

**UN/ESA/NASA/JAXA/BAS Workshop on the
International Heliophysical Year 2007 and Basic Space Science
"First Results from the International Heliophysical Year 2007"
2-6 June 2008, Sozopol, Bulgaria**

Monday 02 June

Morning session 1 *opening ceremony*

09:00 Welcome Remarks (K. Goergieva)

09:05 Welcome by Bulgarian Government official/Academy of sciences

09:15 Welcome by the Mayor of Sozopol

09:20 IHY update (N. Gopalswamy)

09:35 UNBSS update (H. Haubold)

09:50 IHY overview (J. Davila)

10:05 A note from LOC (K. Georgieva)

10:10 Rozelot, J.-P. New findings: Increasing solar trend that can change Earth climate

10:30 Break

Morning session 2 Climate (10:50 – 12:30) **CHAIR: J. Davila**

Molodykh S.I. et al, Physical model of solar activity influence on climate characteristics of troposphere

[*Kilifarska N.A.*](#) Mechanisms of Solar Influences on the Polar Atmosphere

[*Pustil`nik L. et al*](#), Possible Space Weather Influence on the Earth Wheat Markets

A.Kilcik et al., Possible Traces of Solar Activity Effect on the Land Surface Temperature of Turkey

J.O.H. Ndeda et al., Solar signature in the drought occurrence in Kenya , East Africa

Afternoon session 1 Heliobiology (15:30 - 17:10) **CHAIR: V. N. Obridko**

Elchin Babayev, Direct and Indirect Indicators of Space Weather Influence on Human Physiological and Cardio-Vascular Health State in Middle Latitudes: Results of Azerbaijani/Collaborative Studies

T.K. [Breus](#) et al., Heliogeomagnetic rhythms are indeed synchronizers of biological “clocks”

Kleimenova N.G. et al., Seasonal variations of magnetic storm influence on myocardial infarctions

Dimitrova S. et al., Possible effects of solar and geomagnetic activity on sudden cardiac death

Pipin V.V., Ragulskaia M.V., Helio-geophysical impact on variations of basic ECG properties in light of nonlinear dynamical model

17:10 Break

Afternoon session 2 Solar physics I (17:30 - 19:10) CHAIR: A.V.[Stepanov](#)

[Ishkov V.N.](#), Solar 23rd Cycle in the Development

Hiremath, K.M. Physics of the solar cycle: new views

[Obridko V.N. et al.](#), Long-term variations in the global magnetic fields, sunspot activity, and meridional circulation

A. *Abdel Hady*, Analytical study of solar energetic flares during cycle 23

[Ryabov M.I. et al.](#), The solar flare activity predictions on the base of microwaves radio-emission of complexes activity and complexes of active regions

19:30 Welcome Reception

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Tuesday 03 June

Morning session 1 Solar physics II (09:00 – 10:40) CHAIR: R.P.Kane

A.V.[Stepanov](#) *et al.*, Acceleration, dynamics and emission of energetic particles in solar flare loops

E.V.[Ivanov](#) *et al.*, Relationship between the CME parameters and large-scale structure of solar magnetic fields

[Fainshtein](#) V.G., Determination of characteristics of full halo coronal mass ejections

[Obridko](#) V.N. *et al.*, The Bz component in CMEs and in their source regions

A. [Andic](#), High frequency oscillations and their connection to chromospheric heating

10:40 Break

Morning session 2 Heliosphere, cosmic rays, IMF (11:00 – 12:40) Chair: R. Hippler

Lev [Dorman](#), Cosmic rays and space weather effects: methods of forecasting

A.[Hovhanissyan](#) *et al.*, Parameters of the Aragats Space-environmental Center monitors as measured at start of 24th Solar Cycle

[Dorman L.](#), [Pustil`nik L.](#), On the probability of solar cosmic ray fluency during SEP event in dependence of the level of solar activity

M. [Gigolashvili](#), About the quasi 11-year's variation of the solar constant, various parameters of the helio-geophysical phenomena, and solar wind

[MarisG.](#), [Maris O.](#), Characteristics of the High Speed Streams during Polarity Reversals of the Solar Magnetic Field

12:40 Lunch

Afternoon session 1 Magnetosphere (15:30 - 17:10) Chair: K. Yumoto

[Gonzalez W.](#), Interplanetary origin of geomagnetic storms

[WangC.](#) *et al.*, 3D Global Simulation of the Interaction of Interplanetary Shocks with the Magnetosphere

[BiktashL.](#), The solar wind energy input rate and recovery of the magnetospheric ring current during the two last solar cycles

[Cheremnykh O.K.](#), [Yatsenko V.A.](#), Nonlinear dynamic-information models of the magnetosphere for space

weather prediction

[Koleva](#)R. *et al.*, Magnetotail lobe population as measured by INTERBALL-1 satellite

17:10 Break

Afternoon session 2 Ionosphere, high and middle atmosphere I (17:30 - 19:10) **Chair: W. Gonzalez**

[Mikhaylov](#)A.V. . Quiet-time F2-layer disturbances: Morphology and some Formation Mechanisms

[Veenadhari](#)B. *et al.*, Storm sudden commencements at Indian stations and associated changes in interplanetary magnetic field orientation

N.A.[Kilifarska](#) *et al.*, . Cosmic Ray Showers and their relation to the Stratospheric Sudden Warmings

[Medvedeva](#)I.V. *et al.*, Behavior of the 557.7 emission in MLT region during stratospheric warning events

A.V.[Mikhaley](#), The 557.7 nm airglow variations and anomalies in the lower atmosphere and surface temperature

19:30 Dinner with nestinari (*dances on fire*)

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Wednesday 04 June

Morning session 1 Ionosphere, high and middle atmosphere II (09:00 – 10:40) Chair: A. Hanslmeier

