

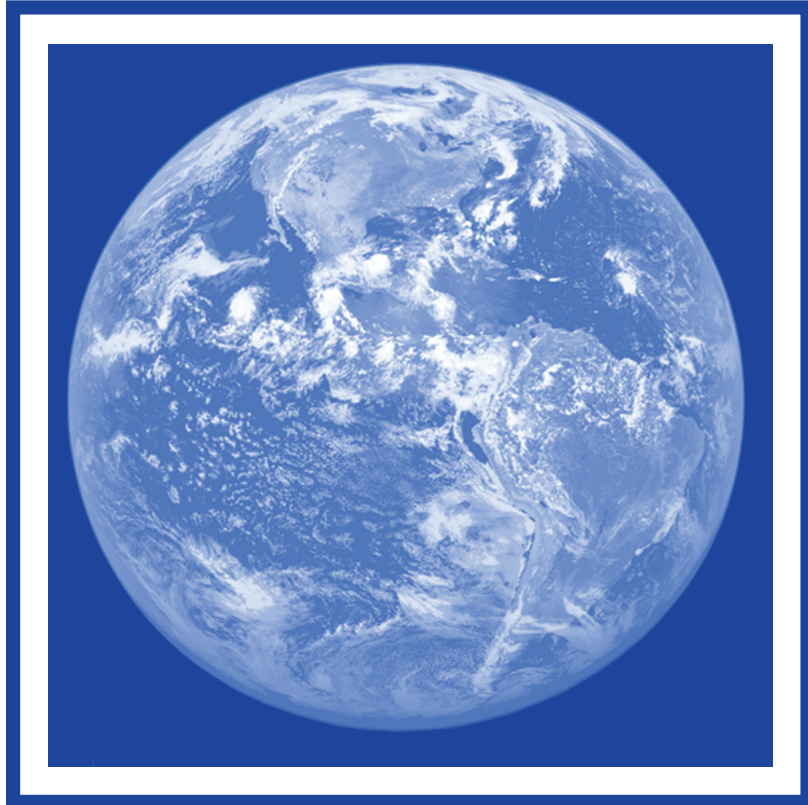


Sponsored by the Earth Sciences Division
NASA Goddard Space Flight Center (GSFC)

SUMMER INSTITUTE 2008

Summer Institute on Atmospheric, Biospheric, and Hydrospheric Sciences

June 9 – August 15, 2008



- Maximize the impact of satellite observations in climate and weather prediction.
- Observation and modeling of tropospheric parameters.
- Understanding the behavior of stratospheric ozone and the trace gases that influence it.
- Measuring and understanding the mass balance of land ice and its implications for sea level rise.
- Monitoring and understanding changes in sea ice and snow cover and their relationships with other parts of the climate system.
- Ocean biology studies, including the relationship between phytoplankton development and light levels in the sea.
- Physical oceanography investigations, including air–sea exchange processes.
- Development of remote sensing techniques to improve understanding of the hydrological cycle.
- Studies of terrestrial ecosystems and their interactions with the atmosphere using multiscale remote sensing, modeling, and advanced analytical techniques.
- Development of microwave remote sensing technology for Earth Sciences applications.

Undergraduate Internship Information

<http://neptune.gsfc.nasa.gov/summerinstitute/>

This program is designed to introduce undergraduate students majoring in all areas of the physical sciences to research opportunities in the atmospheric, biospheric, and hydrospheric sciences, both theoretical and experimental. No previous experience in these sciences is needed.

The program is directed primarily at undergraduates who are in their junior year at the time of application. All undergraduates, however, currently enrolled in a U.S. college or university, are eligible, provided they are also U.S. citizens or holders of a Green Card.

The Program

The first part of the program is a 1-week lecture series presented by prospective mentors. The lecture series will cover suggested areas of research and will be given primarily by Goddard scientists. The lecture series will be followed by nine weeks of research by the students with a GSFC scientist as a mentor. Successful applicants may be contacted via e-mail prior to their arrival by prospective mentors whose scientific interests match those of the students. (See our Web site for help in expressing your goals and interests.)

Stipends

Participants in the program receive a stipend of \$4,000, housing, and the expenses of economy travel. The program must be completed to receive the total amount of the grant. To complete the program, both an oral report and a written report of your individual research effort will be required.

Application Procedures

There is no formal application form. Submit your application in the form of a letter containing the following:

- Full name
- Address and phone number at school
- E-mail address
- Permanent address and phone number at which you can always be reached
- Social security number and citizenship
- Current grade level and GPA
- One-page statement of professional goals and interests
- Description of computer programming and laboratory experience, if any
- The names of two faculty members who know your work and have been asked to provide letters of reference
- Transcript of college courses and grades.
- Major field

The transcripts and letters of reference must be sent directly by the university and faculty members to the address below. (Applications and recommendations may be e-mailed, but not the transcripts.) Computer and programming experience is highly desired, but not required.

All application materials are due by **February 15, 2008**. Awards will be announced after March 10, 2008. Selected applicants will be notified by telephone.

All applicants will receive consideration without regard to race, color, age, national or ethnic origin, or sex.

Mail Application Letters to:

Dr. Per Gloersen, Coordinator
Summer Institute 2008
Code 610.6
NASA, Goddard Space Flight Center
Greenbelt, MD 20771
E-mail: per.gloersen@nasa.gov

<http://neptune.gsfc.nasa.gov/summerinstitute/>