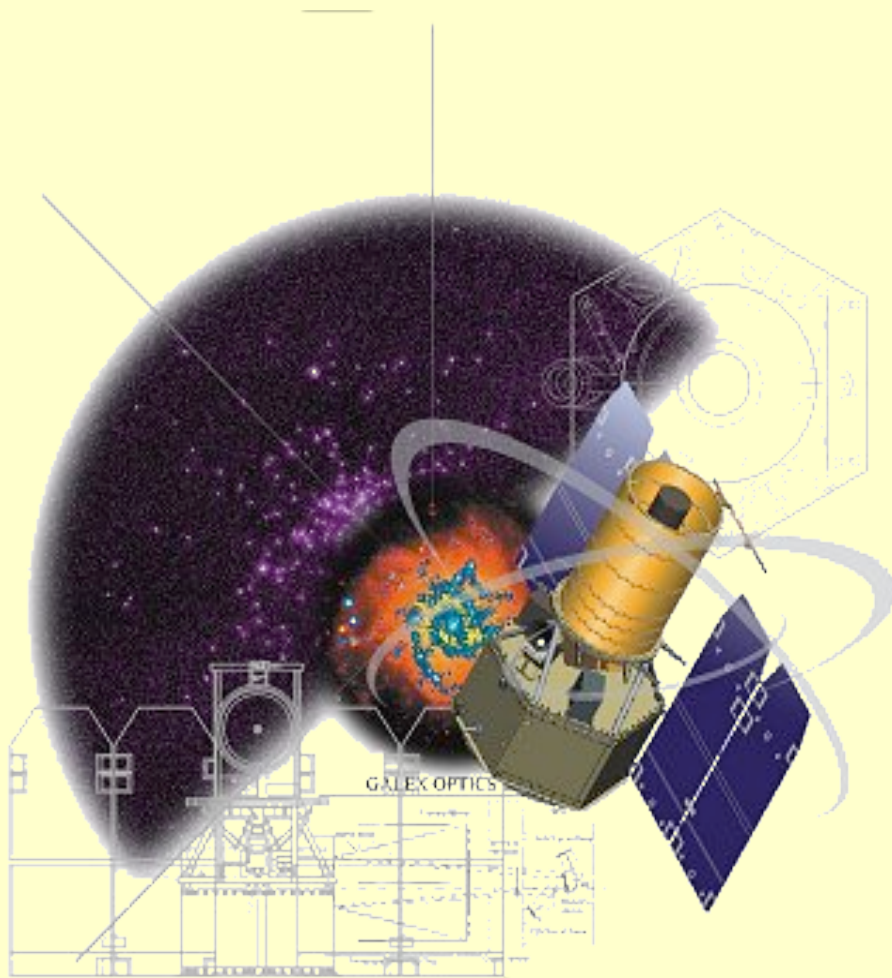




Galaxy Evolution Explorer



MAST/GALEX Team:

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- Chase Million*
- Bernie Shiao
- Myron Smith
- Shui-Ay Tseng



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.