

# OLP recovered observations

*ISO Data Centre*

*21 June 2007*

## Abstract

This set of Highly Processed Data Products contains 41 science observations which have been reprocessed with an upgraded version of the legacy pipeline OLP V10.1, fixing processing problems.

## Introduction

The ISO Off-Line Processing pipeline (OLP) [version 10.1](#) was released in November 2001. This was meant to be the last version and planned to be used for repopulating the archive with a homogeneous set of products, the archive thus becoming the Legacy Archive. The OLP 10 pipeline was subject to an intensive scientific validation process. In the course of its verification, still a few Software Problems Reports were raised. These were fixed with an upgraded version of the pipeline, version 10.2. It was decided not to repeat a full validation process on this version, concentrating instead only on the observations for which a difference in the products between the two version could be detected. It turned out that 41 science observations could be recovered with the OLP version 10.2. The software fixes had no relevant effect on all other observations. OLP Version 10.1 was used to repopulate the archive and the [Legacy Archive](#) was released in February 2002. The complete set of products for the 41 observations affected by the OLP 10.1 residual problems constitutes this HPDP.

## The software fixes

The main improvement in pipeline version 10.2 was a correction of a problem detected in the DERIVE\_ERD process in version 10.1, which resulted in the repetition of some itk records in the data (SPR 3691). This affected in principle 662 observations, on which the OLP10.2 pipeline was run. The final effect on the science data products was assessed comparing the products of the two versions.

## The assessment

Nineteen observations were found to present significant difference in their Auto Analysis products (table 1). For 19 observations (Table 2), pipeline version 10.1 could not reach the final stage and Auto Analysis products could not be derived. These products could be derived instead with version 10.2. Instrument experts validated all these observations by comparison with earlier versions of the pipeline. In addition, this HPDP set contains three PV Phase CAM observations (Table 3) which had failed in the OLP10 processing because of problems associated with the high number of pointings (SPR 3694).

Table 1

TDT	AOT
12101405	P03
12102515	P32
23902758	L02
26301352	L01
26800641	P22
29502630	P03
30901541	L02
32000584	P03
35201445	L01
38000703	P22
42300932	P38
44601936	P18
57802452	P38
59300648	L01
61400705	L01
74701826	P22
78801764	P22
80801535	P22
81900264	L02

Table 2

TDT	AOT
12601620	S01
13101002	S02
14801733	S01
27100447	P18
27100448	P18
27100449	P18
27100450	P19
27300407	S06
34904927	S07
36800543	S02
39104604	P22
40201614	S01
52300648	P38
52300649	P38
52300650	P39
61500203	S07
69802715	S02
70301713	S01
71901825	S02

Table 3

TDT	AOT
02600701	C03
02600802	C03
05401803	C03

## Conclusions

The Legacy Pipeline (10.1) has been found to present residual problems, which were fixed with an upgraded version (10.2). Only 41 science observations had been found to be significantly affected by these problems, and are recovered with pipeline version 10.2. The complete set of products for these observations (pipeline and browse products) is available in this HPDP.