

# 1. MIPAS Daily Report for level 1 products

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## [1.2 Product Quality Indicators](#)

## [1.3 Physical Quality Indicators](#)

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### 1.1 General Info

This report contains a daily analysis on parameters extracted from MIPAS level 1 data (The MIP\_NL\_\_1P product).

#### 1.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	v1.2 06-04-2006
Time of report generation	10MAY2006 12:13:36
Data source version	MIPAS/4.65-P
Processing scope for products	12APR2006 00:00:00 to 13APR2006 00:00:00
Start time of first product within scope	12APR2006 07:51:50
Stop time of last product within scope	12APR2006 09:32:20
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.

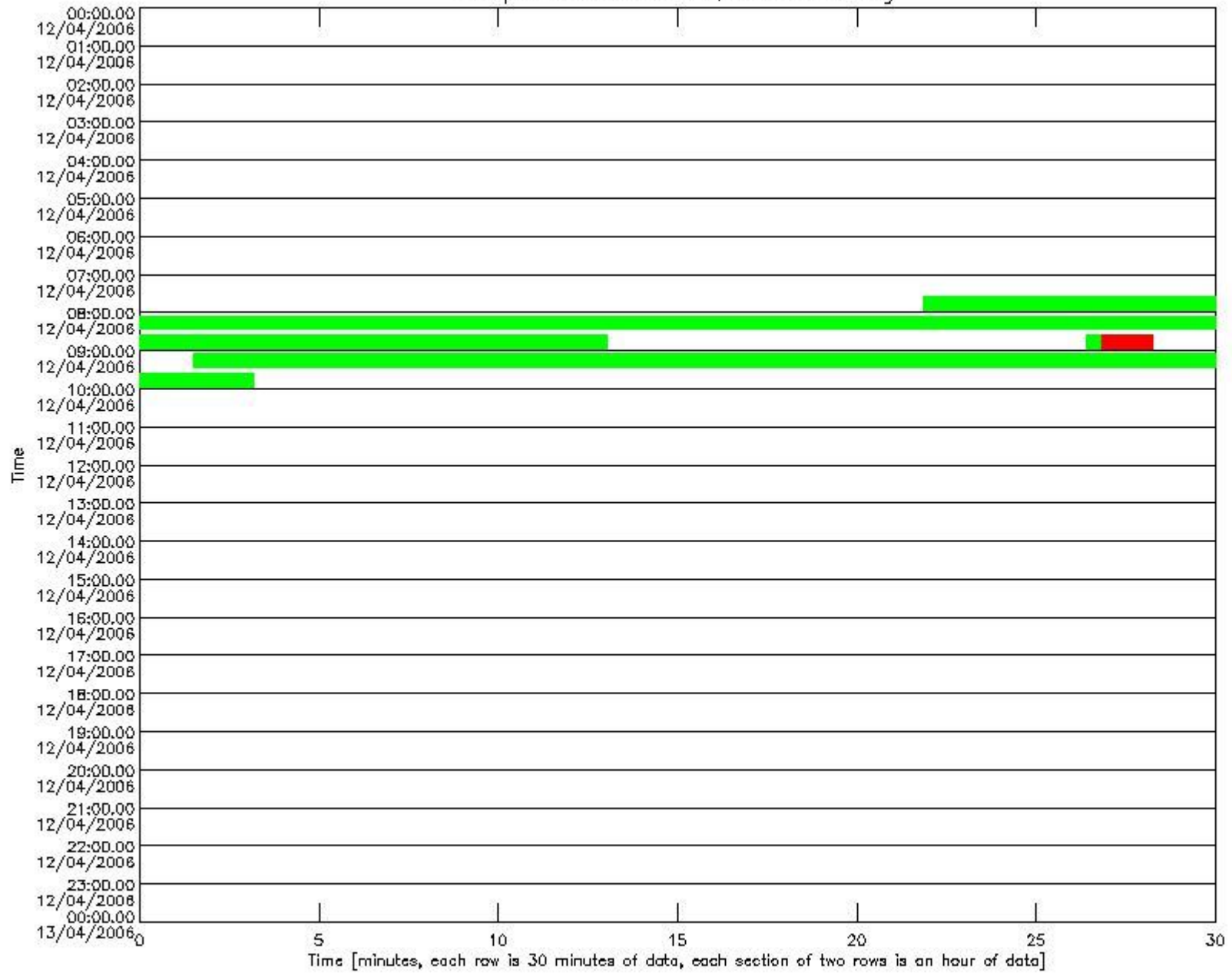
#	Product name	Start time	Stop time	Prod err	Slice position (prod/tot)
0	MIP_NL__1PPDPA20060412_075150_000060302046_00422_21518_2177.N1	12APR2006 07:51:50	12APR2006 09:32:20	0	0/0

### 1.2 Product Quality Indicators

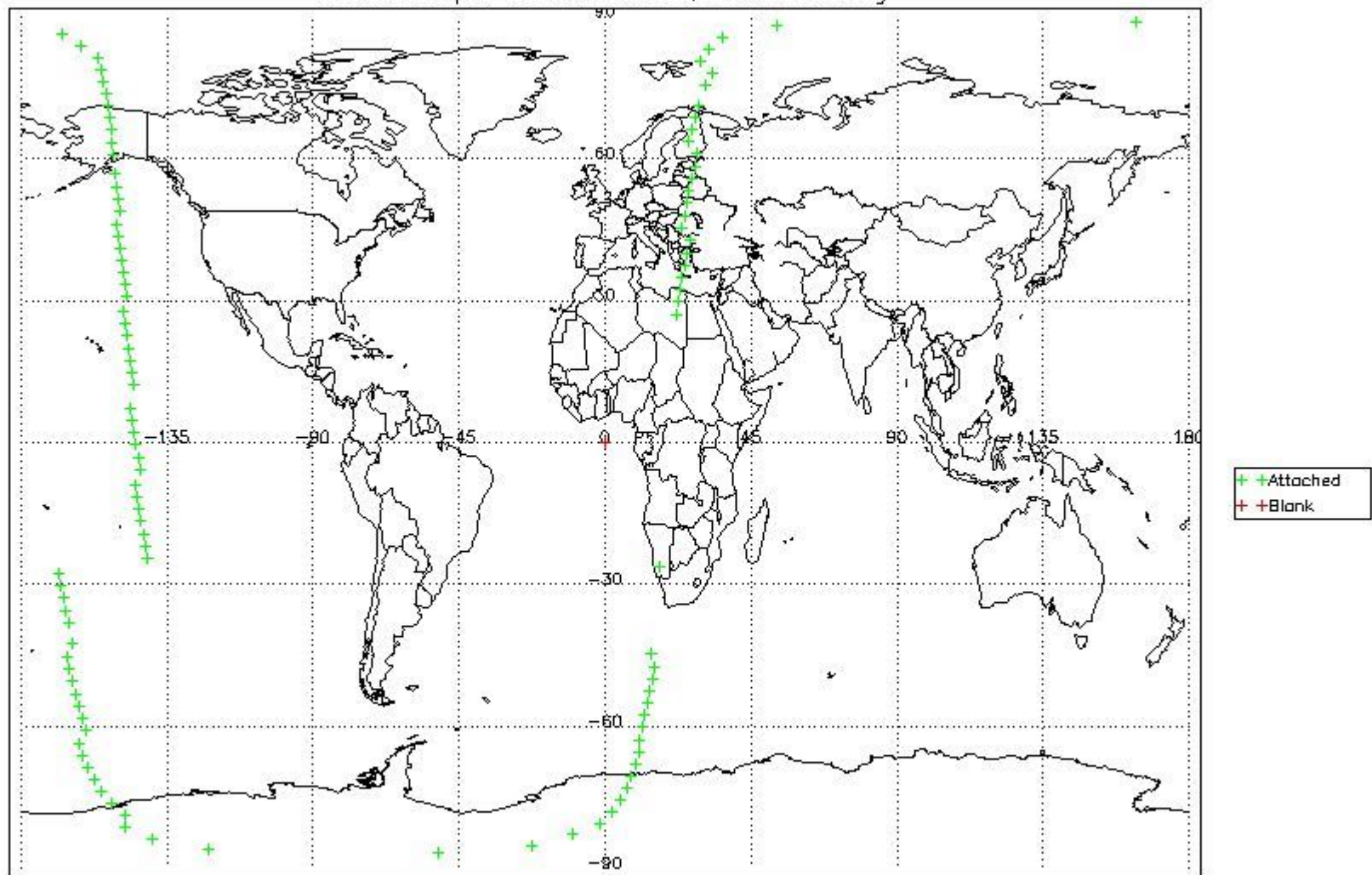
This report contains an analysis on product quality related parameters within the MIP\_NL\_\_1P product.

#### 1.2.1 Trends and geolocation of Summary Quality ADS

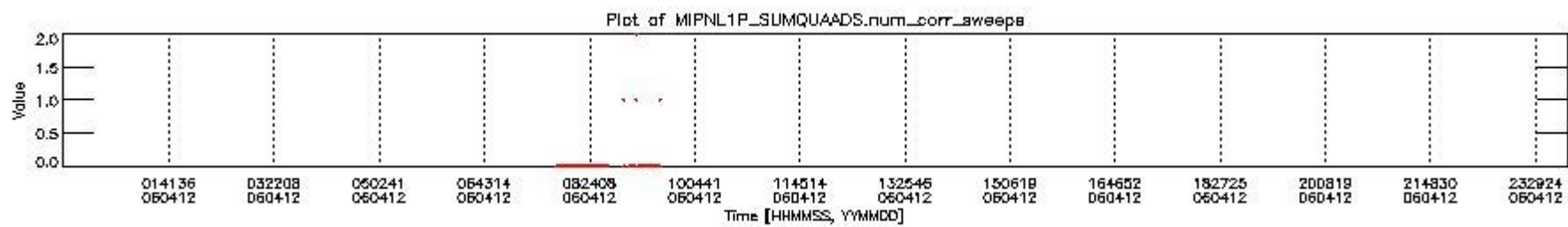
Bar plot of MIPNL1P\_SUMQUAADS.attach\_flag



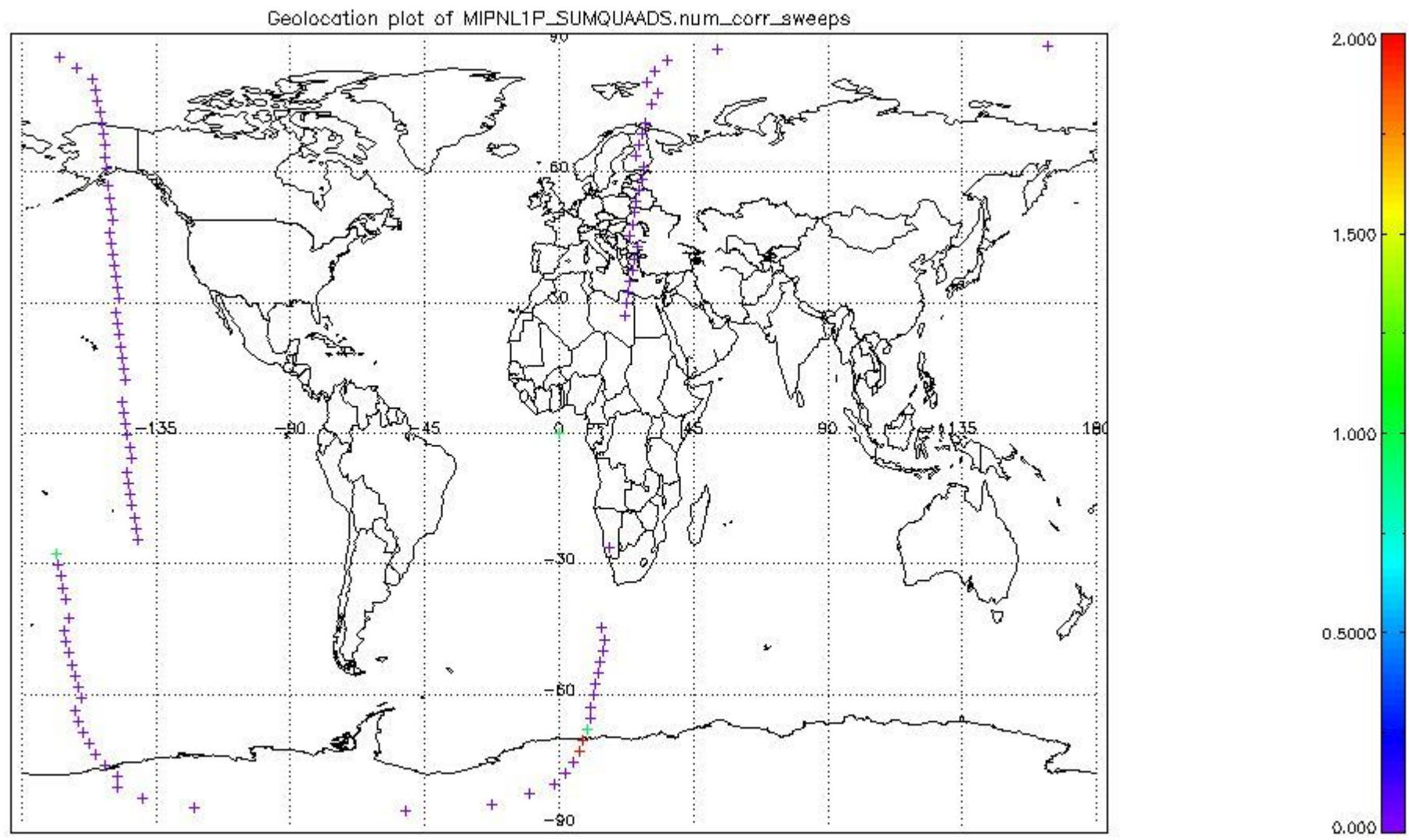
Geolocation plot of MIPNL1P\_SUMQUADS.attach\_flag



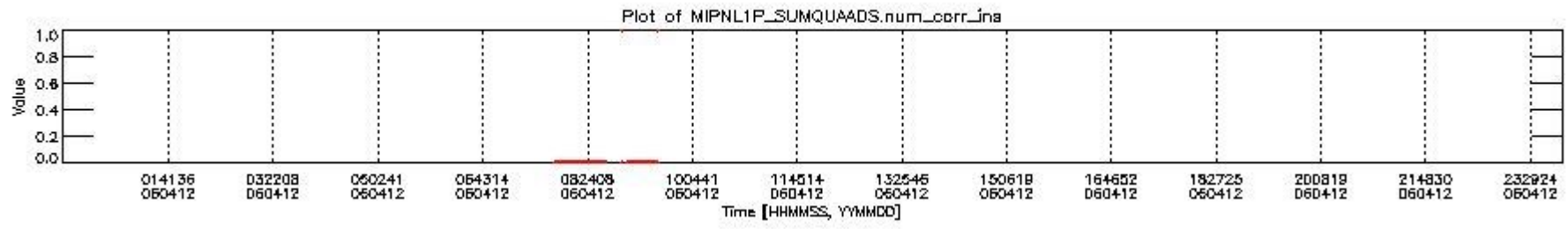
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_1.PNG



mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_2.PNG



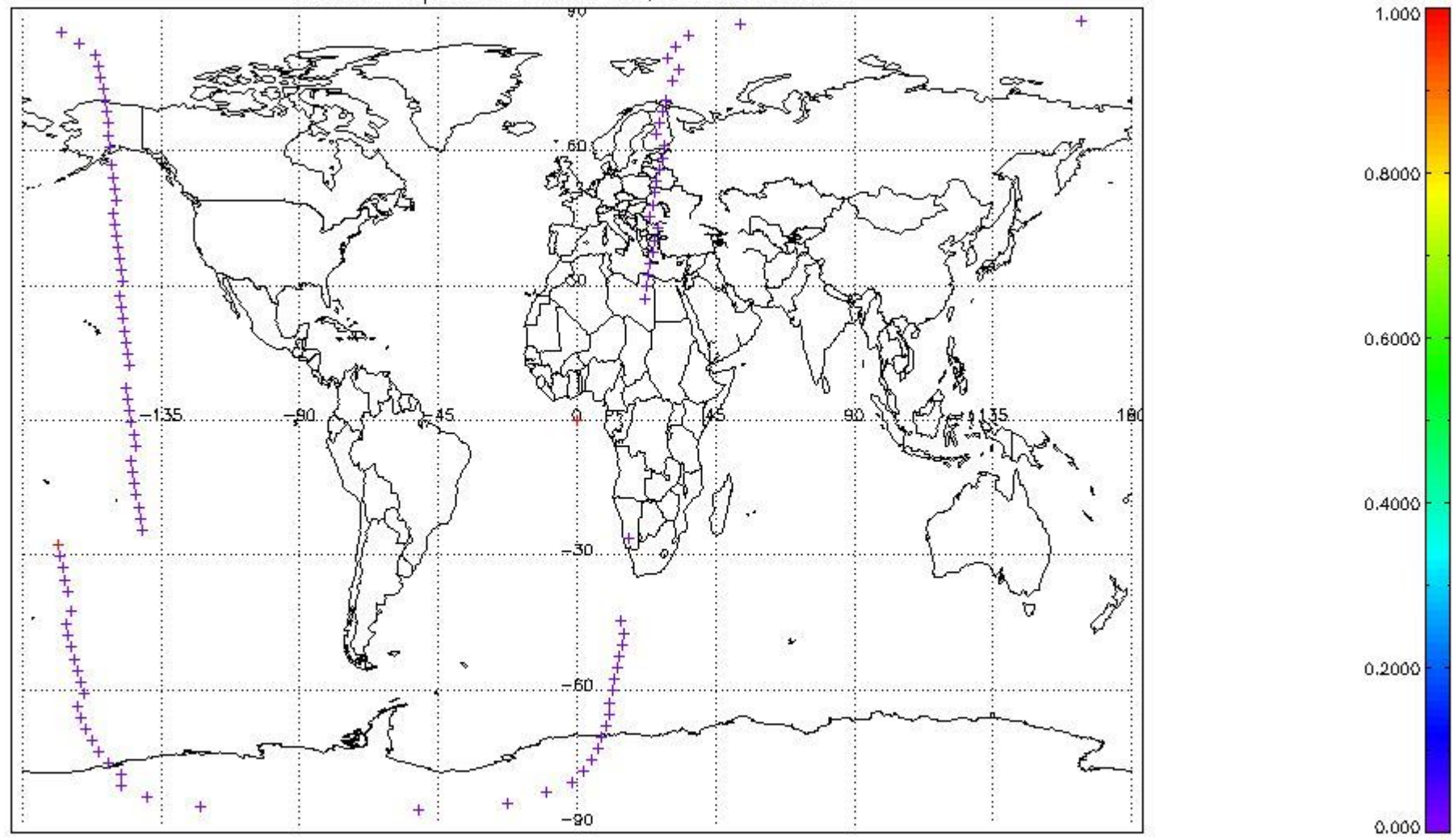
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_3.PNG



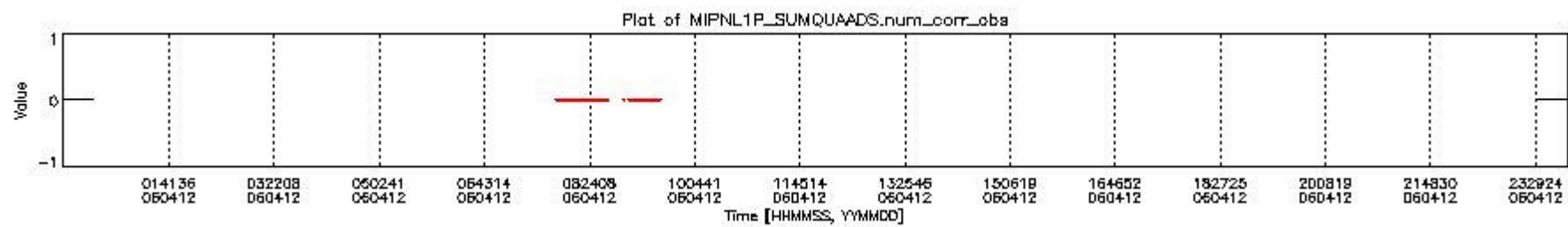
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_4.PNG



Geolocation plot of MIPNL1P\_SUMQUAADS.num\_corr\_ins

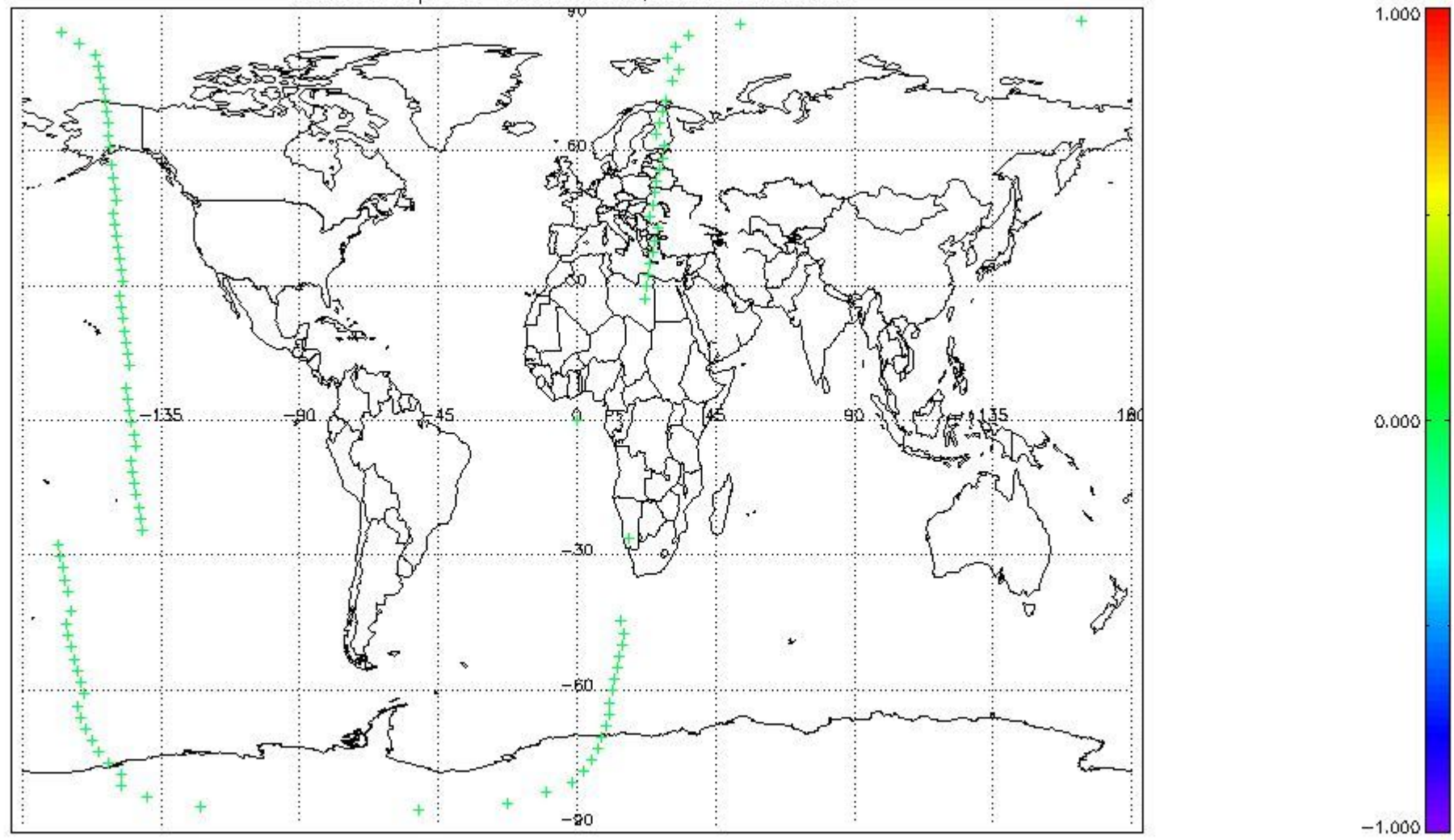


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_5.PNG

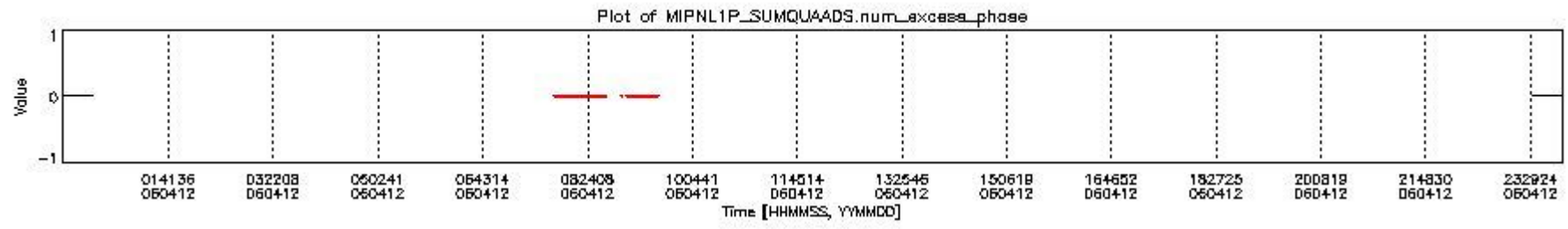


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_6.PNG

Geolocation plot of MIPNL1P\_SUMQUAADS.num\_corr\_obs

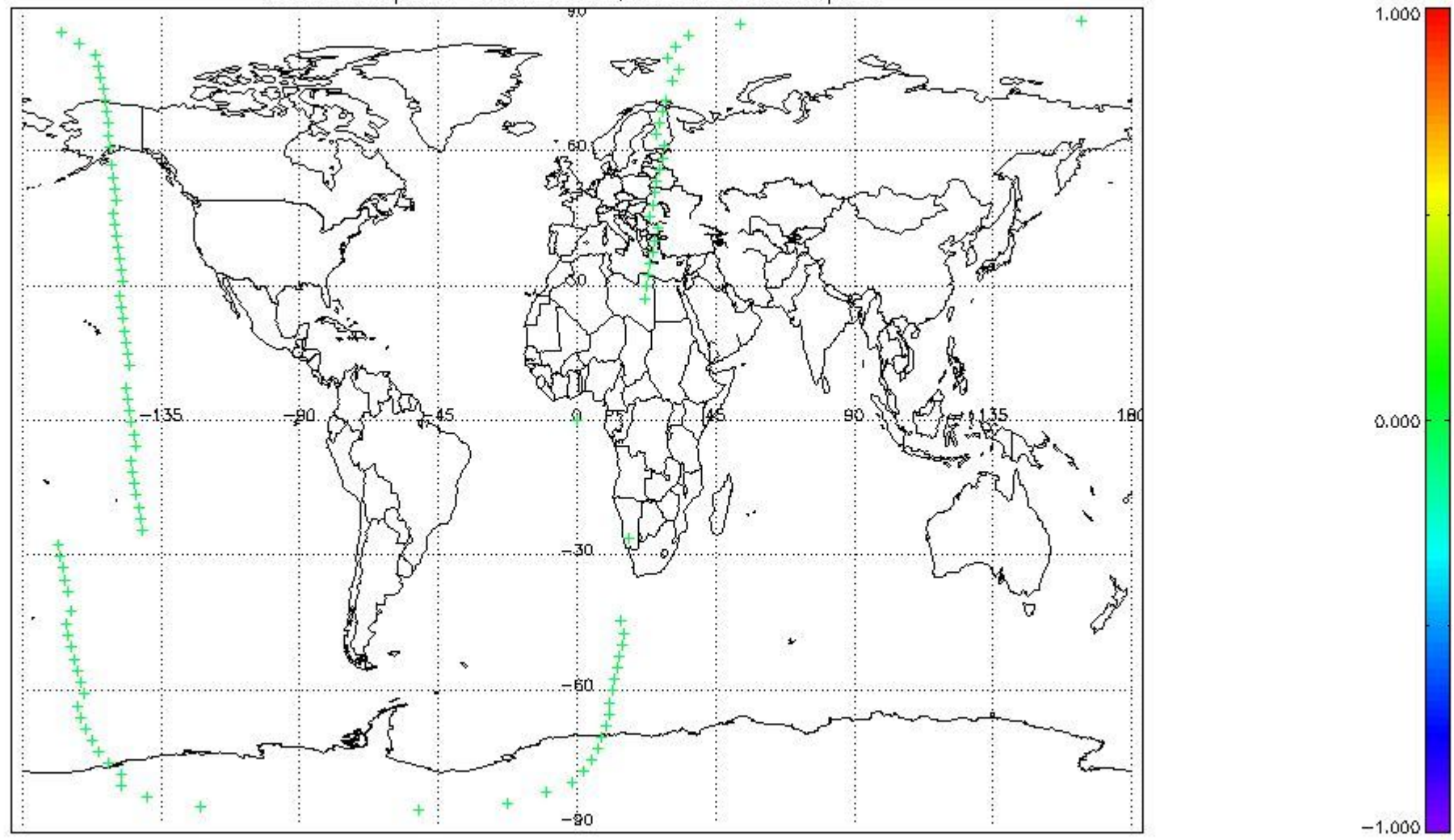


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_7.PNG

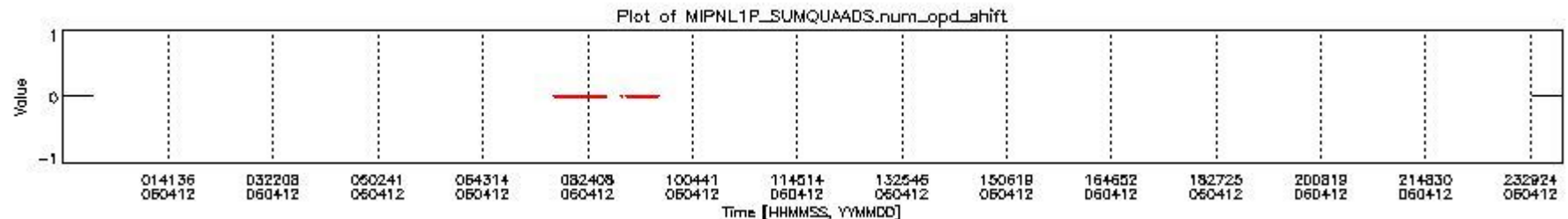


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_8.PNG

Geolocation plot of MIPNL1P\_SUMQUAADS.num\_excess\_phase



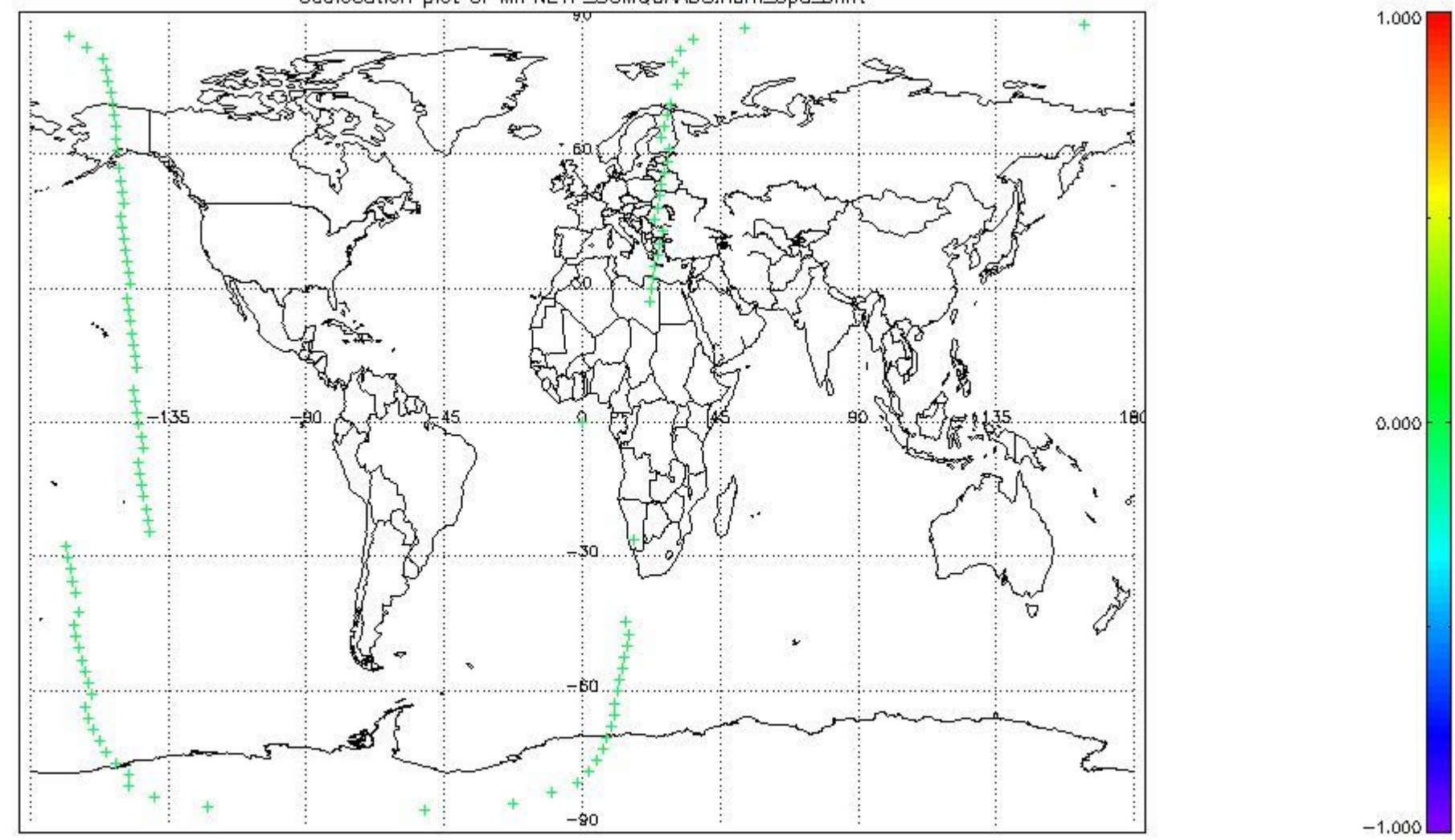
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_9.PNG



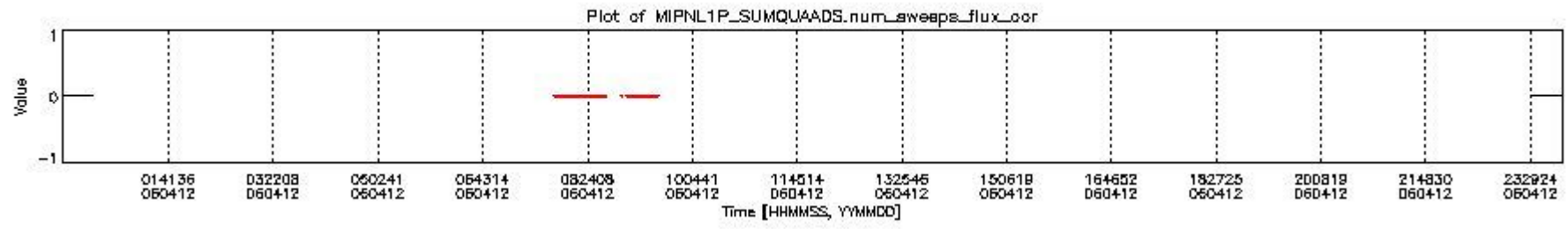
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_10.PNG



Geolocation plot of MIPNL1P\_SUMQUAADS.num\_lopd\_shift

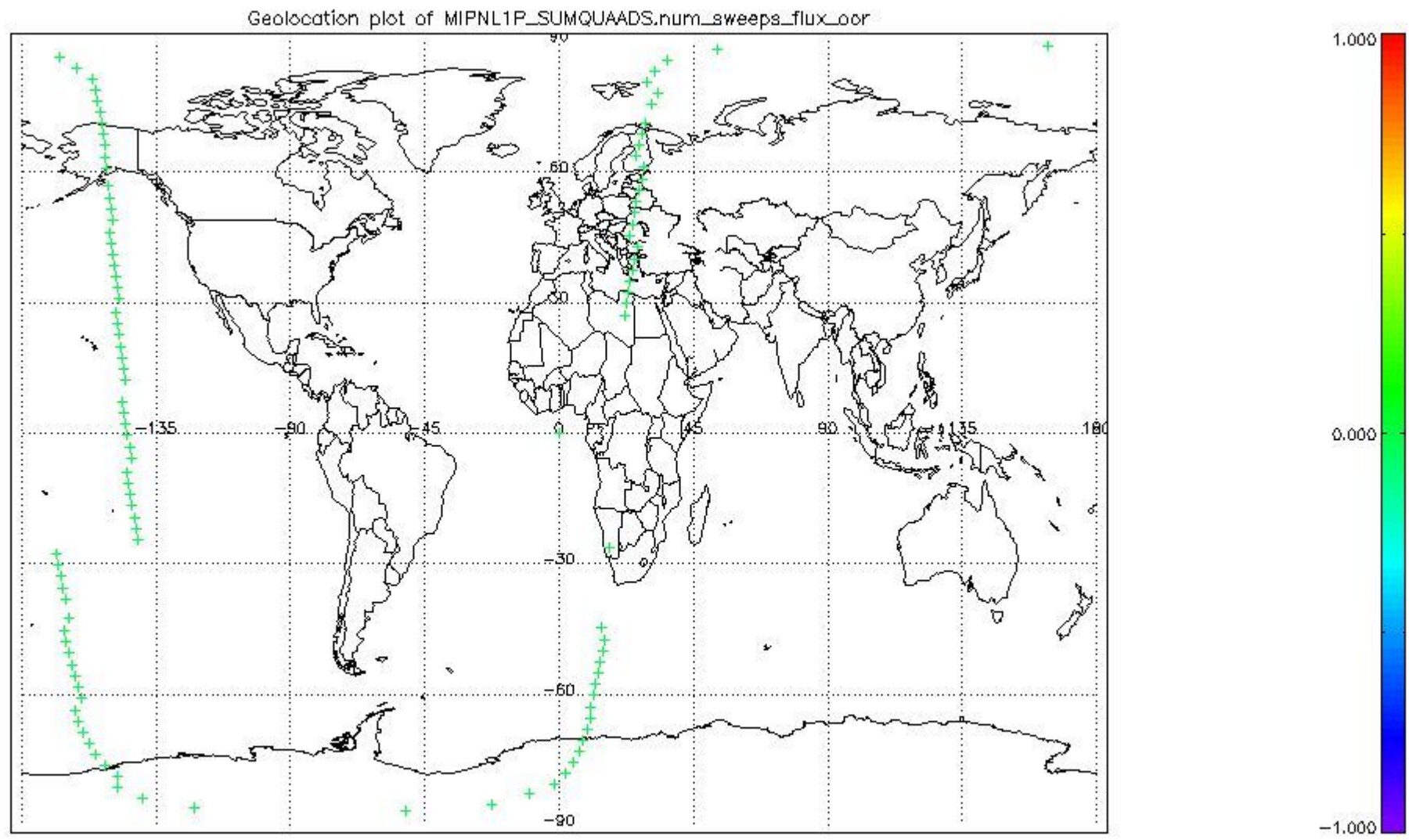


mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_11.PNG



mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_12.PNG

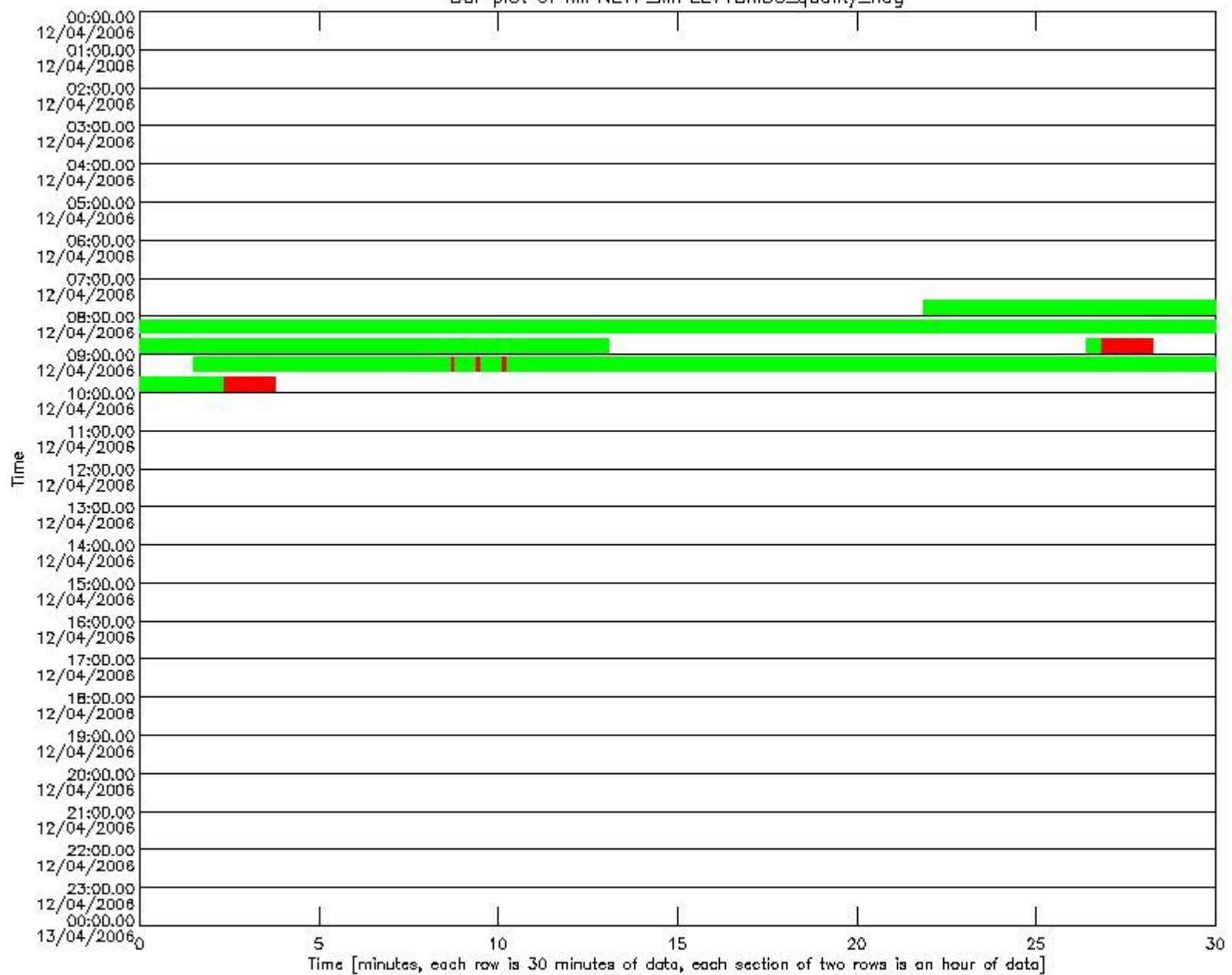




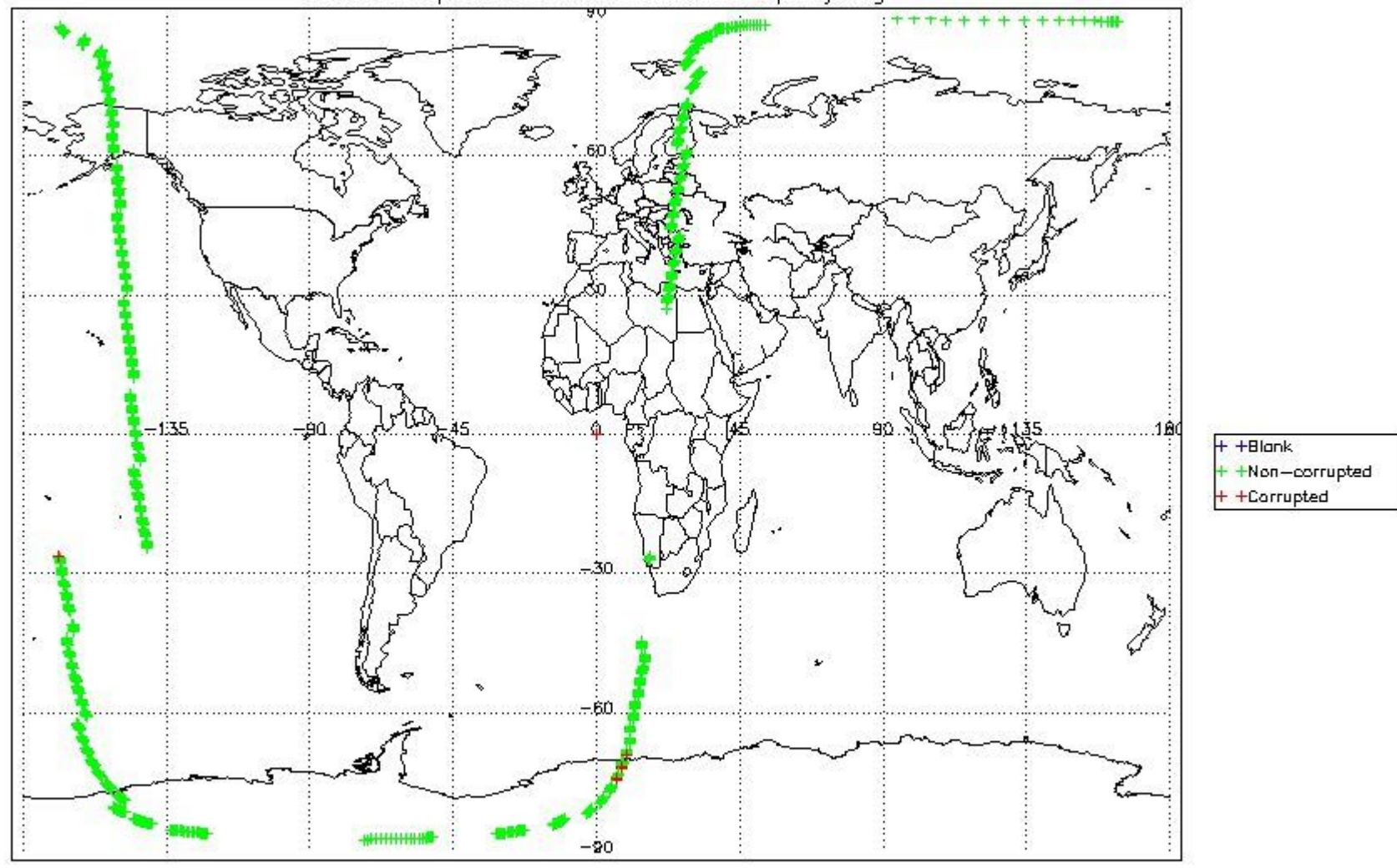
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_13.PNG

