

Far Eastern Federal University  
Botanical Garden-Institute FEB RAS

# **PROGRAM**

**of the conference  
“Climate Change Constraints and  
Opportunities in the Asia-Pacific  
Region: Human-Biosphere-  
Atmosphere Interactions  
and Green Growth”**

**October 24–26, 2017  
Vladivostok, Russia**

Vladivostok 2017

**Organization:**

Far Eastern Federal University  
Botanical Garden-Institute FEB RAS

**Partners:**

Far Eastern Climate Smart Lab (Russia); ITC “Korpus” (Russia); Picarro (USA); Sikhote-Alin Nature Reserve (Russia); Russian State Agrarian University – Moscow Timiryazev Agricultural Academy (Russia); University of Tuscia (Italy); Seconda Università di Napoli (Italy); Euro-Mediterranean Center for Climate Change Foundation (Italy); Seoul National University (Korea); Peking University (China); Vrije Universiteit Amsterdam (The Netherlands); University of Helsinki (Finland); University Statale of Milan (Italy); Officinae Verdi SpA (Italy); Far Eastern Branch of the Russian Academy of Sciences (Russia); Dept. of Natural Resources and Environmental Protection (Primorsky Krai Government, Russia); Dept. of Environmental Protection and Nature Management (Vladivostok City Government, Russia); Coordination Council on the problems of ecology of Primorsky Krai (Russia); Ussuriysk State Nature Reserve named after V.L.Komarov (Russia); Lazovsky State Nature Reserve (Russia); Far Eastern Marine Biosphere Reserve (Russia); Primorsky Administration for Hydrometeorology and Environmental Monitoring (Russia)

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Abstracts of the conference “Climate Change Constraints and Opportunities in the Asia-Pacific Region: Human-Biosphere-Atmosphere Interactions and Green Growth”, October 24–26, 2017, Vladivostok, Russia. Vladivostok: BGI FEB RAS, 2017. 60 pp.

The abstracts of papers presented to the conference “Climate Change Constraints and Opportunities in the Asia-Pacific Region: Human-Biosphere-Atmosphere Interactions and Green Growth” held in Vladivostok, Russia, 24–26 October 2017 are presented in this brochure.

Editors: Pavel V. Krestov & Luca Bellelli Marchesini

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**Support:**

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Euro-Mediterranean Center on Climate Change

**24 October, 2017**8<sup>30</sup>~12<sup>00</sup> Registration, poster mounting09<sup>30</sup>~10<sup>00</sup> OPENING CEREMONY**GENERAL SESSION****Introduction to the Conference themes****MODERATOR: Riccardo Valentini**


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 10<sup>00</sup>~10<sup>30</sup> **Antonio NAVARRA.** Climate Change studies at the EuroMediterranean Center on Climate Change
 

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10<sup>30</sup>~11<sup>00</sup> **Sandro FUZZI.** Air quality and climate: two sides of the same coin11<sup>00</sup>~11<sup>30</sup> COFFEE/TEA BREAK11<sup>30</sup>~12<sup>00</sup> **Han DOLMAN.** The carbon and methane balance of the Siberian Arctic Tundra on permafrost12<sup>00</sup>~12<sup>30</sup> **Shushi PENG & Shilong PIAO.** Biogeophysical feedbacks of land use/cover change on climate12<sup>30</sup>~14<sup>00</sup> LUNCH14<sup>00</sup>~14<sup>30</sup> **Andrey V. ADRIANOV.** Regional climate changes and marine biodiversity in the Sea of Japan/East Sea14<sup>30</sup>~15<sup>00</sup> **Ivan I. VASENEV.** XXI century challenges in Climate Change opportunities and constrains for RF agriculture15<sup>00</sup>~15<sup>30</sup> COFFEE/TEA BREAK15<sup>30</sup>~16<sup>00</sup> **Joon KIM.** Climate smart investment with visioning by monitoring energy, matter and information flows16<sup>00</sup>~16<sup>30</sup> **Francesco BOSELLO.** Macroeconomic implications of climate change: challenges, methodologies and latest findings16<sup>40</sup>~18<sup>00</sup> ROUND TABLE DISCUSSION**“Will the Arctic Northern shipping route become a reality?”**

MODERATORS: Antonio Navarra, Nadia Pinardi, Kirill Golokhvast, Boris Kubai Silvio Gualdi &amp; stakeholders

