http://ihy.gsfc.nasa.gov

International Heliophysical Year

IHY Newsletter Volume 1 • 1 July 2003

Welcome to IHY!

Welcome to the International Heliophysical Year effort! A broad base of scientific cooperation is necessary to ensure that 2007 is as successful as the previous international research years.

The primary goals of IHY are as follows:

- *Obtain coordinated measurements which characterize the response of the magnetosphere, the ionosphere, the lower atmosphere and Earth surface to inputs from the heliosphere to identify global processes and drivers which affect the terrestrial environment*
- *Integrate these measurements into global models, thereby identifying the primary physical mechanisms responsible for coupling in the Sun-Earth system*
- *Foster international scientific cooperation in the study of Heliophysical phenomena*
- *Study the impact of heliospheric variability on humanity and the future habitability of Earth*
- *Communicate the unique scientific results of the IHY to the interested scientific community and to the general public*
- *Stimulate scientific research and cooperation in countries which have yet to or are beginning to develop programs of heliophysical and geophysical research*

It is time to begin planning! Although electronic communication allows us to rapidly coordinate international campaigns, achieving goals #4 and #5 listed above require a significant amount of planning.

Upcoming Events: IHY Calendar

➡ *30 June - 12 July, 2003*: **2003 IUGG Meeting in Sapporo, Japan.** IHY/IGY efforts will be discussed at the business meeting, along with a coordination dinner and a talk by Joe Davila.

➡ *5 - 9 December, 2003*: **Fall 2003 AGU Meeting.** Special IHY "Town Meeting" to be held, with a possible IHY booth.

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A Program of Global Research Continuing the Tradition of Previous International Years

In 1957 a program of international research, inspired by the International Polar Years of 1882-83 and 1932-33, was organized as the International Geophysical Year (IGY) to study global phenomena of the Earth and geospace. The IGY involved about 60,000 scientists from 66 nations, working at thousands of stations, from pole to pole to obtain simultaneous, global observations on Earth and in space. There had never been anything like it before.

Nearly 50 years later, we have reached an unique point in geophysical history. We are developing the power to focus on Sun-Earth interconnected science; studies of separate regions of solar, interplanetary, and geospace are now merging into cross-disciplinary observing campaigns and interdisciplinary research efforts. This shift in the development of both scientific missions and research is reflected on an international scale.

We are entering a new era of interconnected "system" science. The IGY in 1957 was a highly successful coordinated effort to study global phenomena of the Earth and geospace. We propose to build on the success of the IGY and on recent developments in Sun-Earth systemic research through an unprecedented campaign of solar-heliophysical-terrestrial science.

The fiftieth anniversary of the International Geophysical Year will occur in 2007. An international team of scientists from a variety of institutions and research emphases are launching an historic campaign called "International Heliophysical Year" (IHY), which will focus on the problem of solar variation effects on Earth.

IHY Continues to Expand Partnerships

IHY welcomes the following programs to the team:

SCOSTEP (Scientific Committee on Solar-Terrestrial Physics) CAWSES (Climate and Weather of the Sun-Earth System) AGU (American Geophysical Union) IAGA (International Association of Geomagnetism and Aeronomy) SHINE (Solar, Heliospheric and INterplanetary Environment) ISCS (International Solar Cycle Studies) SWRI (Southwest Research Institute)

How to join the IHY effort...

IHY needs you! Visit http://ihy.gsfc.nasa.gov/registration.shtml to join the IHY email list and to register your support for IHY. Additionally, IHY is in need of scientists to participate in campaign coordination, linkage with organizations, programs and scientific initiatives, and to assist in the development of international affairs. Email ihy@ihy.gsfc.nasa.gov and be sure to mention which aspects of IHY are of interest to you.