

**Herschel Legacy Product task force meeting #8**  
**04/07/2017- 14:00 CEST - Room C031**

**Minutes of Meeting.**

**Present:** KE, EPu, EV, IV, SFB, DT, JCS (p.t.), PGL

1. Review of action items

<b>AI</b>	<b>Description</b>	<b>Actionee</b>	<b>Due date</b>	<b>Status</b>
<b>HPDP6-AI2</b>	All to assign categories to the HPDP under their custody: possible categories are "Better", "Alternative", "Complementary"	ICS	07/04/17	<b>Closed - general information table prepared</b>
<b>HPDP7-AI1</b>	Check which of the delivered HPDPs still need to get their headers refurbished, and apply the update when needed	DT/IV	13/04/17	<b>Closed - general information table prepared</b>
<b>HPDP7-AI2</b>	Check for which of the delivered HPDP what's the rule to recognize the prime postcard	ICS	13/04/17	<b>Closed - general information table prepared</b>
<b>HPDP7-AI3</b>	Check that all README or release notes in the form of html pages are self-contained and use absolute paths for images or hyperlinks	ICS	13/04/17	<b>Closed</b>
<b>HPDP7-AI4</b>	Copy full HPDP tarballs into dedicated area for full download via the HSA ( <a href="http://archives.esac.esa.int/hsa/legacy/HPDP/.forHSA">http://archives.esac.esa.int/hsa/legacy/HPDP/.forHSA</a> )	DT	07/04/17	<b>Closed - All delivered HPDPs have been copied</b>
<b>HPDP7-AI5</b>	Copy full ADP tarballs into dedicated area for full download via the HSA ( <a href="http://archives.esac.esa.int/hsa/legacy/ADP/.forHSA">http://archives.esac.esa.int/hsa/legacy/ADP/.forHSA</a> )	DT	07/04/17	<b>Closed - All delivered ADPs have been copied</b>

## 2. Status and demo of HSA 8.2 – validation campaign (EV, ICS, ER)

List of screws considered for 8.2 (now on new SOCCI Jira system):

<https://issues.cosmos.esa.int/socci/browse/HSAPCR>

Eva made a demo of what the 8.2beta1 looks like, esp. with the new front page and the menus enhanced with additional options.

- We discussed the work involved for ICS in order to populate README xml files prior to HPDP ingestion. The concept is the same as for the UPDPs. Apart from title, author, etc, ICS will have to list all data and postcard files involved, and indicate for the latter whether they are to be considered PRIME (aka “main” in HSA terms) or not.
- There is no HPDP ingested yet in the HSAINT. Eva will work out a couple of examples herself (we settled on the SPSC and the SPIRE-P HiRes maps) to practice the whole workflow, and will then train us on how to take care of the README xml files for the other HPDPs.
- We discussed the Data Type scroll down menu for HPDPs. It is the same as UPDP, with a additional “Line Catalogue” entry. A long discussion followed reg. the unwelcome fact that no dedicated entry for Catalogue would be possible in this menu. We finally agreed to remove the Line Catalogue entry, and as such PSC will be filtered through the “Image” Data Type, while line catalogue will be filtered through the “Spectrum” Data Type.
- Because the scroll down menu of HPDP names will list them alphabetically, we agreed that all titles should start with the instrument name. We should probably distinguish between instrument mode, i.e. use one of “HIFI”, “PACS-P”, “PACS-S”, “SPIRE-P” or “SPIRE-S”.
- Another entry in the README xml file we will have to make up is the HPDP nickname (e.g. “GOODS” for UPDP). The idea is that it should be self-explanatory and reasonably short (but there is no length limit). We propose to add this info in the attribute table maintained by the ICSs (see below).
- The ADP interface is representative of the final one. We agreed on the benefit of adding a third column to link to the “Data Repository” of the ADP, which will link to the legacy repository page. There’s also an AI on DT to rename the calibration tree ADP, as well as inform Eva about what to do with the PACS, SPIRE, and Herschel Operational Data ADPs (those won’t have “Full download” options).
- Eva should add the ADP in the data-product-overview cosmos page

The ICSs have prepared a table informing about the category for the HPDPs (Better/Alternative/Complementary) and the naming convention for the postcards, esp. to identify the prime postcard to be used. The table can be found at:

[http://herschel.esac.esa.int/twiki/pub/Public/HPDPDefinitionPage/HPDP\\_Attributes.doc](http://herschel.esac.esa.int/twiki/pub/Public/HPDPDefinitionPage/HPDP_Attributes.doc)

We agreed that this doc file is not a practical way to update the info by various people. This file will be transferred to a GoogleDocs (AI on DT). We will also add a couple of columns to cover some other attributes that will be needed in the generation of the README xml file to HPDP ingestion (e.g. HPDP nickname).

