

4 June 2012

09.00 – 11.00 Registration

Plenary Session

Chair Lev Zeleny

11.00 – 11.15 SWH PL.1 A.I. Grigoriev (*Vice President of RAS, Academician*),
A.N. Potapov. Organism and the environment in Space flight.

11.15 – 11.30 SWH PL.2 L.M. Zeleny, *Director of IKI RAS, Academician*.

11.30 – 11.50 SWH PL.3 G.S. Golitsin, *Adviser of RAS, Academician*. The influence of weather and climate on population health.

11.45 – 12.00 SWH PL.4 Norma Bock Crosby, The COST 0803 Action and the International Space Weather Working Team.

12.00 – 12.15 SWH PL.5 O.Yu. At'kov, *Vice –President of JSC “Russian Railway”, Professor, Hero of Russia*.

12.15 – 12.30 SWH PL.6 V.A. Frolov, *Dean of Medical Department of the Russian University of People Friendship Dr. Professor*.

12.15 – 12.45 Coffee - break

Section [1] Space Weather and its role in defining the Local Environment

Chairs Ilan Roth, Natalya Ptitsyna

12.45 – 13.15 SWH 1.1 V.D. Kuznetsov. Solar sources of space weather. (*Invited talk*)

13.15 – 13.45 SWH 1.2 V.N. Obridko. Cycles of solar activity: the state of the art of the problem, basic mechanisms, and forecast. (*Invited talk*)

13.45 – 14.15 SWH 1.3 A.A. Petrukovich. Types and reliability of geomagnetic forecasts. (*Invited talk*)

14. 15 – 15.15 Lunch

Chairs Vladimir Obridko , Norma Crosby

15.15 – 15.45 SWH 1.4 V.N. Ishkov. Solar active phenomena and their actions to the Earth's environment. (*Invited talk*)

15.45 – 16.15 SWH.1.5 N.G. Ptitsyna, M. I. Tyasto. Widening the catalog of severe geomagnetic storms. (*Invited talk*)

16.15 – 16.35 SWH 1.6 G.N. Zastenker. Characteristics of Solar Wind observed with very high time -resolution measurements.

16.35 – 17.00 SWH 1.7 I. Roth. Heliospheric ion energization due to merging CME shocks.

17.00– 17.20 SWH 1.8 G. Xystouris, E. Sigala, H. Mavromichalaki. An analysis of the 23rd Solar Cycle's High-Speed Solar Wind Streams activity, sources of radiation hazards in Geospace.

17.20 – 18.00 Coffee-break

18.00 – 18.40 Public lecture. L.I. Dorman. On the role of cosmic rays and other space weather factors in the Earth's climate changes.

18.40 – 20.00 Welcome Cocktail

5 June 2012

Section [1] Space Weather and its role in defining the Local Environment (extension)

Chairs Michael Panasyk, Anatolii Petrukovich

09.00 – 09.30 SWH 1.9 Yu.I. Ermolaev. Solar and Interplanetary reasons of geomagnetic disturbances. *(Invited talk)*

09.30 – 09.50 SWH 1.10 N.M. Astafieva. The weather (and climate) on Earth and in space. *(Invited talk)*

09.50 – 10.20 SWH 1.11 N.G. Kleimenova. Pulsations in geomagnetic field as an important biotropic factor of the Space Weather. *(Invited talk)*

10.20 – 10.40 SWH.1.12 L.I. Dorman. Cosmic rays and its role in formation of biotropic effects of space weather. *(Invited talk)*

10.40 – 11.00. SWH 1.13 E.A. Ilyin. The Use of Antarctica for Space Life Sciences Research.

11.00 – 11.30 Coffee-break

Chair Yurii Ermolaev, Ilan Roth

11.30 – 11.50 SWH 1.14 M.I. Panasyk. Heavy nuclei in space as sources of radiation hazards near the Earth and in interplanetary space. *(Invited talk)*

11.50 – 12.10 SWH 1.15 M.V. Ragulskaia, V.N. Obridko, S.M. Chibisov. Space weather's biological impacts: myths, the reality and new directions of the investigations.