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**25 October, 2017**

**MORNING SESSION****Atmospheric processes and climate predictions****MODERATOR: Sandro Fuzzi**

- 
- 09<sup>00</sup>~09<sup>30</sup> **Silvio GUALDI.** The Seasonal Forecasting Activities at CMCC
- 
- 09<sup>30</sup>~10<sup>00</sup> **Tukka PETÄJÄ.** Benefits of comprehensive, continuous multiplatform observations and their synthesis
- 
- 10<sup>00</sup>~10<sup>15</sup> **Boris KUBAY.** Regional climate
- 
- 10<sup>15</sup>~10<sup>30</sup> **Giovanni ALOISIO.** Cutting-edge computational research to investigate and address the climate change challenge
- 
- 10<sup>30</sup>~10<sup>45</sup> **Olga N. UKHVATKINA, Alexander M. OMElKO, Alexander A. ZHMERENETSKY & Tatiana Y. PETRENKO.** Dendroclimatic reconstruction of autumn – winter minimum temperature in the Southern Sikhote-Alin, Russian Far East since 1509 AD
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- 10<sup>45</sup>~11<sup>00</sup> **Nadezhda A. EFANOVA.** Influence of internal waves on the color of the marine surface
- 
- 11<sup>00</sup>~11<sup>15</sup> **Ilona M. RODNIKOVA, Alyona G. KISELYOVA, Kirill S. GANZEY, Marina S. LYACHEVSKAYA & Nina F. PSHENICHNIKOVA.** Climate change and anthropogenic pressure consequences for environmental diversity: a case study of islands of Prymorsky krai
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- 11<sup>15</sup>~11<sup>30</sup> **Marina L. SIDORENKO.** Ammonia-oxidizing bacteria respond to multifactorial global change
- 
- 11<sup>30</sup>~12<sup>00</sup> COFFEE/TEA BREAK
- 

**EXPRESS SESSION****MODERATOR: Olga V. Nesterova**

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- 12<sup>00</sup>~12<sup>05</sup> **Anna S. VOZMISHCHEVA, Olga N. UKHVATKINA, Pavel V. KRESTOV, Vladimir V. KUKARSKIKH, Alexander M. OMElKO & Alexander A. ZHMERENETSKY.** Reconstruction of spring-summer precipitation and temperature from tree-ring data for the middle Sikhote-Alin Mountains, Russia
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- 12<sup>05</sup>~12<sup>10</sup> **Oleg V. POLOKHIN.** Diversity of vegetation and soils of the north-eastern part of the island Simushir
- 
- 12<sup>10</sup>~12<sup>15</sup> **Ekaterina V. PANFILOVA & Yana V. KIM.** Assessment of beetle species diversity of the genus *Carabina* in the forest area of Primorskaya State Academy of Agriculture
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- 12<sup>15</sup>~12<sup>20</sup> **Mariya M. SURZHIK & Vladimir I. OZNOBIKHIN.** Mountain-Taiga Station as an object for geo-environmental integrated monitoring of the mountain-valley area
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- 12<sup>20</sup>~12<sup>25</sup> **Alla B. KHOLINA, Marina N. KOLDAEVA & Valentin V. YAKUBOV.** Phylogenetic relationships among congeneric *Oxytropis* species from Asian Pacific region based on trnS-trnG sequences
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- 12<sup>25</sup>~12<sup>30</sup> **Anastasia V. BRIKMANS.** Anti-erosion properties of carbonate soils in the climatic conditions of the Primorsky region
- 
- 12<sup>30</sup>~14<sup>00</sup> LUNCH
- 

