



X International Antarctic Conference
dedicated to the 25th Anniversary of raising of the
National Flag of Ukraine at Ukrainian Antarctic
Академік Вернадський station
May 11–13, 2021
Kyiv, Ukraine

X Міжнародна Антарктична конференція,
присвячена 25-річчю підняття Державного
прапора України на Українській антарктичній
станції “Академік Вернадський”
м. Київ, Україна
11-13 травня 2021 р.

May 11, 2021 (Tuesday) 11.45 – 16.20 Kyiv time zone (8.45 – 13.20 UTC) ONLINE CONFERENCE	
Welcome and roll call	11:45 - 12:00 Kyiv (08.45-09.00 UTC)
OPENING. PLENARY MEETING Chairperson: Evgen Dykyi, Andriy Fedchuk	
Welcome Addresses	
12:00-12:40 Kyiv (09.00-09.40 UTC)	
Evgen Dykyi Director of the State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine	12:00-12:10 (09.00-09.10 UTC)
Serhiy Shkarlet Minister of Education and Science of Ukraine	12:10-12:20 (09.10-09.20 UTC)
Roman Hryshchuk Member of the Committee of Education, Science and Innovation, the Verkhovna Rada of Ukraine (Ukrainian Parliament)	12:20-12:30 (09.20-09.30 UTC)
Vitalii Tsymbaliuk Chargé d'Affaires of Ukraine to the Republic of Chile	12:30-12:40 (09.30-09.40 UTC)
Plenary reports:	
12:40-16:20 (09.40-13.20 UTC)	
1 Azizan Abu Samah ¹ , Nasaruddin Rahman ² ¹ Founding Member, Sultan Mizan Antarctic Research Foundation, Kuala Lumpur, Malaysia; ² Chief Executive Officer, Sultan Mizan Antarctic Research Foundation, Kuala Lumpur, Malaysia MALAYSIAN STRATEGIES IN SUSTAINING POLAR RESEARCH: ROLE OF SULTAN MIZAN ANTARCTIC RESEARCH FOUNDATION	12:40-13:00 (09.40-10.00 UTC)

2	Peter Convey <i>British Antarctic Survey, Natural Environment Research Council, United Kingdom</i> ISLANDS IN THE ICE: THE PAST, PRESENT AND FUTURE OF ANTARCTICA'S UNIQUE TERRESTRIAL BIODIVERSITY	13:00-13:20 (10.00-10.20 UTC)
3	<u>Y.M. Yampolski</u> ¹ , O.V. Koloskov ^{1,2} , O.V. Budanov ¹ ¹ <i>Institute of Radio Astronomy of National Academy of Sciences of Ukraine, Kharkiv,</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> LONG-TERM INVESTIGATIONS OF GLOBAL LIGHTNING ACTIVITY FROM THE UKRAINIAN ANTARCTIC STATION (REVIEW)	13:20-13:40 (10.20-10.40 UTC)
4	CURRENT STATE AND PERSPECTIVE ON ANTARCTIC RESEARCH <u>I.A. Kozeretska</u> ¹ , I.Yu. Parnikoza ^{1,2} , D. Pishniak ¹ , V.M. Malanchuk ¹ , E.O. Dykyi ¹ ¹ <i>State Institution National Antarctic Scientific Center Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ² <i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine</i>	13:40-14:00 (10.40-11.00 UTC)
5	<u>A.P. Fedchuk</u> , V.V. Savchenko <i>State Institution National Antarctic Scientific Center, Kyiv, Ukraine</i> THE ROLE OF AKADEMIK VERNADSKY STATION IN THE DEVELOPMENT OF UKRAINE IN THE ANTARCTIC TREATY SYSTEM	14:00-14:20 (11.00-11.20 UTC)
6	<u>I.Yu. Parnikoza</u> ^{1,2} , H.V. Yevchun ¹ , A.P. Fedchuk ¹ ¹ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ² <i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv</i> SYSTEMATIC CONSERVATION PLANNING FOR THE NEW PROPOSED ANTARCTIC SPECIALLY PROTECTED AREA "ARGENTINE ISLANDS AND KYIV PENINSULA REGION"	14:20-14:40 (11.20-11.40 UTC)
7	D.V. Cheberkus <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> BIBLIOMETRIC ANALYSIS OF UKRAINIAN ANTARCTIC RESEARCH PROGRAM 2011-2020	14:40-15:00 (11.40-12.00 UTC)
8	V.M. Malanchuk, O.V. Denysiuk, <u>O.M. Pnyovska</u> <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> OPTIMIZATION OF EDITORIAL AND PUBLISHING PROCESS OF SCIENTIFIC PROFESSIONAL EDITION "UKRAINIAN ANTARCTIC JOURNAL"	15:00-15:20 (12.00-12.20 UTC)
9	<u>S.-R. Zhang</u> ¹ , A.J. Coster ¹ , L.P. Goncharenko ¹ , P.J. Erickson ¹ , E. Aa ¹ , A.V. Zalozovski ^{2,3} , A.V. Koloskov ^{2,4} , Y.M. Yampolski ² , E.M. Zanimonsky ² , T. Dang ⁵ , J. Lei ⁵ , W. Wang ⁶ ¹ <i>Haystack Observatory, Massachusetts Institute of Technology, Westford, MA, USA</i> ² <i>Institute of Radio Astronomy of NAS of Ukraine, Kharkiv</i> ³ <i>Space Research Centre of Polish Academy of Sciences, Warsaw, Poland</i> ⁴ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ⁵ <i>CAS Key Laboratory of Geospace Environment, University of Science and Technology of China, Hefei, China</i> ⁶ <i>High Altitude Observatory, National Center for Atmospheric Research, Boulder, CO, USA</i> GEOSPACE IMPACT OF THE 2021 SOLAR ECLIPSES IN POLAR REGIONS	15:20-15:40 (12.20-12.40 UTC)
10	Ari S. Friedlaender <i>Institute for Marine Sciences, Department of Ocean Sciences, University of California Santa Cruz, USA</i> FORAGING ECOLOGY AND POPULATION DEMOGRAPHY OF RECOVERING HUMPBACK WHALES AROUND THE ANTARCTIC PENINSULA: A MULTI-NATIONAL, COLLABORATIVE RESEARCH PROGRAM	15:40-16:00 (12.40-13.00 UTC)
11	D. Bromwich <i>The Ohio State University, Ohio, USA</i> AN OVERVIEW OF THE YEAR OF POLAR PREDICTION IN THE SOUTHERN HEMISPHERE (YOPP-SH) AND ITS ACHIEVEMENTS	16:00-16:20 (13.00-13.20 UTC)

May 12, 2021 (Wednesday)
09.00 – 18.40 Kyiv time zone
(06.00 – 15.40 UTC)

LIFE SCIENCES SESSION

Chairpersons: Ivan Parnikoza, Iryna Kozeretska

1	<p><u>S.A. Ahmad</u>¹, C. Gomez-Fuentes², A. Zulkharnain³, P. Convey⁴</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile</i></p> <p>³<i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i></p> <p>⁴<i>British Antarctic Survey, NERC, Cambridge, UK</i></p> <p>THE APPLICATION OF ANTARCTIC MICROORGANISM ON HYDROCARBON BIOREMEDIATION PROCESS</p>	<p>9:00-9:20 (06.00-06.20 UTC)</p>
2	<p><u>S.U. Aminu</u>¹, F. Merican¹, W.O. Wan Maznah¹, P. Broady², P. Convey³</p> <p>¹<i>School of Biological Sciences, Universiti Sains Malaysia, Penang, Malaysia</i></p> <p>²<i>School of Biological Sciences University of Canterbury New Zealand</i></p> <p>³<i>British Antarctic Survey, NERC, Cambridge, UK</i></p> <p>ANTARCTIC CYANOBACTERIA RESPONSE TO SALT STRESS</p>	<p>9:20-9:40 (06.20-06.40 UTC)</p>
3	<p><u>S. Darham</u>¹, S.A. Ahmad¹, A. Zulkharnain², S. Sabri³, C. Gomez-Fuentes⁴, K.A. Khalil⁵, P. Convey⁶</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i></p> <p>³<i>Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>⁴<i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile</i></p> <p>⁵<i>School of Biology, Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia</i></p> <p>⁶<i>British Antarctic Survey, NERC, Cambridge, UK</i></p> <p>STATISTICAL OPTIMISATION OF MOLYBDENUM REDUCTION USING PSYCHROTOLERANT MARINE BACTERIA ISOLATED FROM ANTARCTICA</p>	<p>9:40-10:00 (06.40-07.00 UTC)</p>
4	<p><u>R. Radzi</u>¹, P. Broady², P. Convey³, W. M. W. Omar¹, F. Merican¹</p> <p>¹<i>School of Biological Science, Universiti Sains Malaysia, Penang, Malaysia</i></p> <p>²<i>Biological Science, University of Canterbury, Christchurch, New Zealand</i></p> <p>³<i>British Antarctic Survey, NERC, Cambridge, United Kingdom</i></p> <p>DIVERSITY OF TERRESTRIAL CYANOBACTERIA FROM SELECTED HABITATS ON SIGNY ISLAND, SOUTH ORKNEY ISLANDS, ANTARCTICA</p>	<p>10:00-10:20 (07.00-07.20 UTC)</p>
5	<p><u>A.F.A. Roslee</u>¹, S.A. Ahmad¹, C. Gomez-Fuentes², A. Zulkharnain³, N.A. Shaharuddin¹, K.A. Khalil⁴, P. Convey⁵</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile.</i></p> <p>³<i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i></p> <p>⁴<i>School of Biology, Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia.</i></p> <p>⁵<i>British Antarctic Survey, NERC, Cambridge, United Kingdom</i></p>	<p>10:20-10:40 (07.20-07.40 UTC)</p>

