

COST296/IHY

Lucilla Alfonsi⁽¹⁾

David Altadill⁽²⁾, Pal Bencze⁽³⁾, Alain Bourdillon⁽⁴⁾, Ljiljana R. Cander⁽⁵⁾, Giorgiana De Franceschi⁽¹⁾, Benito de la Morena⁽⁶⁾, Lefteris Economou⁽⁷⁾, Miguel Herraiz⁽⁸⁾, Kirsti Kauristie⁽⁹⁾, Jan Lastovicka⁽¹⁰⁾, Silvia Pau⁽¹⁾, Gracia Rodriguez⁽⁸⁾, Richard Stamper⁽⁵⁾, Iwona Stanislawska⁽¹¹⁾

⁽¹⁾Istituto Nazionale di Geofisica e Vulcanologia - Rome, Italy

⁽²⁾ Observatorio del Ebro - Spain

⁽³⁾ Geodetic and Geophysical Institute - Hungarian Academy of Sciences - Hungary

⁽⁴⁾ Institut d'Electronic et de Telecommunications de Rennes - France

⁽⁵⁾ Rutherford Appleton Laboratory, Council for the Central Laboratory of the Research Councils - UK

⁽⁶⁾ Instituto Nacional de Tecnica Aeroespacial - Spain

⁽⁷⁾ Intercollege Limassol Campus - Cyprus

⁽⁸⁾ Universidad Complutense Madrid - Spain

⁽⁹⁾ Finnish Meteorological Institute - Finland

⁽¹⁰⁾ Institute of Atmospheric Physics – Czech Republic

⁽¹¹⁾ Space Research Center - Poland

Helsinki, 5 - 9 February 2007



2007

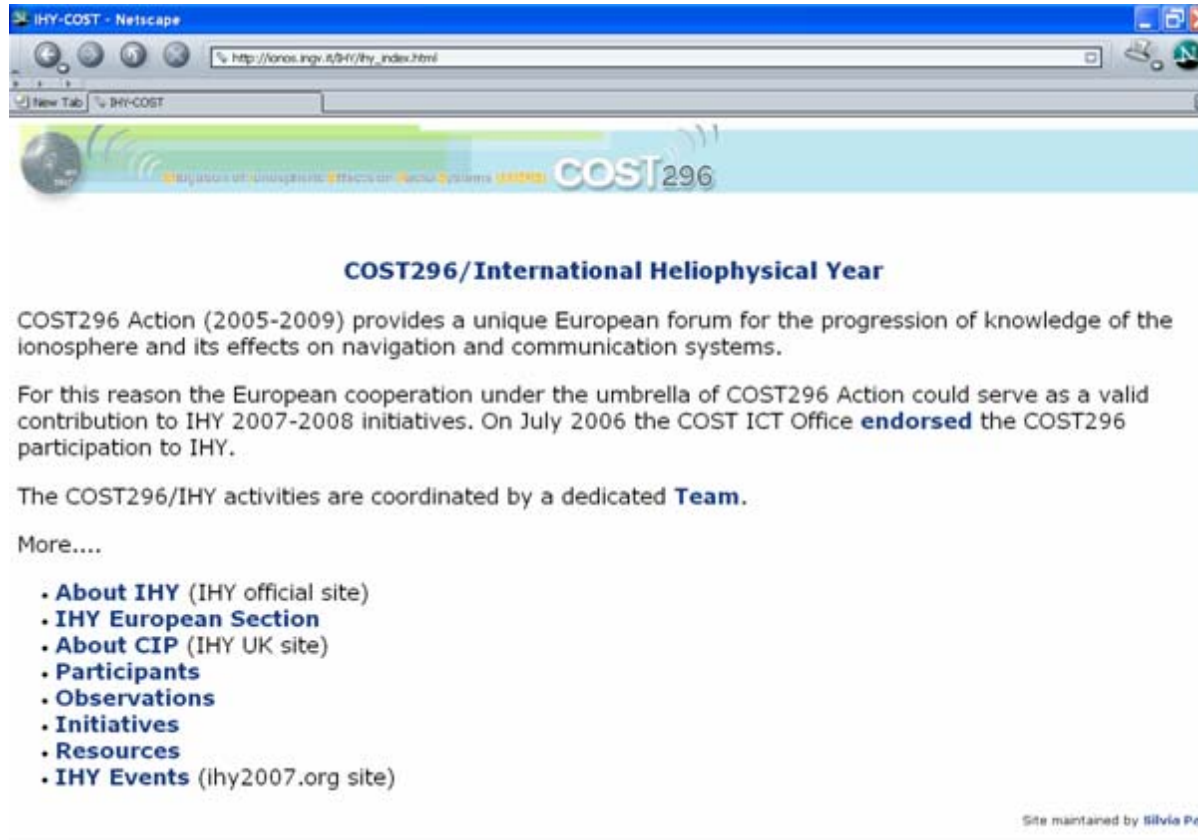
SUMMARY

- **COST296/IHY web site structure**
- **Proposal of COST296/IHY Coordinated Investigation Program (CIP)**
- **Participations to Outreaches initiatives**
- **Participation to International Meetings**
- **Next steps**



The COST296/IHY web site structure is hosted at INGV and it is reachable also through the menu of the COST296 official site.

http://ionos.ingv.it/IHY/ihy_index.html



IHY-COST - Netscape
http://ionos.ingv.it/IHY/ihy_index.html

Mitigation of Ionospheric Effects on Radio Systems (MIERS) COST296

COST296/International Heliophysical Year

COST296 Action (2005-2009) provides a unique European forum for the progression of knowledge of the ionosphere and its effects on navigation and communication systems.