12.10 – 12.30 SWH.1.16 L.I. Miroshnichenko. Cosmic Rays and Evolution of the Biosphere: Search for New Approaches.

12.30 – 13.00 SWH.1.17 A.L. Kharitonov, G.P. Kharitonova. Influence of cycles of space weather on geochronology of biological, climatic and geological changes.

13.00 – 14.00 Lunch

Section [2] Space weather and human health on the Earth

Chairs Tamara Breus, Larry Beaty

14.00 – 14.30 SWH 2.1 F. Halberg, G. Cornélissen, L. Beaty, O.Schwartzkopff, Francine Halberg, M. Revilla, J. Siegelova, S. Chibisov, T. Breus. Aligned physiological-epidemiological-physical environmental monitoring of variability in Vernadsky's noösphere: a chronosphere. *(Invited talk)*

14.30 – 15.00 SWH 2.2 Kuniaki Otsuka,, Akiyo YATAGAI, Takashi NAKAOKA, Keiko OTSUKA, Yumie OTSUKA, Motonao ISHIKAWA, Yoshihiko WATANABE, Kiyohito OKUMIYA, Kozo MATSUBAYASHI, Tsering NORBOO, Germaine CORNELISSEN, Franz HALBERG. Astro-glocal spatially and temporally (global & local) comprehensive health watch especially at high altitude

15.00 – 15.30 SWH 2.3 G. Cornelissen, K. Otsuka, M. Mikulecky, F. Halberg. Subtraction and addition (remove and replace) for a scrutiny of space weather and human affairs. *(Invited talk)*

15.30 – 16.00 SWH 2.4 L. Beaty, E. Nolley, G. Cornelissen, F. Halberg. Monitoring blood pressure (BP) and heart rate (HR) automatically for less than \$100.

16.00 – 16.30 Coffee-break

Chairs Viktor Martynyuk, Norma Crosby

16.30 – 17.00 SWH 2.5 E. Stoupel. Space Weather and Medical Events: Medical Observations for 45 years. Clinical Cosmobiology. (*Invited talk*)

17.00 – 17.30 SWH 2.6 Yu.I. Gurfinkel. Physiological and pathophysiological aspects of the influence of solar activity on human organism. (*Invited talk*)

17.30 – 18.00 SWH 2.7 S.L. Zaguskin, A.K. Krylov, Y.V. Gurov, S.S. Zaguskina. Adaptation strategies of the human organism to magnetic storms. (*Invited talk*)

18.15 – 19.00. Public Lecture. V.A. Frolov. The corrected history.

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Section [2] Space weather and human health on the Earth (extension)

Chairs Tatyana Zenchenko, Vera Brandes

09.00 – 09.30 SWH 2.8 V.N. Binhi. What are the most plausible mechanisms of magnetoreception in terms of physics? (*Invited talk*)

09.30 – 09.45 SWH 2.9 S.I. Rapoport. Melatonin for prophylaxis of meteo-pathological reactions. (*Invited talk*)

09.45 – 10.15 SWH 2.10 V.S. Martynyuk, Yu.V. Tseyslyer, N.A. Temuryants. Interference of mechanism of weak external low frequency electromagnetic fields influence on man and animals. (*Invited talk*)

10.05 – 10.30 SWH 2.11 T.K. Breus. The state of the impact of geomagnetic activity and the Earth's weather on human on Earth. (*Invited talk*)

10.30 – 11.00 SWH 2.12 Dieter Broers, Vera Brandes, Franz Halberg. Electromagnetism-associated aeolian biospheric-extraterrestrial coproperiodisms and their implications. (*Invited talk*)

11.00 – 11.30 Coffee-break

Chairs Yurii Gurfinkel, Eliyahu Stoupel

11.30 – 12.00 SWH 2.13 T.A. Zenchenko. Successive approximations method in the problem of studying of individual sensitivity to Space and terrestrial weather. (*Invited talk*)

12.00 – 12.20 SWH 2.14 Ch. Katsavrias, P. Preka – Papadema, X. Moussas, Th. Apostolou, A. Theodoropoulou and Th. Papadima. Helio-geomagnetic activity influence on cardiologic cases.

