

Sun-Earth Day: 2008 - IHY Space Weather Around the World

Sun-Earth Day 2008

Celebrating IHY (International Heliophysical Year)

http://sunearthday.nasa.gov

For Sun-Earth Day 2008, we will engage a world-wide audience in the celebration of the International Heliophysical Year (IHY). Tremendous strides have been made as our satellites and ground-based observatories attentively monitor the Sun to understand the processes which govern the Sun's influence on our solar system. We will use the popular Sun-Earth Day framework to offer a series of coordinated events to promote and highlight the Sun, its connection to the Earth and other planets, and support the spirit of international collaboration. Planned activities for **Sun-Earth Day 2008**, "Space Weather Around the World – IHY," include:

- SWIMM: a Space Weather Interactive Media Maker web-tool to allow educators and scientists to create their own multi-media resource to enhance teaching and learning at all levels.
- **Rock-n-Sol**: a musical composition by children internationally inspired by space weather and incorporating sonifications of solar data.
- Space Weather Action Centers (SWAC): for students to track a solar storm featuring podcasts of multi-cultural perspectives on IHY.
- Solar Week, featuring Solar Energy, in a week-long series of webbased activities, games and online chats with scientists for middle school students.
- Printed and Online Resources: for educators, museums, amateur astronomers, and scientists.
- Total Solar Eclipse: a live broadcast from China on August 1, 2008 highlighting investigations associated with the eclipse by the international heliophysics community.

Sun-Earth Day Themes

2001 – Having a Solar Blast/Total Solar Eclipse

2002 – Celebrating the Spring Equinox and Native American Perspectives

2003 – Live from the Aurora

2004 – The Transit of Venus

2005 – Ancient Observatories, Timeless Knowledge

2006 - Eclipse in a Different Light

2007 – IHY: Living in the Atmosphere of the Sun

2008 – IHY: Space Weather Around the World

Key Concepts for Sun-Earth Day 2008, "Space Weather Around the World - IHY."

- * We live in the atmosphere of a dynamic, magnetic star that interacts with the Earth and the planets beyond.
 - o Magnetospheres and atmospheres of the Earth and other planets respond to space weather.
 - o The Sun and its impact on the solar system can be understood through studies of universal processes that combine disciplines.
- * There is beauty, relevance, and significance in space science.
 - o The Sun, solar system, and Universe beyond have always been important to humans of all cultures.
 - o Eclipses have inspired people to observe and understand the Sun-Earth-Moon system.
 - o Human beings from diverse cultures have viewed the Sun as the source of life.
- * Human beings use technology (past, present, and future) to make discoveries about the Universe.
 - Humans who live and work in space, and use technologies we all depend on, are affected by space weather.

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