As agreed at the last meeting, tarballs of all currently delivered HPDPs/ADPs have been prepared to support the full download use case. These pages will be used to link to the Full download icon in the ADP interface:

- <http://archives.esac.esa.in/hsa/legacy/HPDP/.forHSA>
- <http://archives.esac.esa.int/hsa/legacy/ADP/.forHSA>

### 3. Current status of HPDP objectives per instrument and their schedule

#### a. Existing or on-going deliveries for HPDPs and ADPs/review of priorities

The following table summarises the status, timeline and priority of currently contemplated HPDPs. The target delivery dates in the table reflect the discussion held during the meeting.

HPDP name	Status	Expected delivery	Priority/ custodian
<b>HIFI</b>			
Expert-reduced Spectral SScans	Delivered	06/2017	1 / DT
Expert-reduced Spectral Maps	V1 delivered	<b>V2 08/2017</b>	1 / PM, SB
Flux Uncertainty error budget tables	Delivered	N/A	2 / DT
OFF spectra data products	Delivered	N/A	2 / DT,MR
Non-averaged level 2 (UPDP)	Delivered	N/A	2 / DT
Spectral line catalogue	On-going	07/2017	3 / IRAP
Fix of anomalous observations	<b>De-scope</b>	06/2017	3 / DT
<b>PACS</b>			
PACS-S red leak range	Delivered	03/2017	1 / EP
PACS -S blue range	TBD	07/2017	2 / EP
PACS-S unchopped baseline correction	TBD	09/2017	2 / KE
PACS-S OFF spectra	On-going	07/2017	2 / KE
PACS-S POC	TBD	09/2017	3 / EP
PACS-S fix of anomalous observations	TBD	10/2017	3 / KE
PACS-S non-standard AOT	TBD	09/2017	3 / EP
PACS-S extremely bright sources	<b>As UPDP</b>	Unknown	3 / UPDP
HPPSC	V1 delivered	04/2017	1 /Konk.
PACS-P Unimap HPDP	Delivered	07/2017	1 / LC/DT
PACS-P JScanam HPDP	Delivered	03/2017	3 / JGC
PACS-P Mini-Scan level 2.5	<b>De-scoped</b>	NA	3 / LC
Unimap on cosm. fields revisited	<b>As UPDP</b>	10/2017	3/ BA

SPIRE			
SPIRE-S background correction	Delivered	N/A	1 / IV
SPIRE-S SECT and POCT calibration spectra	Delivered	12/2016	1 / RH
SPIRE-S high absResolution spectra	Delivered	12/2016	2 / RH
SPIRE-S non-averaged spectra	Delivered	12/2016	2 / RH, IV
SPIRE-P HiRes products	Delivered	01/2017	2 / IV
SPIRE-S spectral feature catalogue	V1 delivered	V2 08/2017	2 / IV
HSPSC	V2 delivered	V3 07/2017	2 / IV
SPIRE-P level3 maps of Gal plane	De-scoped	N/A	3 / ICC
SPIRE-S fix of anomalous observations	De-scoped	07/2017	3 / IV
SPIRE-P destriped maps	On-going	08/2017	3 /DC, IV
SPIRE-P astrometry corrected maps (NEW)	Delivered	06/2017	3 / IV

Some detailed inputs on specific HPDPs:

- The first SPIRE-P destriped maps have been generated with the help of Daniela. Pending work with level 2.5 maps.
- Anomalous obsid:
  - HIFI: agreed to **de-scope** – only pending work is to identify which ones they are and check that a QSummary entry exists
  - PACS-S: same as for HIFI
  - SPIRE-S: investigation on the SPIRE-S anomalous obsid indicates that there's likely no sizeable improvement in trying to get rid of the unruly scans. This HPDP should therefore be **de-scoped** and the rest of the work is on the QSummary.
- PACS-P Unimap: all fields processed, release notes ready. Release on hold because of an issue to create a postcard.
- "PACS-S POC" and "PACS-S non-standard AOTs" are now considered nice-to-have. There's a new AI to provide the list of obsids concerned by those WPs.
- Good progress on new version of the SPSC and SFC – expected this Summer

We then had a dedicated discussion on two PACS-S HPDP items:

- **Parallel wavelength range postcards:** it is still unclear how the pipeline decides whether a given parallel range should be plotted or not in the postcard. Figuring this out definitely would involve the help from a developer. Katrina will ask Juergen, but we decided that **we won't prepare any dedicated postcard**. Instead we will see if any information could be added as a QSummary entry (this requires clarification from Juergen).
- **New HPDP for ON-OFF unchopped range observations:** in those observations the ON and OFF spectra are acquired in separated obsids, therefore there is no unique postcard allowing to compare the ON and OFF line of sight side-by-side, which is unlike what is being done for e.g. the line scan ON-OFF HPDP. Katrina proposes to create a dedicated postcard, together with a curated set of products that would allow direct comparison for the ON and OFF. We agreed that Katrina is best placed to

decide on the relevance of this and so she can proceed with generating such material as long as this does not impact her other high priority HPDP work.

