VULNECOAST

ORGANIZERS:

Ministry of Science and Higher Education of the Russian Federation
Russian Academy of Sciences
A. O. Kovalevsky Institute of Biology of the Southern Seas of RAS
Federal University of Rio de Janeiro
Durban University of Technology
Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences

The conference is organized with financial support from the Ministry of Science and Higher Education of the Russian Federation under grant № 075-15-2024-657: «**Assessment of vulnerability of coastal ecosystems in the tropical zone to climate change for the purpose of adapting of governance nature management» (VULNECOAST)**.

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VULNECOAST

SECTIONS

- Climate Change and its Impact on Coastal Ecosystems
- Vulnerability and Risk Assessment of Coastal Territories
- Innovative Adaptation Strategies and Solutions
- Natural Resource Management and Adaptation Policy
- Digital Technologies and Artificial Intelligence in Coastal Zone Adaptation

The conference will be held in a mixed format at Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences
Address: 2/28 Jan Fabricius str., Sochi, Russia
Remote participation will be conducted using the Yandex Telemost platform

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International Scientific Conference
«ADAPTATION STRATEGIES FOR COASTAL TERRITORIES IN THE AGE OF CLIMATE CHANGE»

August 26, 2026	
Arrival of participants, check-in, free time	
August 27, 2026	
09.00 – 10.00	Registration
10.00 – 10.20	Conference Opening
10.20 – 11.30	Plenary Session
11.30 – 12.00	Coffee Break
12.00 – 13.00	Section Meetings
13.00 – 15.00	Lunch
15.00 – 17.20	Section Meetings
18.00 – 19.00	Welcome drinks
August 28, 2026	
10.00 – 11.30	Section Meetings
11.30 – 12.00	Coffee Break
12.00 – 13.40	Section Meetings
13.40 – 13.50	Conference Closing

VULNECOAST

August 27, 2026, Thursday

Time	Author(s), organization, title of the report
Conference Opening	
10.00-10.20	**Welcome speech:** **Alexey Ryndin,** Academician of the Russian Academy of Sciences, Professor, Subtropical Scientific Center of the Russian Academy of Sciences, Sochi, Russia **Georgy Cherny,** A. O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia **Fábio Luiz Peres Krykhtine**, Doctor of Science, Professor, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil **Maliga Reddy,** Ph.D., Professor, Durban University of Technology, South Africa **Bagrat Yeremyan,** Deputy Director of the Department for Environmental Protection, Forestry, Agriculture, and Industry of the Sochi City Administration **Andrey Bukhinnik,** Head of the Department for Industry, Natural Resource Management, and Agriculture of the Tuapse municipal District Administration
Plenary Session **Session Co-Chair: Tatiana Gorbunova, Maliga Reddy**	
10.20-10.35	**Tatiana Gorbunova[1], Fábio Luiz Peres Krykhtine[2], Maliga Reddy[3], Ekaterina Kashirina[1], Nastasya Lineva[1], Roman Gorbunov[1,4], Svetlana Krasheninnikova[1], Ilya Serykh[4], Vladimir Tabunshchik[1], Mariia Safonova[1], Veronika Voitsekhovskaya[1], Osvaldo Moura Rezende[5,6], Francis Miranda[5], Joseph Akpan[3], Oluyomi Ajayi[7], Paul Musonge[8], Felix Mora-Camino[3], Oludolapo Akanni Olanrewaju[3]** (*[1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Russia; [2] Escola Politécnica, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; [3]Durban Technological University; [4]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [5]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [6]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ); [7]Izovutha, Durban, South Africa; [8]Mangosuthu University of Technology, Durban, South Africa)* **Project Outcomes: "Assessment of Coastal Tropical Ecosystem Vulnerability to Climate Change for Adaptation of Natural Resource Management" under the 6th BRICS STI Framework Program (2024–2026)" / Результаты работы над проектом «Оценка уязвимости прибрежных экосистем тропической зоны к изменению климата с целью адаптации управления природопользованием» в рамках 6-ой Рамочной Программы BRICS STI 2024-2026 гг.** (in-person)
10.35-10.55	**Fábio Luiz Peres Krykhtine[1], Felix Mora-Camino[2], Tatiana Gorbunova[3], Roman Gorbunov[3,4], Osvaldo Moura Rezende[5,6], Oludolapo Akanni Olanrewaju[2], Nastasia Lineva[3]** *([1]Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; [2]Durban University of Technology, Durban, South Africa; [3]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Russia; [4]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [5]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [6]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ)*

