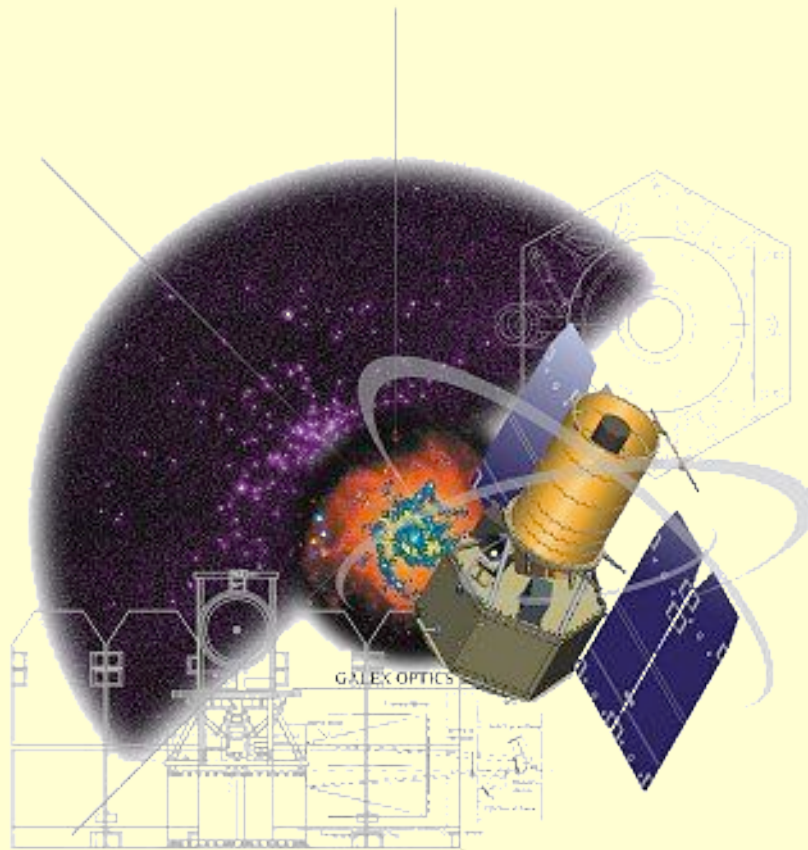# Galaxy Evolution Explorer   - MAST Team -

- ➢ *Alberto Conti
- ➢ Tony Rogers
- ➢ Bernie Shiao
- ➢ *Myron Smith
- ➢ Shui-Ay Tseng
- ➢ *A. Volpicelli

GALEX Mission (On background)

❑ **OBJECTIVE**

To map the evolution of star formation in galaxies to z ~ 2

❑ **OBSERVATION MODES**

o IMAGING, NEAR AND FAR UV (1400-1775Å, 1825-2800Å)

- ALL SKY
- MEDIUM & DEEP Fields
- Nearby Galaxies

o Grism Spectra: NUV + FUV

- Resolution ~ 100-200

✓ Program driven by:

o Science Team research, all sky surveys

o Guest Investigator program (now ~1/3)

Note: HV current anomalies now seem under control

Senior Review '06, '08 marching orders:

- Highly ranked in both reviews.

- '06: increase data deliveries!

- Funding favored through 2012.

- SenRev08 doesn't want GI program threatened, so:
  - o didn't endorse <u>new deep sky</u> survey.
  - o also skeptical of completing <u>time-domain</u> survey.

- GALEX will get only minimum level funding for '07-'09

As consequence of Senior Review '06, the Project has increased its deliveries to MAST:

- 05/06: GR2 (1.8 TB, 4 subsets) + 4 GI deliveries

- 06/07: GR3 (2.0 TB, 4 subsets) + 11 GI deliveries

- 07/08: GR4 (~11.3 TB, 17 subsets!) + 12 GI
(Automation mitigates a lengthy delivery schedule.)

A small GR5 will follow in 12/08.
A GR6 is planned next year.

