

CURRENT STATUS OF THE MIPAS FULL RESOLUTION MISSION

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29 July 2005

1 INTRODUCTION

This report briefly summarises the current status of the reprocessed MIPAS full resolution mission data availability. It further includes information concerning the access to Level 1B, as well as Level 2 data. More detailed information can be found in the MIPAS Monthly Reports, accessible on the ESA web site (<http://earth.esa.int/pcs/envisat/mipas/reports/monthly/>).

2 VERSIONS

In the context of the reprocessing at D-PAC the MIPAS L1B (MIP_NL__1P) and MIPAS Level 2 (MIP_NL__2P) data were processed either with version 4.61 or 4.62. The difference between the two processors is negligible for the validation exercise.

3 AVAILABILITY

The reprocessed data cover the complete full resolution mission starting 06/07/2002 und continuing until 26/03/2004. However, this does not imply that there will be data available for each day.

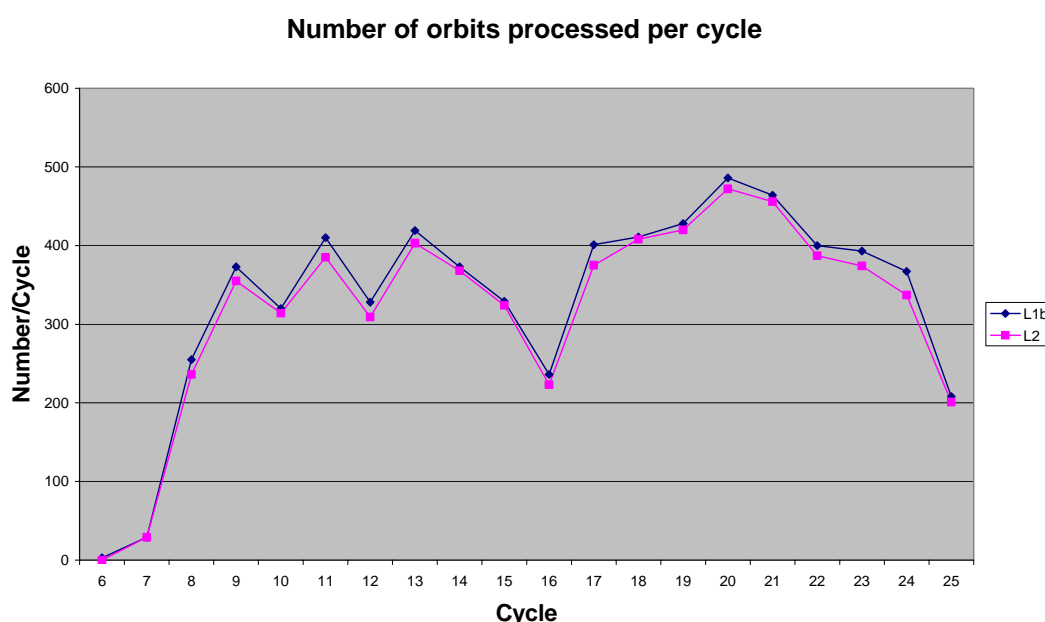


Figure 1: Number of reprocessed Level 1B and Level 2 orbits per cycle (Source: D-PAC Reprocessing Staus, 18 July 2005)

In order to estimate quantitatively the level of the MIPAS reprocessing reached at D-PAC, the “D-PAC reprocessing status” of 18 July was investigated. In Fig.1 the total number of reprocessed orbits per cycle for Level 1B and Level 2, is presented. Fig.2 shows the ratio between the number of received Level 1B and Level 2 orbits is presented. Except for cycles 6-8 this ratio is above 80%. Note that in some instances more than one Level 1B or Level 2 orbit is produced during the reprocessing activity. Therefore, the ratio can exceed 100% (in particular for cycle 6 two orbits were received and three Level 1B orbits produced resulting in 150%).

