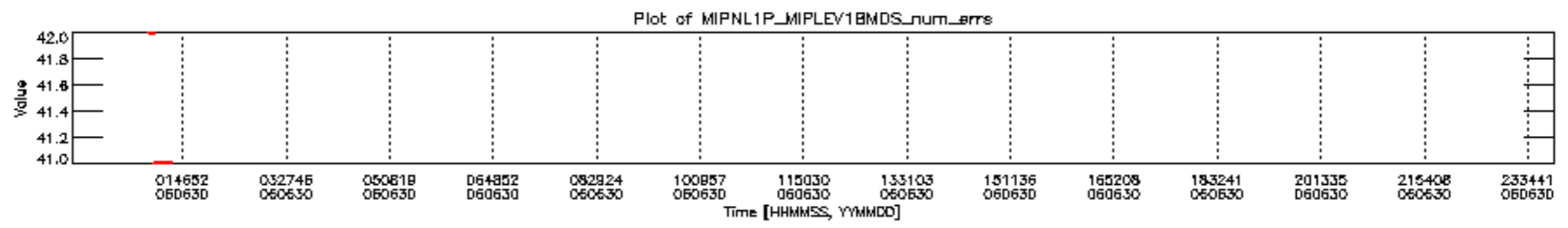
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector C



