

1. MIPAS Daily Report for level 1 products

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1.1 General Info

This report contains a daily analysis on parameters extracted from MIPAS level 1 data (The MIP_NL__1P product).

1.1.1 Report summary

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

Item	Value
Report version	v1.31 02-08-2006
Time of report generation	25NOV2006 00:15:57
Data source version	MIPAS/4.67-P
Processing scope for products	20OCT2006 00:00:00 to 21OCT2006 00:00:00
Start time of first product within scope	20OCT2006 06:08:49
Stop time of last product within scope	20OCT2006 07:49:19
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__1PPDPA20061020_060849_000060302052_00149_24251_1033.N1	20OCT2006 06:08:49	20OCT2006 07:49:19	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

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.

1.3 Physical Quality Indicators

1.3.1 Tangent altitude

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:

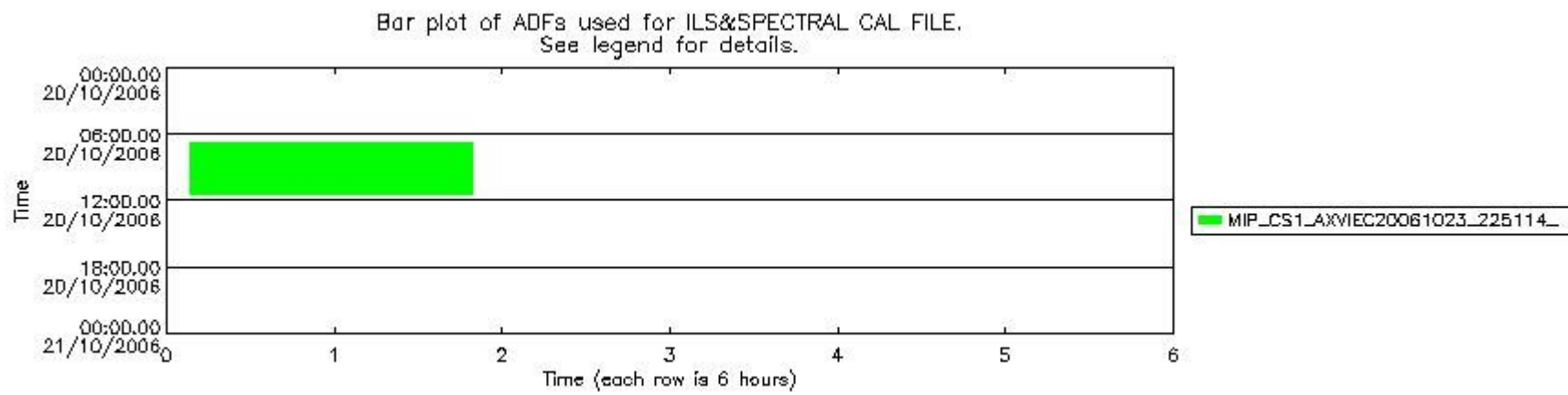
- Unconsidered instrument mode. The algorithm only considers nominal (39169) and special event (39172) instrument modes.
- Incomplete scan (missing sweeps)

