

# Heritage Working Group 10<sup>th</sup> IACHEC meeting summary

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# Scope of the WG

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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

# Agreements at this meeting

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1. submit in ~2 week the paper on “*A synoptic (but not comprehensive) view of in-flight calibration plans*” (JATIS)
2. extend the community expert’s survey to define an IACHEC set of “best-practices” on: a) **photoelectric absorption models and associated cross-sections**; b) **elemental abundance tables**; c) **optically thin equilibrium emission plasma codes**, and benchmark the effects (if any) of different prescriptions [a)+b)] on our calibration results
3. start populating the repository of calibration documents on the WG Wiki (*Chandra* list available, list from other projects to be solicited)
4. launch a survey through the IACHEC mailing list to build a “IACHEC knowledge database” (instrument and scientific/source expertise)
5. make sure that all WGs put in their Wiki reduced spectra, responses and analysis procedure for the published IACHEC papers