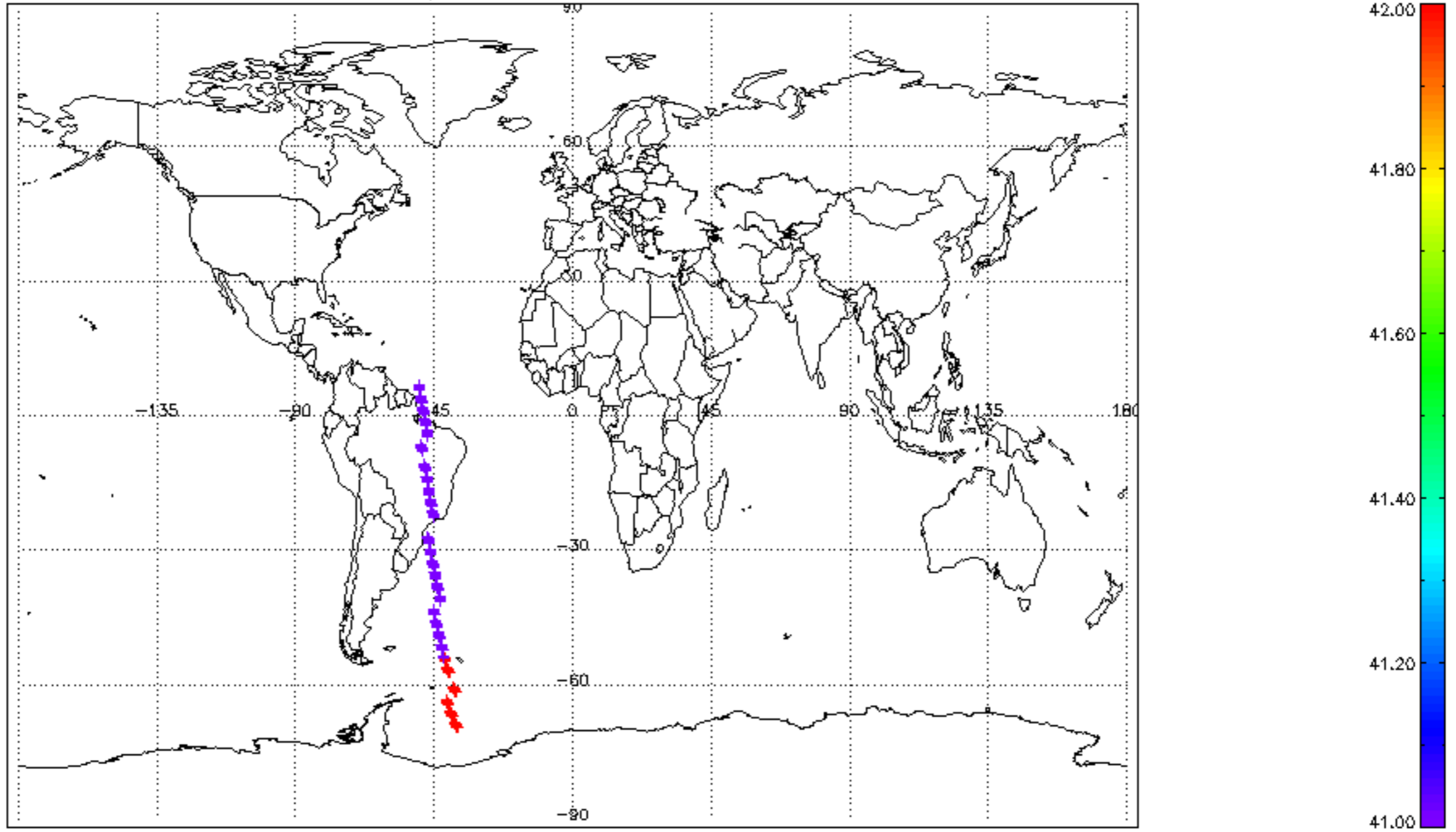


Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_spikes detector D

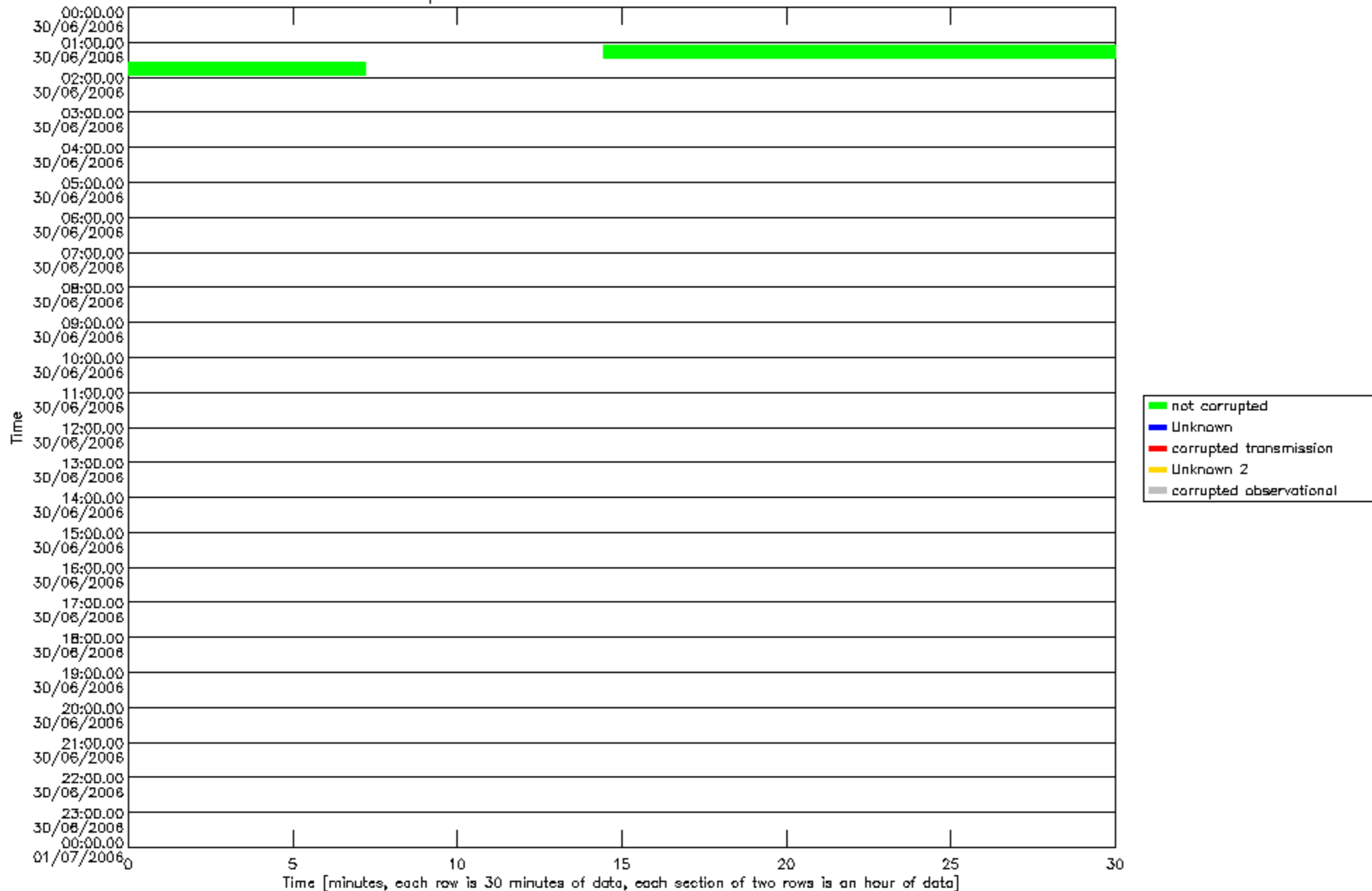




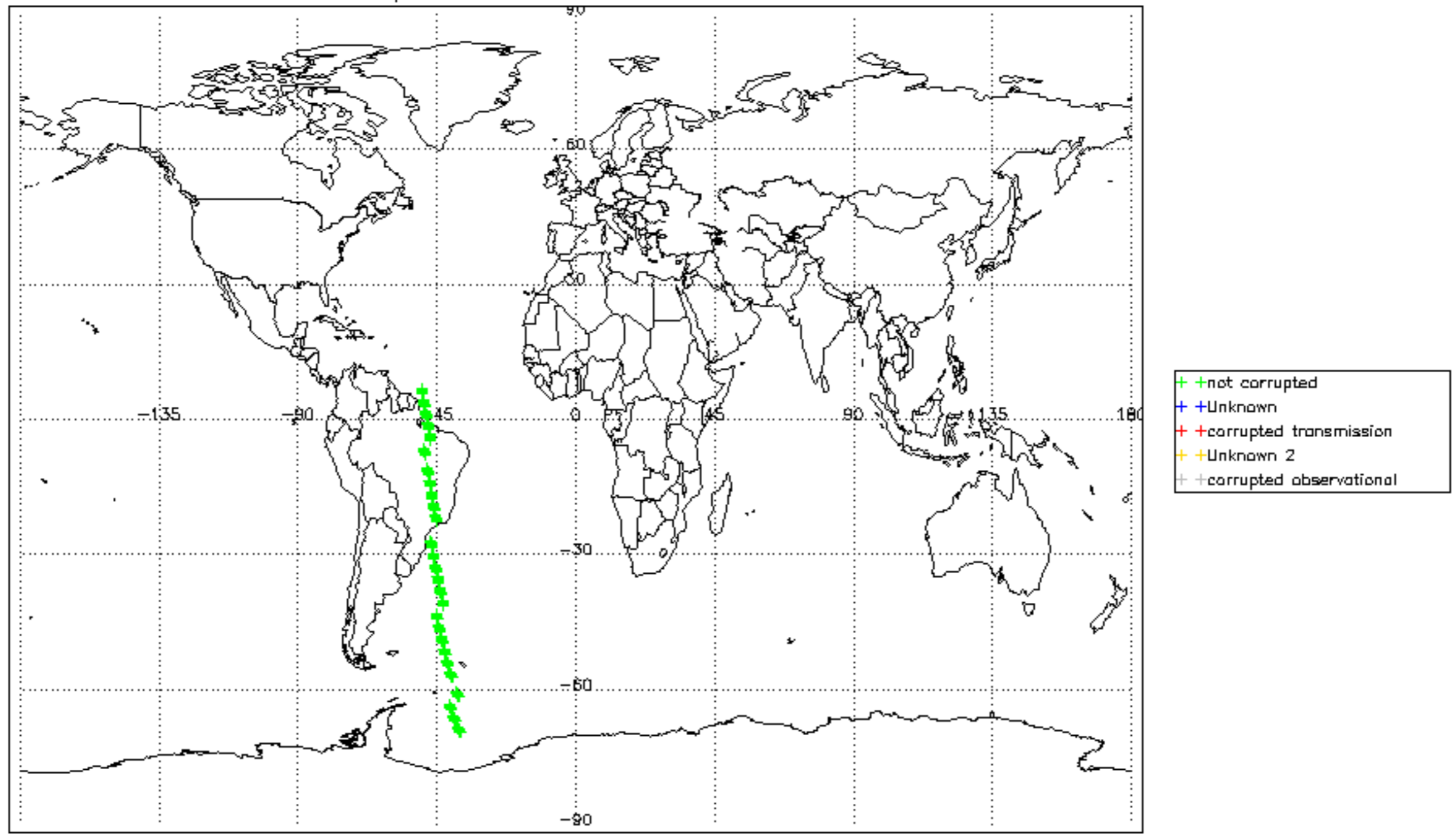
Geolocation plot of MIPNL1P_MIPLEV1BMDS_num_errs



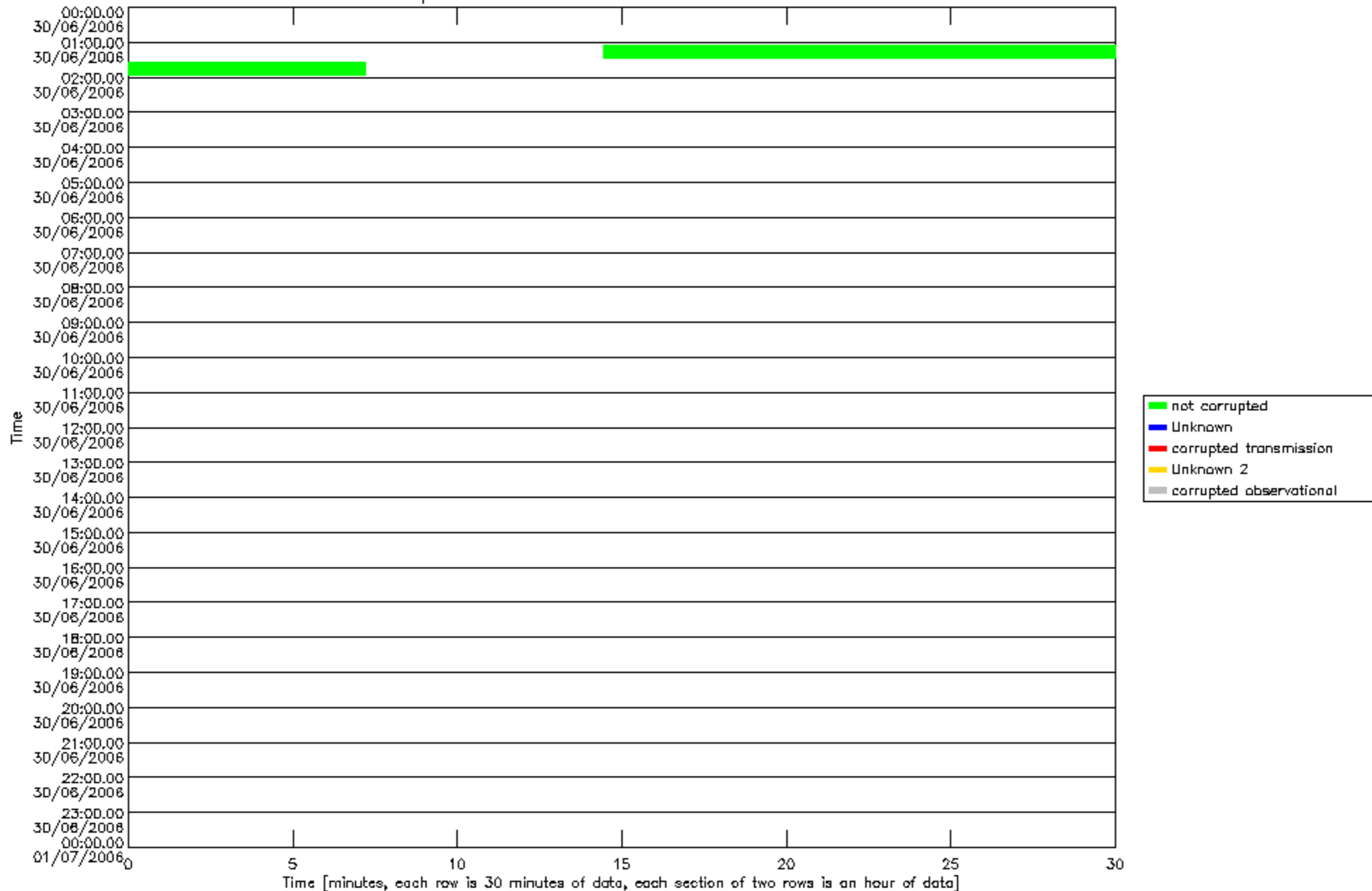
Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band A



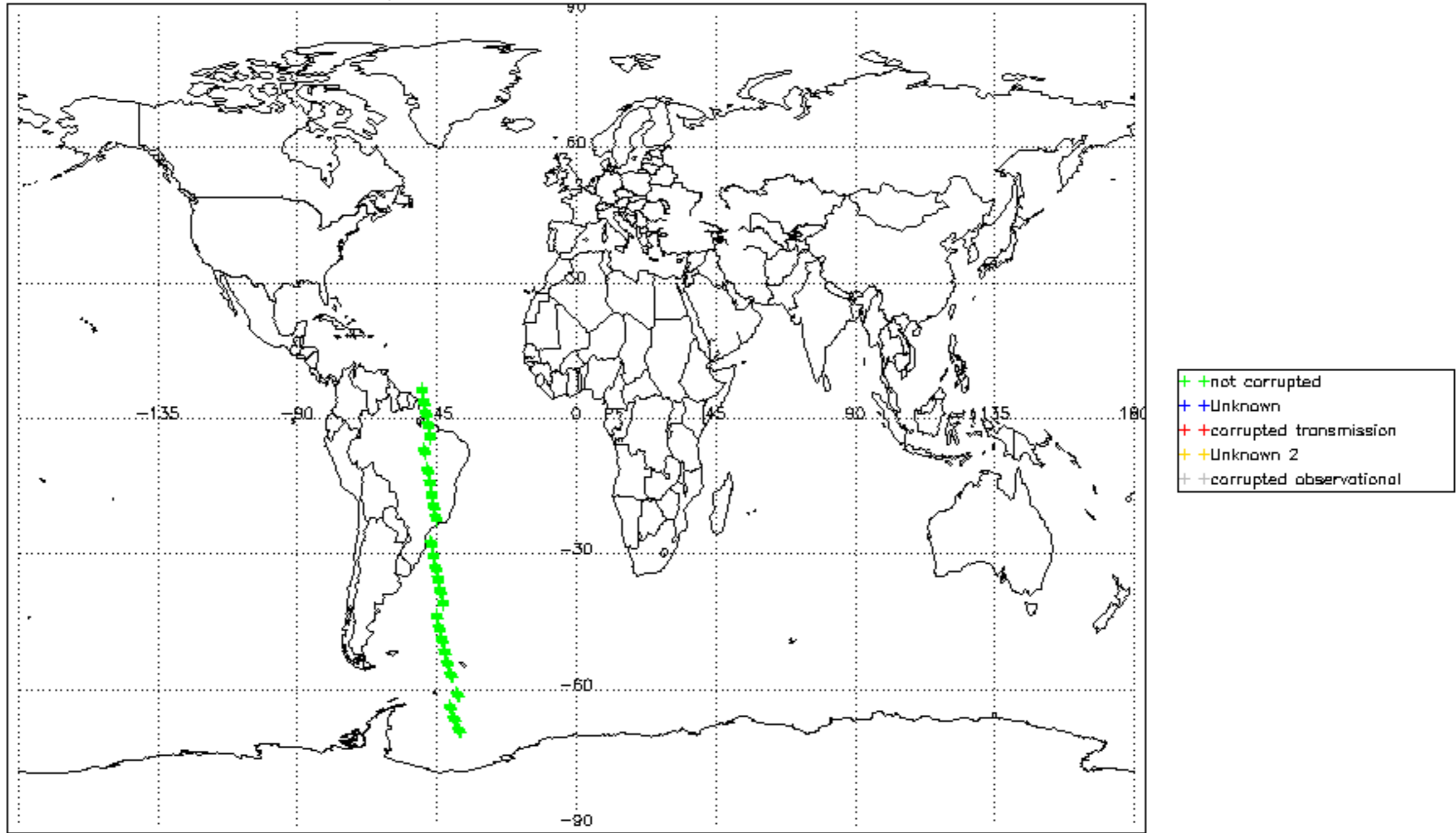
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band A



