

ROADMAP FOR XMM-NEWTON POST-OPERATIONS

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What: Legacy Roadmap Document



Objective

Legacy will help **continuous exploration** of XMM-Newton data and facilitate researchers to produce **new** scientific results, many years after the Post-Ops Phase.

Pillar documents

- *XMM-Newton Post-Operations Requirements*, N. Schartel, approved by UG in 2016
- *Roadmap for XMM-Newton Post-Mission*, Users Group inputs collected by N. Schartel
- Ops docs, particular mention: docs by R. Saxton, P. Rodriguez

What: Legacy Roadmap Document



What we did

- Translating scientific requirements, use cases, in operation tasks
- Risk management that resulted in prioritizations of areas and tasks
- Addressing UG questions, i.e. about future of data analysis
(ref. C. Gabriel)

Why now: Three main challenges



- Post-Ops Phase will last 2 years only
- Budget/Resources during Post-Ops Phase will drop wrt current Ops Phase
- During Post-Miss Phase only very limited support available for S/W

The study aims to help defining a plan of activities where **Post-Ops requirements are fulfilled before Post-Mission Phase, while affecting Ops Phase activities the least possible**

(note: necessarily, current operation tasks *are* going to be affected; also, in the long-term tasks affected depend on the duration of OP, change in resources, change budget)

Priorities: Pipeline, Archive

Pipeline and Archive content will have highest priority

—> Also good fraction of workload for pipeline: SAS Team

Pipeline: Final goal

- Leave in the archive enough variety of calibrated products so that the very large majority of the astronomers will not require re-reduction from ODF neither use of XMM-specific s/w for analysis (e.g. software will have a limited lifetime: however, ref. C. Gabriel)
- Create products ready-to-use for creation of catalogue

Archive: Final goal

- Completeness & Usability: Single repository of data and products

Note: we intend to reprocess the full mission science data to generate the final archive during the post-ops phase

Outcome: Roadmap for Post-Operations



A roadmap for XMM-Newton post-operations and post-mission phases, Migliari & Ojero, 2017

- Pipeline and catalogues products
- Archive
- Calibration
- Docs and Web
- Helpdesk
- Upper Limit Tool
- Analysis

ftp://xmm.esac.esa.int/pub/xmm_usg/A_roadmap_for_XMM-Newton_Post-Operations_and_Post-Mission_phases2017.pdf