

## PROGRAM

to the 7<sup>th</sup> International Symposium for Research

# *Protected Areas facing the Biodiversity Crisis*

7<sup>th</sup> – 9<sup>th</sup> of September in Vienna,  
Universitycampus Altes AKH Vienna

Supported by the federal government and the European Union

 Federal Ministry  
Republic of Austria  
Climate Action, Environment,  
Energy, Mobility,  
Innovation and Technology

  
LE 14-20  
Entwicklung für den Ländlichen Raum

European Union  
The European  
Agricultural Fund for  
Rural Development:  
Europe investing in  
rural areas.









Dear participants,

In recent years, the importance of nature reserves as recreational areas and retreats for us humans has increased significantly. But the relevance of protected areas is far greater: they are refuges for endangered species, important partners in environmental education and, as institutions, make an important contribution to the preservation of biodiversity with their research and management.

The spectrum of research in and about protected areas is correspondingly large. Research ranges from natural, environmental and social sciences to new methods and technologies in nature conservation and the potential of participative approaches. This broad, holistic view is urgently needed to face the biodiversity crisis as well as other global challenges.

I am therefore very pleased that this year's research symposium once again highlights this central role of science in and about protected areas. It promotes international exchange, fosters new innovative approaches and strengthens scientific networking at international level. Only by joining forces we can preserve our unique natural heritage for future generations.

I wish all participants an exciting event with a lively exchange and stimulating conversations,



**Leonore Gewessler, BA**

**Federal Minister for Climate Action, Environment, Energy, Mobility, Innovation and Technology**



Federal Minister  
Leonore Gewessler, BA

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# Contact for the conference

The research Symposium 2022 is organized on behalf of the umbrella organization by the team of the Thayatal National Park in cooperation with the University of Vienna as scientific partner.

Conference language: English

Conference fee: There is no conference fee.

Other expenditure: Participants have to organize and pay for their own travel, accommodation and all meals not covered by the conference.

Organized by:

**Nationalparks Austria**

Schloss Orth

2304 Orth an der Donau

<http://symposium.nationalparksaustria.at>



**University of Vienna**

Department for Botany and Biodiversity Research

Rennweg 14

1030 Vienna

[symposium.nationalparksaustria@univie.ac.at](mailto:symposium.nationalparksaustria@univie.ac.at)

## Venue

**Campus Altes AKH Vienna**

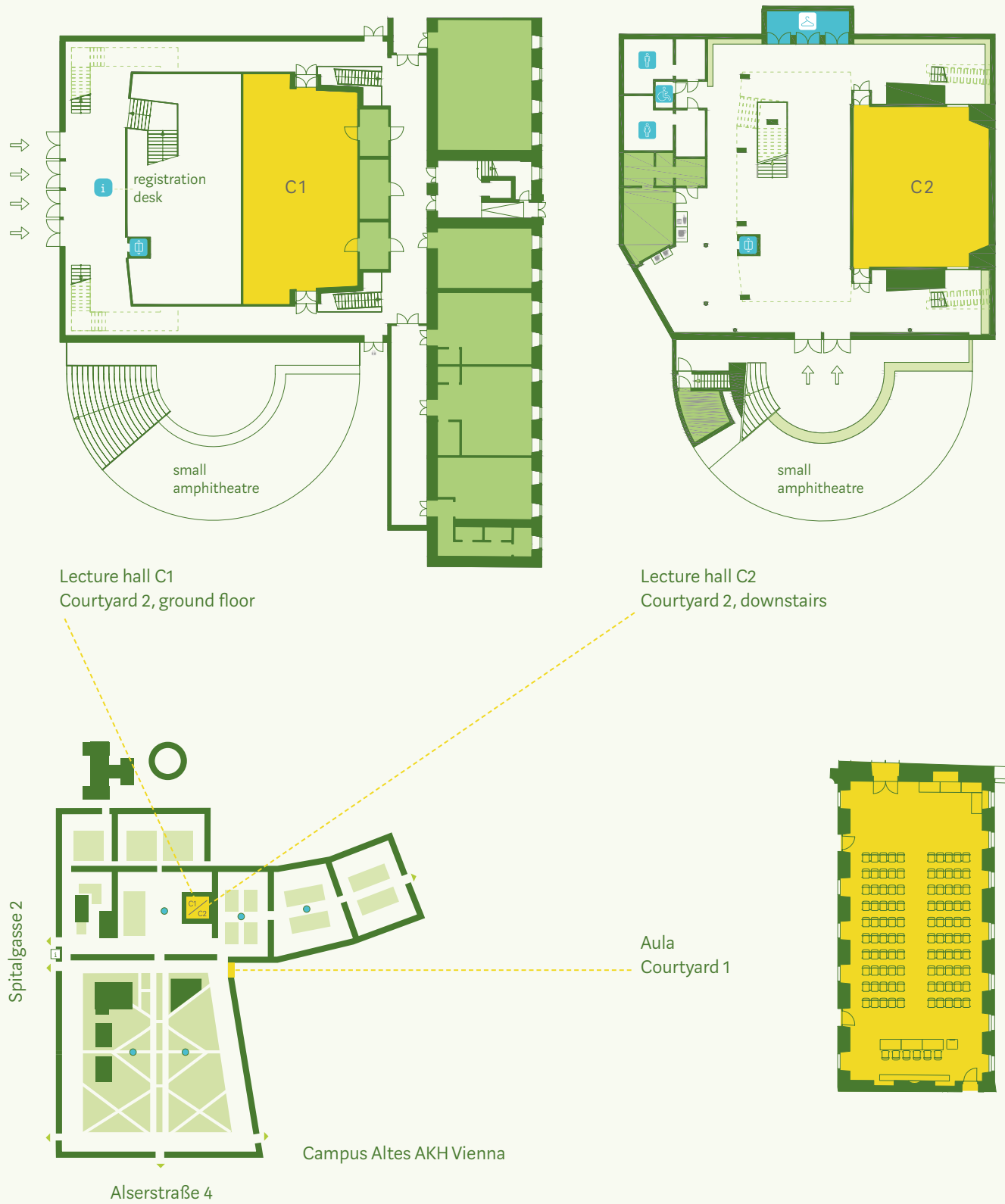
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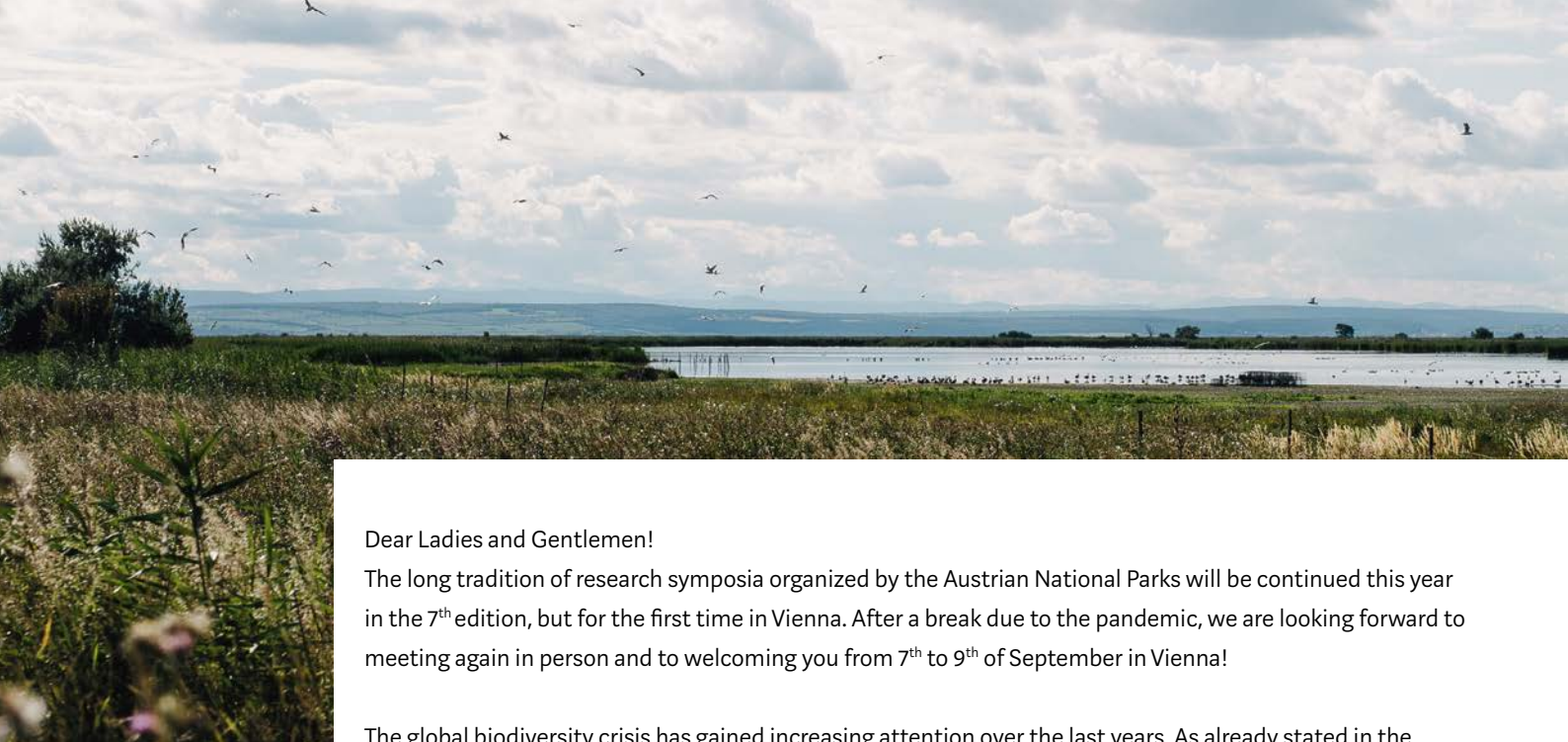
1090 Vienna