	Dynamic Multi-Hazard Framework for Coastal Risk Assessment / Динамическая многофакторная модель оценки рисков для прибрежных районов (in-person)
10.55-11.15	**Natalia Yaitskaya** *(Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia)* **Erosion processes in the Azov-Black Sea region / Исследование абразионно-оползневых процессов на территории Азово-Черноморского региона** (in-person)
11.15-11.35	**Zagir Ataev**[1,2] *([1]Dagestan State University; [2]Dagestan Federal Research Center of the Russian Academy of Sciences, Dagestan, Russia)* **Spatiotemporal dynamics of Dagestan's Caspian coastal landscapes under climate change and sea-level regression: from monitoring to adaptation / Пространственно-временная динамика приморских ландшафтов Дагестана в условиях климатических изменений и регрессии Каспийского моря: от мониторинга к адаптации** (online)
11.35-12.00	**Coffee break**
Session 1: Climate Change and its Impact on Coastal Ecosystems **Session Co-Chair: Fábio Luiz Peres Krykhtine, Ekaterina Kashirina**	
12.00-12.10	**Mikael Arakelov**[1], **Asida Akhsalba**[2], **Sofia Marandidi**[2] *([1]Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia, [2]Institute of Ecology of the Academy of Sciences of Abkhazia, Sukhum, Abkhazia)* **Aerosol component of the atmospheric boundary layer of the Republic of Abkhazia based on satellite data /Аэрозольная составляющая приводного слоя атмосферы Республики Абхазия по данным спутниковой информации** (in-person)
12.10-12.20	**Elena Vyshkvarkova**[1], **Polina Drygval**[1], **Roman Gorbunov**[1,2] *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia)* **Observed And Projected Climate Extremes in Guinea: Temperature and Precipitation Dynamics / Динамика климата в Гвинее в условиях глобального потепления: анализ экстремальных температур воздуха и осадков** (online)
12.20-12.30	**Roman Dbar**[1,2], **Paata Gamakhariya**[1] *([1]Institute of Ecology of the Academy of Sciences of Abkhazia, Sukhum, Abkhazia; [2]Azov–Black Sea Branch of the Federal State Budgetary Scientific Institution "VNIRO" ("AzNIIRKH"), Rostov-on-Don, Russia)* **Impact of climate change on population structure and bioproductivity of wintering aggregations of the European anchovy (Engraulis encrasicolus l.) in the coastal ecosystem of the Black Sea / Влияние изменения климата на популяционную структуру и биопродуктивность зимующих скоплений европейского анчоуса (Engraulis encrasicolus l.) в прибрежных экосистемах Черного моря** (online)
12.30-12.40	**Anna Drygval**[1,2], **Polina Drygval**[1,2,3] *([1]T.I. Vyazemsky Karadag Scientific Station –Nature Reserve of RAS –Branch of A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Feodosia, Kurortnoye, Russia; [2]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [3]FSE RTC RCSH, Moscow, Russia)*