### 1.2.2 Trends and geolocation of MIPAS LEVEL 1 MDS

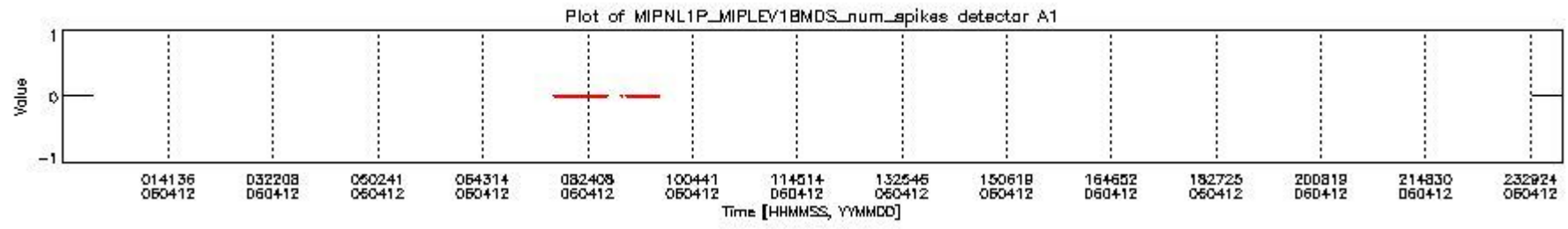
Bar plot of MIPNL1P\_MIPLEV1BMDS\_quality\_flag



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_quality\_flag



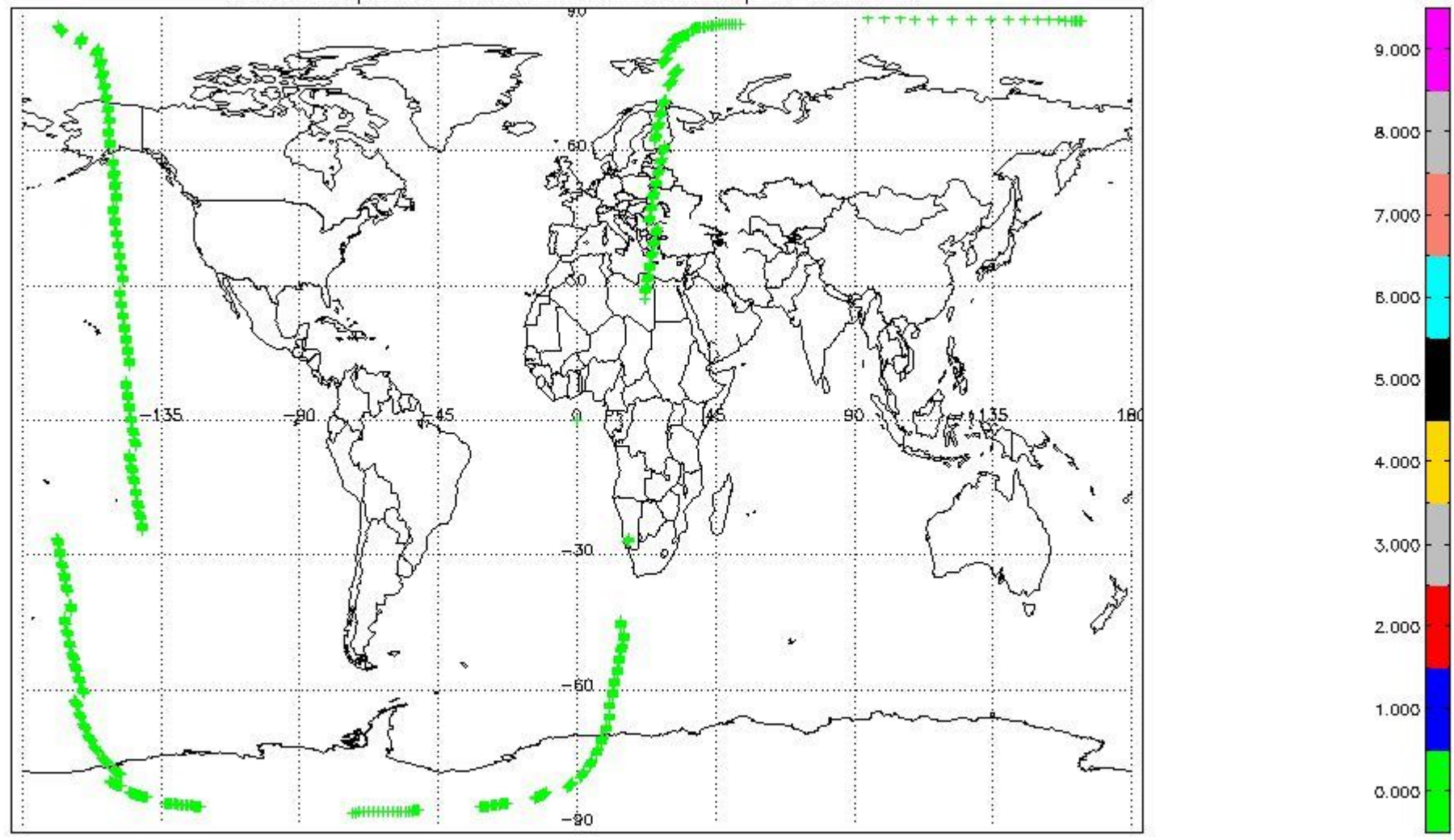
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_15.PNG



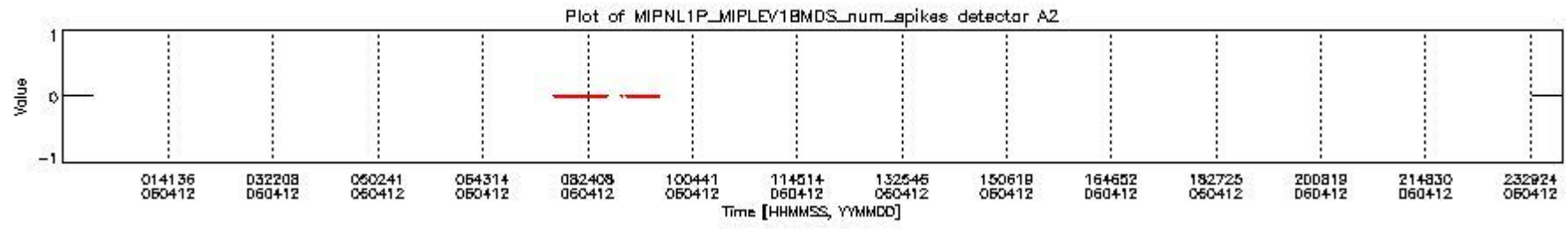
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_16.PNG



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector A1

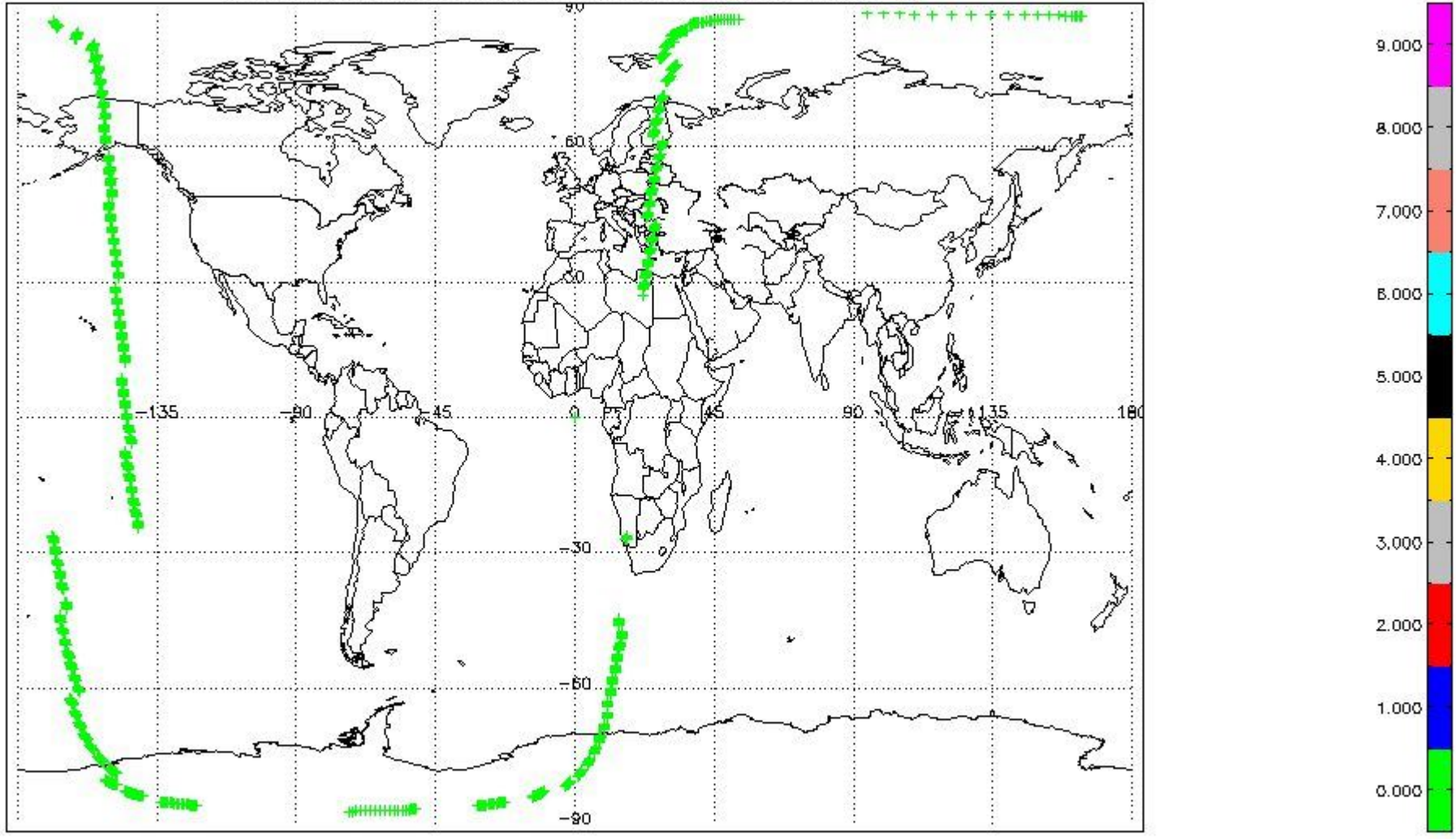


mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_17.PNG

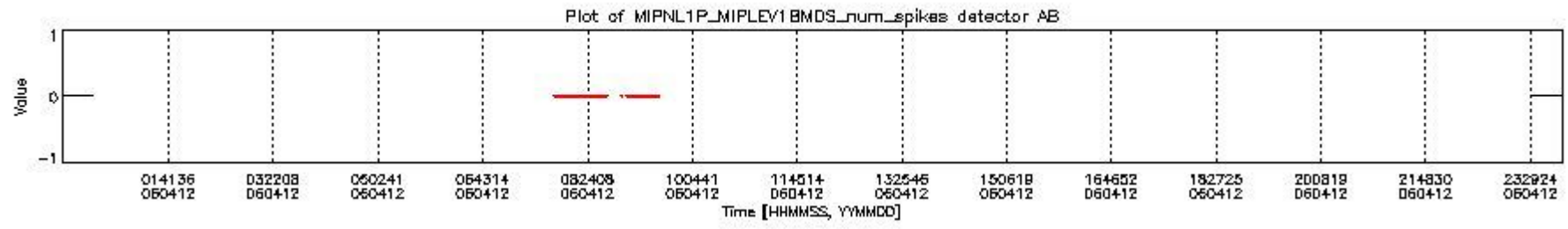


mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_18.PNG

Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector A2

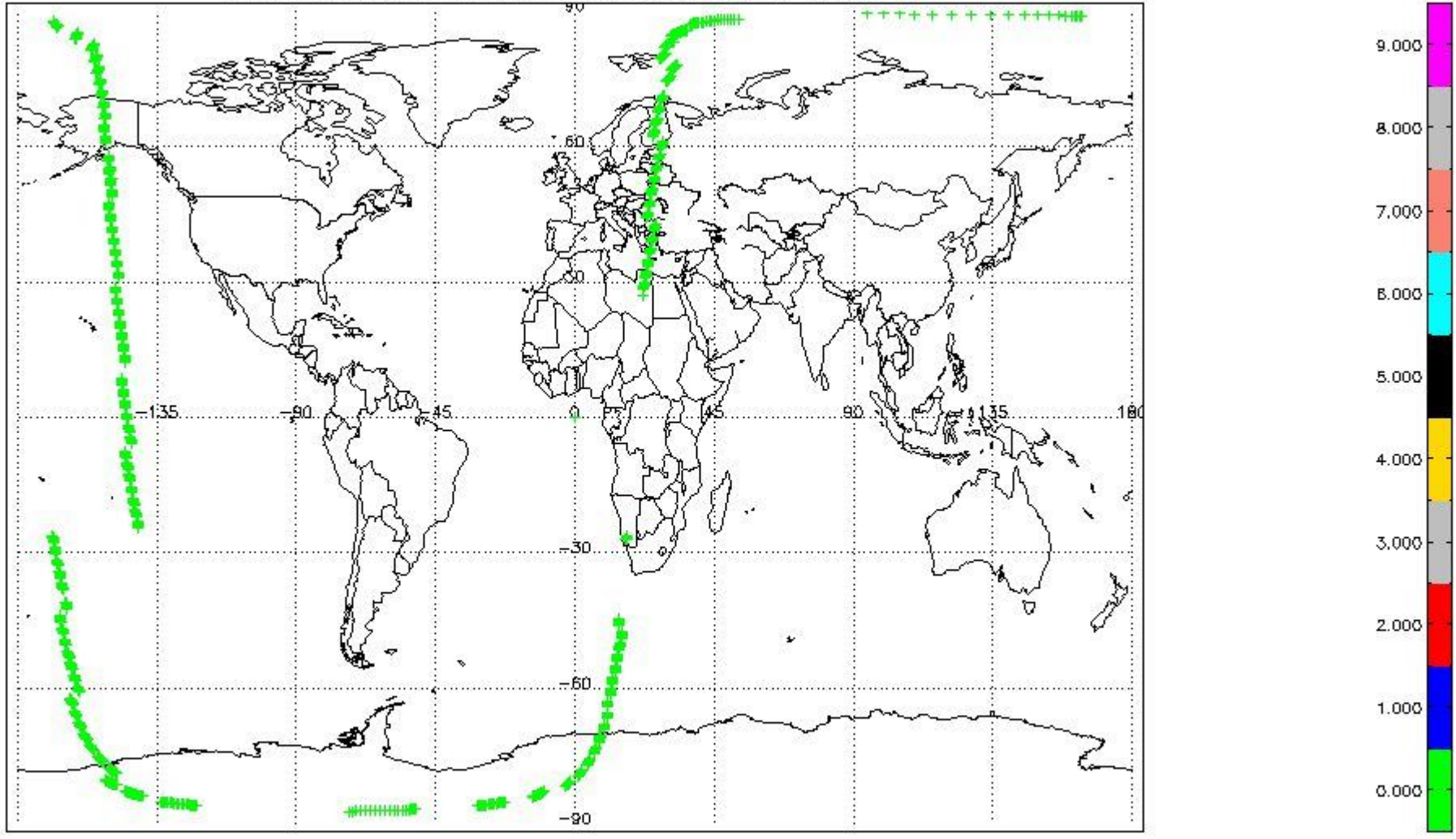


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_19.PNG

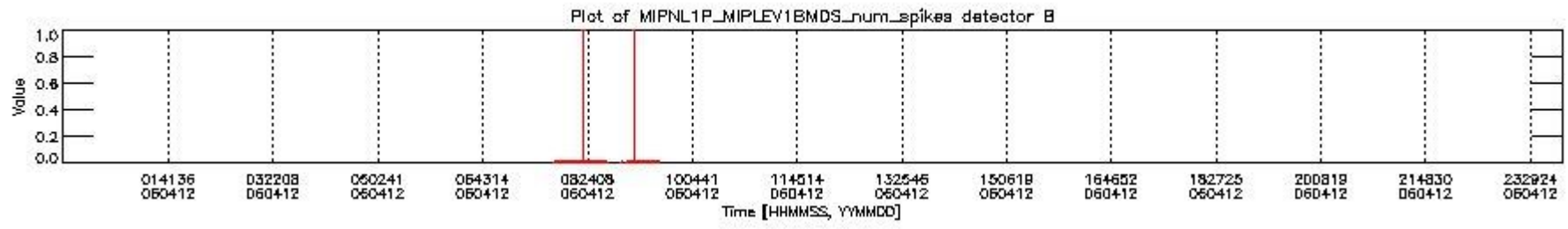


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_20.PNG

Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector AB



mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_21.PNG

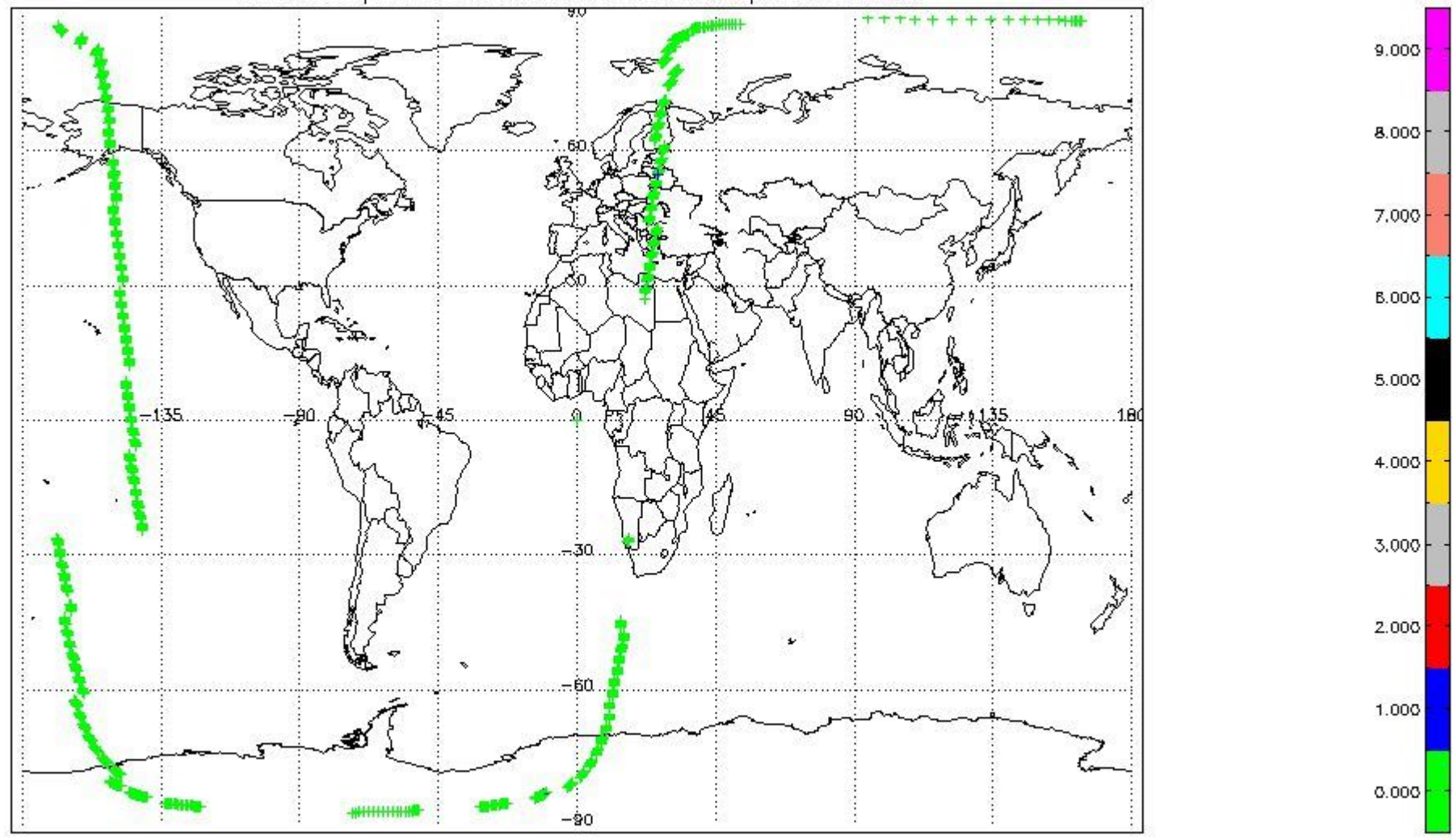


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_22.PNG

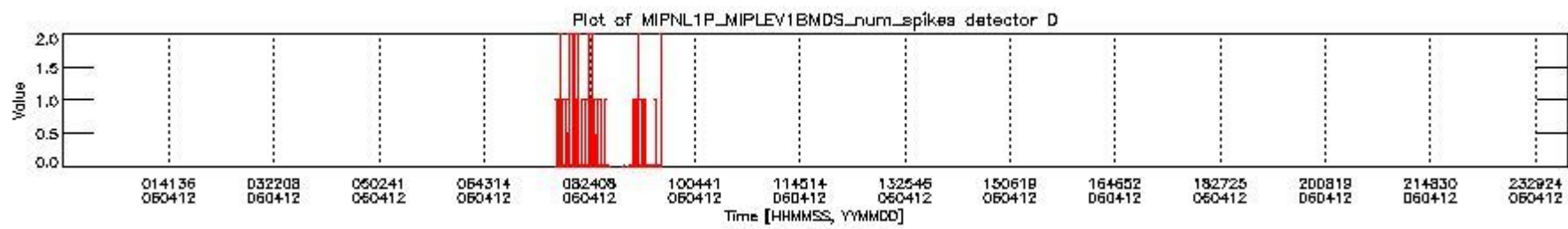




Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector C



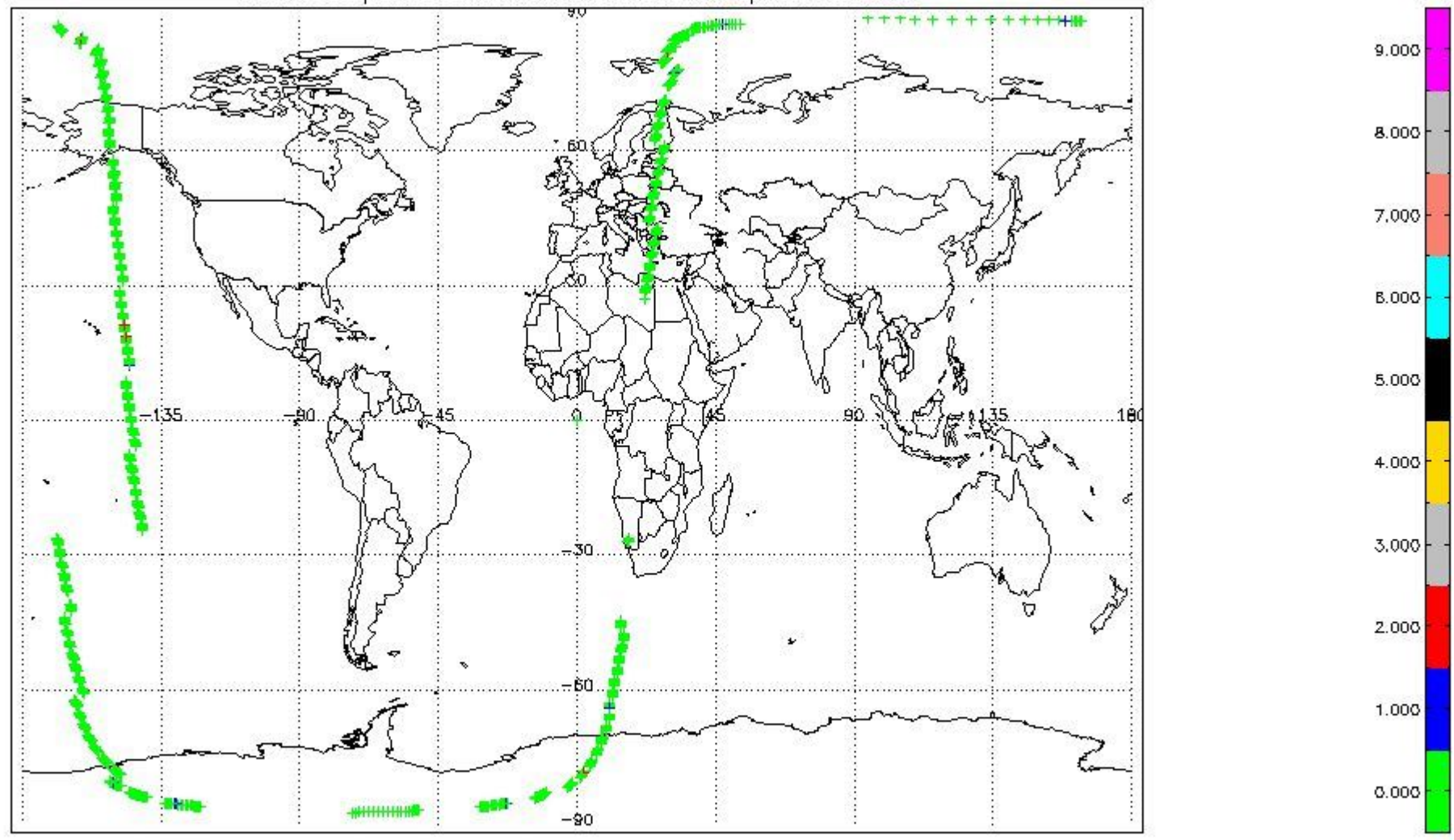
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_25.PNG



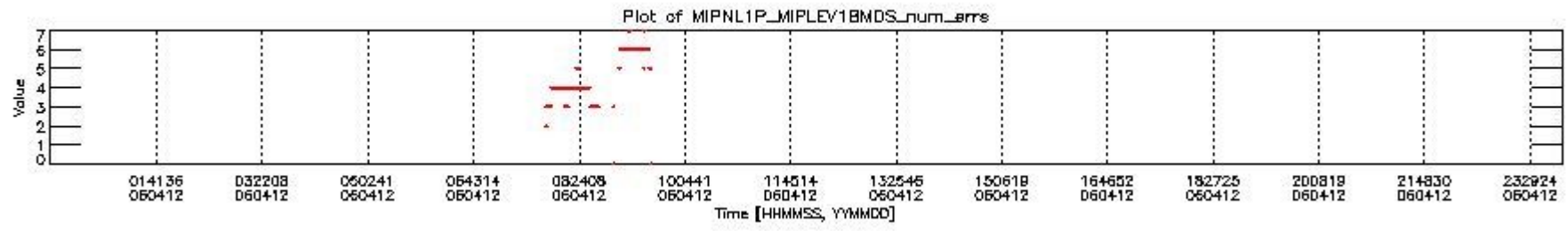
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_26.PNG



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector D



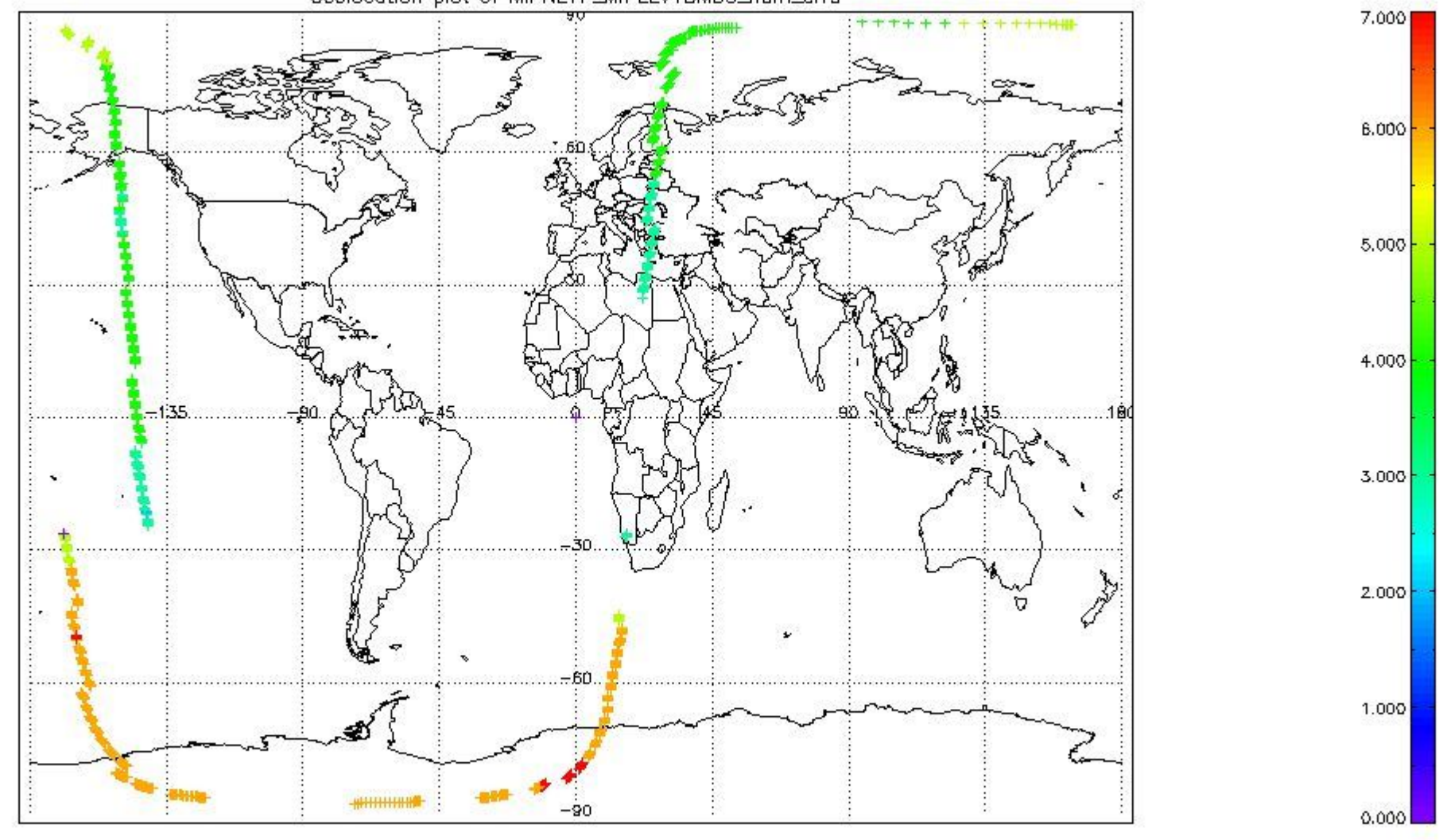
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_27.PNG



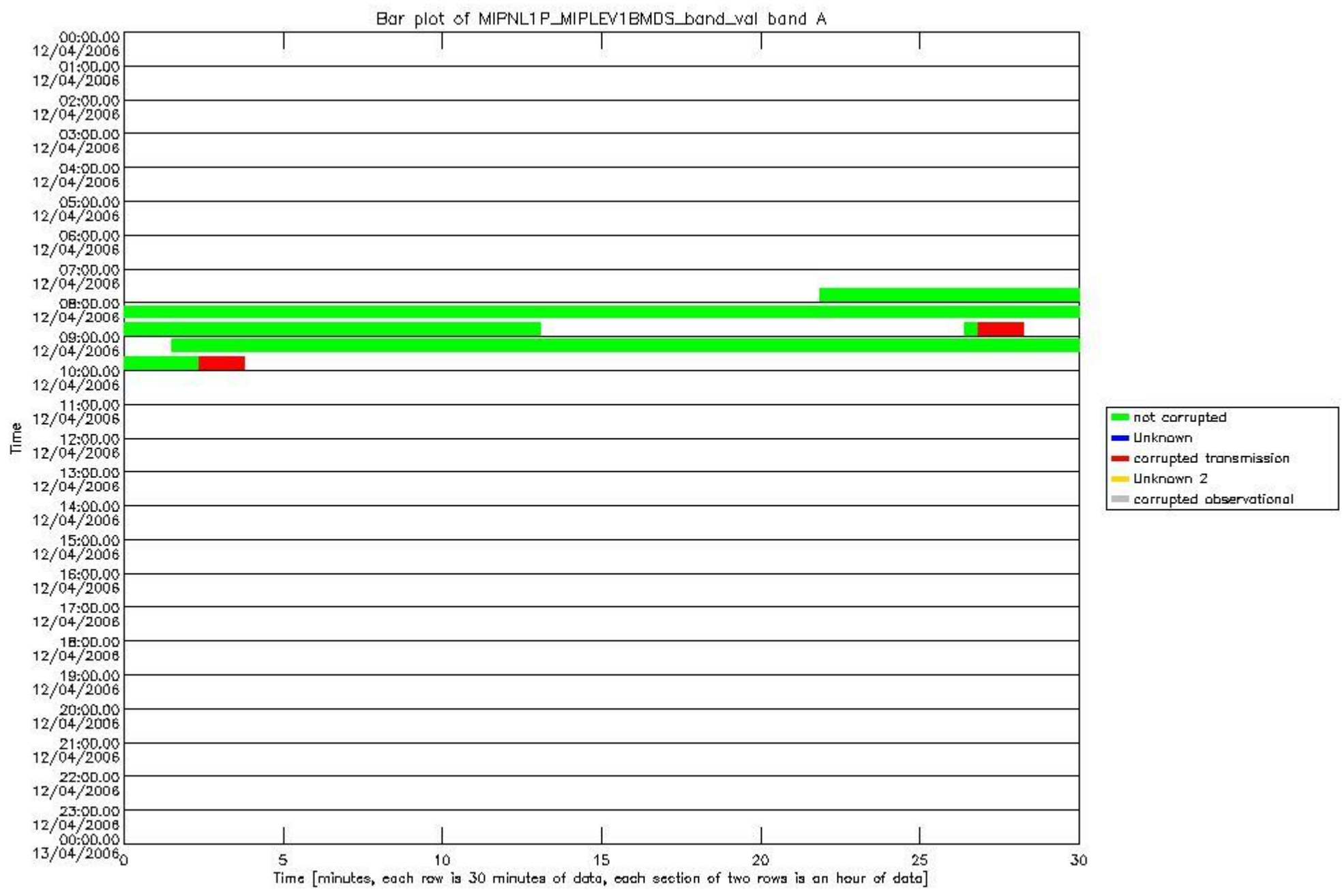
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_28.PNG



