



GLAST

Gamma-ray Large  
Area Space  
Telescope



# GLAST

The Gamma-ray Large Area Space Telescope

**Mission Update  
LAT IFC Meeting  
Frascati, 3 September 2007**

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## Much Progress

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- **Electromagnetic Interference/Compatibility testing is complete**
  - **GBM - GPS compatibility issues resolved**
- **End-to-end timing tests with muons repeated**
- **Observatory complete (including solar arrays) and getting ready for dynamics testing.**
- **End-to-end and Ground readiness testing (see ISOC report)**
  
- **Launch date stands at 5 February 2008, but will be updated shortly.**



# Schedule


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- **Steps to launch, nominal schedule:**
  - **dynamics testing (sine vibe, followed by acoustics): September**
  - **thermal-vac prep and testing: October-December**
  - **reinstall solar array, flight battery, final tests: December/January**
  - **ship to Florida: January**
- **Top schedule issue**
  - **a higher-priority mission at General Dynamics has slipped into our scheduled time in the Thermal Vac chamber. Complicated situation, with extent of schedule conflict unclear. Constant discussions with GD, looking at several contingency paths, including NRL. Would mean at least one month delay.**



## Other news, issues

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- **GLAST Guest Investigator proposals due on September 7**
  - **some important things to note:**
    - » proposals are for NRAO and NOAO time open to all plus funding for scientists at US institutions. 
    - » proposals solicited for analysis of (1) publicly released data, (2) correlative MW observations, (3) GLAST-related theory, and (4) algorithm development.
    - » to be compliant, proposals must not involve any use of non-public LAT data in year 1.
  - see <http://glast.gsfc.nasa.gov/ssc/proposals/cycle1/>
  - **LAT collaboration is preparing more than a dozen proposals**



## NRAO and NOAO Agreements

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- **Separate agreements with NRAO and NOAO, providing time on those facilities to be awarded as part of the regular GLAST Guest Investigator program.**
- **This is great news for GLAST science!**
- **NRAO ~10% or ~450-650 hrs/yr/tel., <200 hrs/proposal**
  - **GBT, VLA, VLBA**
- **NOAO ~5% of NOAO's share of the scientific observing time on**
  - **the CTIO Blanco 4-meter, SOAR 4.1-meter, KPNO Mayall 4-meter, WIYN 3.5-meter, KPNO 2.1-meter, WIYN 0.9-meter, Gemini North, Gemini South, Hobby-Eberly, SMARTS**
- **NOAO will work to add additional access to some smaller telescopes in time for the Cycle 2 GLAST GI call for proposals. Details at [www.noao.edu/gateway/nasa/](http://www.noao.edu/gateway/nasa/) and [glast.gsfc.nasa.gov/ssc/](http://glast.gsfc.nasa.gov/ssc/).**
- **Suggestions for similar agreements with other facilities welcome.**



# Fellows Program

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- **Three Fellows will be selected for three-year terms. Call for proposals in September. Selections in early 2008, for September 2008 start. Open to scientists worldwide; GLAST Fellowship work must be done in residence at a US institution.**
- **A subgroup of the Users Group monitors and advises us about the Fellows Program**
  - **includes an external advisor, too (current Hubble Fellow).**
  - **draft announcement in final iteration, expected release next week.**



# Symposium

Quality and quantity of worldwide contributions were great:

- ~275 abstracts received
- >333 registrants

## PROCEEDINGS PUBLISHED

- ~200 papers
- 600 large-format pages
- Great help from Sandy and fellow editors
- Michelson and Meegan

Second Symposium mid-2009, when first-year LAT results are ready

Venice Swift/GLAST GRB meeting 15-20 Sept 2009

The screenshot shows a web browser window titled "The First GLAST Symposium". The address bar displays the URL "http://glast.gsfc.nasa.gov/science/symposium/2007/#". The page content includes the following text:

**First GLAST Symposium**  
5-8 February 2007  
Stanford University

The main image is a graphic of the GLAST satellite in space, with the text "GLAST" and "Exploring the High Energy Universe". The URL "http://glast.gsfc.nasa.gov" is visible in the top right corner of the image.

The right side of the page contains a list of links:

- [Symposium Announcements](#)
- [Symposium Program](#)
- [Campus Map](#)
- **Special Note:** the maximum poster dimensions for this meeting are 32" wide by 48" tall.
- [Registrant List](#)
- [Registration](#)
- [Hotel Information](#)
- **Public Lecture by Andrei Linde:** "The Origin and Fate of the Universe", 5 February
- **Planetarium Show:** "Black Holes: The Other Side of Infinity", 7 February
- Meeting Banquet: Tuesday, February 6th
- **Abstract Submission** - Deadline: Friday, December 15th (Late abstracts will be accepted until Friday, 22 December)
- **Please Note: Important Dates**
- [Proceedings Information for Authors](#)
- [Satellite Meeting Information](#)
- [Download the Symposium Poster \(PDF\), High-Res \(13 MB\)](#)
- [Signup for Announcements and Information](#)
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The browser status bar at the bottom shows "Done" and a loading time of "0.800s".



## Other News...

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- **Many GLAST Project activities, working issues, reviews, etc.**
  - **flight operations review (FOR) 8-9 November**
- **Examining reaction wheel loads as a result of some recent on-orbit anomalies**
- **Bi-weekly GLAST outreach telecon. Drafting science writers guide. Working on science visualizations and other material with Goddard TV.**
  - **first-light results press conference planned 60-90 days after launch, will include both LAT and GBM Principal Investigators and team members**
  - **Public Affairs plan in draft form. DRAFT boilerplate to appear in every press release:**
    - » *NASA Goddard Space Flight Center manages the GLAST mission. The Large Area Telescope was built with significant contributions from NASA, U.S. Department of Energy, and foreign collaborators. The Stanford Linear Accelerator Center (a DOE Office of Science national laboratory) manages the LAT with collaborators at Goddard, University of Calif., Santa Cruz, University of Washington, Ohio State University, U.S. Naval Research Laboratory, and institutions in France, Italy, Japan, and Sweden. NASA Marshall Space Flight Center, Huntsville, Ala., manages the GLAST Burst Monitor with a collaborator in Germany. General Dynamics is responsible for spacecraft and instrument integration, and Sonoma State University manages education/public outreach efforts for the LAT.*
    - » **Comments welcome**
- **Observatory naming plans**



# Questions?

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- **PS: Watch for Dawn launch 25 Sept - 15 Oct (same launch vehicle)**