Users are requesting:

❑ Cross matching with SDSS

❑ Extracted spectra for individual objects (SSAP V1.1; completed this month)

❑ New data download manager

(We're responding to all these.)

Two new tools: the Map and galexView

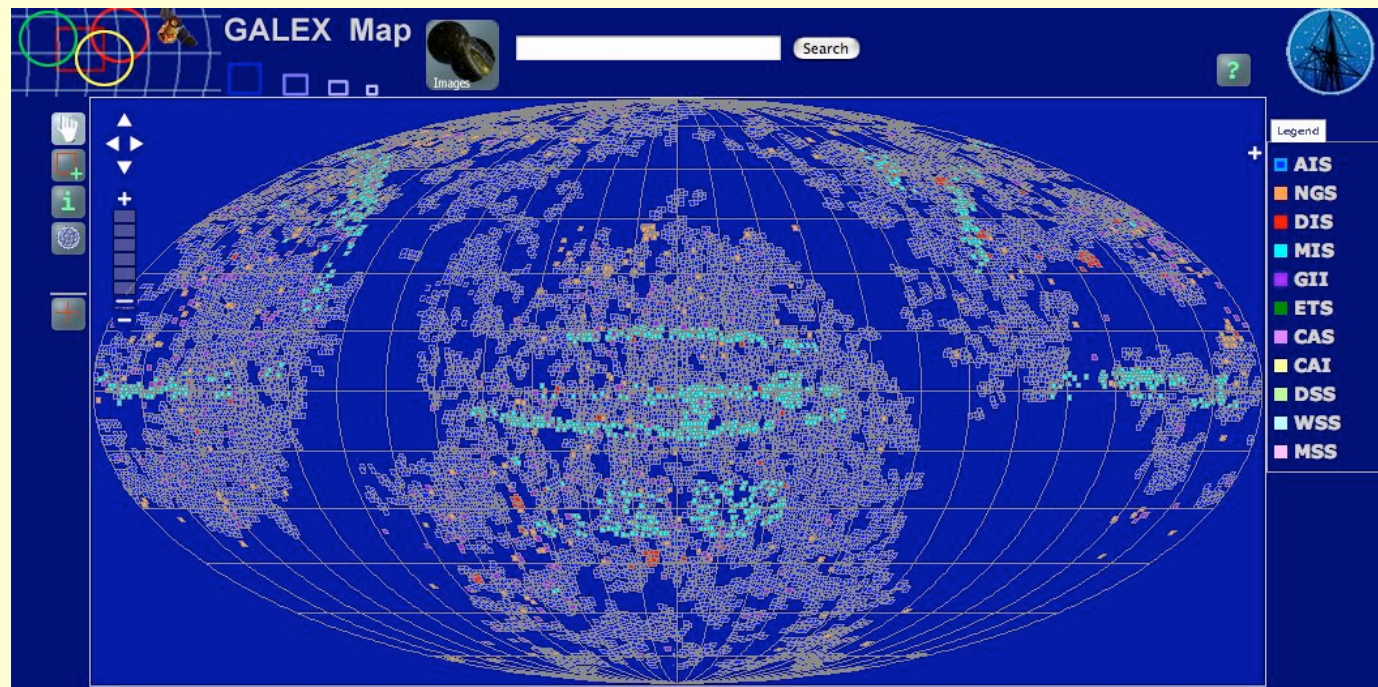"The Map": (Mapserver toolkit)
- Sky browser: coverage, lay of the land
- Entry to data downloads

galexView: (Adobe "Flex" technology)
- New "query form" on both objects or sky tiles
- Entry to data downloads