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_errs

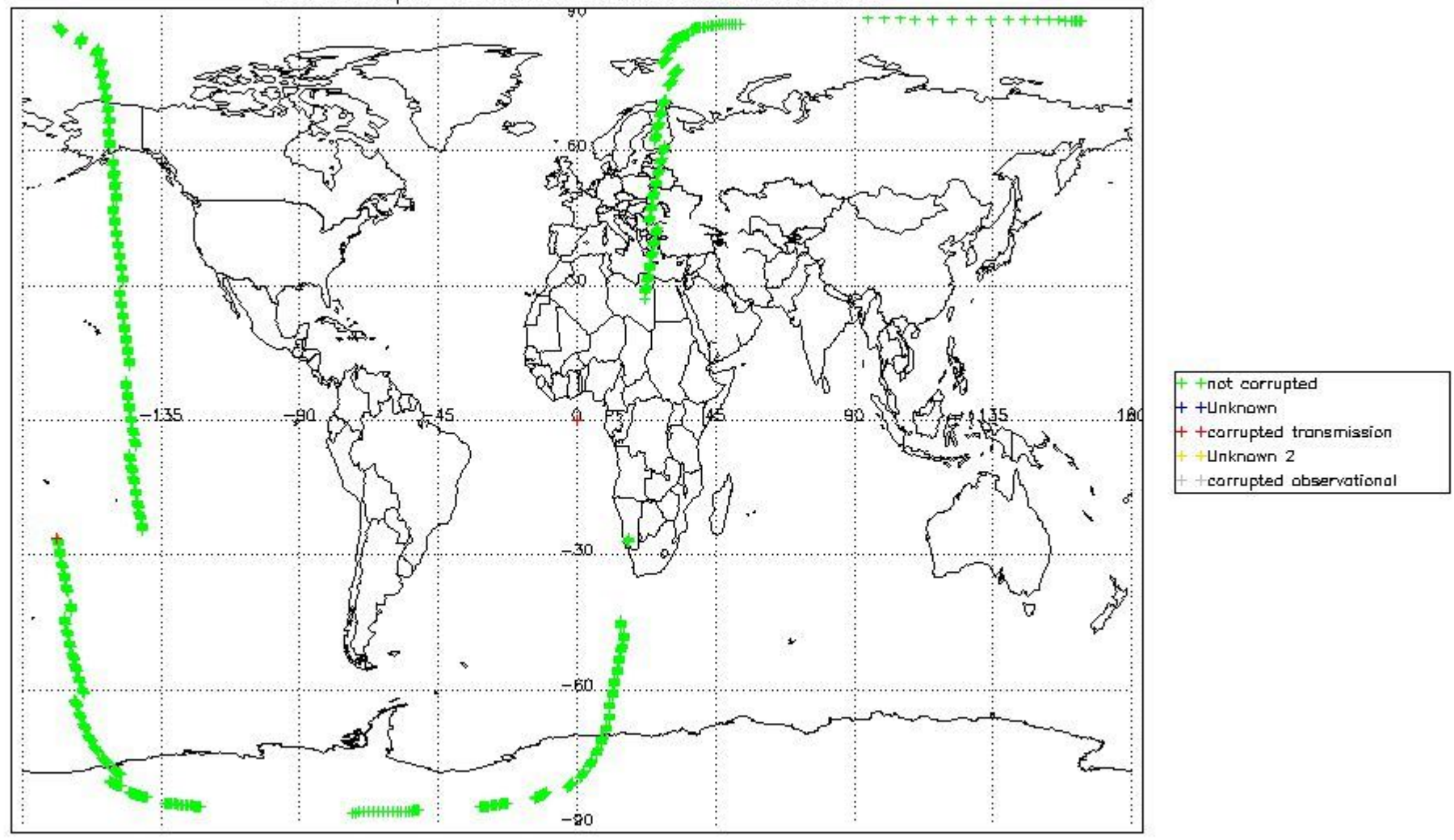


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_29.PNG



mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_30.PNG

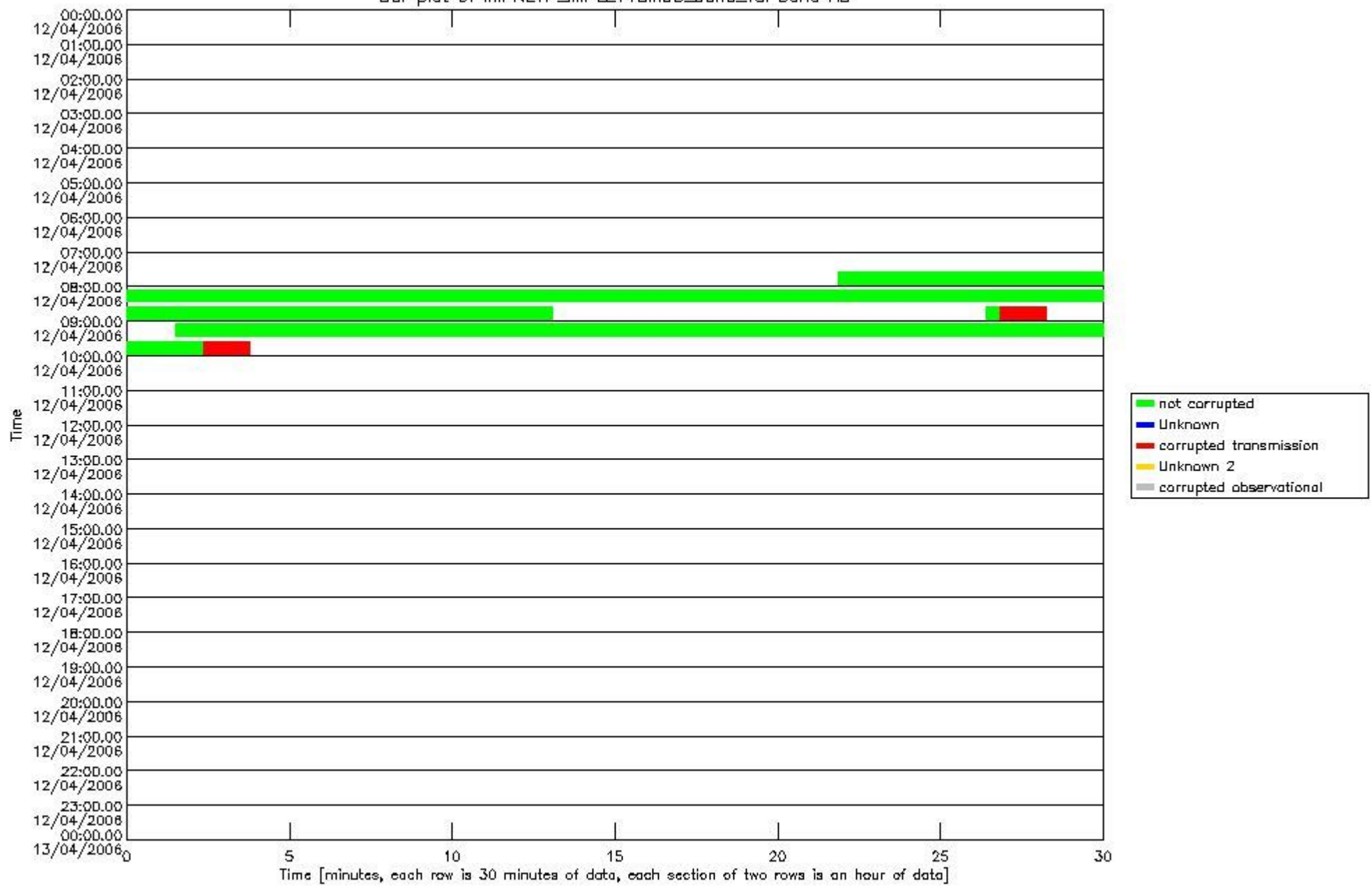
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_Lval band A



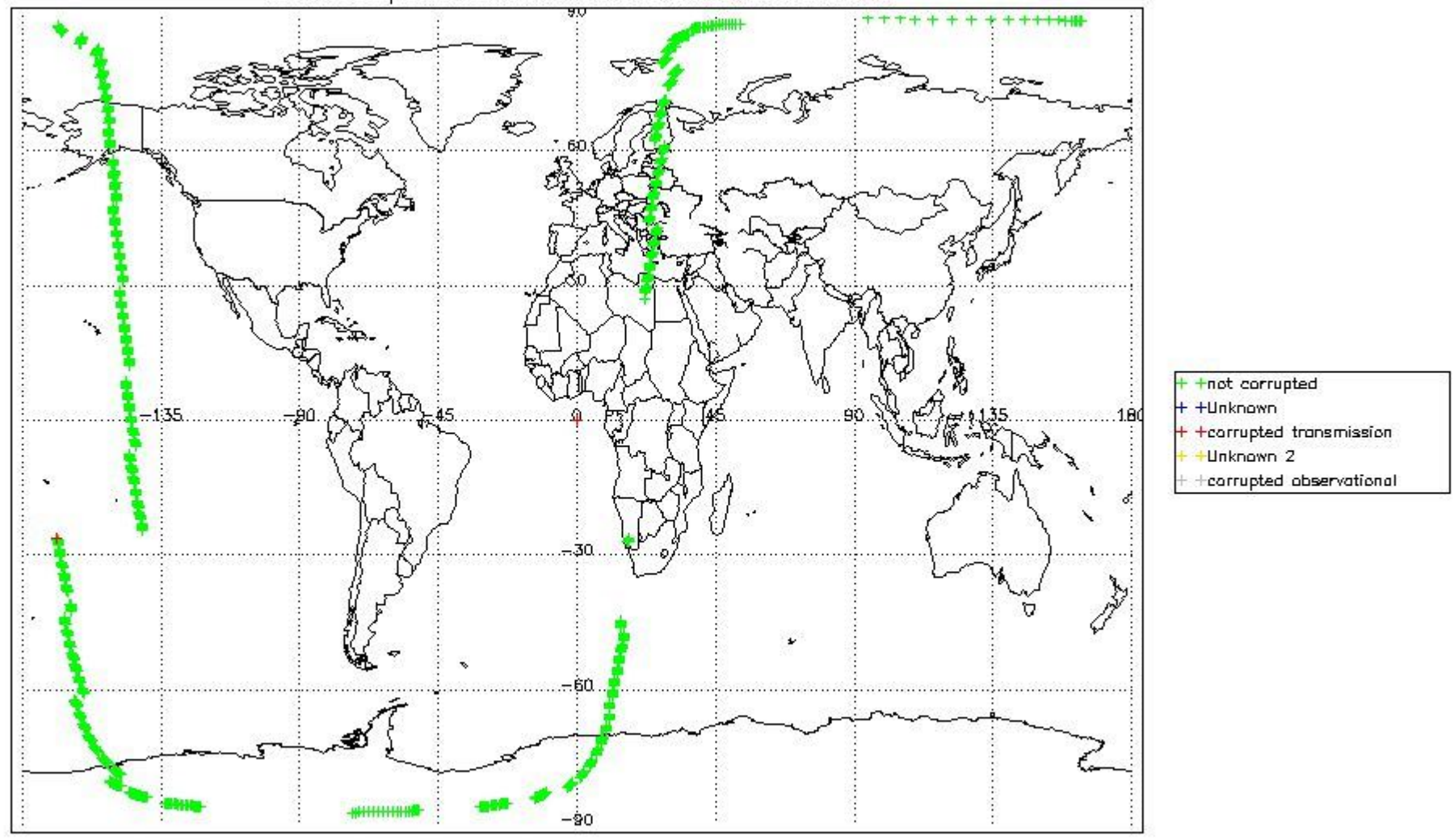
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_31.PNG

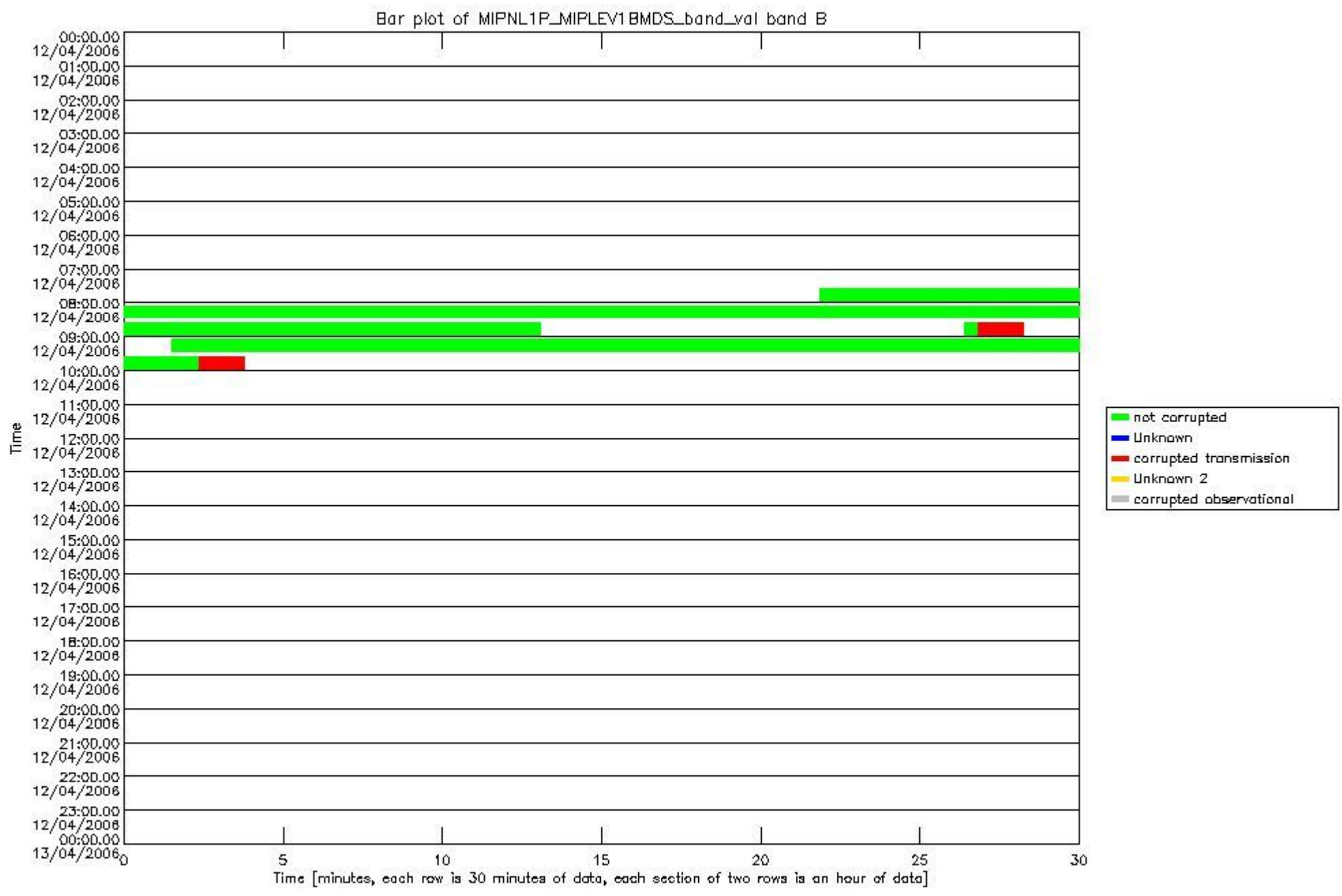


Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band AB



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band AB

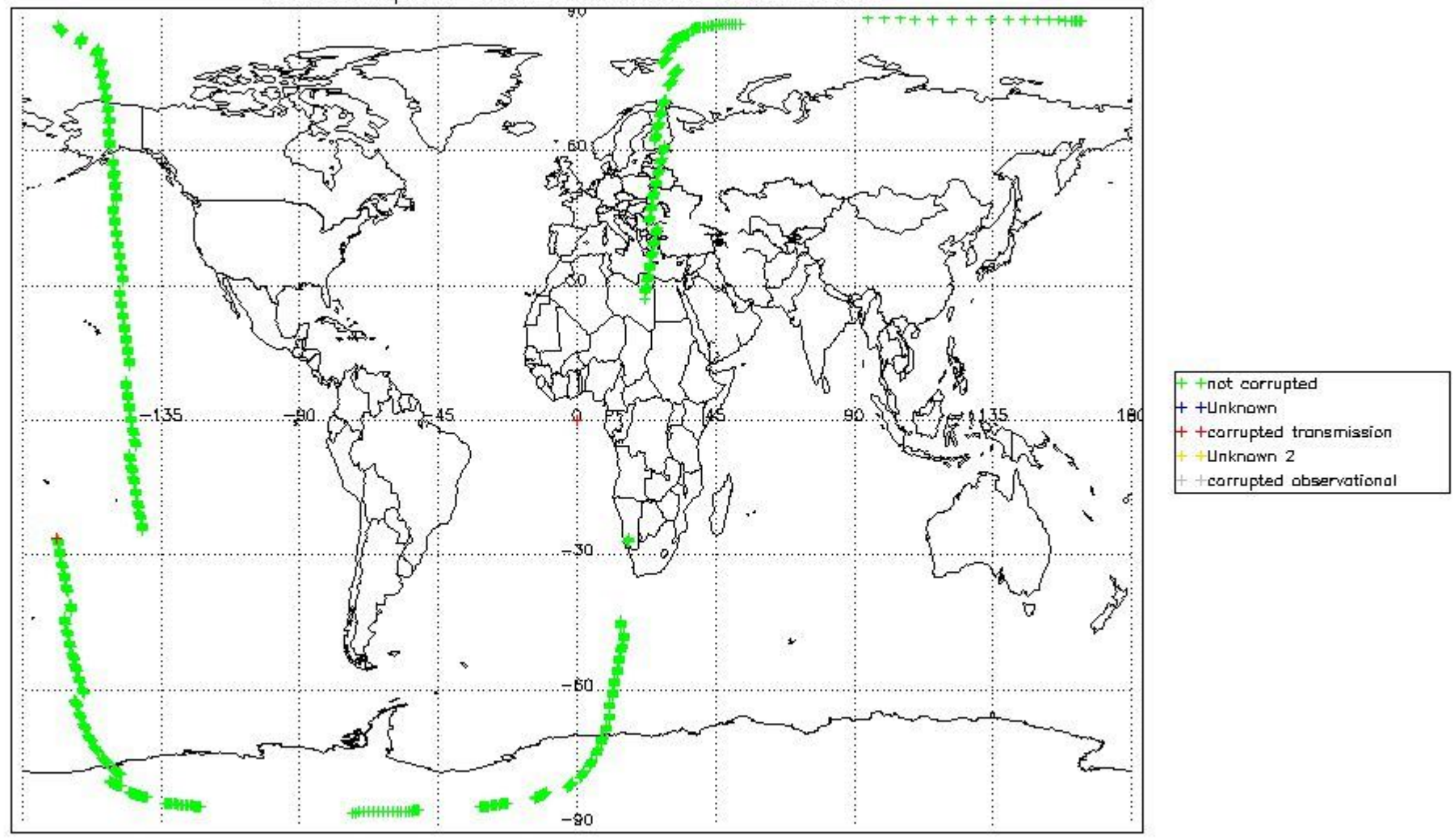




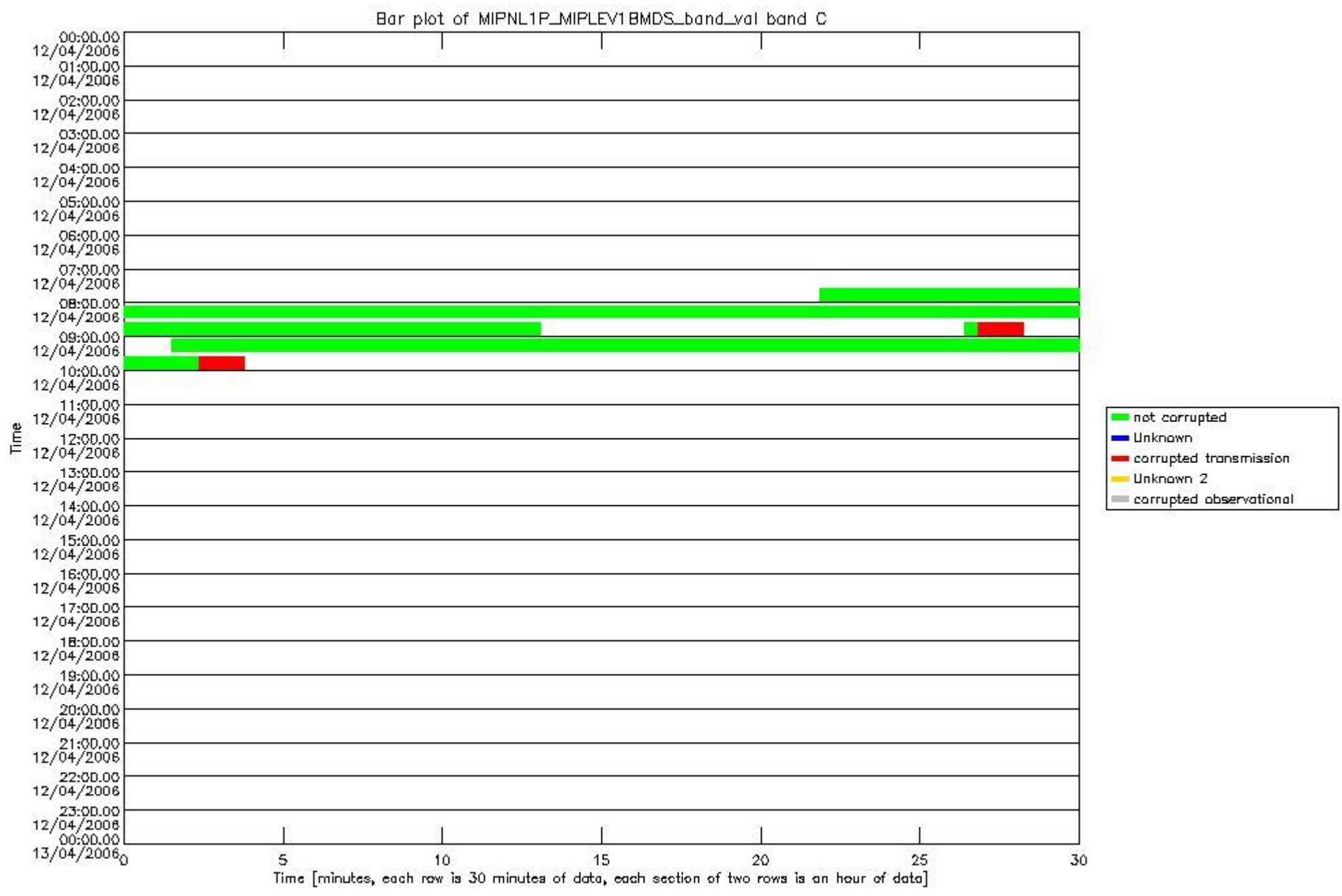
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_34.PNG



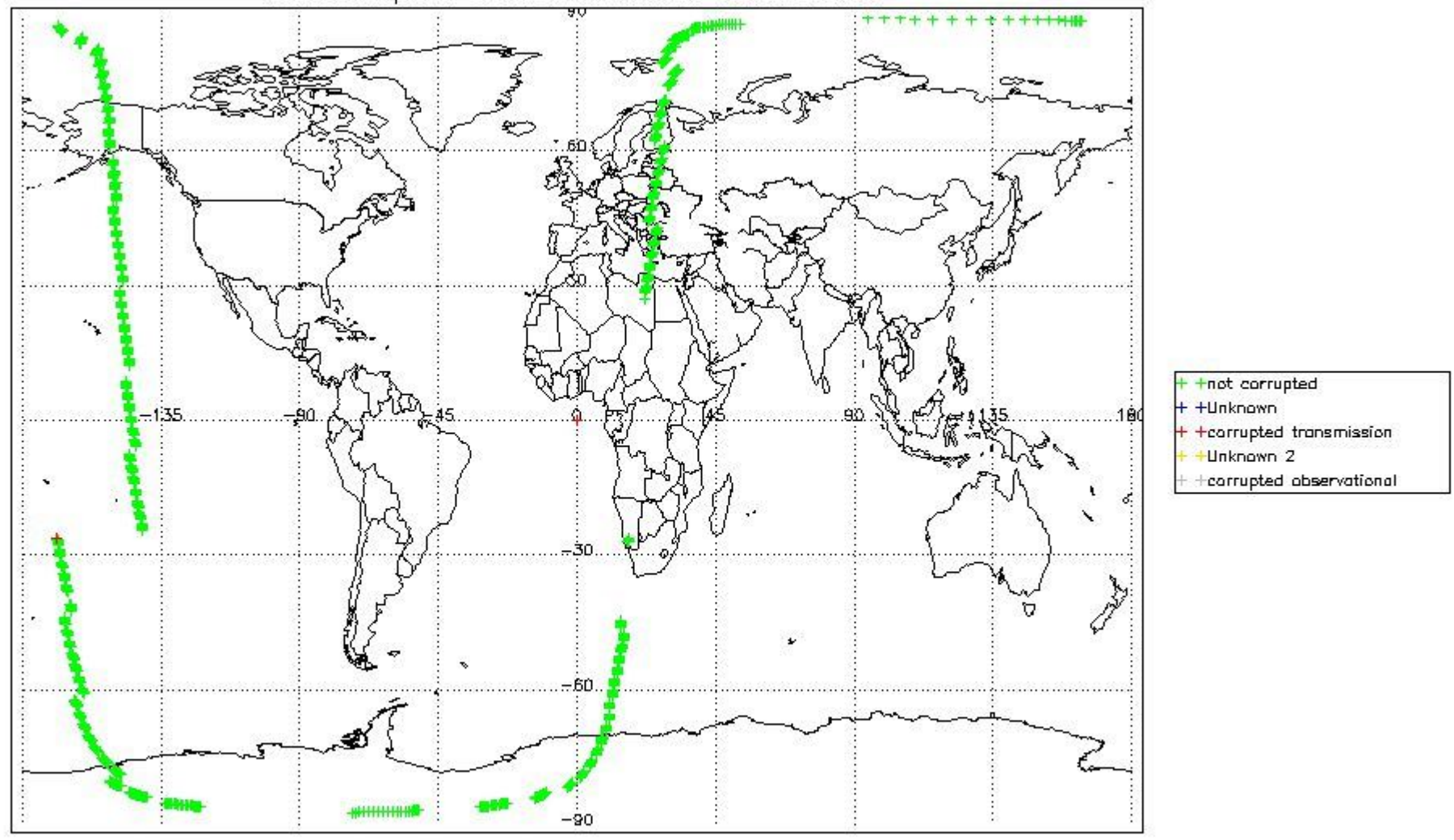
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band B



mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_35.PNG

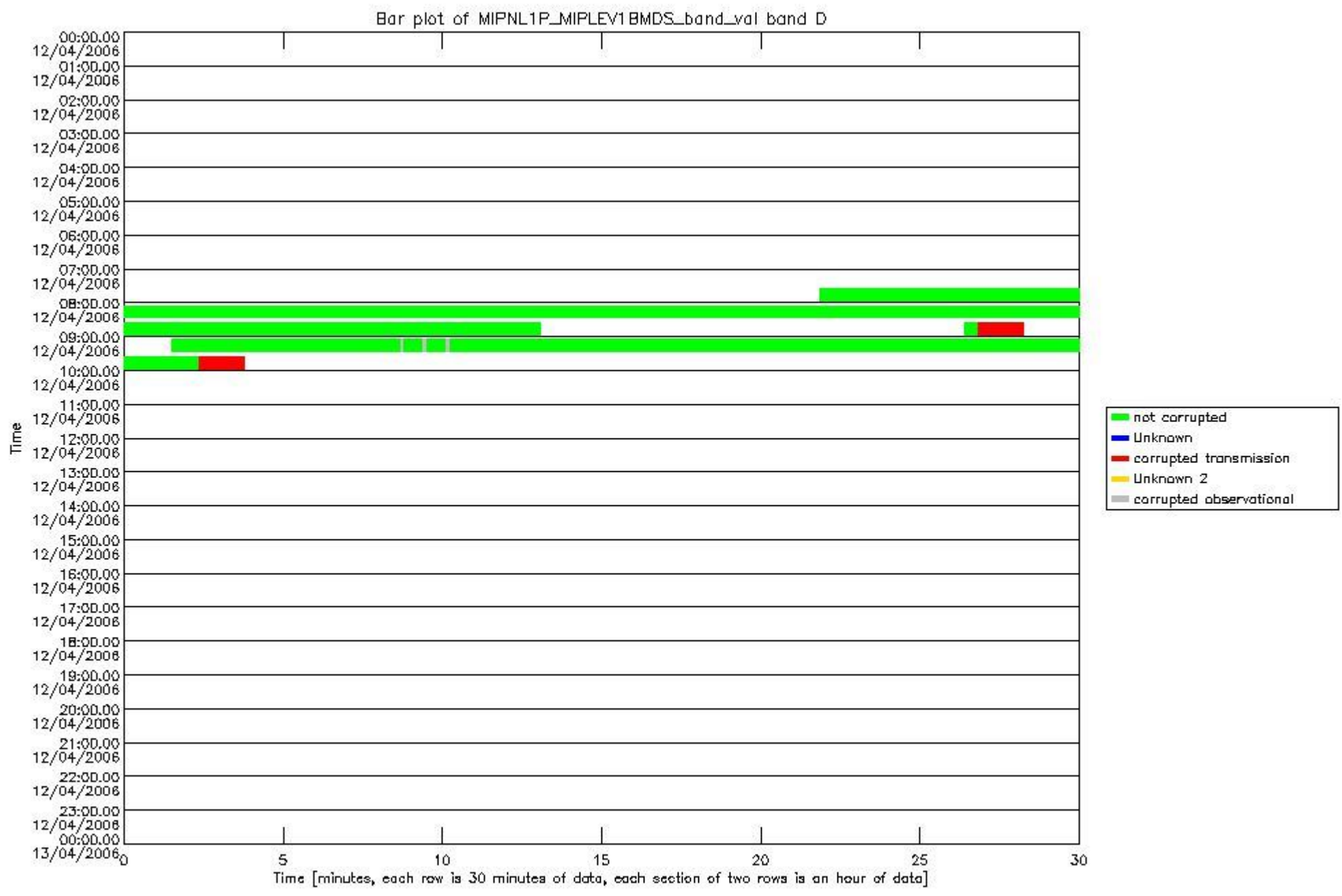


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band C

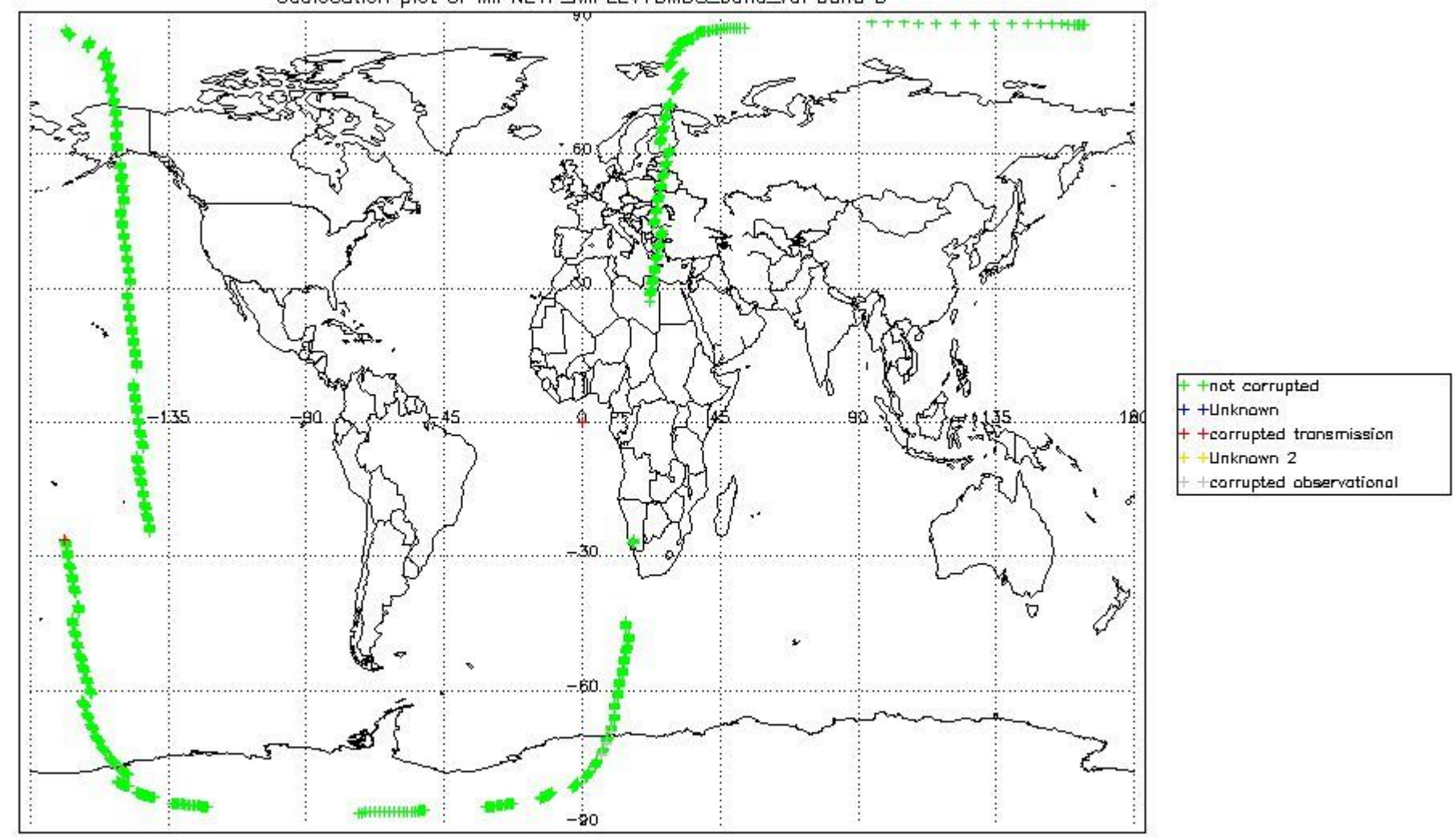


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_37.PNG

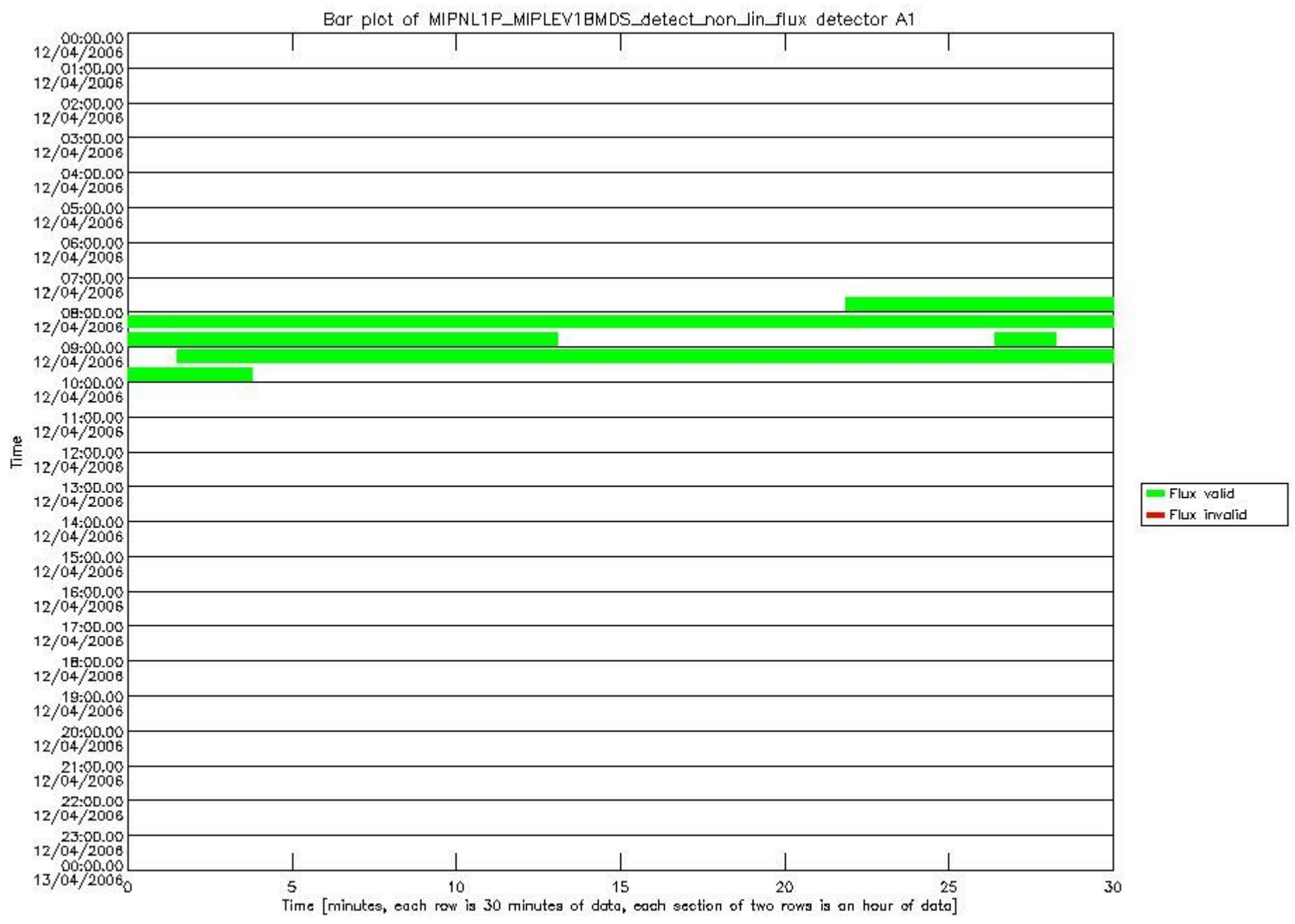




Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band D

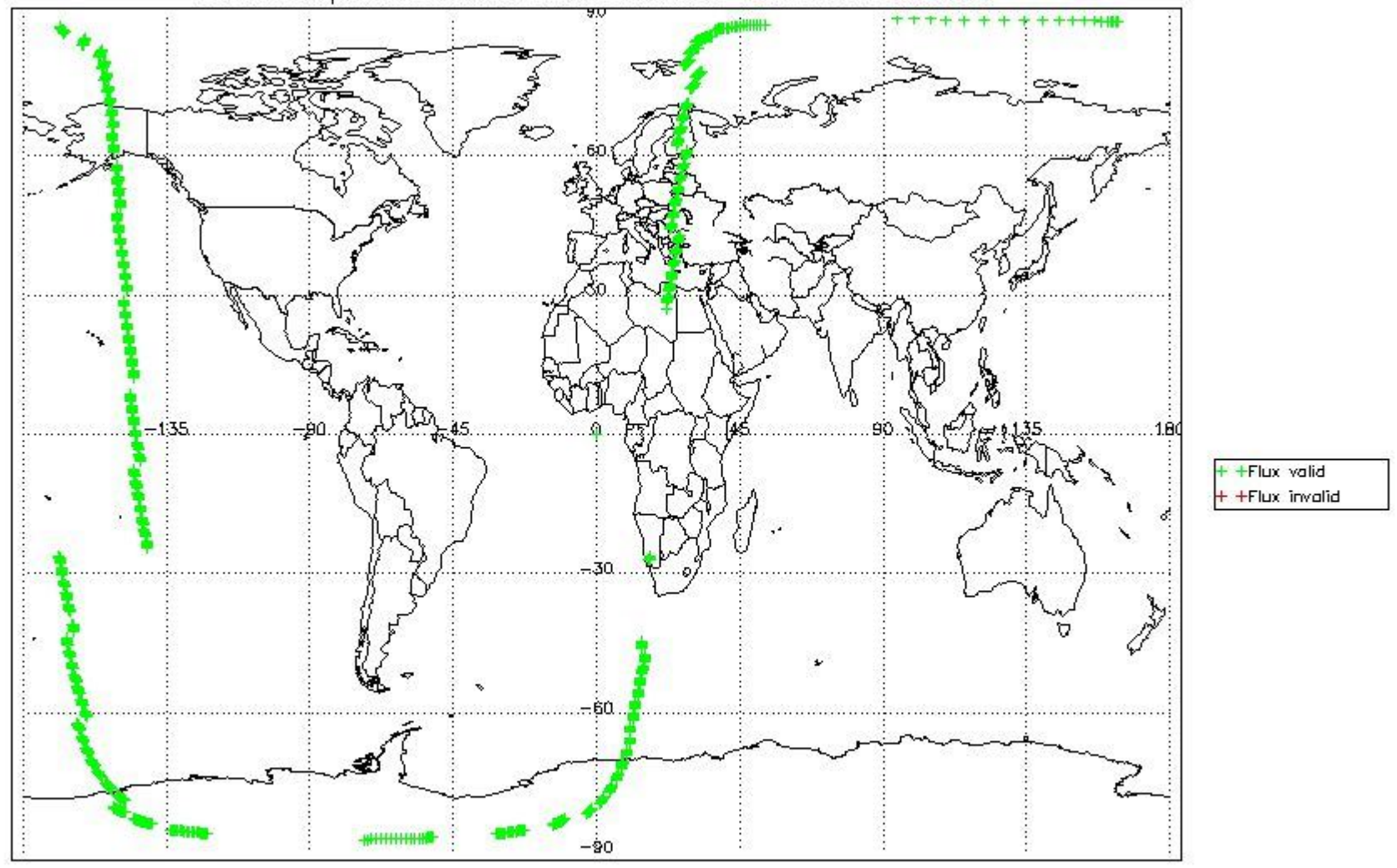


mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_39.PNG



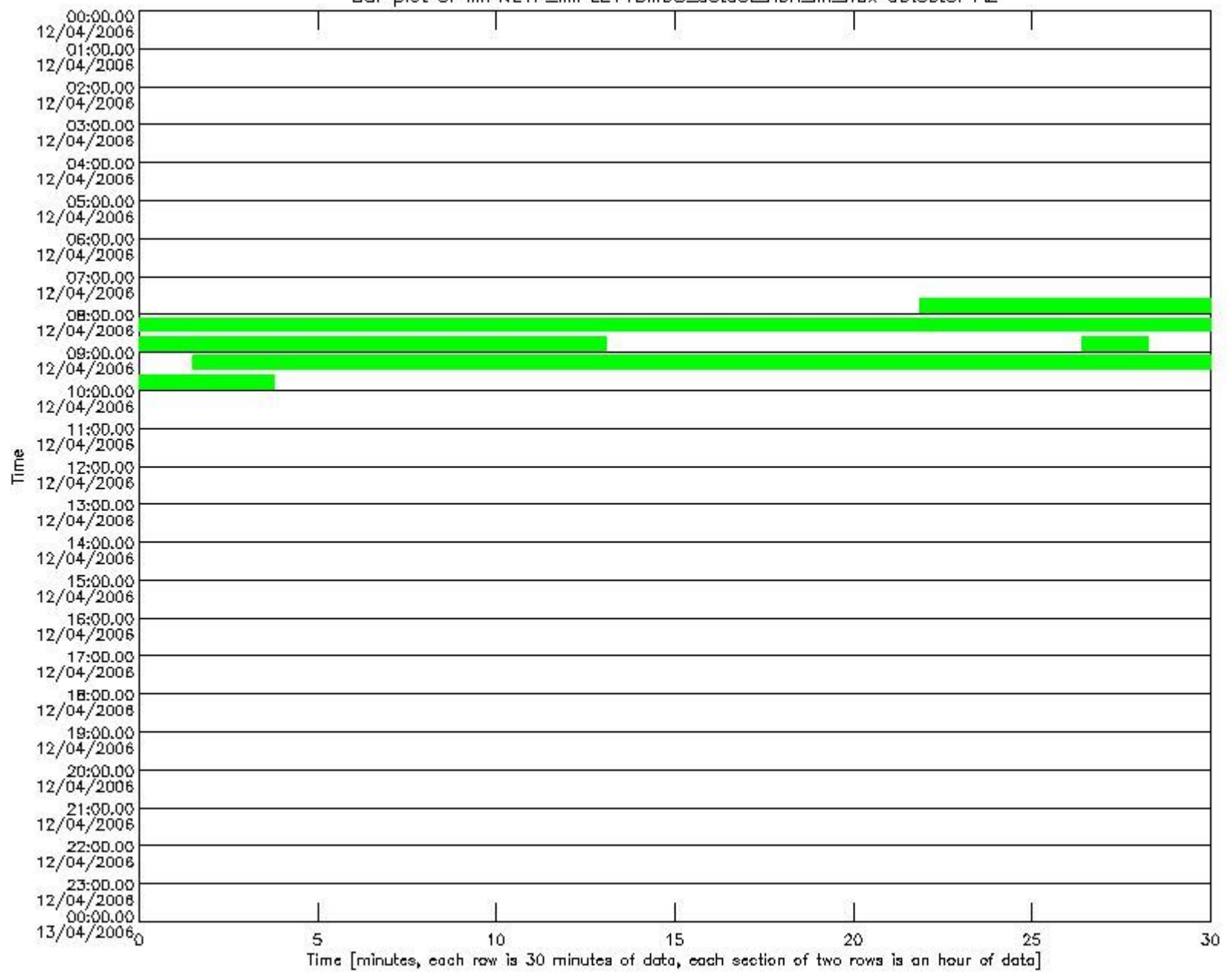


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_in\_flux detector A1

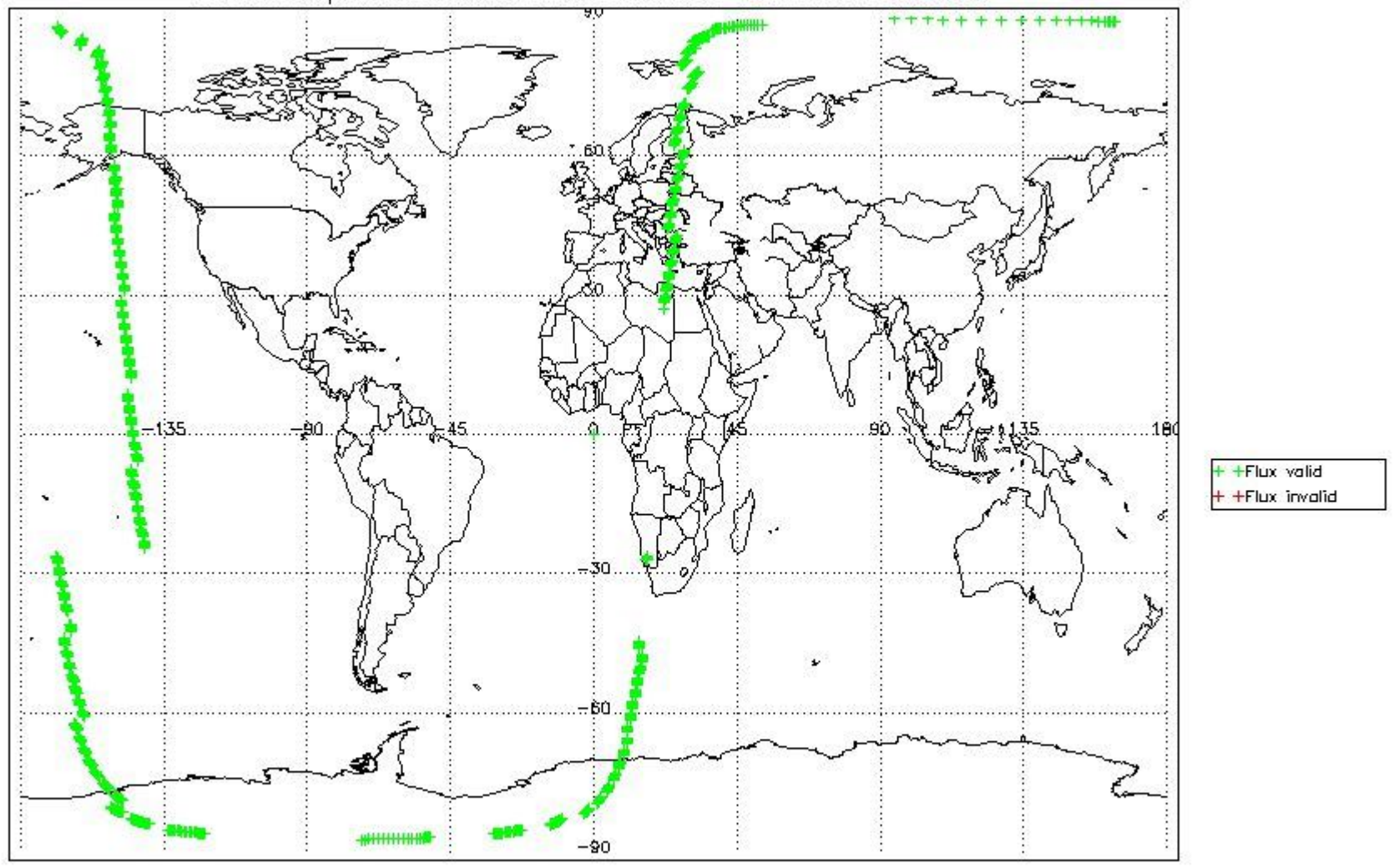


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_41.PNG

Bar plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_in\_flux detector A2

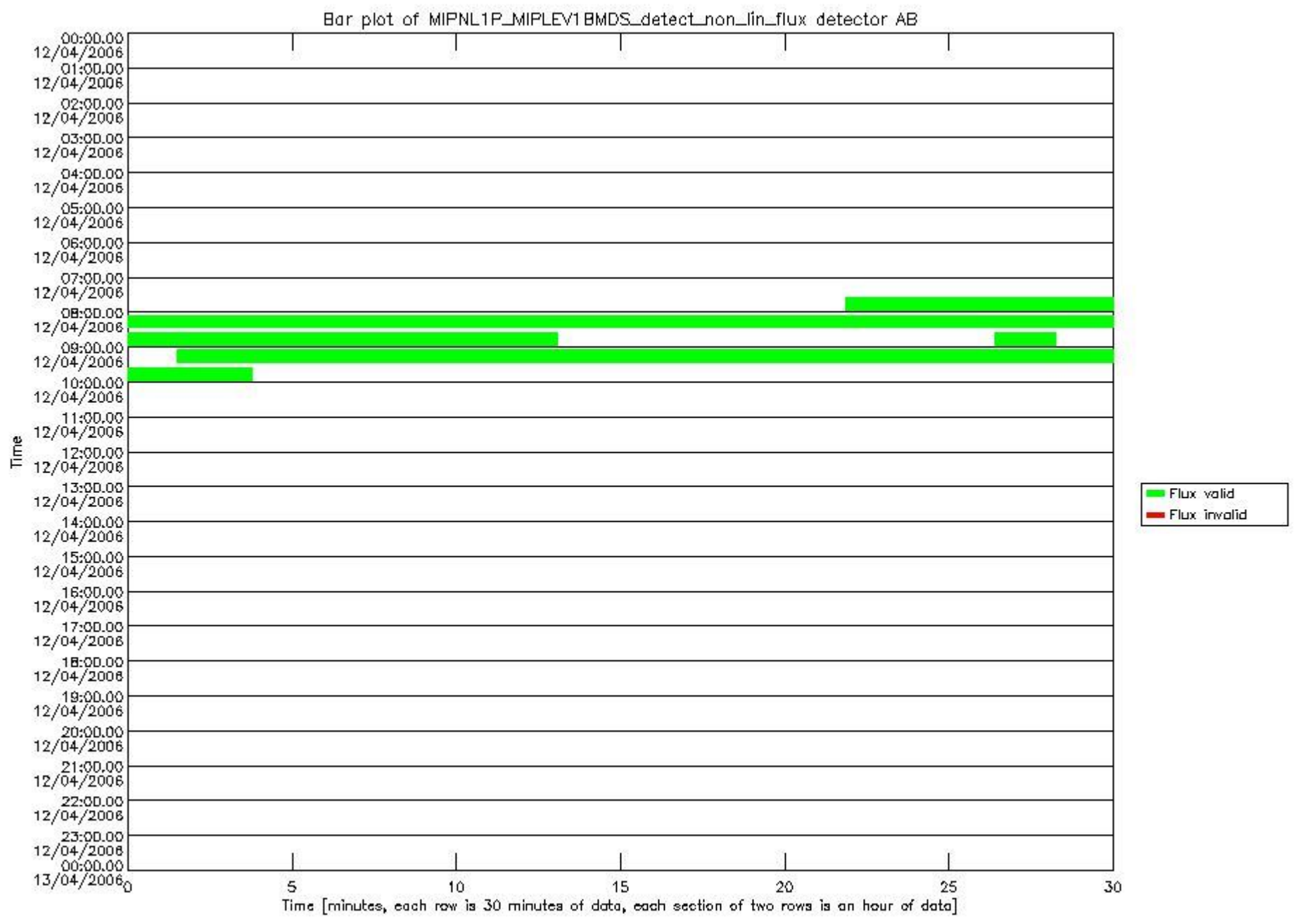


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_jin\_flux detector A2

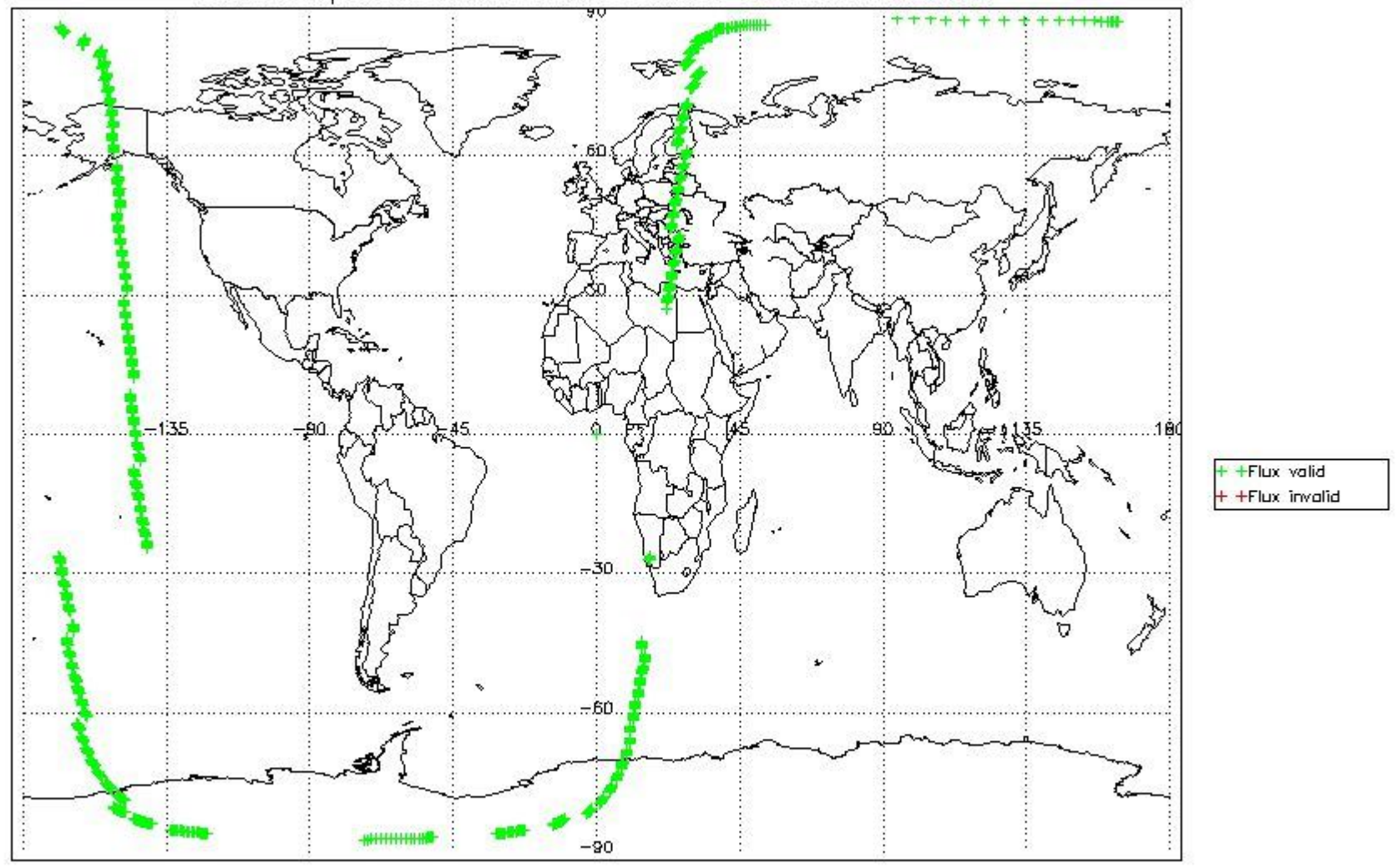


mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_43.PNG

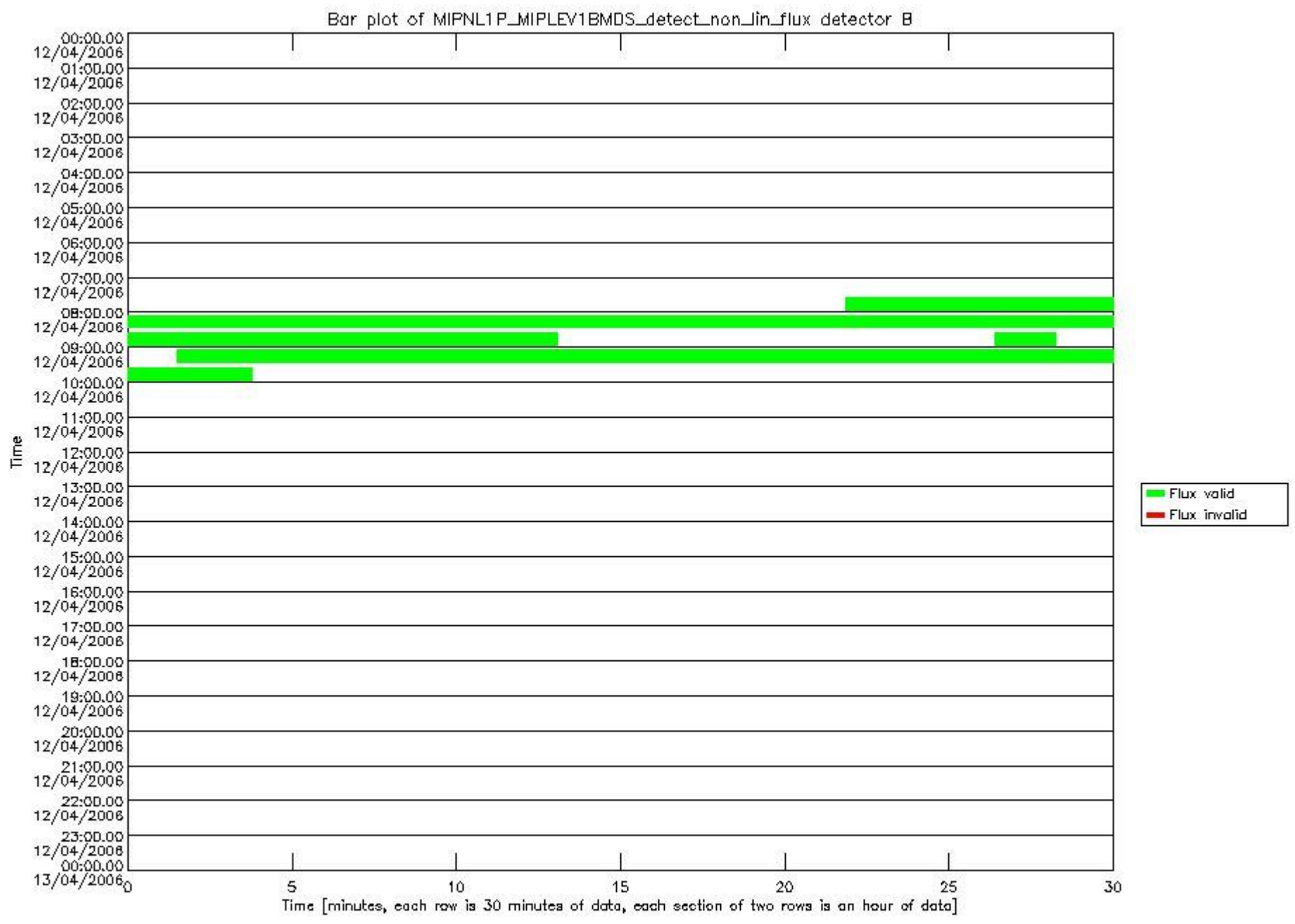


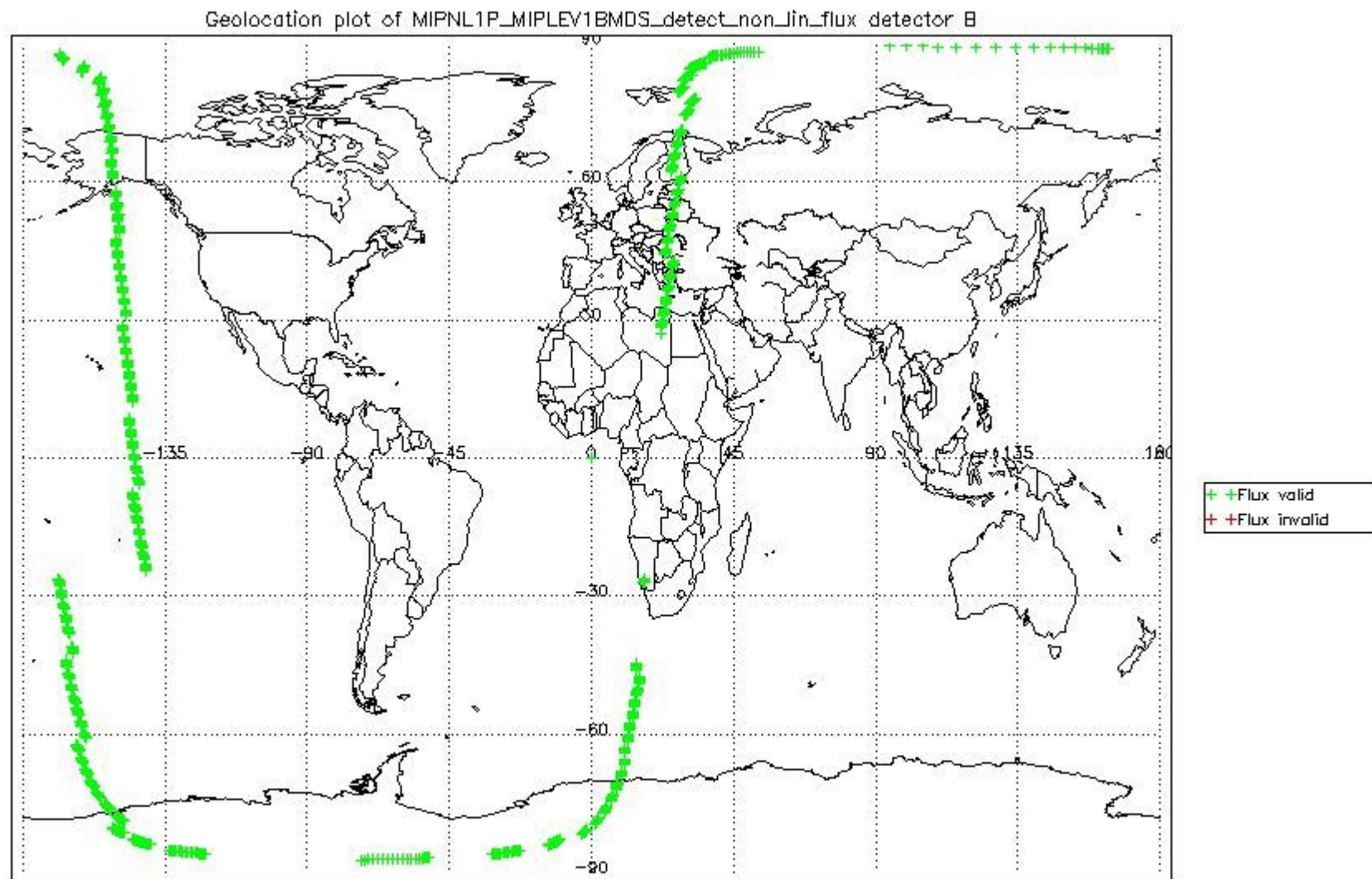


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_lin\_flux detector AB



mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_45.PNG





mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_47.PNG

### 1.2.3 Scan information ADS

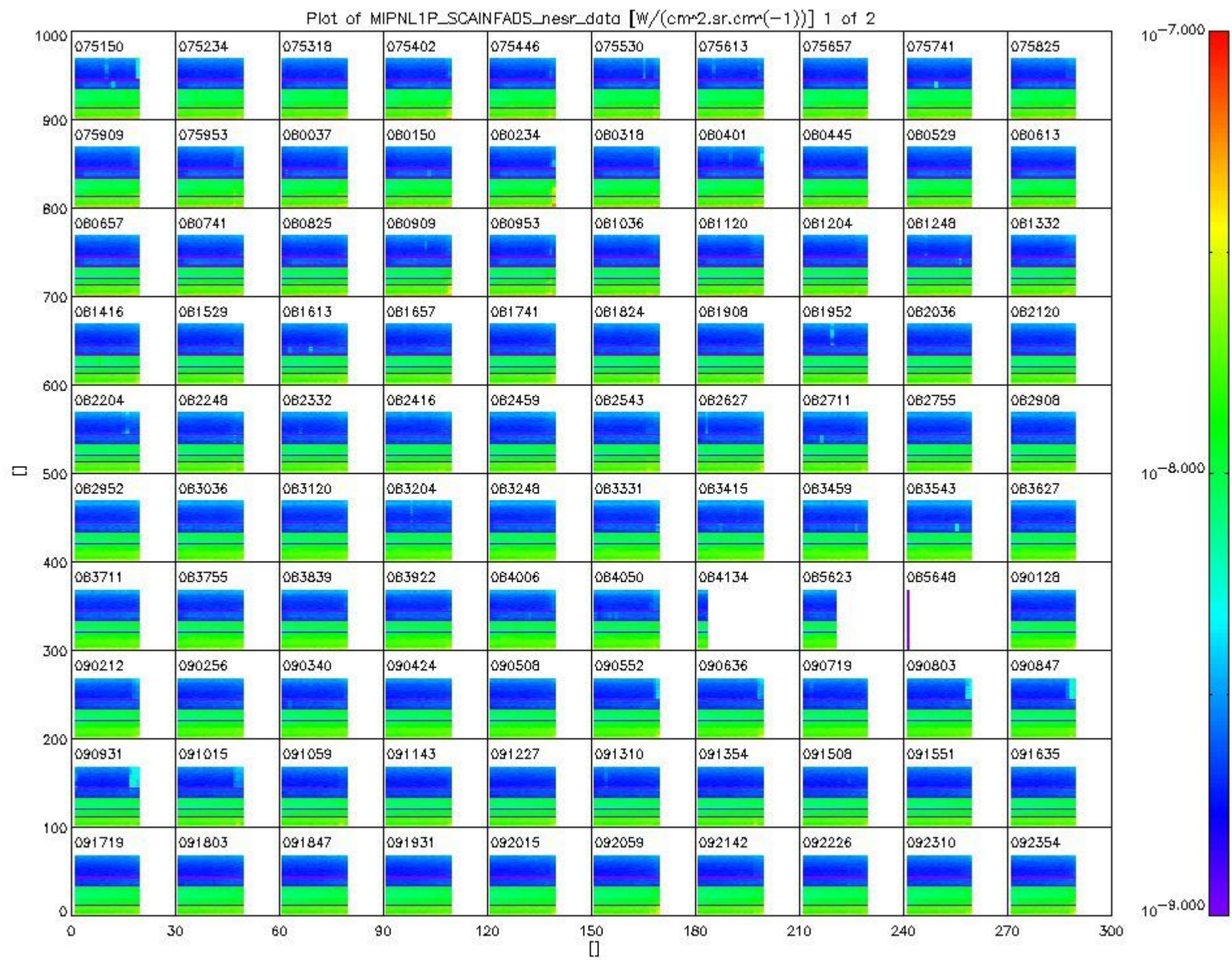
The following plots each contain 100 squares. Each square contains one NESR-scan (from MIPNL1P\_SCAINFADS\_nesr\_data).

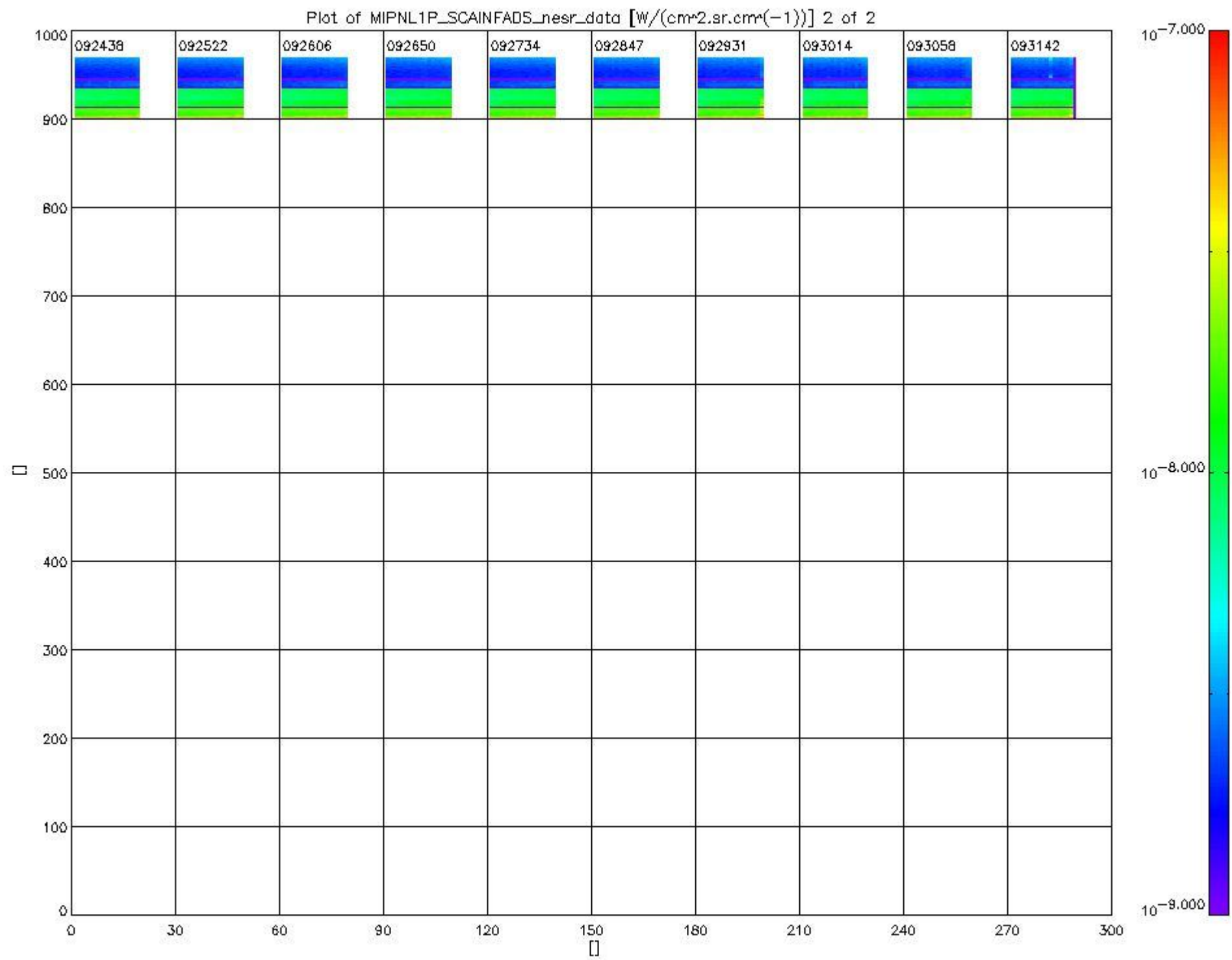
The horizontal axis represents the sweep ID (starts at 1). A maximum of 19 sweeps per scan can be displayed.

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.



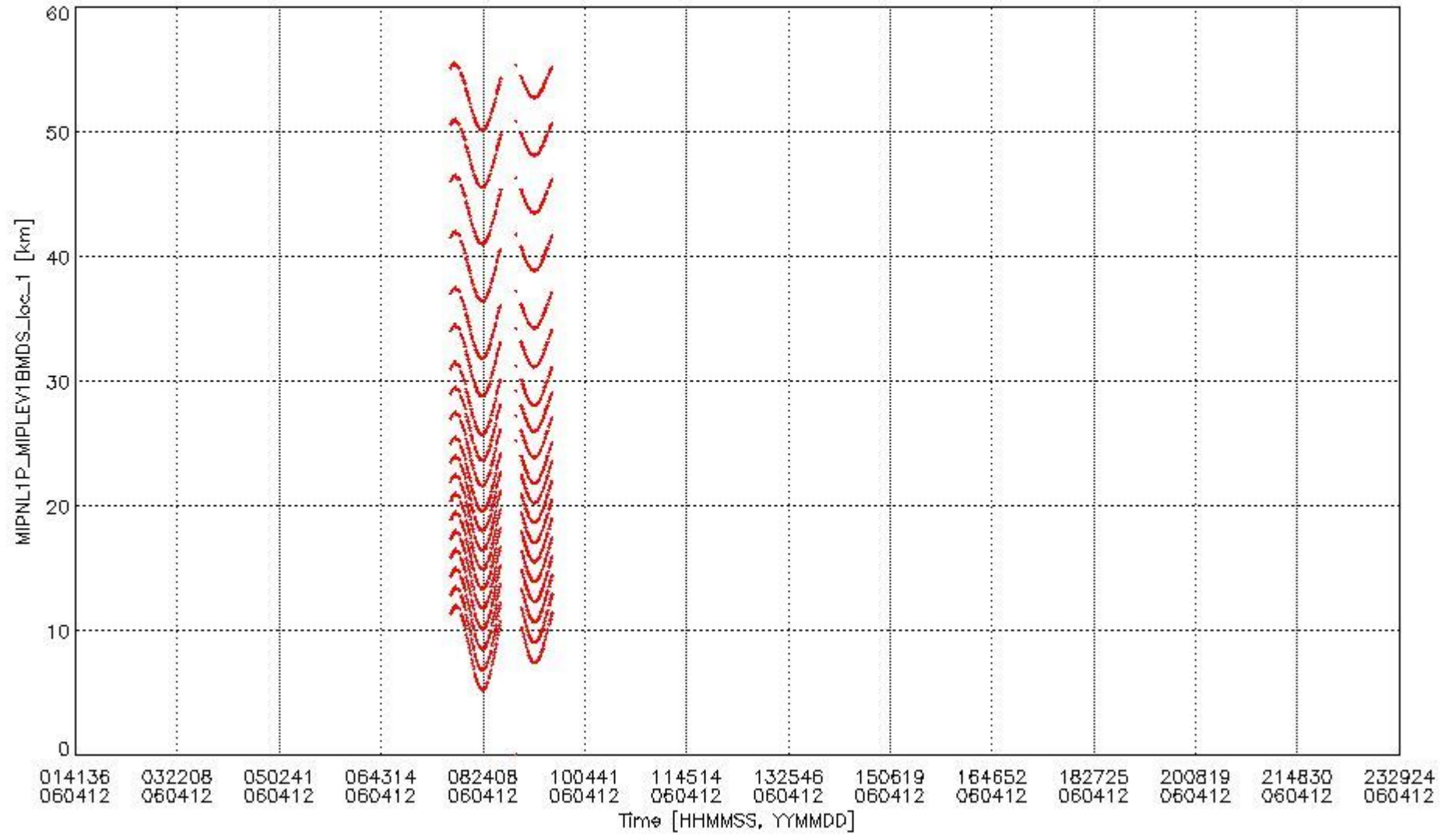




mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_49.PNG

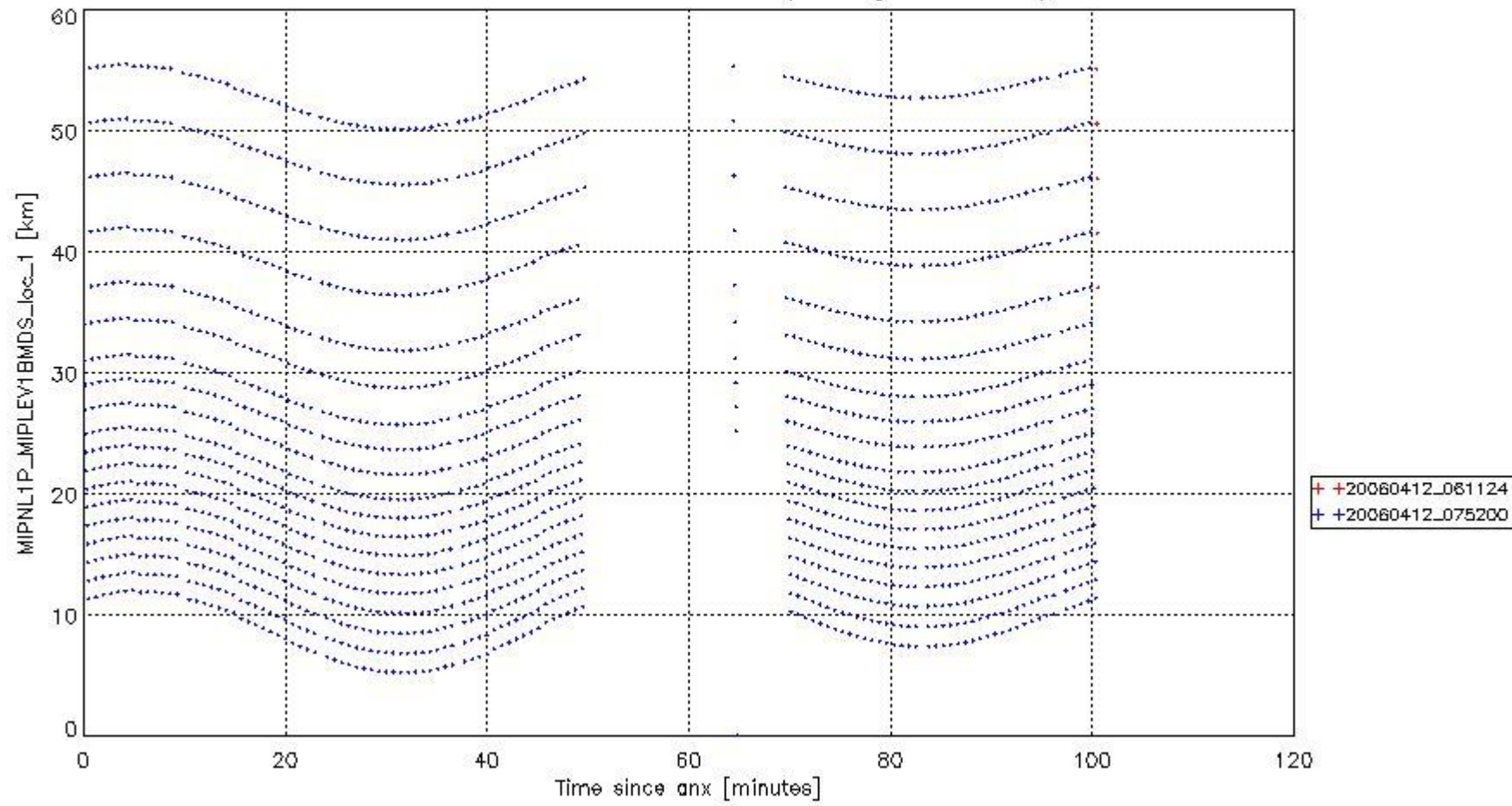
### 1.3 Physical Quality Indicators

Plot of MIPNL1P\_MIPLEV1BMDS\_loc\_1 against time.  
The vertical grid lines indicate estimated anx events.





Plot of MIPNL1P\_MIPLEV1BMDS\_loc\_1 against relative time within orbit.  
The colours indicate distinct orbits (see legend for anx).



