

Heritage Working Group meeting

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Scope of the WG

Preserve the IACHEC corpus of knowledge, know-how and best practices for the benefit of future missions and the community at large

- provide a platform for the discussion of experiences coming from operational missions
- facilitate the usage of good practices for the management of pre- and post-flight calibration data and procedures, and the maintenance and propagation of systematic uncertainties (the latter task in strict collaboration with the "Systematic uncertainties" IACHEC Working Group)
- document the best practices in analysing high-energy astronomical data as a reference for the whole scientific community
- ensure the usage of homogeneous data analysis procedures across the IACHEC calibration and cross-calibration activities
- consolidate and disseminate the experience of operational missions on the optimal calibration sources for each specific calibration goal

from the WG charter ...

Past activities (completed, unless otherwise specified)

- Maintain list of calibration documents on the Wiki
 - To be moved to the main web page - better visibility!
- JATIS paper on in-flight calibration plans (2015)
- Document (Madsen paper) data analysis best practices
 - Statistical methods covered by Calibration Uncertainties WG
- IACHEC Source Database (**on-going**)
- IACHEC knowledge database (**not done**)



- Home • Working Group • File upload • Querying • Register for upload
- Tutorial

Possible thanks to generous support by
AHEAD - now regrettably terminated!

<http://iachecdb.iaps.inaf.it/>

- Repository of data, responses and analysis script published in or relevant to IACHEC published papers
- Review at the WG meeting
 - Add tag to query on observation data and Obs.#
 - Add tag to query on multi-instrument GTI
- Milestones:
 - J.Rodi to implement the changes ([mid-June](#))
 - Thermal SNR/Coordination WG to populate database ([mid-July](#))
- Announcement to the IACHEC community ([≥August](#))

Special session on optics cal.^{on} next year?

- 13th IACHEC: action to organise an "optics calibration WG"
- Top-bottom approach (charter, experts ...) - didn't work
- Proposal: **hold a Special Session at the 15th IACHEC**
- Topics (covering ~half a day discussion):
 - Lessons learned about on-ground, from in-flight cal.^{on}
 - Primary and secondary standards for PSF and vignetting
 - Do we need an IACHEC WG? And, if so, why?

Optics calibration special session: next steps

- Ask for agreement by the IACHEC WG Chairs
- If agreed, set-up the SOC (~3 members of the WG)
- Seek for involvement of experts beyond the IACHEC
- Good balance between presentations and discussions (60%/40% ?)
- Program to be prepared well in advance (~fall 2019)
⇒ We need to know the venue!

Reusable calibration workflows

- Interesting presentation by V.Savchenko
- Possible implementation as a pilot project at ESAC (scope to be defined)
 - MG tries to get involved to ensure that the pilot project is explicitly related to IACHEC activities (GB helps)
- Take into account his inputs in the preparation of the Astro2020 Decadal White Paper!