

Herschel / Planck Project

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subject **Herschel/Planck Payload System Engineering Team – Organisation and Interfaces**

reference

Dear colleagues,

Within the next few weeks, Jean Bruston and Javier Marti Canales, both as Instrument System Engineers, and Chris Jewell, as the Herschel Payload Module Engineer, will join the Herschel/Planck Payload Team, completing it to full strength. The payload system engineering team will be headed by the still to be nominated Payload System Manager (selection within the next weeks).

Now coming close to the full complement I have defined clear responsibilities and interfaces in the payload team, i.e.

HIFI and SPIRE Instruments
 HFI and LFI Instruments
 PACS Instrument and Planck Sorption Cooler

Jean Bruston
 Javier Marti Canales
 Astrid Heske

Planck Payload Module
Herschel Payload Module (Cryostat)
Herschel and Planck Telescopes

Bernard Guillaume
Chris Jewell
Daniel de Chambure

The instrument system engineers are the ESA Project focal points for the instrument teams, as well as for the Prime Contractor (Alcatel), on all instrument aspects including the relevant interfaces to the spacecraft. The Telescope engineer is the focal point for the Prime Contractor, the Herschel telescope contractor and Planck reflectors provider on telescope system issues including the relevant interfaces. He will take charge of the aspects of instrument to telescope and payload module alignment and the overall straylight design and analysis.

This setup is in line with the ultimate responsibility of the ESA Project to provide to the Prime Contractor the scientific instruments. I would like to detail below my view of the practical impacts of the "delegation of the responsibility of the management of all technical interfaces of the payload with the spacecraft system including all margins and schedules."

The responsibility of the day-to-day control of the interfaces between the spacecraft and the instruments, both technically and from programmatic aspects, is delegated to the Prime Contractor. In line with the overall ESA responsibility this still means that all information exchange and the interface agreements reached will be copied to the ESA project and only become formal after approval by ESA. The leading document for all interface agreements are either the IID-A or IID-B (or both) and both documents have to be approved by ESA.

The IID-A (and IID-B) is also the binding document that defines the managerial interfaces with the instrument teams (chapter 10). As implementation I see the following specific sharing with the Prime Contractor:

- ESA Instrument Reviews/Instrument status reviews:
Chaired by ESA, Prime Contractor representative invited
- Technical interface meetings/general technical meetings with Prime Contractor:
Chaired by Prime Contractor with ESA participation (instrument engineer)
- Specific working groups (EMC, Alignment, AIV,...):
On a case by case basis, with the general rule that for subjects related to instrument interfaces the WG is chaired by the Prime Contractor with ESA participation and for those related to instrument development the WG is chaired by ESA, Prime Contractor representatives being invited.
- Instrument Interface Documents Part A:
Maintained and approved by Alcatel, approved by ESA, agreed by Instruments (PI)
- Instrument Interface Documents Parts B:
Maintained by Alcatel, approved by PI and ESA, agreed by Alcatel and Project Scientist.

With best regards,



T. Passvogel