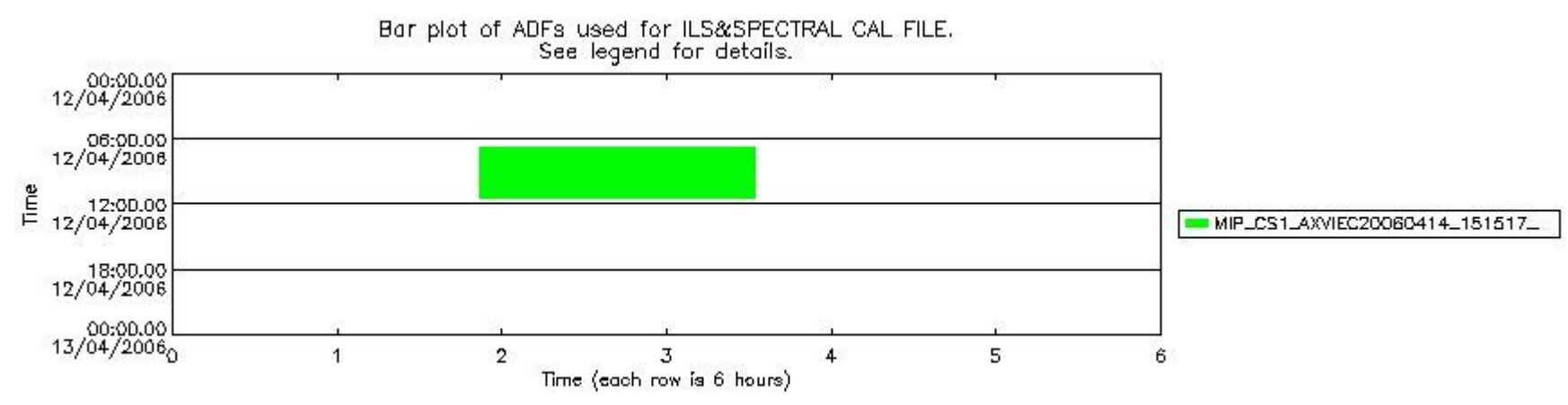
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_51.PNG

## 1.4 ADF monitoring

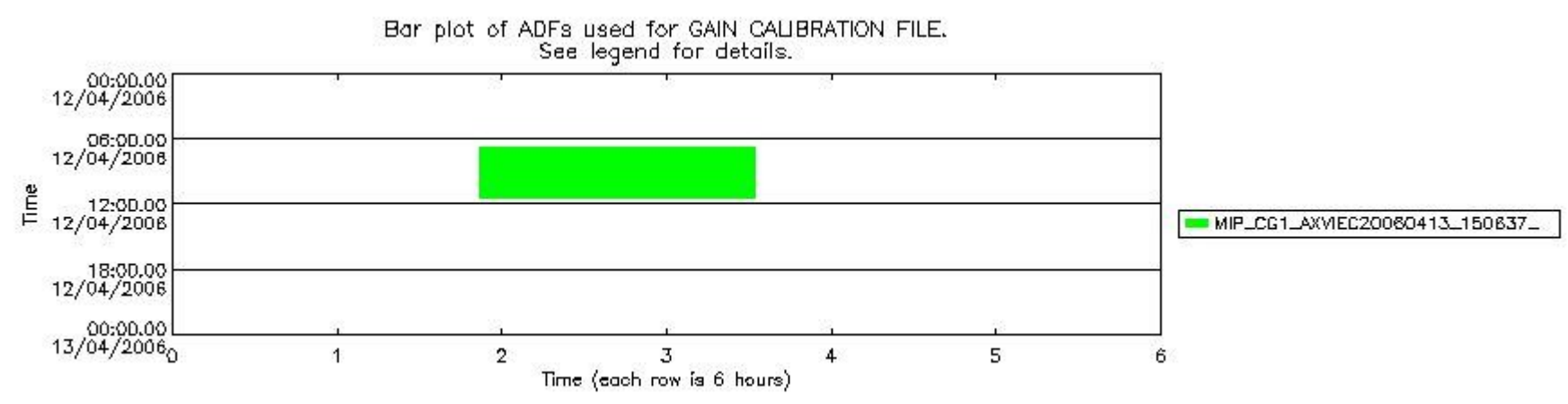
Number	ADF
0	AUX_FRO_AXVPDS20060415_001747_20060411_221000_20060414_005000
1	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
2	MIP_CG1_AXVIEC20060413_150637_20060410_000000_20110410_000000
3	MIP_CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
4	MIP_CO1_AXVIEC20060413_150134_20060410_000000_20110410_000000
5	MIP_CS1_AXVIEC20060414_151517_20060410_000000_20110410_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_1PPDPA20060412_075150_000060302046_00422_21518_2177.N1	5	2	3	1	4	6	7	0

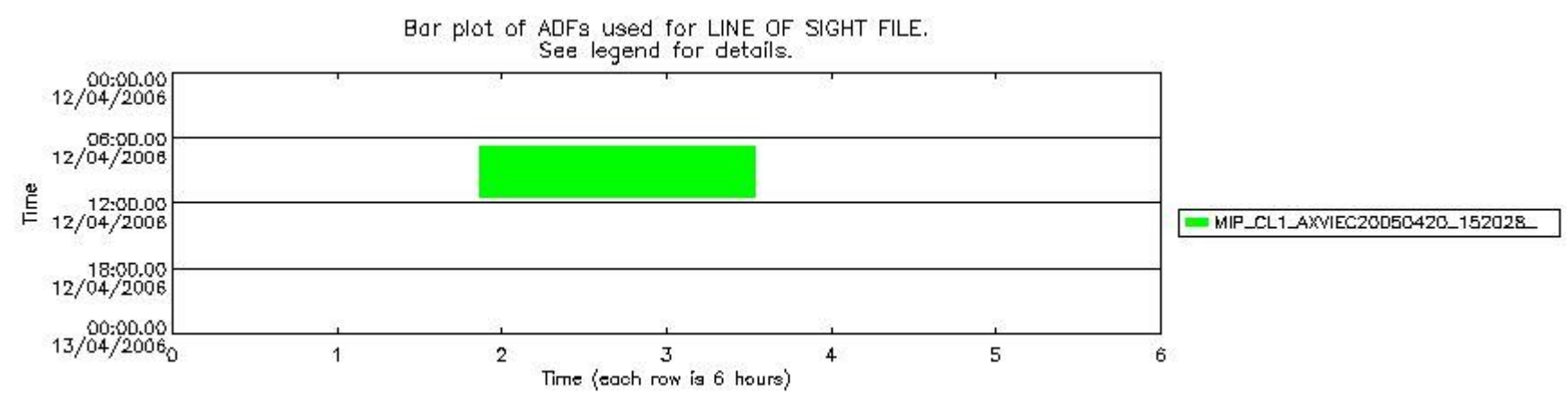




mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_52.PNG

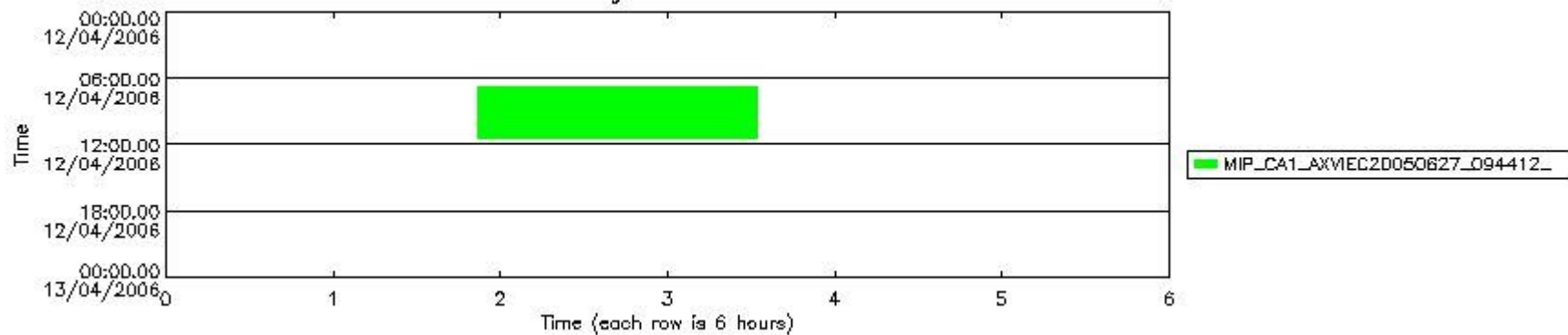


mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_53.PNG



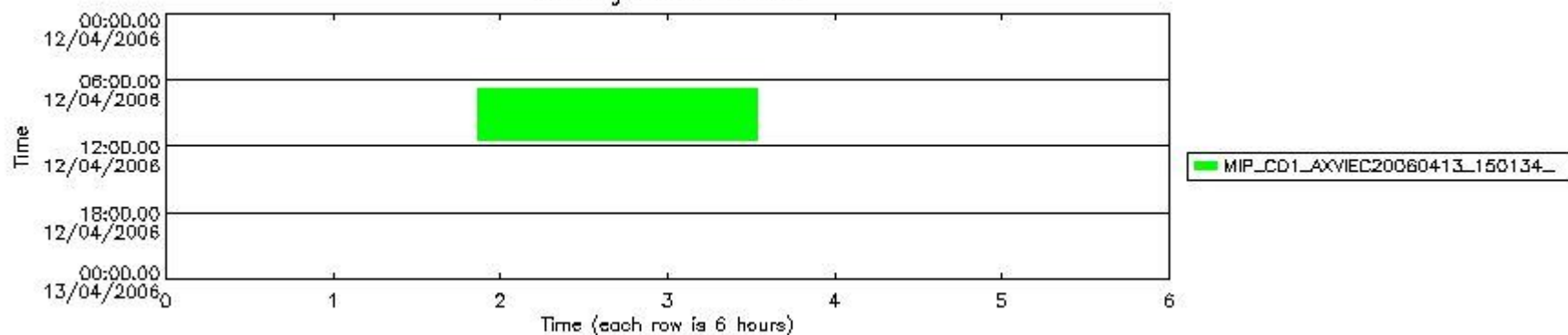
mipas\_daily\_report\_level1\_OFI\_MIPAS\_4\_65\_P\_20060412\_54.PNG

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



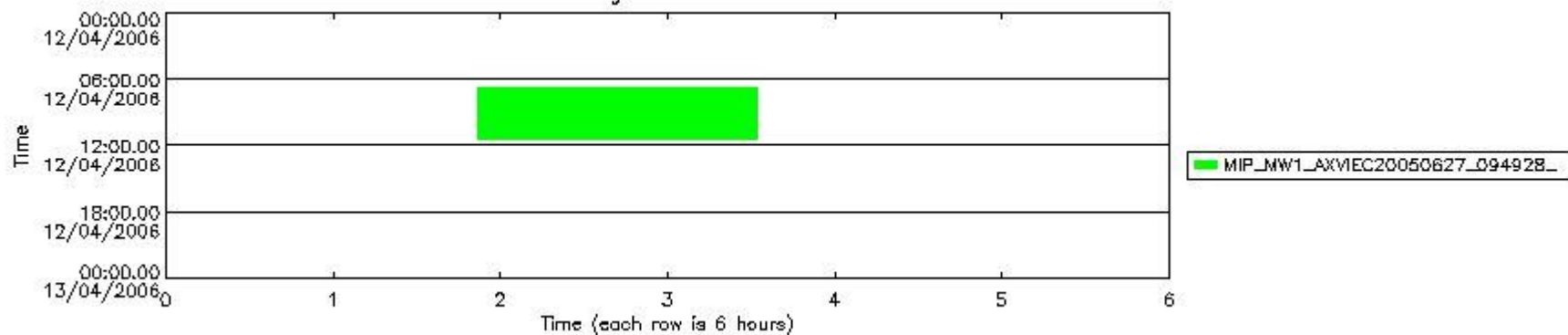
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_55.PNG

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



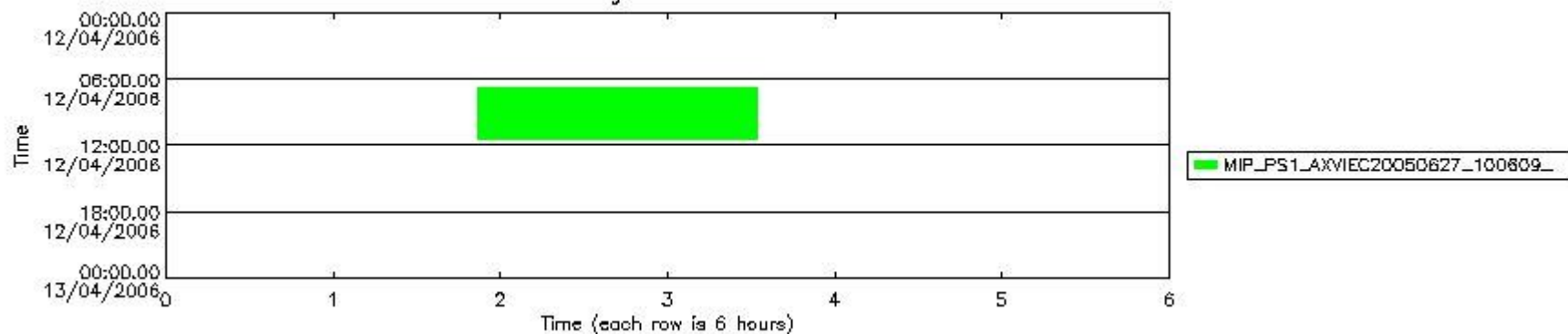
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_56.PNG

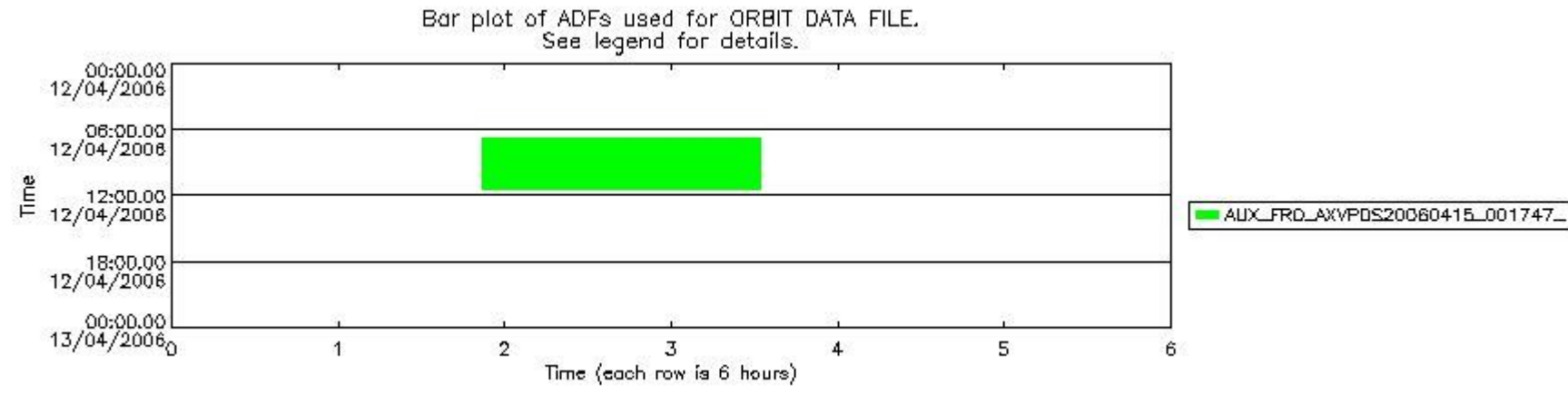
Bar plot of ADFs used for MICROWINDOWS FILE.  
See legend for details.



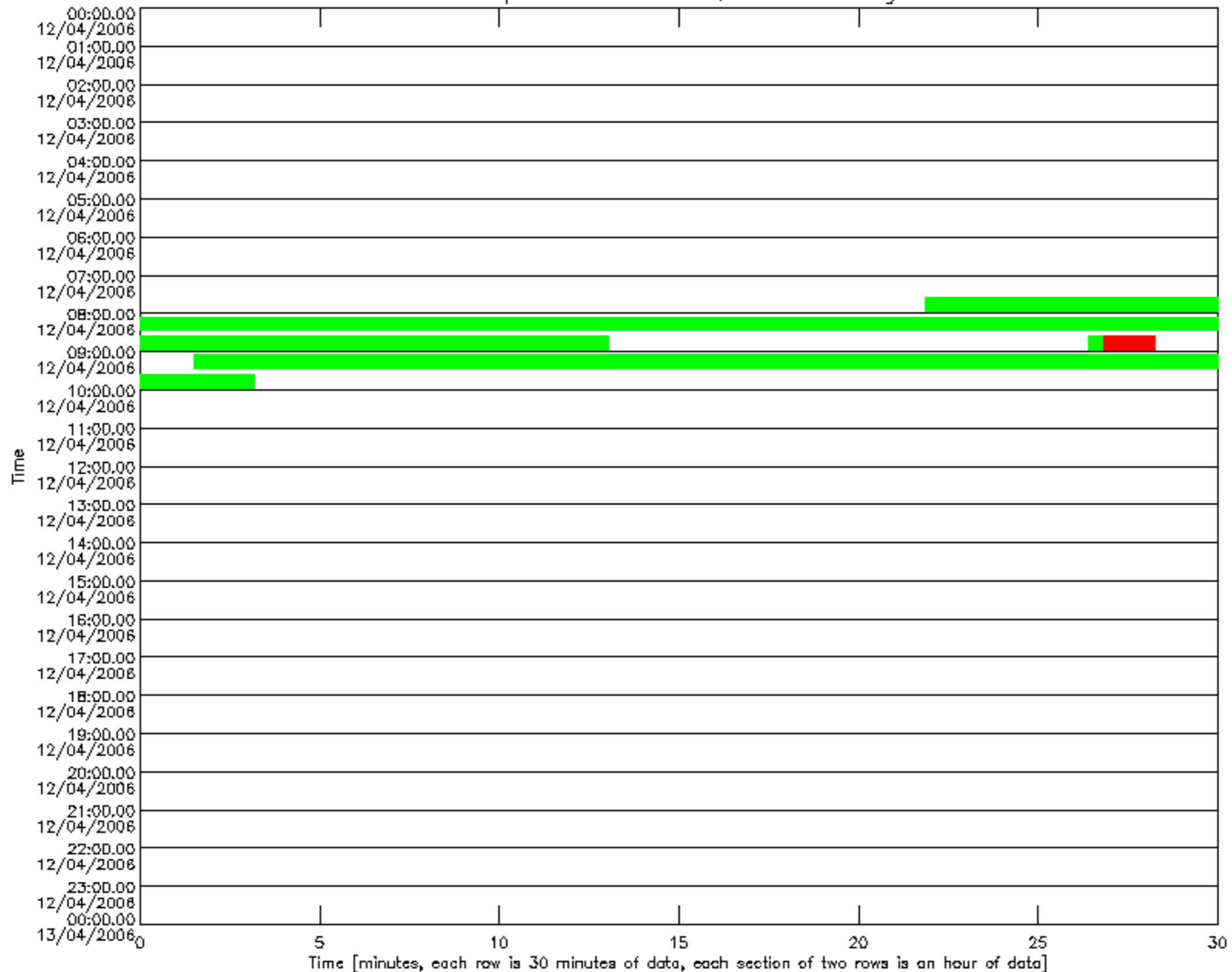
mipas\_daily\_report\_level1\_OFL\_MIPAS\_4\_65\_P\_20060412\_57.PNG

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



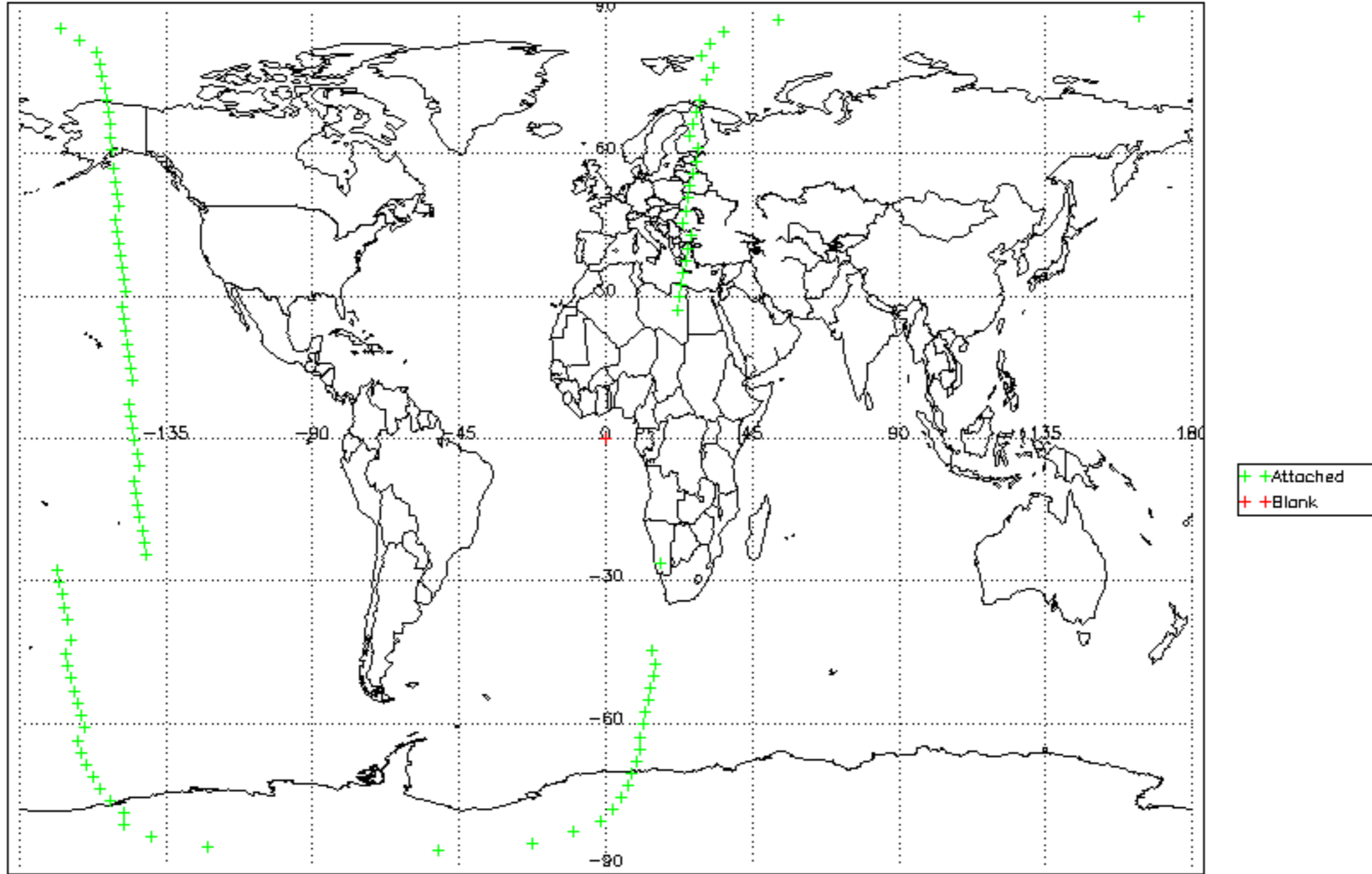


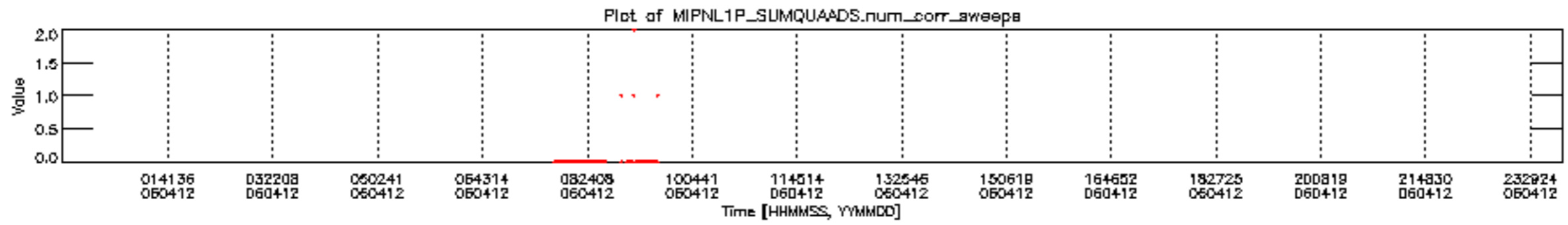
Bar plot of MIPNL1P\_SUMQUAADS.attach\_flag



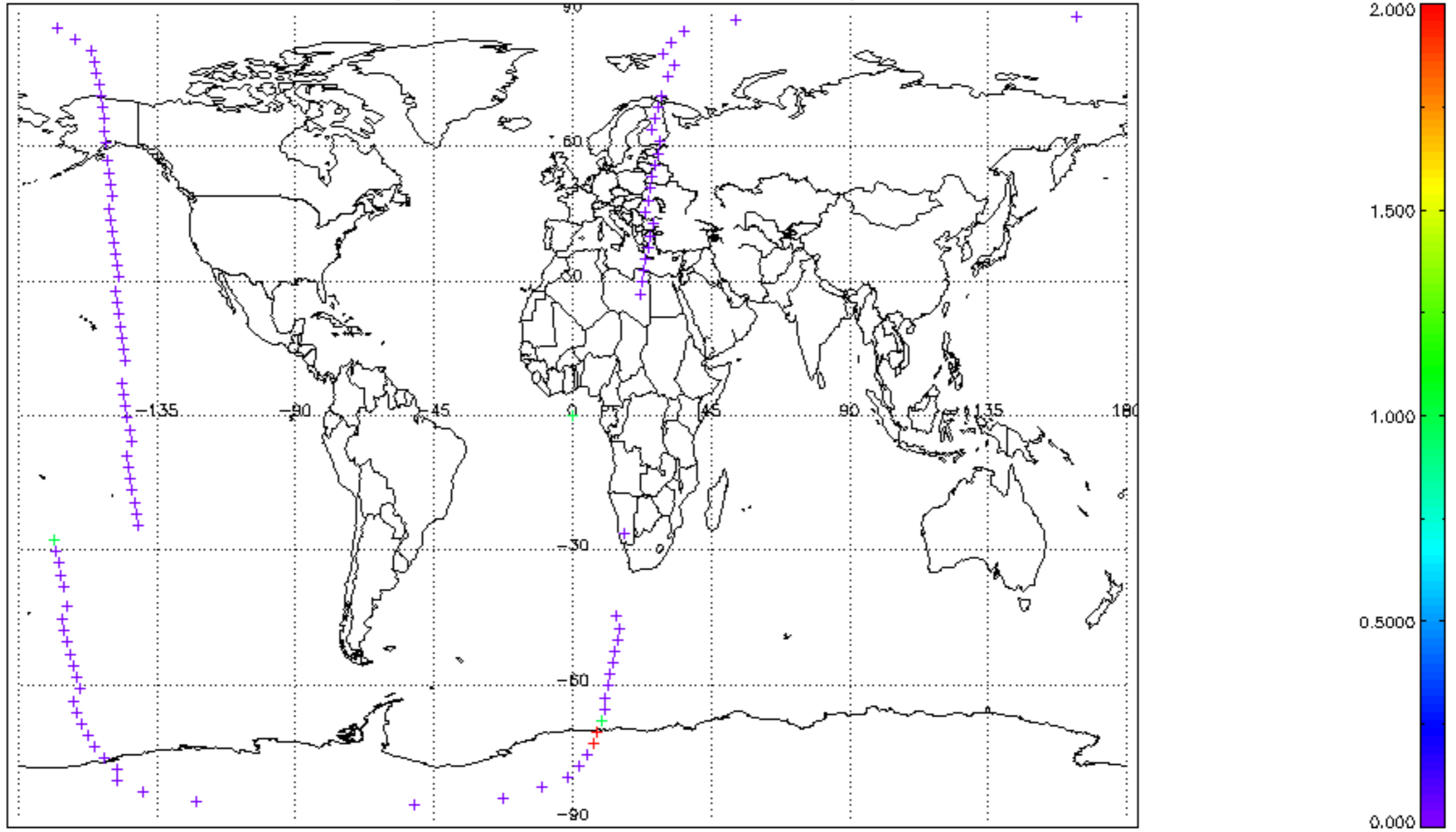


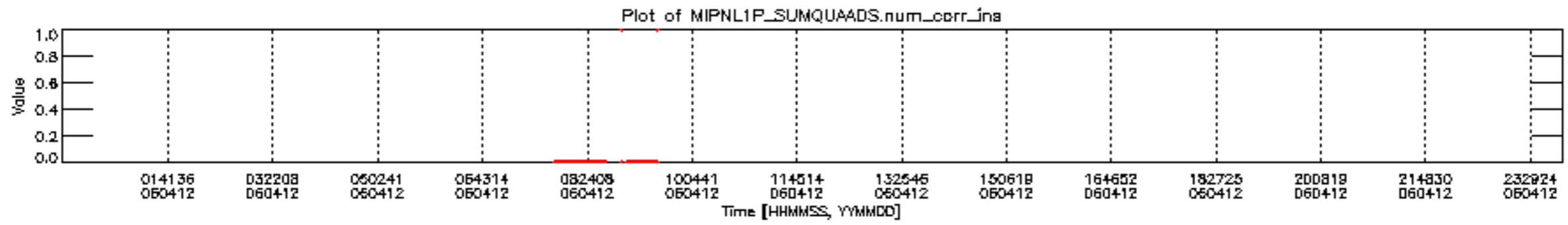
Geolocation plot of MIPNL1P\_SUMQUAADS.attach\_flag





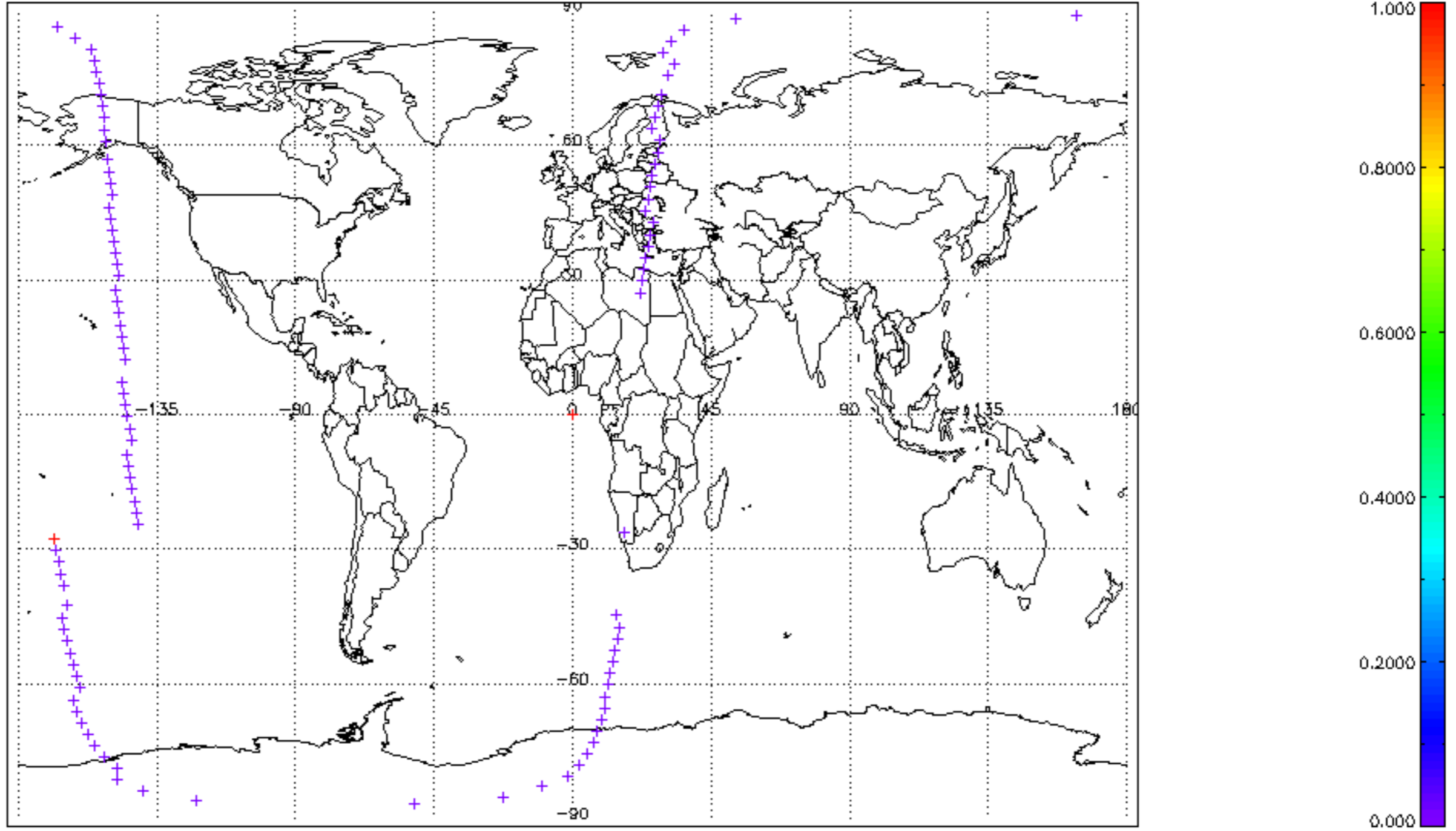
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_corr\_sweeps

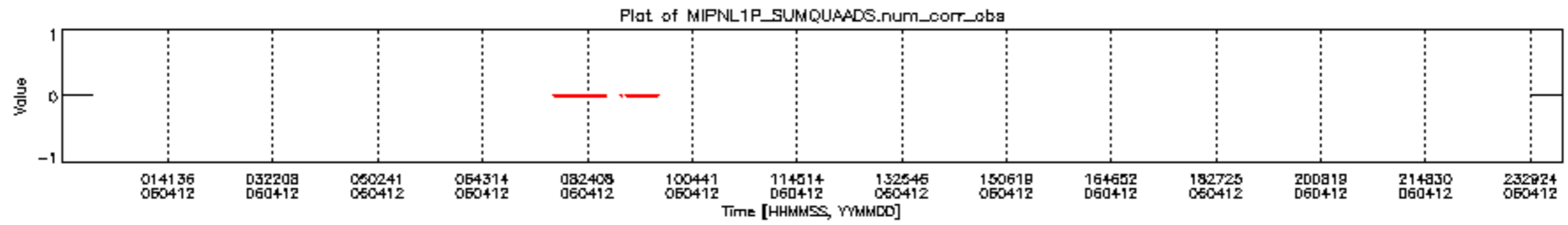




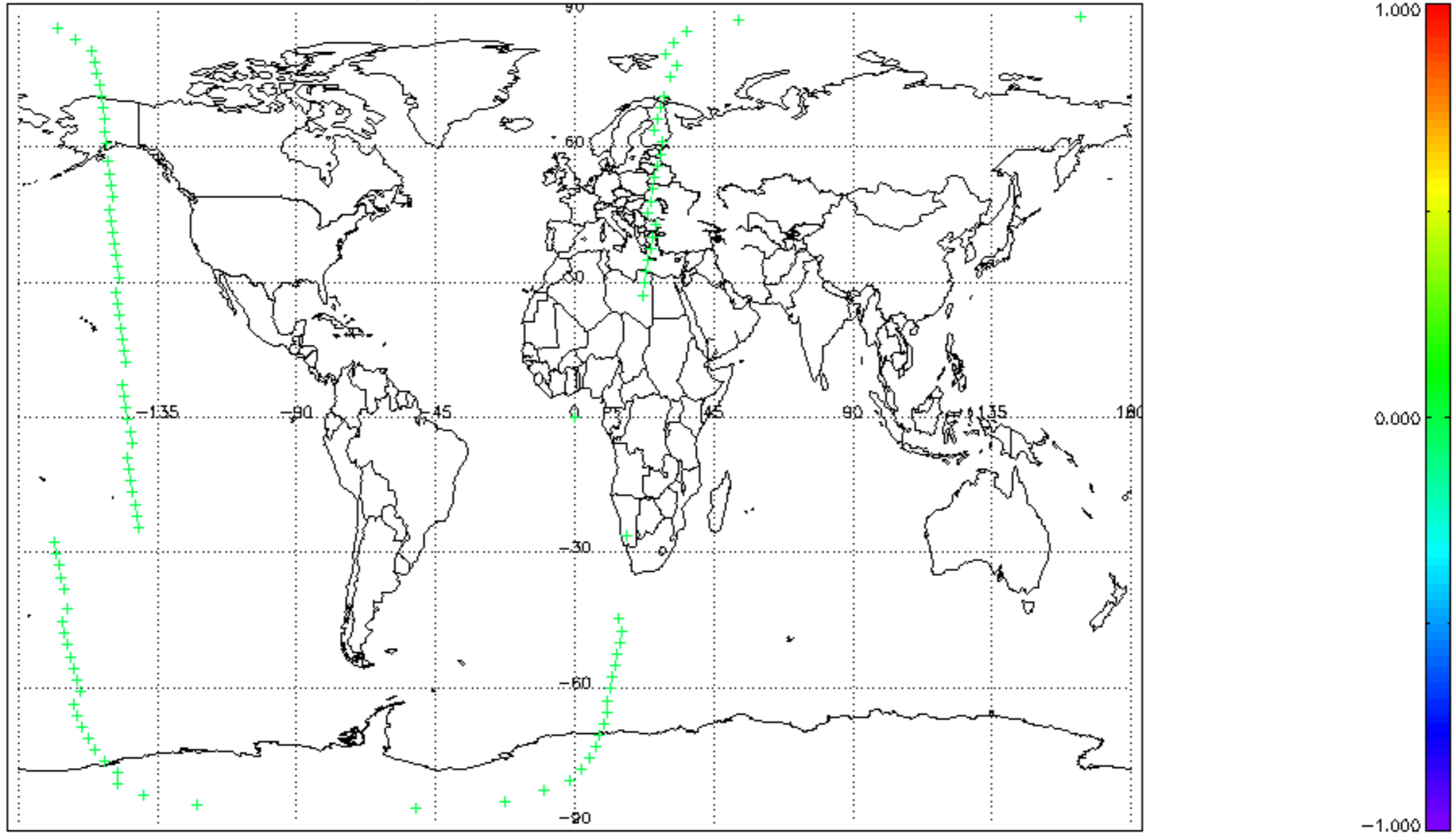


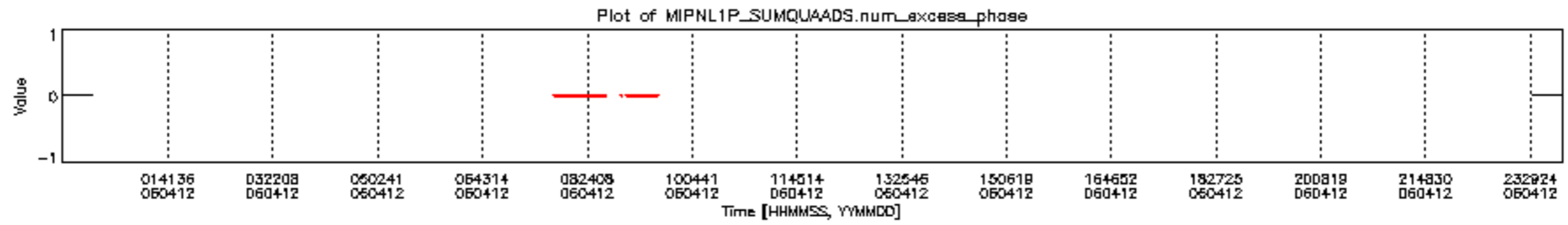
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_corr\_ins





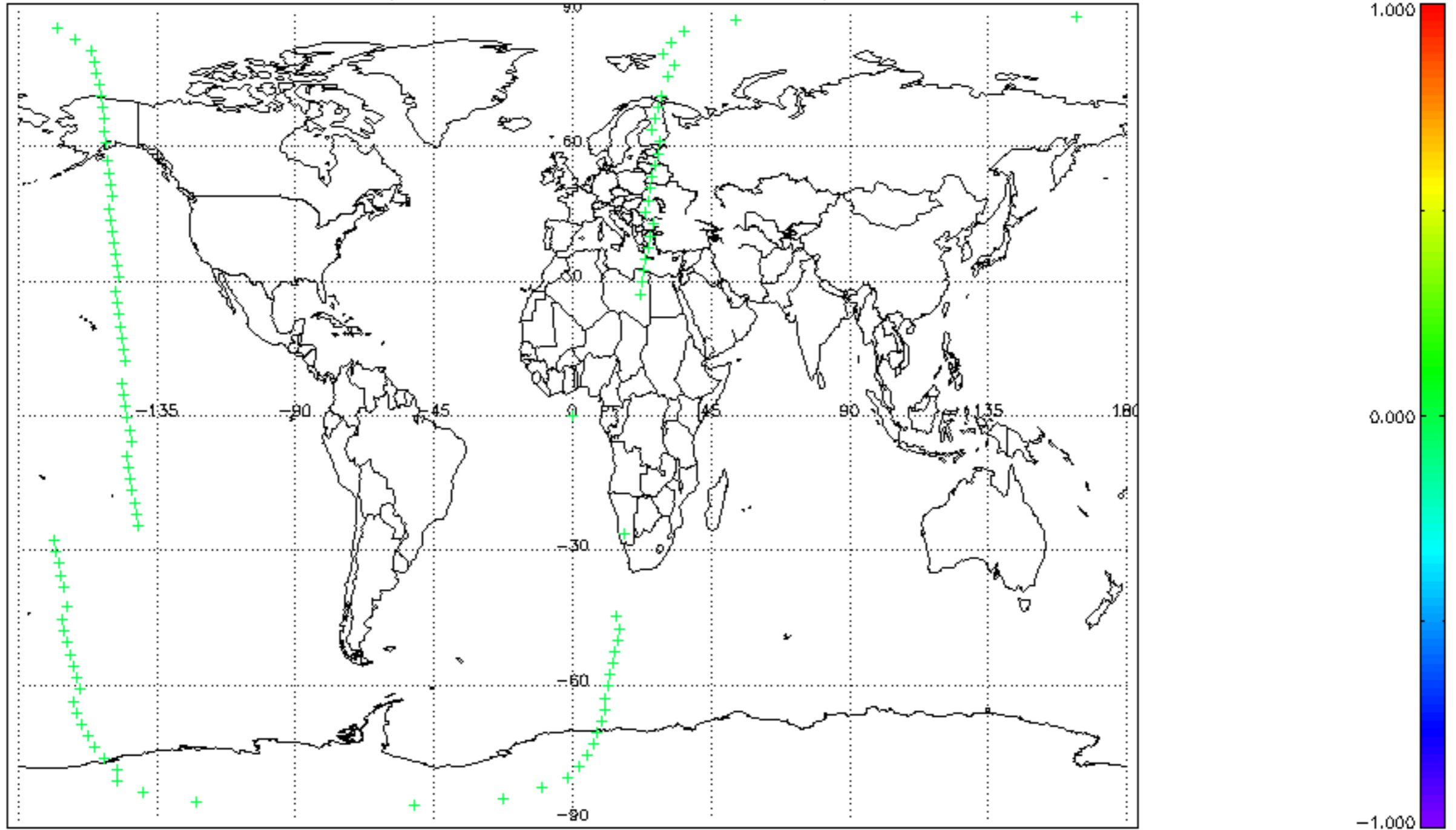
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_corr\_obs

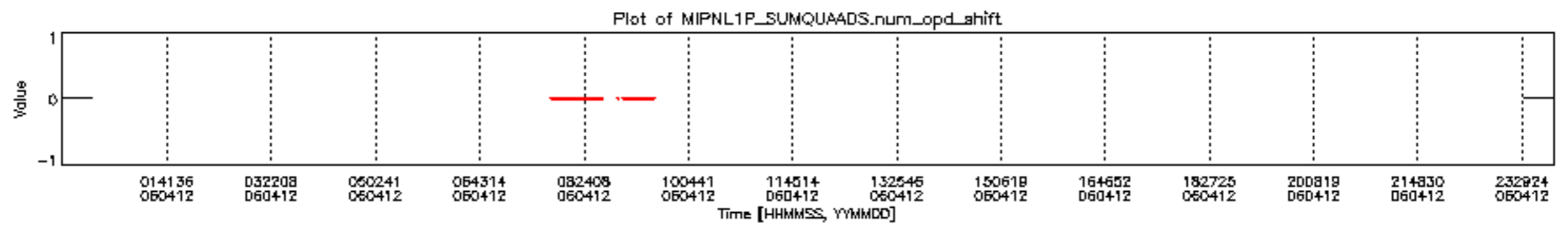




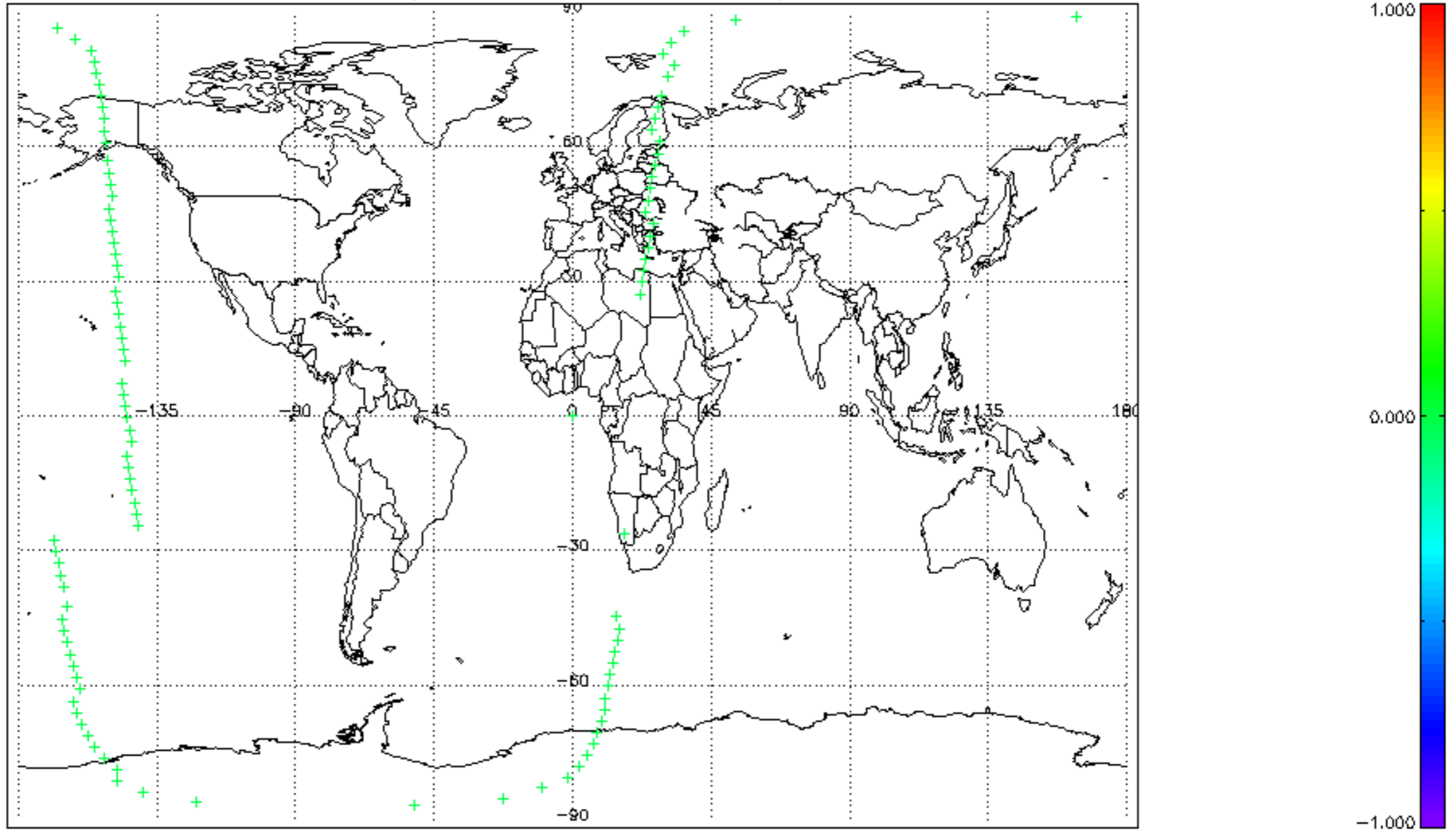


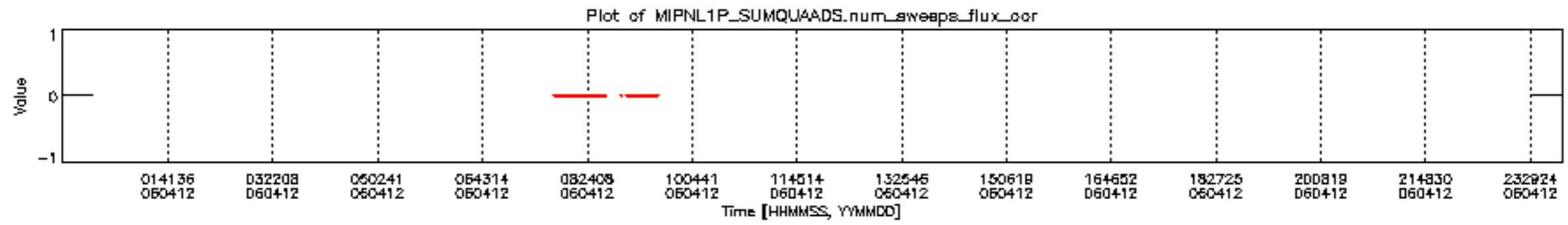
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_excess\_phase





