

**Conference organizers:**

Institute of Natural and Technical Systems

Sevastopol State University

Sevastopol Branch of Lomonosov Moscow State University

Institute of Global Climate and Ecology named after Academician Y.A. Israel

Sevastopol City Branch of the Russian Geographical Society

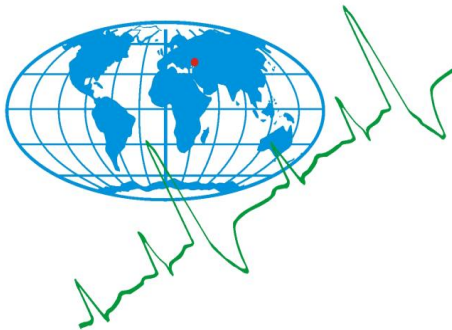
A.M. Obukhov Institute of Atmospheric Physics of the RAS

Institute of Geography of the RAS

**PROGRAM**

**The international scientific and practical conference**

**«Environmental Control Systems – 2022»**



Sevastopol  
November 8-11, 2022

**PROGRAM**  
**The international scientific and practical conference**  
**«Environmental Control Systems – 2022»**  
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**PROGRAM COMMITTEE OF THE CONFERENCE**

**Chairman –Voskresenskaya E.N.**, Doctor of Geographical Sciences, Prof., Deputy Director on Scientific Work, Institute of Natural and Technical Systems, Sevastopol, Russia.

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**Cao Xuan** – PhD, senior research fellow, Institute of Oceanographic Instrumentation of the Academy of Sciences of Shandong Province, China.

**Zhang Ying Ying** – PhD, Senior Research Fellow, Institute of Oceanographic Instrumentation of the Academy of Sciences of Shandong Province, China.

**Bardin M.Yu.** – PhD., Head of the Department, FSBI "Institute of Global Climate and Ecology named after Yu.A. Israel", Moscow, Russia.

**Belan B.D.** – Doctor of Physical and Mathematical Sciences, Prof., Deputy Director of the V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia.

**Gaisky V.A.** – Doctor of Technical Sciences, Prof., Head of the Laboratory, Institute of Natural and Technical Systems, Sevastopol, Russia.

**Grekov A.N.** – PhD, Deputy Head of the Center, Institute of Natural and Technical Systems, Sevastopol, Russia.

**Grekov N.A.** – Doctor of Technical Sciences, Prof., Chief Research Fellow, Institute of Natural and Technical Systems, Sevastopol, Russia.

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**Evstigneev M.P.** – Doctor of Physical and Mathematical Sciences, Prof., Vice-Rector for Scientific Activity of the Sevastopol State University, Sevastopol, Russia.

**Romanovskaya A.A.** – Doctor of Biological Sciences, Corresponding Member of the Russian Academy of Sciences, Director of the Y.A. Israel Institute of Global Climate and Ecology, Moscow, Russia.

**Sadakov V.A.** – PhD, Associate Prof., Captain of the 1st rank, Deputy Head of the School for Academic and Scientific Work, the Black Sea Higher Naval Order of the Red Star School named after N.S. Nakhimov, Sevastopol, Russia.

**Semenov V.A.** – Doctor of Physical and Mathematical Sciences, Prof., Academician of the Russian Academy of Sciences, Deputy Director of the

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**Solomina O.N.** – Doctor of Geographical Sciences, Prof., Corresponding Member of the Russian Academy of Sciences, Director of the Institute of Geography of the RAS, Moscow, Russia.

**Shpyrko O.A.** – Ph.D., Associate Prof., Director of the Branch of the Lomonosov Moscow State University in Sevastopol, Sevastopol, Russia.

### **ORGANIZING COMMITTEE**

**Chairman – Sidorov S.M.**, PhD, Scientific Secretary of the Institute of Natural and Technical Systems.

**Co-Chairman – Lubkov A.S.**, Chairman of the Council of Young Sciences of the Institute of Natural and Technical Systems.

**Egorkin A.A.** – PhD, Associate Prof., Senior Researcher of the Institute of Natural and Technical Systems.

**Kashirina E.S.** – PhD, Head of the educational program "Geography", Sevastopol Branch of Lomonosov Moscow State University.

**Rubtsova S.I.** – PhD, Deputy Director of Project Work of the Institute for Advanced Studies of the Sevastopol State University, Sevastopol, Russia.

**Baka Yu.V.** – PhD, Associate Prof., Captain of the 3rd rank, Head of the Department of Organization of Scientific Work, the Black Sea Higher Naval Order of the Red Star School named after N.S. Nakhimov, Sevastopol, Russia.

**Averyanova E.A.** – Researcher of the Institute of Natural and Technical Systems.

**Beitzer S.S.** – Head of the Department of the Institute of Natural and Technical Systems.

**Bernadina S.A.** – Engineer of the Institute of Natural and Technical Systems.

**Grebneva E.A.** – Junior Researcher of the Institute of Natural and Technical Systems.

**Gubarev A.V.** – Junior Researcher of the Institute of Natural and Technical Systems.

**Zhuravsky V.Yu.** – Junior Researcher of the Institute of Natural and Technical Systems.

**Marchukova O.V.** – Researcher of the Institute of Natural and Technical Systems.

**Novikov A.A.** – Senior Lecturer, Lomonosov Moscow State University Branch in Sevastopol.

**Onyshko A.A.** – Lead Engineer of the Institute of Natural and Technical Systems.

**Stefanovich A.A.** – Junior Researcher of the Institute of Natural and Technical Systems.

**Shishkin Yu.E.** – PhD, Researcher of the Institute of Natural and Technical Systems.

## CONFERENCE SCHEDULE

*November 8th (Tuesday)*

Arrival and accommodation of the conference participants in hotels

*November 9 (Wednesday)*

Institute of Natural and Technical Systems

9.30 – 10.00	Registration of the conference participants
10.00 – 10.10	Opening of the conference
10.10 – 11.40	Plenary reports
11.15 – 15.30	Oral presentations
15.30 – 17.30	Poster presentations

*November 10 (Thursday)*

Institute of Natural and Technical Systems

9.00 – 15.45	Oral presentations
15.45 – 17.30	Poster presentations
17.45 – 18.30	Round table discussions. Resolution adoption

*November 11 (Friday)*

Konstantinovskaya battery

10.00–12.00	Round table discussions
12.00–15.00	Excursion to the sights of Sevastopol
15.00–24.00	Departure of the conference participants

### **The schedule of speeches:**

plenary report – 30 minutes,  
sectional report – 15 minutes.