	Assessment of Ozone (O_3) Content in the Atmospheric Air of the Southern Coast of Crimea During 2019–2025 / Оценка содержания озона (O_3) в атмосферном воздухе Южного берега Крыма в период 2019–2025 гг (online)
12.40-12.50	**Svetlana Krasheninnikova[1], Ilya Serykh[2], Tatiana Gorbunova[1], Roman Gorbunov[1,2], Mariia Safonova[1], Fabio L. P. Krykhtine[3], Osvaldo M. Rezende[4,] J. Akpan[5], O. Ajayi[6], M. Reddy [6], P. Musonge [7], F. Mora-Camino [6], O.A. Olanrewaju [6]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [3] Escola Politécnica, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; [4]Programa de Engenharia Ambiental, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; [5]Durban University of Technology, Durban, South Africa; [6]Izovutha, Durban, South Africa; [7]Mangosuthu University of Technology, Durban, South Africa* **Long-term Temperature Trends (1940–2099) in the Azov-Black Sea, Brazilian, and South African Regions: Evidence from Weather stations, Reanalyses, and CMIP6 Simulations / *Изменения температуры Азово-Черноморского, Бразильского и Южно-Африканского регионов по данным метеостанций, реанализам и моделям CMIP6 за период 1940-2099 гг.*** (online)
12.50-13.00	**Viktor Kryuchkov** *(Astrakhan State Technical University, Astrakhan, Russia)* **The influence of climatic changes on the gametogenesis of some semi-migratory fish of the Volga Delta / Влияние климатических изменений на гаметогенез некоторых полупроходных рыб дельты Волги** (online)
13.00-15.00	**Lunch**
15.00-15.10	**Elena Rogozhina[1], Naumova Ekaterina [1], Semenova Ekaterina [2], Sokolova Diyana [2], Ryndin Alexey.[1]** *([1]Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia, Winogradsky Institute of Microbiology, Research Centre of Biotechnology, Russian Academy of Sciences, Moscow, Russian Federation)* **Microbiome of the oil biofilm and a model of natural degradation in the Black Sea following an M100 fuel spill in December 2024 / Микробиом биопленки мазута и модель природной деструкции в Черном море после разлива топлива М100 в декабре 2024 года.** (in-person)
15.10-15.20	**Cam Nhung Pham[1], Vladimir Lapchenko[2], Tatiana Gorbunova[1], Vladimir Tabulchik[1] and Nikolai Bratanov[1]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]T.I. Vyazemsky Karadag Scientific Station – Nature Reserve of RAS – Branch of A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Feodosia, Russia)* **The role of tree canopy in changing the chemical composition of atmospheric precipitation: A case study of oak and ash forest in the Karadag Nature Reserve (Crimea) / Роль древесного полога в изменении химического состава атмосферных осадков на примере дубово-ясеневого леса Карадагского природного заповедника (Крым)** (online)
15.20-15.30	**Aleksey Shushpanov[1,2], Valentina Fateryga[1], Olga Parubets [1,2]** *([1]T.I. Vyazemsky Karadag Scientific Station – Nature Reserve of RAS – Branch of A.O. Kovalevsky Institute of Biology of*

	the Southern Seas of RAS, Feodosia, Kurortnoye, Russia; [2]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia) **Influence of climate factors on the content of biogenic elements in plants of the «Karadag Nature Reserve» / Влияние климатических факторов на содержание биогенных элементов в растениях «Карадагского природного заповедника»** (online)
15.30-15.40	**Sergey Piontkovski** *(Sevastopol State University, Sevastopol, Russia)* **Interannual Variability of Coastal Upwelling Communities in the Twenty-First Century /** ***Межгодовая изменчивость сообществ прибрежных апвеллингов в XXI веке*** (online)
Session 2: Vulnerability and Risk Assessment of Coastal Territories Session 3: Innovative Adaptation Strategies and Solutions Session Co-Chair: Osvaldo Moura Rezende, Tatiana Gorbunova	
15.40-15.50	**Renat Lomia[1,2], Kristina Lazunina[1]** *([1]Institute of Ecology of the Academy of Sciences of Abkhazia, Sukhum, Abkhazia; [2]Abkhazian State University, Sukhum, Abkhazia)* **Geoinformation Modeling and Topographic Surveying for Drainage System Design in Coastal Park Landscapes Based on Smetskoy Park in Agudzera, Republic of Abkhazia / Геоинформационное моделирование и топографическая съемка для проектирования дренажных систем в ландшафтах прибрежных парков, на примере парка Смецкого в пгт Агудзера, Республика Абхазия** (in-person)
15.50-16.00	**Yurchenko Elena** *(Sochi State University, Sochi, Russia)* **Engineering and infrastructural solutions for adaptation, integrated with measures to reduce anthropogenic impact and counteract the consequences of climate change/ Инженерные и инфраструктурные решения для адаптации, интегрированные с мерами по снижению антропогенного воздействия и противодействию последствиям изменения климата.** (in-person)
16.00-16.10	**Raphaela Bertolotti[1], Francis Miranda[2], Anna Beatriz Sathler[3], Maria Luiza Rodrigues[2], Gustavo Spiegelberg[1], Fernanda Achete[1], Fábio Luiz Krykhtine[4], Osvaldo Moura Rezende[2,5]** *([1]Programa de Engenharia Naval e Oceânica, Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa, Universidade Federal do Rio de Janeiro (PENO-COPPE/UFRJ), Rio de Janeiro, Brazil; [2]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [3]Núcleo Interdisciplinar para o Desenvolvimento Social, Universidade Federal do Rio de Janeiro (NIDES/UFRJ); [4]Programa de Engenharia de Produção, Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa, Universidade Federal do Rio de Janeiro (PEP-COPPE/UFRJ), Rio de Janeiro, Brazil; [5]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ), Rio de Janeiro, Brazil)* **Coastal Exposure Assessment of Rio de Janeiro, Brazil, and the Western Cape, South Africa Using the InVEST Coastal Vulnerability Model / Оценка уязвимости прибрежных районов Рио-де-Жанейро (Бразилия) и Западно-Капской провинции (Южная Африка) с использованием модели прибрежной уязвимости InVEST** (online)
16.10-16.20	**Anna Beatriz Sathler[1], Maria Luisa Rodrigues Lado[2], Raphaela Bertolotti[3], Francis Miranda[2], Fábio Luiz Krykhtine[4], Osvaldo Moura Rezende[2,5]** *([1]Núcleo Interdisciplinar para o Desenvolvimento Social, Universidade Federal do Rio de Janeiro (NIDES/UFRJ);*

