



GLAST E/PO Program Status

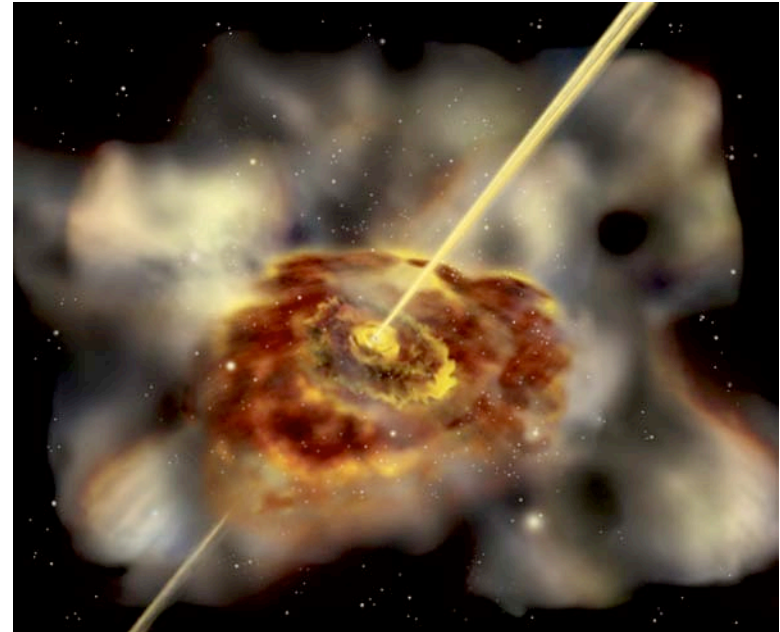
GLAST User's Committee 11/18/06

Lynn Cominsky
Sonoma State University



E/PO Work Breakdown Structure

- 1) Management
- 2) Web based Materials
 - Web Site
 - Space Mysteries
- 3) Educator Training
 - Educator Ambassadors Program
 - Conference participation
- 4) Printed materials
 - TOPS Lesson Modules
 - Posters and Educator Guides
- 5) SLAC Virtual Visitor Center
- 6) PBS documentary and planetarium show (Tom Lucas)
- 7) Global (formerly GLAST) Telescope Network
- 8) Assessment and Evaluation (WestEd and NASA)





GLAST E/PO website now NASA-style

- Completed upgrade of GLAST E/PO website
<http://glast.sonoma.edu>
- NASA-style and integrated with science site
<http://glast.gsfc.nasa.gov>
- E/PO buttons for:
 - Educators
 - Public
 - Multi-media gallery
 - Resources and Links
- **Getting ready for launch!**



GLAST



Space Mysteries



- <http://mystery.sonoma.edu>
 - Galactic Doom Space Mystery in final revision phase

- **Solar Supernova now online!**

- Watch stars evolve
- Learn the relationships between mass, luminosity and stellar lifetime
- Determine the eventual fate of our Sun



**TESTERS
WELCOME!**

GLAST



GLAST joins MySpace community

GLAST



"Can't Wait 'till
Launch!"

Male
20 years old
ROHNERT
PARK,
CALIFORNIA
United States

<http://www.myspace.com/GLAST>

GLAST now has 145
friends, and a blog

•“A Satellite with a MySpace account Is this the beginning of skynet?”

•“Thanks for the add! You are now my favorite non-biological entity. HAL is just too... full of himself, you know?”

•“of all my satellite friends, you're ranked highest ... you'll always be ahead of Swift there.

You rock my space,
GLAST!”

GLAST



Educator Ambassadors



CA BC WY KS MI IL CT MI NJ

- **GLAST supports 9 Educator Ambassadors**
 - Training July 10-14, 2006 at SSU
 - We concentrated on normalizing content of presentations so that we could better measure the impact of the program.
- **FY06: over 2200 teachers, over 1500 students and over 500 members of the public were direct participants in workshops, classroom presentations and lectures (as reported to EDCATS)**



AGN Popup Book

- Now available!
 - Tasty Active Galaxy activity
 - “How the Galaxy Got Its Jets” children’s story
 - Description of active galaxies, components, and glossary



<http://glast.sonoma.edu/teachers/popup.html>

GLAST



How the Galaxy Got Its Jets

HOW THE GALAXY GOT ITS JETS

In a time long ago and far away, space was filled with families. These were not families as we know them on Earth. They were giant families of different types of matter with distinct characteristics. Let's get acquainted with the families.

Young Hydrogen

I am Young Hydrogen. I like to make myself invisible and watch what everyone else in the galaxy is doing.



Helium

Helium is my name. I am a retired physicist. I am neutral and just like to hang out around the galaxy.



Miss Asteroid

I am Miss Asteroid. Be alert! Asteroids can be violent and smack into things.