## November 9 (Wednesday)

<b>09.30– 10.00</b>	<b>Registration of the conference participants</b>
<b>10.00–10.10</b>	<b>Opening of the conference</b>
<b>Plenary reports</b>	
<b>10.10–10.40</b>	<i>Perevedentsev Yu.P., Shantalinsky K.M., Mirsaeva N.A., Nikolaev A.A., Ismagilov N.V.</i> Climate changes in Northern Eurasia in the 19th - 21st centuries and their regional manifestations. (Kazan (Volga Region) Federal University, Kazan)
<b>10.40–11.10</b>	<i>Gaisky V.A.</i> Modern state and tasks in the field of marine scientific and ecological instrument engineering. (Institute of Natural and Technical Systems, Sevastopol)
<b>11.10–11.40</b>	<i>Egorkin A.A.</i> Using the ontological approach with the aim to develop decision support system to ensure the environmental safety of natural and technical systems. (Institute of Natural and Technical Systems, Sevastopol)

## Section meetings

### Section «Global and regional climate and environmental changes»

#### 11.45–15.15 Oral presentations

<b>11.45–12.00</b>	<i>Jiang Fang.</i> Causes and Effects of Climate Change. (Dalian Ocean University, Dalian, China)
<b>12.00–12.15</b>	<i>Zhabin I.A., Dmitrieva E.V., Taranova S.N.</i> Mesoscale eddies in the Bering Sea according to satellite altimetry data. (V.I. Il'ichev Pacific Oceanological Institute of the FEB RAS, Vladivostok)
<b>12.15–12.30</b>	<i>Antokhina O.Yu.<sup>1</sup>, Antokhin P.N.<sup>1</sup>, Arshinova V.G.<sup>1</sup>, Arshinov M.Yu.<sup>1</sup>, Belan B.D.<sup>1</sup>, Belan S.B.<sup>1</sup>, Guruleva E.V.<sup>1</sup>, Davydov D.K.<sup>1</sup>, Ivlev G.A.<sup>1</sup>, Kozlov A.V.<sup>1</sup>, LawK.<sup>2</sup>, Rasskazchikova T.M.<sup>1</sup>, Paris J.-D.<sup>3</sup>, Savkin D.E.<sup>1</sup>, Simonenkov D.V.<sup>1</sup>, Sklyadneva T.K.<sup>1</sup>, Tolmachev G.N.<sup>1</sup>, Fofonov A.V.<sup>1</sup>.</i> Features of carbon dioxide distribution over the Russian sector of the Arctic in September 2020. ( <sup>1</sup> V.E. Zuev Institute of Atmospheric Optics of the SB RAS, Tomsk, <sup>2</sup> Laboratoire

	Atmosphères, University of Versailles - Paris-Saclay University and Sorbonne University, Paris, France, <sup>3</sup> Laboratoire des Sciences du Climat et de l'Environnement, Institute Pierre Simon Laplace, Gif-sur-Yvette, France)
<b>12.30–12.45</b>	<i>Gornostaeva A.A., Demezhko D.Yu., Khatskevich B.D., Vdovin A.G.</i> Yekaterinburg city heat island in the surface air temperature field. (Institute of Geophysics of the UB RAS, Yekaterinburg)
<b>12.45–13.00</b>	<i>Ormeli E.I., Pryakhina S.I.</i> Global climate warming impact on the duration of the seasons in the Saratov region. (N.G. Chernyshevsky Saratov National Research State University, Saratov)

### 13.00–13.45 Lunch break

<b>13.45–14.00</b>	<i>Rybak O.O.<sup>1,2,3</sup>, Rybak E.A.<sup>2,3</sup>, Korneva I.A.<sup>3,4</sup>, Satylkanov R.A.<sup>5,6</sup></i> Projected climate changes in the inner Tien Shan and its likely impact on water resources. ( <sup>1</sup> Institute of Water Problems of the RAS, Moscow, <sup>2</sup> Subtropical Science Center of the RAS, Sochi, <sup>3</sup> Branch of Institute of Natural and Technical Systems, Sochi, <sup>4</sup> Institute of Geography of the RAS, Moscow, <sup>5</sup> Tien Shan Alpine Research Center at the Institute of Water Problems and Hydropower of the National Academy of Sciences of the Kyrgyz Republic, Kyzyl-Suu, Kyrgyzstan, <sup>6</sup> Research Center for Ecology and Environment of Central Asia, Bishkek, Kyrgyzstan)
<b>14.00–13.45</b>	<i>Marchukova O.V., Lubkov A.S., Voskresenskaya E.N.</i> Manifestations of La Niña events of 2020–2021 in the European Region: La Niña and its observed climate anomalies. (Institute of Natural and Technical Systems, Sevastopol)
<b>14.00–14.15</b>	<i>Evstigneev V.P.<sup>1,2</sup>, Naumova V.A.<sup>1,2</sup>, Korsakova S.P.<sup>2,3</sup></i> Typing of normalized heavy rainfall profiles in the Crimean region. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol, <sup>3</sup> Nikitsky Botanical Gardens - National Scientific Center of the RAS, Yalta)
<b>14.15–14.30</b>	<i>Alimpieva M.A., Yukhmin Yu. B., Sharapov S.V.</i> Analysis of surface air temperature changes in July during different periods of climate variability. (N.G. Chernyshevsky Saratov National Research State University, Saratov)
<b>14.30–14.45</b>	<i>Zotov L.V.</i> Sea level and gravity field changes according to data of altimetry and Grace data. (Moscow Institute of Electronics and Mathematics, Moscow)

