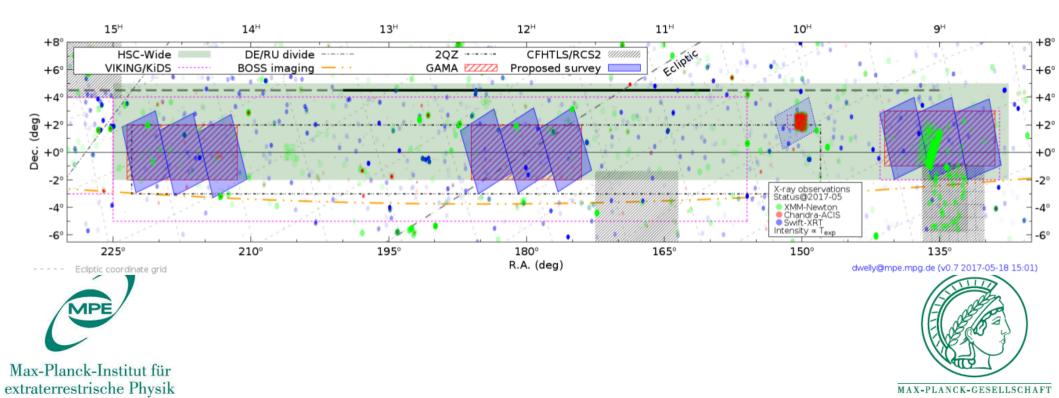
eROSITA/HSC collaboration http://hscerosita.pbworks.com

Mara Salvato Johan Comparat Oct. 22nd@Ringberg (MPE/MPG)



HSC strategy & timeline

- Grizy + NB imaging
 - Wide: 1400deg2, i~26
 - Deep: 28deg2 , i~27
 - Ultradeep: 3.5 deg2, i~28
- ~700deg2 in common
- Contains 99% of AGNs z<6

- Should complete end 2019
- Final data release in 2021

MOU eRosita-HSC

- HSC=Japan+Taiwan+Pri nceton(US)
- Working groups:
 - AGN: T. Nagao, M.
 Strauss
 - Weak lensing: M. Takada,
 T. Hamana, R.
 Mandelbaum
 - Cluster: T. Lin, M. Tanaka
 - PhotoZ: M.Tanaka

- Duration 5 years
- Intellectual property is owned by its creators. No transfer.
- Collaboration board 2x3
 members oversee **all** activities
- No automatic access to data, If access to data granted => abide to HSC collaboration rules
- Joint analyses of individual projects

MOU eRosita-HSC, joint analysis

- Joint analysis.
 - A liaison member in each collaboration
 - Clear goal and expected results (papers, products...) from start.
 - Publications announced to the relevant WG for approval
 - If started during proprietary period, must finish under MOU
 - 'Builder' status in HSC, not in eRosita

- Projects
 - Regular updates to the relevant email list
 - Teleconferences
 - Updates on the wiki
- Funding, proposal
 - Are subject to review from the MOU board

HSC-eRosita wiki page

Please subscribe here

http://hscerosita.pbworks.com



Please subscribe here:

https://lists.mpe.mpg.de/cgi-bin/mailman/listinfo/e rosita-hsc-agn

https://lists.mpe.mpg.de/cgi-bin/mailman/listinfo/er osita-hsc-clusters

Complementary public data sets

Photometry: DECaLS, VST-KIDs, VIKING, unWISE Narrow-band photometry: J-PLUS, J-PAS Spectroscopy: GAMA, SDSS, 2QZ

VISTA KIDS, VIKING

- VST KIDS survey will cover 1500 deg^2 in u,g,r,i divided in two stripes (NGP, centred on equator ; SGP, centred on Dec = -30).
- VISTA Kilo-degree Infrared Galaxy survey (VIKING) is the VISTA counterpart to the VST KIDS survey.
- Z,Y,J,H, Ks with ~ 400s exposures per band.