	[2]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [3]Programa de Engenharia Naval e Oceânica, Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa, Universidade Federal do Rio de Janeiro (PENO-COPPE/UFRJ), Rio de Janeiro, Brazil; [4]Programa de Engenharia de Produção, Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa, Universidade Federal do Rio de Janeiro (PEP-COPPE/UFRJ), Rio de Janeiro, Brazil; [5]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ), Rio de Janeiro, Brazil) **Integrating Flood Susceptibility, Socioeconomic Vulnerability, and Critical Infrastructure for Potential Flood Risk Mapping / Интеграция данных о подверженности наводнениям, социально-экономической уязвимости и критической инфраструктуре для картирования потенциального риска наводнений** (online)
16.20-16.30	**Yesenia Vaskova** *(SHANECO Design Institute, Moscow, Russia)* **Integral assessment of reservoir stability / Интегральная оценка устойчивости водохранилищ** (online)
16.30-16.40	**Viktor Vakhoneev[1], Sergey Solovyov[1,2]** *([1]Institute for the History of Material Culture, Russian Academy of Sciences, St Petersburg, Russia; [2]State Hermitage Museum, St Petersburg, Russia)* **The Submerged Ancient Settlement of Akra in Eastern Crimea as an Indicator of Shoreline Change and Coastal Vulnerability / Затопленное городище Акра в Восточном Крыму как индикатор изменения береговой линии и уязвимости прибрежной территории** (online)
16.40-16.50	**Natalya Gusar[1], Daria Ignatyeva[1], Yakov Alekseev[2,6], Roman Gorbunov[1,3], Tatiana Gorbunova[1], Anton Pushkin[1,2,6], Milena Babich[1], Anastasia Gushchina[7], Andrey Kuznetsov[4,5], Svetlana Kuznetsova[4,5]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Sintol LLC, Moscow, Russia; [3]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [4]Joint Russian-Vietnamese Tropical Research and Technology Center, Hanoi, Vietnam; [5]A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, Russia; [6]Institute for Analytical Instrumentation of the Russian Academy of Sciences, Saint Petersburg, Russia; [7]ITMO University, Saint Petersburg, Russia)* **Assessment of Soil Microbial Diversity and Potential Biological Risks in Vietnam's National Parks / Оценка микробного разнообразия и потенциальных биологических рисков в почвах национальных парков Вьетнама** (online)
16.50-17.00	**Osvaldo Rezende[1,2], Francis Miranda[1], Maria Luisa Rodrigues[1], Fábio Luiz Krykhtine[3], Tatiana Gorbunova[4], Nastasia Lineva[4], Roman Gorbunov[4], Ekaterina Kashirina[4]** *([1]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [2]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ); [3]Programa de Engenharia de Produção, Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa, Universidade Federal do Rio de Janeiro (PEP-COPPE/UFRJ), Rio de Janeiro, Brazil; [4]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia*