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

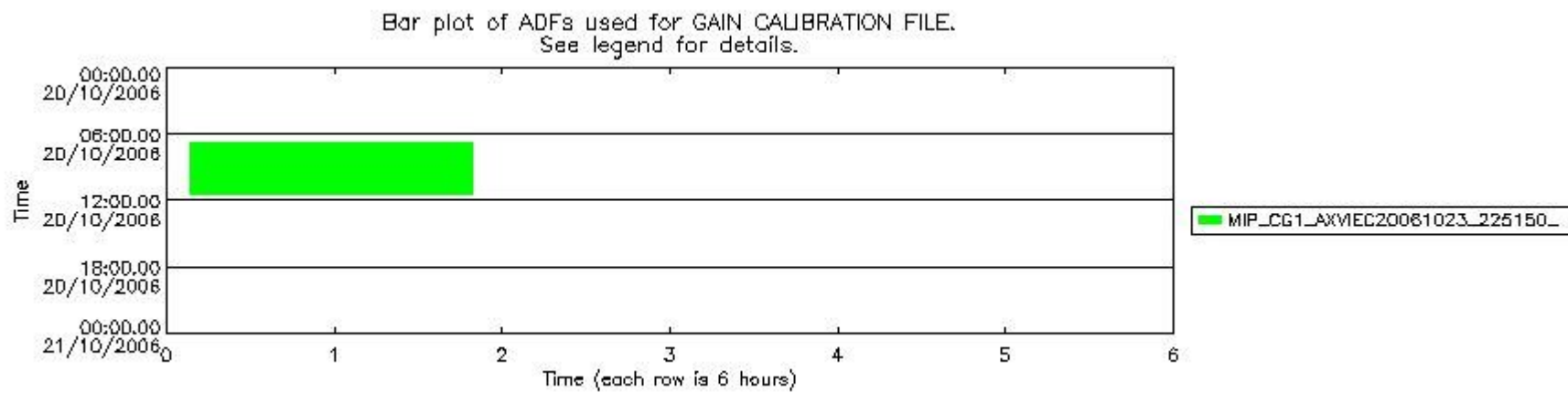
1.4 ADF monitoring

Number	ADF
0	AUX_FRO_AXVPDS20061022_234308_20061019_221000_20061022_005000
1	MIP_CA1_AXVIEC20050627_094412_20040809_000000_20090809_000000
2	MIP_CG1_AXVIEC20061023_225150_20061018_000000_20111018_000000
3	MIP_CL1_AXVIEC20050420_152028_20050420_095747_20100420_095747
4	MIP_CO1_AXVIEC20061023_225115_20061018_000000_20111018_000000
5	MIP_CS1_AXVIEC20061023_225114_20061018_000000_20111018_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_1PPDPA20061020_060849_000060302052_00149_24251_1033.N1	5	2	3	1	4	6	7	0

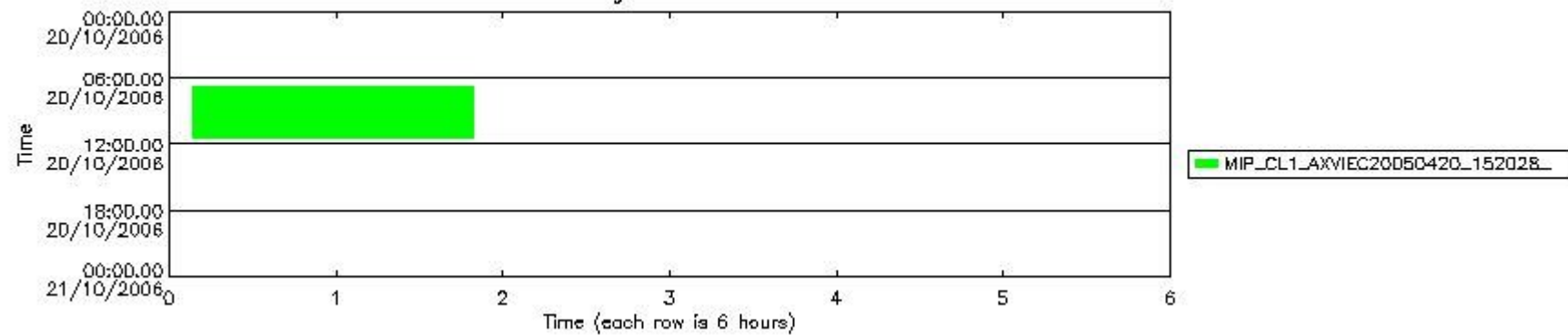


mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061020_0.PNG



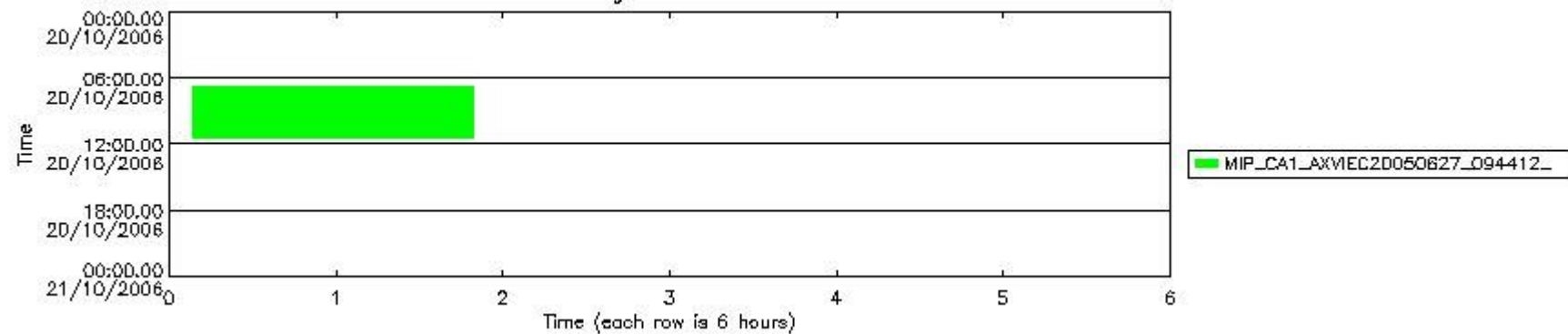
mipas_daily_report_level1_OFI_MIPAS_4_67_P_20061020_1.PNG