<b>14.45–15.00</b>	<i>Parfenova A.V.</i> <sup>1,2</sup> , <i>Kulygin V.V.</i> <sup>2</sup> Fields of distributions of meteorological parameters for the analysis of climate projections of the Lower Don basin. ( <sup>1</sup> Southern Federal University, Rostov-on-Don, <sup>2</sup> Federal Research Center Southern Scientific Center of the RAS, Rostov-on-Don)
<b>15.00–15.15</b>	<i>Fedotov A.B.</i> Analysis of jet zonal current formation as an element of ocean circulation at different localizations of wind forcing. (Institute of Natural and Technical Systems, Sevastopol)

### 15-15–15.30 Coffee break

### 15.30 – 17.30 Poster session of the section «Global and regional climate and environmental changes»

<i>Jiang Fang.</i> Possible Causes and Effects of Global Warming on China. (Dalian Ocean University, Dalian, China)
<i>Yang Jingyi.</i> Development of global and regional climate research methods. (Dalian Ocean University, Dalian, China)
<i>Yao Lingxiang.</i> The influencing parameter of flow blocking effect of MIKE21 middle pier. (Dalian Ocean University, Dalian, China)
<i>Zhang Ru</i> <sup>1</sup> , <i>Song Jun</i> <sup>1</sup> , <i>A. B. Polonsky</i> <sup>2,3</sup> , <i>Wang Linhui</i> <sup>1</sup> , <i>Guo Junru</i> <sup>1</sup> , <i>Fu Yanzhao</i> <sup>1</sup> , <i>Zhao Qian</i> <sup>4</sup> , <i>Zhang Ruijin</i> <sup>1</sup> . The spring-neap variability and mechanisms of long-term variations in the upwelling at the tip of Liaodong Peninsula, China. ( <sup>1</sup> College of Marine Science and Environment, The Operational Oceanographic Institution, Dalian Ocean University, China, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>3</sup> Sevastopol Branch of Moscow State University, Sevastopol, <sup>4</sup> National Marine Environmental Monitoring Center, China)
<i>Averyanova E.A.</i> , <i>Lubkov A.S.</i> Comparative analysis of variability and trends of total turbulent heat fluxes according to the data of the OAFflux project and atmospheric reanalyses NCEP/NCAR, NCEP-R2, MERRA2. (Institute of Natural and Technical Systems, Sevastopol)
<i>Akhsalba A.K.</i> <sup>1,2</sup> , <i>Evstigneev V.P.</i> <sup>3</sup> , <i>Kishmaria Ya.Sh.</i> Climate risks associated with the transformation of atmospheric precipitation on the territory of the Republic of Abkhazia. ( <sup>1</sup> Abkhaz State University, Sukhum, Abkhazia, <sup>2</sup> Institute of Ecology of the Abkhazia Academy of Sciences, Sukhum, Abkhazia, <sup>3</sup> Sevastopol State University, Sevastopol)
<i>Akhsalba A.K.</i> <sup>1,2</sup> , <i>Marandidi S.I.</i> <sup>1,2</sup> , <i>Rybtsov T.Z.</i> <sup>2</sup> Study of some greenhouse gases on the territory of the Republic of Abkhazia. ( <sup>1</sup> Institute of Ecology of the Academy Sciences of Abkhazia, Sukhum, <sup>2</sup> Abkhaz State University, Sukhum, Abkhazia)
<i>Bessonova T.N.</i> Determination of the vulnerability of the population of the European and Ural North. (Ugra State University, Khanty-Mansiysk)

<p><i>Volkov A.Yu.<sup>1</sup>, Gromov S.A.<sup>2,3</sup></i> Analysis of atmospheric transports associated with high air pollution in the Central Forest Biosphere Reserve. (<sup>1</sup>Russian State Agrarian University – Moscow Agricultural Academy named after K.A. Timiryazev, Moscow, <sup>2</sup>Institute of Global Climate and Ecology named after Academician Y.A. Israel, Moscow, <sup>3</sup>Institute of Geography of the RAS, Moscow)</p>
<p><i>Gaiko L.A.<sup>1,2</sup></i> Variability of water and air temperature along the Primorsky Krai coast at the turn of the century (Sea of Japan). (<sup>1</sup>V.I. Il'ichev Pacific Oceanological Institute FEB RAS, Vladivostok, <sup>2</sup>The Far Eastern State Technical Fisheries University, Vladivostok)</p>
<p><i>Galushin D.A.<sup>1,2</sup>, Gromov S.A.<sup>1,3</sup></i> Assessment of sulfate and nitrogen deposition with atmospheric precipitation at stations of the Russian segment of the EMEP network for the period from 2000 to 2019 (<sup>1</sup>Institute of Global Climate and Ecology named after Ak. Yu.A. Izrael, Moscow, <sup>2</sup>Russian State Agrarian University – Moscow Agricultural Academy named after K.A. Timiryazev, Moscow, <sup>3</sup>Institute of Geography of the RAS, Moscow)</p>
<p><i>Grebneva E.A.</i> Interannual fluctuations of the pH value of the surface layer for the Black Sea open part. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Gubarev A.V., Averyanova E.A., Polonsky A.B.</i> On the influence of the East-Atlantic/West-Russian Pattern on wind stress curl over the Black Sea region. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Zhigacheva E.S.<sup>1</sup>, Gromov S.A.<sup>1,2</sup></i> Evaluation of the dynamics of the ratio of water level and runoff discharge according to the data of long-term monitoring of the rain-fed river of the Far East. (<sup>1</sup>Institute of Global Climate and Ecology named after Academician Y.A. Israel, Moscow, <sup>2</sup>Institute of Geography of the RAS, Moscow)</p>
<p><i>Ivanova A.A., Mirsaeva N.A.</i> Dynamics of bioclimatic resources in the southeastern part of the Irkutsk region. (Kazan (Volga Region) Federal University, Kazan)</p>
<p><i>Kitaev L.M.<sup>1</sup>, Ablaeva V.A.<sup>2</sup></i> Features of local variability of groundwater levels at the background of meteorological regime changes. (<sup>1</sup>Institute of Geography of the RAS, Moscow, <sup>2</sup>Prioksko-Terrasny State Natural Biosphere Reserve, Danki Settlement)</p>
<p><i>Komarov R.S.<sup>1,2</sup></i> Higher-than-normal removal of the main ions with the waters of the Kuban River to the Sea of Azov. (<sup>1</sup>Southern Federal University, Rostov-on-Don, <sup>2</sup>Hydrochemical Institute, Rostov-on-Don)</p>
<p><i>Lubkov A.S., Zhuravsky V.Yu.</i> On possible changes in the wind energy resources of Crimea by the end of the 21st century on base of the CORDEX project. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Lubkov A.S., Stefanovich A.A.</i> An approach to statistical correction of atmospheric reanalysis data using meteorological observations on the example of the Crimean region. (Institute of Natural and Technical Systems, Sevastopol)</p>