	A Multicriteria Approach for Flood Propensity Mapping Based on Physical, Environmental, and Anthropogenic Factors / (in-person)
17.00-17.10	**Polina Drygval[1,2,3], Anna Drygval[1,2]** *([1]T.I. Vyazemsky Karadag Scientific Station –Nature Reserve of RAS –Branch of A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Feodosia, Kurortnoye, Russia; [2]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [3]FSE RTC RCSH, Moscow, Russia)* **Patterns of Heavy Metal Distribution in Soils of a Coastal Specially Protected Natural Area (Karadag Nature Reserve) / Закономерности распределения тяжелых металлов в почвах прибрежного ООПТ (Карадагского природного заповедника)** (online)
17.10-17.20	**Vyacheslav Zaitsev[1], Vladimir Chaplygin[1], Tatiana Ershova[1], Natalya Shaboyants[2]** *([1]Astrakhan State Technical University, Astrakhan, Russia; [2]Astrakhan State Medical University of the Ministry of Health of the Russian Federation, Astrakhan, Russia)* **Assessment of the ecosystem state in the region of the International North-South Transport Corridor in the Caspian Sea / Оценка состояния экосистемы в районе международного транспортного коридора «Север-Юг» Каспийского моря** (online)
18.00-19.00	**Welcome drinks**

August 28, 2026, Friday

Time	Author(s), organization, title of the report
	Session 2: Vulnerability and Risk Assessment of Coastal Territories **Session Chair: Fábio Luiz Peres Krykhtine, Tatiana Gorbunova**
10.00-10.10	**Daria Ignatyeva[1], Tatiana Gorbunova[1], Ibrahima Keita[3], Roman Gorbunov[1,2], Yakov Alekseev[4,5], Nikolay Bratanov[1], Yulia Monakhova[4], Alexey Shvartsev[4], Maria Mikhailycheva[4], Andrey Faerman[1], Maria Kiseleva[3], Diallo Alpha Issaga Pallé[2]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [3]Marine and Coastal Research Centre of Guinea (CEREMAC-G), Conakry, Republic of Guinea; [4]Sintol LLC, Moscow, Russia; [5]Institute for Analytical Instrumentation of the Russian Academy of Sciences, Saint Petersburg, Russia)* **Assessment of Pyrogenic Impact on Soil Microbial Communities in the Fatala River Basin (Republic of Guinea) / Оценка пирогенного воздействия на микробные сообщества почв бассейна реки Фатала (Гвинейская Республика)** (online)
10.10-10.20	**Ekaterina Kashirina[1], Roman Gorbunov[2], Tatiana Gorbunov[1], Polyna Drygval[1], Nastasya Lineva[1], Cam Nhung Pham[1], Andrey Kuznetsov[3,4], Svetlana Kuznetsova[3,4], Nguyen Dang Hoi[3], Dinh Vu Anh Tu[3], Ngo Trung Dung[3], Ngo Thanh Dat[3]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology of Russian Academy of Sciences, Moscow, Russia; [3]Joint Russian-Vietnamese Tropical Research and Technology Center, Hanoi, Vietnam; [4] A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, Russia)*

