MONDAY, 29 September 2022

9:00

ROOM D

Opening Ceremony

Moderator: Diana Rizzolio

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Anthony Lehmann</td>
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<tr>
<td></td>
<td>Shona Myers</td>
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<td></td>
<td>Geraldine Pflieger</td>
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<td></td>
<td>Claire Baribaud</td>
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<td></td>
<td>Bastiaan Ibelings</td>
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<td></td>
<td>Antonio Hodgers</td>
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<tr>
<td>9:30</td>
<td>Music</td>
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<td>Marten Scheffer</td>
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Plenary I

Moderator: Shona Myers

<table>
<thead>
<tr>
<th>Paper title</th>
<th>Presenting Author</th>
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</thead>
<tbody>
<tr>
<td>The lake as a microcosm. Using ecological thinking to understand humanity</td>
<td>Marten Scheffer</td>
</tr>
<tr>
<td>The ecological and social shaping of functional diversity</td>
<td>Sandra Diaz</td>
</tr>
</tbody>
</table>

Plenary II

Moderators: Adrienne Grêt Regamey & Bas Ibelings

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>11:30</td>
<td>Posters</td>
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Plenary III

Moderator: Ole Seehausen

<table>
<thead>
<tr>
<th>Paper title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>Palaeoecological Insights from Fossil Bone Microstructure</td>
<td>Anusuya Chinsamy-Turan</td>
</tr>
</tbody>
</table>
14:15 – 17:00

ROOM D

S4.1 Land use and biodiversity

Moderator: Chinwe Ifejika Speranza

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Conservation paradigm of rich biodiversity components of sociological</td>
<td>Dr Bhoj Kumar Acharya</td>
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<tr>
<td></td>
<td>landscapes of eastern himalaya : a new ecological perspective</td>
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<td></td>
<td>Negative relationships between plant species richness and biomass production</td>
<td>Karl Andraczek</td>
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<td>disappear when reducing grassland management intensity</td>
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<td></td>
<td>Social-ecological factors influencing the aboveground biomass of</td>
<td>Samuel Hepner</td>
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<td></td>
<td>tropical forest patches</td>
<td>Dr Jean-yves</td>
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<td></td>
<td>Optimal balance between yield and biodiversity in mountain meadows</td>
<td>Humbert</td>
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<td>Nature-based solutions in south america: how effective are they at</td>
<td>Katie Lois</td>
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<td>addressing the impacts of climate change and biodiversity loss?</td>
<td>Hutchinson</td>
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<tr>
<td>16:00</td>
<td>Urbanisation globally reduces functional diversity across multiple taxa</td>
<td>Dr Sonja Knapp</td>
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<td>Organic management enhances soil quality and drives soil microbial</td>
<td>Martina Lori</td>
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<td>diversity in monoculture and agroforestry cocoa production systems</td>
<td>Christelle Ledroit</td>
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<td>Functional biodiversity in organic and conventional cotton systems</td>
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<td>Extensive yak grazing benefits biodiversity conservation of the eastern</td>
<td>Dr Li Li</td>
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<td>Qinghai-Tibetan Plateau</td>
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ROOM A

S1.1 Ecological mechanisms across scales

Moderators: Catherine Graham, Marco Túlio Pacheco Coelho

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Process-based simulation models as a tool to dissect and integrate spatial</td>
<td>Thiago Rangel</td>
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<tr>
<td></td>
<td>, temporal and organizational scales</td>
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<td></td>
<td>Spatio-temporal dynamics of amphipod assemblages in replicated small</td>
<td>Eva Cereghetti</td>
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<td>tributary streams</td>
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<td>Dissecting the drivers of speciation rates in freshwater fishes of South</td>
<td>Felipe Cerezer</td>
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<td>America</td>
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<td></td>
<td>Universality in biodiversity patterns: variation in species–temperature</td>
<td>Eliška Bohdálková</td>
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<td>and species–productivity relationships reveals prominent role of productivity</td>
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<td>in diversity gradients</td>
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<tr>
<td>16:00</td>
<td>Predators constrain intraspecific niche and phenotypic diversity in space and time</td>
<td>Phd Raul Costa-Pereira</td>
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<td>Using mechanistic models to unveil hidden biodiversity patterns and processes</td>
<td>Dr Cristian Dambros</td>
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<td></td>
<td>How do assembly rules of mutualistic communities affect their stability?</td>
<td>Francois Duchenne</td>
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<td>Beta diversity dominance: species compensation along a deforestation gradient in a neotropical forest</td>
<td>Dr Edgar J. González</td>
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**ROOM B**