For this reason the European cooperation under the umbrella of COST296 Action could serve as a valid contribution to IHY 2007-2008 initiatives. On July 2006 the COST ICT Office **endorsed** the COST296 participation to IHY.

The COST296/IHY activities are coordinated by a dedicated **Team**.

More....

- **About IHY** (IHY official site)
- **IHY European Section**
- **About CIP** (IHY UK site)
- **Participants**
- **Observations**
- **Initiatives**
- **Resources**
- **IHY Events** (ihy2007.org site)

Site maintained by Silvia Pau

IGY
1957

IHY
2007

COST296/IHY Coordinated Investigation Program (CIP) 1/2

CIP	
Programme title	COST296/IHY
Lead Proposer	Giorgiana De Franceschi
Lead Proposer e-mail	defranceschi@ingv.it
Contact details	Tel. +39 06 51860307; Fax: +39 06 51860397
Other proposers	COST296/IHY Coordination Team Members http://ionos.ingv.it/IHY/ihy_index.html
Discipline	Ionized atmospheres
Scientific synopsis	<p>Since the 90's the COST Actions relating to ionospheric physics are particularly useful in creating a critical mass of researchers to increase the knowledge of the ionosphere and its effects on navigation and communication systems. Nowadays COST296 Action (2005-2009) (www.COST296.rl.ac.uk) provides a unique European forum for the progression of such matters. In the IHY frame the idea is to maintain the necessary European cooperation for a multi instrument monitoring of the middle-upper atmosphere and improving scientific joint efforts to investigate on the interconnection between low, mid and high latitude ionosphere. This proposal hopes for an integration of other interested middle-upper atmosphere scientific groups.</p>

COST296/IHY Coordinated Investigation Program (CIP) 2/2

Description of Programme	<p>The European cooperation under the umbrella of COST296 Action could serve as a valid support to IHY 2007 initiatives throughout:</p> <p>Development and maintenance of COST296/IHY Web site to exchange general information, expertise, know-how, links to the data archive and databases produced by this Action among the IHY community.</p> <p>Coordination of multi-instruments observation campaigns in synergy with the I*Y community. The data archive created during the observation periods and/or severe heliogeophysical conditions will also form a baseline collection against which later forecasting efforts may be compared.</p> <p>Stimulate joint investigations on interconnection between low, middle and high latitude ionosphere and plasmasphere as disturbances of the plasma distribution at low-latitude can also affect the mid and high latitude ionosphere in some large storm events.</p>
Summary of resources	<p>Digital Ionosonde Network, GPS Scintillation and TEC monitoring, magnetometers and all-sky cameras, riometer network. Other type of instruments for different monitoring purposes (SID, Schumann resonance, whistlers,...) are also available as well as access to data and products. Details can be found at http://ionos.ingv.it/IHY/ihy_index.html</p>
Wider programmes	<p>IPY, ICESTAR-IHY, CAUSES.</p>
Educational opportunities	<p>The proposal intend to contribute to outreach initiatives on the base of the experience achieved in the frame of national events and exhibitions supported by some Institutions participating in COST296/IHY. We will organize public conferences to be hosted in the COST296/IHY participating Institutes and a competition open to the schools to prepare a calendar for 2007-2008 on the base of the best drawings selected by a jury. The calendar would be distributed to the participating schools with a prize to the winners.</p>
Developing Nations	<p>Scientific cooperations are in progress between COST296 community and Vietnam (Institute of Geophysics,NCST).</p>
Additional comments	
Website	<p>http://ionos.ingv.it/IHY/ihy_index.html</p>

➤ **Participations to Outreaches initiatives:**

- March 2007 (call for drawings and calendar)

- Open Doors Day at IHY Observatories and Museums

This is a special activity coordinated by IHY-EUROPE where institutions, observatories, and educational sites open their doors to the public and host special presentations on the heliophysical environment. *Stay tuned for details.*

IHY Contact: [Carine BRIAND](#)

➤ **Participation to International Meetings 2007**

- European Geosciences Union, General Assembly, Vienna, Austria 15 - 20 April 2007
- Second European General Assembly of IHY, Torino (Italy) June 18 - 22, 2007
- IUGG XXIV Assembly", Perugia (Italy) July 2 - 13, 2007



Realization of the European COST296 - IHY calendar

During the week 19 - 25 March 2007 will be launched the competition for the European kid drawings on COST296 - IHY. The best drawings will be published on the European Calendar 2007-2008.

A poster to promote the event will be prepared along with presentations and/or other materials to be distributed to the teachers and students to inspire drawings.

National committees will be constituted to select 2 drawings per country.

A common day (September 2007) will be dedicated to the presentation of the Calendar and proclamation of winners. We strongly believe this initiative could serve as a good promoting tool for COST296 activities all over Europe. Moreover the calendar could represent an opportunity of cohesion among the youngest European generation!



Next steps

- Arrangement of the public conferences and launch for Kids Drawings for the Calendar (March 2007).
- Exploration of possible funding sources by all the CT. Single national initiatives are suggested. We ask extraordinary funds to MC to support this activity.
- Circulation of “calls for contributions” to participate to the international meetings among the CT members. Contribution of COST296/IHY will then be prepared by the CT members and will be given by volunteers that will attend those meetings.
- Adhesion to the “Open doors” initiative: the CT will discuss by e-mail the actions to be done.