<i>Marchukova O.V.</i> The role of equatorial Rossby waves in the formation of spatial types of La Niña. (Institute of Natural and Technical Systems, Sevastopol)
<i>Maslova V.N., Voskresenskaya E.N., Lubkov A.S., Yurovsky A.V., Zhuravsky V.Yu.</i> Manifestations of climate signals at the anomalies of the Black Sea and Mediterranean cyclones. (Institute of Natural and Technical Systems, Sevastopol)
<i>Mishchenko K.I.<sup>1</sup>, Trifonova-Yakovleva A.M.<sup>2,3</sup>, Gromov S.A.<sup>3,2</sup></i> Estimation of dry fallout of atmospheric nitrogen compounds in the Lake Baikal region. ( <sup>1</sup> Russian State Agrarian University – Moscow Agricultural Academy named after K.A. Timiryazev, Moscow, <sup>2</sup> Institute of Geography RAS, Moscow, <sup>3</sup> Institute of Global Climate and Ecology, Moscow)
<i>Novoselova E.V.<sup>1</sup>, Belonenko T.V.<sup>1</sup>, Zhmur V.V.<sup>2</sup></i> Vaisala-Brent frequency distribution in cyclones and anticyclones. ( <sup>1</sup> St. Petersburg State University, St. Petersburg, <sup>2</sup> Shirshov Institute of Oceanology of the RAS, Moscow)
<i>Ormeli E.I., Salmanov M.A., Kukosh A.S.</i> Features of the temperature and humidity regime of the winter period in the Saratov region for 2010-2020 (N.G. Chernyshevsky Saratov National Research State University, Saratov)
<i>Pachulia E.V.<sup>1</sup>, Ekba Ya.A.<sup>1,2</sup></i> Features of the formation of squally gusts of wind on the territory of the Republic of Abkhazia. ( <sup>1</sup> Abkhaz State University, Sukhum, Abkhazia, <sup>2</sup> Institute of Ecology of the Abkhazia Academy of Sciences, Sukhum, Abkhazia)
<i>Pekarnikova M.E.</i> "Climategate" and its impact on the political and legal aspects of regulation of anthropogenic climate change. (Institute of Natural and Technical Systems, Sevastopol)
<i>Popov I.O.<sup>1</sup>, Popova E.N.<sup>2</sup></i> Investigation of the statistical relationship between the number of detected Wuhan COVID-19 cases and Moscow weather conditions in 2020. ( <sup>1</sup> Institute of Global Climate and Ecology named after Ak. Yu.A. Izrael, Moscow, <sup>2</sup> Institute of Geography of the RAS, Moscow)
<i>Rakcheeva E.A.<sup>1,2</sup>, Sapozhnikova A.A.<sup>1,2</sup>, Zemlyanov I.V.<sup>1</sup></i> Calculation of evaporation from the water surface of the Crimean Peninsula reservoirs. ( <sup>1</sup> N.N. Zubova State Oceanographic Institute, Moscow, <sup>2</sup> Water Problems Institute of the RAS, Moscow)
<i>Serebrennikov A.N.</i> Temperature changes in the Black Sea surface as a climate signal. (Institute of Natural and Technical Systems, Sevastopol)
<i>Silkin P.P.</i> Pixel-contrast densitometry as a new method for tree-ring densitometry in woody plants. (Branch of the Institute of Natural and Technical Systems, Sochi)
<i>Stefanovich A.A.<sup>1,2</sup></i> Study of PET extreme values during the warm period of the year in Crimean cities. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol)

State University, Sevastopol)
<i>Stefanovich A.A.</i> <sup>1,2</sup> , <i>Voskresenskaya E.N.</i> <sup>1,2</sup> , <i>Lubkov A.S.</i> <sup>1,2</sup> Estimates of linear trends in Crimea bioclimatic indices. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol)
<i>Sukhonos O.Yu.</i> , <i>Vyshkvarkova E.V.</i> Joint extremes of air temperature and precipitation in Eastern Europe. (Institute of Natural and Technical Systems, Sevastopol)
<i>Sukhonos P.A.</i> The role of the upper layer heat balance components in the asymmetry of temperature anomalies in the eastern North. (Institute of Natural and Technical Systems, Sevastopol)
<i>Fedotov A.B.</i> Analysis of long-term variability time scales of the oceanic circulation using a three-layer numerical model. (Institute of Natural and Technical Systems, Sevastopol)
<i>Fedotov A.B.</i> Analysis of the destruction of the jet zonal flow as an element of oceanic circulation at different wind action localization. (Institute of Natural and Technical Systems, Sevastopol)
<i>Khintuba L.V.</i> <sup>1</sup> , <i>Ekba Ya.A.</i> <sup>2</sup> , <i>Akhsalba A.K.</i> <sup>2</sup> Signs of cooling of the surface air layer in Abkhazia in the last decade. ( <sup>1</sup> Abkhazia State University, Sukhum, Abkhazia, <sup>2</sup> Institute of Ecology of the Abkhazia Academy of Sciences, Sukhum, Abkhazia)