	GROWTH OPTIMISATION AND KINETIC PROFILING OF DIESEL BIODEGRADATION BY A COLD-ADAPTED BACTERIAL CONSORTIUM ISOLATED FROM TRINITY PENINSULA, ANTARCTICA	
6	<u>K. Sato</u> ¹ , S.A. Ahmad ² , A. Zulkharnain ¹ ¹ <i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i> ² <i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i> ISOLATION OF POLYLACTIC ACID (PLA)-DEGRADING BACTERIUM FROM ANTARCTIC SOIL	10:40-11:00 (07.40-08.00 UTC)
7	<u>K.N.M. Zahri</u> ¹ , S.A. Ahmad ¹ , S. Sabri ² , A. Zulkharnain ³ , C. Gomez-Fuentes ⁴ , K.A. Khalil ⁵ , P. Convey ⁶ ¹ <i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i> ² <i>Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia.</i> ³ <i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan.</i> ⁴ <i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile</i> ⁵ <i>School of Biology, Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia.</i> ⁶ <i>British Antarctic Survey, NERC, Cambridge, UK</i> BIODEGRADATION OF WASTE CANOLA OIL (WCO) AND PURE CANOLA OIL (PCO) BY AN ANTARCTIC BACTERIAL COMMUNITY	11:00-11:20 (08.00-08.20 UTC)
8	<u>N.N. Zakaria</u> ¹ , S.A. Ahmad ¹ , C. Gomez-Fuentes ² , A. Zulkharnain ³ , S. Sabri ⁴ , N.A. Shaharuddin ⁵ , P. Convey ⁶ ¹ <i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i> ² <i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile.</i> ³ <i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i> ⁴ <i>Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i> ⁵ <i>British Antarctic Survey, NERC, Cambridge, UK</i> HYDROCARBON-DEGRADING BACTERIAL COMMUNITY PRESENT IN NON-CONTAMINATED ANTARCTIC SEAWATER	11:20-11:40 (08.20-08.40 UTC)
9	<u>Syazana Zaki</u> ¹ , Faradina Merican ¹ , Narongrit Muangmai ² , Peter Convey ³ , Paul Broady ⁴ ¹ <i>School of Biological Science, Universiti Sains Malaysia, Penang, Malaysia</i> ² <i>Department of Fishery Biology, Faculty of Fisheries, Kasetsart University, Chatuchak, Bangkok, Thailand</i> ³ <i>British Antarctic Survey, NERC, Cambridge, United Kingdom</i> ⁴ <i>School of Biological Sciences, University of Canterbury, Christchurch, New Zealand</i> THE FIRST DISCOVERY OF TOXIN PRODUCING <i>WILMOTTIA MURRAYI</i> FROM CRYOPRESERVED ANTARCTIC CYANOBACTERIAL MATS	11:40-12:00 (08.40-09.00 UTC)
10	<u>K. Subramaniam</u> ¹ , S.A. Ahmad ¹ , N.A. Shaharuddin ¹ , A. Zulkharnain ² , K.A. Khalil ³ , P. Convey ⁴ ¹ <i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i> ² <i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute Technology, Saitama, Japan</i> ³ <i>Department of Biomolecular Sciences, Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia</i> ⁴ <i>British Antarctic Survey, NERC, Cambridge, UK</i> DEVELOPMENT OF A DEFINED MIXED CULTURE (DMC) SYSTEM FOR EFFECTIVE REMEDIATION OF PHENOL AT LOW TEMPERATURE	12:00-12:20 (09.00-09.20UTC)
11	<u>N. Mohamad-Fauzi</u> ^{1,2,4} , H.J. Wong ^{2,3} , H. Goh ⁵ , J. Smykla ⁶ , S.A. Alias ^{2,4} ¹ <i>Institute of Biological Sciences, Universiti Malaya, Kuala Lumpur, Malaysia</i> ² <i>Institute of Ocean & Earth Sciences, Institute for Advanced Studies, Universiti Malaya, Kuala Lumpur, Malaysia</i> ³ <i>Institute for Advanced Studies, Universiti Malaya, Kuala Lumpur, Malaysia</i> ⁴ <i>National Antarctic Research Centre, Institute for Advanced Studies, Universiti Malaya, Kuala Lumpur, Malaysia</i> ⁵ <i>Institute of Systems Biology, Universiti Kebangsaan Malaysia, Selangor Darul Ehsan, Malaysia</i>	12:20-12:40 (09.20-09.40 UTC)

	⁶ <i>Institute of Nature Conservation, Polish Academy of Sciences, Kraków, Poland</i> TRANSCRIPTIONAL RESPONSE IN POLAR PSEUDOGYMNOASCUS SPP. SOIL FUNGI FOLLOWING THERMAL CHALLENGE	
12	<u>M. Rizman-Idid</u> ¹ , H.J. Wong ² , N. Mohamad-Fauzi, P. Convey, J. Smykla, S.A. Alias <i>Institute of Ocean and Earth Sciences, University of Malaya, Kuala Lumpur, Malaysia</i> MOLECULAR IDENTIFICATION OF <i>PSEUDOGYMNOASCUS</i> SPP. ISOLATED FROM ARCTIC AND ANTARCTIC REGIONS	12:40-13:00 (09.40-10.00 UTC)
13	<u>C.M.V.L Wong</u> ¹ , N.A Yusof ¹ , A.M.A Murad ² , F.D. Abu Bakar ² , N.M. Mahadi ³ , A.Y.A Rahman ⁴ , N. Zainuddin, N. Najimudin ⁴ ¹ <i>Biotechnology Research Institute, Universiti Malaysia Sabah, Jalan UMS, Sabah, Malaysia</i> ² <i>School of Biosciences and Biotechnology, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, Selangor, Malaysia</i> ³ <i>Malaysia Genome Institute, Selangor Darul Ehsan, Malaysia</i> ⁴ <i>School of Biological Sciences, Universiti Sains Malaysia, Penang, Malaysia</i> MOLECULAR CHAPERONES HELP ANTARCTIC PSYCHROPHILIC YEAST, <i>Glaciozyma antarctica</i> PI12 TO COPE WITH HEAT STRESS	13:00-13:20 (10.00-10.20 UTC)
14	<u>Nur Hidayu Syuhada</u> ¹ , Paul A. Broady ² , Peter Convey ³ , Faradina Merican ¹ ¹ <i>School of Biological Science, Universiti Sains Malaysia</i> ² <i>School of Biological Sciences, University of Canterbury</i> ³ <i>British Antarctic Survey, Cambridge</i> STRONG AND WIDESPREAD CYCLOHEXIMIDE RESISTANCE IN THE EUKARYOTIC ALGAL GENUS <i>Stichococcus</i>	13:20-13:40 (10.20-10.40 UTC)
15	<u>D.V. Lukashov</u> , T.S. Tesolkina <i>Taras Shevchenko National University of Kyiv, Kyiv</i> FUNCTIONAL FEATURES OF BIOGEOCHEMICAL MIGRATION SYSTEM OF TOXIC CHEMICAL ELEMENTS IN TERRESTRIAL ECOSYSTEMS OF GALINDEZ ISLAND	13:40-14:00 (10.40-11.00 UTC)
16	<u>A.Ye. Berezkina</u> ^{1,2} , M.A. Kharkhota ³ , L.D. Varbanets ³ , K.V. Avdiuk ³ , O.V. Gudzenko ³ , M.Yu. Gorpynchenko, A.Yu. Utevsky ^{1,2} ¹ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ² <i>V.N. Karazin Kharkiv National University, Kharkiv</i> ³ <i>D.K. Zabolotny Institute of Microbiology and Virology of the NAS of Ukraine, Kyiv</i> PHYLOGENETIC RELATIONSHIPS OF THE GENUS PSEUDOALTEROMONAS, PSYCHROMONAS AND OCEANOBACILLUS IN THE POLAR REGIONS	14:00-14:20 (11.00-11.20 UTC)
17	<u>O. M. Gromyko</u> ¹ , S.I. Tistechok ¹ , I.I. Roman ¹ , O.V. Aravitska ¹ , A.M. Luzhetskyy ³ , I.Y. Parnikova ² , V.O. Fedorenko ¹ ¹ <i>Ivan Franko National University of Lviv; Lviv</i> ² <i>National Antarctic Scientific Center of the Ministry of Education and Science of Ukraine, Institute of Molecular biology and Genetic NAS of Ukraine, Kyiv</i> ³ <i>Saarland University, Saarbrücken, Germany</i> ACTINOBACTERIA ASSOCIATED WITH <i>Polytrichum strictum</i> FROM GALINDEZ ISLAND (MARITIME ANTARCTIC): DIVERSITY, PROPERTIES AND BIOTECHNOLOGICAL POTENTIAL	14:20-14:40 (11.20-11.40 UTC)
18	<u>O. Sinna</u> ¹ , V. Popov ¹ , N. Efimova ² , G. Yuhno ² , A. Krasnopyorova ² , D. Shmyrov ³ , A. Utevsky ^{1,3} ¹ <i>V. N. Karazin Kharkiv National University, Kharkiv</i> ² <i>Research Institute of Chemistry, V. N. Karazin Kharkiv National University, Kharkiv</i> ³ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> GIS AND CARTOGRAPHIC SUPPORT OF THE CHEMICAL COMPOSITION RESEARCH OF THE BOTTOM SEDIMENTS OF THE ARGENTINE ISLANDS' WATER AREA	14:40-15:00 (11.40-12.00 UTC)
19	<u>Nataliia Raksha</u> , Tetiana Halenova, Tetiana Vovk, Olexiy Savchuk, Ludmila Ostapchenko <i>ESC "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv</i> ANTIOXIDANT PEPTIDES DERIVED FROM THE ANTARCTIC HYDROBIONTS	15:00-15:20 (12.00-12.20 UTC)
20	<u>Kuzmina T.A.</u> ¹ , Salganskij O.O. ² , Dykyj I.V. ³ , Lisitsyna O.L. ¹ , Korol E.M. ⁴ , Kuzmin Y.I. ¹ ¹ <i>I. I. Schmalhausen Institute of Zoology NAS of Ukraine, Kyiv</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ³ <i>Zoological museum of Lviv National University, Lviv</i> ⁴ <i>National Museum of Natural History NAS of Ukraine, Kyiv</i> SPECIES DIVERSITY OF THE PARASITE COMMUNITIES OF BONY FISHES FROM THE ARGENTINE ISLAND REGION, WEST ANTARCTICA	15:20-15:40 (12.20-12.40 UTC)