12.20 – 12.40 SWH.2.15 A. Gkotsinas, P. Preka-Papadema, N. Dimisianos, P. Papachristou, G. Antonakopoulos, P. Papathanasopoulos, X. Moussas, A. Hilaris. The possible solar and geomagnetic activity effects on the disease of Multiple Sclerosis (MS).

12.40 – 13.00 SWH 2.16 I.A. Sinelnikova, E.P. Lobkayeva. The brains magnetic activity alteration induced by influence low-intensity low-frequency magnetic field.

- 13.00—13.20 SWH 2.17 *N.S. Devjatkova, E.P. Lobkaeva*. Application of a low-frequency magnetic field as means of increase of radioresistency of an organism.
- 13.20 – 13.40 SWH 2.18 *M. Vodolazhskaya, G. Vodolazhsky*. The Influence of Weather upon Human Nuerodynamic Processes according to data of EEG parameters.
- 13.40 – 14.00 SWH 2.19 *N.A. Temuryants, A.S. Kostyuk, K.N. Tumanyants, N.S. Yarmolyuk*. Long term effects of weak electromagnetic shielding invertebrate animals.

13. 40 – 15.00 Lunch

Chairs Andrey Drozdov, Christos Katsavrias

- 15.00 – 15.20 SWH 2.20 *J.A. Belaya, O.F. Belaya, V.G. Petrukhin*. Solar activity as a dominant external factor influence on the persistence of *Helicobacter pylori* in the body.
- 15.20 – 15.40 SWH 2.21 *M. Jordanova, D.Maslarov , I. Stoilova, T. Breus, T. Zenchenko*. The influence of solar activity and meteorological factors on human cerebral pathology.
- 15.40 – 16.00 SWH 2.22 *L.N. Parfenova, Yu.I. Gurfinkel, T.A. Mitrofanova, A.L. Vasin*, Assessment of ventricular disorders of heart rhythm in patients with myocardial infarctions in different geomagnetic conditions
- 16.00 – 16.20 SWH 2.23 *O.B. Novik, F.A.Smirnov*. Geomagnetic storms' influence on electric potentials of a human cerebral cortex.

16.20 – 16.50 Coffee-break

Chairs Pavel Grigoriev, Malina Jordanova

- 16.50 – 17.20 SWH 2.24 *S.V Pobachenko, A.G. Kolesnik*. Comparative estimation of dynamics of human brain activity in different helio-geophysics conditions according around the clock monitoring.
- 17.20 – 17.40 SWH 2.25 *A.S. Borodin, A.G. Kolesnik, V.V. Kalyuzhin, M.V. Gudina, O.E. Shuba*. Phenomenological features of the dynamics of mortality and morbidity in dependence on parameters of heliogeophysical activity.
- 17.40 – 18.00 SWH 2.26 *A.V. Drozdov, T.P. Nagorskaya, E.B. Travkina*. On the possible explanation of biorhythms by variations of geophysical factors.

18.30 – 19.30 Overview of Poster session.

7 June 2012

Section [3] Assessment and paths of risks reduction of diseases caused by the impact of weather and climatic and environmental factors in a changing climate

Chair Alexander Makosko, Boris Revich

- 09.00 – 09.20 SWH 3.1 *B.A. Revich*. Morbidity and mortality due to exposure to temperature waves and atmospheric pollution. (*Invited talk*)
- 09.20 – 09.40 SWH 3.2 *V.N. Anisimov, I.A. Vinogradova, A.V. Bukaley, A.V. Panchenko, I.G. Popovich, A.V. Semenchenko, M.A. Zabezhinski*. Light at night-induced circadian disruption, aging and cancer. (*Invited talk*)