## November 10 (Thursday)

### Section meetings

#### Section «Methods and means of measuring the parameters of the natural environment»

#### 09.00–11.45 Oral presentations

<b>09.00-09.15</b>	<i>Pozdnyakova V.V.</i> , <i>Kustikova M.A.</i> Modern methods of indicators' remote detection of hydrocarbon deposits in marine areas. ("Institute of Fine Mechanics and Optics" University, St. Petersburg)
<b>09.15-9.30</b>	<i>Shishkin Yu.E.</i> , <i>Pasynkov M.A.</i> , <i>Mishurov V.Zh.</i> , <i>Shmyreva I.G.</i> Development of a two-component optical channel for measuring water turbidity. (Institute of Natural and Technical Systems, Sevastopol)

<b>09.30-09.45</b>	<i>Ishutina E.O., Kustikova M.A.</i> Analysis of reverse carbon dioxide recovery technologies. ("Institute of Fine Mechanics and Optics" University, St. Petersburg)
<b>09.45-10.00</b>	<i>Sapozhnikova A.A.<sup>1,2</sup>, Rakcheeva E.A.<sup>1,2</sup>, Zemlyanov I.V.<sup>1</sup></i> Automated measuring instruments for conducting heat balance observations on experimental watersheds of the main rivers on the Crimean Peninsula. ( <sup>1</sup> N.N. Zubova State Oceanographic Institute, Moscow, <sup>2</sup> Water Problems Institute of the RAS, Moscow)
<b>10.00–10.15</b>	<i>Shatokhin A.V.<sup>1</sup>, Seleznev I.A.<sup>1</sup>, Ivakin Ya.A.<sup>1</sup>, Grekov A.N.<sup>2</sup></i> Automated early warning biosensor system for ecological monitoring of the aquatic environment. ( <sup>1</sup> JSC «Concern «Oceanpribor», St. Petersburg, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol)
<b>10.15–10.30</b>	<i>Chachiev D.R., Porozov K.S., Timchenko I.V., Sosnovsky Yu.V.</i> Hardware-software complex for distributed collection and analysis of agrometeorological data. (V.I. Vernadsky Crimean Federal University, Simferopol)

### 10-30 – 10.45 Coffee break

<b>10.30–10.45</b>	<i>Shvoev D.A., Volkov S.V., Kochetov O.Yu., Ostrovsky A.G.</i> Probe-profilograph "VINCHI". (Shirshov Institute of Oceanology of the RAS, Moscow)
<b>10.45–11.00</b>	<i>Kochetov O.Yu., Volkov S.V., Ostrovsky A.G.</i> Software and hardware platform of the "VINCHI" probe-profilograph. (Shirshov Institute of Oceanology of the RAS, Moscow)
<b>11.00–11.15</b>	<i>Nikishin V.V.<sup>1</sup>, Bagaev A.V.<sup>2</sup></i> Modular system for recording hydrophysical parameters of the surface water layer. ( <sup>1</sup> Sevastopol State University, Sevastopol, <sup>2</sup> Marine Hydrophysical Institute, Sevastopol)
<b>11.15–11.30</b>	<i>Steblyanko D.V.<sup>1</sup>, Grekov N.A.<sup>2</sup></i> Algorithm for increasing the sensitivity of a vibration meter used to control the environment. ( <sup>1</sup> The Admiral Nakhimov Higher Naval School, Sevastopol, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol)
<b>11.30–11.45</b>	<i>Khalikov I.S.</i> Control of dibenzothiophene and benzo[b]naphtho[2,1-d] thiophene in environmental objects using HPLC-PD. (Scientific and Production Association "Typhoon", Obninsk)

**15.45–17.15 Poster session of the section «Methods and means of measuring the parameters of the natural environment»**

<p><i>Gaisky V.A.</i> Possibilities for improving the accuracy of measuring hydrostatic pressure with strain gauge sensors. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Gaisky P.V.<sup>1</sup>, Sholar S.A.<sup>1,2</sup>, Stepanova O.A.<sup>2</sup></i> Laboratory facility for studying the effect of ultraviolet radiation on marine microbiota under experimental conditions. (<sup>1</sup>Marine Hydrophysical Institute, Sevastopol, <sup>2</sup>Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Kalninya Ya.K.<sup>1</sup>, Khayurova A.V.<sup>2</sup>, Babenko D.I.<sup>2</sup>, Krasnov K.A.<sup>1</sup>, Krasnova A.A.<sup>1</sup>, Melnikova M.V.<sup>1</sup>, Gladchuk A.S.<sup>1,3</sup>, Sukhodolov N.G.<sup>3,4</sup>, Podolskaya E.P.<sup>1,4</sup>, Shustov E.B.<sup>1</sup></i> Determination of polyprenols using the Chromatograph "MILICHROM A-02". (<sup>1</sup>Scientific and clinical center of toxicology named after academician S.N. Golikov Federal Medical and Biological Agency, St. Petersburg, <sup>2</sup>St. Petersburg State Technological Institute (Technical University), <sup>3</sup>Saint Petersburg State University, St. Petersburg, <sup>4</sup>St. Petersburg, Institute of Analytical Instrumentation, St. Petersburg)</p>
<p><i>Grekov A.N., Kabanov A.A.</i> Machine learning boosting algorithms for determining Euler angles in an inertial navigation system. (Sevastopol State University, Sevastopol)</p>
<p><i>Grekov A.N.<sup>1</sup>, Grekov N.A.<sup>1</sup>, Kravtsova S.E.<sup>2</sup>, Alekseev S.Yu.<sup>1</sup></i> Compensation of acoustic signal delays in devices measuring flow velocity, sound velocity and temperature in the aquatic environment. (<sup>1</sup>Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup>Sevastopol State University, Sevastopol)</p>
<p><i>Grekov A.N., Grekov N.A., Sychev E.N., Kuzmin K.A.</i> Seawater Sound Velocity Equations for Real-Time Measurement of Fast-Changing Ocean Processes. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Grekov N.A., Grekov A.N.</i> Simulation results of the flow velocity profiles in the acoustic measuring tube of the device with a confuser. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Dologlonyan A.V., Matveenko V.T., Klimenko A.G.</i> Characteristics of solar hybrid micro gas turbine plants at partial loads. (Institute of Natural and Technical Systems, Sevastopol)</p>
<p><i>Dologlonyan A.V.<sup>1</sup>, Safonov V.A.<sup>1,2,3</sup>, Klimenko A.G.<sup>1</sup></i> Method for converting wind energy into mechanical energy. (<sup>1</sup>Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup>Sevastopol State University, Sevastopol, <sup>3</sup>Sevastopol Branch of State Oceanographic Institute, Sevastopol)</p>