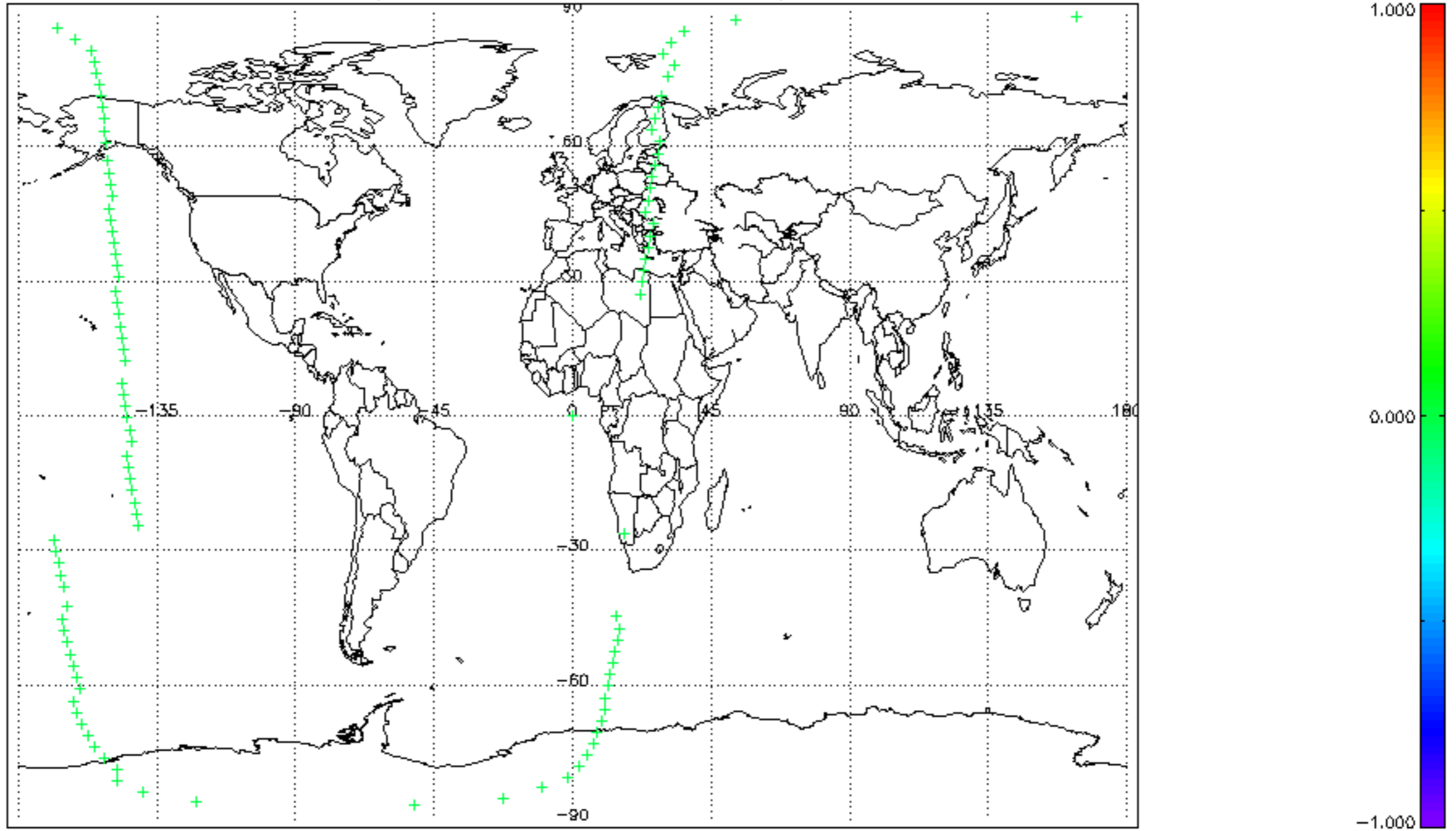
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_opd\_shift



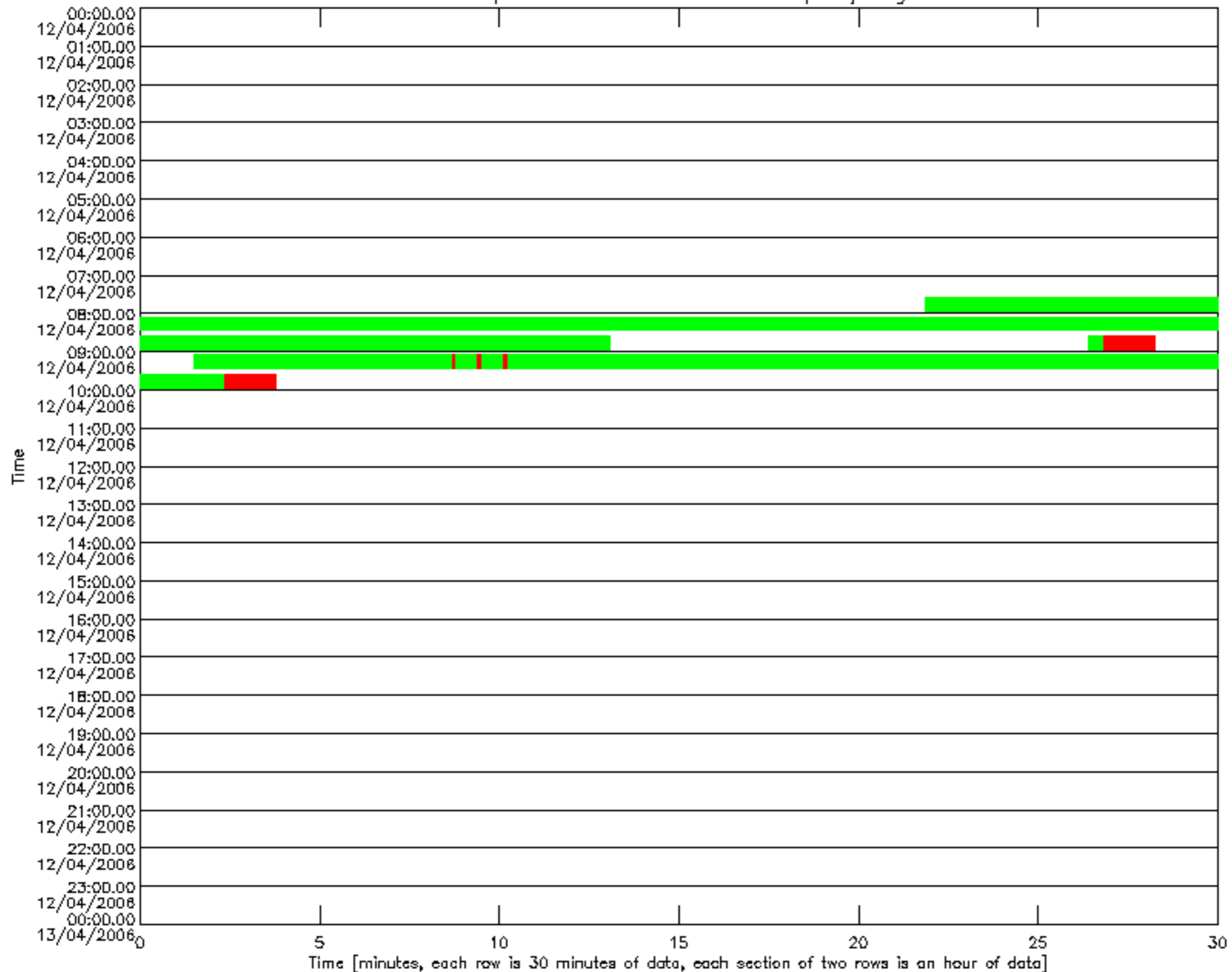




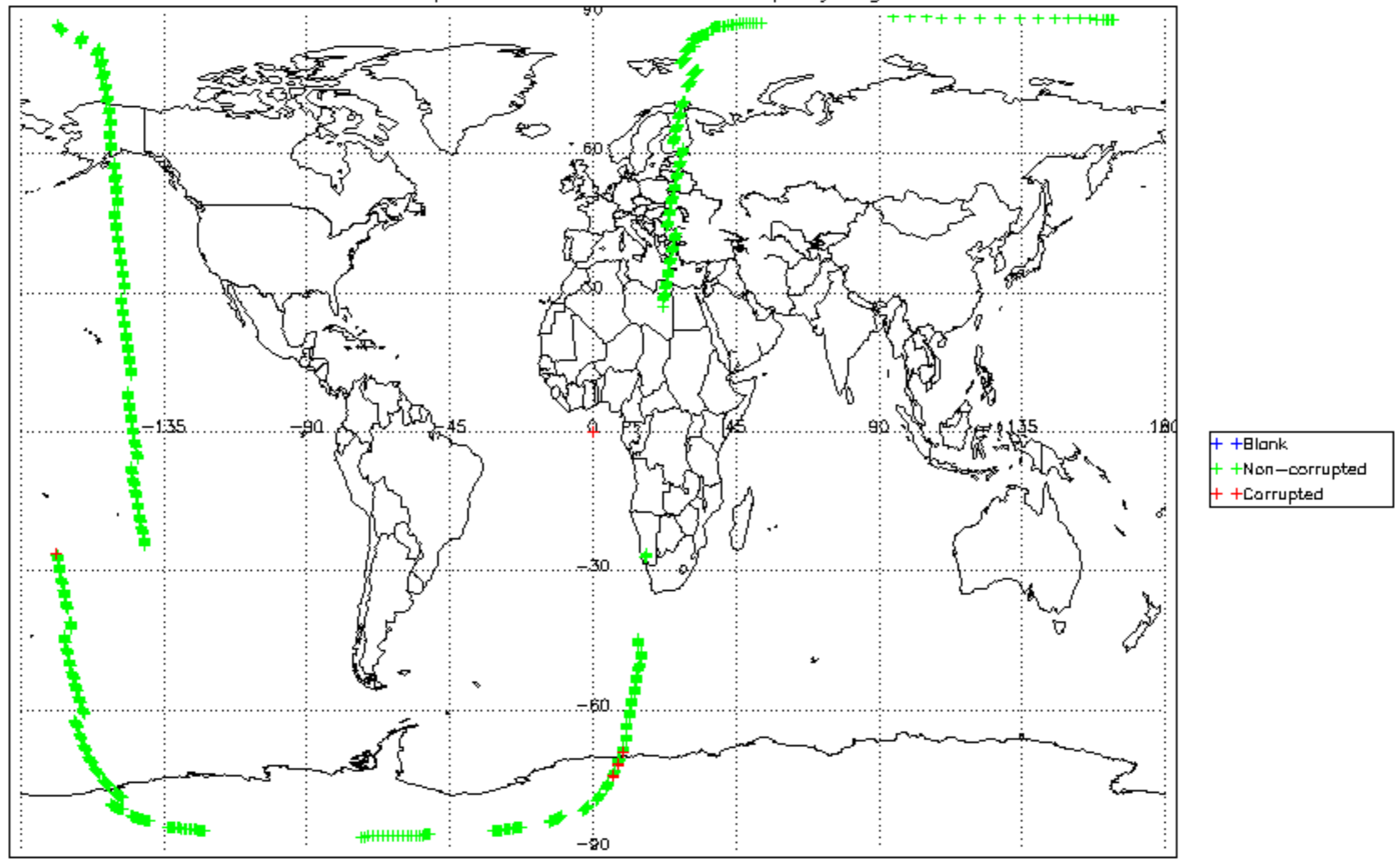
Geolocation plot of MIPNL1P\_SUMQUAADS.num\_sweeps\_flux\_oor

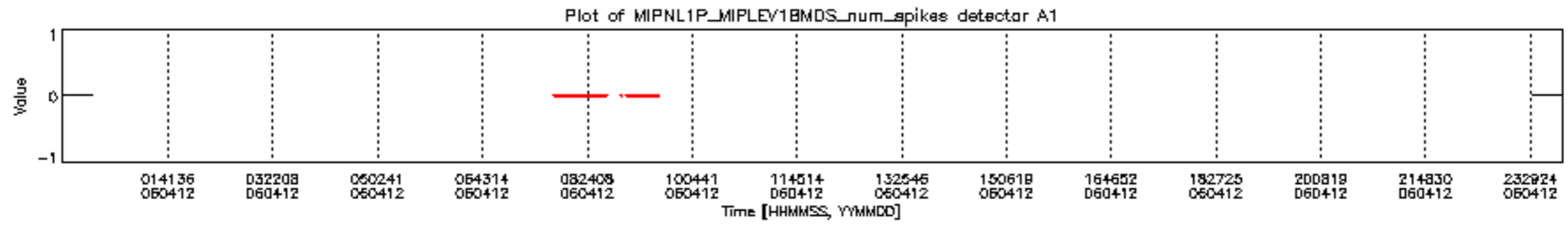


Bar plot of MIPNL1P\_MIPLEV1BMDS\_quality\_flag



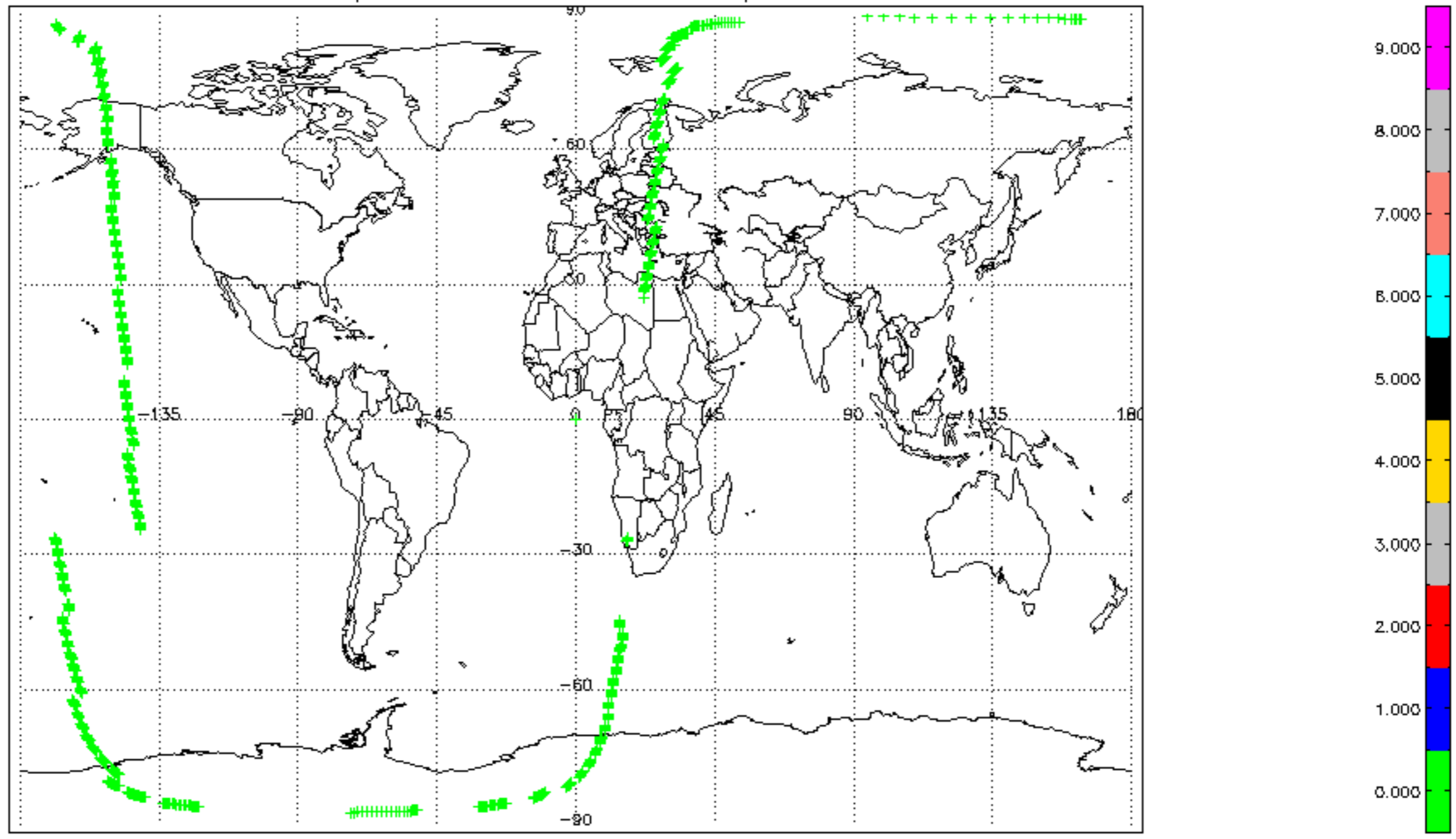
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_quality\_flag

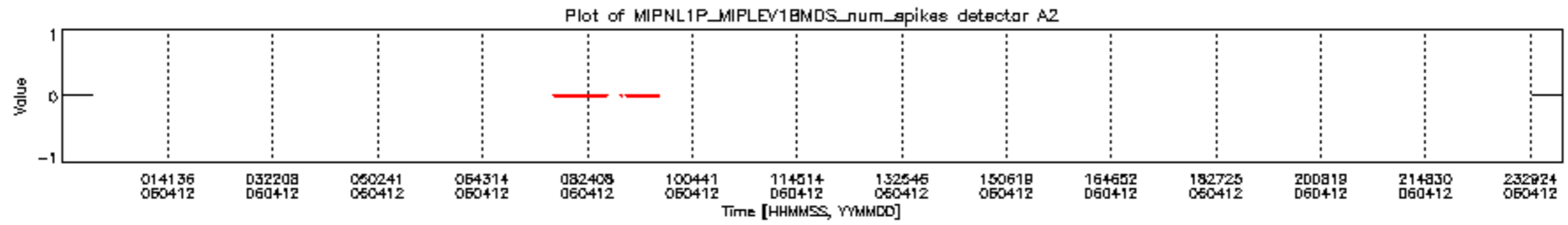




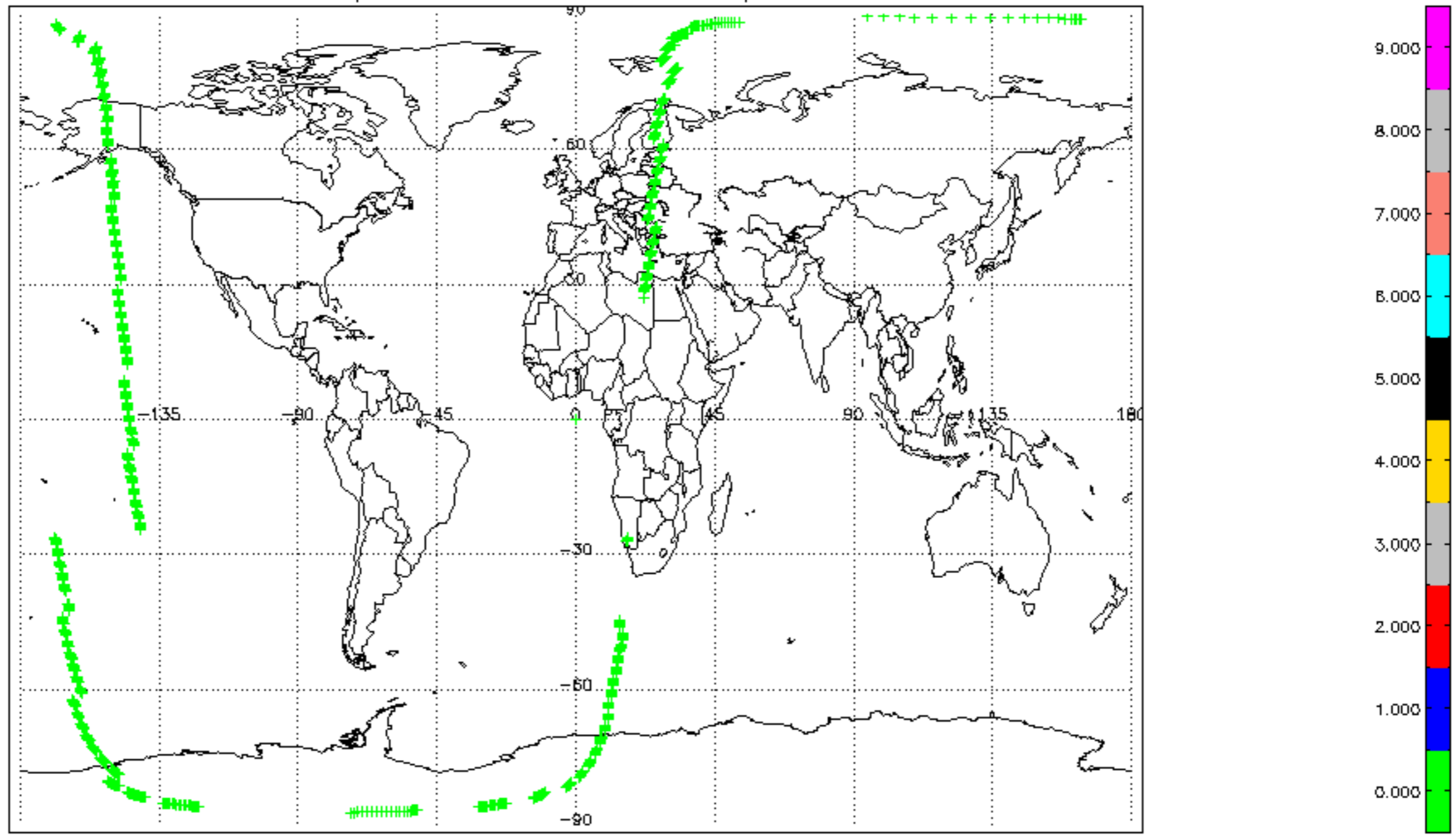


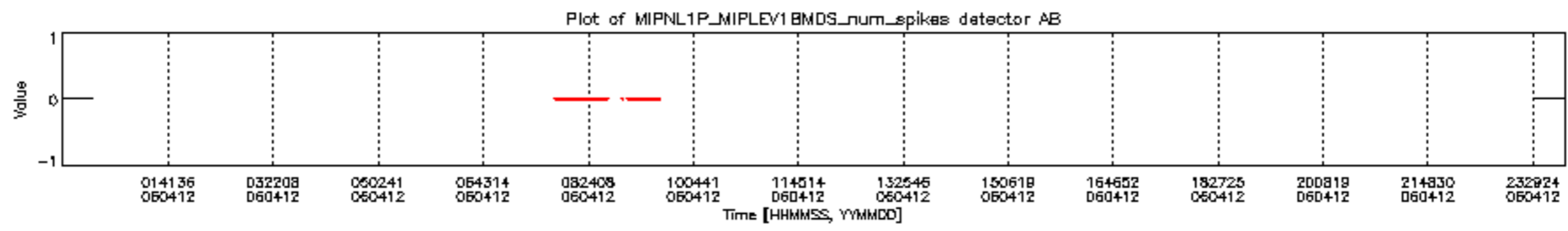
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector A1





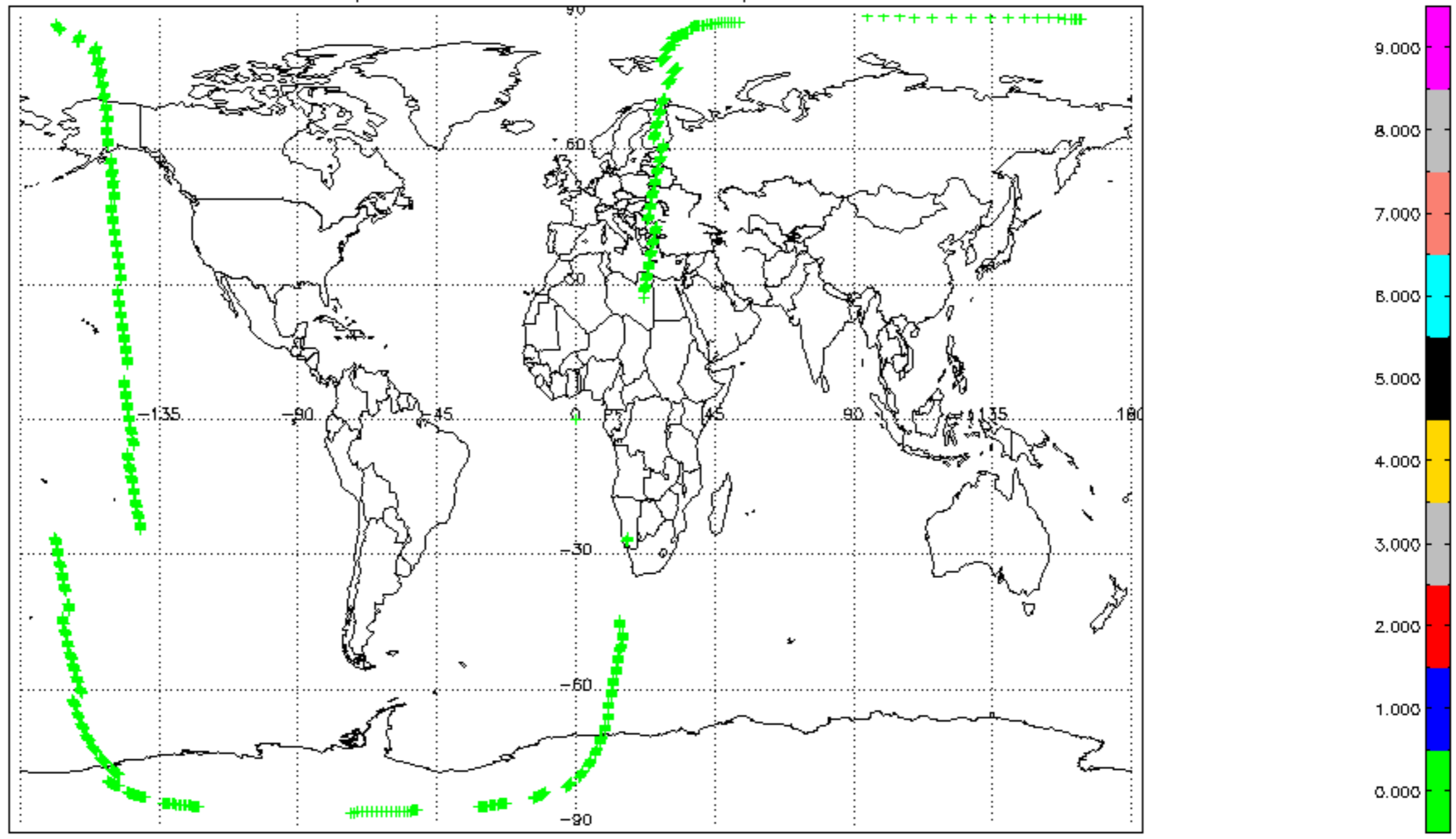
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector A2

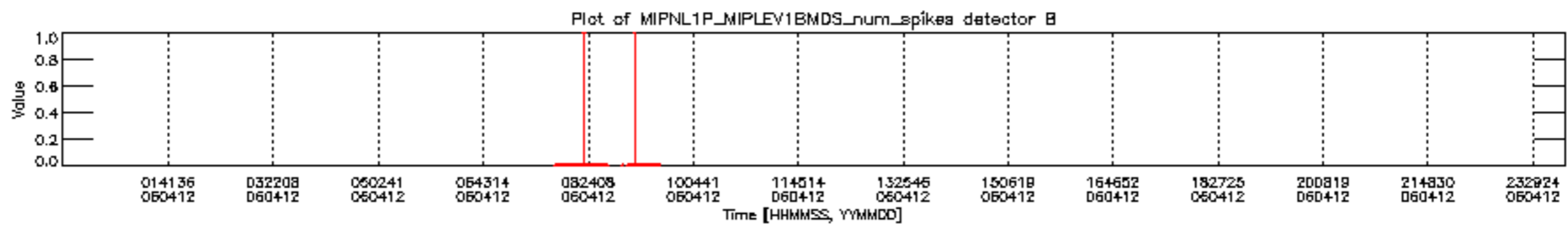




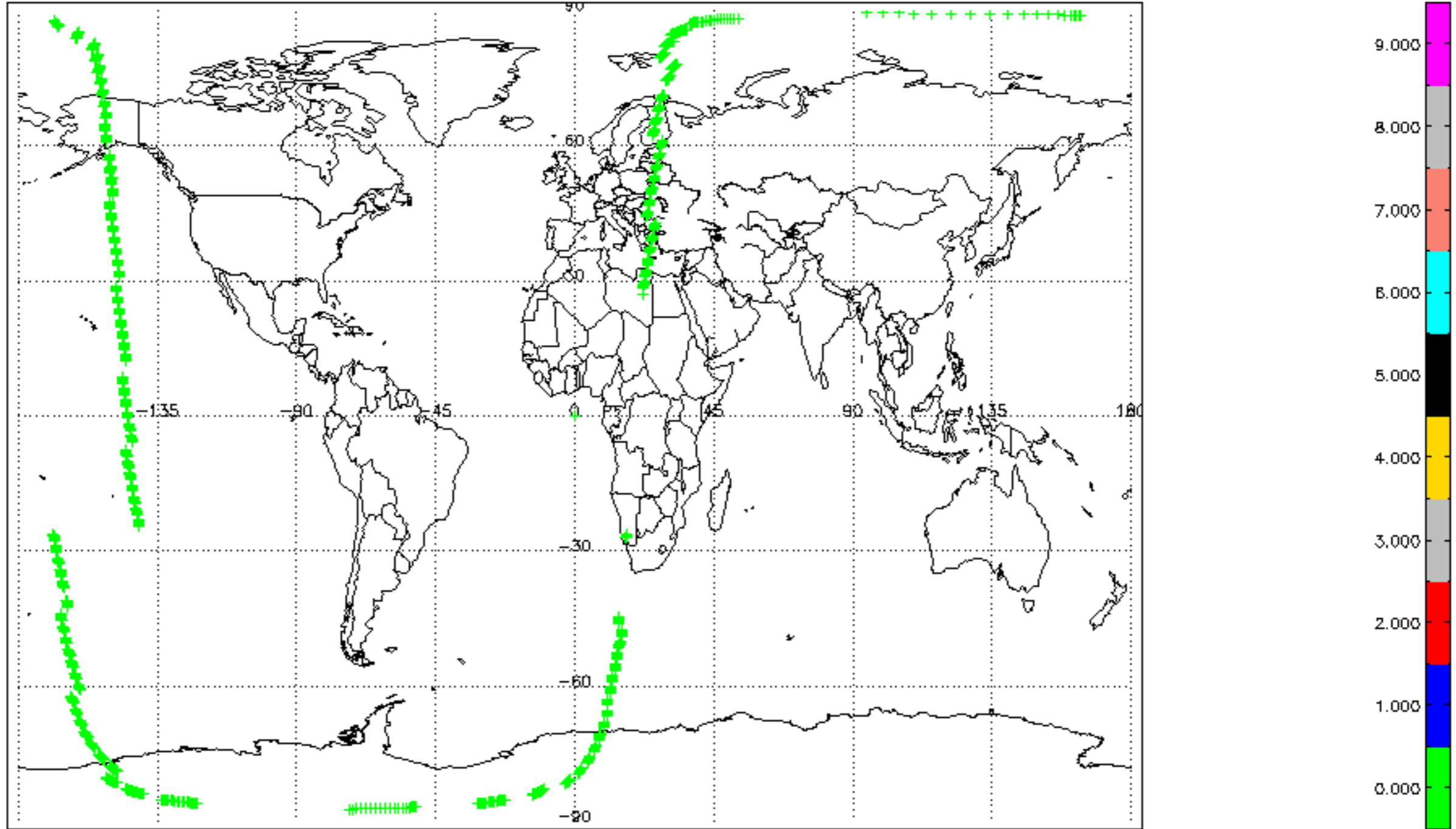


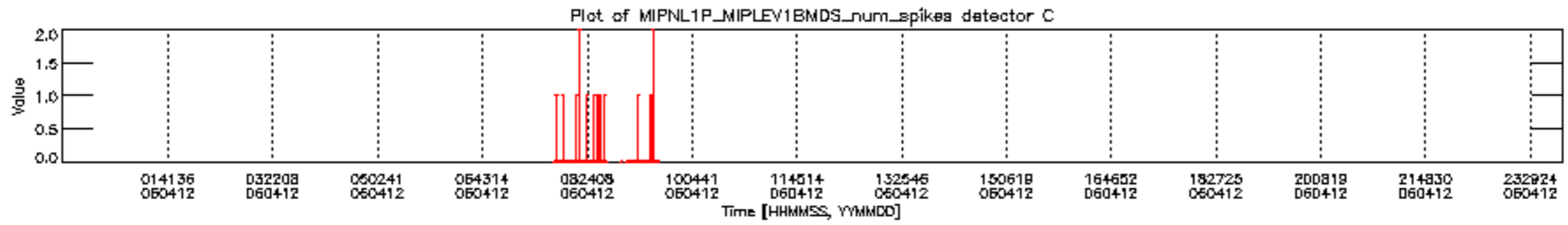
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector AB



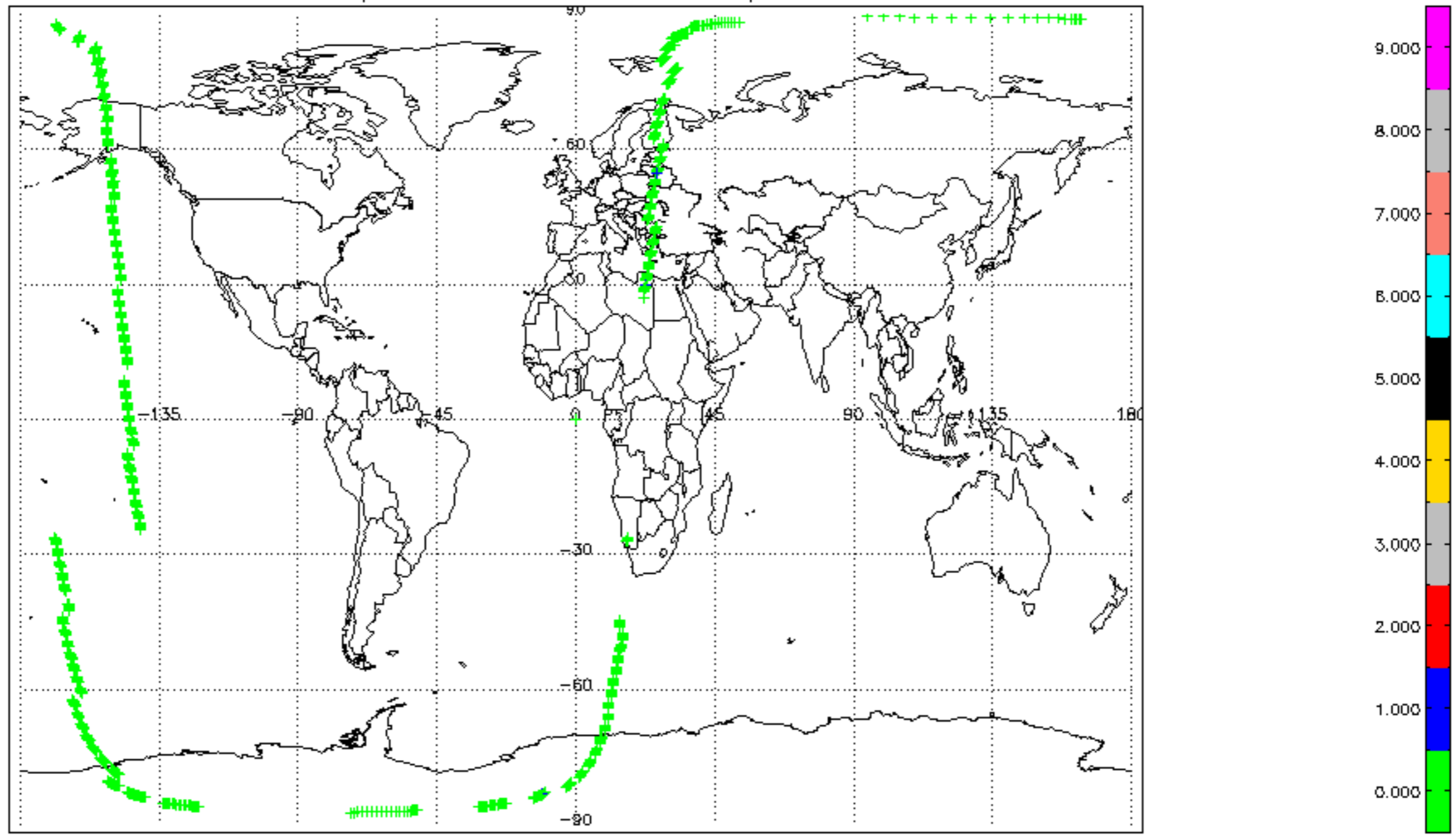


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector B





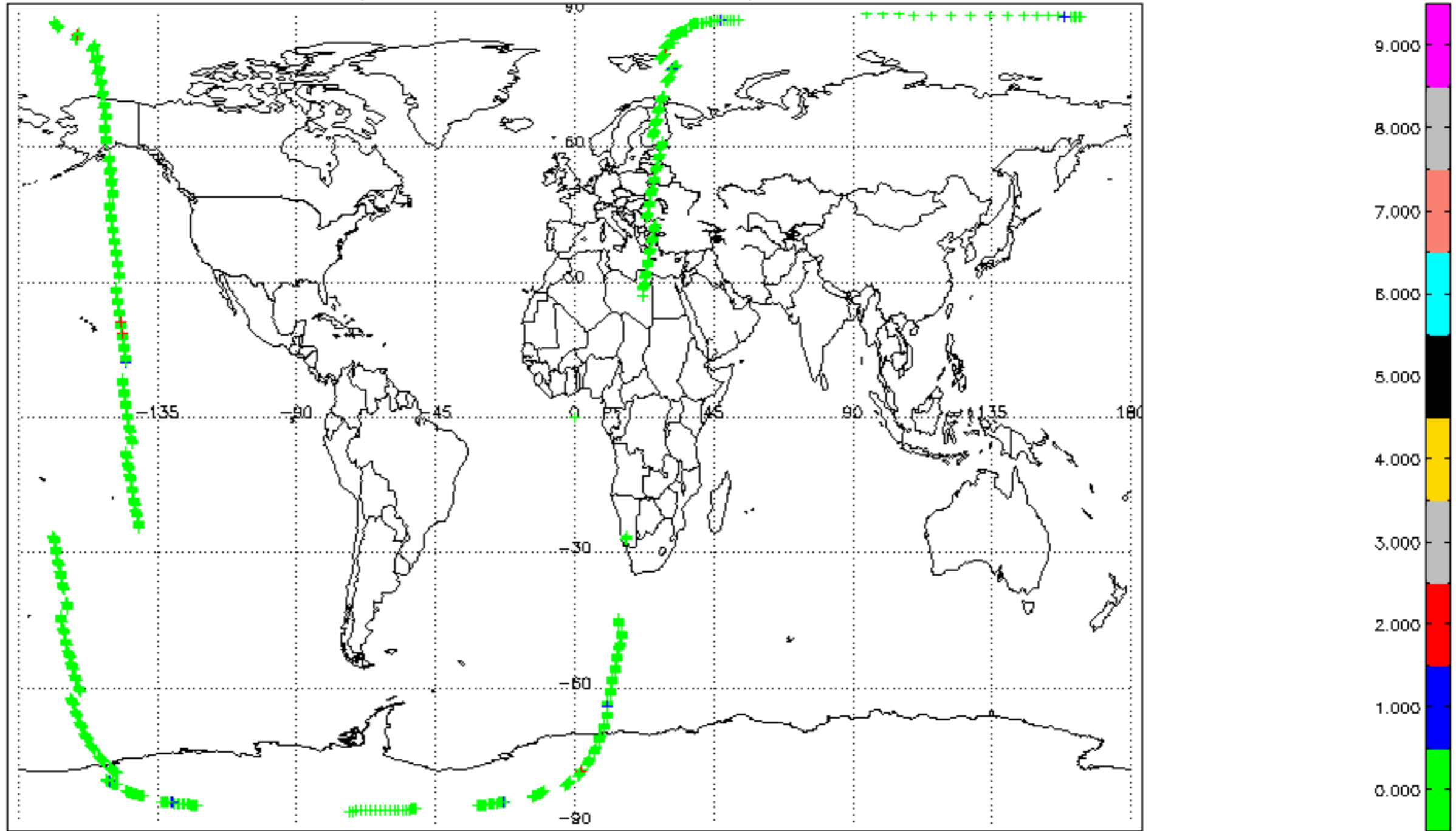
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector C