Planetary Society

We, the Planetary Society, are the smallest of the families, but we are important. We study other families and try to make sense of their travel.



Star Sisters

We are the Star Sisters, a bright, long-lived family. Some of us are nice and cool Stars, and some of us are hot.



Comet Band

We are icy and travel fast. You may not see us very often. We are the Comet Band.



Mighty Galaxy Community

We are the Mighty Galaxy Community, a very strong, powerful group.



ACTIVE GALAXIES



Supernova Educator Unit – with XMM

WestEd review
completed

- 3 activities
 - Biography of a Supernova
 - The Crawl of the Crab
 - At the Heart of a Supernova



•Poster of Supernovae

- Images of real Supernovae
- Shows what a Supernova looks like during different stages of the explosion – timeline used for biography



Black Hole FAQ Brochure

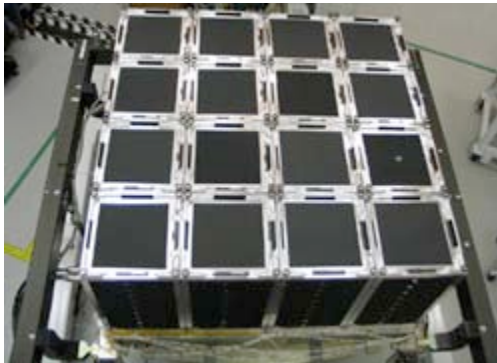
- Funded primarily with EXIST mission concept study funds, but partly subsidized by GLAST
- Accompanies planetarium show
- Future print runs will be funded by and will feature GLAST
- Spanish version now available in print.





SLAC Virtual Visitor's Center

Seeing Gamma Rays - the Large Area Telescope



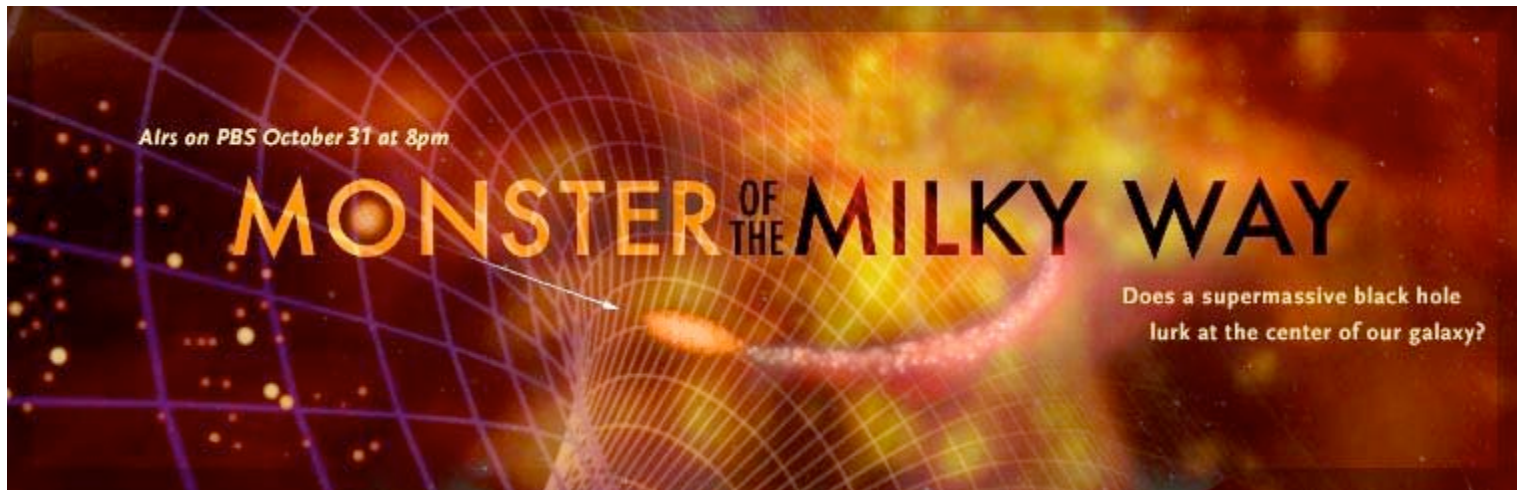
- Now installed on SLAC website
- Just reviewed by WestEd
 - A few changes to introductory text are in progress

<http://www2.slac.stanford.edu/vvc/glastlat/lat.html>



Monster of the Milky Way

- Tom Lucas productions – *Monster of the Milky Way* premiered on NOVA 10/31/06
- Features Steve Ritz on both website and show
- <http://www.pbs.org/wgbh/nova/blackhole>





