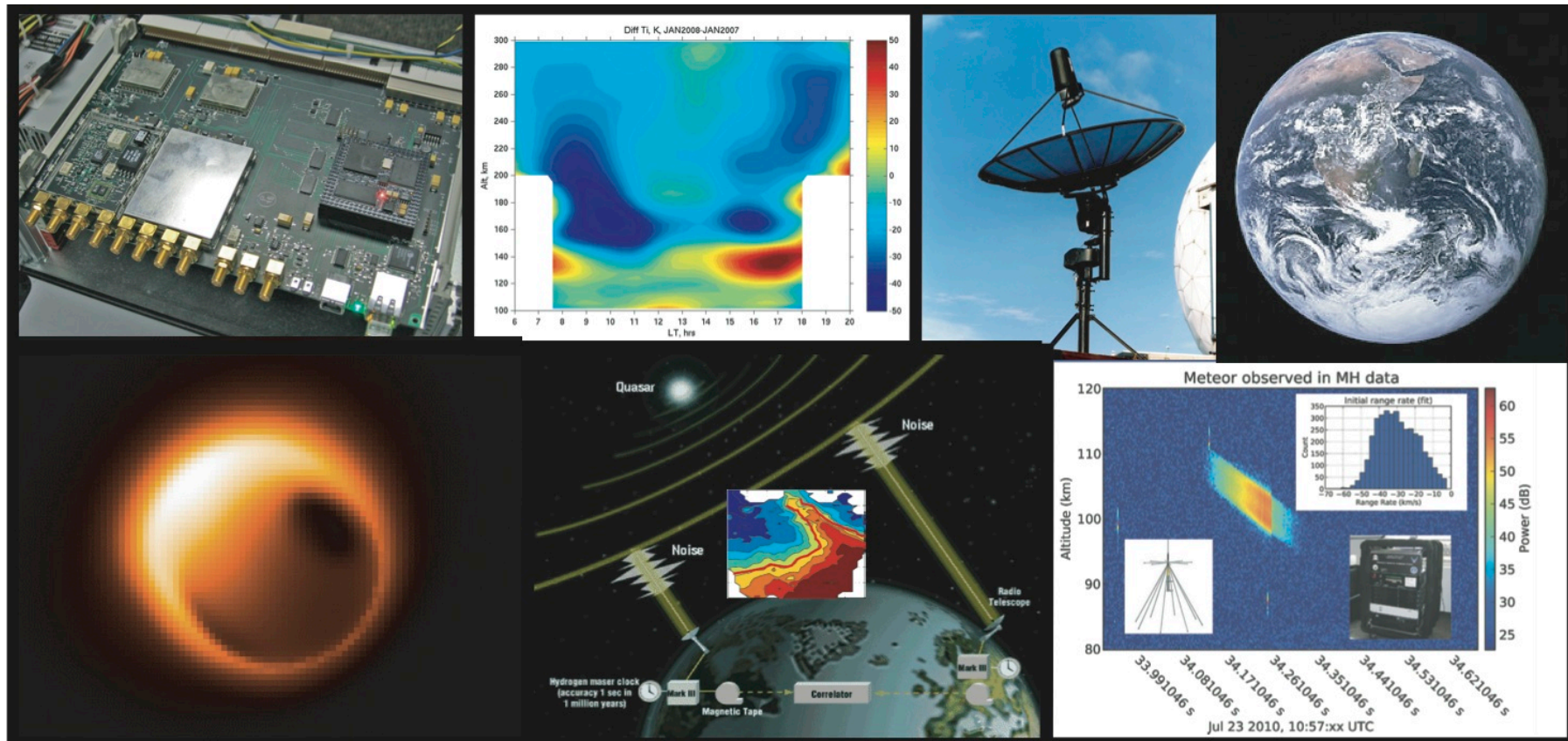


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Summer 2013

RESEARCH EXPERIENCES FOR UNDERGRADUATES
at the
MIT HAYSTACK OBSERVATORY
Westford, MA



The MIT Haystack Observatory, located 40 miles northwest of Boston, is a research center engaged in radio astronomy, geodesy, atmospheric science, and instrumentation development for radiometry, interferometry, and radar systems. The Observatory instrumentation consists of several large radio and optical telescopes and radar systems, all equipped with sophisticated digital control and data processing systems.

Haystack Observatory invites undergraduate science, engineering, and computer science students to apply for summer research positions. The program extends from June 3 to August 9, 2013. Support is provided by the National Science Foundation's Research Experiences for Undergraduates program. Women, minorities, and students with disabilities are encouraged to apply. Undergraduate students eligible for this program must not have graduated prior to the start of the summer internship in June 2013.

Proposed projects in astronomy, atmospheric sciences and engineering for summer 2013 are:

- **Climate Change in the Upper Atmosphere**
- **Observing Black Holes With the Event Horizon Telescope**
- **Ionospheric Variations at Mid-Latitude During Sudden Stratospheric Warmings**
- **Passive Radar Imaging of Meteor Trails**
- **Study of Ionospheric Total Electron Content for Broadband Geodetic VLBI Fringe Fitting Models**
- **Development of a Low Cost Spectrometer for the Small Radio Telescope (SRT), Very Small Radio Telescope (VSRT), and Ozone Spectrometer**
- **Solar Power for a Deployable Radio Array**

Information and an application are available at www.haystack.mit.edu/edu/reu/. For further information, contact:

Director/REU Program – MIT Haystack Observatory, Off Route 40, Westford, MA 01886-1299
or **Call: (781) 981-5400 – Fax: (781) 981-0590 – email: reuhaystack@haystack.mit.edu**

APPLICATION DEADLINE: 1 February 2013