**EVENING SESSION****Biogeochemical Cycles and Natural and Agricultural Ecosystems – 1****MODERATOR: Tommaso Chiti**

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- 14<sup>00</sup>~14<sup>30</sup> **Tommaso CHITI & Riccardo VALENTINI.** Radiocarbon measurements as a reliable tool to determine soil heterotrophic respiration
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- 14<sup>30</sup>~15<sup>00</sup> **Paolo DE ANGELIS.** Impact of the climate change on forest ecosystems: an overview of the results obtained in manipulative experiments at field scale
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- 15<sup>00</sup>~15<sup>15</sup> **Luca BELELLI MARCHESINI, Sergey KOROVIKII, Alina TOTSKAYA, Dmitry SHERSTNEV & Valentina TREGUBOVA.** Soil greenhouse gas fluxes of natural and artificial land cover types within the FEFU campus area on Russky Island (Vladivostok, Russia)
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- 15<sup>15</sup>~15<sup>30</sup> **Simona CASTALDI.** The interaction of plant derived charcoal with biogeochemical cycles in natural and agricultural ecosystems
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- 15<sup>30</sup>~15<sup>45</sup> **Vladimir SHAMOV, Boris I. GARTSMAN, T.S. GUBAREVA, A.G. BOLDESKUL, Nadezhda K. KOZHEVNIKOVA, T.N. LUTSENKO, S.Yu. LUPAKOV, E.A. SHEKMAN, A.M. TARBEEVA, G.A. CHELNOKOV, Maxim L. BURDUKOVSKIY, A.V. ORLYAKOVSKIY, A.A. MIKHAILIK, I.V. TOKAREV, A.V. KOZACHEK.** Biogeochemical tracing techniques to study the flood runoff generation processes at small representative catchments (case of south Pacific Russia)
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- 15<sup>45</sup>~16<sup>00</sup> **Riccardo VALENTINI, Simona CASTALDI, Ivan VASENEV, Alexis M. YAROSLAVTSEV & Olga NESTEROVA.** The TREETALKER® Network: Let's trees talk about Climate
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- 16<sup>00</sup>~16<sup>30</sup> COFFEE/TEA BREAK
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- 16<sup>30</sup>~16<sup>45</sup> **Anastasia V. MAKHNYKINA, Anatoly S. PROKUSHKIN, Sergey V. VERKHOVETS & Nataly N. KOSHURNIKOVA.** The seasonal dynamics of soil CO<sub>2</sub> fluxes in Central Siberia
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- 16<sup>45</sup>~17<sup>00</sup> **Gaia Vaglio LAURIN.** Advanced remote sensing technology for forest inventory
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- 17<sup>00</sup>~17<sup>15</sup> **Viktoria A. SEMAL, Olga V. NESTEROVA, Valentina TREGUBOVA.** Carbon in the aquasoils of the Sea of Japan
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17<sup>15</sup>~17<sup>30</sup> **Boris PSHENICHNIKOV, Marina S. LYASHCHEVSKAYA, Nina F. PSHENICHNIKOVA.** Role of Climate in Polygenic Burozem Formation in Coast-Island Zone of Southern Primorye

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17<sup>40</sup>~19<sup>00</sup> ROUND TABLE DISCUSSION

**“Russian Fluxnet and how to account for Forest Carbon within the climate policy framework of Paris agreement?”**

MODERATORS: Riccardo Valentini, Paolo De Angelis & Gaia Laurin

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**26 October, 2017**

**MORNING SESSION****Biogeochemical Cycles and Natural and Agricultural Ecosystems – 2****MODERATOR: Luca Belelli Marchesini**


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09 <sup>00</sup> ~09 <sup>15</sup>	<b>Anna I. DAVYDOVA, Sergei P. DAVYDOV, Dmitriy G. FYODOROV-DAVYDOV, Marina V. SCHELCHKOVA.</b> The organic matter and movable biophilic mineral elements of high-latitude steppes soils North-East Science Station
09 <sup>15</sup> ~09 <sup>30</sup>	<b>Aleksandr IVANOV &amp; M. BRAUN.</b> Carbon dioxide soil emissions in forest stands of the Primorskaya State Academy of Agriculture
09 <sup>30</sup> ~09 <sup>45</sup>	<b>Valeriy T. STAROZHILOV.</b> Theoretical and practical issues of landscape studies
09 <sup>45</sup> ~10 <sup>00</sup>	<b>Yana O. TIMOFEEVA.</b> Impact of redox cycles on accumulation of selected trace lithophile elements in iron-manganese nodules
10 <sup>00</sup> ~10 <sup>15</sup>	<b>Maria V. TIKHONOVA, Ivan I. VASENEV &amp; Adnane Idrissou ABDOLAYE.</b> Perennial monitoring of soil respiration at Moscow urban forest
10 <sup>15</sup> ~10 <sup>30</sup>	<b>Alexis M. YAROSLAVTSEV, Joulia L. MESHALKINA, Ilya MAZIROV &amp; Ivan I. VASENEV.</b> The influence of anthropogenic load on urban forest carbon dioxide fluxes assessed by eddy covariance measurements
10 <sup>30</sup> ~11 <sup>00</sup>	COFFEE/TEA BREAK

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**MORNING SESSION****Biodiversity and Climate Change****MODERATOR: Pavel V. Krestov**


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11 <sup>00</sup> ~11 <sup>30</sup>	<b>Alexander KAGANSKY.</b> Molecular role of biodiversity on our planet and links of the to human survival with the examples and implications in epigenetics and cancer
11 <sup>30</sup> ~11 <sup>45</sup>	<b>Sergei P. DAVYDOV, Anna I. DAVYDOVA &amp; Dmitry G. FYODOROV-DAVYDOV.</b> Vegetation recovery of at Arctic disturbed permafrost
11 <sup>45</sup> ~12 <sup>00</sup>	<b>Pavel V. KRESTOV.</b> Climatic control of zonal vegetation in Northern Asia
12 <sup>00</sup> ~12 <sup>15</sup>	<b>Sergey VENEVSKY.</b> Identifying national biodiversity hotspots using abiotic and climatic factors with modelling approach (example of China)
12 <sup>15</sup> ~12 <sup>30</sup>	<b>Mikhail PIVKIN.</b> Marine derived fungi of the northeastern Pacific
12 <sup>30</sup> ~14 <sup>00</sup>	LUNCH