- 09.40 – 10.05 SWH 3.3 A.A. Makosko, A.V. Matesheva.** Medical-ecological insurance as the social-economic adaptation form to the unfavorable effect of the environment. (*Invited talk*)
- 10.05 – 10.30 SWH 3.4 A.V. Matesheva, A.A. Makosko.** Long-term prognosis of the risk to health due to pollution of the atmosphere in terms of a changing climate. (*Invited talk*)
- 10.30 – 10.45 SWH 3.5 S.V. Tkachuk, K.G. Rubinshtein, A.A. Makosko.** Basis of weather conditions forecast for reducing meteoropathic reactions of the population.
- 10.45 – 11.25 SWH 3.6 Lev Pustilnik, Gregory Yom Din.** On possible influence of cosmic weather on Earth prices: necessary conditions and possible scenarios.

11.25 – 11.40 Coffee-break

Chairs Lev Pustilnik, Anna Matesheva

- 11.40 – 11.55 SWH 3.7 E.A. Shcherban, R.M. Zaslavskaya, M.M. Tejblum.** Adaptogens in normalization of hemodynamic parameters in meteorosensitivity patients with arterial hypertension and ischemic heart disease with taking into account an influence of the earth and cosmic weather.
- 11.55 – 12.10 SWH 3.8 B.M. Vladimírsky.** Synchronization of long Kondratiev's waves by solar activity variations; Social and Cultural indices.
- 12.10 – 12.25 SWH 3.9 V.N. Simonov, M.V. Bochkarev, O.N. Ragozin.** The effect of the modified photoperiodicity on temporal organization parameters of the central hemodynamics in people under influence of the aperiodic socio-occupational factors.
- 12.25 -12.40 SWH 3.10 A.A. Lushnikov, V.A. Zagaynov, Yu.S. Lyubov'yeva and A.D. Gvishiani.** Cosmic weather and atmospheric nanoaerosols.

12.40 – 13.30 Lunch

Section [4] Space weather and human health in Space

Chair Mark Belakovskii, Tsvetan Dachev

- 13.30 – 14.00 SWH 4.1 B.V. Morukov, A.V. Suvorov, M.S. Belakovskii, G.Y. Vasilieva.** Simulation of manned space flight on distant planets (as example, the Mars-500 project). (*Invited talk*)
- 14.00 – 14.30 SWH 4.2 N.D. Novikova.** The problems of ensuring the microbiological safety of the human environment in the long-term space flights. (*Invited talk*)
- 14.30 – 14.50 SWH 4.3 Balbir Singh, Vishnu G. Nair, C.G. Nayak.** Study of Effect of Space Weather on Manned Mars Missions and its Possible Solutions.
- 14.50 – 15.10 SWH 4.4 A.G. Chernikova, T.A. Zenchenko, R.M. Baevsky.** The influence of geomagnetic and environmental factors on the annual and seasonal dynamics of the autonomic regulation (based on Mars-500 satellite experiment).

15.10 – 15.30 SWH 4.5. V.V. Tsetlin, T.S. Gurieva, M.A. Levinskich, S.S. Moisa, N.D. Novikova, I.I. Pelevina. Biophysical mechanisms of the influence of cosmo- and geophysical factors of environment on living systems.

15.30 – 15.50 SWH 4.6. A.V. Shafirkin. Lifetime total radiation risk of cosmonauts for interplanetary and orbital cosmic flights.

15.50 – 16.10 Coffee-break

Chair Tsvetan Dachev, Vladimir Tsetlin

16.10 – 16.40 SWH 4.8 I.B. Ushakov, V.M. Petrov, A.V. Shafirkin. The specificity of the assessment of radiation risk from cosmic radiation in flight.

16.40 – 17.00 SWH 4.9 B. Zábori, A. Hirn, P. Szántó, T. Pázmándi. CoCoRAD and TECHDOSE experiments in the BEXUS stratospheric balloon program to study the dose contribution of the cosmic radiation in the stratosphere

17.00 – 17.30 SWH 4.10 T.P. Dachev. Analysis of the Space Radiation Doses in the Extra Vehicular Environment of the International Space Station (ISS). (*Invited talk*)

17.30 – 17.50 SWH 4.11 K.A. Trukhanov. Space problems of magnetobiology.

