

**Session A10 Improving Monitoring for Better Integrated Climate and Biodiversity Approaches, Using Environmental and Earth Observation**

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**Time: 13:30-17:00, 7th September**

**Room: 302**

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**Co-Chairs**

LIU Yalan, Aerospace Information Research Institute, Chinese Academy of Sciences, China

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MEI Linlu, International Research Center of Big Data for Sustainable Development Goals, China

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Bob O'Hara, Department of Mathematical Sciences, Norwegian University of Science and Technology, Norway

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**Hosted by LIU Yalan**

**Research on sustainable development strategies of terrestrial ecosystems under the dual impacts of climate change and human activities (invited)**

GAO Jixi (Satellite Environmental Application Center, Ministry of Ecology and Environment, China)

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**Considerations on the Kunming-Montreal Global Biodiversity Framework(invited)**

XU Haigen (Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment, China)

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**Improving monitoring for better integrated climate and biodiversity by environmental and Earth observations**

LIU Yalan (Aerospace Information Research Institute, Chinese Academy of Sciences, China)

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**BioClima: GeoAI and multi agent learning for real time climate biodiversity intelligence**

Charalampos Paraskevas (Neuralio A.I, Thessaloniki, Greece)

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**Development, achievements, and prospects of Chinese Forest Ecosystem Research Network (invited)**

NIU Xiang (on behalf of Wang Bing) (Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forestry, China)

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**The construction of a monitoring system and platform for human and wildlife protection under the socio-ecological coupling system (invited)**

YANG Biao (Beijing Entrepreneur Environmental Protection Fund, China)

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**Round-table Discussion**

**Topic:**

**Integration, innovation and collaboration"promote the researches on biodiversity conservation and climate change mitigation**

**Host:** LIU Yalan, MEI Linlu, Bob O'Hara

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**Hosted by Prof. Bob O'Hara**

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**Introducing European Biodiversity Pilot Studies within EU–China BioClima Project (invited)**

MA Xiang (SINTEF AS, Norway)

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**Bridging conservation gaps under climate change at multiple scales to protect 30% of Earth's surface by 2030**

WU Hui (Tsinghua University, China)

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**Plant Diversity and its changes for the Mu Us Sandland in the past decade**

YE Xuehua (Institute of Botany, Chinese Academy of Sciences, China)

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**Sustainable crop rotation modified the biophysical regulation of carbon fluxes in meadow steppes**

SHAO Changliang (Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, China)

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**Differentiated Low-Carbon Zoning Using a Novel Carbon Benefit Index for Sustainable development planning**

**-a case study on Shandong's Ecosystems**

WEN Hui (Qingdao University of Technology, China)

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**Break**

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**Hosted by MEI Linlu**

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**Quantitative Remote Sensing Retrieval of Atmospheric Aerosols (invited)**

XUE Yong (Nanjing University of Information Science and Technology, China)

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**Big Data, Big Areas and Modeling Species Distributions Properly (invited)**

Bob O'Hara (Norwegian University of Science and Technology, Norway)

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**Challenges and Opportunities in UAV Sensor Fusion for High-Resolution Biodiversity Mapping (Online)**

Ionut SANDRIC (University of Bucharest, Romania)

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**Prioritizing vegetation restoration potential to facilitate snow leopard habitat recovery in Sanjiangyuan region**

LI Renqiang (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China)

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**Spatial modelling of fine-scale carbon emissions based on statistical inventories and multi-source data**

YAO Xiaojing (Aerospace Information Research Institute, Chinese Academy of Sciences, China)

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**Strategies Research on Ex-situ Conservation of threatened higher plants in Chinese botanical gardens under the goal of GBF and SDGs**

WU Jianyong (Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment, China)

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**Estimating climate change vulnerability for the Three-River-Source National Park**

LI Xinhai (Institute of Zoology, Chinese Academy of Sciences, China)

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**Construction of an Automated Ground-Based Biodiversity Monitoring System Based on Smart Monitoring Technologies**

WANG Chenbin (Nanjing Institute of Environment, Ministry of Ecology and Environment, China)

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**Evaluation of the Conservation Value of Flagship Species in China's Five National Parks**

XU Tingyu (Ecology and Nature Conservation Institute, Chinese Academy of Forestry, China)

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**Advancing Climate Change Monitoring: Derivation of Essential Climate-Relevant Variables via the XBAER Algorithm**

MEI Linlu (International Research Center of Big Data for Sustainable Development Goals, China)

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**Develop the China-Europe Joint Biodiversity Observation System**

LI Xinwu (International Research Center of Big Data for Sustainable Development Goals, China)

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