

# IHY activities in the Balkan-Black sea-Caspian sea area

Ashot Chilingarian – Armenia

Elchin Babayev – Azerbaijan

Katya Georgieva – Bulgaria

Dragan Roša and Bojan Vršnak – Croatia

Marina Gigolashvili – Georgia

Alexander Nindos and Xenophon Mousas – Greece

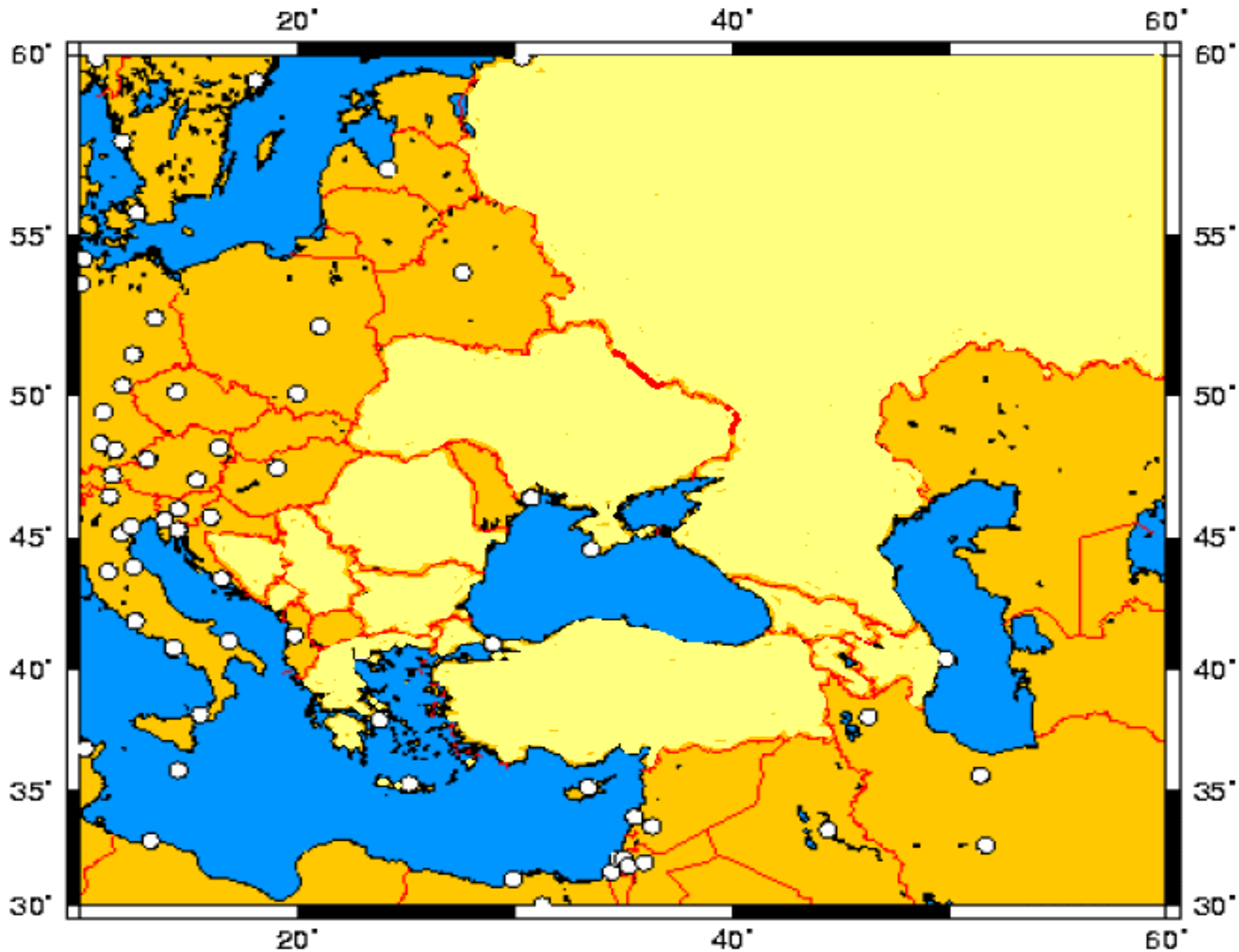
Georgeta Maris and Christiana Dumitrache - Romania

Alexander Stepanov and Vladimir Obridko – Russia

Istvan Vince – Serbia

Atila Özguc – Turkey

Oleg Lytvynenko - Ukraine



# Experience in the member countries

- **Solar physics** – Azerbaijan, Croatia, Georgia, Greece, Romania, Russia, Serbia, Turkey, Ukraine
- **Cosmic rays** – Armenia, Russia
- **Solar wind-magnetosphere-ionosphere** – Bulgaria, Georgia, Greece, Romania, Russia, Serbia, Ukraine
- **Sun-climate** – Bulgaria, Georgia, Romania, Russia
- **Solar-seismic** – Bulgaria, Russia, Ukraine
- **Solar influences on the biosphere and human health** – Azerbaijan, Bulgaria, Georgia, Russia