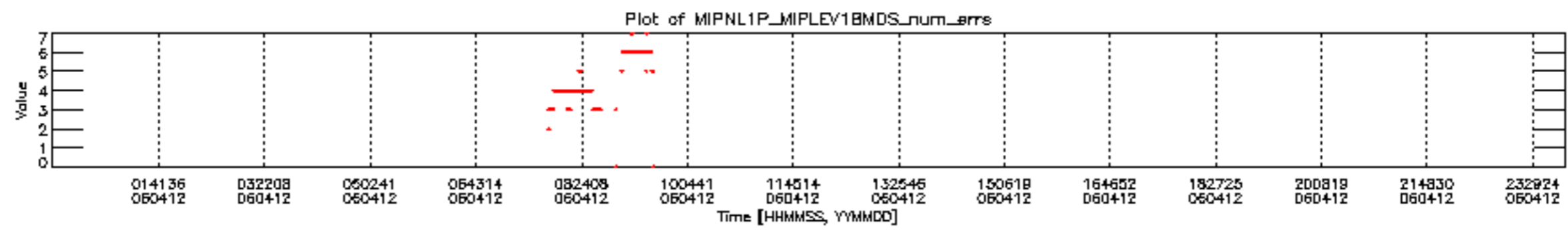






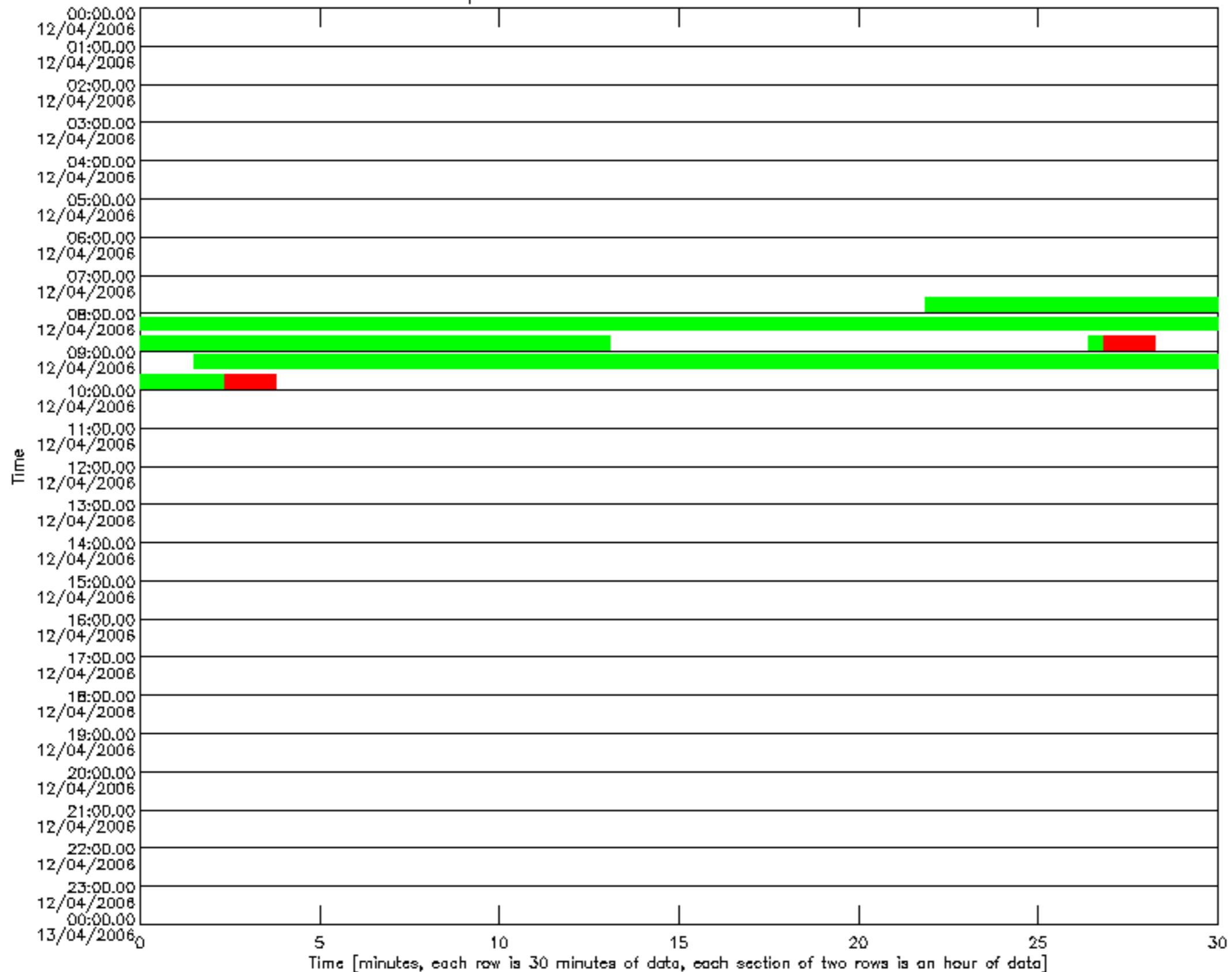
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_num\_spikes detector D





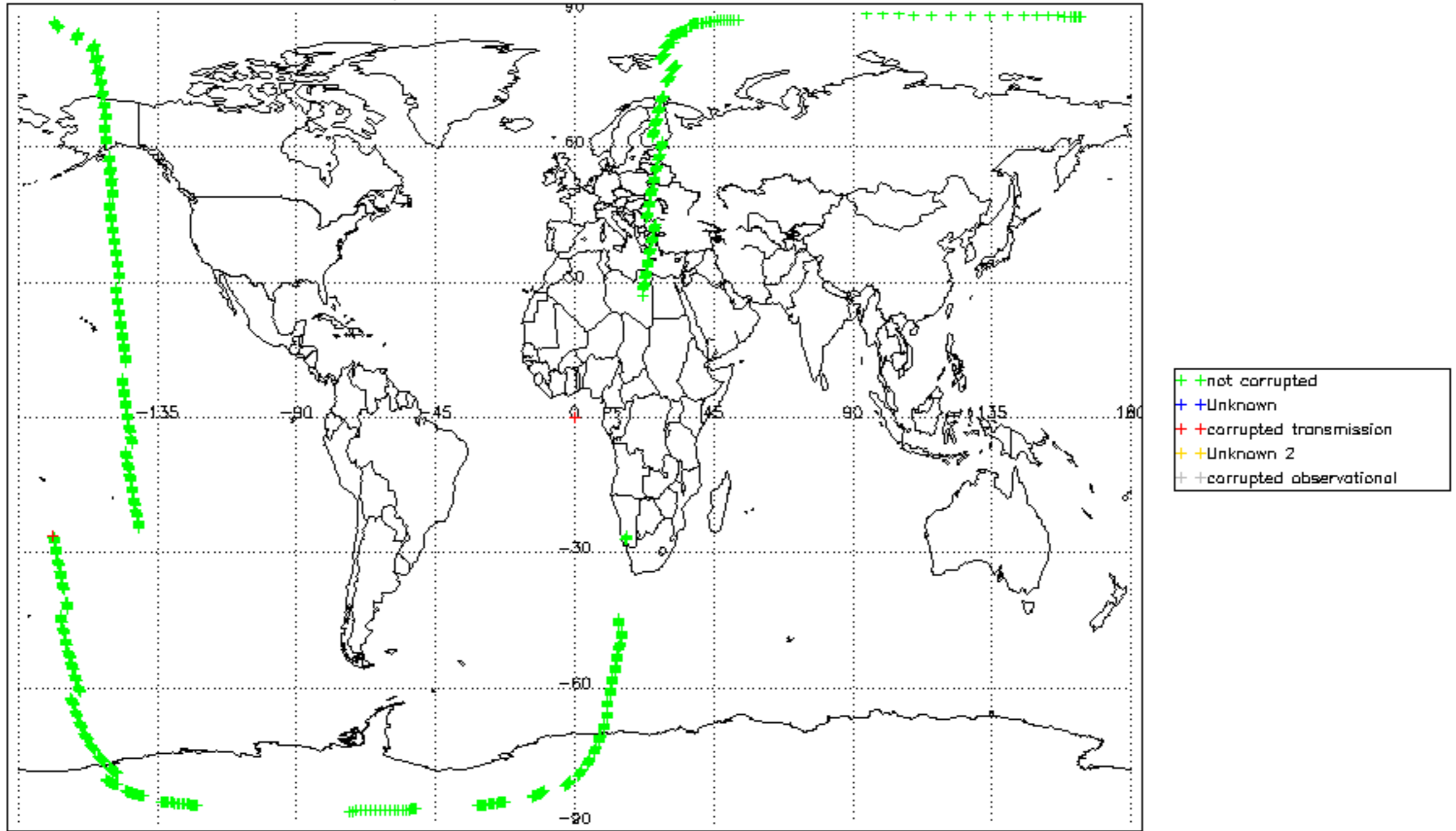


Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band A

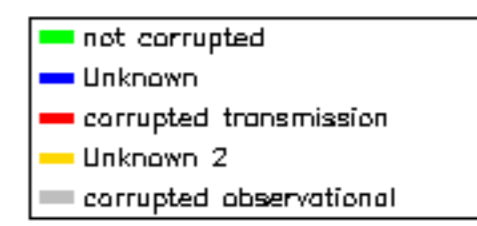
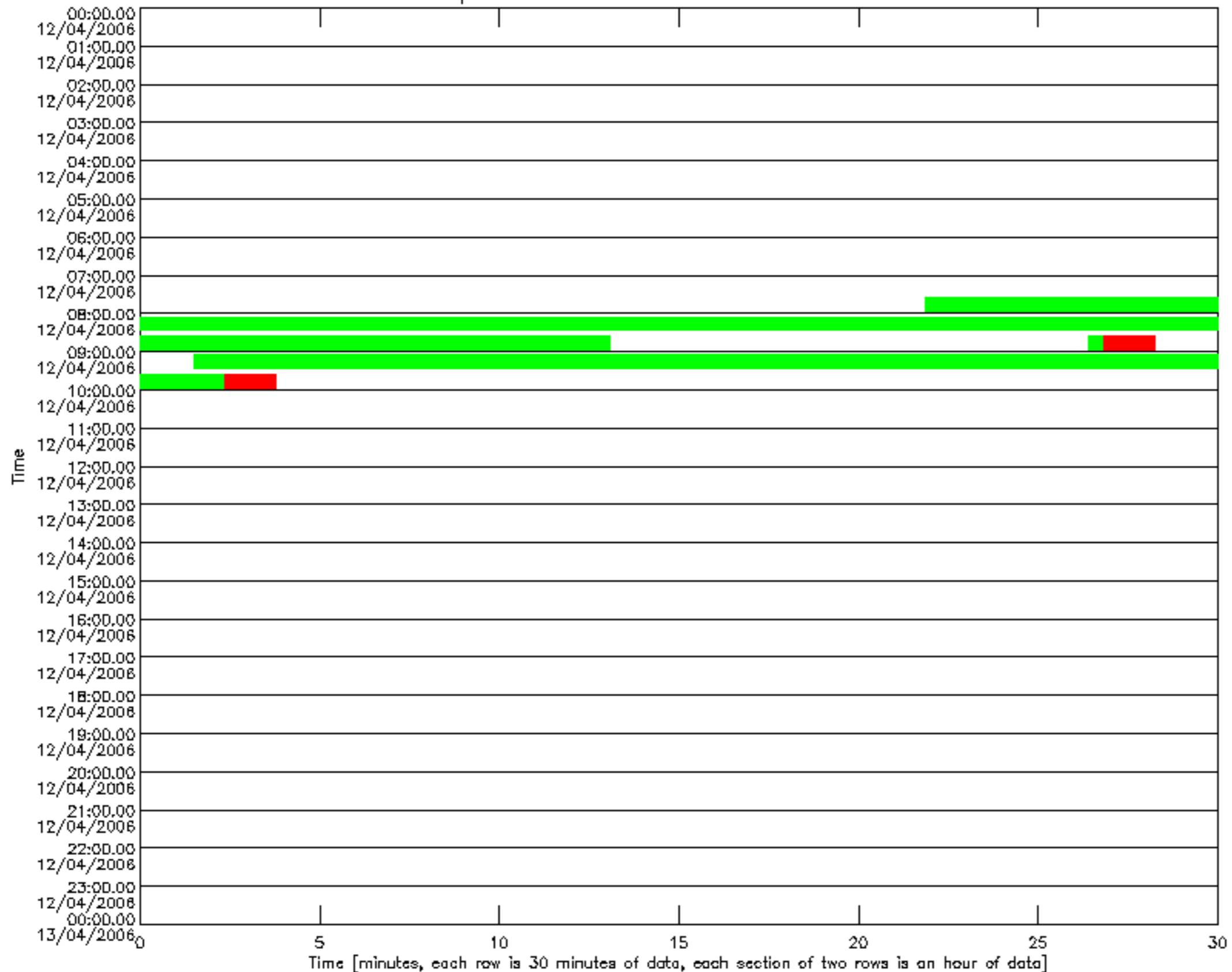




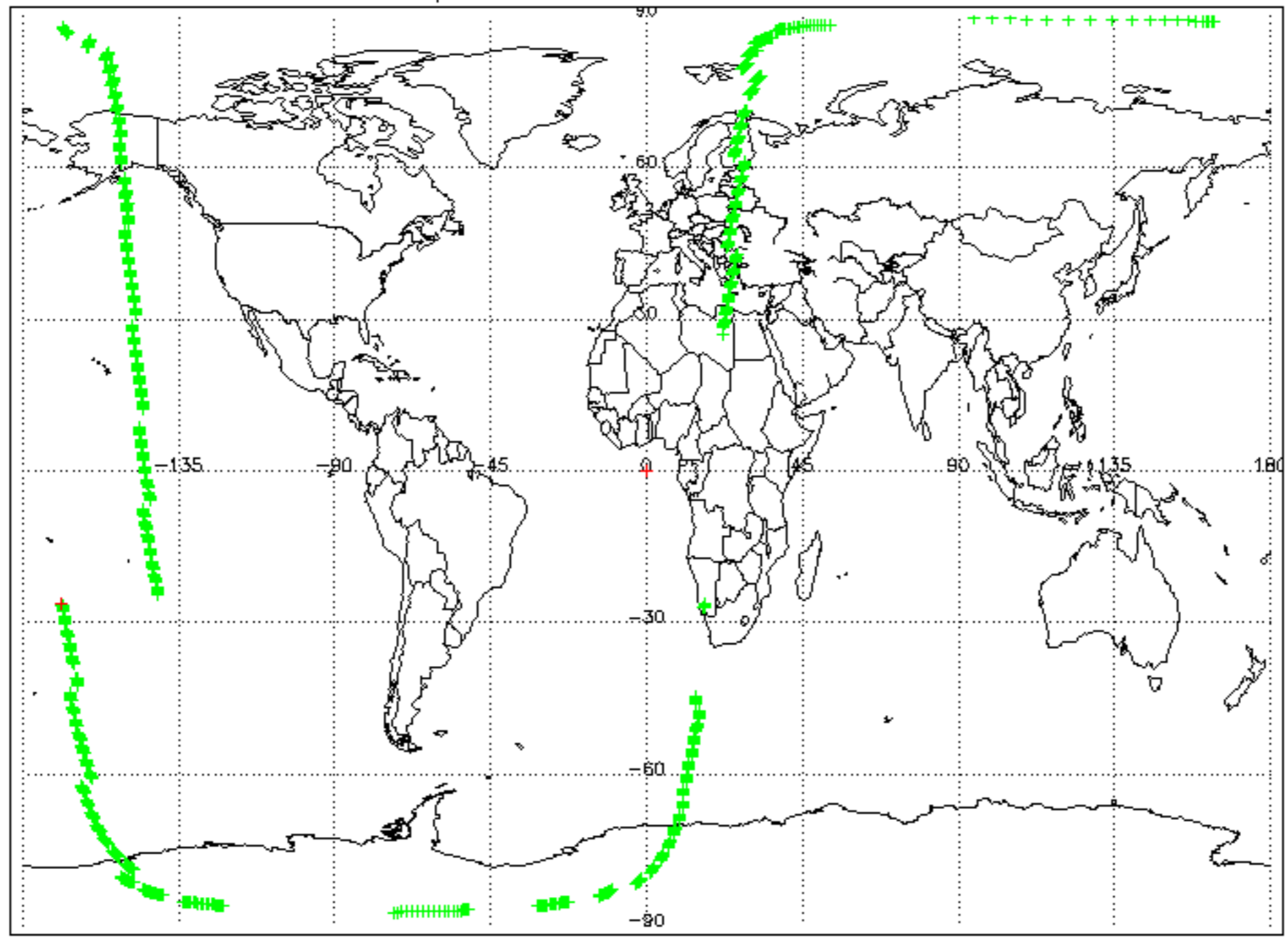
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band A



Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band AB

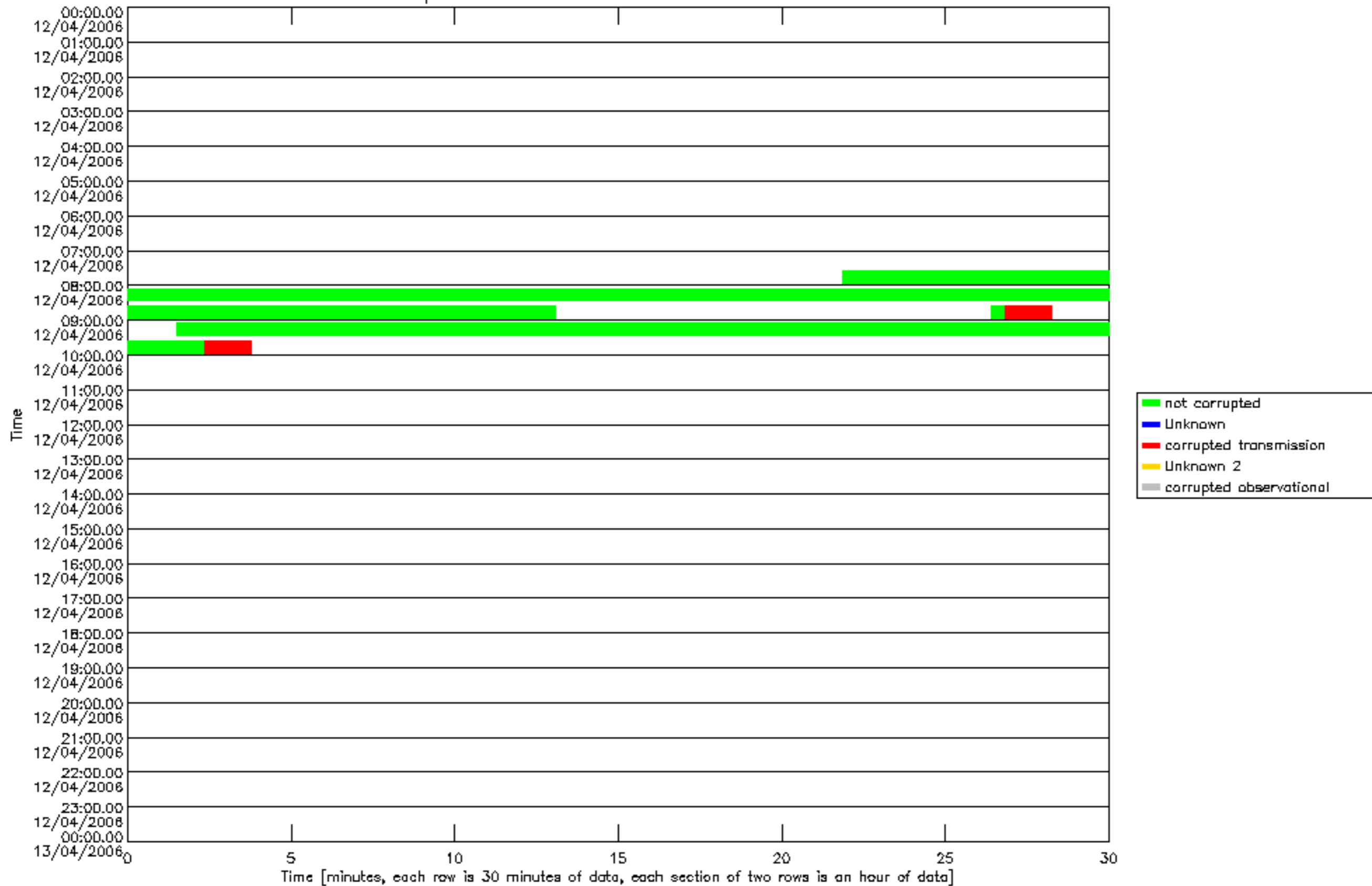


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band AB

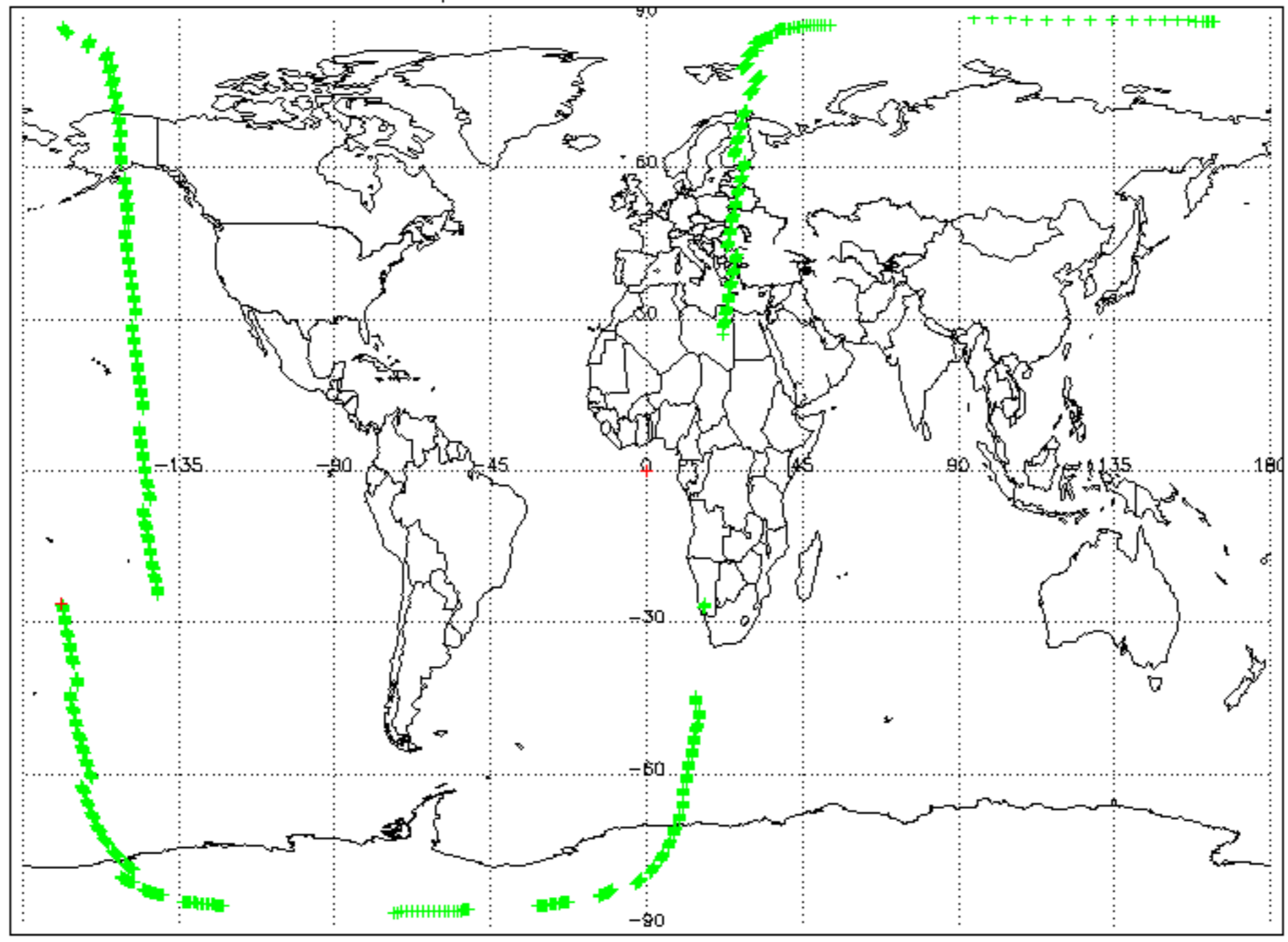


- + not corrupted
- + Unknown
- + corrupted transmission
- + Unknown 2
- + corrupted observational

Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band B



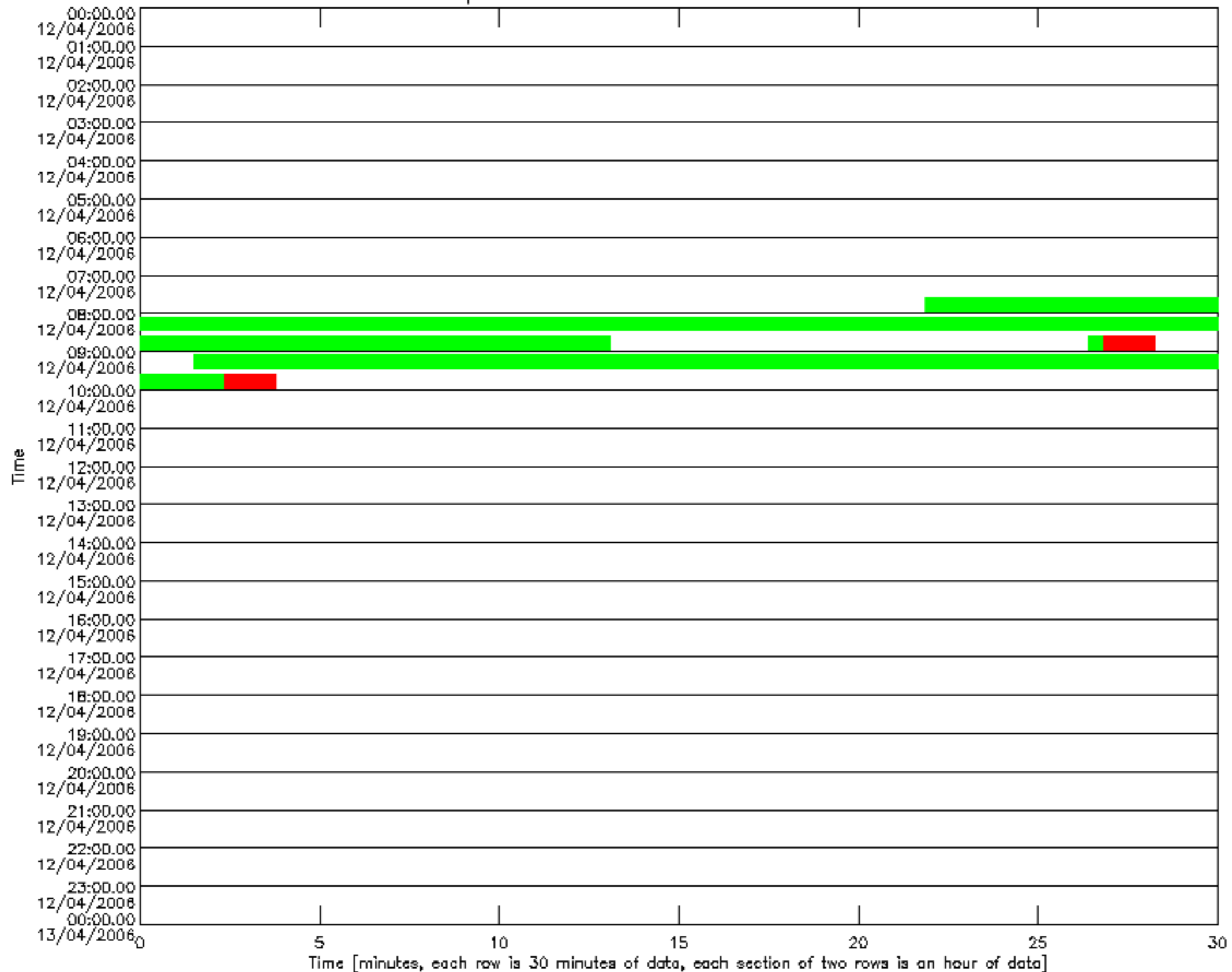
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band B



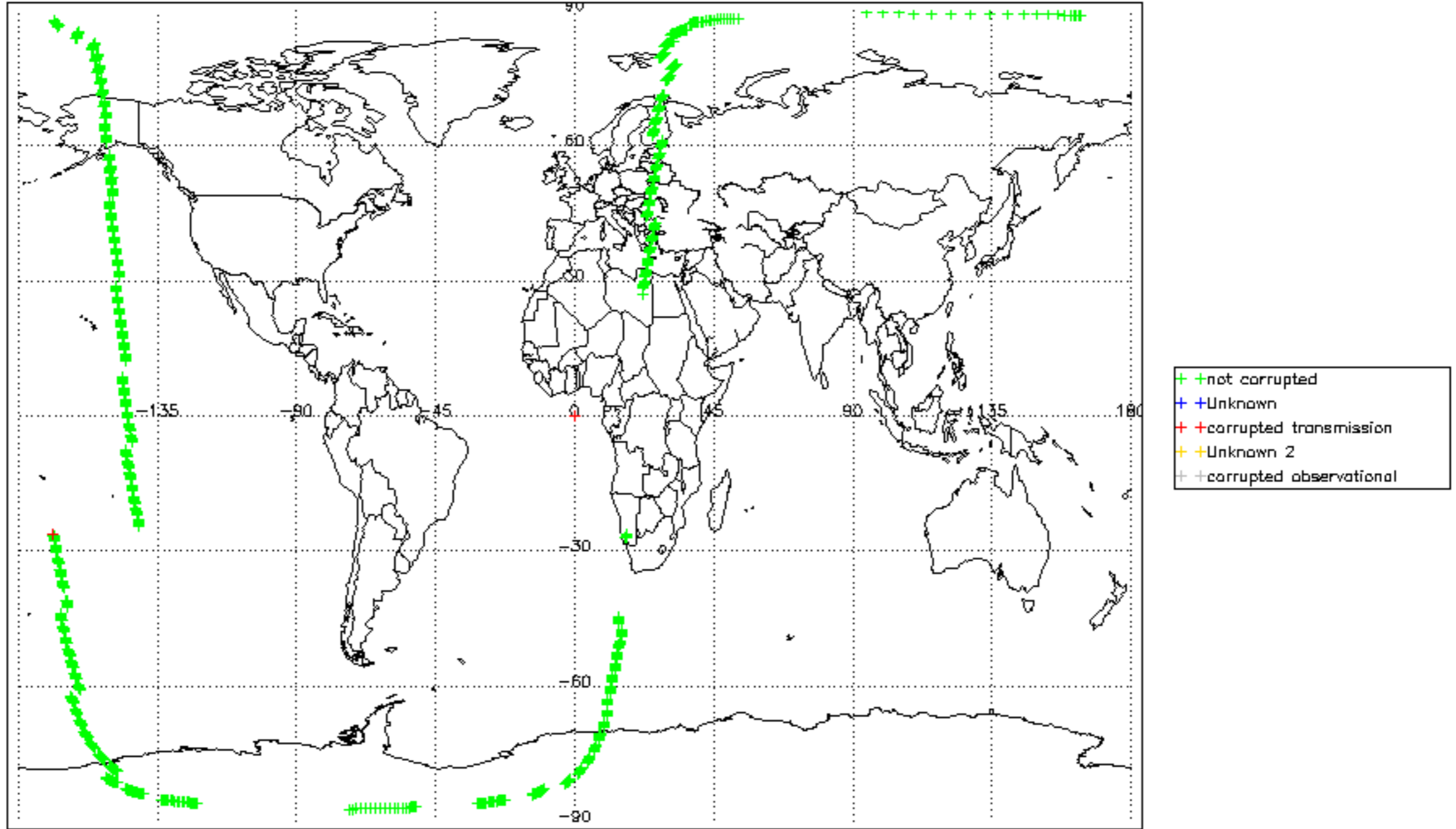
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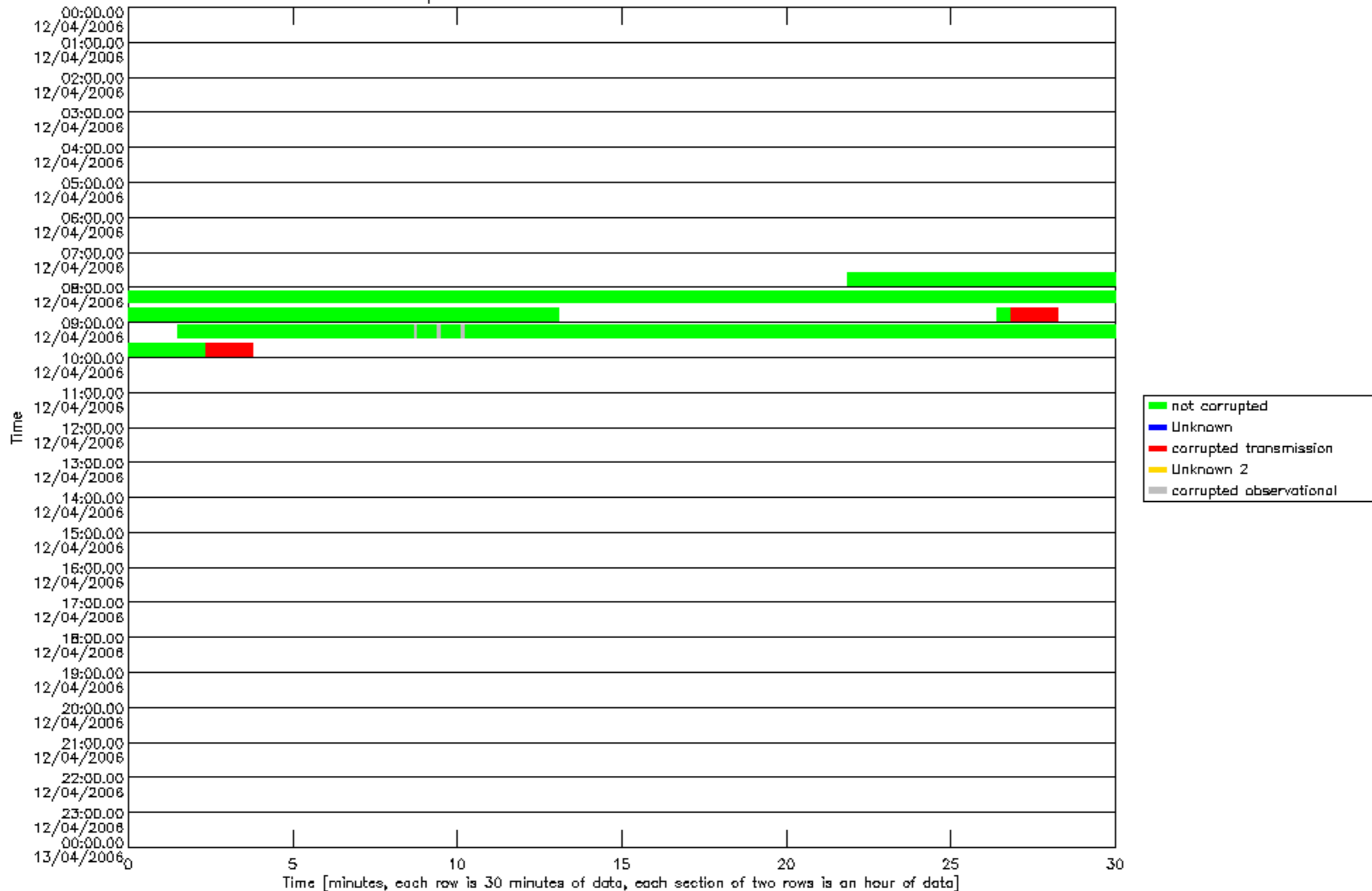
Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band C



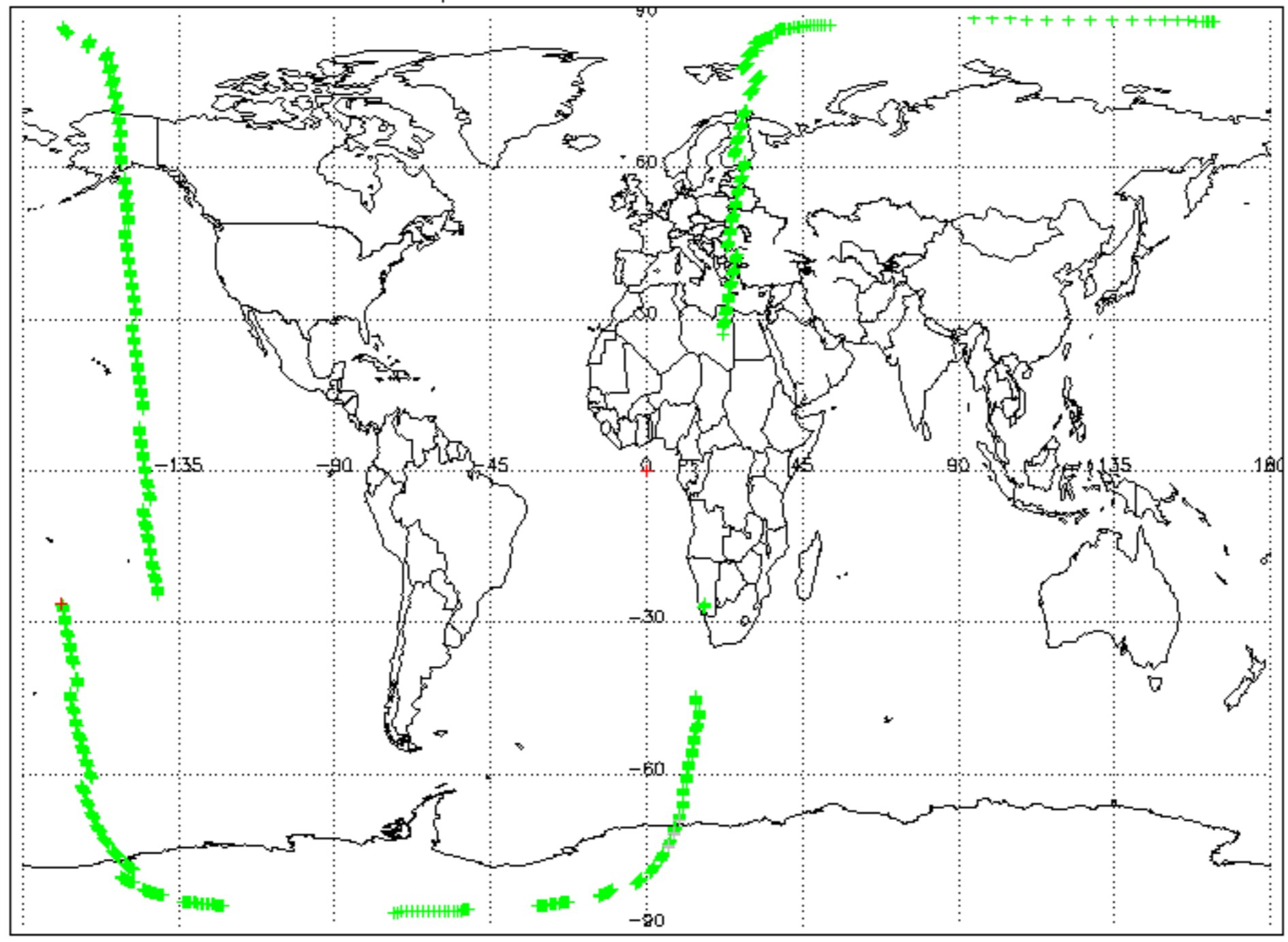
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band C