Austria

[www.univie.ac.at](http://www.univie.ac.at)

Area Map





Dear Ladies and Gentlemen!

The long tradition of research symposia organized by the Austrian National Parks will be continued this year in the 7<sup>th</sup> edition, but for the first time in Vienna. After a break due to the pandemic, we are looking forward to meeting again in person and to welcoming you from 7<sup>th</sup> to 9<sup>th</sup> of September in Vienna!

The global biodiversity crisis has gained increasing attention over the last years. As already stated in the national biodiversity strategy, protected areas contribute to counteracting this trend. At this year's **research symposium "Protected areas facing the biodiversity crisis"** we will put this topic at the center of our program!

Our conference will focus on the following four thematic blocks:

- The role of protected areas in adaptation of socio-ecological systems to global change
- Wilderness development – substitute or supplement for habitat management?
- Assessing biodiversity-foundations and methodological innovations
- How to promote and strengthen the role of protected areas in society

Thanks to the great interest of the protected area researchers and the advisory work of the scientific board, we were able to create a wide-ranging program that includes 25 sessions, 106 oral presentations and numerous poster contributions.

The covered topics range from classic biological research in salt marshes, species rich grassland & natural forest reserves to social science aspects. The presented results are thus representing a wide array of research activities in protected areas in Austria and neighboring Europe.

#### **Registration:**

The participation is free of charge. For organizational reasons, online registration is mandatory for all participants. With regard to the limited number of participants, the "first come, first serve" principle applies and registration must be made by August 28, 2022 at the latest.