17.50 – 18.15 SWH 4.12 R.M. Baevskii, A.G. Chernikova, T.K. Breus. Magnetic storms influence on the cosmonauts in long duration flights.

18.15 – 19.00 Public Lecture. O.Yu. At'kov. Human in long-duration space flight.

18 30 – 22.00 Banquet

POSTER SESSION from 5 June till 8 June 2012

SWH P.1 A.L. Kharitonov, G.P. Kharitonova. Communication of regularities of differential rotation of deep physical covers of the Sun, Earth, other planets with regularities of biological, atmospheric, hydrochemical zonality of planets.

SWH P.2 A.L. Kharitonov, G.P. Kharitonova The influence of features of Space weather on physical&tectonic and biological processes on the Earth

SWH P.3 V.S. Martyniuk, O.V. Tsybalyuk, Yu.V. Tseysler, O.V. Shelyuk Effect of extremely low –frequency magnetic field on rhythmic activity of smooth muscles

SWH P.4 V.S. Martynyuk, E.N. Gromozova, L.G. Gorb, Yu.V. Tseyslyer, I.V. Lukyanenko The variability of the optical properties of methylene blue in solutions of inorganic polyphosphate sodium as the cause of metachromasia and its correlation with space weather

SWH P.5 J.Lominadze, K.Kartvelishvili, M.Lomouri. Complex investigation of some strong local magnetic anomalies in Georgia.

SWH P.6 N.G. Kapanadze and M. Sh. Gigolashvili. Periodicities of the Spectral Solar Irradiance and Cosmic Rays Intensity Variations during 21-23 Solar Activity Cycles.

SWH P.7 M. Sh. Gigolashvili and N.G. Kapanadze. Investigation of Selected Narrow-bands Intensity Variations of the Solar Spectral Irradiance on the Descending Phase of Solar Cycle 23.

SWH P.8 N.P. Verko, P.E Grygoryev, E.Y Shishko. Individual features of psycho-emotional states dependence from geliometeofactors.

- SWH P.9 Dewayne Hillman, George S. Katinas, Germaine Cornélissen, Othild Schwartzkopff, Franz Halberg.** Transyear vs. calendar-year amplitudes gauge global (global and local) aspects of terrorism and the cosmos.
- SWH P.10 T.A. Zenchenko, A.L. Markov, Yu.G. Solonin, E.R. Boiko.** Comparison of the sensitivity to external factors of hemodynamic and heart rate variability parameters on the basis of the analysis of individual volunteers, the Russian North.
- SWH P.11 T.A. Zenchenko, A.N. Skavulyak, N.I. Khorseva, T.K. Breus.** Characteristics of the individual reactions of the cardiovascular system in healthy people to changes of meteorological factors in a wide temperature range.
- SWH P.12 T.A. Zenchenko.** Synchronization of human heart rate and variations of the geomagnetic field in the frequency range 0.3-3 mHz.
- SWH P.13 I.A. Stepanuk, N.S. Frolova, A.V. Zimin, N.F. Perevozchikov.** A search of the hydrometeorological processes' influence mechanisms on a Stormglass.
- SWH P.14 S.N. Kotelnikov.** Influence of hot weather smokes from forest fires and ambient ozone on health of the population in Vyatskie Polyany the summer of 2010.
- SWH P.15 N.V. Efimov, V.G Zaporozhets.** Assessing the impact of factors of geomagnetic disturbances on workers of locomotive brigades.
- SWH P.16 V.A. Chereshnev, A.G. Gamburtsev, A.V. Sigachev.** Atlas temporal variations. Emergency call dynamics for last five years in Moscow.
- SWH P.17 O. Khabarova and V. Obridko.** Magnetosensitivity of live organisms as one of the main mechanisms of the space weather influence on humans and animals.
- SWH P.18 L.L. Lazutin.** Shift of the Earth's magnetic pole: how it will influence on technosphere and biosphere.
- SWH P.19 Iu.G. Solonin.** The relationship of functional parameters with atmospheric and geomagnetic factors in Northern population of men during the long term observations.
- SWH P.20 Yu.S. Lyubovtseva, R.I. Krasnoperov, A.D. Gvishiani, A.A. Makosko, E.V. Voronova, A.A. Lushnikov.** Filling the medical geoinformation system of Russia.
- SWH P.21 A.L. Markov.** Assessment of influence of atmospheric geomagnetic factors on vegetative regulation of blood circulation and myocardium condition in male residents of Russian European North.
- SWH P.22 N.I. Khorseva, P.E. Grigoryev, L.V. Poskotinova, G.V. Kilessa, A.V. Glivenko.** Integrative approach to study the effect of cosmophysical factors on functional state of human health. International Project.
- SWH P.23 D.A. Tuzhilkin, A.S. Borodin.** Evaluation the impact of variations of the set of physical fields of the environment on the functioning of the cardiovascular system of humans.
- SWH P.24 V.V. Martirosyan, Y. A. Krupskaya.** Climatic effect and effect of heliogeophysical factor on development of acute disorders of cerebral circulation.