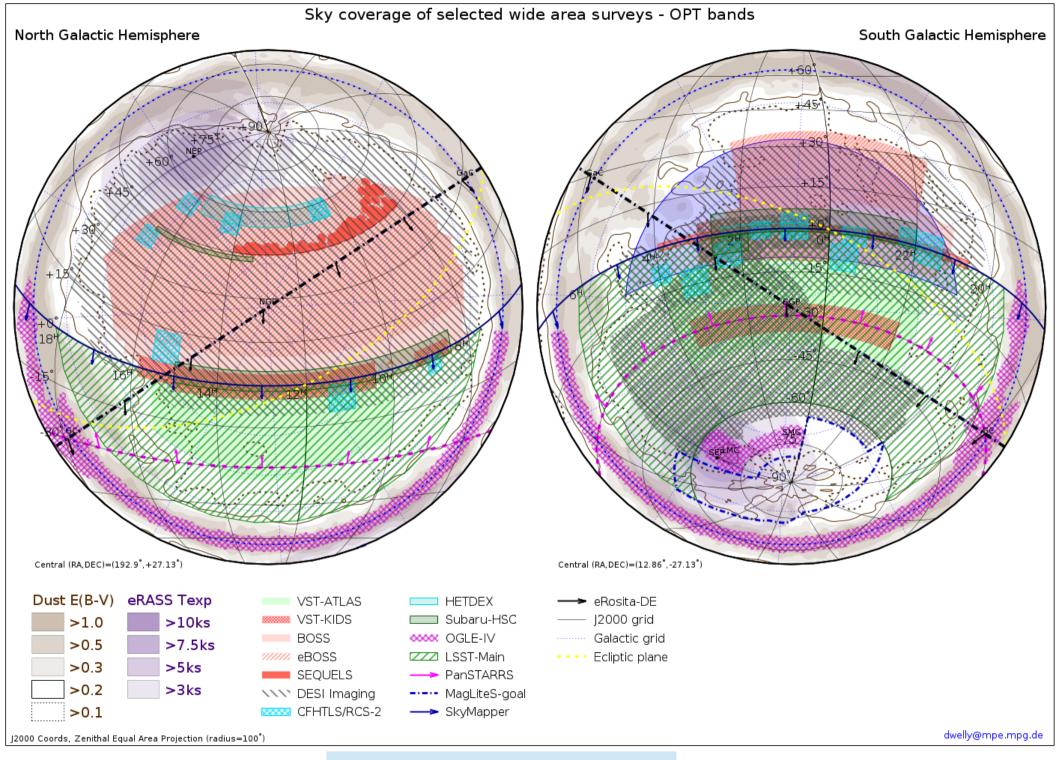
- VIKING DR2 690 deg2 in Northern Galactic Equatorial Strip that covers the GAMA09/12/14 regions,
- 10 sigma Vega median magnitude limits Z=21.4, Y=20.6, J=20.1, H=19.0, K=18.6

UnWISE NEO4, DECam-LS

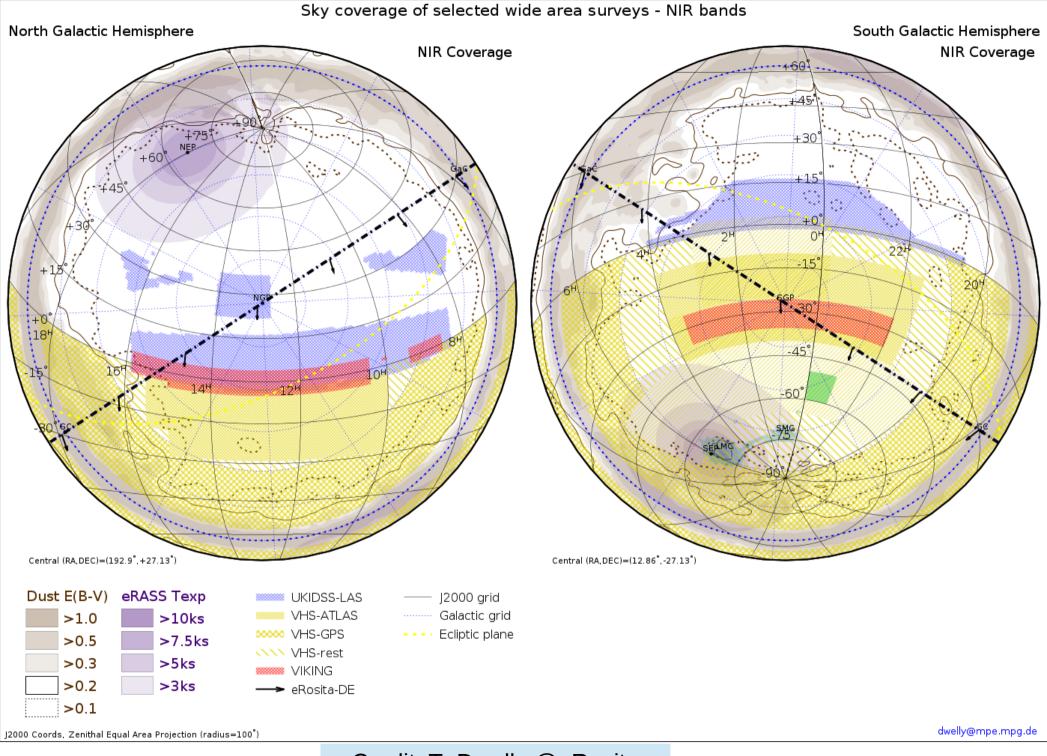
http://legacysurvey.org

Wise: 0.5 mag deeper than the official. DECam-LS, g=24.0, r=23.4, z=22.5 (5 sigma)

https://arxiv.org/abs/1804.08657 https://arxiv.org/abs/1705.06746



Credit: T. Dwelly @eRosita



Credit: T. Dwelly @eRosita

Summary

- HSC imaging is key for eRosita early phase
 - eFEDs analysis
 - Pipeline validation

- Please
 - Join mailing lists and wikipages
 - propose joint projects