**S7.1 Ecology from space**

Moderators: Sandra Luque, Maria Joao Santos

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Improving biodiversity monitoring coupling remote sensing and biodiversity data</td>
<td>Dr Sandra Luque</td>
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<td>Effects of forest structure on forest functions via vegetation-atmosphere exchanges</td>
<td>Dr. Rafael Eduardo Bernardi</td>
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<td>Accounting for spatial interactions in the upscaling of ecosystem services</td>
<td>Dr Andrea Larissa Boesing</td>
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<td>A decision support tool for planning multifunctional integrative green infrastructure</td>
<td>Dr Peta Brom Dr Jean-Baptiste Feret</td>
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<td>Monitoring forest diversity from space: perspectives with current and future satellite missions</td>
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<td>16:00</td>
<td>Is the African Great Green Wall greening? Evidence from a 20-years' time-series of satellite observations</td>
<td>Dr. Gregory Giuliani</td>
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<td>Characterizing the effect of human disturbances in tropical montane forest of borneo using landsat time series</td>
<td>Keiko Ioki</td>
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<td></td>
<td>Can satellite-based chlorophyll fluorescence detect ozone-induced primary production changes? Observations from GOSAT-1/2 before and during the COVID-19 lockdown in China</td>
<td>Dr Tomoki Kiyono Mrs Mairi Souza Oliveira</td>
</tr>
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<td>Ecological niche modelling using remote-sensed dynamic habitat index</td>
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</table>
## S2.2 Effects of Climate Change on Coastal Wetlands

Moderator: James Grace

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:15</td>
<td>Detecting feedbacks in the responses of coastal marshes to sea-level rise</td>
<td>Dr James Grace</td>
</tr>
<tr>
<td></td>
<td>Tidal marsh surface elevation adjustment to sea level rise across the conterminous United States coastline</td>
<td>Justine Neville</td>
</tr>
<tr>
<td></td>
<td>Experiments on seawater flooding: As simple as a pinch of salt?</td>
<td>Dr Mick Hanley</td>
</tr>
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<td></td>
<td>Assessing the potential changes in plant community composition in restored saltmarshes under future changes in climate</td>
<td>Dr Hannah Mossman</td>
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<td></td>
<td>Extreme precipitation and flooding lead to coastal salt marsh dieback</td>
<td>Dr Camille Stagg</td>
</tr>
</tbody>
</table>

## S1.8 Ecosystem responses to extremes

Moderator: Osvaldo Sala

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Author</th>
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</thead>
<tbody>
<tr>
<td>16:00</td>
<td>Drought-exposure history increases complementarity between plant species in response to a subsequent drought</td>
<td>Yuxin Chen</td>
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<td>Effects of experimental droughting on litter decomposition by litter invertebrates</td>
<td>Mukhlish Jamal</td>
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<td></td>
<td>Drought timing and cutting frequency impact community functional responses to water scarcity in permanent grasslands</td>
<td>Dr Pierre Mariotte</td>
</tr>
</tbody>
</table>
**ROOM E**

