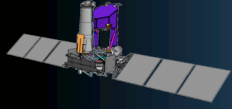


eROSITA AGN WG (Potsdam 2019)



- Aims of WG splinter:
 - Review and discuss AGN WG Work Breakdown/workflow
 - Keeping each other informed
 - New volunteers!
 - Policies and organization
- Rough Agenda
 - eFEDs work flowchart
 - Multiwavelength, including spectroscopy
 - Extension of plan to eRASS1, including additional science goals
 - Organisational Issues e.g. information sharing, project proposals, policies etc.
- 2 Joint session
 - Weds 11-12.30 with TDA and CO group about time domain
 - Weds 16.30-18.00 with Cluster WG about multi-wavelength followup





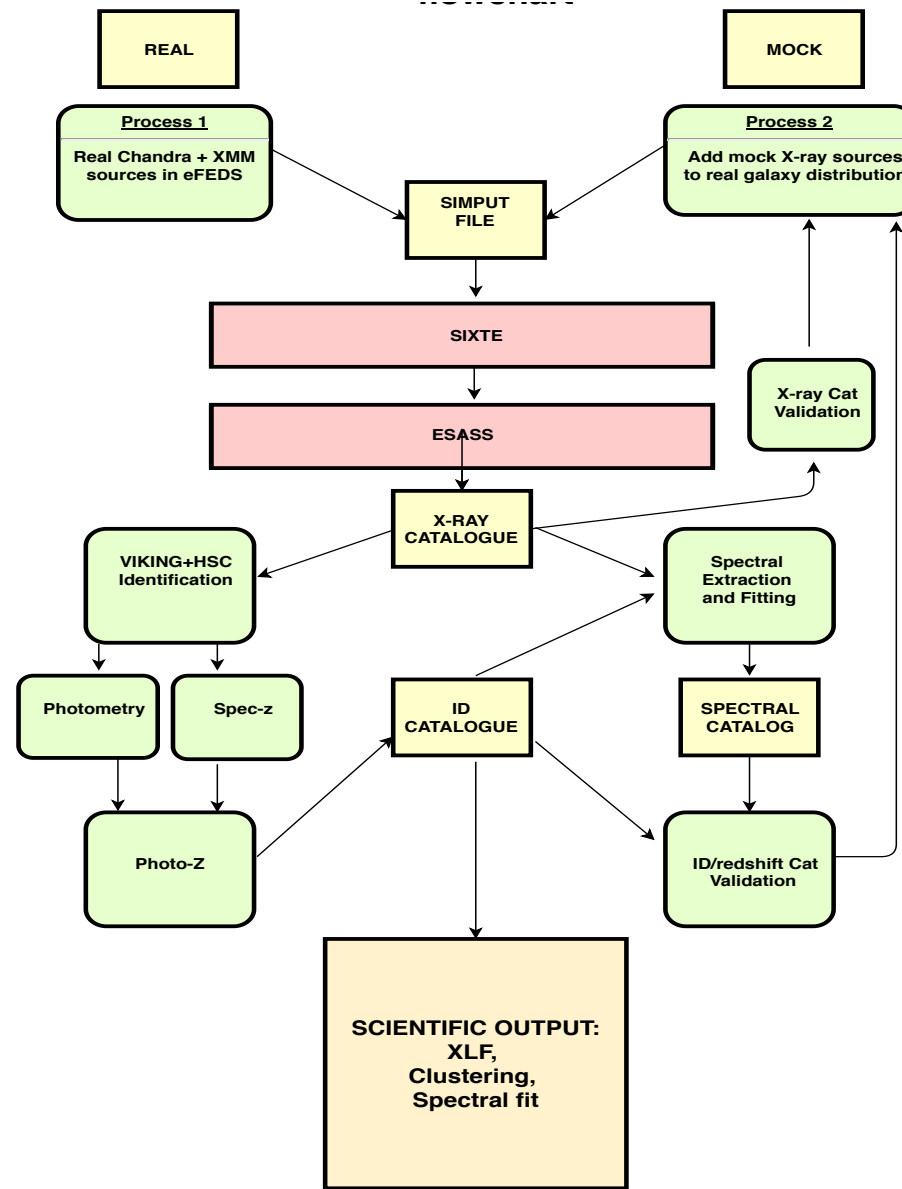
eFEDS Science Papers (Ringberg)