<i>Evdokimov P.A.<sup>1,2</sup>, Shirokov I.B.<sup>2</sup>, Shirokova E.I.<sup>2</sup></i> Measuring station for monitoring of the change in the composition of the air. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol)
<i>Oleinikov A.M.<sup>1</sup>, Kanov L.N.<sup>2</sup></i> Peculiarities of mathematical modeling of power transmission from wind power plants in offshore zones. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol)
<i>Klimenko A.G., Dologlonyan A.V., Matveenko V.T., Onyshko A.A.</i> Cogeneration plants based on internal combustion engines and their impact on efficient and environmental performance. (Institute of Natural and Technical Systems, Sevastopol)
<i>Klimenko A.V.<sup>1,2</sup>, Evdokimov P.A.<sup>1,2</sup></i> Circuit implementation of the conductometer. ( <sup>1</sup> Sevastopol State University, Sevastopol, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol)
<i>Krasnodubets L.A.<sup>1,2</sup></i> Algorithmic support for express analysis of the vertical stratification of the ocean environment. ( <sup>1</sup> Sevastopol State University, Sevastopol, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol)
<i>Krasnodubets L.A.<sup>1,2</sup>, Kanov L.N.<sup>1</sup></i> Improving the accuracy of dynamic measurements of vertical density and temperature profiles of sea water. ( <sup>1</sup> Sevastopol State University, Sevastopol, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol)
<i>Kuzmin K.A., Mishurov V.Zh., Trusevich V.V., Pelyushenko S.S., Pasyнков M.A.</i> Laboratory setup for studying the response of bivalve mollusks to the impact of an acoustic signal with different amplitude and frequency spectrum. (Institute of Natural and Technical Systems, Sevastopol)
<i>Matveenko V.T., Dologlonyan A.V., Klimenko A.G.</i> Energy and environmental characteristics of distributed power plants based on gas turbine engines. (Institute of Natural and Technical Systems, Sevastopol)
<i>Moiseev D.V., Shokin A.G.</i> Estimation of the recovery time of the converted value from the probabilistic display. (Sevastopol State University, Sevastopol)
<i>Moiseev D.V., Shokin A.G.</i> Syndromic correction of a probabilistically represented discrete signal. (Sevastopol State University, Sevastopol)
<i>Polyakov A.A., Moiseev D.V.</i> Decision support system when considering structurally complex organizational, organizational and technical systems for various purposes. (The Admiral Nakhimov Higher Naval School <sup>1</sup> , Sevastopol)
<i>Shishkin Yu.E., Pelyushenko S.S., Mavrin A.S.</i> Application of the YOLOv5 model for the detection of micro-objects in the marine environment. (Institute of Natural and

Technical Systems, Sevastopol)
<i>Rudnev V.P.</i> The use of optical spectroscopy in the study of the environment influence on transparent thermoplastics. (Branch of Institute of Natural and Technical Systems, Sochi)
<i>Ryazanov V.A., Lekarev G.A.</i> Development and computer simulation of the flow around the primary transducers of the block of measuring channels of underwater vehicles. (Sevastopol State University, Sevastopol)
<i>Safonov V.A.<sup>1,2,3</sup>, Dologlonyan A.V.<sup>1</sup>, Zhilyaev S.A.<sup>3</sup>, Klimenko A.G.<sup>1</sup></i> Aerodynamic method of drying and threshing agricultural crops. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol, <sup>3</sup> Sevastopol Branch of the State Oceanographic Institute, Sevastopol)
<i>Safonov V.A.<sup>1,2,3</sup>, Dyakov N.N.<sup>1</sup>, Zhilyaev S.A.<sup>1</sup>, Belogudov A.A.<sup>1</sup></i> Energy from the marine environment. ( <sup>1</sup> Sevastopol branch of the State Oceanographic Institute, Sevastopol, <sup>2</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>3</sup> Sevastopol State University, Sevastopol)
<i>Safonov V.A.<sup>1,2,3</sup>; Zhilyaev S.A.<sup>3</sup>, Klimenko A.G.<sup>1</sup>, Onyshko A.A.<sup>1</sup></i> Improving the efficiency of wind farms when using additional rarefaction due to the condenser and atmospheric precipitation. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol, <sup>3</sup> Sevastopol branch of the State Oceanographic Institute, Sevastopol)
<i>Skatkov A.V., Bryukhovetsky A.A., Moiseev D.V., Sukharev N.V.</i> <i>Distributed strategy for detecting vulnerabilities of BTS swarm interfaces in 5G networks.</i> (Sevastopol State University, Sevastopol)
<i>Skatkov A.V., Doronina Yu.V., Moiseev D.V.</i> A method for constructing environmental control systems with a variable network topology structure of primary meters. (Sevastopol State University, Sevastopol)
<i>Skatkov A.V., Doronina Yu.V., Moiseev D.V.</i> Simulation of the primary meters state under stochastic initial conditions of differential models of artificial immune systems. (Sevastopol State University, Sevastopol)
<i>Stepanova O.A.<sup>1</sup>, Sholar S.A.<sup>1,2</sup>, Penkov M.N.<sup>1</sup></i> The influence of the electromagnetic field on the marine microbiota. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Marine Hydrophysical Institute, Sevastopol)
<i>Shapovalov O.Yu.</i> Use of radio modems in one-off oceanographic probes. (Institute of Natural and Technical Systems, Sevastopol)

