Galaxy Evolution Explorer

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Rose Bowl Parade
GALEX’s complicated status in 2012

- May 2012: NASA “lent” CalTech the satellite.
- Completed mission by low-voltage observations of bright sky regions (Mag. Clouds, Galactic bulge, additional Kepler fields, etc.)
- October: GALEX observations began in “scan” mode, funded by consortium (Caltech, Orbital Sci. Corp., a few universities) through 2012.
- MAST poised to copy over documentation site.
GALEX Deliveries in 2012

- Last of GI deliveries.
- All GR7 imaging and GR7 deliveries for post-Jan. 2011, including redeliveries of cross-mission imaging and GR6 grism spectra data.
- “GCAT” catalog (MSC, ASC, i.e. medium & all-sky) deliveries are pending. These 2 catalogs will provide unique identifiers and fluxes for nearly all GALEX sources at NUV-source positions.
Unresolved questions

- Will ops. continue past December? – dunno.
- What is the path of delivering post-NASA phase data?
  - unknown, but it will be found (…when?).
Creation of Photon List files (x,y,t storage of all photons)

• Requires extensive processing for conversion: “raw6” → (large) photon list files

• Caltech delivered raw6 files; MAST stored them (20 TB).

• Procedure to rewrite part of pipeline code in local area (C. Million). Bernie uses a small cloud of 5 MAST computers to convert the raw6.

• Results to be stored in a MAST database (~80-100 TB) for preprocessed light curves (and image movies) or customized extractions at 1 second cadence.