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**EVENING SESSION****The New Economy of Climate Change: Low Carbon Society, Challenges and Opportunities****MODERATOR: Alexander Vovnenko**

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14<sup>00</sup>~14<sup>30</sup> **Pavel V. DRUZHININ, Olga V. POTASHEVA, Egor A. PROKOP'EV, Galina T. SHKIPEROVA, Simo LEPPÄNEN & Liisa SAIKKONEN.**  
The effect of climate change on yield in agriculture

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14<sup>30</sup>~14<sup>45</sup> **Andrea BIGANO.** Climate change Impacts on Tourism in Europe and research ideas for the Russian Far East

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14<sup>45</sup>~15<sup>00</sup> **Aleksandr B. KOSOLAPOV.** Problems and perspectives of sustainable development of tourist destination Russkii Island

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15<sup>00</sup>~15<sup>15</sup> **Valentina V. SOKOLENKO, Yuliya K. DYACHENKO & Elena A. TYURINA.** What are the prospects for the organization of the carbon market in the Russian Far East?

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15<sup>15</sup>~15<sup>30</sup> **Artur R. NAGAPETYAN.** Voluntary carbon market modeling based on economic experiments

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15<sup>30</sup>~16<sup>00</sup> COFFEE/TEA BREAK

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16<sup>00</sup>~16<sup>15</sup> **Alexander FILATOV, Mikhail VASILYEV & Roman ZAIKA.** Ownership unbundling and monopoly privileges in electricity transmission

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16<sup>15</sup>~16<sup>30</sup> **Alla A. KRAVCHENKO & Olesya O. SERGEEVA.** Consumption of Discretionary Food: Ecological, Economic and Social Aspects

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16<sup>30</sup>~16<sup>45</sup> **Stanislav V. PODOLSKIY.** Opportunities and prospects of assessment, identification of factors and ways to increase the elasticity of production of agricultural products under change of weather and climatic conditions in Primorsky Krai

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16<sup>45</sup>~17<sup>00</sup> **Tatiana N. POPOVA.** The concept of development of public non-financial reporting and the GRI (Global Reporting Initiative) standard: prospects for application in Russia

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17<sup>00</sup>~17<sup>15</sup> **Elena ZAOSTROVSKIKH.** Eastern sector of the northern sea route: problems and prospects for the development of sea transportations

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17<sup>15</sup>~17<sup>30</sup> **Alessio RUSSO.** Nature-based solutions for climate resilient cities

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17<sup>40</sup>~19<sup>00</sup> ROUND TABLE DISCUSSION

**“How to Develop Russky Island?”**

MODERATORS: Riccardo Valentini, Elena Gafforova

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**POSTER SESSION**

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**Dmitriy A. ACHKASOV, Anna S. SHCHEPELEVA, Andrey V. STEPANOV, Ivan I. VASENEV.** Soil CO<sub>2</sub> emission and organic C dynamics in the lawn constructed soils at the RTSAU field experiment

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**Daria CHERNIAK.** Habitat, distribution and prospects for the use of *Heracleum moellendorffii*

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**Larisa DOLGALEVA.** Biodiversity and climate in national park "Alchanay"

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**N.G. DZHURKA & O.V. DYOMINA.** Modelling energy economy interactions under environmental constraints

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**Alexey S. KASATKIN.** Biological productivity and annual carbon deposition in some forest formations of the Southern Sikhote-Alin

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**Serafima V. KLYSHEVSKAYA.** Soils of the Lake Khanka lowlands

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**Ekaterina A. KORSHENKO.** Total economic value of forest ecosystem services in Primorsky krai

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**Kirill A. KORZNIKOV.** Climate envelope models for temperate trees in insular sector of the Russian Far East: current and future distribution of *Kalopanax septemlobus* (Araliaceae) and *Phellodendron amurense* var. *sachalinense* (Rutaceae)

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**Dmitriy V. LYNOV.** Stock of forest litter

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**Tat'yana Y. PETRENKO.** What happens with *Picea jezoensis* population?

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**Lyudmila N. PURTOVA.** Production CO<sub>2</sub> out of soils natural and antropogenic landscapes in Southern regions of the Russian Far East

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**Nelson Ariel RODRIGUEZ ARCINIEGAS.** Comparative study of modern bio-char production methods

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**Miljan SAMARDŽIĆ, Jovica VASIN, Igor JAJIĆ, Ivan VASENEV, Irina ANDRE-EVA & Dragana LATKOVIĆ.** Forest ecosystems and their impact on soil organic matter content on former agricultural locations in Vojvodina Region

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**Andrey V. STEPANOV, Ivan I. VASENEV & Anna S. SHCHEPELEVA.** Functional-ecological assessment of organic C dynamics in soils designed for sustainable lawn ecosystems in Moscow conditions

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