



ISWI activities in Azerbaijan (national coordinator: Elchin Babayev)



Main organizations dealing with Astronomical and Space Researches/ Applications and Space Weather studies in Azerbaijan:

- Baku State University;
- Shamakhy Astrophysical Observatory (ShAO), Azerbaijan National Academy of Sciences;
- Batabat Astrophysical Observatory;
- AzerCosmos OJSC;
- National Aviation Academy;
- National Aero-Space Agency;
- Research Institutes of the Azerbaijan National Academy of Sciences - Physics, etc.
- Some departments of different universities, etc.

Among modern problems of astronomy and astrophysics we conduct studies on:

- Solar physics (theoretical and experimental);
- Helioseismology (theoretical), global solar oscillations;
- Solar-terrestrial physics – interplanetary magnetic field, solar wind, large-scale magnetic fields on the Sun, etc.;
- Space weather effects' studies.

Space Weather Effects' Studies particularly cover some tasks of international programmes and projects, like:

- Impact on technologies (space-borne and on Earth);
- Public health problems;
- Environmental problems.

SW studies mainly were/are conducted in the:

- Department of Cosmic Plasma and Heliogeophysical Problems, Shamakhy Astrophysical Observatory;
- Department of Astrophysics, Baku State University;
- Other organizations;
- Scientists and specialists from different fields of science and technology – astrophysicists, geophysicists, physiologists, engineers, etc.;
- Contacts, collaboration at regional as well as at international levels.

Activities:

- monitoring and analysis;
- theoretical and experimental studies of space weather effects;
- application of obtained results (industry, public health and security, etc.);
- preparation of young specialists (Ph.D. students, lectures);
- public awareness (mass-media, TV, radio, newspapers, web site).

BAKU STATE UNIVERSITY



SHAMAKHY ASTROPHYSICAL OBSERVATORY



BATABAT ASTROPHYSICAL OBSERVATORY



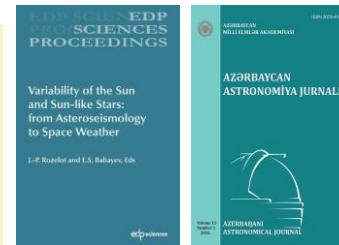
SPACE WEATHER CENTER



Potential influence of space weather factors are studied in the following research areas:

- space weather influence on technical and engineering systems (electric power supply grids, oil production activity, functioning of long pipelines, etc.);
- space weather effects on human life and health (bioelectrical activity of human brain and its functional state, cardiovascular parameters, diseases, biologically active points of human body, traffic accidents, virus-epidemic diseases, influenza, etc.) and ecological systems (Caspian Sea level variations, climate changes, etc.);
- Distant investigation of propagation of very low frequency (VLF) electromagnetic waves in the Earth's ionosphere;
- Investigation of solar wind magnetic field distribution near the Earth;
- Study of relationship between the contrast of coronal holes on the Sun and parameters of the solar wind streams;
- other tasks, such as solar activity and comet's brightness, etc.

SCIENTIFIC PUBLICATIONS



REGULAR SEMINARS



AWESOME VLF RECEIVER



PUBLIC AWARENESS EVENTS



SUPERSID RECEIVER

RECENT INTERNATIONAL SCIENTIFIC EVENTS