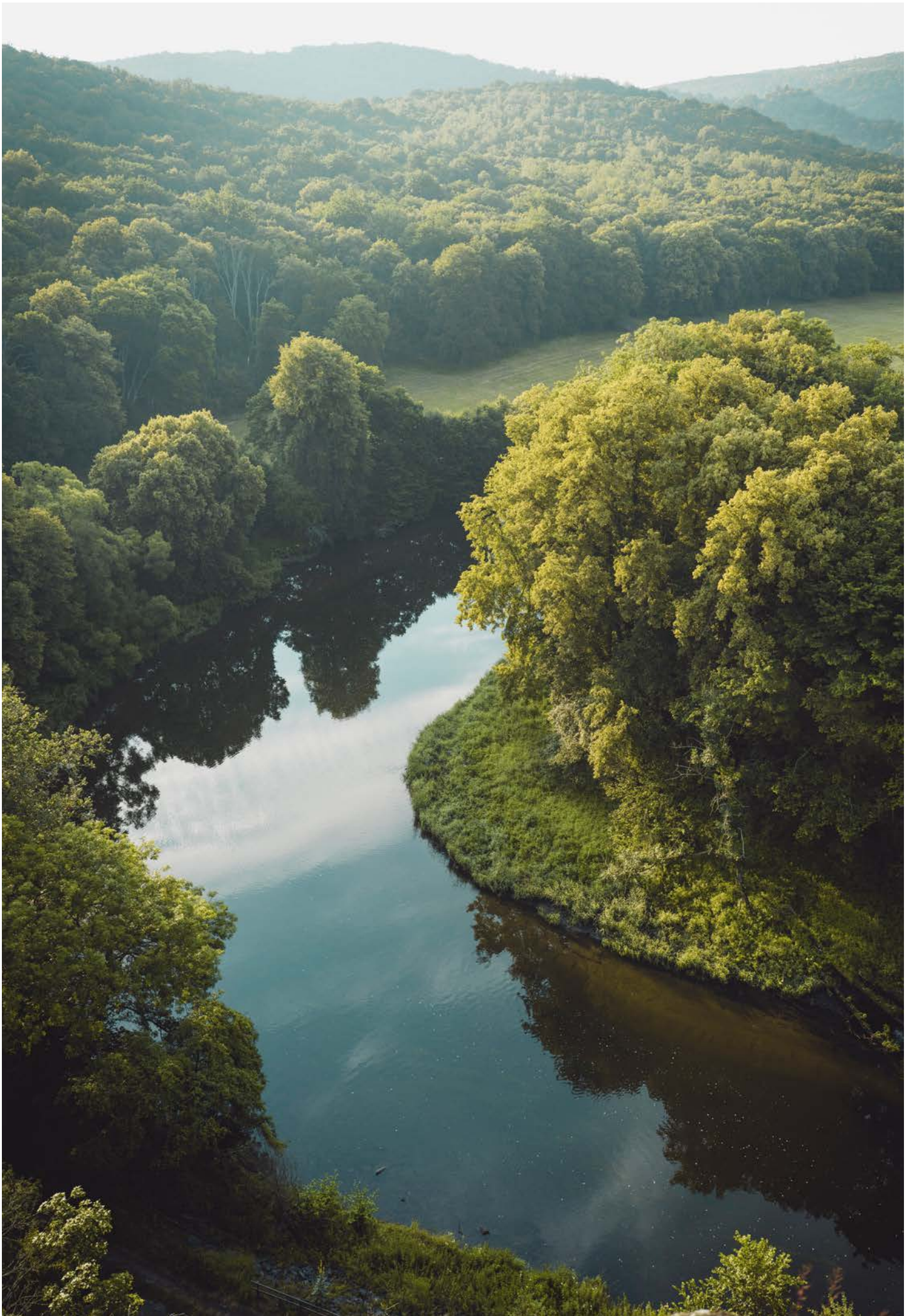
[Online registration form](#)

[Here you find further information about the symposium.](#)