	Geochemical State of the Soils in the Dong Nai Biosphere Reserve (South Vietnam) / Геохимическое состояние почв биосферного заповедника Донгнай (Южный Вьетнам) (in-person)
10.20-10.30	**Aleksander Manko, Vladislav Golovin** *(Sevastopol State University, Sevastopol, Russia)* **Monitoring of Coastal Oil Spill Using Microwave Photonic MIMO RADAR / Мониторинг нефтяных загрязнений прибрежных акваторий на основе радиофотонных радиолокационных станций MIMO** (online)
10.30-10.40	**Nikolay Bratanov[1], Roman Gorbunov[1,2], Tatiana Gorbunova[1], Vladimir Tabunshchik[1], Cam Nhung Pham[1], Andrey Faerman[1], Maria Kiseleva[1,2], Ibragima Keita[3], Diallo Alpha Issaga Pallé [3]** *[1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [3]Marine and Coastal Research Centre of Guinea (CEREMAC-G), Conakry, Republic of Guinea)* **Assessment of the spatial and temporal variability of the NDVI vegetation index under slash-and-burn agriculture conditions in the Fata River basin (West Africa, Republic of Guinea) / Оценка пространственной временной изменчивости вегетационного индекса NDVI в условиях подсечно-огневого земледелия бассейна р. Фатала (Западная Африка, Гвинейская Республика)** (in-person)
10.40-10.50	**Elena Minakova, Anatoliy Shlychkov, Sergey Kondratiev, Venera Latypova, A. Kustova** *(Kazan Federal University)* **Coastal areas as a repository of biogenic elements in a river catchment / Прибрежные территории как депо биогенных элементов речного водосбора** (online)
10.50-11.00	**Nastasia Lineva[1], Ekaterina Kashirina[1], Vladimir Tabunshchik[1], Roman Gorbunov[1,2], Tatiana Gorbunova[1]** *([1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia)* **Assessment of Potential Soil Erosion in Coastal Areas Using the RUSLE Model and GIS / Оценка потенциальной эрозии почв в прибрежных районах с использованием модели RUSLE и ГИС** (in-person)
11.00-11.10	**Ekaterina Naumova[1], Lalita Zakharikhina[1], Tatiana Gorbunova[1], Alexey Ryndin[1], Olga Bykhalova[2]** *([1]Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia; [2]Federal State Budgetary Institution "Utrish State Nature Reserve", Anapa, Russia)* **Comparison of the Indicator Response of Macroalgae to Chronic and Accidental Pollution of the Northeastern Black Sea / Сравнение индикаторной реакции макроводорослей на хроническое и аварийное загрязнение северо-восточной части Черного моря** (in-person)
11.00-11.10	**Aleksandra Nikifirova, Vladimir Tabunshchik** *(A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia)* **Assessment of the contribution of ecosystem services that form the environment to reducing natural risks in coastal areas / Оценка вклада средообразующих экосистемных услуг в снижение природных рисков прибрежных территорий**

	(online)
11.10-11.20	**Daria Polishchuk, Svetlana Omelchenko** *(V.I. Vernadsky Crimean Federal University, Simferopol, Russia)* **Assessment of the Potential Risk of Brucellosis Spread in the Republic of Crimea in the Context of Climate Change / Оценка потенциального риска распространения бруцеллёза в Республике Крым в условиях климатических изменений** (online)
11.20-11.30	**Yulia Popova, Oksana Klimanova** *(Lomonosov Moscow State University, Moscow, Russia)* **Spatial analysis of the risk of plastic pollution in the coastal zones of Russia's southern seas (using the Black Sea and the Sea of Azov as examples) / Пространственный анализ риска пластикового загрязнения прибрежных зон южных морей России (на примере Чёрного и Азовского морей)** (online)
11.30-12.00	**Coffee break**
12.00-12.10	**Pham Cam Nhung, Valeriia Ulanova, Valeriia Sek** (*A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia)* **Background Concentrations of Lead in Soils of the Karadag Nature Reserve as a Reference for Assessing Anthropogenic Load on the Southern Coast of Crimea / Фоновые концентрации свинца в почвах Карадагского заповедника как эталон для оценки антропогенной нагрузки на ЮБК** (online)
12.10-12.20	**Andrey Bukatov[1], Viktor Vakhoneev[1,2], Vladimir Glazunov[1], Evgeny Zadorozhny-Remarchuk[1]** (*[1]State Historical and Archaeological Museum-Preserve "Tauric Chersonesos", Sevastopol, Russia; [2]Institute for the History of Material Culture, Russian Academy of Sciences, St Petersburg, Russia*) **Interdisciplinary Approach and Monitoring of Coastal Archaeological Sites: the Case of Tauric Chersonesos / Междисциплинарный подход и мониторинг состояния прибрежных археологических памятников на примере Херсонеса Таврического** (online)
12.20-12.30	**Tatiana Gorbunova[1], Ekaterina Kashirina[1], Nastasya Lineva[1], Vladimir Tabunshchik[1], Roman Gorbunov[1,2], Veronika Voitsekhovskaya[1], Fabio L. P. Krykhtine[3], Osvaldo M. Rezende[4], Maliga Reddy [6], O.A. Olanrewaju [6]** (*[1]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia; [2]Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; [3] Escola Politécnica, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; [4]Programa de Engenharia Ambiental, Escola Politécnica e Escola de Química, Universidade Federal do Rio de Janeiro (PEA-POLI&EQ/UFRJ), Rio de Janeiro, Brazil; [5]Mestrado Profissional em Arquitetura Paisagística, Faculdade de Arquitetura e Urbanismo, Universidade Federal do Rio de Janeiro (MPAP-FAU/UFRJ) [6]Durban University of Technology, Durban, South Africa)* **Drivers of land cover dynamics in coastal ecosystems: Case studies from Russia, Brazil, and South Africa / Влияние различных факторов на динамику наземного покрова прибрежных экосистем (на примере ключевых участков в России, Бразилии и ЮАР)** (in-person)