# The beginning – the first meeting

June 2005 – Sozopol, Bulgaria

Decisions

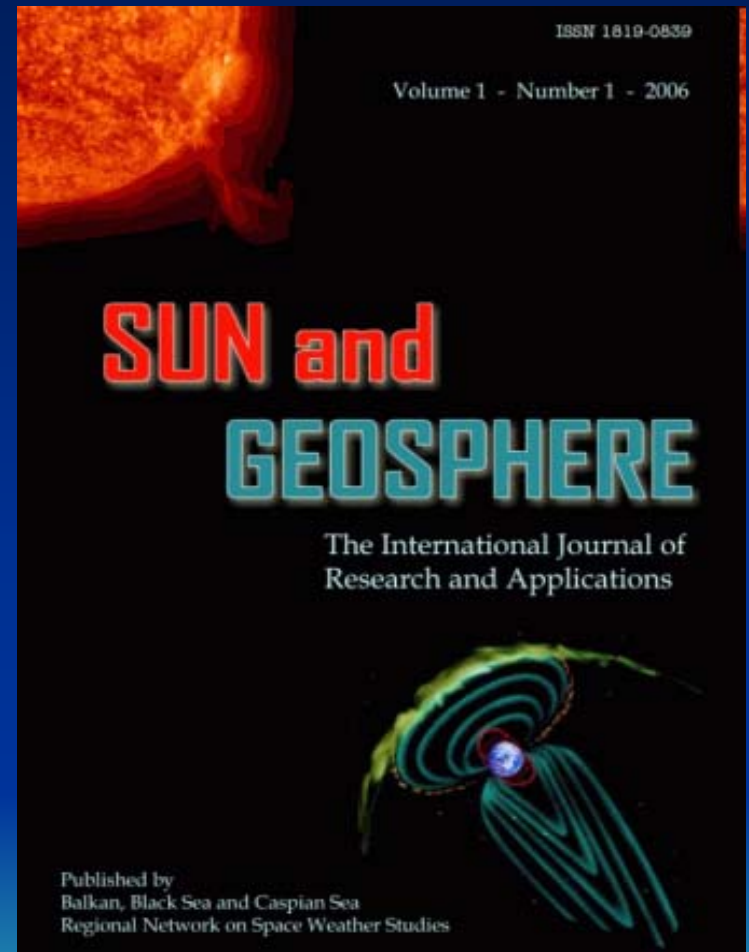


to create a “**Balkan-Black Sea-Caspian Sea Regional Network on Space Weather Studies**”

- to manage a special web site - [www.stil.bas.bg/IHY](http://www.stil.bas.bg/IHY).
- to hold **annual meetings** (using when appropriate the opportunities of big scientific events)
- to publish an International refereed scientific journal "**Sun and Geosphere**" with international editorial board

<http://www.stil.bas.bg/IHY/>

- ISSN: 1819 – 0839



# The second annual meeting

March-April 2006 - Antalya, Turkey



<http://www.ihy2007.boun.edu.tr/index.htm>

## Decisions

- **Bilateral and multilateral collaborations**  
(Armenia-Greece, Bulgaria-Serbia, Bulgaria-Romania, Armenia-Croatia, Ukraine-Georgia, Azerbaijan-Turkey-Bulgaria)
- **CIP proposals**
- **Joint research project for IHY**

# Joint research project:

## Solar influences on climate and life on the Earth

- Long-term and sunspot cycle variations in solar activity;
- Mechanisms of solar variability, onset and evolution of solar recurrent and sporadic events, and the associated interplanetary phenomena;
- Solar forcing on the Earth's atmosphere, geomagnetic field, seismicity, and life



# Coordinated observations

- 1) *Solar observations*
  - *Azerbaijan, Croatia, Georgia, Greece, Romania, Serbia, Turkey, Ukraine*
- 2) *Cosmic rays*
  - *Armenia, Bulgaria, Croatia*
- 3) *Magnetospheric and ionospheric measurements*
  - *Bulgaria, Greece, Romania, Russia, Serbia, Ukraine*
- 4) *Atmospheric measurements*
  - *Bulgaria, Georgia, Ukraine*
- 5) *Geomagnetic activity*
  - *Azerbaijan, Bulgaria, Georgia, Greece, Romania, Russia, Serbia, Ukraina*
- 6) *Human physiological state*
  - *Azerbaijan, Bulgaria, Georgia, Russia*



# Other participating countries

- Belgium
- France
- Germany
  - Italy
- Poland
- Spain

A total of 17 countries



# The third annual meeting

September 2007 – Baku, Azerbaijan



<http://www.shao.az/IHY>

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