21	<p><u>A.Yu. Utevsky</u>^{1,2}, S.Yu. Utevsky¹ ¹<i>V.N. Karazin Kharkiv National University, Kharkiv, Ukraine</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> BIPOLAR DISTRIBUTION IN FISH PARASITES OF ANTARCTICA</p>	<p>15:40-16:00 (12.40-13.00 UTC)</p>
22	<p><u>S. Y. Komplikevych</u>, I. I. Hruna, O. D. Maslovska, T. B. Peretyatko, O. M. Moroz, S. O. Hnatush <i>Ivan Franko National University of Lviv, Lviv</i> BACTERIA OF THE GENUS <i>PSEUDOMONAS</i> ISOLATED FROM ANTARCTIC BIOTOPES</p>	<p>16:00-16:20 (13.00-13.20 UTC)</p>
23	<p><u>Kovalenko P.A.</u>¹, Serga S.V.^{2,3}, Salganskiy O.O.⁴, Kozeretska I.A.³ ¹<i>Institute for evolutionary ecology NAS Ukraine, Kyiv</i> ²<i>Taras Shevchenko National University of Kyiv, Kyiv</i> ³<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ⁴<i>National University of Life and Environmental Sciences of Ukraine, Kyiv</i> ANALYSIS OF mtDNA HAPLOTYPES IN <i>BELGICA ANTARCTICA</i> JACOBS (DIPTERA, CHIRONOMIDAE) POPULATIONS</p>	<p>16:20-16:40 (13.20-13.40 UTC)</p>
24	<p><u>I.O. Andreev</u>¹, I.I. Konvalyuk¹, I.Yu. Parnikoza^{1,2}, M.O. Pavlovska², I.A. Kozeretska², V.A. Kunakh¹ ¹<i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> MOLECULAR-GENETIC ANALYSIS OF <i>COLOBANTHUS QUITENSIS</i> POPULATIONS FROM ARGENTINE ISLANDS REGION USING RETROTRANSPOSON MARKERS</p>	<p>16:40-17:00 (13.40-14.00 UTC)</p>
25	<p><u>O.O.Poronnik</u>¹, Ie.P.Prekrasna², V.Yu.Ivanets², I.Yu.Parnikoza^{2,1}, G.Yu.Myryuta¹, V.A.Kunakh¹ ¹<i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> IN VITRO CLONAL PROPAGATION OF <i>COLOBANTHUS QUITENSIS</i> FROM THE MARITIME ANTARCTICA</p>	<p>17:00-17:20 (14.00-14.20 UTC)</p>
26	<p><u>R.V. Ivannikov</u>¹, I.V. Laguta², O.M. Stavynska², P.O. Kuzema², V.M. Anishchenko¹, I.Yu. Parnikoza³, O.O. Poronnik⁴, G. Yu. Myryuta⁴, V.A. Kunakh⁴ ¹<i>M.M. Gryshko National Botanic Garden, National Academy of Sciences of Ukraine, Kyiv</i> ²<i>Chuiko Institute of Surface Chemistry, National Academy of Sciences of Ukraine</i> ³<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ⁴<i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv</i> COMPARATIVE STUDY OF BIOLOGICALLY ACTIVE COMPOUNDS CONTENTS IN <i>DESCHAMPSIA ANTARCTICA</i> PLANTS OF DIFFERENT ORIGIN</p>	<p>17:20-17:40 (14.20-14.40 UTC)</p>
27	<p><u>I.I. Konvalyuk</u>, M.O. Twardovska, L.P. Mozhylevska, I.O. Andreev, V.A. Kunakh <i>Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Kyiv</i> CALLUS FORMATION, ORGANOGENESIS AND PLANT REGENERATION <i>IN VITRO</i> OF <i>DESCHAMPSIA ANTARCTICA</i></p>	<p>17:40-18:00 (14.40-15.00 UTC)</p>
28	<p><u>N. Myryuta</u>¹, I. Parnikoza^{1,2}, O. Poronnik^{2,1}, G. Myryuta^{1,2}, M. Rojek-Jelonek³, E. Dykyi¹, V. Kunakh² ¹<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> ²<i>Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv</i> ³<i>University of Silesia in Katowice, Katowice, Poland</i> CORRELATION MODELS OF ADAPTABILITY <i>DESCHAMPSIA ANTARCTICA</i> GENOTYPES OF DIFFERENT ORIGIN GROWN UNDER <i>IN VITRO</i> CONDITION</p>	<p>18:00-18:20 (15.00-15.20 UTC)</p>
29	<p><u>Twardovska M.O.</u>¹, Konvalyuk I.I.¹, Lystvan K.V.², Andreev I.O.¹, Kunakh V.A.¹ ¹<i>Institute of Molecular Biology and Genetics of NAS of Ukraine, Kyiv</i> ²<i>Institute of Cell Biology and Genetic, Engineering of NAS of Ukraine, Kyiv</i> COMPARATIVE ANALYSIS OF THE CONTENT OF BIOLOGICALLY ACTIVE COMPOUNDS IN INTACT PLANTS AND TISSUE CULTURE OF <i>DESCHAMPSIA ANTARCTICA</i> E. DESV.</p>	<p>18:20-18:40 (15.20-15.40 UTC)</p>

May 13, 2021 (Thursday)
10:00-19:00 Kyiv time zone
(07.00 – 14.00 UTC)

