

Geophysics using the Hubble Space Telescope

or Using the garbage of the HST

- ▶ We use the entire data set of DARK images taken by the HST during its >25 yr of operations to monitor the “Cosmic Rays” (CR) flux as a function of: Time & Location of the spacecraft
- ▶ Proposal approved by the STScI for the HST Cycle 24 Archival run and a test of big data analysis of the JWST data base platform.
- ▶ We got ~130.000 dark frames from 5 different instruments (7 detectors): ~15 TB of data; ~15000 hr of observation during ~ 22yr



Dark frames out
and in the South
Atlantic Magnetic
Anomaly SAMA

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