## Section «Ecology of nature management»

### 11.45- 15.45 Oral presentations

<b>11. 45–12.00</b>	<i>Gartsman B.I., Moreido V.M., Gubareva T.S.</i> Organization of instrumental monitoring of power sources and flow formation mechanisms in the Crimean rivers. (Institute for Water Problems, Moscow)
<b>12.00– 12.15</b>	<i>Gabdrakhimova V.A., Shagidullin A.R., Musina A.A.</i> Assessment of the potential for the atmosphere self-purification. (Institute for Problems of Ecology and Subsoil Use Tatarstan Academy of Sciences, Kazan)
<b>12.15 –12.30</b>	<i>Ivanyutin N.M., Volkova N.E., Pikhtereva A.V.</i> Assessment of the ecological state for the watercourse Petrovskaya Balka. (Crimea Agriculture Research Institute, Simferopol)
<b>12.30 –12.45</b>	<i>Gladchuk A.S.<sup>1,2</sup>, Gorbunov A.Yu.<sup>3</sup>, Afanas'eva A.A.<sup>4</sup>, Viskov M.A.<sup>4</sup>, Ilyushonok S.K.<sup>3,5</sup>, Tomilin N.V.<sup>1</sup>, Krasnov K.A.<sup>1</sup>, Krasnov N.V.<sup>5</sup>, Babakov V.N.<sup>3</sup>, Podolskaya E.P.<sup>1,5</sup></i> Structure based on monolayers of lanthanum stearate as a material for extraction of halogen-containing protein adducts. ( <sup>1</sup> Scientific and clinical center of toxicology named after academician S.N. Golikov Federal Medical and Biological Agency, St. Petersburg, <sup>2</sup> Saint Petersburg State University, St. Petersburg, <sup>3</sup> Research Institute of Hygiene, Occupational Pathology and Human Ecology, St. Petersburg, <sup>4</sup> St. Petersburg State Technological Institute (Technical University), <sup>5</sup> St. Petersburg, Institute of Analytical Instrumentation, St. Petersburg)
<b>12.45-13.00</b>	<i>Melnikova M.V., Shustov E.B., Belskaya A.V., Bondarenko A.A., Shemaev M.E., Melekhova A.S., Vataeva A.A., Masterova K.V.</i> Development of the biomedical model of the combined effect of low doses of chemical and electromagnetic factors. (Scientific and clinical center of toxicology named after academician S.N. Golikov Federal Medical and Biological Agency, St. Petersburg)

### 13.00-13.45 Lunch break

<b>13.45–14.00</b>	<i>Nikishova V.D., Korotkova N.V.</i> Impact of inversions on atmospheric air pollution in Ufa. (Saratov National Research State University named after N.G. Chernyshevsky, Saratov)
<b>14.15–14.30</b>	<i>Novikov A.A.<sup>1,2</sup>, Kashirina E.S.<sup>2,3</sup></i> The concept of the "digital twin" of the city. World and domestic experience of implementation. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol Branch of Lomonosov Moscow State University, Sevastopol, <sup>3</sup> City Development Institute at Sevastopol State University, Sevastopol)
<b>14.30–14.45</b>	<i>Cherdakova A.S., Galchenko S.V.</i> Stimulating effect of humic preparations in microbioremediation of oil-contaminated soils. (Ryazan State University named for S. Yesenin, Ryazan)
<b>14.45–15.00</b>	<i>Lei V.A., Nikishin V.V., Khomenko T.Yu.</i> Features of the organization of monitoring of the hydrochemical state of the water of the Black River. (Sevastopol State University, Sevastopol)
<b>15.15 –15.30</b>	<i>Sosnovsky Yu.V.</i> Formalization of requirements for the construction of distributed monitoring systems. (Institute of Physics and Technology (structural subdivision) at Vernadsky Crimean Federal University, Simferopol)
<b>15.30 –15.45</b>	<i>Khalikov I.S.</i> Assessment of the seasonal profile of benzo(a)pyrene in the atmospheric air at the posts of the state observation network in Krasnoyarsk. (Scientific and Production Association "Typhoon", Obninsk)

### 15.45 – 17.15 Coffee break and free time

#### 15.45–17.15 Poster session of the section «Ecology of nature management»

<i>Li Jingwen.</i> A Study on the Methods of Environmental Research. (Dalian Ocean University, Dalian, China)
<i>Kun Xing.</i> Recruitment and colonization of macroalgae to the rocky shore by ocean warming. (College of Marine Technology and Environment, Dalian Ocean University, Dalian, China)
<i>Agarkova-Lyakh I.V.<sup>1,2</sup>, Frolova K.V.<sup>2</sup></i> Analysis of coastal vegetation adaptations to living conditions in the Land-Sea contact zone. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> Sevastopol State University, Sevastopol)