LIFE SCIENCES SESSION

Chairpersons: Ivan Parnikoza, Iryna Kozeretska

1	<p>O. Salgansky¹, A. Dzhulai¹, <u>G. Milinevsky</u>^{1,2,3}, P. Khojetsky^{1,4}, V. Smagol⁵, I. Dyky^{1,6}, A. Simon², M. Telipska⁶, L. Pshenichnov⁷, O. Savitsky⁸, M. Veselsky⁹, D. Lutsenko¹⁰</p> <p>¹National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine ²Taras Shevchenko National University of Kyiv, Kyiv, Ukraine ³International Center of Future Science, College of Physics, Jilin University, Changchun, China ⁴National Forestry University of Ukraine, Lviv, Ukraine ⁵Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine, Kyiv, Ukraine ⁶Ivan Franko National University of Lviv, Lviv, Ukraine ⁷Institute of Fisheries and Marine Ecology, Berdyansk, Ukraine ⁸Institute of Hydrobiology, National Academy of Sciences of Ukraine, Kyiv, Ukraine ⁹Zhytomyr Regional Museum of Local Lore, Zhytomyr, Ukraine ¹⁰Institute for Problems of Cryobiology and Cryomedicine of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</p> <p>GENTOO BREEDING CHRONOLOGY BY CEMP CAMERAS - VALIDATION EXPERIMENT</p>	<p>10:00-10:20 (07.00-07.20 UTC)</p>
2	<p><u>J. Ivanchikova</u>^{1,2}, K. Vyshnyakova^{1,3}</p> <p>¹ Scientific Research Institution Ukrainian Scientific Centre of Ecology of the Sea, Ministry of Ecology and Natural Resources of Ukraine, Odesa, Ukraine ² I.I. Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine ³ State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</p> <p>PHOTO-IDENTIFICATION STUDY OF HUMPBACK WHALES (<i>MEGAPTERA NOVAEANGLIAE</i>) NEAR THE SOUTHERN ORKNEY ISLANDS DURING AUSTRALIAN SUMMER 2020-2021</p>	<p>10:20-10:40 (07.20-07.40 UTC)</p>
3	<p><u>K. Vishnyakova</u>^{1,2}, J. Ivanchikova^{1,3}</p> <p>¹Scientific Research Institution Ukrainian Scientific Centre of Ecology of the Sea, Ministry of Ecology and Natural Resources of Ukraine, Odesa, Ukraine ²State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine ³I.I. Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine, Kyiv, Ukraine</p> <p>CETACEAN SPATIAL DISTRIBUTION NEAR THE SOUTHERN ORKNEY ISLANDS DURING ANTARCTIC KRILL FISHERY, AUSTRALIAN SUMMER 2020-2021</p>	<p>10:40-11:00 (07.40-08.00 UTC)</p>
4	<p>V.V. Paramonov</p> <p>Institute of Fisheries and Marine Ecology, Berdyansk</p> <p>TEMPERATURE CONDITIONS OF DWELLING OF ANTARCTIC TOOTHFISH (<i>DISSOSTICHUS MAWSONI</i>) IN ANTARCTICA (WEDDELL, ROSS AND AMUNDSEN SEAS).</p>	<p>11:00-11:20 (08.00-08.20 UTC)</p>
5	<p>B.V.Donskoi</p> <p>Institute of Pediatrics, Obstetrics and Gynecology, National Academy of Medical Sciences of Ukraine, Kyiv, Ukraine</p> <p>STUDY OF THE STATE OF THE IMMUNE SYSTEM OF ANTARCTIC EXPEDITIONS MEMBERS</p>	<p>11:20-11:40 (08.20-08.40 UTC)</p>

6	<p><u>Ya.V. Pirko</u>¹, Yu.O. Bilonozhko¹, A.M. Rabokon¹, A.S. Postovoitova¹, L.O. Kalafat¹, I.Yu. Parnikoza², I.A. Kozeretska², Ya.B. Blume¹</p> <p>¹ <i>Institute of Food Biotechnology and Genomics of the National Academy of Sciences of Ukraine</i>, Kyiv, Ukraine</p> <p>² <i>National Antarctic Scientific Center of the Ministry of Education and Science of Ukraine</i>, Kyiv, Ukraine</p> <p>ASSESSMENT OF COLOBANTHUS QUITENSIS GENETIC DIVERSITY IN THE ANTARCTIC BY ANALYSIS OF INTRON POLYMORPHISM OF CYTOSKELETON PROTEIN GENES</p>	<p>11:40-12:00 (08.40-09.00 UTC)</p>
	<p>POSTERS:</p>	<p>12:00-16:15 (09.00 – 13.15 UTC)</p>
1	<p><u>N. Abu Bakar</u>, B. Y. C. Lau, J. Smykla, S. A. Karsani and S. A. Alias</p> <p><i>Institute of Ocean and Earth Sciences, Universiti Malaya, Kuala Lumpur, Malaysia</i></p> <p>HEAT STRESS RESPONSE OF PSEUDOGYMNOASCUS SPP. ISOLATED FROM DIFFERENT BIOGEOGRAPHIC REGIONS</p>	<p>12:00-12:15 (09.00-09.15 UTC)</p>
2	<p><u>R.R. Wong</u>¹, S.A. Ahmad¹, C. Gomez-Fuentes², A. Zulkharnain³, S. Sabri⁴, C. K.A. Khalil⁵</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile</i></p> <p>³<i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute of Technology, Saitama, Japan</i></p> <p>⁴<i>Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia.</i></p> <p>⁵<i>Department of Biomolecular Sciences, Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia</i></p> <p>ANTARCTIC BACTERIAL CONSORTIUM DIESEL DEGRADATION OPTIMISATION VIA STATISTICAL APPROACH</p>	<p>12:15-12:30 (09.15-09.30 UTC)</p>
3	<p><u>T.A. Tengku-Mazuki</u>¹, S.A. Ahmad¹, N.A. Shaharuddin¹, P. Convey², A. Zulkharnain³, C. Gomez-Fuentes⁴</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>British Antarctic Survey, NERC, Cambridge, United Kingdom</i></p> <p>³<i>Department of Bioscience and Engineering, College of Systems Engineering and Science, Shibaura Institute Technology, Saitama, Japan.</i></p> <p>⁴<i>Department of Chemical Engineering, Universidad de Magallanes, Punta Arenas, Chile</i></p> <p>EFFECT OF HEAVY METALS ON PHENOL DEGRADATION BY AN ANTARCTIC BACTERIAL CONSORTIUM</p>	<p>12:30-12:45 (09.30-09.45 UTC)</p>
4	<p><u>G. Verasoundarapandian</u>¹, C.-Y. Wong², S.A. Ahmad¹</p> <p>¹<i>Department of Biochemistry, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Selangor, Malaysia</i></p> <p>²<i>School of Health Sciences, International Medical University, Kuala Lumpur, Malaysia</i></p> <p>GROWTH EVALUATION OF ANTARCTIC FILAMENTOUS ALGAE IN MOLYBDENUM AS HEAVY METAL</p>	<p>12:45-13:00 (09.45-10.00 UTC)</p>
5	<p>O. Salgansky¹, A. Dzhulai¹, <u>G. Milinevsky</u>^{1,2,3}, P. Khoyetskyy^{1,4}, V. Smagol⁵, I. Dykyy^{1,6}, A. Simon², M. Telipska⁶, L. Pshenichnov⁷, O. Savitsky⁸, M. Veselskyi⁹, D. Lutsenko¹⁰</p> <p>¹<i>National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i></p> <p>²<i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i></p> <p>³<i>International Center of Future Science, College of Physics, Jilin University, Changchun, China</i></p> <p>⁴<i>National Forestry University of Ukraine, Lviv, Ukraine</i></p> <p>⁵<i>Schmalhausen Institute of Zoology of National Academy of Sciences of Ukraine, Kyiv, Ukraine</i></p> <p>⁶<i>Ivan Franko National University of Lviv, Lviv, Ukraine</i></p> <p>⁷<i>Institute of Fisheries and Marine Ecology, Berdyansk, Ukraine</i></p> <p>⁸<i>Institute of Hydrobiology, National Academy of Sciences of Ukraine, Kyiv, Ukraine</i></p> <p>⁹<i>Zhytomyr Regional Museum of Local Lore, Zhytomyr, Ukraine</i></p> <p>¹⁰<i>Institute for Problems of Cryobiology and Cryomedicine of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i></p> <p>ESTABLISHING A CEMP CAMERA NETWORK IN ANTARCTIC PENINSULA: PROJECT RESULTS</p>	<p>13:00-13:15 (10.00-10.15 UTC)</p>