### 57.4 Standards for species distribution models

**Moderators:** Antoine Guisan & Antoine Adde

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Transparency and repeatability as key to improved quality standards in species distribution modelling</td>
<td>Prof Damaris Zurell</td>
</tr>
<tr>
<td></td>
<td>What R they and what do they do? A review of species distribution modeling packages in R</td>
<td>Associate Professor Linda Beaumont</td>
</tr>
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<td>A standard platform for biodiversity modelling in Switzerland</td>
<td>Antoine Adde</td>
</tr>
<tr>
<td></td>
<td>Linking ecological data to ecoinformatics data types: the Ecojulia approach to integrated, modular sdm pipelines</td>
<td>Prof. Timothée Poisot</td>
</tr>
<tr>
<td>16:00</td>
<td>Standards for choosing the appropriate background for calibrating species distribution models and ecological niche models</td>
<td>Adam Smith</td>
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<tr>
<td></td>
<td>Quantifying recording priority to motivate wildlife recorders to record where species records are needed to improve species distribution models</td>
<td>Dr Simon Rolph</td>
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<td>Assessing the effect of sample bias correction in species distribution models</td>
<td>Dr Nicolas Dubos</td>
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<td>Learning ecological species responses through a comparative analysis of statistical and machine learning models</td>
<td>Emma Chollet</td>
</tr>
<tr>
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<td>Fitting standard occupancy models to data with many single-visit sites</td>
<td>Gesa von Hirschheydt</td>
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</tbody>
</table>

**ROOM F**

### 51.3 Trait based community ecology helps us see better

**Moderators:** Mridul Thomas, Bas Ibelings

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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<tbody>
<tr>
<td>14:15</td>
<td>Trait-based ecology: from understanding patterns to predicting/forecasting dynamics in nature</td>
<td>Mridul Thomas</td>
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<tr>
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<td>Bat sonotype as a novel insight in not the Congo Basin Rainforest dynamic</td>
<td>Yoba Alenga</td>
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<td></td>
<td>Temporal trait plasticity predicts the growth of tropical trees</td>
<td>Dr Mengesha</td>
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<td>Calibrating community models with functional traits</td>
<td>Asefa</td>
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<td>Dr Loic</td>
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<td>Chalmandrier</td>
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</table>
### ROOM 2

**S1.7 Inter- and intraspecific variation in animal migration**

**Moderator: Jakob Brodersen**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper title</th>
<th>Presenting Author</th>
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</thead>
<tbody>
<tr>
<td>14:15</td>
<td>Intrapopulation-, intra-metapopulation- and inter-metapopulation variation in migratory patterns in Swiss lake-migratory trout.</td>
<td>Dr Jakob Brodersen</td>
</tr>
<tr>
<td></td>
<td>How far do stream insects travel as adults? Tracing different life stages in an isotope enrichment experiment.</td>
<td>Dr Maria Alp</td>
</tr>
<tr>
<td></td>
<td>Evolution of partial migratory behaviour and its consequences on biomass distribution</td>
<td>Gaurav Baruah</td>
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<td>Dr Jan Grimsrud Davidsen</td>
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<tr>
<td>16:00</td>
<td>Smaller migrants stay longer in migration corridor: size-dependent behavioral patterns of anadromous salmonids before oceanic migration.</td>
<td>Ryo Futamura</td>
</tr>
<tr>
<td></td>
<td>Interfering migratory movements: on the relation of wildlife-proof fences and the seasonal movements of three large african antelopes</td>
<td>Robert Hering</td>
</tr>
<tr>
<td></td>
<td>The role of migration in spatial population synchrony</td>
<td>Ellen Martin</td>
</tr>
</tbody>
</table>
ROOM 3

S2.8 Aquatic to terrestrial food web connections: reciprocal risks or biodiversity benefits?

Moderator: Cornelia Twining

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:15</td>
<td>Arthropod biodiversity increases energy and nutrient availability across terrestrial and aquatic food webs</td>
<td>Dr Cornelia Twining</td>
</tr>
<tr>
<td></td>
<td>A multi-trophic level comparison of headwater stream-riparian ecosystems and their reciprocal linkages in Yellowstone National Park</td>
<td>Jeremy Brooks</td>
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<td></td>
<td>Cross-boundary subsidies to riparian web-building spiders in an African temperate river</td>
<td>Dr Lenin Chari</td>
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<td></td>
<td>Shifting diets of shoreline wolf spiders along a salinity gradient</td>
<td>Peter Hambäck</td>
</tr>
<tr>
<td>16:00</td>
<td>Trophic transfer and biotransformation of selenium in the Aedes albopictus in the presence of hexavalent chromium</td>
<td>Dr Jung-chien Huang</td>
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<td></td>
<td>Stream degradation affects aquatic resource subsidies to ground-dwelling spiders</td>
<td>Carmen Kowarik</td>
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<td></td>
<td>The penetration of essential aquatic nutrients into adjacent terrestrial habitats</td>
<td>Tarn Preet Parmar</td>
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</tbody>
</table>