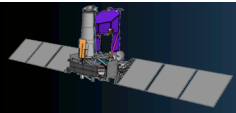


1. Data release “mandatory” papers:
 - a. eSASS X-ray catalogue (Brunner? Key Project?)
 - b. AGN catalogue – via identifications, photometry, photo-z (Salvato)
 - c. Optical spectroscopy: e.g. optical types, BH masses, Mdot (Comparat, Fresco)
 - d. X-ray luminosity function (can be combined w/Chandra) (Georgakakis, Nandra)
 - e. X-ray spectra, obscuration, reflection (+contribution to CXB?) (Baronchelli, Liu, Nandra)
2. “Optional” science papers that can (or sometime must) come later:
 - a. AGN Clustering based on Sloan spectra (Comparat, Georgakakis, Krumpe)
 - b. AGN/Galaxy cross-correlation – in GAMA $z < 0.2$ (Georgakakis, Krumpe)
 - c. Luminous obscured quasars: searching for powerful outflows (Brusa, Urrutia)
 - d. Large variables ROSAT-XMM/eROSITA (Bogensberger, Boller, Freyberg, Liu, Ponti, Rau, Malyali)
 - e. Large term-spectral variability vs. Chandra/XMM (Liu)
 - f. Variability within eFEDs scans - feasibility study for eRASS? (Bogensberger, Krumpe, Ponti)
 - g. AGN Host galaxies (del Moro)
 - h. Compton ghosts (Lamer)
 - i. Strong lenses – looking for double/multiple AGN (Lamer)
 - j. High z AGN (Nandra, Salvato – possibly new MPE student?)
 - k. Incidence of radio/X-ray AGN in low-z galaxies and/or mergers (Merloni)
- AGN, non-eFEDS:
 - a. 1H0707 observation (Boller – PI)
 - b. Cal test scan: large variables (Cal team gets priority – see also 2d., 2e.)
 - c. Cal test scan: SEP variables (Cal team gets priority – Nandra CAASTRO proposal)