**Nationalparks Austria**

**University of Vienna, Department for Botany and Biodiversity Research**





# Program Overview

Wednesday, 7<sup>th</sup> of September 2022

8:00–9:00 Foyer: Registration

9:00 Conference Start

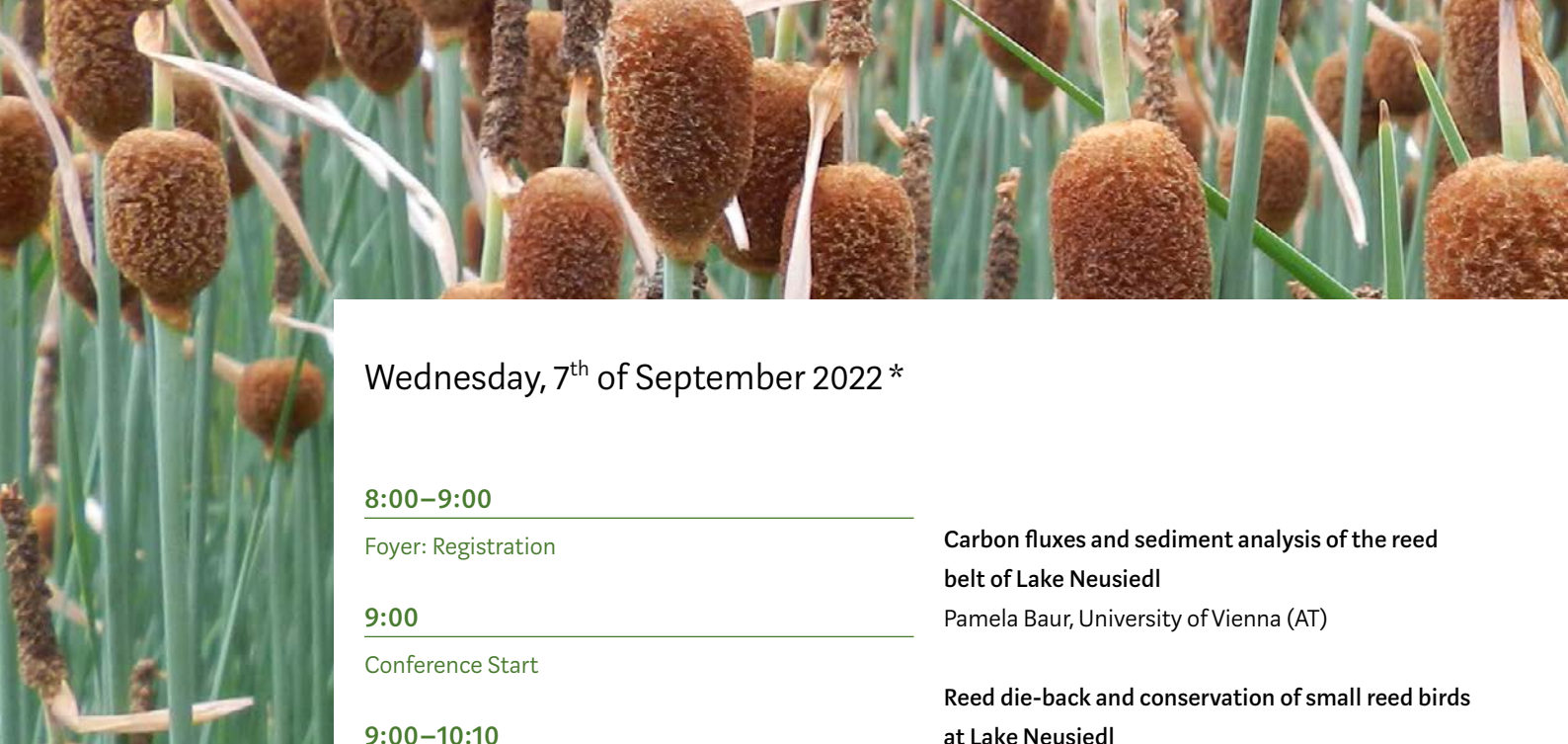
	Lecture Hall C1	Lecture Hall C2	Aula
9:00–10:10	<b>Welcome Addresses:</b> BM Leonore Gewessler, Federal Ministry Republic of Austria Thomas Wrška, University of Vienna & Christian Übl, Thayatal National Park <b>Key Note:</b> "Stemming the Biodiversity Crisis: a Vision for Protected Areas" by Franz Essl, University of Vienna		
10:10–10:30	20 min Coffee Break		
10:30–11:50	Session 2.1 <b>Reed Belt of Lake Neusiedl – Preservation and / or Management</b> Chair: Arno Cimadom	Session 2.2 <b>Recent Advances in River &amp; Floodplain Connectivity Research</b> Chair: Ronald Pöpl, Co-Chair: Thomas Hein & Elisabeth Bondar-Kunze	Session 2.3 <b>Protected Areas – Supportet by People?</b> Chair: Florian Danzinger
12:45–13:00	<b>Presentation of Scientific Staff Members in Austrian National Parks</b>		
11:50–13:00	70 min Lunch Break – Conference group photo. The gathering place will be announced on site.		
13:00–14:20	Session 3.1 <b>Research in Protected Forests</b> Chair: Christina Laßnig-Wlad	Session 3.2 <b>Recent Advances in River &amp; Floodplain Connectivity Research (cdt)</b> Chair: Ronald Pöpl, Co-Chair: Thomas Hein & Elisabeth Bondar-Kunze	Session 3.3 <b>Protected Areas "Going Digital" – Challenges &amp; Solutions</b> Chair: Karolina Taczanowska
14:20–14:40	20 min Coffee Break		
14:40–16:00	Session 4.1 <b>Planning Europe's first Wild River National Park – River Vjosa in Albania</b> Chair: Friedrich Schiemer & Paul Meulenbroek	Session 4.2 <b>Rivers – Sediments, Catchments and Beyond</b> Chair: Gerhard Klasz Co-Chair: Ronald Pöpl	Session 4.3 <b>Crowdedness – a Challenge in Balancing Nature and Human Need</b> Chair: Alexandra Jiricka-Pürner
16:00–16:20	20 min Coffee Break		
16:20–18:20	Session 5.1 <b>Salt Habitats: Unique, Extreme, Endangered</b> Chair: Harald Grabenhofer	Session 5.2 <b>Protection of the Night</b> Chair: Christina Pichler-Koban & Stefan Wallner	Session 5.3 <b>Mosses and Fungi – Pioneers of Life</b> Chair: Harald Zechmeister & Irmgard Krisai-Greilhuber
18:30	<b>Start Evening Program</b> Dinner Followed by Comedy – by Markus Koschuh and Humorous Intervention – by Martha Labil		



Thursday, 8<sup>th</sup> of September 2022

	Lecture Hall C1	Lecture Hall C2	Aula
8:20–9:40	Session 6.1 <b>Grassland Habitats – from Traditional Landuse to Effective Conservation Management</b> Chair: Arno Cimadom	Session 6.2 <b>DNA Based Research in Protected Areas</b> Chair: Nikolaus Szucsich	Session 6.3 <b>Biodiversity and Beyond – from Information Need to Robust &amp; Innovative Data Management</b> Chair: tba
9:40–10:00	20 min Coffee Break		
10:00–11:20	Session 7.1 <b>Grassland Habitats – from Traditional Landuse to Effective Conservation Management (cdt)</b> Chair: Arno Cimadom	Session 7.2 <b>Insights into Insect Biodiversity Research in Protected Areas</b> Chair: Bärbel Pachinger Co-Chair: Johann Neumayer	Session 7.3 <b>Assessing Biodiversity – the Long-Term Perspective</b> Chair: Robert Lindner
11:20–12:20	Poster Presentations		
12:20–13:30	70 min Lunch Break		
13:30–14:50	Session 8.1 <b>Life Above the Treeline</b> Chair: Ulrike Berninger & Martin Grube & Christian Körner	Session 8.2 <b>Long-term Monitoring in Natural Forest Reserves</b> Chair: Harald Vacik & Georg Frank	Session 8.3 <b>Assessing Biodiversity – New Perspectives &amp; Methodological Innovations</b> Chair: Christoph Plutzer
14:50–15:10	20 min Coffee Break		
15:10–16:30	Session 9.1 <b>15:10–15:50 Second Part of Session 8.1</b> <b>15:50 Start of Session 10.1</b>	Session 9.2 <b>Assessing Biodiversity and Ecological Processes with Remote Sensing</b> Chair: Christian Rossi	Session 9.3 <b>Essential Element of Life – Water in Alpine Protected Areas</b> Chair: Michael Jungmeier
16:30–16:50	20 min Coffee Break		
16:50–18:10	Session 10.1 <b>Impulses to Promote Biodiversity Research in Protected Areas</b> Chair: Elisabeth Haring	Session 10.2 <b>Dynamics of Montane Forests</b> Chair: Georg Gratzner	Session 10.3 <b>The Beneficial Role of Forests in Protected Areas – Genetic Resources, Carbon Stocks and Flood Prevention</b> Chair: Katharina Lapin
18:10–19:30	<b>Conference Closing</b> Conference Conclusion: Thomas Wrba & Christian Übl Farewell Address: Video message from Federal Minister Martin Polaschek  <i>ctd=continued</i> <i>tba=to be announced</i>		





Wednesday, 7<sup>th</sup> of September 2022 \*

**8:00–9:00**

Foyer: Registration

**9:00**

Conference Start

**9:00–10:10**

Lecture Hall C1

#### Welcome Adresses

BM Leonore Gewessler, Federal Ministry  
Republic of Austria  
Thomas Wrбка, University of Vienna &  
Christian Übl, Thayatal National Park