6	<p>Ivanets V.¹, Miryuta N.¹, Yevchun A.^{1,2}, Pilipenko D.¹, Salgansky O.^{1,3}, Veselsky M.⁴, Kozeretska I.¹, Dykyi E.¹, Parnikoza I.^{1,2,5,6}</p> <p>¹State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</p> <p>²National University of «Kyiv-Mohyla Academy», Kyiv</p> <p>³National University of Life and Environmental Sciences of Ukraine, Kyiv</p> <p>⁴Zhytomyr Regional Museum of Culture and Traditions, Zhytomyr</p> <p>⁵Institute of Molecular Biology and Genetic, NAS of Ukraine, Kyiv</p> <p>⁶National Historical and Architectural Museum «Kyiv Fortress», Kyiv</p> <p>AN EXAMPLE OF ORNITHOCHORY: CATHARACTA MACCORMICKI IN THE REGION OF THE ARGENTINE ISLANDS, THE MARITIME ANTARCTIC</p>	<p>13:15-13:30 (10.15-10.30 UTC)</p>
7	<p>Y.G. Giginyak, D.A. Lukashanets, O.I. Borodin, V.E. Myamin</p> <p>State Scientific and Production Association "Scientific Research Center of the National Academy of Sciences of Belarus for Bioresources", Minsk, Belarus</p> <p>TEMPERATURE SURVIVAL OF DAPHNIA (CTENODAPHNIA STUDERI (RUHE, 1914) (ANOMOPODA, CRUSTACEA: CLADOCERA) FROM COASTAL LAKES AT LARSEMANN OASIS (LARSEMANN HILLS, EAST ANTARCTICA)</p>	<p>13:30-13:45 (10.30-10.45 UTC)</p>
8	<p>O.M. Bubyk, I.O. Andreev, V.A. Kunakh</p> <p>Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine, Kyiv</p> <p>BIOINFORMATIC ANALYSIS OF GENE PROMOTER OF DESCHAMPSIA ANTARCTICA DaDREB2B STRESS-INDUCIBLE TRANSCRIPTION FACTOR</p>	<p>13:45-14:00 (10.45-11.00 UTC)</p>
9	<p>Ie.P. Prekrasna¹, M.O. Pavlovska^{1,3}, V.Yu.Ivanets¹, I.Yu. Parnikoza^{1,2}</p> <p>¹State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine;</p> <p>²Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine;</p> <p>³National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine</p> <p>ENDOPHYTIC BACTERIAL COMMUNITIES' COMPOSITION OF ANTARCTIC VASCULAR PLANTS DERIVED BY 16S rRNA METAGENOMICS</p>	<p>14:00-14:15 (11.00-11.15 UTC)</p>
10	<p>M.O. Pavlovska¹, Ie.P. Prekrasna¹, A.O. Dzhulai¹, A.B. Zotov¹, E.O. Dykyi¹</p> <p>¹State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</p> <p>²National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine</p> <p>³State Institution Institute of Marine Biology of the NAS of Ukraine, Odesa, Ukraine</p> <p>OPTIMIZED PROTOCOL FOR DNA EXTRACTION FROM LOW-ABUNDANCE ANTARCTIC BACTERIOPLANKTON SAMPLES FOR INCREASED YIELD</p>	<p>14:15-14:30 (11.15-11.30 UTC)</p>
11	<p>E.A. Gribanova, V.E. Miamin</p> <p>Belarusian State University, Minsk, Belarus</p> <p>PHYSIOLOGICAL AND BIOCHEMICAL CHARACTERISTICS OF YEAST ISOLATED FROM DIFFERENT ECOSYSTEMS OF EASTERN ANTARCTIDA</p>	<p>14:30-14:45 (11.30-11.45 UTC)</p>
12	<p>V. Holovan, V. Zoloiedova, O. Andriichuk</p> <p>Taras Shevchenko National University of Kyiv, Ukraine</p> <p>PRESERVATION OF INFECTIVITY OF BACTERIOPHAGELYSATES ISOLATED FROM SOIL BIOTOPES OF THE ANTARCTIC REGION DEPENDING ON STORAGE TIME AND TEMPERATURE</p>	<p>14:45-15:00 (11.45-12.00 UTC)</p>
13	<p>Yu. G. Hihinyak¹, M.P. Andreev², E.R. Grischenko³, P. Convey⁴, O.L. Kandelinskaya³</p> <p>¹Scientific and Practical Center for Bioresources of National Academy of Sciences of Belarus, Minsk, Belarus</p> <p>²Komarov Botanical Institute of the Russian Academy of Sciences, St. Petersburg, Russia</p> <p>³V.F. Kuprevich Institute of Experimental Botany of National Academy of Sciences of Belarus, Minsk, Belarus</p> <p>⁴British Antarctic Survey, NERC, Cambridge, United Kingdom</p> <p>ELEMENT ACCUMULATION IN MARITIME AND CONTINENTAL ANTARCTIC LICHENS</p>	<p>15:00-15:15 (12.00-12.15 UTC)</p>
14	<p>N.Y. Kyyak, O.B. Lobachevska, Y.D. Khorkavtsiv</p> <p>Institute of Ecology of the Carpathian of the National Academy of Sciences of Ukraine, Lviv, Ukraine</p> <p>PHOTOPROTECTOR FUNCTIONS OF UV-ABSORBING PHENOLIC COMPOUNDS OF BRYOPHYTES FROM ANTARCTICA</p>	<p>15:15-15:30 (12.15-12.30 UTC)</p>

15	<p><i>O. Lobachevska</i>¹, <i>N. Kyyak</i>¹, <i>Ya. Khorkavtsiv</i>¹, <i>E. Kordyum</i>² ¹<i>Institute of Ecology of the Carpathians of the National Academy of Sciences of Ukraine, Lviv</i> ²<i>M.G. Kholodny Institute of Botany of the National Academy of Sciences of Ukraine, Kyiv</i> BIOLOGICAL CHARACTERISTICS GRAVIMORPHOSES THAT ASSIST OF MOSS SPECIES TOLERANCE IN ANTARCTICA CONDITIONS</p>	<p>15:30-15:45 (12.30-12.45 UTC)</p>
16	<p><i>L. M. Bakhmutova</i> <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv</i> SOCIO-SPATIAL ISOLATION AND PSYCHOLOGICAL STATE OF UKRAINIAN ANTARCTIC EXPEDITIONS PARTICIPANTS</p>	<p>15:45-16:00 (12.45-13.00 UTC)</p>
17	<p><i>V. V. Vasiliev</i>¹, <i>O. V. Nahlov</i>² ¹<i>Institute of Applied Cryology, Kharkiv, Ukraine</i> ²<i>V.N. Karazin Kharkiv National University, Kharkiv, Ukraine</i> SHORT-TERM COLD LOADS AS AN ELEMENT OF REHABILITATION ACTIONS AFTER THE INFLUENCE OF EXTREME FACTORS</p>	<p>16:00-16:15 (13.00-13.15 UTC)</p>
18	<p><i>O. A. Miroshnychenko</i> <i>Zhytomyr Ivan Franko State University, Zhytomyr, Ukraine</i> AGE FEATURES OF PSYCHOLOGICAL READINESS OF WINTERERS TO LIFE IN ANTARCTICA</p>	<p>16:15-16:30 (13.15-13.30 UTC)</p>
19	<p><i>O. V. Savenko</i> <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> <i>Ukrainian Scientific Center of Ecology of the Sea, Odesa, Ukraine</i> NEW SIGHTINGS OF THE SOUTHERN RIGHT WHALES NEAR THE WESTERN COAST OF THE ANTARCTIC PENINSULA, IN 2018 AND 2020</p>	<p>16:30-17:00 (13.30-14.00 UTC)</p>
<p>Round-table discussion on the topic “Development of Possible Cooperation in Life Sciences”</p> <p>All participants are invited</p>		<p>17:00-18:00 (14.00-15.00 UTC)</p>

May 13, 2021 (Thursday)

**10.00 – 16.00 Kyiv time zone
(07.00 – 13.00 UTC)**

GEOSCIENCES SESSION

Chairperson: Sergiy Kadurin

1	<p><u>O. Mytrokhyn</u>¹, <u>V. Bakhmutov</u>^{2,3} ¹ <i>Taras Shevchenko National University of Kyiv, Ukraine</i> ² <i>Institute of Geophysics National Academy of Sciences of Ukraine</i> ³ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> GEOLOGICAL SURVEY ON THE UKRAINIAN ANTARCTIC STATION AREA (THE HISTORY, CURRENT STATE AND THE FUTURE)</p>	<p>10:00-10:20 (07.00-07.20 UTC)</p>
2	<p><u>A. Chernov</u>¹, <u>D. Pishniak</u>¹, <u>Y. Otruba</u>¹, <u>J. Karuss</u>², <u>K. Lamsters</u>², <u>M. Krievans</u>², <u>V. Trokhymets</u>³ ¹ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ² <i>University of Latvia, Faculty of Geography and Earth Sciences, Riga, Latvia</i> ³ <i>Taras Shevchenko National University of Kyiv, Educational and Scientific Center «Institute of Biology and Medicine», Kyiv, Ukraine</i> APPLICATION OF GEOPHYSICAL AND BIOLOGICAL APPROACHES FOR INVESTIGATIONS OF ICE-CAPS ON THE ARGENTINE ISLANDS (WEST ANTARCTICA) (TIME PERIOD:2017-2020)</p>	<p>10:20-10:40 (07.20-07.40 UTC)</p>
3	<p><u>V.Yu. Maksymchuk</u>, <u>I.O.Chobotok</u>, <u>Ye.F.Nakalov</u>, <u>R.S.Kuderavets</u>, <u>N.B.Pyritzok</u> <i>Carpathian Branch of Subbotin Institute of Geophysics, National Academy of Sciences of Ukraine, Lviv, Ukraine</i> THE RESULTS OF LONG-TERM TECTONOMAGNETIC RESEARCH ON ANTARCTIC GEOPHYSICAL POLIGON</p>	<p>10:40-11:00 (07.40-08.00 UTC)</p>
4	<p><u>T.Klymkovych</u> <i>Lviv Polytechnic National University, Lviv, Ukraine</i> VARIATIONS OF INDUCTION VECTORS AT THE AIA MAGNETIC OBSERVATORY (AKADEMIK VERNADSKY STATION)</p>	<p>11:00-11:20 (08.00-08.20 UTC)</p>
5	<p><u>O.I. Liashchuk</u>¹, <u>V.K. Zhukovsky</u>², <u>Ye.V. Kariagin</u>¹, <u>Yu.A. Andrushchenko</u>¹, <u>Yu.S. Otruba</u>³ ¹ <i>Main Center of Special Monitoring, Gorodok. Ukraine</i> ² <i>K.D. Ushynsky South Ukrainian National Pedagogical University, Odesa, Ukraine</i> ³ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> SEISMO-ACOUSTIC MONITORING OF THE CRYOSPHERE IN THE VERNADSKY STATION REGION</p>	<p>11:20-11:40 (08.20-08.40 UTC)</p>
6	<p><u>O.I. Liashchuk</u>¹, <u>Ye.V. Kariagin</u>¹, <u>Yu.A. Andrushchenko</u>¹, <u>V.K. Zhukovsky</u>², <u>Yu.S. Otruba</u>³, <u>S.V. Dovbysh</u>¹ ¹ <i>Main Center of Special Monitoring, National Space Facilities Control and Test Center, State Space Agency of Ukraine, Gorodok. Ukraine</i> ² <i>K.D. Ushynsky South Ukrainian National Pedagogical University, Odesa, Ukraine</i> ³ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> INFRA-SOUND ARRAY OBSERVATION IN THE ANTARCTIC PENINSULA REGION, FIRST RESULTS</p>	<p>11:40-12:00 (08.40-09.00 UTC)</p>
7	<p><u>G.V. Melnyk</u>¹, <u>V.G. Bakhmutov</u>^{1,2}, <u>N.A. Kilifarska</u>³, <u>O.Ja. Shenderovska</u>¹ ¹ <i>S.I. Subbotin Institute of Geophysics, National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i></p>	<p>12:00-12:20 (09.00-09.20 UTC)</p>