[HoangThai Lan et al.](#), Equatorial Spread F

A. M. [Tsybal et al.](#), The midlatitude D-region response to geomagnetic storms

[BiktashL.](#) and Maruyama T., Equatorial ionosphere dynamics during geomagnetic storms

L.G.[Bankov et al.](#), 3D empirical model of topside ionosphere at mid and low latitudes during Solar minimum conditions

[Hamelin, M.](#), and the PWA-HASI team , The electrical environment of Titan after HUYGENS: lower ionosphere and electromagnetic resonances

10:40 Break

Morning session 2 Access to data of the Sun-Earth system (11:00 – 12:40) Chair: H. Haubold

A.[Hanslmeier](#), [I.Kinereich](#). The Joint Information System – A Database for Solar and Heliospheric Research

N. [Gopalswamy et al.](#), A Catalog of halo CMEs from SOHO

D. [Atanasov et al.](#), Data base of geoeffective solar wind structures, geomagnetic indices, and atmospheric dynamics parameters

[A. Yeghikyan](#). WEB based Data Visualization and processing tools for ASEC and SEVAN particle detector networks

[Klimov S.I.](#), [Grushin V.F.](#) Organizational and methodical problems of the comparison of data of the ground-based and satellite measurements

13:00 EXCURSION (Lunch on Board)

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Thursday 05 June

Morning session 1 Instruments and networks I (09:00 - 10:40) Chair: A. Ozguc

[Inan](#) *et al.*, Space Science Capacity Building with AWESOME ELF/VLF Receivers

[Singh](#) *R. et al.*, First ELF/VLF observational results from low latitude sites setup at Allahabad , Nainital and Varanasi in India under IHY/UNBSSI program

[Chilingarian](#) *A.*. Surface Particle Detectors in Space Weather forecast

[A.Reymers](#) *et al.*, Hybrid particle-detector network located at Middle-Low latitudes for Solar Physics and Space Weather research

[Angelov](#) *I. et al.*, Muon Telescopes at Basic Environmental Observatory Moussala and South-West University - Blagoevgrad

10:40 Break

Morning session 2 Instruments and networks II (11:00 - 12:40) Chair: A. Chilingarian

[Yumoto](#) *K.*, MAGDAS/CPMN Group. MAGDAS Project at SERC for Space Weather and Its Preliminary Result

[Kim Y.-H.](#) *et al.*, Optical Solar Observing Facilities in Korea Astronomy and Space Science Institute (KASI)

[Falkovych I.S.](#) *et al.*, The investigations of the solar wind with the large decametric radio telescopes of Ukraine

[Lytyvnenko](#) *I. et al.*, Multi-purpose inexpensive network for geophysical and astronomical monitoring

[Guineva V.](#), [Werner R.](#), [Vince I.](#), High resolution spectroscopic measurements of the O₂ (1,0) atmospheric system band rotational absorption lines

12:40 Lunch

Afternoon session 1 Instruments and networks III (15:30 - 17:10) Chair: Ts. Dachev

[R. Terrazas](#) A Solar station in a National University : a joint project of ICA National University, Geophysical Institute of Peru and National Astronomical Observatory of Japan

[K. Napo](#), Solar radiation measure of Togo

[Dachev](#), *Ts. et al.*, Overview of the space radiation measurements results performed under the Bulgarian space program

[Han W.](#) *et al.*, Compact Wide-Field Survey IR Space Telescope Design

V.T. Rozumenko et al., The MF radar technique: potential for studies in the mesospheric electro-dynamic area

16:00 Break

Afternoon session 2 Poster viewing (17:30 - 19:10)

(ALL poster authors need to be present at their posters)

20:00 Conference dinner

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Friday 06 June

Morning session 1 Instruments and networks IV (09:00 – 10:40) Chair: Hamid Al Naimiy

Z.Kobylinski, A.Ajabshirizadeh, A.Wysokinski, A doption of E lman recurrent neural networks for reconstruction of geomagnetic data set registered at Swider observatory in periods of inconsistent or missing data

Shkevov R., Continuous measurements during active space experiments

Semkova J., Investigatioin of ionizing radiation distribution in a human phantom aboard the International Space Station

Krumov A., Nikolova A., Thematic investigation of F raunhofer line dynamical characteristics for the needs of plant fluorescence monitoring

Adassuriya J. et al., Observations of Halpha line profiles in Be stars using 45cm Cassegrain telescope at Arthur C. Clarke Institute in Sri Lanka

10:40Break

Morning session 2 Participation of nations in IHY and BSS (15 min per presentation without discussion) (11:00 – 12:40) Chair: E. Babayev

[*Hippler R. and the SWEETS Consortium*](#). Space Weather and Europe – an Educational Tool with the Sun (SWEETS)

[*Stoeva P., Stoev A.*](#). Internatinal Heliophysical Year - Education and Public Outreach Activities in Bulgaria

[*Al-Naimiy Hamid*](#). Research and Education in Astronomy and Space Sciences for Arab Countries [*Al-Naimiy Hamid*](#). IHY and BSS in West Asia J .

Cho et al., KASI Activities for Space Weather

Ishitsuka 50 YEARS OF IGY AND NOW IHY: ACTIVITIES OF GEOPHYSICAL INSTITUTE OF PERU CONCERNING IHY

[*A. Mahrous, K.Yumoto, T.Garner*](#). IHY activities in Egypt

Afternoon session 1 Closing session and information about future activities (14:00 – 15:00) Chair: N. Gopalswamy

15:00End of UN/ESA/NASA/JAXA Workshop

Afternoon session 2 Regional meeting (15:00 - 17:00)

17:00 Public lecture (R. P. Kane)

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