#### Key Note: "Stemming the Biodiversity Crisis: a Vision for Protected Areas"

Franz Essl, University of Vienna (AT)

**10:10 – 10:30**

Coffee Break

**10:30–11:50**

Lecture Hall C1

#### Session 2.1

##### Reed Belt of Lake Neusiedl – Preservation and/or Management

Chair: Arno Cimadom, Neusiedler See – Seewinkel  
National Park (AT)

##### Water level dynamics and exchange processes between the open lake and the reed belt in Lake Neusiedl

Georg Wolfram, DWS Hydro-Ecology GmbH (AT)

##### Unexpected pathways of mercury in Lake Neusiedl: a mesocosm approach

Jakob Windisch, University of Vienna (AT)

##### Carbon fluxes and sediment analysis of the reed belt of Lake Neusiedl

Pamela Baur, University of Vienna (AT)

##### Reed die-back and conservation of small reed birds at Lake Neusiedl

Erwin Nemeth, BirdLife Austria, (AT)

**10:30–11:50**

Lecture Hall C2

#### Session 2.2

##### Recent Advances in River & Floodplain Connectivity Research

Chair: Ronald Pöppel, University of Vienna (AT)  
Co-Chair: Thomas Hein, University of Natural  
Resources and Life Sciences, Vienna (AT) &  
Elisabeth Bondar-Kunze, University of Natural  
Resources and Life Sciences, Vienna (AT)

##### Effects of side-arm reconnection in a large river on hydro-morphological conditions and main trophic levels

Elisabeth Bondar-Kunze, University of Natural  
Resources and Life Sciences, Vienna (AT)

##### The effects of connectivity and morphology on the pelagic and benthic algal composition and function

Marie-Christine Moser, University of Natural Resources  
and Life Sciences, Vienna (AT)

##### Long-term hydrological changes in the Lobau (Donau-Auen National Park, Viennese part) – effects on the regional species composition of molluscs

Michael Duda, Museum of Natural History Vienna (AT)





**Analysing the importance of spatial connectivity and environmental conditions of amphibian metacommunities in river-floodplain systems of the Danube using eDNA metabarcoding**  
 Peter Bader, University of Natural Resources and Life Sciences, Vienna (AT)

**10:30–11:50**

Aula

### Session 2.3 Protected Areas – Supported by People?

Chair: Florian Danzinger, University of Vienna (AT)

**Connecting protected areas with Green Infrastructure: Assessing connectivity and functionality of ecological networks as a foundation for the development of stakeholder-driven and evidence-based strategies and action plans**

Florian Danzinger, University of Vienna (AT)

**The role of protected natural areas as a basic element of local/regional socio-economic development as well as for the conservation of biodiversity**

Ignacio J. Diaz-Maroto, University of Santiago de Compostela (ES)

**The acceptance and perception of the Stelvio National Park (Italy) by the local population and the tourists**

Roberta Bottarin, Eurac Research (IT)

**Participative Research as a means to promote involvement of residents in Swiss Parks**

Roger Bär, Swiss Academy of Sciences (CH)

**12:45–13:00**

Lecture Hall C1

### Presentation of Scientific Staff Members in Austrian National Parks

**11:50–13:00**

Lunch Break

Conference group photo. The gathering place will be announced on site.

**13:00–14:20**

Lecture Hall C1

### Session 3.1 Research in Protected Forests

Chair: Christina Laßnig-Wlad, Austrian Federal Forests (AT)

**Citizen science project "ArtenReich Streuobstwiese"**

Gernot Waiss, Austrian Federal Forests (AT)

**"Of dormice and men" – Building habitat conservation guidelines for land managers with help from citizen science**

Birgit Rotter, Austrian Federal Forests AG (AT)

**An approach to monitoring forest biodiversity in the Donau-Auen National Park based on the natural area inventory**

Zoran Trailovic, University of Natural Resources and Life Sciences, Vienna (AT)

**How remote sensing can support the monitoring of forest biodiversity parameters in Natura 2000 sites**

Tatjana Koukal, Austrian Research Centre for Forests (AT)

\*Provisional program – subject to alterations.



Wednesday, 7<sup>th</sup> of September 2022 \*

13:00–14:20

Lecture Hall C2

### Session 3.2

#### Recent Advances in River & Floodplain Connectivity Research

Chair: Ronald Pöppl, University of Vienna (AT)

Co-Chair: Thomas Hein, University of Natural Resources and Life Sciences, Vienna (AT)

& Elisabeth Bondar-Kunze, University of Natural Resources and Life Sciences, Vienna (AT)

#### Short-term restoration-induced changes in habitat connectivity for benthic macroinvertebrates in floodplains of the Donau-Auen National Park, Austria

Sonia Recinos Brizuela, University of Natural Resources and Life Sciences, Vienna (AT)

#### Flora and vegetation of the alluvial area in Vienna and Lower Austria before and after the Danube regulation

Luise Schratt-Ehrendorfer, University of Vienna (AT)

#### A tale of two rivers: phytosociological revision of the grasslands in the Danube and March-Thaya floodplain

Wolfgang Willner, University of Vienna (AT)

13:00–14:20

Aula

### Session 3.3

#### Protected Areas "Going Digital" – Challenges & Solutions

Chair: Karolina Taczanowska, University of Natural Resources and Life Sciences, Vienna (AT)

#### National parks in social media – content analysis of German-speaking twitter community

Karolina Taczanowska, University of Natural Resources and Life Sciences, Vienna (AT)

#### Improvement of tourist accessibility and enhancement of the local economies of protected natural areas using behavioral science and design for territories techniques

Pasquale La Malva, University "G. d'Annunzio" Chieti-Pescara (IT)

#### Following the digital tracks: Visitor monitoring using outdoor platform data

Max Mangold, Bavarian Forest National Park (DE)

14:20–14:40

Coffee Break

14:40–16:00

Lecture Hall C1

### Session 4.1

#### Planning Europe's first Wild River NP – River Vjosa in Albania

Chair: Friedrich Schiemer, University of Vienna (AT) & Paul Meulenbroek, University of Natural Resources and Life Sciences, Vienna (AT)

#### Assignment of the IUCN protected area category to the Vjosa river and its tributaries


Andrej Sovinc, NaravaNarave d.o.o. (SI)