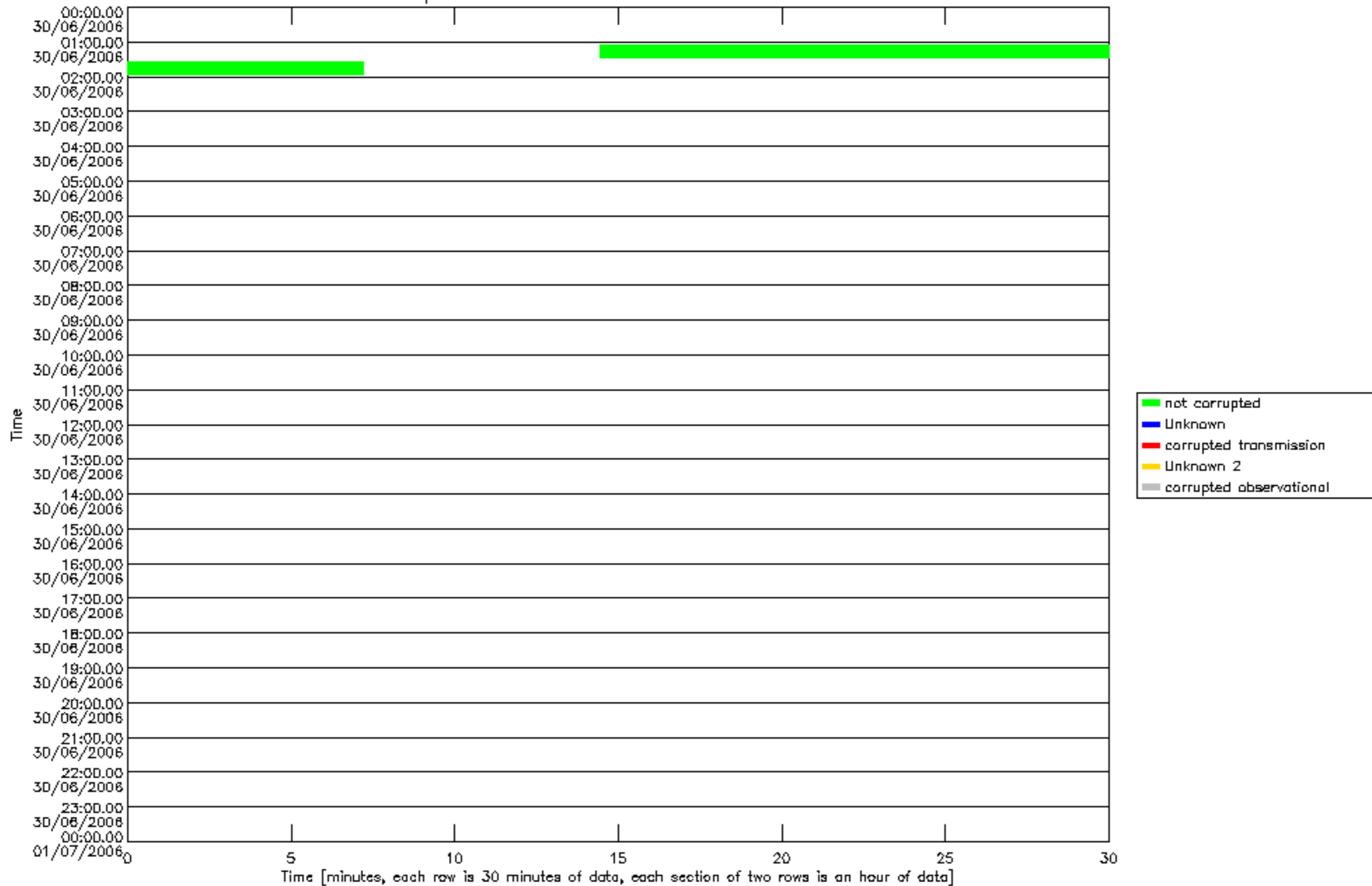
Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



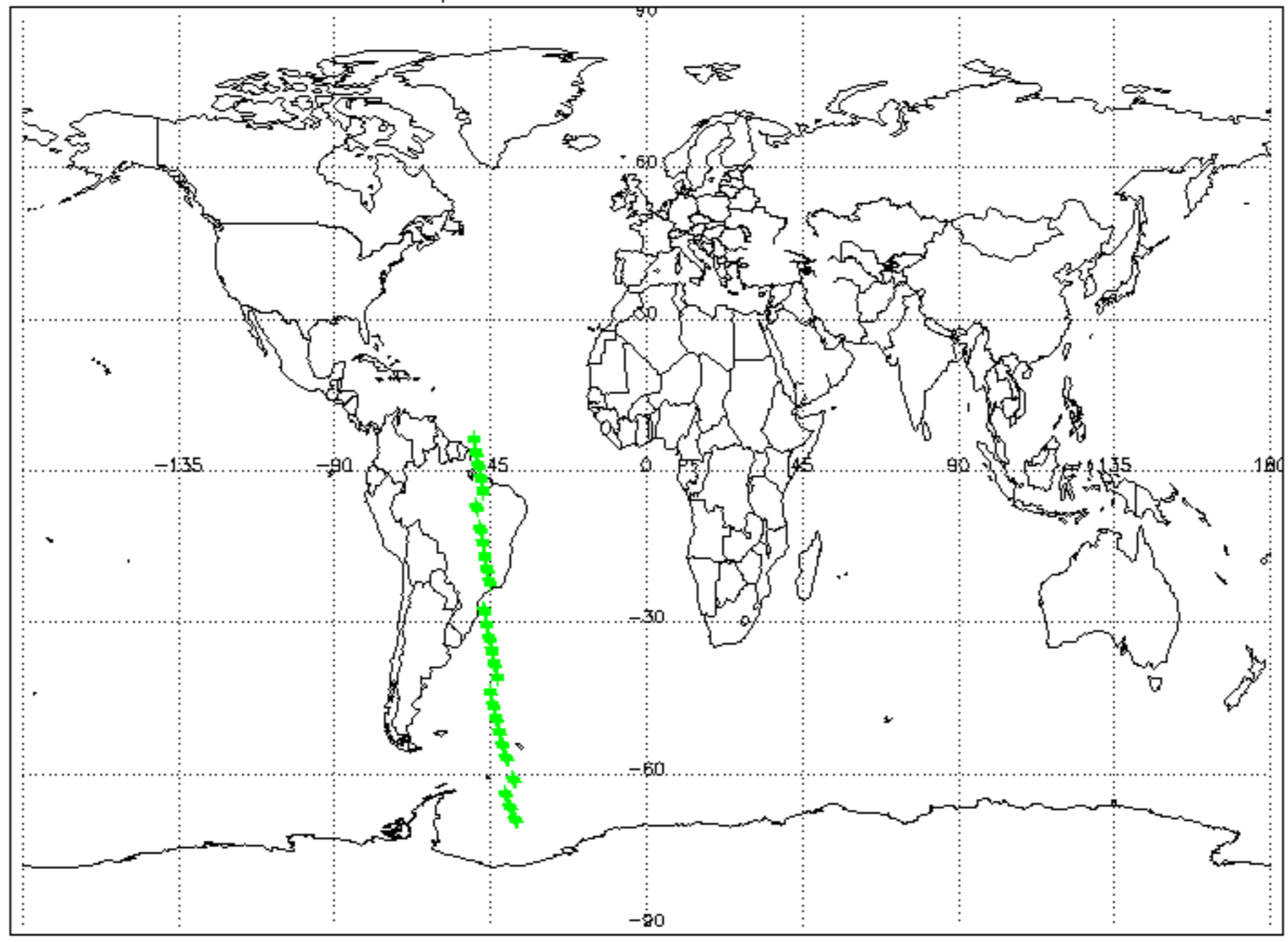
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band AB



Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band B

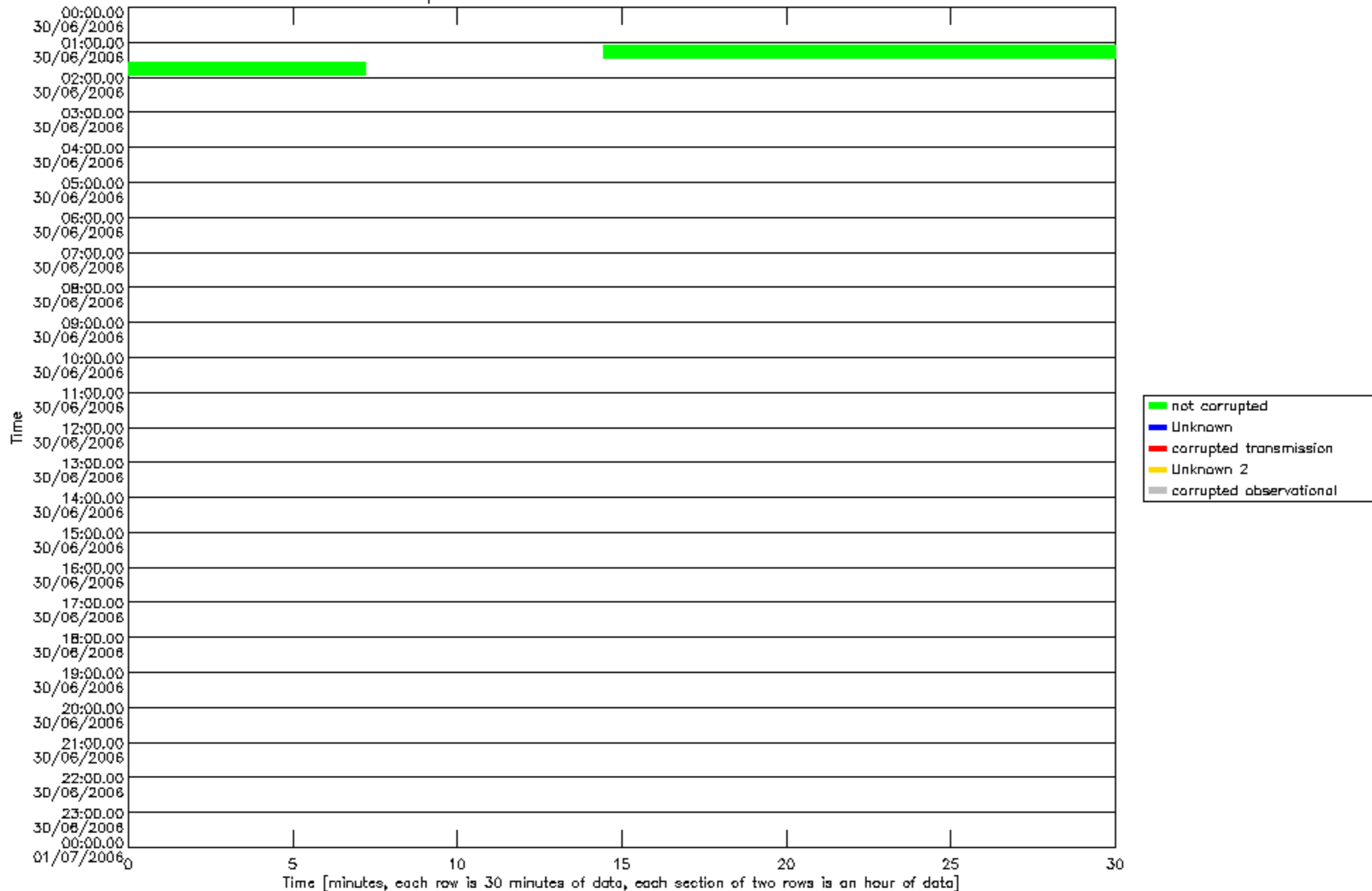


Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band B

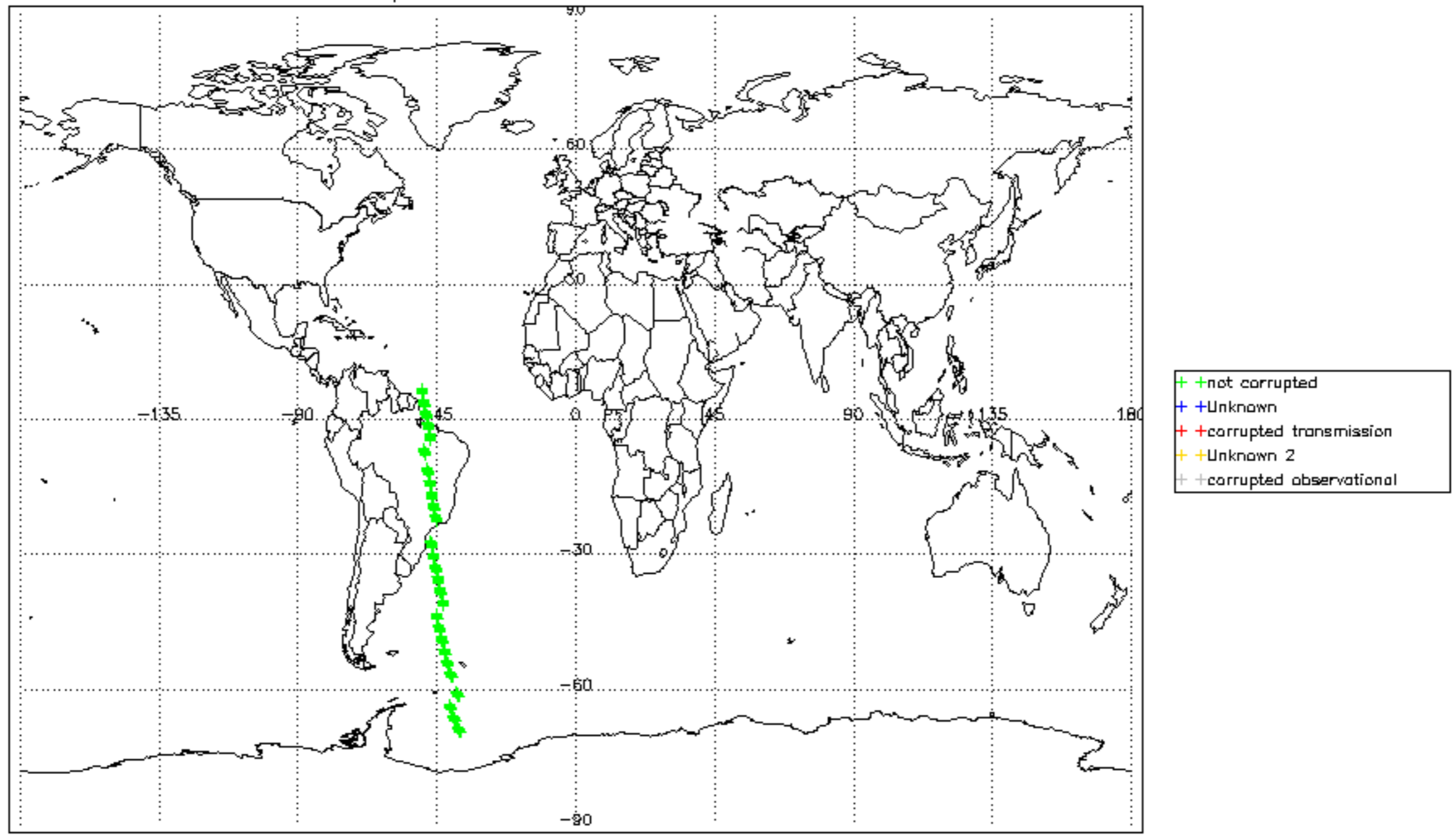


- + not corrupted
- + Unknown
- + corrupted transmission
- + Unknown 2
- + corrupted observational

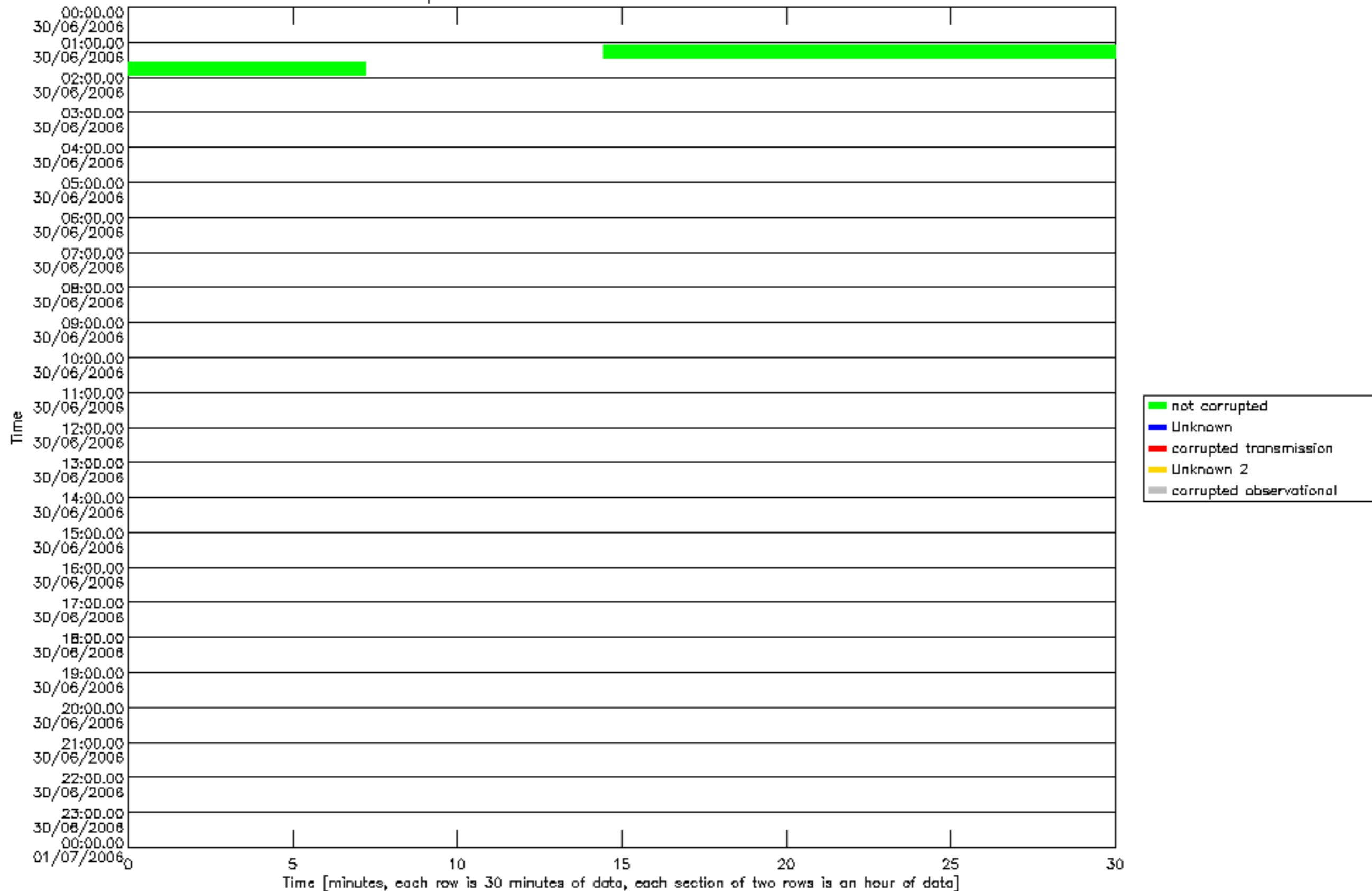
Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band C