- SWH P.25 G.V. Poghosyan.** Detection based on statistical analysis of intervals between the days of birth of genetic relatives, effect on human organisms of long-period harmonics of regular electromagnetic oscillations, with cosmo-geophysical nature, and exploring the issue of protection of the health of astronauts in deep space missions via recreating electromagnetic fields, natural for surface of Earth.
- SWH P.26 A.V. Bruns, B.M. Vladimirskii.** Sector boundaries of the interplanetary magnetic field - the effects on the "Exact" and failures of spacecraft electronics.
- SWH P.27 L.V. Grunskaya, I.A. Leshchev.** The influence of ground and space factors on human health.
- SWH P.28 G.S. Katinas, A. Yuldasheva, L.A. Aleksina.** Chronostructure of the body weight in newborn boy population in Kyrgyzstan and geomagnetic field in 2003 – 2011.
- SWH P.29 G.S. Katinas, A. Yuldasheva, L.A. Aleksina.** Methods revealing resonance frequencies and their dynamics in spectra of non-equidistant (irregular) time series.
- SWH P.30 S.N. Samsonov, V.I. Manykina, P.G. Petrova, A.A. Strekalovskaya.** Applicability of the acupuncture diagnostics for research of a connection of space weather with a condition of cardiovascular system of a human being.
- SWH P.31 S.N. Samsonov, V.I. Manykina.** Manifestation of space weather in a condition of cardiovascular system of a human being at high latitudes.
- SWH P.32 O. Isaikina, Y. Kuksa, I. Shibaev.** Long-term monitoring of arterial pressure and pulse. Comparison of the data of monitoring to meteorological and geophysical parameters.
- SWH P.33 S.I. Posohov, G.V. Kovrov, S.S. Posohov, I.P. Ponomareva, M.A. Lebedev, S. Yu. Palatov.** Distribution of activity and drowsiness within days at healthy volunteers being in isolation conditions in the project «Mars-520».
- SWH P.34 S.G. Chefranov, A.G. Chefranov, M.Yu. Rudenko, V.A. Zernov, O.K. Voronova.** On Affecting of Atmosphere Pressure Variations on the Structural Organization of the Blood Stream and Energetic Efficiency of the Cardiovascular System.
- SWH P.35 M. Papailou, H. Mavromichalaki, K. Kudela, J. Stetiarova, S. Dimitrova, Ch. Katsavrias.** The potential effect of cosmic ray intensity variations on human cardiovascular functionality.
- SWH P.36 E.V. Syutkina, G. Cornélissen, O. Krylova, M. Narogan, A.V. Masalov, F. Halberg.** Decadal solar activity cycles modulate neonates.
- SWH P.37 N.K. Botoeva.** Change of nonlinear heart rate variability in different seasons.
- SWH P.38 S.V. Tkachuk, K.G. Rubinshtein, B.A. Revich, D.A. Shaposhnikov.** Indices of heat/cold waves hazard to reduce the risks of weather's effects on health for the population of the northern regions of Russia.