#### A research concept for the Vjosa river system in Albania in view of the creation of a national park

Friedrich Schiemer, University of Vienna (AT)

#### The Vjosa – biodiversity of an outstanding European river

Paul Meulenbroek, University of Natural Resources and Life Sciences, Vienna (AT)



14:40–16:00

Lecture Hall C2

### Session 4.2

#### Rivers – Sediments, Catchments and Beyond

Chair: Gerhard Klasz, Engineering Office Klasz (AT)

Co-Chair: Ronald Pöpl, University of Vienna (AT)

**Bankfull and effective discharges and their change rates as indicators of disequilibrium or equilibrium in fluvial morphology. The Danube River east of Vienna**

Gerhard Klasz, Engineering Office Klasz (AT)

**Identifying hot spots and hot moments of fine sediment connectivity on agricultural hillslopes of the Fugnitz catchment (Thayatal National Park region) using sediment transport modeling and network analysis**

John Edward Perez, University of Vienna (AT)

**High-altitude micro-catchments as indicators of global changes: physical, chemical, and biological signals**

Georg Niedrist, River and Conservation Research, Department of Ecology, University of Innsbruck (AT)

**Gewässerperle PLUS – for the benefit of people and nature**

Antonia Eisenhut, WWF Switzerland (CH)

14:40–16:00

Aula

### Session 4.3

#### Crowdedness – a Challenge in Balancing Nature and Human Need

Chair: Alexandra Jiricka-Pürner, University of Natural Resources and Life Sciences, Vienna (AT)

**The relevance of urban and suburban protected areas during the pandemic – the Viennese people's perception**

Alexandra Jiricka-Pürner, University of Natural Resources and Life Sciences, Vienna (AT)

**SARS-Cov-2-Pandemic chance or burden for urban and suburban protected areas and their management?**

Christian Plecak, University of Vienna (AT)

**Protected areas – potentials and measures for green and blue infrastructure, agriculture and local recreation**

Renate Mayer, Agricultural Research and Education Centre Raumberg-Gumpenstein (AT)

**Perceived crowding, coping strategies and place attitude among visitors in the Bavarian Forest National Park**

Stefanie Döringer, Bavarian Forest National Park (DE)

16:00–16:20

Coffee Break

\*Provisional program – subject to alterations.





Wednesday, 7<sup>th</sup> of September 2022 \*

16:20–18:20

Lecture Hall C1

### Session 5.1

#### **Salt Habitats: Unique, Extreme, Endangered**

Chair: Harald Grabenhofer, Neusiedler See – Seewinkel National Park (AT)

##### **Saline Habitats: unique, harsh, endangered**

Rudolf Krachler, Neusiedler See – Seewinkel National Park (AT)

##### **New geological concept explaining the evolution of salt pans in the Seewinkel region (Northern Burgenland, Austria)**

Hermann Häusler, University of Vienna (AT)

##### **Is climate change the only problem for the Neusiedler See – Seewinkel National Park?**

Alfred Blaschke, TU Vienna (AT)

##### **Geophysical imaging of the salt content at the soda lakes from the Neusiedler See – Seewinkel National Park**

Adrian Flores-Orozco, TU Vienna (AT)

##### **The degradation of the soda pans in the Neusiedler See – Seewinkel National Park and its implications for breeding and migrating waterbirds**

Michael Dvorak, BirdLife Austria (AT)

##### **Definition and ecological assessment methods of alkaline soda lakes/pans in the Pannonian Biogeographic Region**

Zoltán Ecsedi, Hortobágy Environmental Association (HU)

16:20–18:20

Lecture Hall C2

### Session 5.2

#### **Protection of the Night**

Chair: Christina Pichler-Koban, University of Klagenfurt (AT) & Stefan Wallner, University of Vienna (AT)

##### **The development of light pollution and the establishment of dark sky protection areas in Austria**

Stefan Wallner, University of Vienna (AT)

##### **Dark sky areas in the Czech republic**

Michal Bares, Czech Astronomical Society (CZ)

##### **Is light protection feasible for the Gesäuse region and surrounding areas?**

Gabriel Kirchmair, Styrian Eisenwurzen – Nature Park and UNESCO Global Geopark (AT)

##### **The dark side of artificial illumination in nocturnal ecosystems**

Stefanie Suchy, Tyrolean Environmental Ombudsman (AT)

##### **Measuring and protecting the night biodiversity**

Günther Wuchterl, Kuffner Observatory (AT)

##### **Bringing the „Lebensraum Naturnacht“ to the Natural History Museum Vienna - Communicating the intact night habitats of Austrian world heritage sites to the general public with minimal conservation and protection conflicts**

Christoph Goldmann, Natural History Museum Vienna (AT)

##### **The dark side of light**

Christian Raffetseder, Austrian Environmental Umbrella Association (AT)



**16:20–18:20**

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Aula

### **Session 5.3**

#### **Mosses and Fungi – Pioneers of Life**

Chair: Harald Zechmeister, University of Vienna (AT) &  
Irmgard Krisai-Greilhuber, University of Vienna (AT)

#### **Bryophytes in the national parks in the east of Austria**

Harald Zechmeister, University of Vienna (AT)

#### **Fungi – the dark matter of biodiversity research?**

Alexander Urban, University of Vienna (AT)

#### **Macromycete diversity of mapping areas in the Donau-Auen National Park in 2017 – changes compared to 1981-1990**

Irmgard Krisai-Greilhuber, University of Vienna (AT)

**18:30**

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Start Evening Program

### **Dinner**

**Followed by Comedy – by Markus Koschuh  
and Humoristic Intervention – by Martha  
Labil**



Thursday, 8<sup>th</sup> of September 2022 \*

8:20–9:40

Lecture Hall C1

### Session 6.1

#### Grassland Habitats – from Traditional Landuse to Effective Conservation Management

Chair: Arno Cimadom, Neusiedler See – Seewinkel National Park (AT)

**Floodplain reserve Marchegg – first monitoring results after eight years of grazing with semi – wild horses**

Gerhard Egger, WWF Austria (AT)

**The Benefits of extensive grazing for preserving steppe vegetation – results from 25 years of monitoring permanent plots**

Victoria Werner, University of Vienna (AT)

**Using meadow bird monitoring data to evaluate grassland management in the Neusiedler See – Seewinkel National Park: possibilities and limitations**