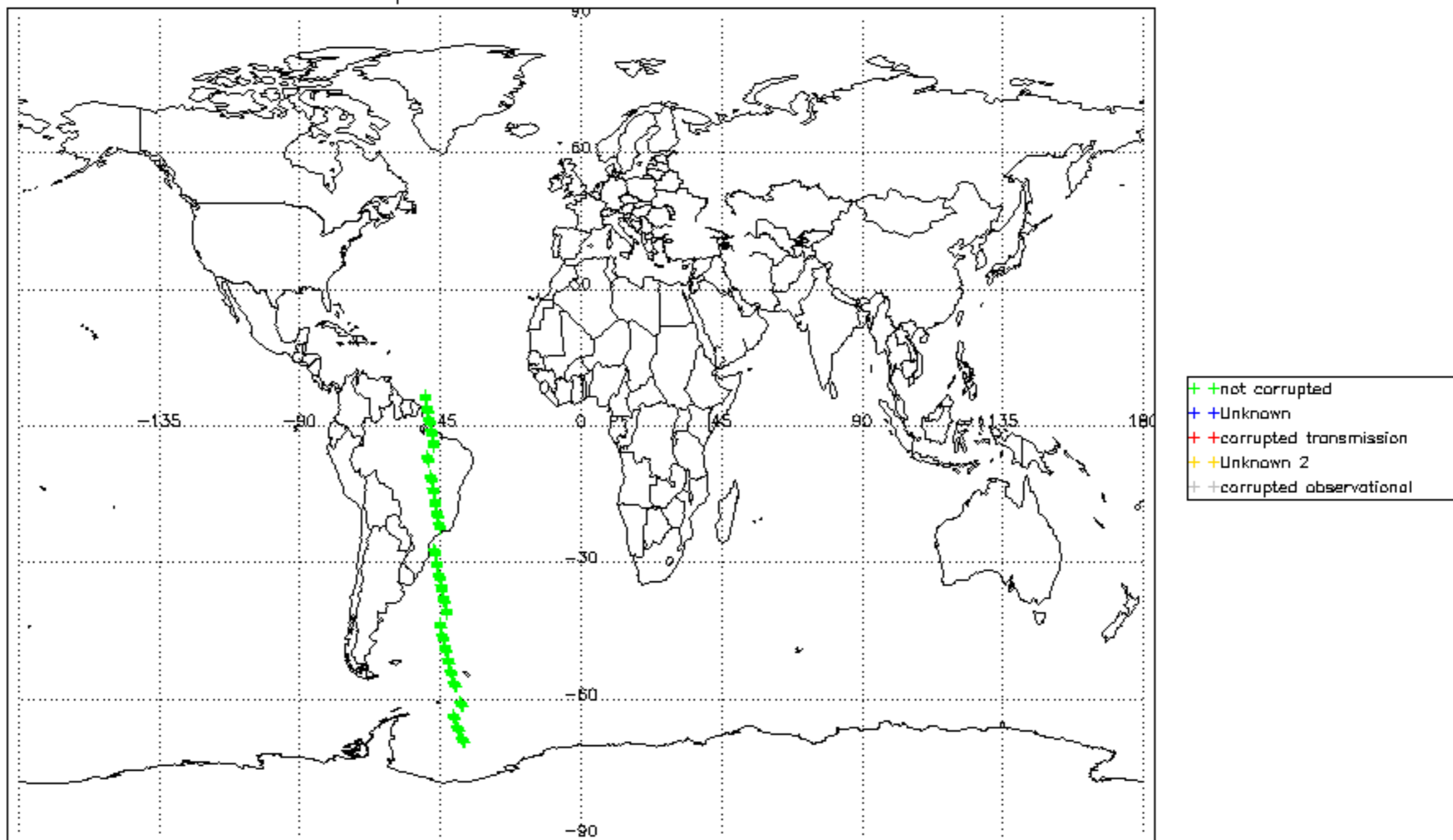
Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band C



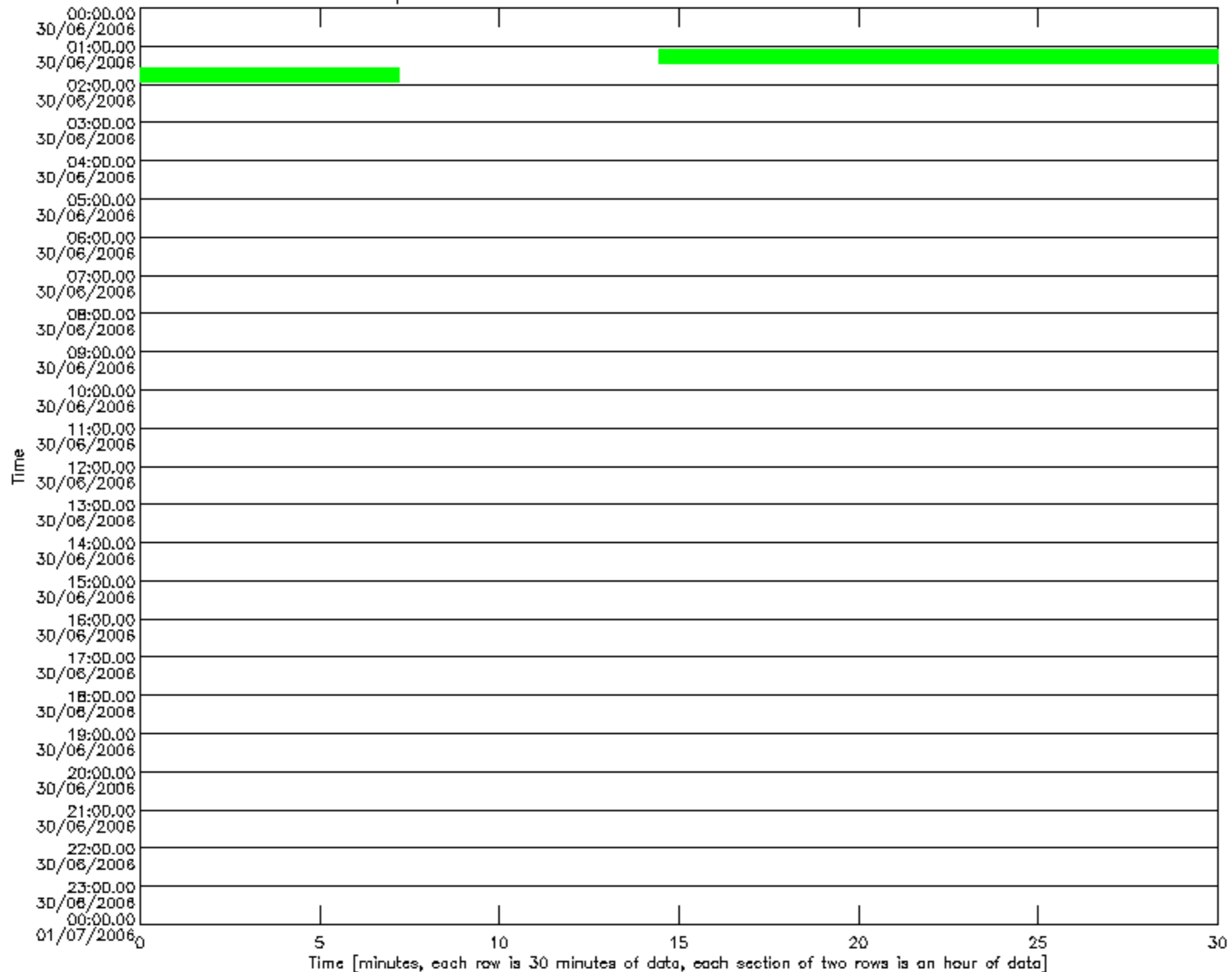
Bar plot of MIPNL1P_MIPLEV1BMDS_band_val band D