- SWH P.39** *I. Ambrozova, V.A. Shurshakov, R.V. Tolochek, K. Pachnerova Brabcova, J. Kubancak, F. Spurny.* Monitoring onboard of ISS with passive detectors – 5 years experience.
- SWH P.40** *G.V. Golubkov, M.G. Golubkov, M.I. Manzhelii.* Super high-frequency -background radiation of the ionosphere during periods of strong geomagnetic disturbances.
- SWH P.41** *G.V. Golubkov, A.I. Kokorin, A.A. Lushnikov.* Influence of microwave 50-100 GHz radiation in the upper Earth's atmosphere on biosphere during the periods of increasing the solar activity.
- SWH P.42** *Crosby, Norma; Veronig, Astrid; Robbrecht, Eva; Vrsnak, Bojan; Vennerstrom, Susanne; Malandraki, Olga; Dalla, Silvia; Nandita Srivastava; Michael Hesse; Dusan Odstrcil.* Forecasting Geomagnetic Storms and Solar Energetic Particle Events: COMESEP.
- SWH P.43** *J. Kubancak, O. Ploc, I. Ambrozova, I. Kovar, F. Spurny.* Long-term monitoring of cosmic radiation onboard aircraft with the silicon spectrometer *Liulin*.
- SWH P.44** *Yu.P. Gorgo, M.A. Liabakh.* Possible mechanisms of beginnings and correction of the human varied reactions on magnetic storms.
- SWH P.45** *A.E. Lishnevskii, M.I. Panasyuk, O.Yu. Nechaev, V.V. Benghin, V.M. Petrov, A.N. Volkov, V.I. Lyagushin, I.V. Nikolaev.* Variations of a radiation environment onboard the International Space Station during 2001-2011 according to data of the radiation monitoring system.
- SWH P.46** *N.M. Salikhov, G.D. Pak.* The Secondary Cosmic Gamma-radiation Component as a Mechanism of Space Weather Influence on a Human Body.
- SWH P.47** *S.P. Perov, A.S. Perov.* "Experiments on themselves" – the cardiovascular system.
- SWH P.48** *N.P. Povolotskaya, D. Topuria, M.A. Trubina.* On the question of the physiological markers of heliometeosensitivity in patients with metabolic syndrome.
- SWH P.49** *S. Ioannidou, M. Papailiou, H. Mavromichalaki, Th. Apostolou, K. Paravolidakis, M. Kouremeti, L. Rentifis, E. Simantirakis, G. Xystouris.* Impact of cosmic ray intensity and geomagnetic activity on human heart rate.
- SWH P.50** *I.F. Nikulin.* Possible mechanism of solar-terrestrial connections.
- SWH P.51** *J. Pérez-Peraza, J. Zapotitla, I. Ya. Libin.* Possible role of the cosmic rays in the formation of the antarctic ozone hole.
- SWH P.52** *G.N. Degteva, Zh.L. Varakina, A.L. Sannikov, N.Yu. Pshenichnaya, I.V. Grishchenko, T.N. Unguryanu, R.V. Buzinov.* Features of Health State of Population of Far North of Russian Federation in Conditions of Climate Change.
- SWH P.53** *A.M. Merzlyy1, L.V. Poskotinova2, D.B.Demin2, E.V. Krivonogova.* The results of experiment on the influence of Earth's magnetic field on the parameters of brain electrical activity.

8 June 2012

10.00 – 13.00 Excursion to Kremlin (in English) and Red Square

13.00 – 14.00 Lunch in Café “Okhotny Ryad”

14.00 - Pedestrian excursion in downtown of Moscow

Or

14.00 – 17.00 Excursion over Moscow –River (in Russian)

Departure