	³ <i>National Institute of Geophysics, Geodesy and Geography, Bulgarian Academy of Sciences, Sofia, Bulgaria</i> CHANGES IN THE GEOMAGNETIC FIELD AND SURFACE AIR TEMPERATURE IN ANTARCTICA	
8	<u>G.V. Artemenko</u> ¹ , V.G. Bakhmutov ² ¹ <i>M.P. Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of the National Academy of Sciences of Ukraine, Kiev, Ukraine</i> ² <i>S.I. Subbotin Institute of Geophysics, National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> SIGNS OF ORE MINERALIZATION IN THE AREA OF THE ARGENTINE ISLANDS	12:20-12:40 (09.20-09.40 UTC)
9	<u>V. Bakhmutov</u> ^{1,2} , O. Mytrokhyn ³ ¹ <i>Institute of Geophysics National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine;</i> ³ <i>Taras Shevchenko National University of Kyiv;</i> MAGNETIC TEXTURE OF GABBROIDS OF THE WILHELM ARCHIPELAGO AS AN INDICATOR OF REGIONAL TECTONIC PROCESSES	12:40-13:00 (09.40-10.00 UTC)
10	<u>K. Lamsters</u> ¹ , J. Karušs ¹ , M. Krievāns ¹ , J. Ješkins ¹ , P. Džeriņš ¹ , A. Chernov ² , I. Sobota ^{3,4} ¹ <i>University of Latvia, Faculty of Geography and Earth Sciences, Riga, Latvia;</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv;</i> ³ <i>Faculty of Earth Sciences and Spatial Management, Nicolaus Copernicus University in Toruń, Toruń, Poland.</i> ⁴ <i>Polar Research Center, Faculty of Earth Sciences and Spatial Management, Nicolaus Copernicus University in Toruń, Toruń, Poland</i> GEOPHYSICAL RESEARCH OF ANTARCTIC AND ARCTIC GLACIERS AT THE UNIVERSITY OF LATVIA	13:00-13:20 (10.00-10.20 UTC)
11	<u>T.P.Yegorova</u> ¹ , A.V., Murovskaya ¹ , V.G.Bakhmutov ^{1,2} , A.V.Mytrokhyn ³ , V.V.Shpyra ¹ ¹ <i>Institute of Geophysics National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ³ <i>Taras Shevchenko National University of Kyiv, Ukraine</i> EVOLUTION OF CENOZOIC MAGMATISM OF THE ANTARCTIC PENINSULA ON THE EXAMPLE OF THE BARCHANS-FORGE ISLANDS ACCORDING TO GEOLOGICAL AND GEOPHYSICAL DATA	13:20-13:40 (10.20-10.40 UTC)
12	<u>K.Yu.Tkachenko</u> <i>Institute of Geological Sciences NAS of Ukraine, Kyiv, Ukraine</i> PROSPECTS OF STUDY OF ELECTRIC PHENOMENA IN SNOW-AIR INTERACTIONS	13:40-14:00 (10.40-11.00 UTC)
13	<u>Kh.I. Marusazh</u> , V.M. Hlotov <i>Institute of Geodesy, Lviv Polytechnic National University, Lviv, Ukraine</i> THE COMPLEX STUDY FOR DETERMINATION OF THE VOLUME CHANGES OF GLACIERS ON GALINDEZ AND WINTER ISLANDS	14:00-14:20 (11.00-11.20 UTC)
14	<u>I. Savchyn</u> , K. Tretyak <i>Lviv Polytechnic National University, Institute of Geodesy, Lviv, Ukraine</i> CRYSTAL STRAIN ANALYSIS IN THE PENOLA STRAIT - LEMAIRE CHANNEL FAULT AREA	14:20-14:40 (11.20-11.40 UTC)
	POSTERS:	14:40-16:00 (11.40-13.00 UTC)
1	V.G.Pysarenko <i>V.M. Glushkov Institute of Cybernetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> THE CONCEPT OF ANTARCTIC GLACIER MELTING PROCESSES MONITORING ORGANIZATION	14:40-15:00 (11.40-12.00 UTC)
2	<u>V.D. Soloviev</u> ¹ , N.A. Yakymchuk ² , I.N. Korchagin ¹ ¹ <i>Institute of Geophysics of Ukraine National Academy of Science, Kyiv, Ukraine</i> ² <i>Institute of Applied Problems of Ecology, Geophysics and Geochemistry, Kyiv, Ukraine</i> GIANT STRUCTURE AT WILKES LAND (EAST ANTARCTICA) METEORITE CRATER OR VOLCANO?	15:00-15:15 (12.00-12.15 UTC)
3	<u>V.D. Soloviev</u> ¹ , V.G. Bakhmutov ¹ , N.A. Yakymchuk ² , I.N. Korchagin ¹ ¹ <i>Institute of Geophysics of Ukraine National Academy of Sciences, Kyiv, Ukraine,</i> ² <i>Institute of Applied Problems of Ecology, Geophysics and Geochemistry, Kyiv, Ukraine</i> THE FIRST ACTIVE METHANE SEEPS IN ANTARCTICA: NEW EXPERIMENTAL DATA	15:15-15:30 (12.15-12.30 UTC)

4	<p><u>S.V. Kadurin</u>, K.P. Andreeva <i>Odessa I.I. Mechnikov National University, Odesa</i> PETROGRAPHIC AND MINERALOGICAL STUDY OF MAGMATIC ROCKS IN UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION AREA</p>	<p>15:30-15:45 (12.30-12.45 UTC)</p>
5	<p><u>M.I. Orlyuk</u>, A.O. Romenets <i>S.I. Subbotin Institute of Geophysics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> SPATIAL-TIME STRUCTURE OF GEOMAGNETIC FIELD FOR THE TERRITORIES OF UKRAINE, OF YAMAL (RUSSIA) AND AROUND THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION: ECOLOGICAL ASPECT</p>	<p>15:45-16:00 (12.45-13.00 UTC)</p>

May 12, 2021 (Wednesday)
10.00 – 19.20 Kyiv time zone
(07.00 – 14.20 UTC)

PHYSICAL SCIENCES

Chairpersons: Oleksandr Koloskov, Andriy Zalizovski

1	<p><u>Yu.G. Rapoport</u>^{1,2}, V.M. Reshetnyk¹, M. Hayakawa³, V.V. Grimalsky⁴, O.V. Agapitov⁵, A.V. Grytsai¹, A.I. Liashchuk², V.M. Ivchenko¹, A.K. Fedorenko^{6,1}, S.S. Petrishchevskii¹, V.N. Fedun⁷</p> <p>¹Taras Shevchenko National University of Kyiv, Ukraine ²National Center for Control and Testing of Space Facilities of the State Space Agency of Ukraine (NCCSSAU), Kyiv, Ukraine ³Hayakawa Institute of Seismo Electromagnetics, Co. Ltd., Japan ⁴CIICAp, Autonomous University of State Morelos (UAEM), Cuernavaca, Mor., Mexico ⁵University of California, Berkeley, USA ⁶Space Research Institute of National Academy of Sciences of Ukraine and State Space Agency of Ukraine, Kyiv, Ukraine ⁷The University of Sheffield, UK</p> <p>MODELING ULF AND VLF ACTIVITY IN THE NEAR-EARTH SPACE ENVIRONMENT: BOUNDARY CONDITIONS AND PROPAGATION EFFECTS</p>	<p>10:00-10:20 (07.00-07.20 UTC)</p>
2	<p><u>O.V. Bogomaz</u>¹, M.O. Shulha^{1,2}, D.V. Kotov^{1,2}, T.G. Zhivolup¹, A.V. Koloskov^{3,4}, A.V. Zalizovski^{3,4,5}, V.M. Lisachenko³</p> <p>¹Institute of Ionosphere, NAS of Ukraine, Kharkiv, Ukraine ²National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine ³Institute of Radio Astronomy of NASU, Kharkiv, Ukraine ⁴State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine ⁵Space Research Centre of Polish Academy of Sciences, Warsaw, Poland</p> <p>TESTING THE ARTIFICIAL NEURAL NETWORK FOR SCALING IONOGRAMS OBTAINED AT THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION</p>	<p>10:20-10:40 (07.20-07.40 UTC)</p>
3	<p><u>A.V. Grytsai</u>¹, O.M. Evtushevsky¹, G.P. Milinevsky^{1,2} and A. Klekociuk^{3,4}</p> <p>¹Taras Shevchenko National University of Kyiv, Kyiv, Ukraine ²National Antarctic Scientific Center, Kyiv, Ukraine ³Antarctic Climate Program, Australian Antarctic Division, Kingston, Australia ⁴Department of Physics, University of Adelaide, Adelaide, Australia</p> <p>PLANETARY WAVE INFLUENCE ON THE OZONE HOLE IN 2010–2020</p>	<p>10:40-11:00 (07.40-08.00 UTC)</p>
4	<p><u>A.K. Fedorenko</u>, O.K. Cheremnykh, E.I. Kryuchkov, Yu.O. Klymenko</p> <p>Space Research Institute of National Academy of Science of Ukraine and State Space Agency of Ukraine, Kyiv, Ukraine</p> <p>WIND CONTROL OF DIRECTIONS PROPAGATION AND AMPLITUDES OF WAVE PERTURBATIONS IN THE UPPER ATMOSPHERE OVER ANTARCTICA</p>	<p>11:00-11:20 (08.00-08.20 UTC)</p>
5	<p>O. Ivaniha</p> <p>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</p> <p>VIEW ON TROPOPAUSE BEHAVIOR OVER ANTARCTICA</p>	<p>11:20-11:40 (08.20-08.40 UTC)</p>
6	<p><u>Andriy Zalizovski</u>^{1,2,3}, Yuri Yampolski¹, Oleksandr Koloskov^{1,2}, Sergei Kashcheyev¹, Bogdan Gavrylyuk^{1,2}, Olesia Charkina¹</p> <p>¹ Institute of Radio Astronomy of NAS of Ukraine, Kharkiv, Ukraine ² State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine ³ Space Research Centre of Polish Academy of Sciences, Poland</p> <p>HF RADIO SOUNDING OF THE IONOSPHERE ON LONG-DISTANCE RADIO PATHS WITH A RECEIVING SITE AT AKADEMIK VERNADSKY STATION: THE RESULTS OF THE FIRST 11 YEARS OF OBSERVATIONS</p>	<p>11:40-12:00 (08.40-09.00 UTC)</p>