Bar plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band D

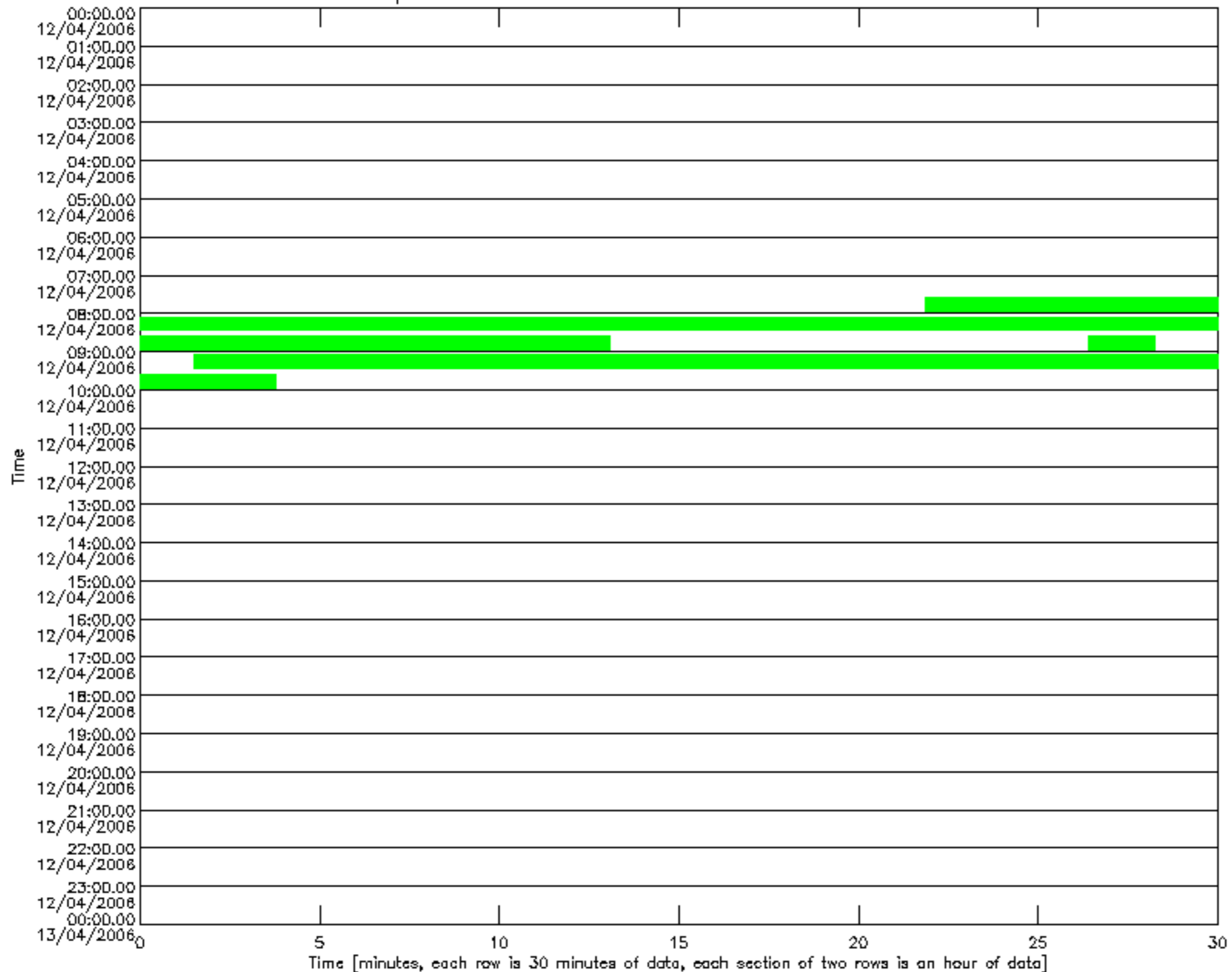


Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_band\_val band D



- + not corrupted
- + Unknown
- + corrupted transmission
- + Unknown 2
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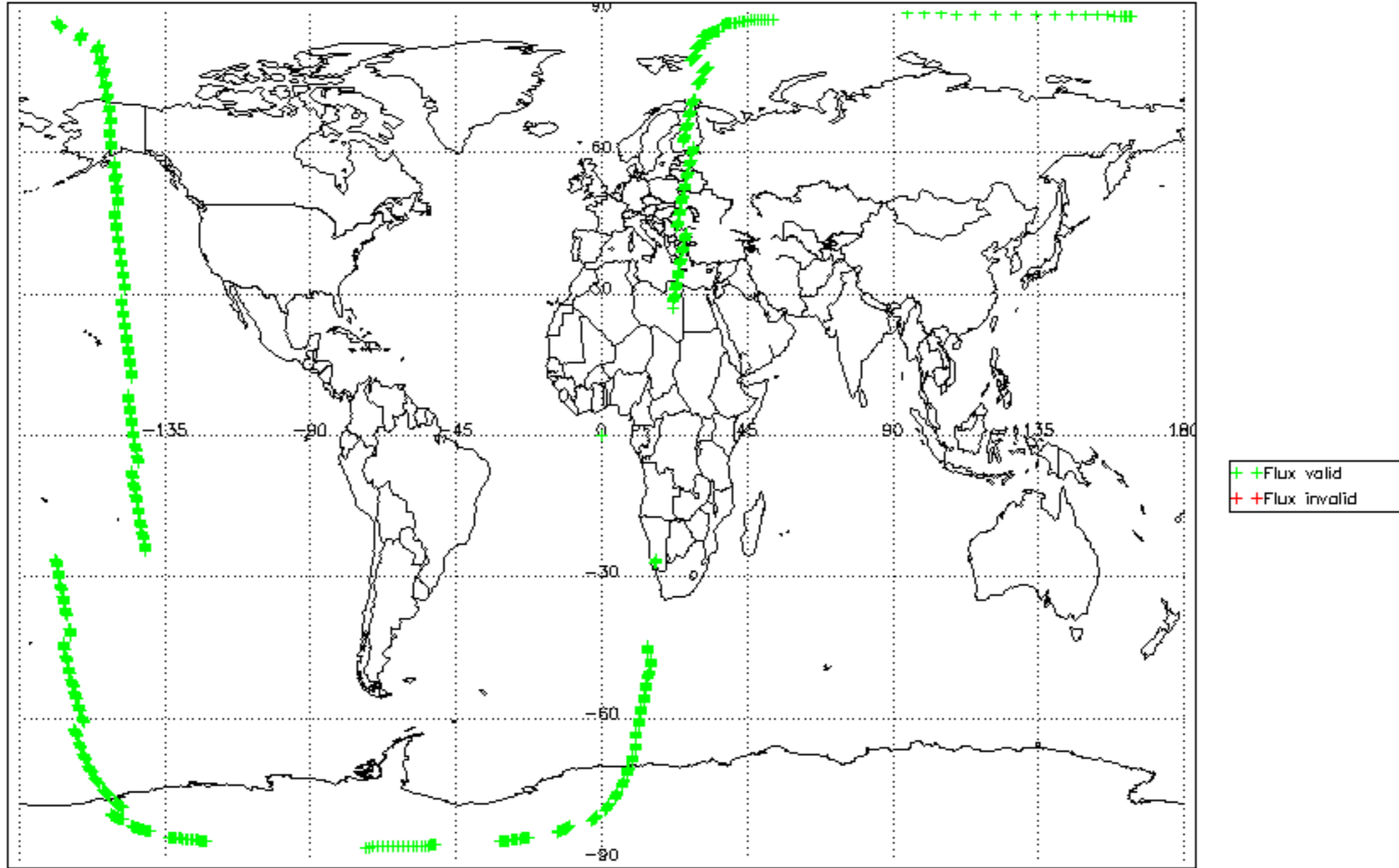
Bar plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_lin\_flux detector A1



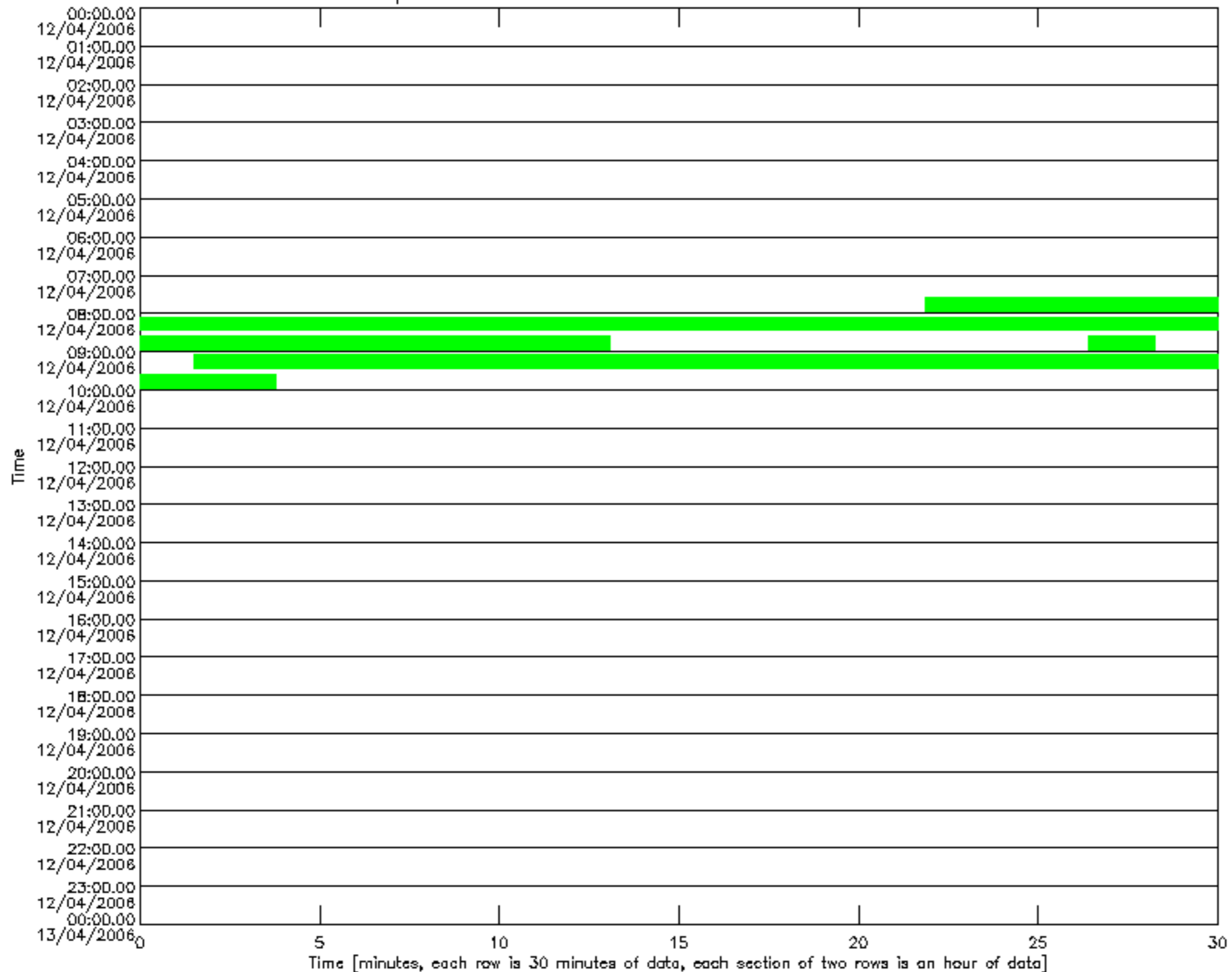
Flux valid  
Flux invalid



Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_in\_flux detector A1

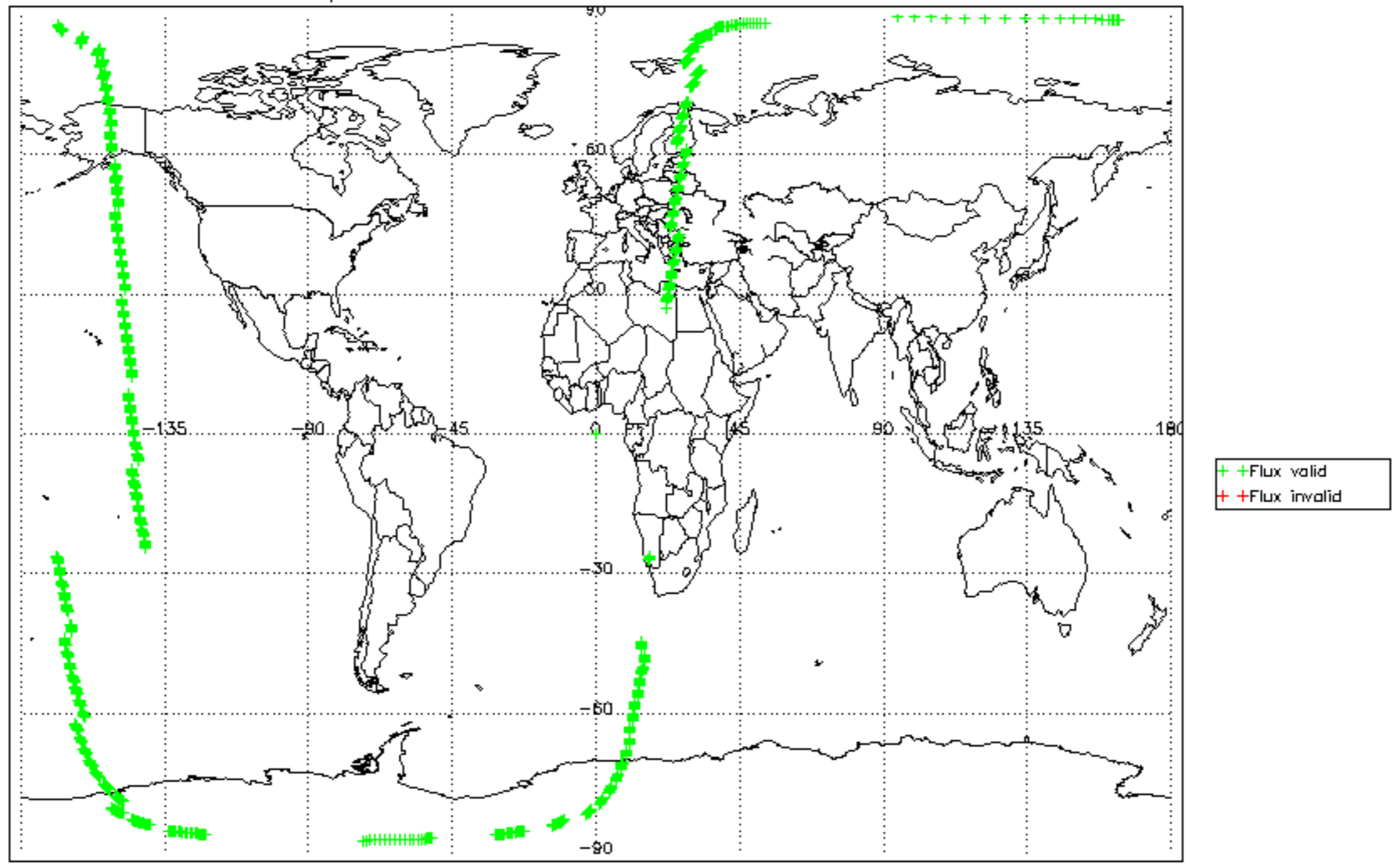


Bar plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_lin\_flux detector A2

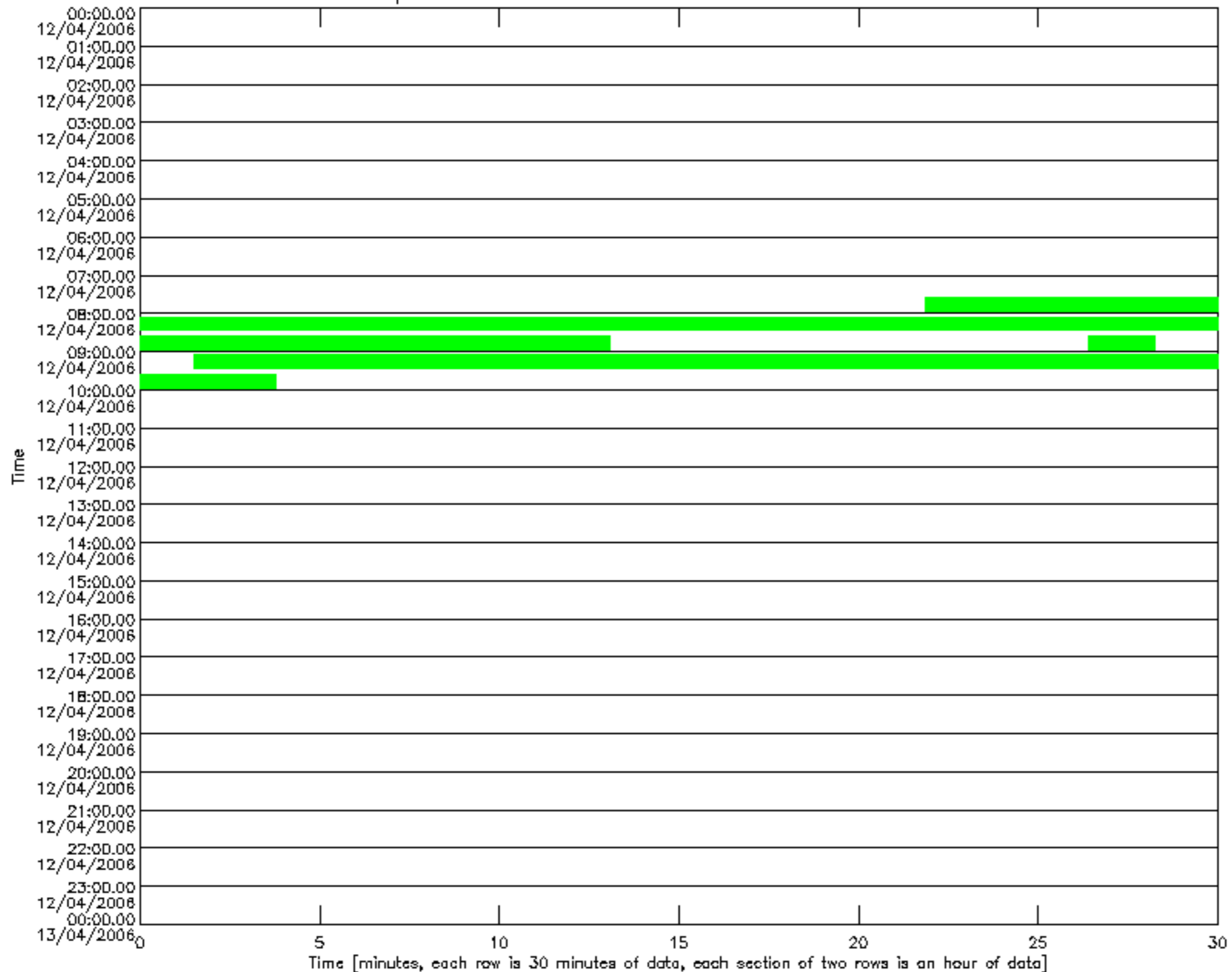


Flux valid  
Flux invalid

Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_in\_flux detector A2

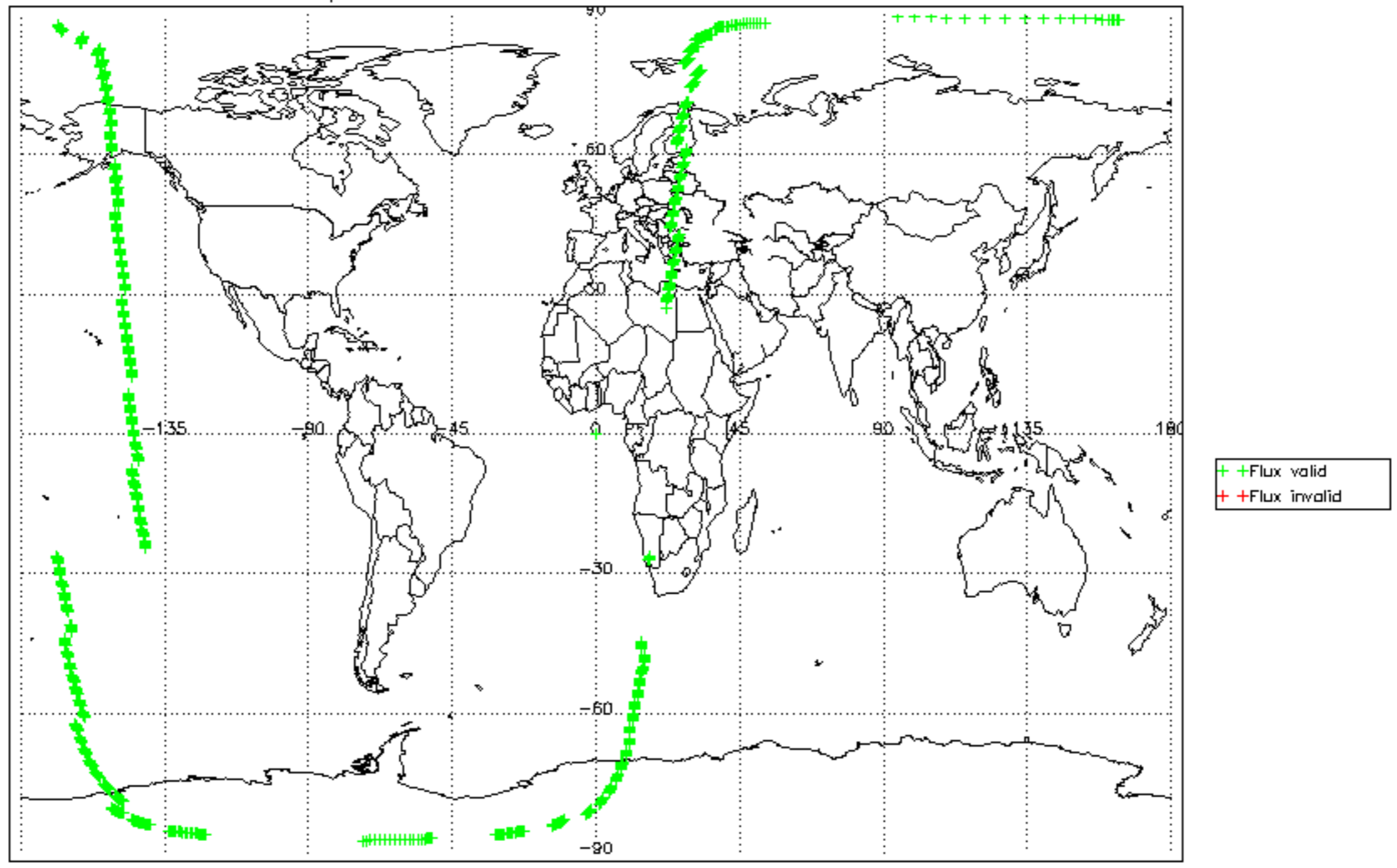


Bar plot of MIPNL1P\_MIPLEV1 BMDS\_detect\_non\_lin\_flux detector AB



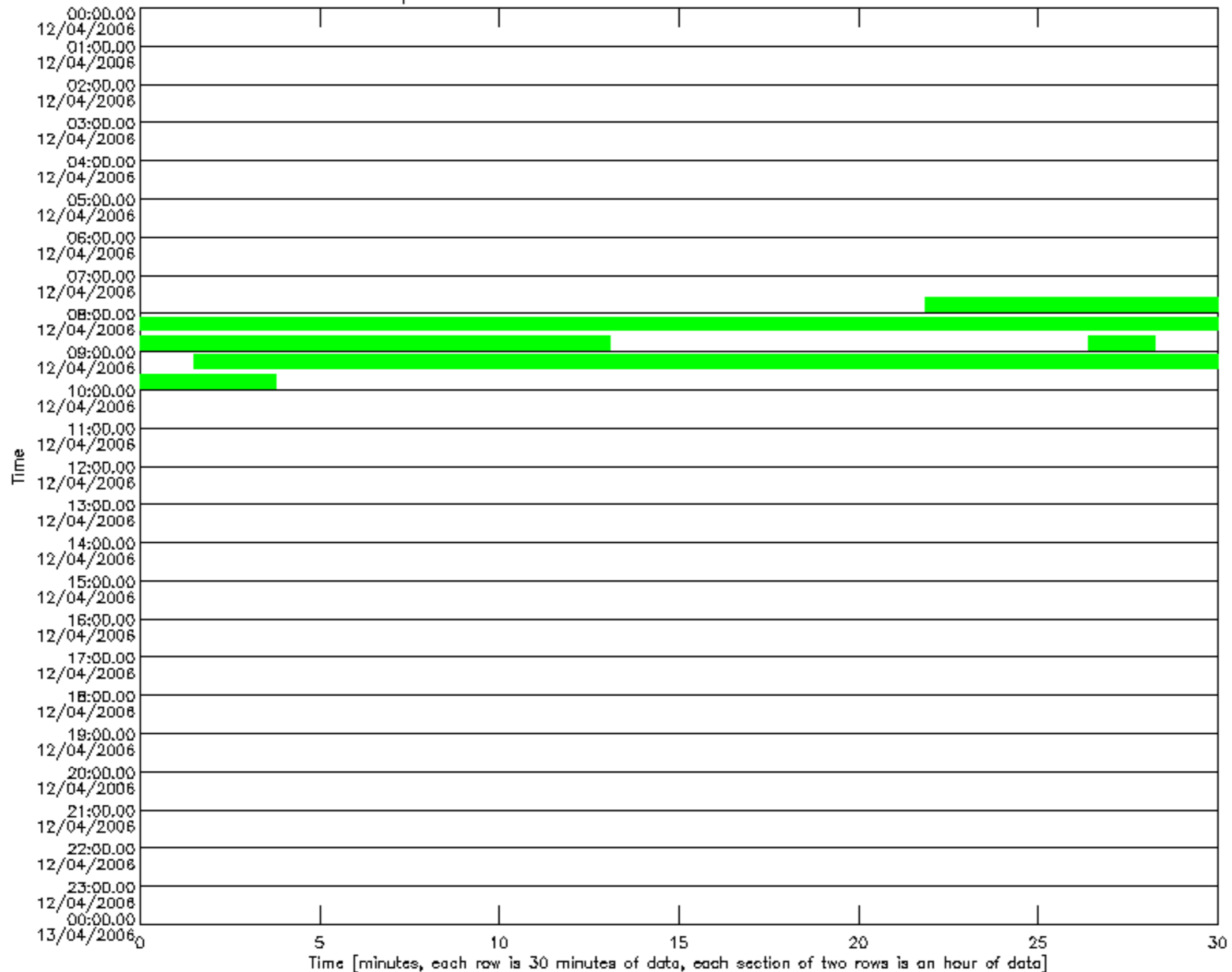
■ Flux valid  
■ Flux invalid

Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_lin\_flux detector AB



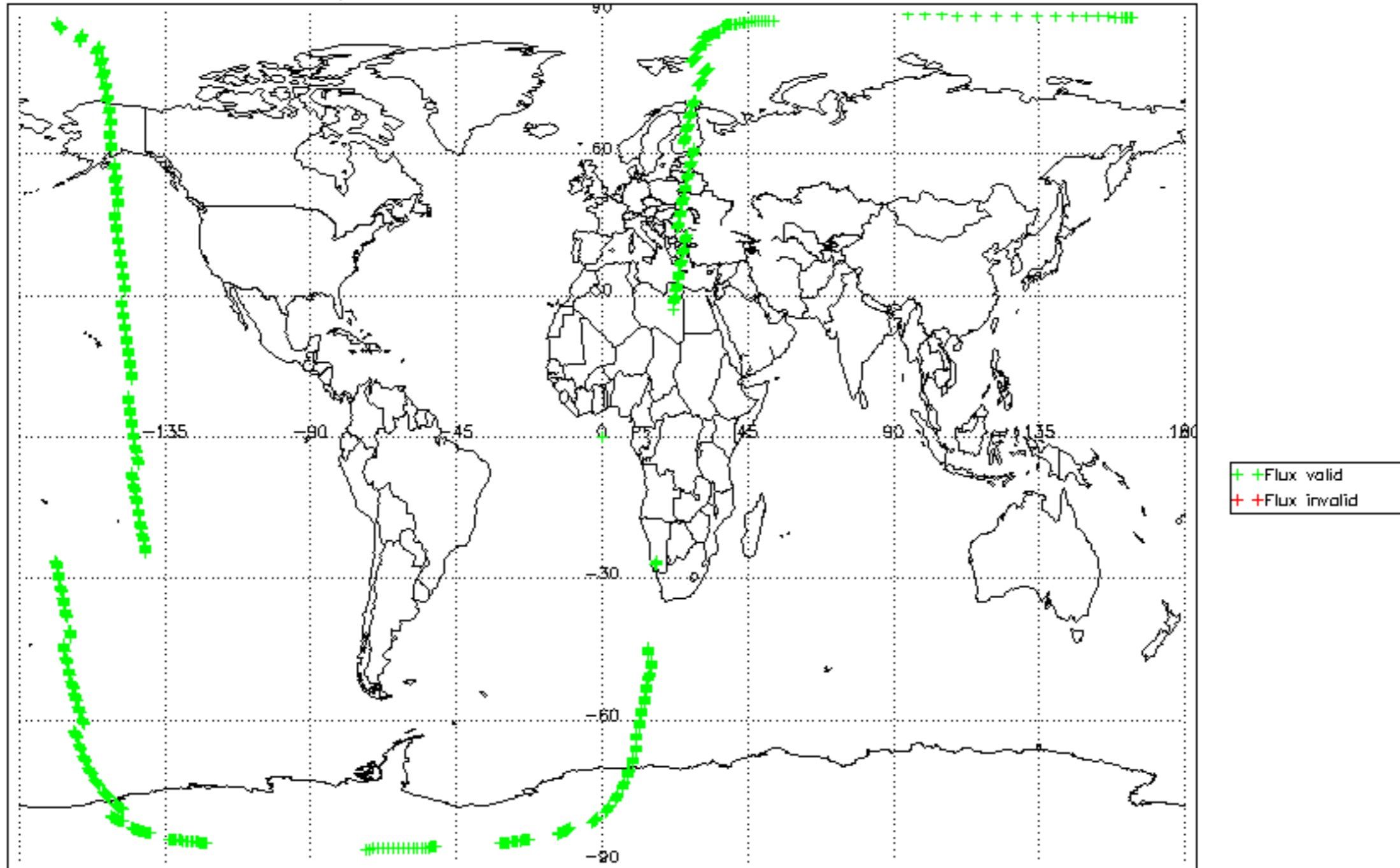


Bar plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_in\_flux detector B

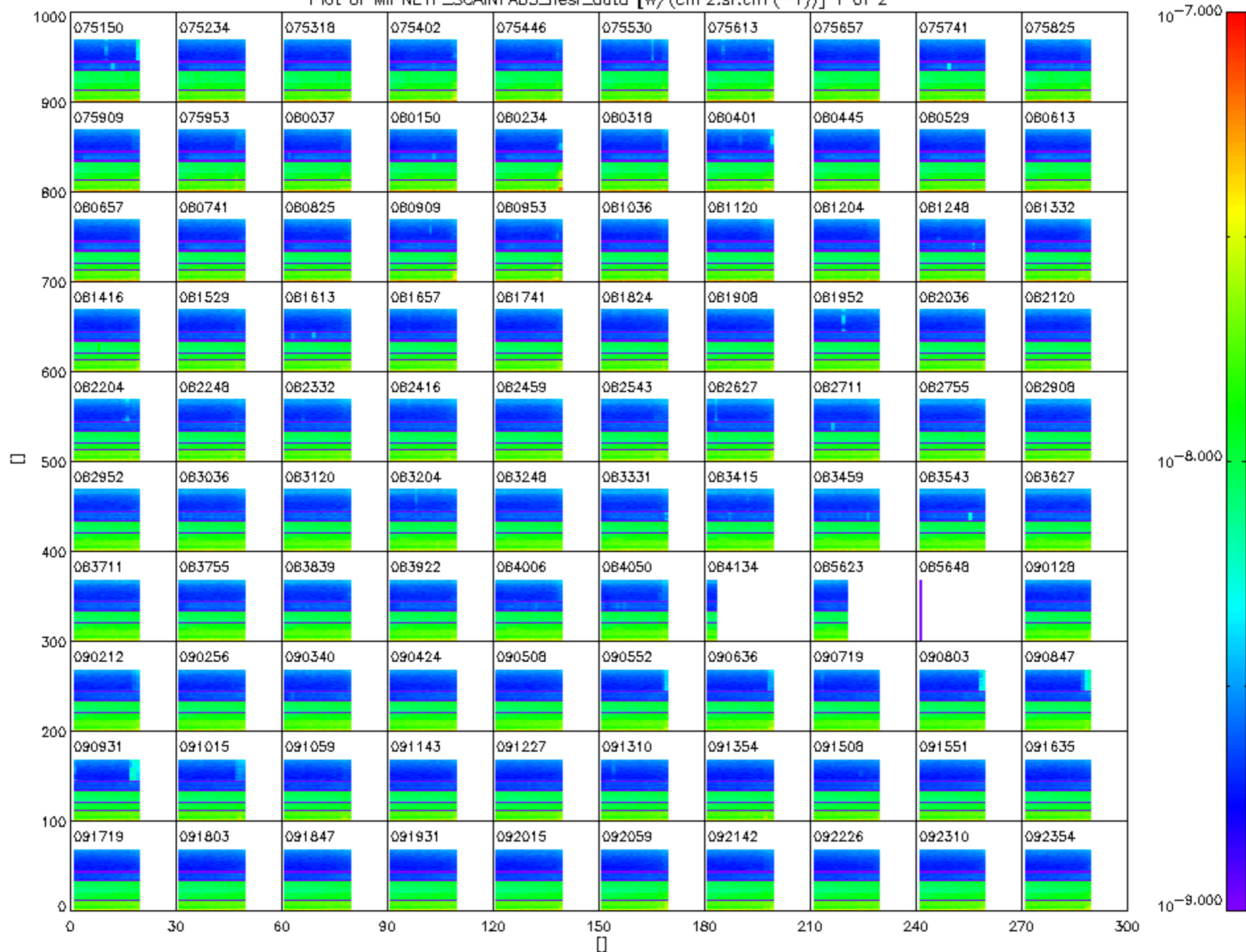


Flux valid  
Flux invalid

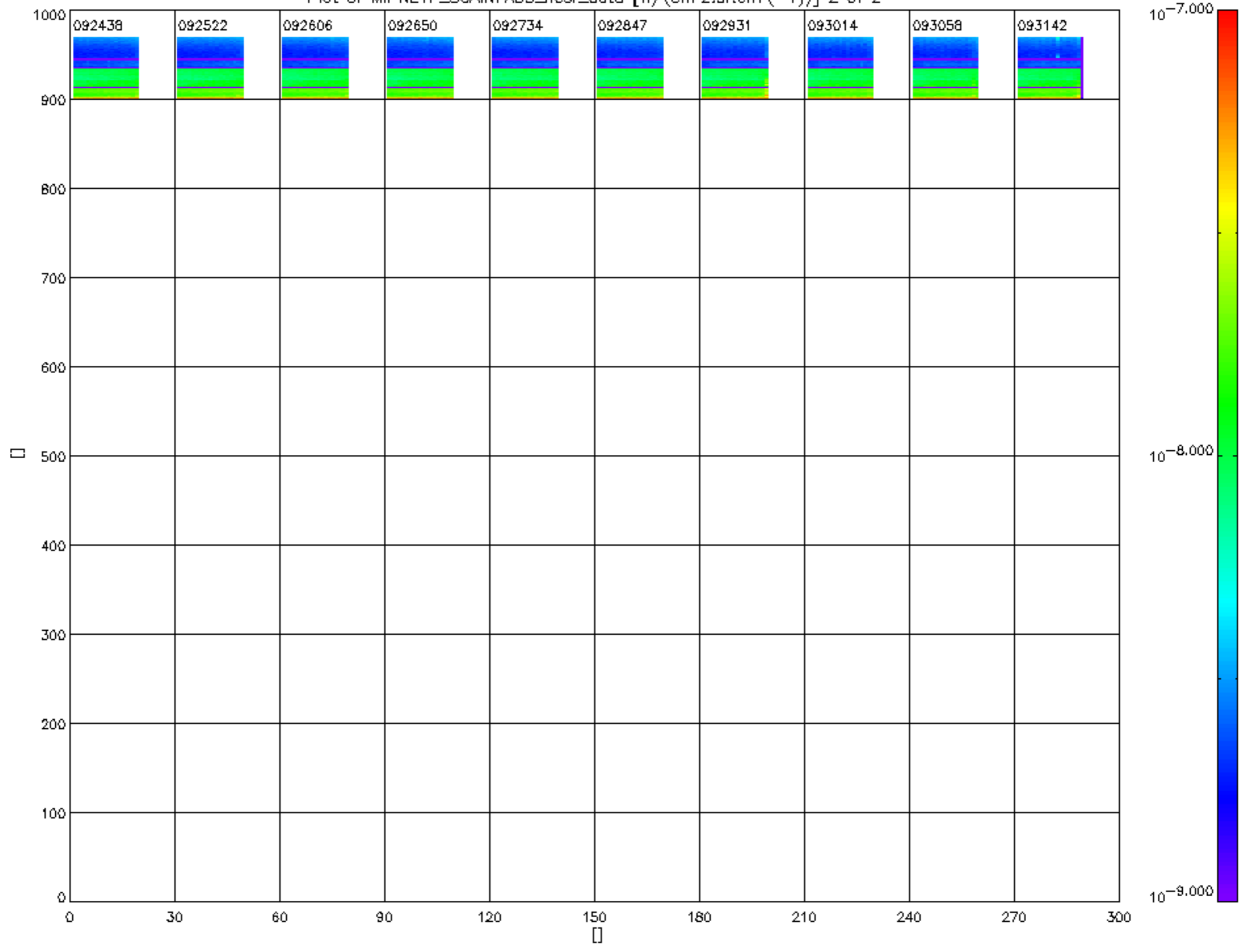
Geolocation plot of MIPNL1P\_MIPLEV1BMDS\_detect\_non\_Jin\_flux detector B



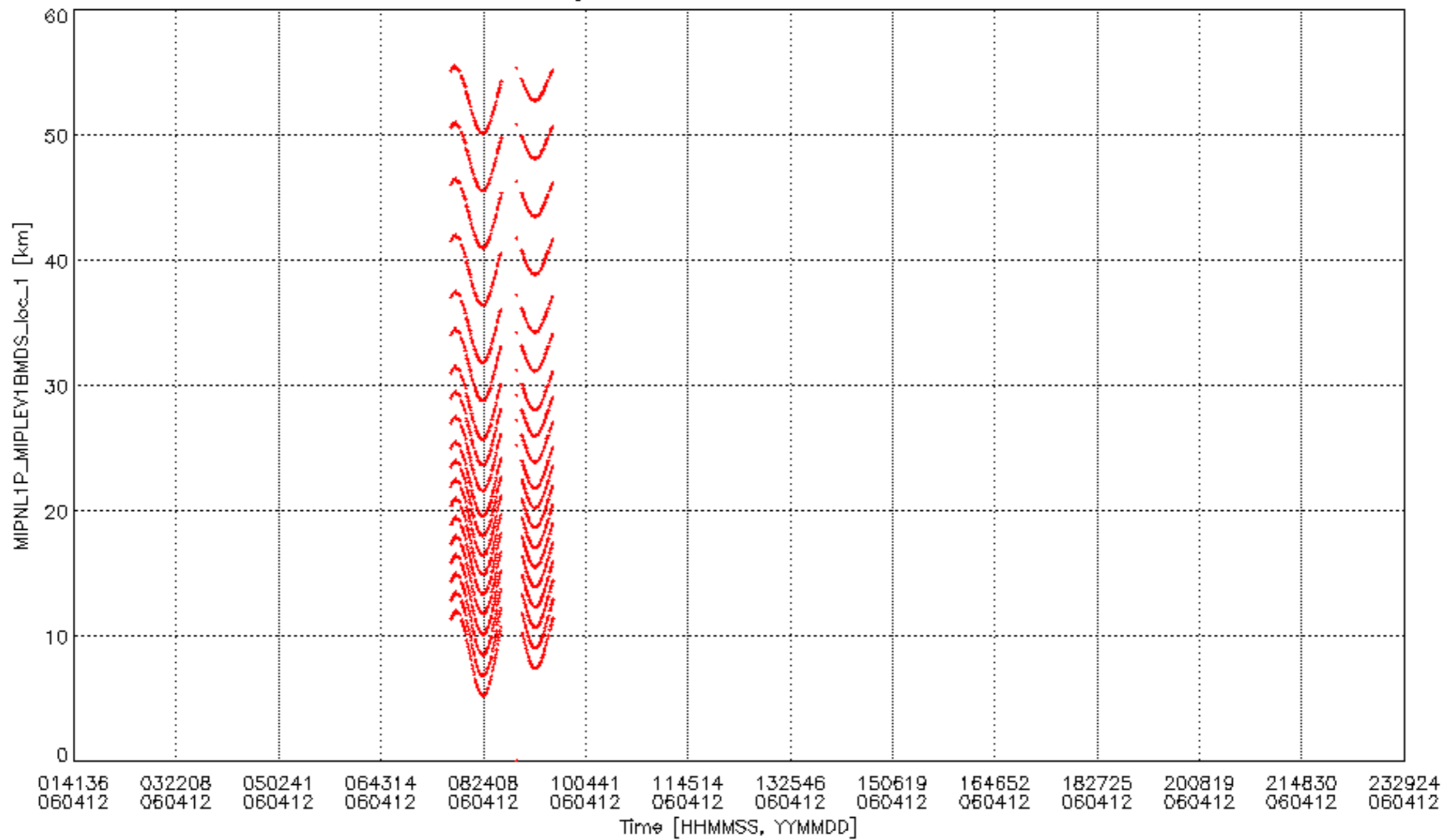
Plot of MIPNL1P\_SCAINFADS\_nesr\_data [W/(cm<sup>2</sup>.sr.cm<sup>-1</sup>)] 1 of 2



Plot of MIPNL1P\_SCAINFADS\_nesr\_data [W/(cm<sup>2</sup>.sr.cm<sup>-1</sup>)] 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).