Bar plot of ADFs used for LINE OF SIGHT FILE.
See legend for details.



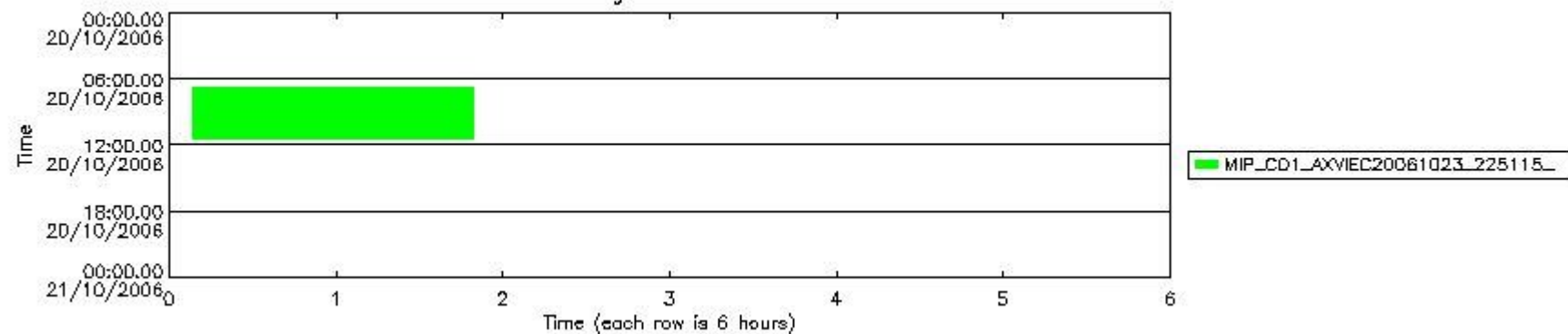
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_2.PNG

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



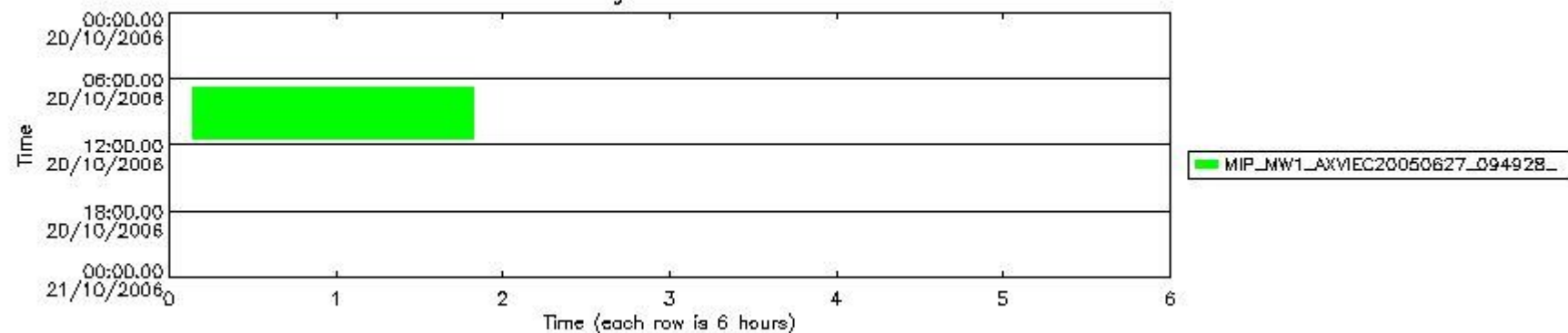
mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_3.PNG

