

IHY-ISWI Regional Meeting

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Heliophysical phenomena and Earth's environment

7-13 September 2009, Šibenik, Croatia

organized by

Zagreb Astronomical Observatory - Astronomical Association of Zagreb

and

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FINAL PROGRAMME

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Programme Overview

Session 1

Solar Activity

Session 2

Magnetospheric and atmospheric variations

Session 3

Heliospheric conditions and cosmic rays modulations

Session 4

Space Weather impacts and climatic aspects

Session 5

Observing Techniques and Data Handling

Conference Site

Open University Campus "Lučani";

Lučani bb

HR-22010 Brodarica

Croatia

Contact Address

Zagreb Astronomical Observatory - Astronomical Association of Zagreb

Opatička 22, p.p. 943

HR-10001 Zagreb

Croatia

tel/fax: +385 1 4851355

www.zvezdarnica.hr

ihy-iswi@zvezdarnica.hr

Programme

Monday, 7 September

18:00 Registration and Welcome party

19:00 Dinner

Tuesday, 8 September

7:30 - 8:30 Breakfast

8:45 - 9:00 Opening Addresses (S. D. Bosanac)

Session 1 - Solar activity (chairman: B. Vrškina)

9:00 - 9:30 The forecast of the large solar flares: possibilities and restrictions (V. Ishkov)

9:30 - 9:50 A fast and slow chromospheric response of H-alpha and H-beta lines to effects of accelerated particles in the 26th April 2003 solar flare (L. K. Kashapova, P. Kortc, A. S. Frolova, N.S. Meshalkina)

9:50 - 10:10 A prediction for the solar cycle 24 (R. Brajsa, G. Verbanac, E. Cliver, L. Svalgaard, A. Hanslmeier, H. Woehl, M. Roth)

10:10 - 11:00 Coffee break

Session 1 - Solar activity (chairman: V. Ishkov)

11:00 - 11:20 Interaction of coronal mass ejections with large-scale structures (N. Gopalswamy, S. Yashiro, H. Xie, S. Akiyama, P. Makela)

11:20 - 11:40 Coronal Shock Formation in Various Ambient Media (T. Zic, B. Vrsnak, M. Temmer, A. Veronig)

13:30 - 14:30 Lunch

Session 1 - Solar activity (chairman: N. Gopalswamy)

17:30 - 17:50 Interplanetary propagation of coronal mass ejections (B. Vrsnak, T. Zic, D. Vrbanec)

17:50 - 18:10 Scientific astrology: planetary effects on solar activity (K. Georgieva)

18:10 - 18:30 Solar active regions with peculiar spectral polarization emission and its possible diagnostics (T.I. Kaltman, V.M Bogod, L.V. Yasnov)

19:30 - 20:30 Dinner

Wednesday, 9 September

7:30 - 8:30 Breakfast

Session 2 - Magnetospheric and atmospheric variations (chairman: D. Rosa)

9:00 - 9:20 The role of magnetospheric lobes in Solar wind-magnetosphere-ionosphere relations (R. Koleva, E. Grigorenko)

9:20 - 9:40 Magnetospheric ULF wave activity monitoring based on the ULF-index (O. Kozyreva, N. Kleimenova)

9:40 - 10:00 Solar wind-magnetosphere-atmosphere coupling: effects of magnetic storms and substorms in atmospheric electric field variations (N. G. Kleimenova, O. V. Kozyreva, S. Michnowski, M. Kubicki)

10:00 - 10:20 Morning & evening asymmetry of auroral precipitation during magnetic storms (O.I. Yagodkina, V.G. Vorobjev, I.V. Despirak)

10:20 - 10:50 Coffee break

Session 3 - Heliospheric conditions and cosmic rays modulations (chairman: E. W. Cliver)

10:50 - 11:10 Dynamics of the high speed streams during the last four solar minima (G. Maris)

11:10 - 11:30 Forewarning of upcoming radiation storm based on joint treatment of data from ASEC particle detectors and space-born measurements (A. Hovhannisyan, A. Chilingarian)

11:30 - 11:50 Investigation of daily variations of cosmic ray fluxes in the beginning of 24th solar activity cycle (A. Chilingarian, B. Mailyan)

13:30 - 14:30 Lunch

Afternoon session - Round table: Future Prospects of Space Weather

17:30 - 18:45 Introduction by N. Gopalswamy: International Space Weather Initiative (N. Gopalswamy, J. Davila)

Discussion

19:30 - 20:30 Dinner

Thursday 10 September

7:30 - 8:30 Breakfast

9:00 - 16:00 Excursion I (visiting archipelago by boat and Šibenik city)

17:30 - 18:00 Especially lecture about history of solar physics researches (E. W. Cliver)

18:00 - 19:00 Poster session - list of contributions

19:30 - 20:30 The Dangerous Face of the Sun - public lecture by N. Gopalswamy (City library "Juraj Šibenik")

19:30 - 20:30 Dinner

Friday, 11 September

7:30 - 8:30 Breakfast

Session 4 - Space Weather impacts and climatic aspects (chairman: R. Brajsa)

9:00 - 9:30 A Forecast for Cycle 24 Based on Fluctuations Above the Floor in the Solar Wind (E. W. Cliver)

9:30 - 10:00 Detection of 10-30 MeV electrons and gammas from the Relativistic Runaway Process by particle detectors at Aragats (A. Chilingarian, A. Daryan, K. Arakelyan, A. Reymers)

10:40 - 10:30 Coffee break

Session 4 - Space Weather impacts and climatic aspects (chairman: R. Brajsa)

10:30 - 10:50 Influence of space climate and space weather on the Earth (T. Kuznetsova)

10:50 - 11:10 New results of radiation environment investigation by Liulin-5 experiment in the human phantom aboard the International Space Station (J. Semkova, R. Koleva, S. Maltchev, V. Benghin, I. Chernykh, V. Shurshakov, V. Petrov, N. Bankov, M. Goranova)

11:10 - 11:30 Possible traces of solar activity effect on the surface air temperature of mid-latitudes (A.Ozguc, A. Kilcik, J. P. Rozelot)

Session 5 - Observing Techniques and Data Handling (chairman: R. Brajsa)

11:30 - 11:50 A comparison of sunspot position measurements from different data sets (I. Poljancic, R. Brajsa, D. Ruzdjak, D. Hrzina, R. Jurdana-Sepic, H. Wöhl, W. Otruba)

13:30 - 14:30 Lunch

15:30 - 18:30 Excursion II (Island Krapanj)

19:30 - 20:30 Conference dinner

Saturday 12 September

7:30 - 8:30 Breakfast

9:00 - 18:00 Excursion III (Krka National Park)

20:00 Dinner / Closing Ceremony

Sunday, 13 September

7:30 - 8:30 Breakfast

List of Invited Speakers

Edward W. Cliver (USAF, Hanscom, USA)

Ashot Chilingarian (Alikhanyan Physics Institute, Yerevan, Armenia)

Vitaly Ishkov (Izmiran, Troitsk Moscow region, Russia)

Tamara Kuznetsova (Izmiran, Troitsk Moscow region, Russia)