Georg Bieringer, Engineering Office for Biology (AT)

**The Zitzmannsdorf's Meadows – a study on syntaxonomy and management**

Sebastian Dunkl, University of Vienna (AT)

8:20–9:40

Lecture Hall C2

### Session 6.2

#### DNA Based Research in Protected Areas

Chair: Nikolaus Szucsich, Museum of Natural History Vienna/ABOL (AT)

**DNA based methods in the field of tension between local and global challenges**

Nikolaus Szucsich, Museum of Natural History Vienna/ABOL (AT)

**Routine assessment of biodiversity via eDNA: what already works and where we face challenges**  
Corinna Wallinger, University of Innsbruck (AT)

**Development and implementation of eDNA monitoring methods for fish in the alpine region and comparison to traditional ecological status assessment methods**

Hans Rund, University of Innsbruck (AT)

**Applicability of eDNA metabarcoding for biodiversity assessment in the sensitive ecosystems of nature protection areas**

Vid Švara, Carinthia University of Applied Sciences (AT)

8:20–9:40

Aula

### Session 6.3

#### Biodiversity and Beyond – from Information Need to Robust & Innovative Data Management

Chair: tba

**Vegetation mapping on selected areas of the Hohe Tauern National Park**


Oliver Stöhr, REVITAL Integrative Naturraumplanung GmbH (AT)

**GLORIA Extended – A new zoological approach for the summit- and climate monitoring! Results from a pilot project in the Gesäuse National Park.**

Christian Komposch, Ökoteam (AT)

**Bedload monitoring in the Gesäuse National Park**

Dorian Shire-Peterlechner, University of Natural Resources and Life Sciences, Vienna (AT)



**The monitoring global guideline framework for biodiversity monitoring**  
Daniel Dalton, Carinthia University of Applied Sciences (AT)

**9:40–10:00**

Coffee Break

**10:00–11:20**

Lecture Hall C1

**Session 7.1**  
**Grassland Habitats – from Traditional Landuse to Effective Conservation Management (cdt)**

Chair: Arno Cimadom, Neusiedler See – Seewinkel National Park (AT)

**Bullshit – Dung beetle and their Impact**

Tobias Schernhammer, Engineering Office for Landscape Planning (AT)

**Managing European ground squirrel, European hamster and some other selected small mammals in the national park area**

Barbara Herzig, Naturschutzbund Austria (AT)

**Restoration of semi-natural grassland: how does it work in practice?**

Julia Kelemen-Finan, Engineering Office Kelemen-Finan (AT)

**Fostering the cultural and natural assets of alpine pastures and mountain meadows**

Stefan Kirchweger, STUDIA (AT)

**10:00–11:20**

Lecture Hall C2

**Session 7.2**  
**Insights into Insect Biodiversity Research in Protected Areas**

Chair: Bärbel Pachinger, University of Natural Resources and Life Sciences, Vienna (AT)

Co-Chair: Johann Neumayer, Haus der Natur – Museum for Nature and Technology (AT)

**Effects of climate warming on Austrian wild bee communities and functional traits**

Victor Scharnhorst, University of Natural Resources and Life Sciences, Vienna (AT)

**The hymenopteran fauna of soda pans in the Neusiedler See – Seewinkel National Park**

Alice Laciny, Austrian Entomological Society (AT)

**National parks and pollination: Synergies and trade-offs with other forest ecosystem services and adjacent agricultural activity**

Andreas Mayer, University of Natural Resources and Life Sciences, Vienna (AT)

**Improving biodiversity literacy and biodiversity data together: the "Insect-Camps" of the Austrian Entomological Society**

Elisabeth Huber, Ökoteam (AT)

\*Provisional program – subject to alterations.





Thursday, 8<sup>th</sup> of September 2022 \*

10:00–11:20

Aula

**Session 7.3**  
**Assessing Biodiversity – the Long-Term Perspective**

Chair: Robert Lindner, Haus der Natur – Museum for Nature and Technology (AT)

**Collecting biodiversity data for 20 years: Is the knowledge we have the knowledge we need?**  
Robert Lindner, Haus der Natur – Museum for Nature and Technology (AT)

**The Times They Are A-Changin' – and just climbing higher? Unexpected results from a 22-years zoological monitoring in the Hohe Tauern National Park**  
Christian Komposch, Ökoteam Institute For Animal Ecology And Landscape Planning (AT)

**Pollarding: a management tool in the conservation of veteran trees and their associated biodiversity**  
Pavel Sebek, Biology Centre CAS (CZ)

11:20–12:20

Lecture Hall C1

**Poster Presentations**

12:20–13:30

Lunch Break

13:30–14:50

Lecture Hall C1

**Session 8.1**  
**Life Above the Treeline**

Chair: Ulrike Berninger, University of Salzburg (AT) & Martin Grube, University of Graz (AT) & Christian Körner, University of Basel (CH)

**Treeline elevation record in the Hohe Tauern National Park and its rapid move**  
Christian Körner, University of Basel (CH)

**Counting the countless: Machine learning for long-term monitoring of alpine plant diversity in the Hohe Tauern National Park**  
Roland Kaiser, Ennacon KG (AT)

**Monitoring alpine rivers – an effective instrument for biodiversity and environmental-change research and management**  
Leopold Füreder, River and Conservation Research, University of Innsbruck (AT)

**Diversity patterns in the plankton communities of high alpine lakes: the expected and unexpected**  
Stephen Wickham, University of Salzburg (AT)

**Alpine plant diversity monitoring in protected areas: The GLORIA observation network after 20 years of operation**  
Harald Pauli, University of Natural Resources and Life Sciences, Vienna (AT)