Planetarium show and *teacher's workshops*

- **Black Holes: The Other Side of Infinity - Now showing:**
 - *Denver Museum of Nature & Science*
 - *Chabot Space and Science Center, Oakland California*
 - *Louisiana Art and Science Museum, Baton Rouge*
 - Bakersfield College, California
 - Heritage Planetarium, Maryville, Tennessee
 - State Museum of Harrisburg, Pennsylvania
 - *Adler Planetarium – starts in January - Chicago*
 - Oregon Museum of Science & Industry in Portland
 - Clarkstown School District, Nyack New York
 - New Mexico Museum of Natural History and Science, Albuquerque
 - Eugenides Foundation, Athens Greece
 - Thessaloniki Science Center - Thessalonki Greece
 - Dolphinarium and Planetarium - Tampere, Finland

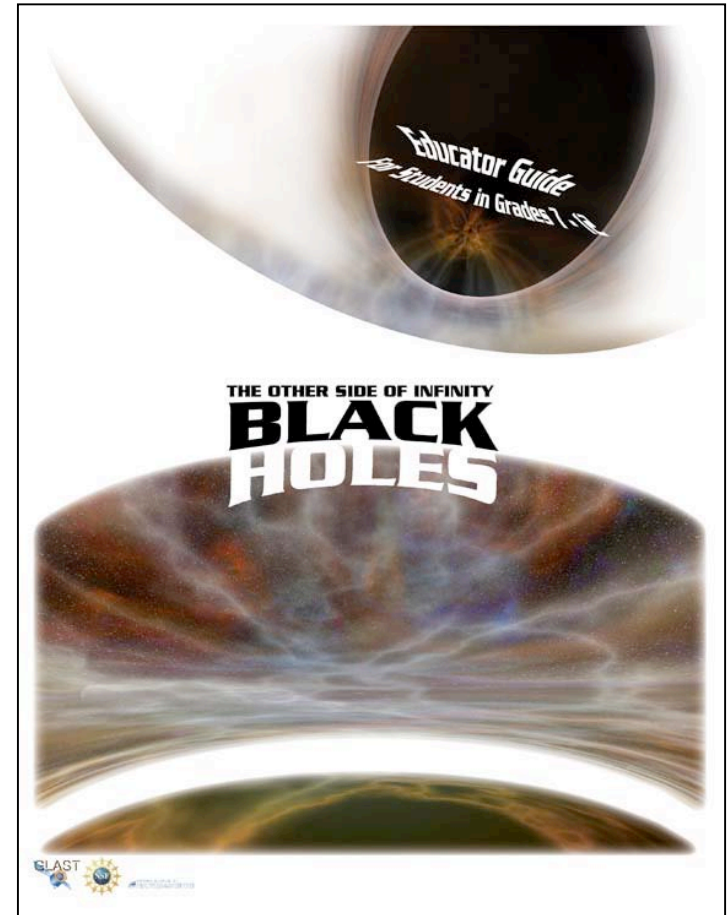
*Coming
soon to
SSU's
portable
planetarium!*



Black Holes Educator Resource Area

<http://glast.sonoma.edu/teachers/blackholes/>

- Link to NOVA site
- Link to DMNS planetarium show site
- Educator's Guide
- Black Hole FAQ brochure
- PowerPoint slides for teacher's workshop
- Other links and resources
 - Classroom activities
 - Cool BH games
 - Science web sites





Global Telescope Network 11/06

- News since 5/06:
- PROMPT telescopes at CTIO
 - 5 optical and 1 IR 0.4 m
 - Operated by SkyNet software
- Pi of the Sky – at Las Campanas – Polish collaboration

6 PROMPT
telescopes at CTIO



2 Pi of the Sky 4 Mpixel
CCD cameras at Las
Campanas



Evaluation Process

- **FY06 evaluations from WestEd:**
 - Supernova Educator's Unit
 - LAT Simulator
 - Educator Ambassador Training July 2006
 - Awaiting evaluation of Solar Supernova
- **Submitting to NASA product review on 12/1:**
 - Magnetic Globe Lithograph (part of SN Educator Unit)
 - Black Hole FAQ brochure (English and Spanish)
 - Active Galaxies Pop-up Book
 - Solar Supernova Space Mystery
 - SLAC VVC LAT Simulator



E/PO Summary

- **We are gearing up for launch**
- **Most major work items are now complete**
 - TOPS (3 modules)
 - PBS NOVA and planetarium shows
 - SLAC VVC LAT Simulator
 - AG Educator's guide and pop-up book
 - Website redesign
- **Many PR print jobs have been submitted for launch and GLAST Symposium kits**
 - Lanyards
 - Frisbees
 - GLAST magic cubes
 - Magnets
 - Lithos
 - Mission posters
 - Fact Sheets
 - Stickers
- **In progress for launch:**
 - Model
 - Folders