The following tables summarises the status, timeline and priority of currently contemplated ADPs

ADP name	Status	Expected delivery	Priority/ Custodian
<b>HIFI</b>			
HIFI Trend Analysis Data Products	Delivered	N/A	3 / DT
HIFI Tsys Data Products	Delivered	N/A	3 / DT
HIFI Beam Data Products	Delivered	N/A	1 / DT
HIFI OBSW images	Delivered	12/2016	3 / DT
HIFI LCUSW and Safety tables	Delivered	12/2016	3 / DT
<del>ILT diplexer data products</del>	<b>De-scoped</b>	01/2017	3 / DT
ILT gascell data products	Delivered	03/2017	3 / DT
SEU monitoring data products	Delivered	01/2017	3 / DT
<b>SPIRE</b>			
SPIRE-S and SPIRE-P Beams	Delivered	N/A	1 / IV
SPIRE-P filter transmission curve	Delivered	N/A	1 / IV
SPIRE-S diffraction losses	Delivered	N/A	1 / IV
SPIRE OBSW images	Delivered	N/A	3 / RH
Trend monitoring data products	Delivered	N/A	3 / IV
CDMS simulator	<b>De-scoped</b>	Best effort basis	3 / RH, IV
Noise spectra for SPIRE-S	Delivered	03/2017	3 / IV, RH
<b>PACS</b>			
PACS-P and PACS-S Beams	Delivered	04/2017	1 / LC, EP
PACS-P filter transmission curve	Delivered	04/2017	1 / LC
PACS OBSW (CDU and SPU)	Delivered	12/2016	3 / ICC
Trend monitoring data products	Delivered	12/2016	3 / ICC
SEU monitoring/log	Delivered	12/2016	3 / ICC
PACS-S calibration source spectra	On-going	07/2017	3 / DT

The CDMS simulator item is considered **de-scoped**.

#### **b. Status of ancillary deliveries for Point Source Catalogues**

Both X-obsid and postcards files have been made available for SSPC by Ivan (on the updpc account). This is still pending for PACS although Gabor indicated this is being worked on at the moment, based on the footprint. Postcards could be created as a by-product of this effort.

#### **c. Status of legacy repository**

We discussed the status of the repository area pages, esp. their completeness in terms of README and file sub-directory. It was noted that not all pages have a

proper title and/or custodian/date info. AI to identify where this is missing, and to complement it.

#### **d. Status of announcement of HPDPs/ADPs to the user community**

We discussed the status of the announcement reg. HPDPs/ADPs in previous and upcoming eNews. Also discussed the dedicated press release that just went out on the two PSCs (<http://sci.esa.int/herschel/59222-new-catalogues-for-herschel-legacy-archive/>).

The idea is now that eNews will announcement availability of relevant HPDPs by linking to a dedicated cosmos page. So creation and population of the latter becomes a pre-requisite to the announcement process. Pedro and Alvar will take the lead in preparing those, and ask for feedback/blessing from the product custodians.

We agreed that the most logical next items to be publicized would be the SPIRE SFC, the JScanam and Unimap HPDPs, the PACS-S red leak, and the HIFI SScan HPDPs.

#### 4. Discussion: Legacy Data Products

There was no time to discuss this.

#### 5. AOBs/next meeting

We will have our next meeting in September this year. Elena is away between Sep. 4<sup>th</sup> and 10<sup>th</sup> so it will most probably be in the week Sep. 11-15.

#### 6. New and old action items:

<b>AI</b>	<b>Description</b>	<b>Actionee</b>	<b>Due date</b>
<b>HPDP8-AI1</b>	Provide list of obsids concerned by PACS-S POC and PACS-S non-standard AOTs HPDPs	EP, KE	11-09-2017
<b>HPDP8-AI2</b>	Provide list of obsids concerned by "HIFI anomalous obsid" and assess whether QSummary entries are warranted	DT	11-09-2017
<b>HPDP8-AI3</b>	Provide list of obsids concerned by "PACS-S anomalous obsid" and assess whether QSummary entries are warranted	KE	11-09-2017
<b>HPDP8-AI4</b>	Check completeness of all README html files in the legacy repository	DT	23-07-2017
<b>HPDP8-AI5</b>	Rename the calibration tree ADP, and inform Eva about what to do with the PACS, SPIRE, and Herschel Operational Data ADPs (those	DT	10-07-2017

	won't have "Full download" options).		
<b>HPDP8-AI6</b>	Add the ADP in the data-product-overview cosmos page	EV	10-07-2017
<b>HPDP8-AI7</b>	New ticket to add column "Data Repository" in ADP interface	EV	10-07-2017
<b>HPDP8-AI8</b>	New ticket to remove "Line Catalogue" from HPDP Data Type list	EV	10-07-2017
<b>HPDP8-AI9</b>	Migrate HPDP attribute table into a GoogleDocs	DT	10-07-2017