ROOM 4

2.9 Resilience of arctic and subarctic ecosystems to global change

Moderators: Milena Holmgren, Ronny Rotbarth

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Presenting Author</th>
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</thead>
<tbody>
<tr>
<td>14:15</td>
<td>Abrupt permafrost thaw and its impact on northern peatland ecology and carbon cycling</td>
<td>Dr Merritt Turetsky</td>
</tr>
<tr>
<td></td>
<td>Resilience of the Siberian lowland tundra ecosystem to thermokarst and rainfall extremes: Research highlights from the Chokurdakh Scientific Tundra Station</td>
<td>Juul Limpens</td>
</tr>
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<td>Using remote sensing, field measurements, and machine learning analyses to identify relationships between ecosystems and the thermal state of permafrost</td>
<td>Dr Thomas Douglas</td>
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<td>Greening vs browning? Surface water cover mediates how tundra and boreal ecosystems respond to climate warming</td>
<td>Dr Chi Xu</td>
</tr>
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<td>16:00</td>
<td>Tree cover changes reveal contraction of North American boreal forests</td>
<td>Ronny Rotbarth</td>
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<td>16:00</td>
<td>Birck forest resilience towards outbreaks by range expanding geometrid moths</td>
<td>Dr Jane Uhd Jepsen</td>
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<td>16:00</td>
<td>Do herbivores increase resilience of terrestrial arctic ecosystems to global change?</td>
<td>Prof Johan Olofsson</td>
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<td>How do reindeer affect permafrost condition in subarctic peatlands?</td>
<td>Dr Milena Holmgren</td>
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<td>A pan-arctic assessment of the impacts of future climate change on traditional indigenous food systems</td>
<td>Dr Jorge Garcia Molinos</td>
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<td><strong>ROOM 9</strong></td>
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<td></td>
<td><strong>S6.1 Loss of glaciers – socio-ecological implications</strong></td>
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<td><strong>Moderators:</strong> Gianalberto Losapio, Marco Caccianiga, Adrienne Grêt-Regamey</td>
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<tr>
<td>14:15</td>
<td>Microbial life in glacier-fed streams</td>
<td>Tom Battin</td>
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<td>What drives the changes of biotic communities after the global retreat of glaciers?</td>
<td>Dr Gentile Francesco Ficetola</td>
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<td>16:00</td>
<td>Beyond time’s arrow : the dynamics of proglacial margins and embryonic ecosystem development in an era of rapid glacier recession</td>
<td>Professor Stuart Lane</td>
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<td>Nature’s Contributions to people’s adaptation in deglaciating landscapes</td>
<td>Dr Sandra Lavorel</td>
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<td>Geo-ecological succession in the deglaciating Alps and Andes combining satellite imagery and multispectral drone photogrammetry with field data</td>
<td>Anais Zimmer</td>
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<td><strong>ROOM 14</strong></td>
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<td><strong>S5.3 Decolonizing science and fieldwork by dismantling white supremacy</strong></td>
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<td><strong>Moderators:</strong> Pooja Singh, Ole Seehausen, Kassandra Ford</td>
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<tr>
<td>14:15</td>
<td>Five shifts towards decoloniality and anti-oppressive praxis in ecology</td>
<td>Katti Madhusudan Mareshah Jackson</td>
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<td>Redefining the world: Challenging naming standards in the plant sciences</td>
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<tr>
<td>16:00</td>
<td>The complexities of decolonizing wildlife conservation in Africa</td>
<td>Tarik Bodasing</td>
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<td>Environmental defenders' confrontations with gendered violence in</td>
<td>Dalena Tran</td>
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<td>Southeast Asia</td>
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<td>Anti-racist transformation of Ecology, Evolutionary and Conservation</td>
<td>Ole Seehausen</td>
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<td>Biology</td>
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