The Map: a (full) sky browser

The Map: a (full) sky browser

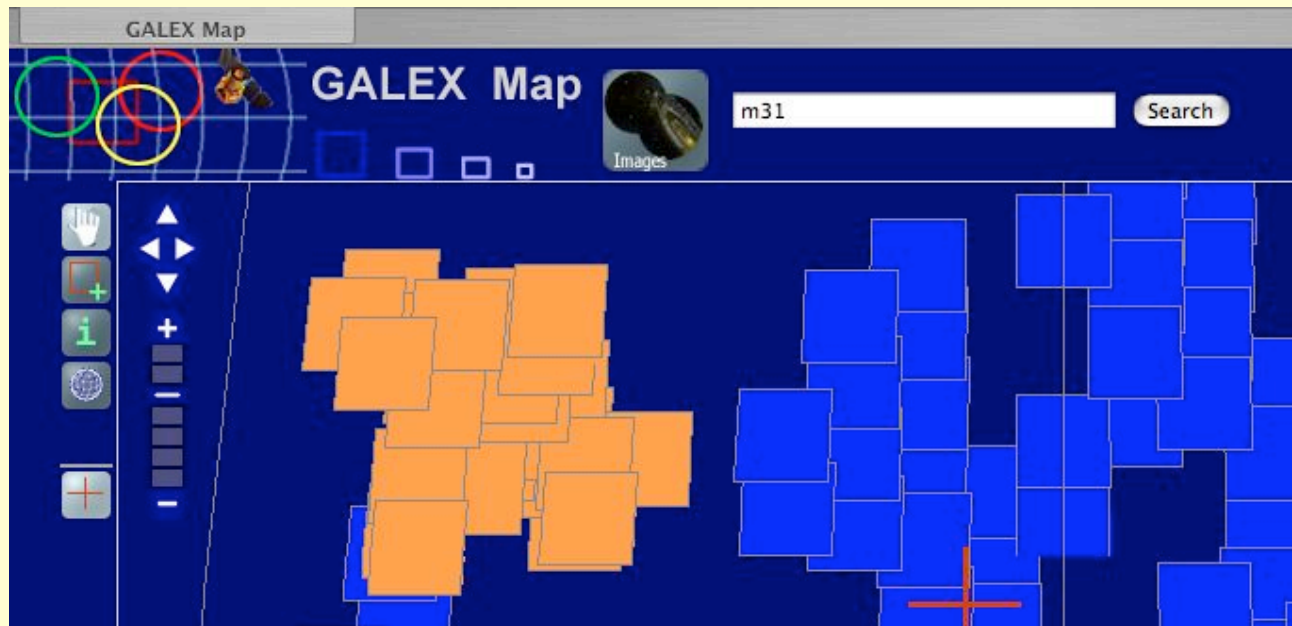# The Map: a (full) sky browser: controls

Navigation:
o Centering   o repositioning
o Panning   o data download
o Zooming (and rubber band box)