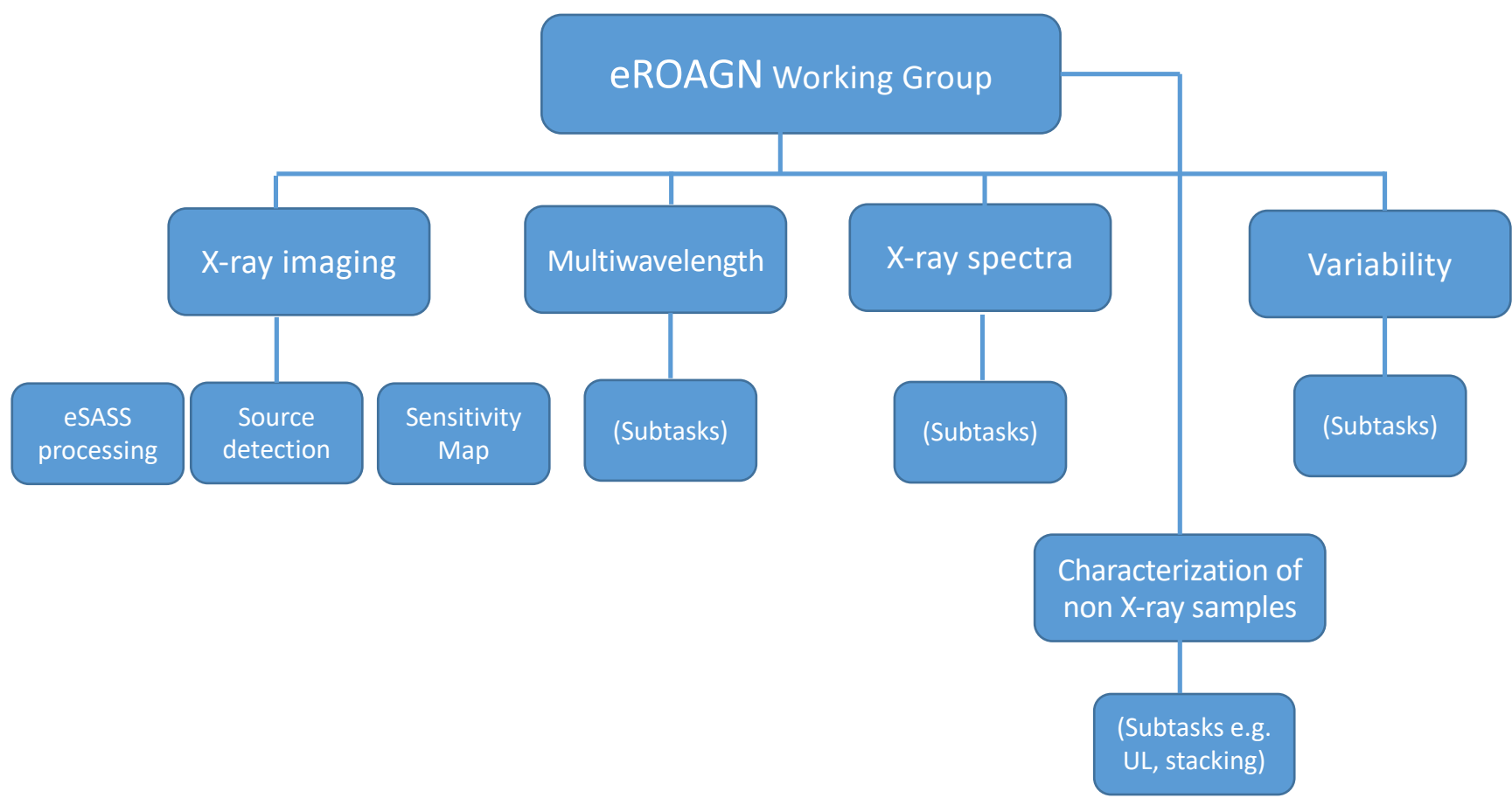


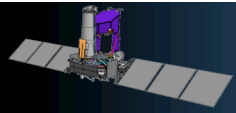
eFEDS end-to-end workflow





A Generalized AGN survey WBS

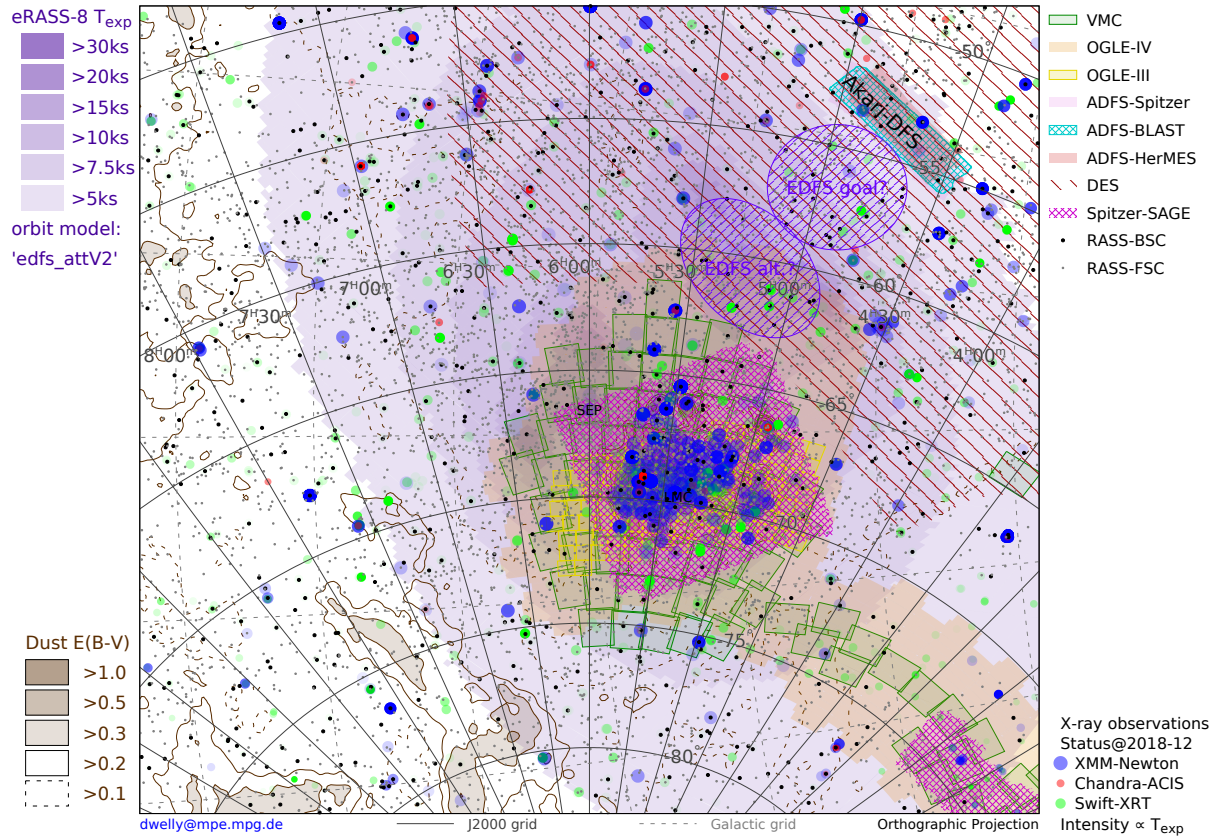




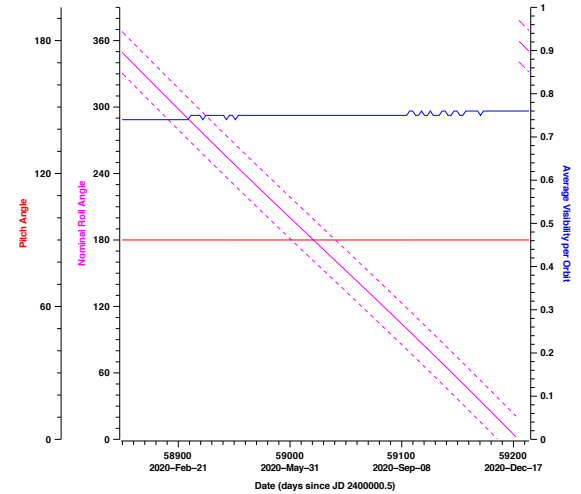
A variability survey in the SEP



The eROSITA SEP deep field - Multi-wavelength coverage

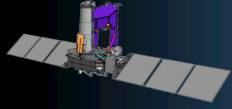


PRoVis Plot for Target: 'South Ecliptic pole'
 Coords: '06 00 00.000 -66 33 38.55'
 Time Interval: 2020/01/01-2020/12/31
 Last Pitch Restriction Update: 2013-Oct-15



Possible supporting proposals

- Chandra (March 14th!)
- Spectroscopy (AAOmega/SDSS-V)
- E-mail: knandra@mpe.mpg.de

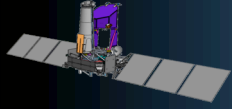


AGN WG External Collaborators



| | | | |
|---------|-----------|---------------------------|-------------------|
| Aird | James | Leicester | 2019.09.17 |
| Moss | Vanessa | ASTRON/Sydney | 2019.02.20 |
| Lusso | Elisabeta | Durham Univ. | 2018.10.20 |
| Shanks | Tom | Univ. Durham | 2018.10.01 |
| Buchner | Johannes | PUC Chile | 2018.03.08 |
| Gandhi | Poshak | University of Southampton | 2018.01.20 |
| Brescia | Massimo | INAF-Capodimonte | 2017.01.21 |





AGN WG Conclusions and Actions



- Continue work on end-to-end test for eFEDs
- Define more general WBS, w/WP leaders, and participants
- Modify eFEDs workflow for application to SPT and eRASS1
- Define a (Word?) template for AGN WG project proposals
- Issue call for PV and eRASS projects in ~1 month
- Work on and provide alter criteria to NRTA team, clarify relationship between AGN and TDA group
- Continue weekly telecons
- AGN WG f2f meeting in ~Jun/Jul considering May HSC mtg
- If you're working on AGN projects, keep eroagn informed!