Geolocation plot of MIPNL1P_MIPLEV1BMDS_band_val band D

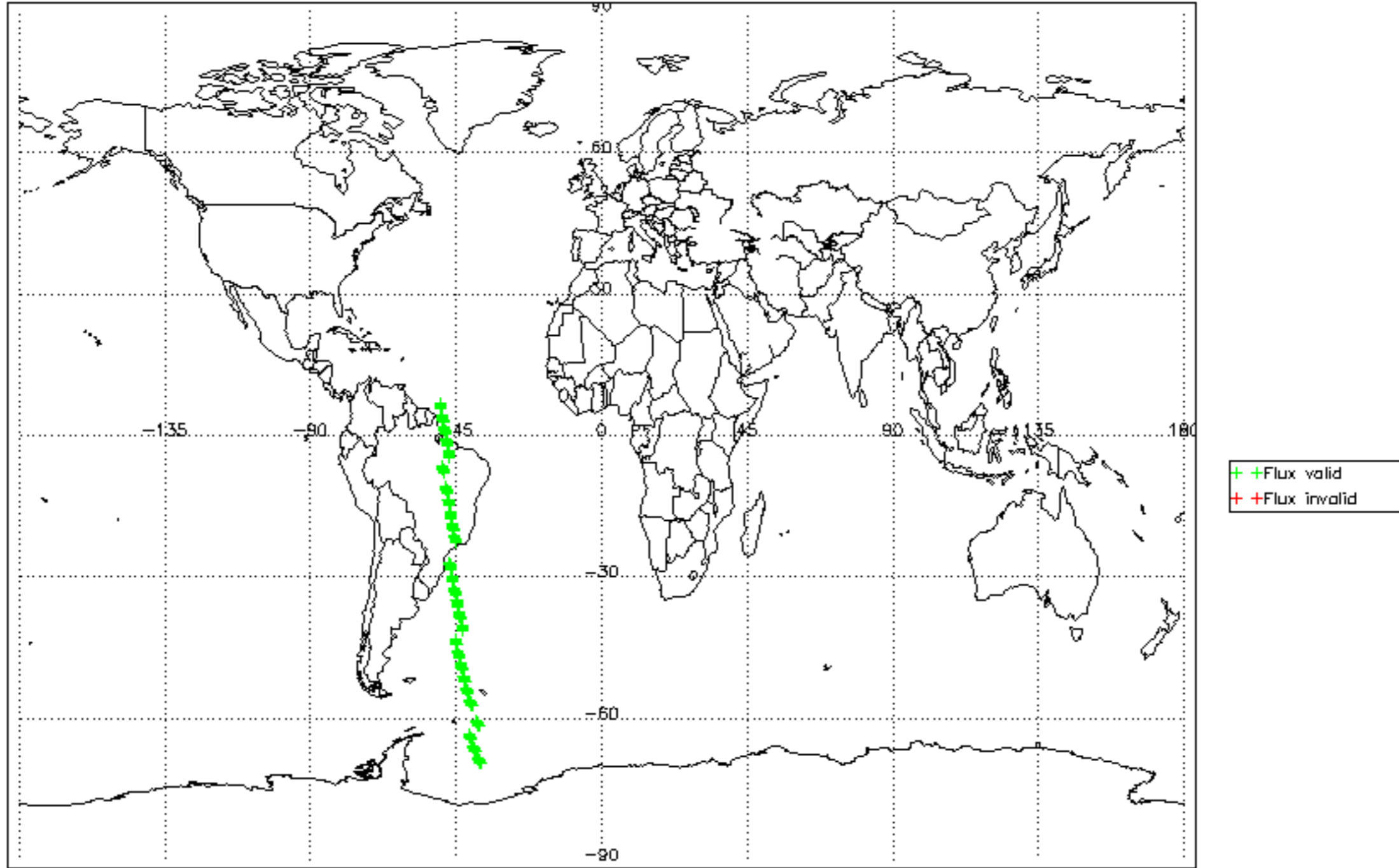


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A1

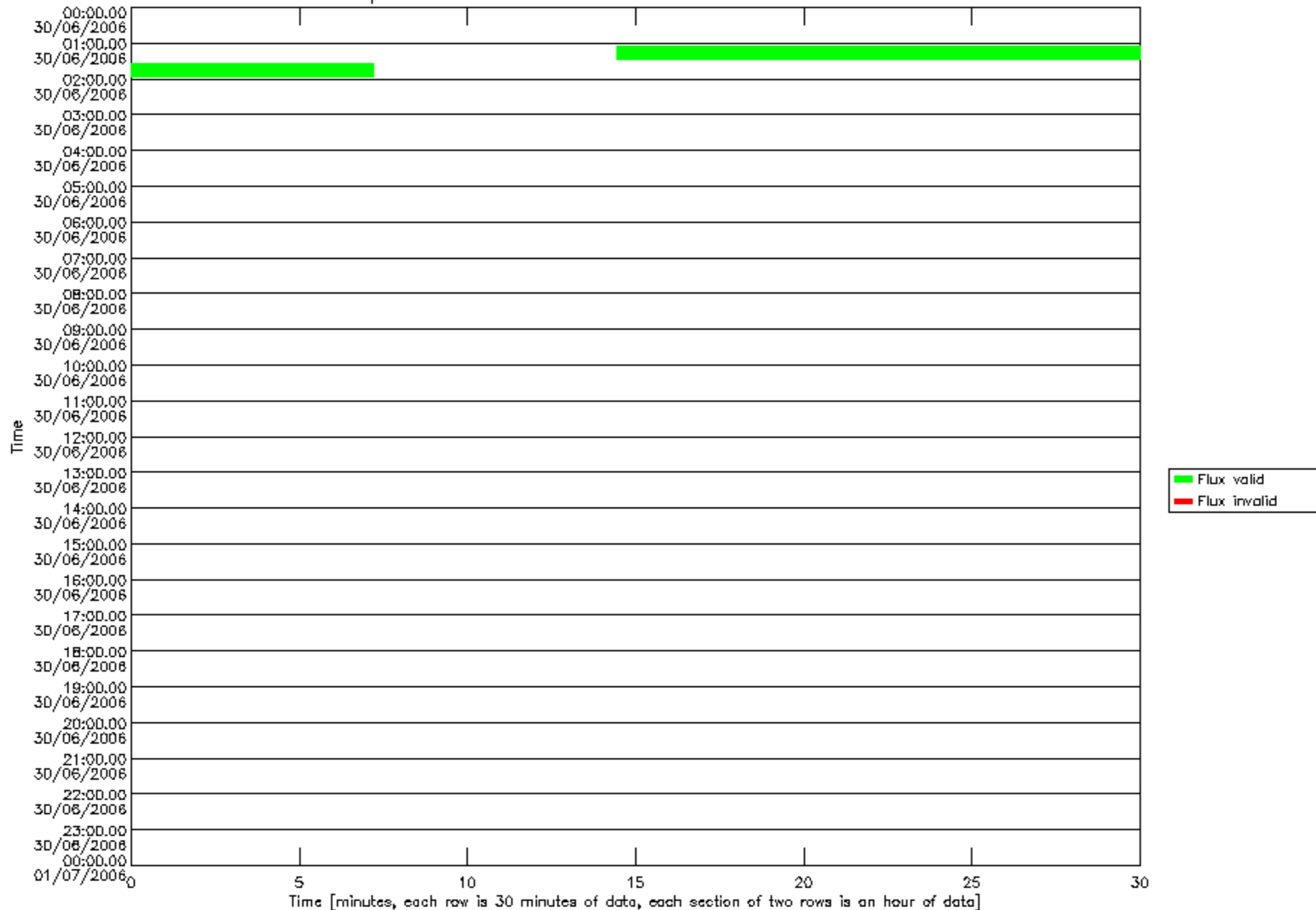


■ Flux valid
■ Flux invalid

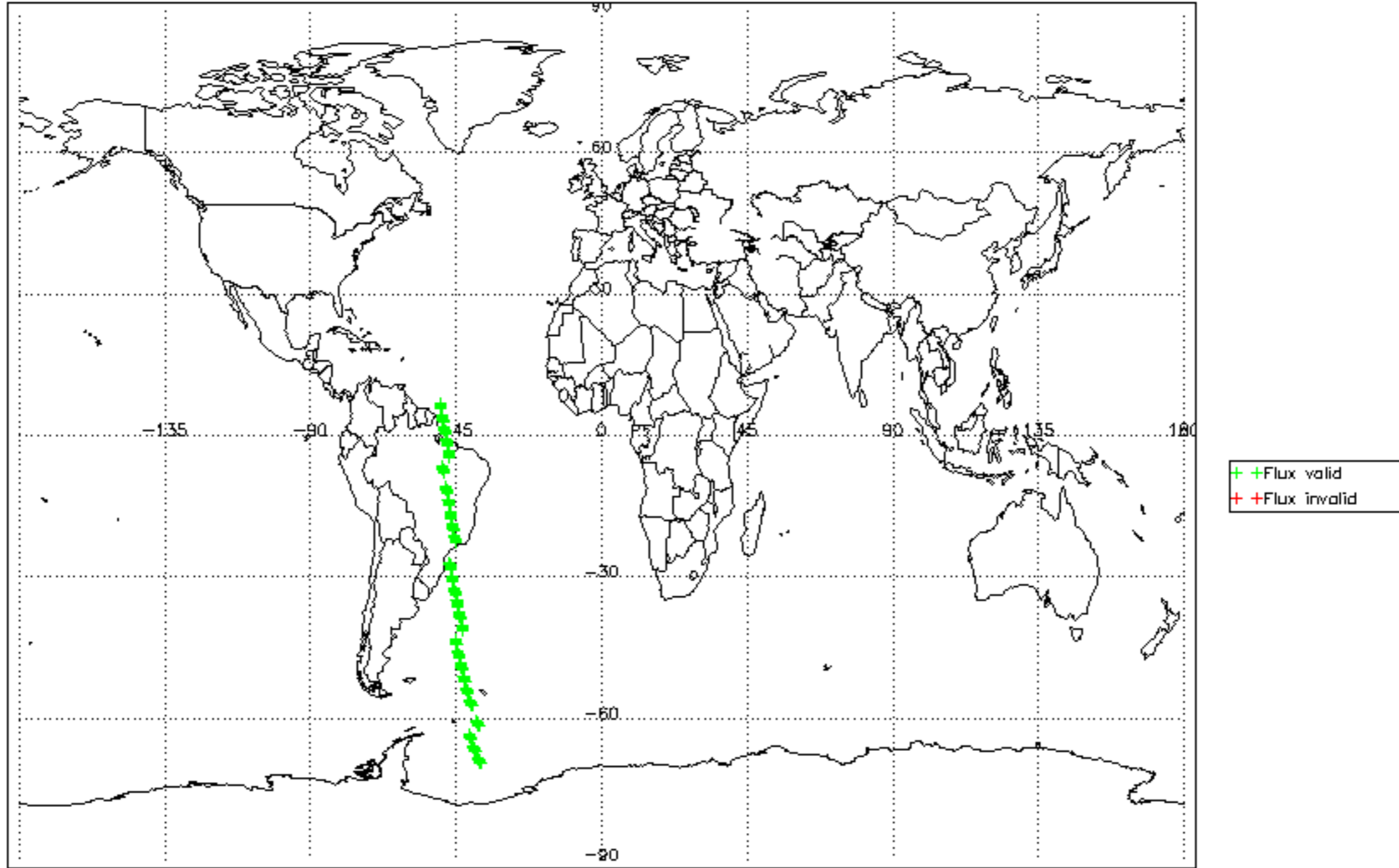
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A1



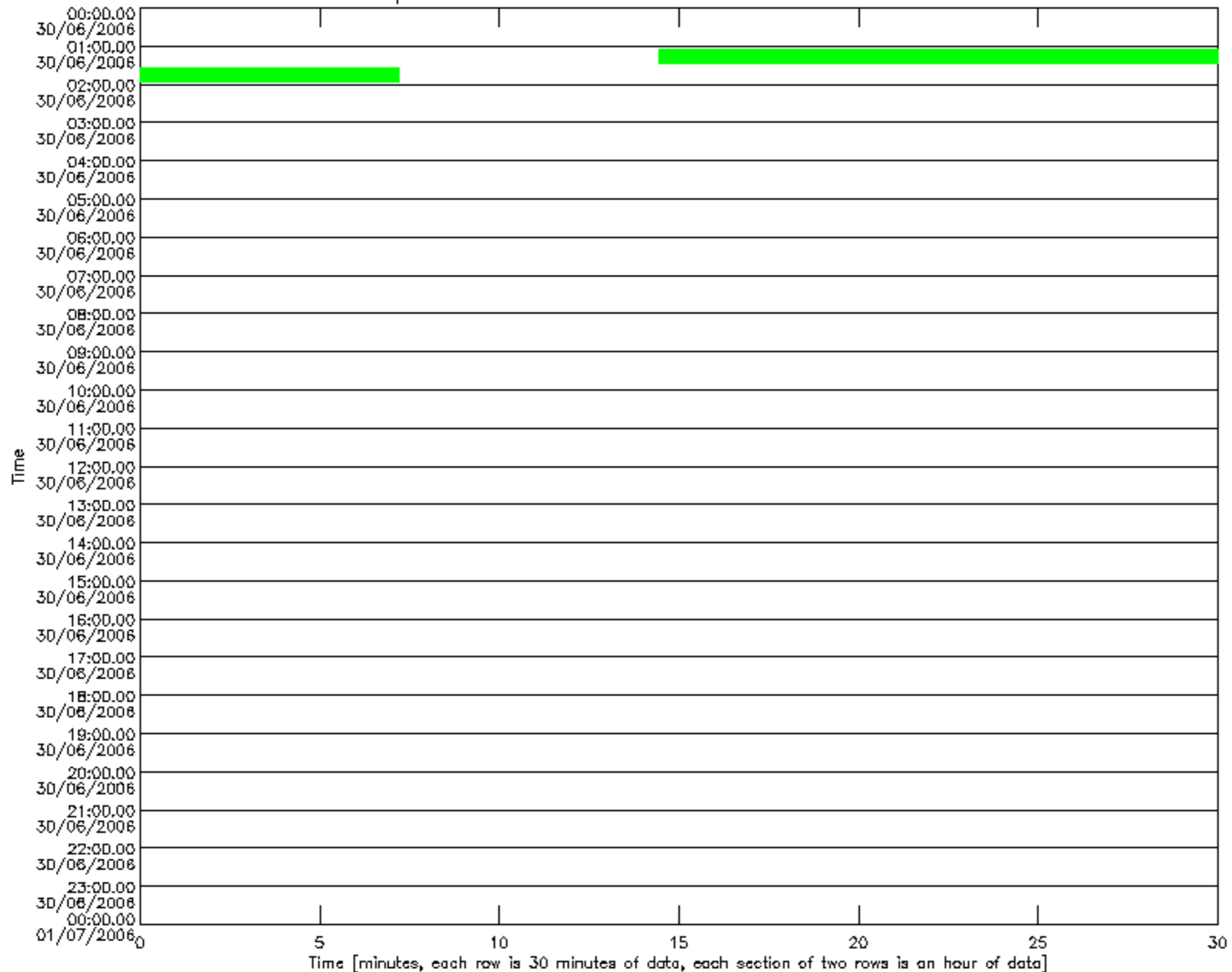
Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector A2



Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_in_flux detector A2

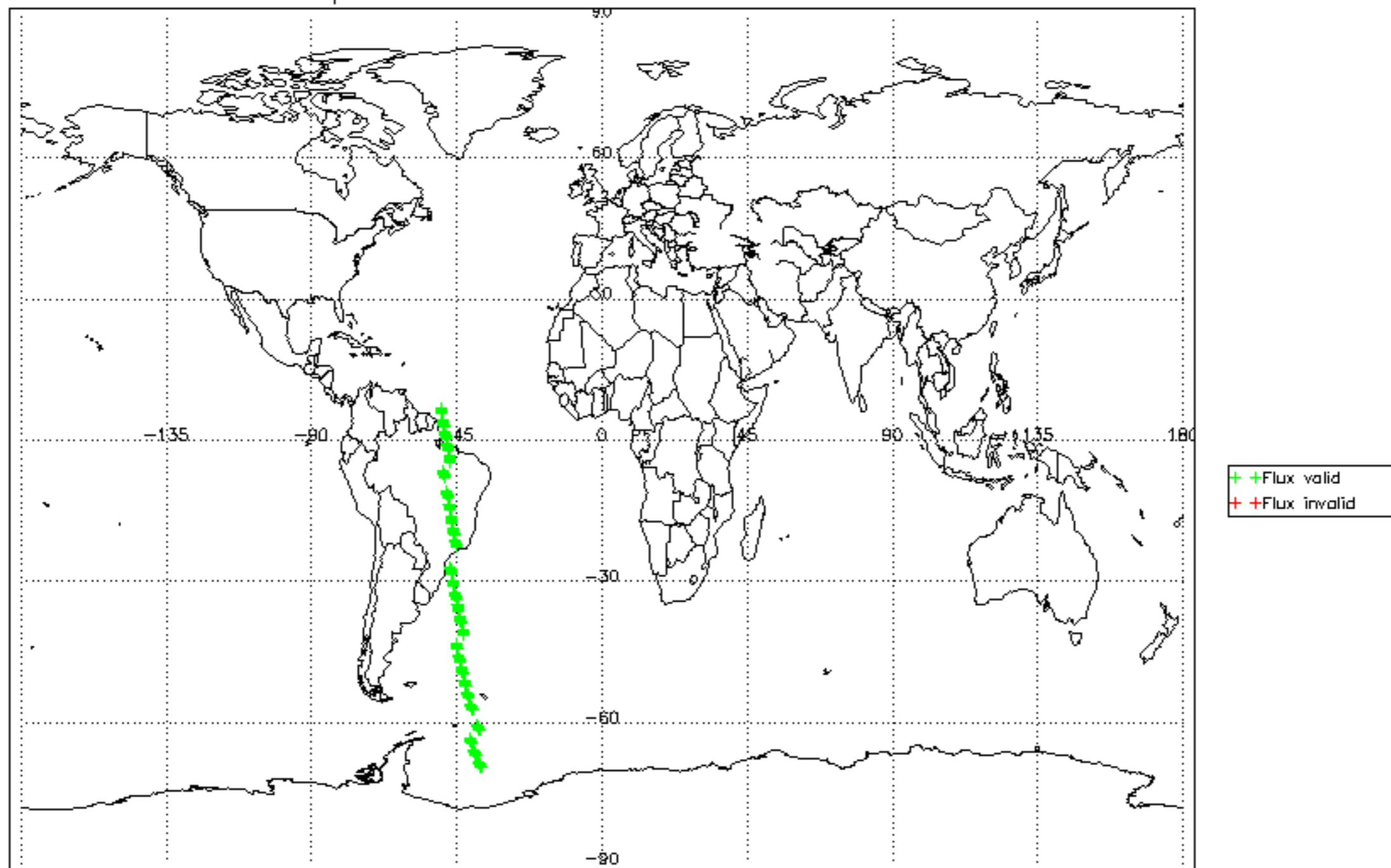


Bar plot of MIPNL1P_MIPLEV1 BMDS_detect_non_lin_flux detector AB

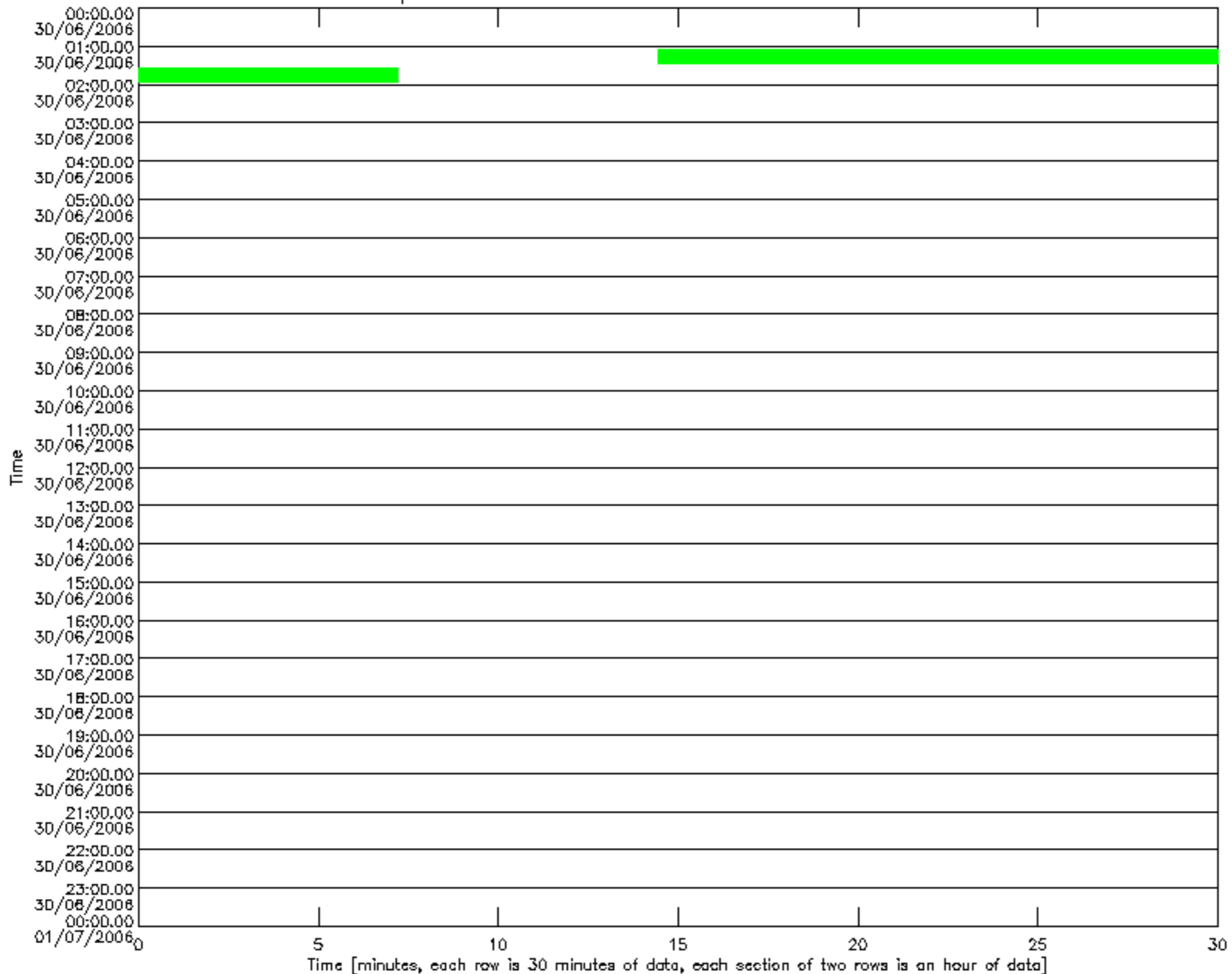


■ Flux valid
■ Flux invalid

Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector AB

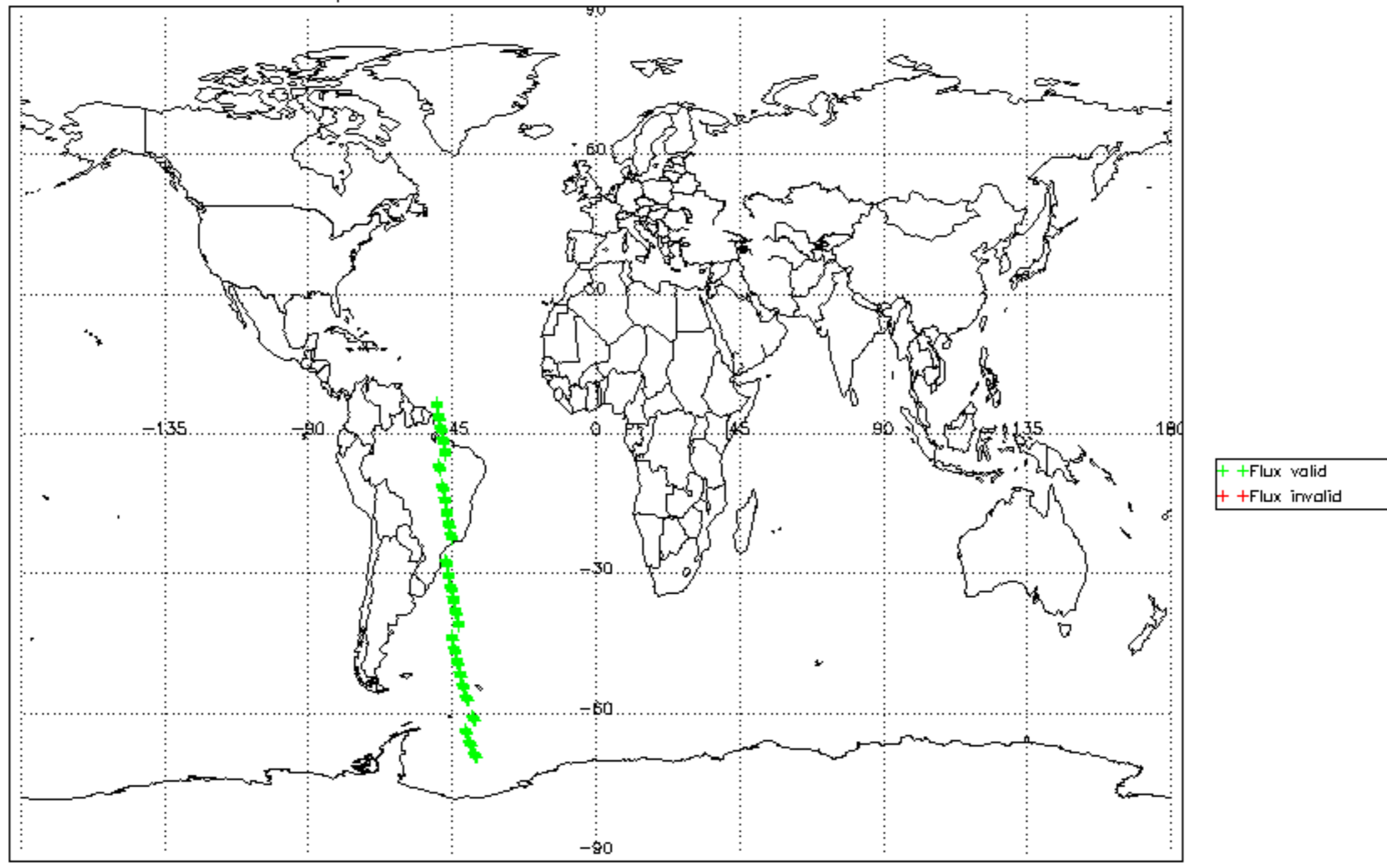