7	<p><u>Oleksandr Koloskov</u>^{1,2}, <u>Andriy Zalizovski</u>^{1,2,3}, <u>Yuri Yampolski</u>¹, <u>Gennady Milikh</u>⁴, <u>Evgeny Mishin</u>⁵, <u>Artem Reznichenko</u>¹, <u>Michael Rietveld</u>⁶, <u>Erik Varberg</u>⁶, <u>Juha Vierinen</u>⁶</p> <p>¹<i>Institute of Radio Astronomy of NAS of Ukraine, Kharkiv, Ukraine</i> ²<i>State Institution National Antarctic Scientific Center, MES of Ukraine, Kyiv, Ukraine</i> ³<i>Space Research Centre of Polish Academy of Sciences, Warsaw, Poland</i> ⁴<i>Department of Astronomy, University of Maryland, College Park, MD, USA</i> ⁵<i>Space Vehicles Directorate, Air Force Research Laboratory, Albuquerque, NM, USA</i> ⁶<i>UiT The Arctic University of Norway, Tromsø, Norway</i></p> <p>HF RESPONSE IN ANTARCTICA DURING EISCAT-UKRAINE HEATING CAMPAIGN (JUNE, 2020)</p>	<p>12:00-12:20 (09.00-09.20 UTC)</p>
8	<p><u>Andriy Zalizovski</u>^{1,2,3}, <u>Iwona Stanislawska</u>², <u>Lukasz Tomasik</u>²</p> <p>¹<i>Institute of Radio Astronomy of NAS of Ukraine, Kharkiv, Ukraine</i> ²<i>Space Research Centre of Polish Academy of Sciences, Poland</i> ³<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i></p> <p>ADVANCED TECHNIQUE FOR ESTIMATING THE MONTHLY MEDIAN IONOSPHERIC PARAMETERS AT THE AURORAL REGIONS</p>	<p>12:20-12:40 (09.20-09.40 UTC)</p>
9	<p><u>M.O. Shulha</u>^{1,2}, <u>D. V. Kotov</u>¹, <u>O.V. Bogomaz</u>¹, <u>T.G. Zhivolup</u>¹, <u>O.V. Koloskov</u>^{3,4}, <u>A.V. Zalizovski</u>^{3,4,5}, <u>V.M. Lisachenko</u>³, <u>A.I. Reznichenko</u>³</p> <p>¹<i>Institute of Ionosphere, NAS and MES of Ukraine, Kharkiv, Ukraine</i> ²<i>National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine</i> ³<i>Institute of Radio Astronomy of NASU, Kharkiv, Ukraine</i> ⁴<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ⁵<i>Space Research Centre of Polish Academy of Sciences, Warsaw, Poland</i></p> <p>SEASONAL EFFECTS IN VARIATIONS OF ELECTRON DENSITY OVER THE UKRAINIAN ANTARCTIC STATION: RESULTS OF OBSERVATIONS AND MODELLING</p>	<p>12:40-13:00 (09.40-10.00 UTC)</p>
10	<p><u>M.O. Shulha</u>^{1,2}, <u>D.V. Kotov</u>¹, <u>O.V. Bogomaz</u>¹, <u>T.G. Zhivolup</u>¹, <u>O.V. Koloskov</u>^{3,4}, <u>A.V. Zalizovski</u>^{3,4,5}, <u>V.M. Lisachenko</u>³, <u>A.I. Reznichenko</u>³</p> <p>¹<i>Institute of Ionosphere, NAS and MES of Ukraine, Kharkiv, Ukraine</i> ²<i>National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine</i> ³<i>Institute of Radio Astronomy of NASU, Kharkiv, Ukraine</i> ⁴<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ⁵<i>Space Research Centre of Polish Academy of Sciences, Warsaw, Poland</i></p> <p>RESULTS OF IONOSPHERE-PLASMASPHERE SYSTEM INVESTIGATION IN THE AMERICAN AND EUROPEAN LONGITUDINAL SECTORS FOR 2020</p>	<p>13:00-13:20 (10.00-10.20 UTC)</p>
11	<p><u>O.V. Koloskov</u>^{1,2}, <u>Y.M Yampolski</u>¹, <u>O.V. Budanov</u>¹, <u>Chis Hall</u>³</p> <p>¹<i>Institute of Radio Astronomy of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ³<i>UiT The Arctic University of Norway, Tromsø, Norway</i></p> <p>TWO POSITION ANTARCTIC-ARCTIC "COUNTER" OF INTENSE LIGHTNING DISCHARGES</p>	<p>13:20-13:40 (10.20-10.40 UTC)</p>
12	<p><u>O.V. Koloskov</u>^{1,2}, <u>Y.M Yampolski</u>¹, <u>O.V. Budanov</u>¹</p> <p>¹<i>Institute of Radio Astronomy of National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i></p> <p>MONITORING OF THE POWER LINE EMISSION FROM NORTH AMERICA AT THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION</p>	<p>13:40-14:00 (10.40-11.00 UTC)</p>
13	<p><u>Andriy Zalizovski</u>^{1,2,3}, <u>Volodymyr Lisachenko</u>¹, <u>Bogdan Gavrylyuk</u>^{1,2}</p> <p>¹<i>Institute of Radio Astronomy of NAS of Ukraine, Kharkiv, Ukraine</i> ²<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ³<i>Space Research Centre of Polish Academy of Sciences, Poland</i></p> <p>THE ROLE OF SPORADIC E LAYERS IN LONG DISTANCE HF PROPAGATION TOWARD THE ANTARCTIC PENINSULA</p>	<p>14:00-14:20 (11.00-11.20 UTC)</p>
14	<p><u>A. A. Shvets</u>¹, <u>O.V. Budanov</u>², <u>O.V. Koloskov</u>^{2,3}, <u>A.P. Nickolaenko</u>¹, <u>A.V. Shvets</u>¹</p> <p>¹<i>O.Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> ²<i>Institute of Radio Astronomy of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> ³<i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i></p>	<p>14:20-14:40 (11.20-11.40 UTC)</p>

