
Update on Multiwavelength Needs

Dave Thompson
LAT Multiwavelength Coordinator

Presented Last Year. What is new?

GLAST LAT Multiwavelength Studies Needs and Resources

Report of the Ad Hoc Multiwavelength Observation Planning Group

Roger Blandford, Co-chair
Dave Thompson, Co-chair
Seth Digel
Greg Madejski
Roger Romani
Steve Thorsett

http://www-glast.slac.stanford.edu/GLAST_CollaborationSEP04/MW_committee_report_public.pdf

The TeV Connection

- **Identified contacts with the major Cerenkov telescope groups:**
 - **H.E.S.S. – Wagner, Puehlhofer**
 - **Magic – de Angelis**
 - **VERITAS – Krawczynski, Ong**
 - **CANGAROO – Kubo**
- **Met with VERITAS group in Nov. 2004., plus other meetings.**
- **Watched the exciting results come in from H.E.S.S.**
- **Julie McEnery has started a discussion group for LAT-TeV interests. Their Confluence Web page is**
<http://confluence.slac.stanford.edu/display/GLAMCOG/The+TeV+Connection>

Essential – Prioritized List of MW Needs

- **Why? Because any multiwavelength effort involves some resources – time, money, people, planning.**
- **A challenge for each of the LAT science groups is to help define these MW priorities.**
- **Assignment – each science group provide a prioritized list of MW needs, including justification, specific examples, and some estimate of what resources LAT will have to provide. Goal – end of September.**
- **Corollary – we all need to explore ways to tap other resources. Possibilities – NSF’s Major Research Instrumentation Program or Program for Research and Education with Small Telescopes. The Italian government has provided some MW support. Perhaps approach the Astronomy and Astrophysics Advisory Committee.**

Need #2 – Identification of MW Facilities for LAT

- **Why? MW planning depends on having contacts and agreements in place. MW efforts are needed before launch, as well as monitoring, follow-up, contemporaneous, and simultaneous observations during the mission.**
- **Assignment – each science group start collecting information about available MW facilities, using the spreadsheet model distributed last weekend. Information includes science driver, wavelength information, and both LAT and facility contact.**
- **This spreadsheet will be available to the collaboration as a resource. It will be posted at the MW Confluence Web site:**
<http://confluence.slac.stanford.edu/display/GLAMCOG/GLAST+LAT+Multiwavelength+Coordinating+Group>

Need #3 – Expand the MW Coordination Group

- **Why? MW planning cuts across specific scientific groups. All science groups need to be represented on the MW group.**
- **Assignment – each science group propose new members for the MW Coordination Group.**

Need #4 – Build on Existing MW Programs

- **Why? We do not need to re-invent MW campaigns. A few examples:**
- **Swift and the Gamma Ray Burst community make an excellent example of a working program.**
- **Our AGILE colleagues have some MW agreements in place.**
- **The Global Telescope Network and Whole Earth Blazar Telescope are helping coordinate MW efforts.**
- **The MW Coordinating Group needs to learn from and work with existing programs.**

SUMMARY

- **GLAST science will be maximized by MW studies carried out cooperatively between the instrument teams and the user community. In order to move beyond the report from last year, these steps are crucial:**
- **Construct a prioritized, science-driven list of MW needs and the costs associated with them.**
- **Identify available MW facilities and contacts to help meet the science needs.**
- **Expand the MW Coordinating Group**
- **Build on/learn from existing MW programs**