<i>Akynzhanov T.B.</i> Identification of the urban outskirts based on the entropy of land use for the ecological zoning. (Lomonosov Moscow State University)
<i>Andreeva N.A.<sup>1</sup>, Snarskaya D.D.<sup>2</sup></i> Phytobenthos cyanobacteria of the Crimean coastal waters. ( <sup>1</sup> Institute of Natural and Technical Systems, Sevastopol, <sup>2</sup> St. Petersburg State University, St. Petersburg)
<i>Boyko N.G., Dunaeva E.A.</i> Influence of the light absorption spectrum on the growth and development of barley during laboratory experiments. (Crimea Agriculture Research Institute, Simferopol)
<i>Gladchuk A.S.<sup>1,2</sup>, Ivanova D.N.<sup>3</sup>, Babenko D.I.<sup>3</sup>, Gaft S.S.<sup>1</sup>, Aleksandrova M.L.<sup>1</sup>, Sukhodolov N.G.<sup>2,4</sup>, Podolskaya E.P.<sup>1,4</sup></i> Analysis of lipophilic hydroxyl-containing natural compounds using Langmuir technology. ( <sup>1</sup> Scientific and clinical center of toxicology named after academician S.N. Golikov Federal Medical and Biological Agency, St. Petersburg, <sup>2</sup> Saint Petersburg State University, St. Petersburg, <sup>3</sup> St. Petersburg State Technological Institute (Technical University), <sup>4</sup> St. Petersburg, Institute of Analytical Instrumentation, St. Petersburg)
<i>Gubareva T.S.<sup>1,2</sup>, Lupakov S.Yu.<sup>2</sup>, Shamov V.V.<sup>2</sup>, Gartsman B.I.<sup>1,2</sup></i> Measurement of stem sap flow in the framework of hydrological monitoring of a river basin in southern Primorye. ( <sup>1</sup> Institute for Water Problems, Moscow, <sup>2</sup> Pacific Institute of Geography FEB RAS"2, Vladivostok, Russia)
<i>Gorbunova T.L.<sup>1</sup>, Matova N.I.<sup>1</sup>, Babich V.R.<sup>2</sup></i> Development of DBMS for bioindicator parameters of the state of the natural watercourses hydrobiocenoses. ( <sup>1</sup> Branch of Institute of Natural and Technical Systems, Sochi, <sup>2</sup> Sochi Branch of Peoples' Friendship University of Russia)
<i>Erkushov V.Yu., Shibaeva S.A., Dyakov N.N.</i> The content of heavy metals in the waters of the Sevastopol District and the Crimea surface waters in 2021 - 2022 (Sevastopol branch of the State Oceanographic Institute, Sevastopol)
<i>Zhuravsky V.Yu., Trusevich V.V.</i> Behavioral responses of freshwater mollusks <i>Perlovitsa</i> to oil pollution under experimental conditions. (Institute of Natural and Technical Systems, Sevastopol)
<i>Zadkova A.G., Smirnova E.A.</i> An integrated approach to the program of monitoring of technogenic formations. (LLC «SamaraNIPIneft», Samara)
<i>Kazankova I.I.</i> Depth distribution of mussel postlarvae I, mititlyaster, and anadara on control substrates in the coastal waters of the southern and southwestern Crimea. (Institute of Natural and Technical Systems, Sevastopol)
<i>Kazankova I.I., Shlyk A.V., Klimenko A.V.</i> Late spring settling of mussels in the coastal waters of Sevastopol in 2022 as a moment in monitoring of the replenishment of its population and the state of the environment. (Institute of Natural and Technical Systems, Sevastopol)
<i>Kazankova I.I.</i> Behavior of larvae and postlarvae of mussel, mytilaster and <i>Anadara</i> on control substrates with a fleecy surface. (Institute of Natural and Technical Systems, Sevastopol)

<i>Kryzhko A.V.<sup>1,2</sup>, Didovich S.V.<sup>1,2</sup></i> Peculiarities of cultivation of agronomically useful bacteria in suspension of acrylate hydrogels. ( <sup>1</sup> Sevastopol State University, Sevastopol, <sup>2</sup> Research Institute of Agriculture of the Crimea, Simferopol)
<i>Musina A.A., Shagidullin A.R., Gabdrakhimova V.A.</i> Evaluation of air quality in Kazan according to the data of automatic monitoring stations. (Institute for Problems of Ecology and Subsoil Use Tatarstan Academy of Sciences, Kazan)
<i>Nikolaev D.O., Mukharamova S.S.</i> Estimation of potential soil erosion losses during the melt runoff period for the European territory of Russia. (Institute of Ecology and Nature Management at Kazan Federal University, Kazan)
<i>Oleinik A.Yu.</i> Changes in performance characteristics of modified glass-reinforced plastics in marine atmosphere. (Institute of Natural and Technical Systems, Sevastopol)
<i>Onyshko A.A.</i> Analysis of existing methods of feasibility study of hybrid installations and RES. (Institute of Natural and Technical Systems, Sevastopol)
<i>Petrenko A.E.</i> Implementation of a system to intensify rice exports to developing countries. (Sevastopol Branch of Lomonosov Moscow State University, Sevastopol)
<i>Podovalova S. V., Manzhos A. A., Volkova N. E.</i> Selection of representative indicators for assessing irrigation water quality. (Crimea Agriculture Research Institute, Simferopol)
<i>Sazonov A.D.</i> The surface hydrochemical runoff dynamics of copper and zinc compounds in the river Bystraya basin (Rostov region). (Institute of Earth Sciences at Southern Federal University, Rostov-on-Don)
<i>Samoilov S.Yu., Evstigneev V.P.</i> Justification and prospects for the development of an adaptive system for climate monitoring of the coastal area environment. (Sevastopol State University, Sevastopol)
<i>Sidorov S.M.</i> Forecasting and evaluation of the dynamics of an autonomous wind-diesel complex based on its hidden Markov model. (Institute of Natural and Technical Systems, Sevastopol)
<i>Sizova O.S., Smirnova L.L.</i> Ecology of periphyton microorganisms on antifouling coatings in the coastal waters of the southwestern Crimea. (Institute of Natural and Technical Systems, Sevastopol)
<i>Stetsyuk A.P.</i> The relevance of studying the distribution of mercury in the Crimean Peninsula waters. (FGBUN FRC "Institute of Biology of the Southern Seas named after A.O. Kovalevsky RAS")
<i>Turina E.L.<sup>1,2</sup>, Kornev A.Yu.<sup>2</sup></i> Productivity of varieties and biofuel synthesis from <i>Carthamus tinctorius</i> in Crimea ( <sup>1</sup> Crimea Agriculture Scientific Research Institute, Simferopol, <sup>2</sup> All-Russian Research Institute for the Use of Machinery and Oil Products in Agriculture, Tambov)
<i>Rychkova A.A.<sup>1,2</sup>, Gromov S.A.<sup>1,3</sup></i> Analysis of trends in changes in the content of substances in surface waters of rivers at EANET stations for 2007-2021. ( <sup>1</sup> Institute of Global Climate and Ecology named after Academician Yu.A. Israel, Moscow, <sup>2</sup> Russian Chemical-Technological University named after D.I. Mendeleev, Moscow, <sup>3</sup> Institute of Geography, Moscow)

<i>Yunchik Yu.A.</i> Agroecological mapping as a way to improve the management of agricultural land. (Crimea Agriculture Research Institute, Simferopol)	
<b>17.45-18.30</b>	Discussion. Adoption of a resolution

### **November 11 (Friday)**

<b>10.00–12.00</b>	Round table discussions (Konstantinovskaya battery)
<b>12.00–15.00</b>	Excursion to historical places of Sevastopol.
<b>15.00–24.00</b>	Departure of the conference participants

**For notes**