Bar plot of MIPNL1P_MIPLEV1BMDS_detect_non_lin_flux detector B

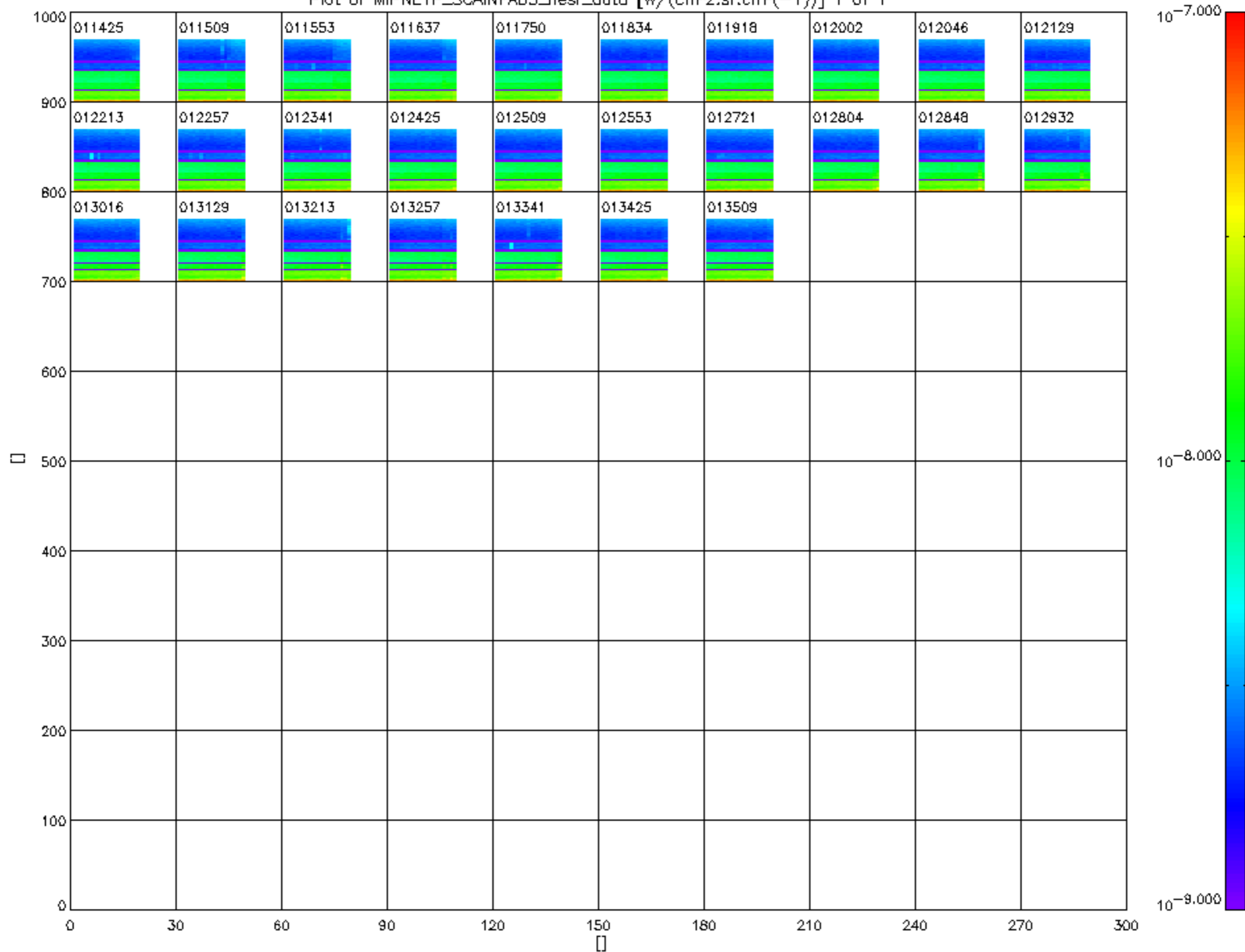


■ Flux valid
■ Flux invalid

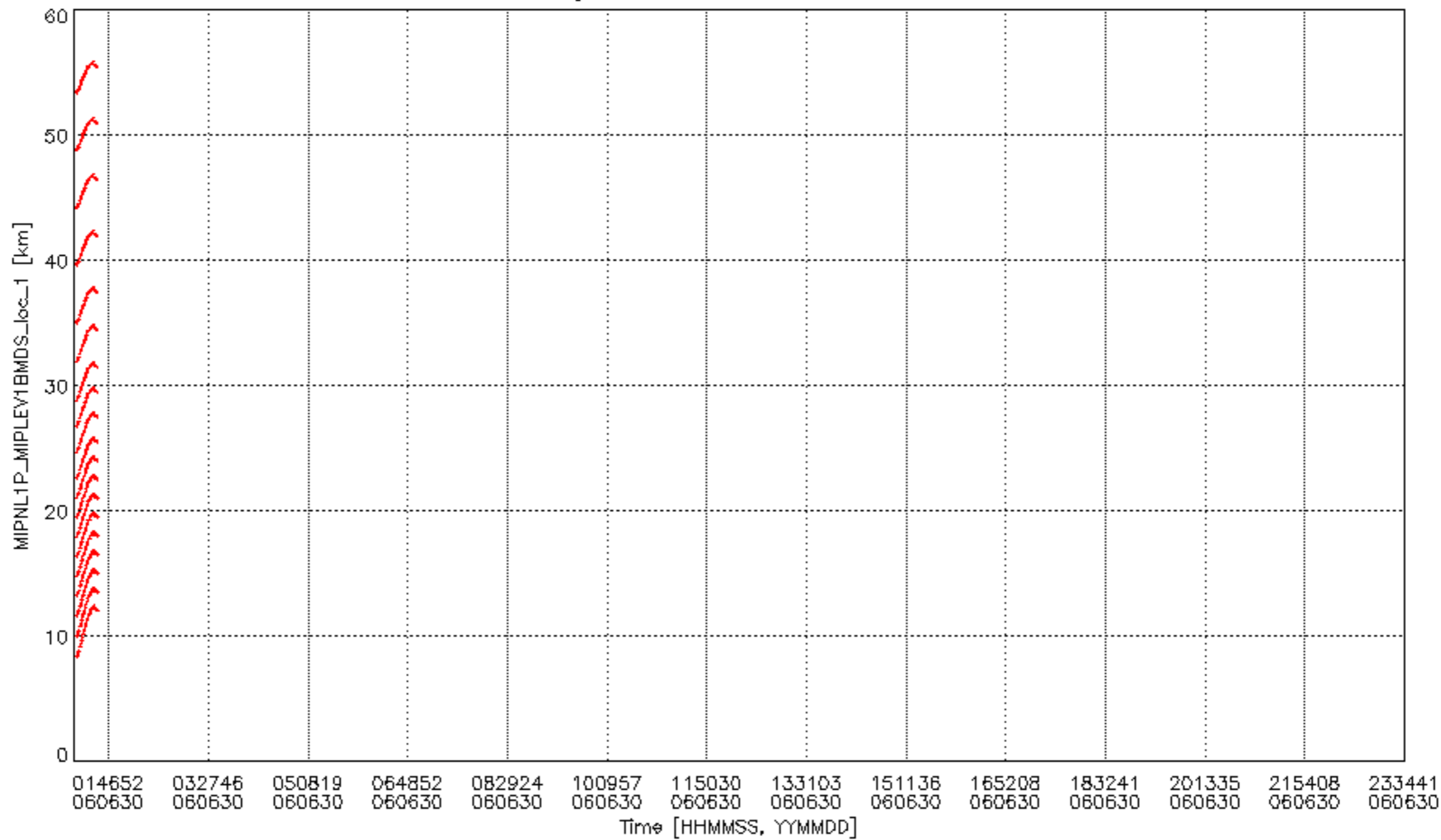
Geolocation plot of MIPNL1P_MIPLEV1BMDS_detect_non_Jin_flux detector B



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



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).