Zoomed view
of tile plane
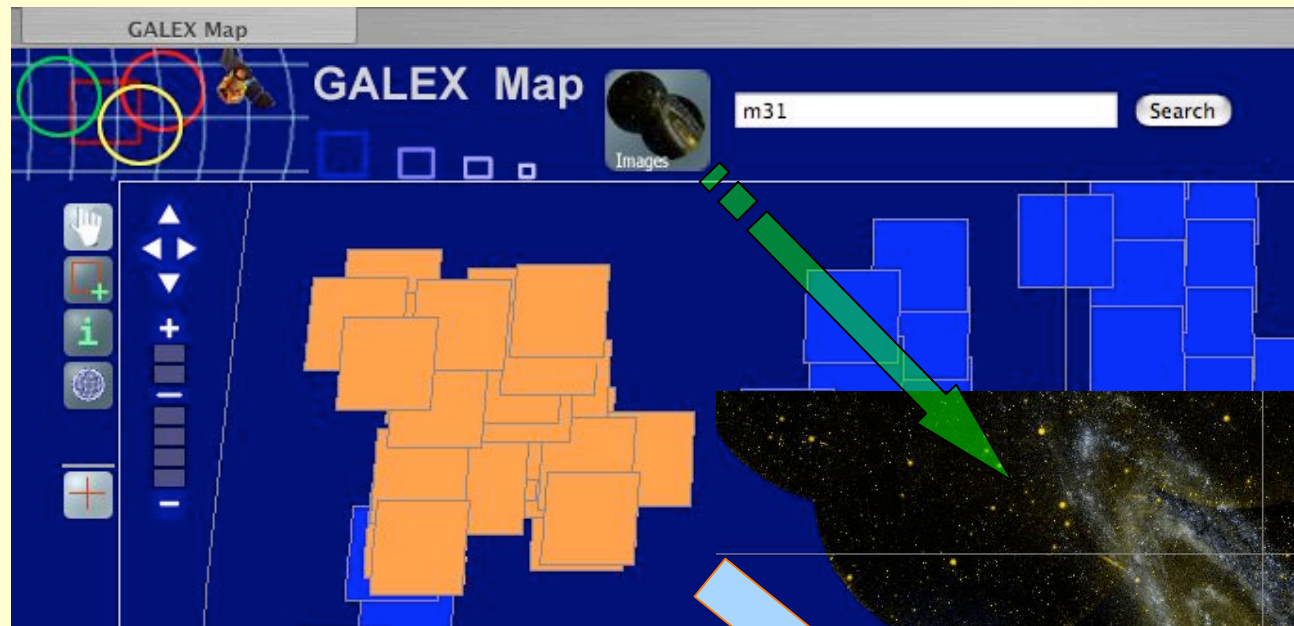
Click on image logo
to get to image plane
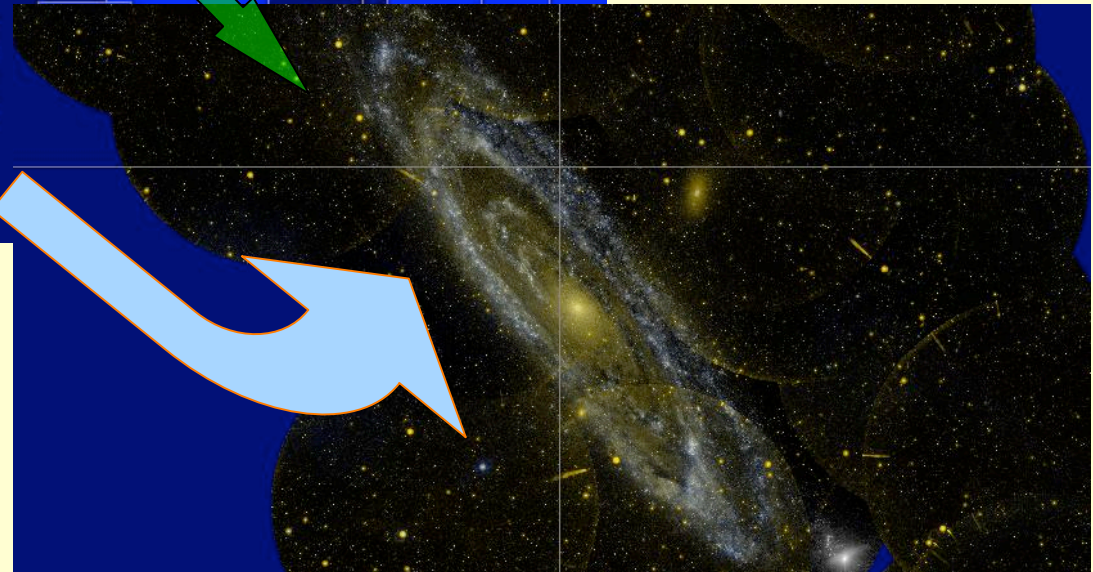
galexView

demonstration…

http://galex.stsci.edu/galexview

Goal: make "killer" applications that combine technologies

- **Image server (e.g. Map):** <u>server</u> makes mosiacs, cut-outs. Facilitates viewing of tile shapes on full sky.

- **Adobe Flex (gV):** <u>client</u> does image manipulation, draws symbols (pan/zoom, colors, contrasts). "Desktop feel" (quick).

- **Dataset Display (HLA):** <u>client</u> handles many datasets; filtering, sorting of returned tables efficiently.

> Objective is to use the best suited technology for all web components and integrate them into a seamless application. We will use them ...maybe others too. User is unaware of its underlying technology.