Session 4: Natural Resource Management and Adaptation Policy Session 5: Digital Technologies and Artificial Intelligence in Coastal Zone Adaptation Session Chair: Osvaldo Moura Rezende, Ekaterina Kashirina	
12.30-12.40	**Zagir Ataev**[1,2,3] *([1]Dagestan State University, [2]Dagestan Federal Research Center of the Russian Academy of Sciences, [3] Dagestan State Pedagogical University named after R. Gamzatov.)* **From Mountain Catchments to the Caspian Coast: A Catchment-to-Coast Approach to Adaptive Landscape Management in the Northeastern Caucasus under Climate-Related Risks / От горных водосборов к Каспийскому побережью: бассейново-приморский подход к адаптивному управлению ландшафтами Северо-Восточного Кавказа в условиях климатических рисков** (online)
12.40-12.50	**Alexey Dyakonov** *(Institute for Regional Spatial Development, Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia; Sochi State University, Sochi, Russia)* **An Organizational and Economic Mechanism for Adapting Hydromineral Resource Use to Climate Risks in Coastal Resort Territories: The Case of Greater Sochi / Организационно-экономический механизм адаптации использования гидроминеральных ресурсов к климатическим риском на прибрежных территориях: опыт большого Сочи** (in-person)
12.50-13.00	**Igor Aleksashkin**[1,2], **Victoria Dubas**[2,3], **Yelizaveta Plaskalnaya**[1,2] *([1]V.I. Vernadsky Crimean Federal University named after, Simferopol, Russia; [2]T.I. Vyazemsky Karadag Scientific Station - Nature Reserve of RAS –Branch of A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Feodosia, Kurortnoye, Russia)* *[3]A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia)* **Modeling the spatiotemporal distribution of carbon fluxes in the atmosphere–petrophytic steppe system under the conditions of the Karadag State Nature Reserve / Моделирование процессов пространственно-временного распределения потоков углерода в системе "атмосфера-петрофитная степь" в условиях Карадагского природного заповедника** (online)
13:00-13.10	**Anatolii Voitkov**[1], **Anna Litvinenko**[1,2] *([1]Institute of Marine Geology and Geophysics, Far East Branch of the Russian Academy of Sciences, Yuzhno-Sakhalinsk, Russia; [2]Sakhalin State University, Yuzhno-Sakhalinsk, Russia)* **SalmonGeo: A WebGIS Platform for Spatial Monitoring of Trace Elements in Pacific Salmon for Geoecological Assessment of Coastal Ecosystems / SalmonGeo: WebGIS-платформа пространственного мониторинга микроэлементов в тихоокеанских лососях для геоэкологической оценки прибрежных экосистем** (online)
13:10-13.20	**Victor Zanozin**[1,2], **Valery Zanozin**[1], **Maria Lasareva**[1] *([1]Astrakhan Tatishchev State University, Astrakhan, Russia; [2]Astrakhan Nature Reserve, Astrakhan, Russia)* **Geoinformation Modeling of the Morphological Structure and Landscape Diversity of the Volga Delta / Геоинформационное моделирование морфологической структуры и ландшафтного разнообразия дельты Волги** (online)

13:20-13.30	**Natalia Rubanova, Svetlana Mishulina** *(Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences, Sochi, Russia)* **The blue-green infrastructure as a platform for aligning stakeholder adaptation strategies under climate and human induced risks / Сине-зеленая инфраструктура как основа для координации стратегий адаптации заинтересованных сторон к климатическим и антропогенным рискам** (in-person)
13.30-13.40	**Vladimir Tabunshchik** *(A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS, Sevastopol, Russia)* **Using Google Earth Engine and R! for Geoecological Assessment / Использование платформы облачных вычислений Google Earth Engine и языка программирования R! для проведения геоэкологической оценки** (online)
13.40-13.50	**Conference Closing**