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

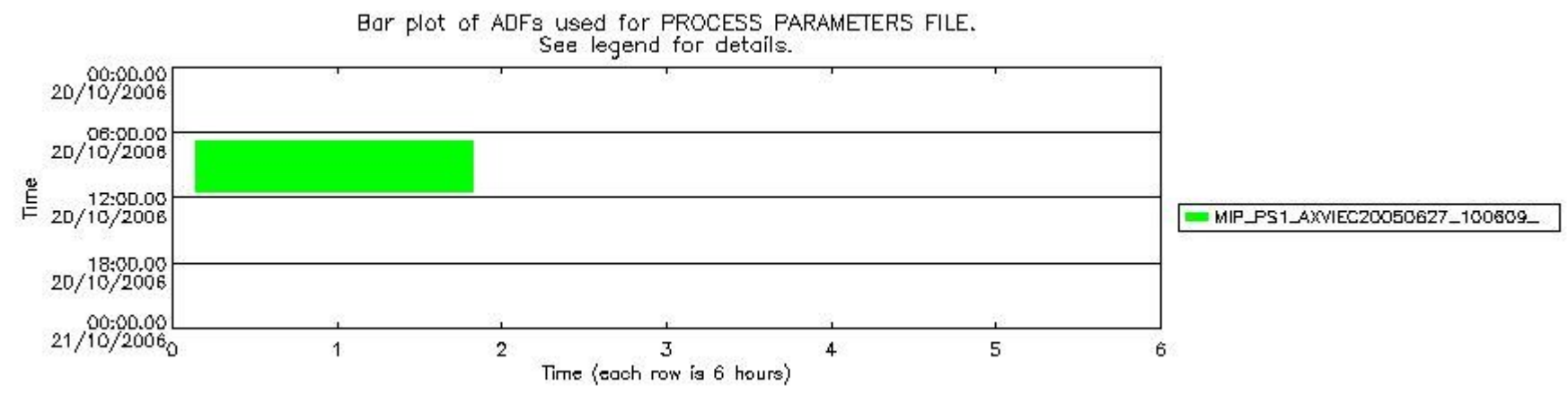


mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_4.PNG

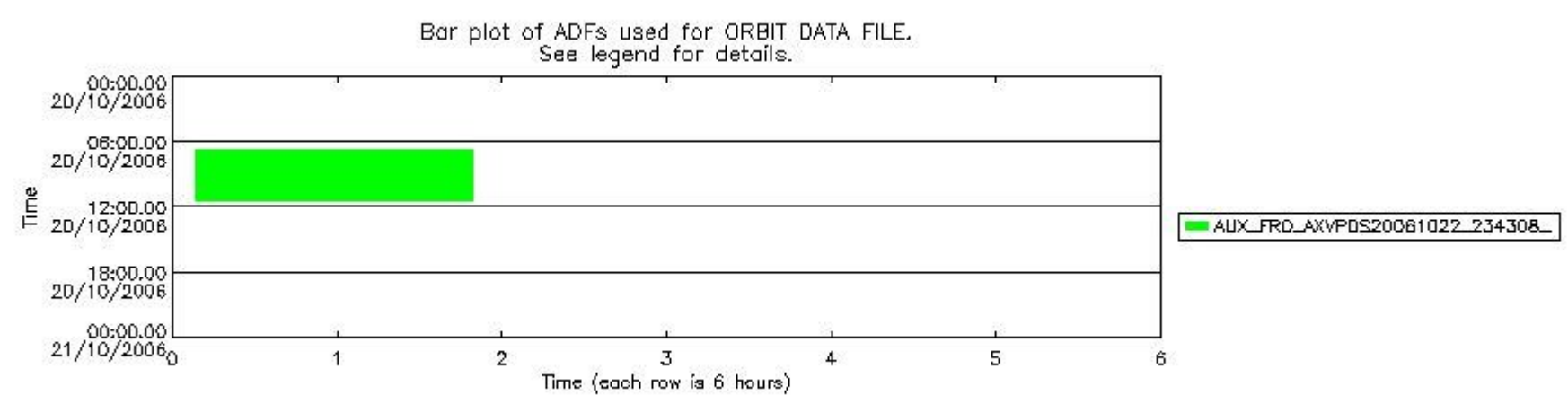
Bar plot of ADFs used for MICROWINDOWS FILE.
See legend for details.



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_5.PNG



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_6.PNG



mipas_daily_report_level1_OFL_MIPAS_4_67_P_20061020_7.PNG