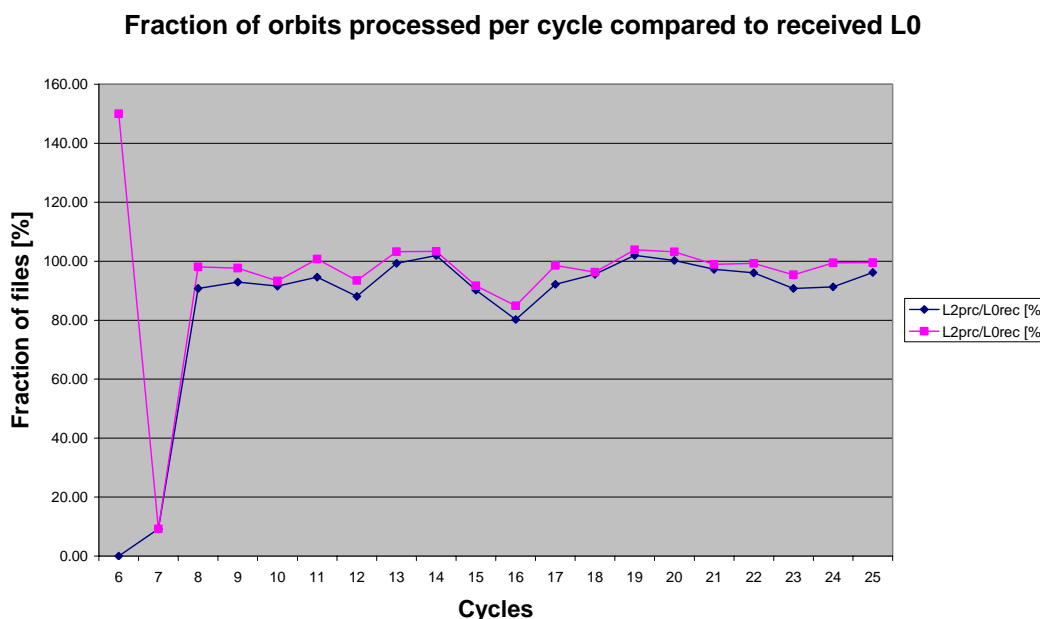


Figure 2: Fraction of reprocessed Level 1b and Level 2 orbits per cycle compared to the number of received Level 0 orbits. In some instances more than one Level 1B or Level 2 file can result from a Level 0 file, therefore values above 100% are possible (Source: D-PAC Reprocessing Status, 18 July 2005)

4 DATA ACCESS

4.1 Level 1B

For the reprocessed Level 1B (MIP_NL__1P) products a subscription service has been set up to provide these data to six different validation users (IMK Karlsruhe, FZ Jülich, BADC UK, CSIC SP, Carlotti Bologna, ESRIN) regularly once a week for all data re-processed during the preceding week. Dissemination medium to these sites is DLT. Note that this activity is yet to be completed for the cycles 7 and 8 (July/August 2002).

Individual subsets / single product files have to be ordered involving the nominal order service, i. e. via EOHelp using Eoli or the Multi-Mission Master Catalogue.

4.2 Level 2

All reprocessed Level 2 data (MIP_NL__2P) are currently available on-line via the ftp following site:

FTP site: ftp-ops.de.envisat.esa.int
 User: mip2usr
 Password: mip2usr
<ftp://mip2usr:mip2usr@tp-ops.de.envisat.esa.int>

The data are organised there in a tree structure by acquisition year, month, and day (i.e., yyyy/mm/dd/).

Note that the use of this data is restricted to the CalVal team members.

4.3 Near Real Time

Due to the fact that the quality of the reprocessed data is significantly enhanced, it is highly discouraged to use near real time (NRT) data for scientific investigation where reprocessed data is available.

APPENDIX: CONVERSION CYCLE TO ORBITS

CYCLES DEFINITION			
CYCLE	FIRST ABSOLUTE ORBIT	LAST ABSOLUTE ORBIT	ANX UTC
1	1	19	01 Mar 2002 02:53:55
2	20	369	02 Mar 2002 10:45:18
3	370	485	26 Mar 2002 21:59:53
4	486	555	04 Apr 2002 00:37:34
5	556	1056	08 Apr 2002 21:59:29
6	1057	1557	13 May 2002 21:59:29
7	1558	2058	17 Jun 2002 21:59:29
8	2059	2559	22 Jul 2002 21:59:29
9	2560	3060	26 Aug 2002 21:59:29
10	3061	3561	30 Sep 2002 21:59:29
11	3562	4062	04 Nov 2002 21:59:29
12	4063	4563	09 Dec 2002 21:59:29
13	4564	5064	13 Jan 2003 21:59:29
14	5065	5565	17 Feb 2003 21:59:29
15	5566	6066	24 Mar 2003 21:59:29
16	6067	6567	28 Apr 2003 21:59:29
17	6568	7068	02 Jun 2003 21:59:29
18	7069	7569	07 Jul 2003 21:59:29

19	7570	8070	11 Aug 2003 21:59:29
20	8071	8571	15 Sep 2003 21:59:29
21	8572	9072	20 Oct 2003 21:59:29
22	9073	9573	24 Nov 2003 21:59:29
23	9574	10074	29 Dec 2003 21:59:29
24	10075	10575	02 Feb 2004 21:59:29
25	10576	11076	08 Mar 2004 21:59:29
26	11077	11577	12 Apr 2004 21:59:29