	DEVIATIONS OF THE AZIMUTH OF ELF BURSTS ASSOCIATED WITH THE “DAY-NIGHT” NONUNIFORMITY	
15	<u>A.V. Shvets</u> , A. A. Shvets <i>O.Ya. Usikov Institute of Radio Physics and Electronics of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine</i> TOMOGRAPHY OF THE WORLD THUNDERSTORM ACTIVITY: MODELING FOR TWO SUBPOLAR AND ONE MIDLATITUDE SCHUMANN RESONANCE OBSERVATORIES	14:40-15:00 (11.40-12.00 UTC)
16	<u>G.P. Milinevsky</u> ^{1,2} , A.V. Grytsai ¹ , O.M. Evtushevsky ¹ , A. Klekociuk ^{3,4} , O. Ivaniha ¹ , Y. Wang ⁵ ¹ <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> ² <i>National Antarctic Scientific Center, Kyiv, Ukraine</i> ³ <i>Antarctic Climate Program, Australian Antarctic Division, Kingston, Australia</i> ⁴ <i>Department of Physics, University of Adelaide, Adelaide, Australia</i> ⁵ <i>College of Physics, International Center of Future Science, Jilin University, Changchun, China</i> POLAR STRATOSPHERIC WARMINGS AND WEATHER PATTERN IN UKRAINE	15:00-15:20 (12.00-12.20 UTC)
17	<u>D. Pishniak</u> ¹ , B. Beznoshchenko ² , O. Pavlenko ³ ¹ <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ² <i>The Hebrew University of Jerusalem, Rehovot, Israel</i> ³ <i>Central Geophysical Observatory named after Boris Sreznevsky, Kyiv, Ukraine</i> MESOSCALE ATMOSPHERIC PROCESSES OVER THE AKADEMIK VERNADSKY STATION REGION BASED ON SIMULATION AND IN-SITU RESULTS	15:20-15:40 (12.20-12.40 UTC)
18	<u>Chyhareva A.</u> ^{1,2} , <u>Krakovska S.</u> ^{1,2} , <u>Gorodetskaya I.</u> ³ , <u>Pishniak D.</u> ² ¹ <i>National Antarctic Scientific Center of Ukraine, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ² <i>Ukrainian Hydrometeorological Institute, Kyiv, Ukraine</i> ³ <i>Centre for Environmental and Marine Studies, Department of Physics, University of Aveiro, Portugal</i> PRELIMINARY RESULTS OF PolarWRF APPLICATION FOR CLOUD AND PRECIPITATION STUDY AT UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION	15:40-16:00 (12.40-13.00 UTC)
19	<u>V.F.Martazinova</u> , V.E.Tymofeyev <i>Ukrainian Hydrometeorological Institute, the State Emergency Service of Ukraine, Kyiv, Ukraine</i> TOTAL OZONE ANOMALY OVER ANTARCTICA AND PECULIARITIES OF THE ATMOSPHERIC CIRCULATION	16:00-16:20 (13.00-13.20 UTC)
20	<u>M. Savenets</u> ¹ , L. Pysarenko ¹ , D. Pishniak ² ¹ <i>Ukrainian Hydrometeorological Institute, State Emergency Service of Ukraine and National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> THE RELATIONSHIP BETWEEN LAND SURFACE TEMPERATURE AND METEOROLOGICAL CONDITIONS ON THE ARGENTINE ISLANDS	16:20-16:40 (13.20-13.40 UTC)
21	<u>V.E.Tymofeyev</u> , O.V. Mazepa, O.G. Tatarчук <i>Ukrainian Hydrometeorological Institute, the State Emergency Service of Ukraine, Kyiv, Ukraine</i> CURRENT STATE OF GLACIOCLIMATE AT THE NORTH ANTARCTIC PENINSULA	16:40-17:00 (13.40-14.00 UTC)
22	<u>S. V. Klok</u> ¹ , A. O. Kornus ^{2,3} , O. H. Kornus ² ¹ <i>Ukrainian Hydrometeorological Institute of State Service of Emergencies of Ukraine and National Academy of Sciences of Ukraine, 37, Prospekt Nauky, Kyiv, 03028, sklok_8@ukr.net</i> ² <i>Sumy State University, Rymsky-Korsakov Street, 2, Sumy, 40007, a.kornus@ecolog.sumdu.edu.ua</i> ³ <i>Sumy State Pedagogical University named after A. S. Makarenko, Romenska Street, 87, Sumy, Ukraine, 40002, olesyakornus@gmail.com</i> THE COMPONENTS OF SEASONAL VARIABILITY OF THE SNOW DEPTH IN THE AREA OF THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION	17:00-17:20 (14.00-14.20 UTC)

May 13, 2021 (Thursday)
10.00 – 11.45 Kyiv time zone
(07.00 – 08.45 UTC)

PHYSICAL SCIENCES

Chairpersons: Oleksandr Koloskov, Andriy Zalizovski

1	V. Komorin, V. Bolshakov, Y. Dikhanov, E. Melnik <i>Research Institution "Ukrainian scientific center of Ecology of Sea", Odesa, Ukraine</i> MAIN RESULTS OF OCEANOGRAPHIC RESEARCH IN THE SOUTH ATLANTIC AND THE ATLANTIC SECTOR OF THE SOUTHERN OCEAN ACCORDING TO THE SEASON DATA 2018-2020	10:00-10:20 (07.00-07.20 UTC)
2	P. Zabroda ¹ , L. Pshenichnov ¹ , D. Marichev ² ¹ <i>Institute of Fisheries and Marine Ecology, Berdiansk, Ukraine</i> ² <i>LLC Fishing Company Neptuno, Odessa, 67500 Ukraine</i> THE RESULTS OF OBSERVATIONS USING AN UNDERWATER VIDEO RECORDING SYSTEM IN THE WEDDELL SEA IN 2020	10:20-10:40 (07.20-07.40 UTC)
3	L. Pshenichnov <i>Institute of Fisheries and Marine Ecology, Berdiansk, Ukraine</i> HISTORY AND MODERNITY OF WORK OF FISHING VESSELS OF UKRAINE IN THE WATERS OF THE SOUTHERN OCEAN	10:40-11:00 (07.40-08.00 UTC)
	POSTERS:	11:00-11:45 (08.00-08.45 UTC)
1	Yu.S. Andrienko ¹ , G.P. Milinevsky ^{1,2} , V.O. Danylevsky ¹ ¹ <i>Taras Shevchenko National University of Kyiv, Ukraine</i> ² <i>State institution National Antarctic Scientific Center Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> VERTICAL DISTRIBUTION OF OZONE IN THE ATMOSPHERE OVER KYIV AND OVER THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION ACCORDING TO UMKEHR DATA	11:00-11:15 (08.00-08.15 UTC)
2	Yu.V. Gorishnya <i>O.Ya. Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine; Kharkov, Ukraine</i> SPECTRA OF TWEED ATMOSPHERICS AND THE IMPACT OF THEIR PATHS' ORIENTATION REGARDING THE GEOMAGNETIC FIELD THROUGH OBSERVATIONS AT UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION	11:15-11:30 (08.15-08.30 UTC)
3	O.M. Evtushevsky ¹ , G.P. Milinevsky ^{1,2} and A.V. Grytsai ¹ ¹ <i>Taras Shevchenko National University of Kyiv, Kyiv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> ANNUAL CYCLE IN THE NORTHERN HEMISPHERE POLAR-TO-MIDLATITUDE OZONE AND ITS RELATION TO STATIONARY WAVE STRUCTURE	11:30-11:45 (08.30-08.45 UTC)

May 12, 2021 (Wednesday)
10.00 – 12.00 Kyiv time zone
(07.00 – 09.00 UTC)

NEW TECHNOLOGIES AND EQUIPMENT

Chairpersons: Viacheslav Marchenko

1	V. Bazhenov, <u>O. Lukianchenko</u> , M. Vabishchevych, O. Paliy <i>Kyiv National University of Construction and Architecture (KNUCA), Kyiv, Ukraine</i> PRESSING ISSUES OF TROUBLE-FREE OPERATION AND MODERNIZATION OF THE INFRASTRUCTURE OF THE UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION	10:00-10:20 (07.00-07.20 UTC)
2	S. Tsybulnyk <i>Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine</i> CURRENT STATE AND PERSPECTIVES ON FUEL TANK PROTECTION	10:00-10:40 (07.20-07:40 UTC)
3	<u>Viktor B. Raspopov</u> , Vadim M. Semyanovsky <i>Research and Training Center for Applied Informatics of the National Academy of Sciences of Ukraine, Kyiv, Ukraine</i> YOUTH ECOLOGICAL PROJECT "SOLAR-HYDROGEN ENERGY FOR UKRAINIAN ANTARCTIC AKADEMIK VERNADSKY STATION"	10:40-11:00 (07.40-08.00 UTC)
	POSTERS:	11:00-12:20 (08.00-09.20 UTC)
1	<u>A. Marusenkov</u> ¹ , S. Leonov ¹ , V. Korepanov ¹ , Yu. Otruba ² , M. Leonov ² ¹ <i>Lviv Center of Institute for Space Research of NAN and SSA of Ukraine, Lviv, Ukraine</i> ² <i>State Institution National Antarctic Scientific Center, Ministry of Education and Science of Ukraine, Kyiv, Ukraine</i> UPGRADE OF THE GEOMAGNETIC OBSERVATORY "ARGENTINE ISLANDS": NEW TECHNOLOGIES AND EQUIPMENT	11:00-11:20 (08.00-08.20 UTC)
2	Yu. M. Posypaiko <i>E.O. Paton Institute of Electric Welding, Kyiv, Ukraine</i> MONITORING OF TECHNICAL CONDITION OF TANKS AT UKRAINIAN ANTARTIC AKADEMIK VERNADSKY STATION	11:20-11:40 (08.20-08.40 UTC)
3	<u>G. Lizunov</u> , L. Galkovska, O. Parnowski, O. Protas, O. Piankova, V. Reshetnyk <i>Space Research Institute NAS of Ukraine and SSA of Ukraine, Kyiv, Ukraine</i> ON THE ANTARCTIC RESEARCH DATA INFORMATION SYSTEM CONCEPT	11:40-12:00 (08.40-09.00 UTC)