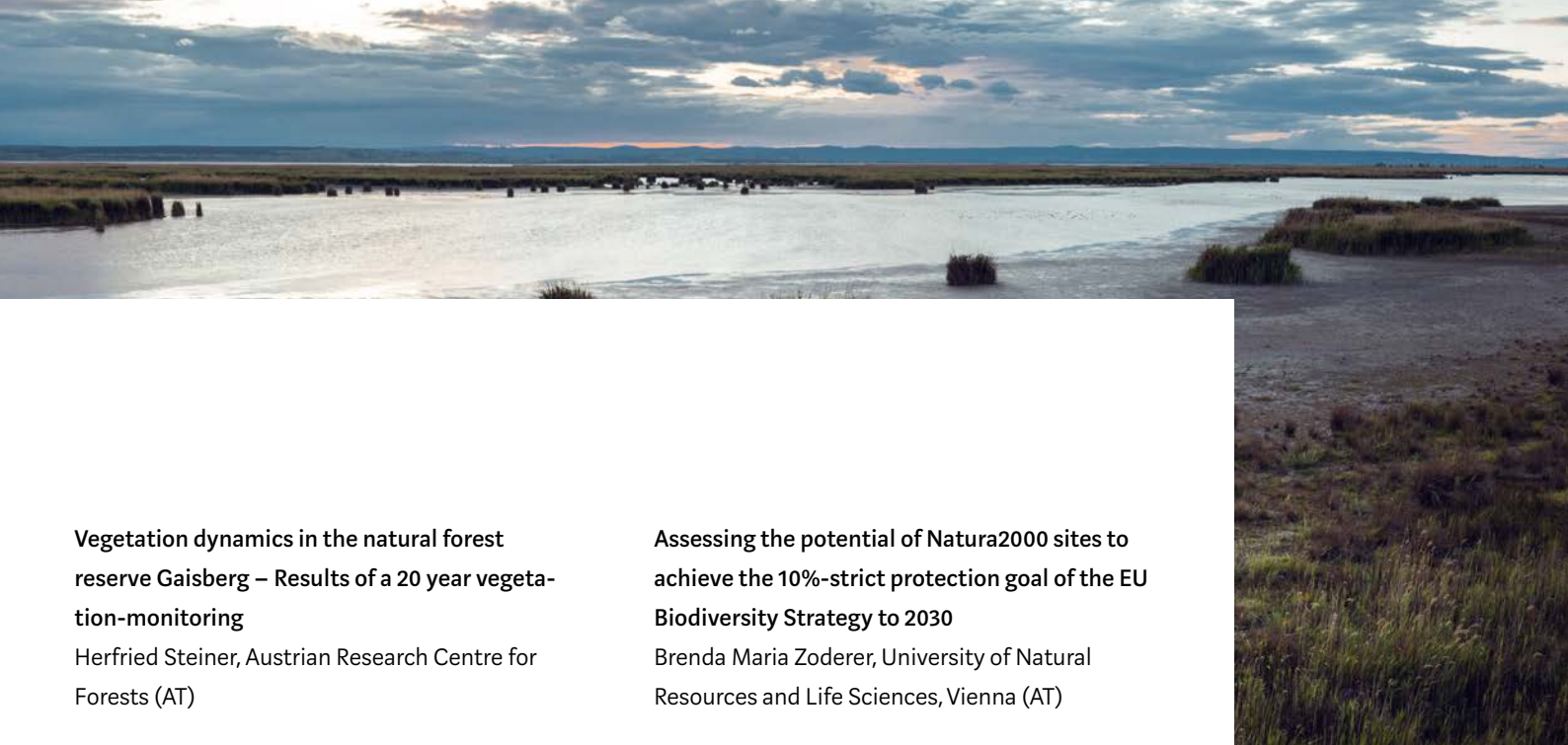
**Interacting effects of climate change and grazing exclusion on subalpine–alpine–subnival plant communities: Results of a long term survey in the Nature Park Ötztal/Tyrolean Alps**  
Nikolaus Schallhart, University of Innsbruck (AT)

13:30–14:50

Lecture Hall C2

**Session 8.2**  
**Long-term Monitoring in Natural Forest Reserves**

Chair: Harald Vacik, University of Natural Resources and Life Sciences, Vienna (AT) & Georg Frank, Austrian Research Centre for Forests (AT)



**Vegetation dynamics in the natural forest reserve Gaisberg – Results of a 20 year vegetation-monitoring**

Herfried Steiner, Austrian Research Centre for Forests (AT)

**Long live the forest and all it's dead: Succession phases and mortality indices in Austria's natural forest reserves**

Nastasja Harnack, Austrian Research Centre for Forests (AT)

**Parasitism against invasions: native parasitic plants as a tool in nature conservation**

Kateřina Knotková, University of Masaryk (CZ)

**Dynamics of regeneration in accordance to dead wood status in Goldeck Natural Forest Reserve in Carinthia, Austria**

Dimitrios Manousidis, University of Natural Resources and Life Sciences, Vienna (AT)

**13:30–14:50**

Aula

**Session 8.3  
Assessing Biodiversity – New Perspectives & Methodological Innovations**

Chair: Christoph Plutzer, Kommunalcredit Public Consulting (AT)

**Wilderness character mapping – a suitable tool for national park stewardship?**

Christoph Plutzer, Kommunalcredit Public Consulting (AT)

**Assessing the potential of Natura2000 sites to achieve the 10%-strict protection goal of the EU Biodiversity Strategy to 2030**

Brenda Maria Zoderer, University of Natural Resources and Life Sciences, Vienna (AT)

**Biodiversity surveys in protected areas within the long-term project Biodiversity Monitoring South Tyrol**

Andreas Hilpold, Eurac Research (IT)

**Opportunity for Austrian Biodiversity: the new Biodiversity Fund**

Christoph Plutzer, Kommunalcredit Public Consulting (AT)

**14:50–15:10**

Coffee Break

**15:10–16:30**

Lecture Hall C1

**Session 9.1**

**15:10–15:50  
15:50**

**Second Part of Session 8.1  
Start of Session 10.1**

**15:10–16:30**

Lecture Hall C2

**Session 9.2**

**Assessing Biodiversity and Ecological Processes with Remote Sensing**

Chair: Christian Rossi, Swiss National Park (AT)

\*Provisional program – subject to alterations.





Thursday, 8<sup>th</sup> of September 2022 \*

**Documentation of natural processes in the  
Gesäuse National Park**

Tobias Köstl, E.C.O. Institute of Ecology (AT)

**Habitat classification and Connectivity-Function-  
ality analysis along the European Green Belt using  
high-resolution satellite imagery**

Fuchs Stefan, University of Vienna (AT)

**From spectral to grassland biodiversity**

Christian Rossi, Swiss National Park (CH)

**The data pool initiative for the bohemian forest  
ecosystem – concept, activities, and impact of an  
international forest remote sensing cooperation**

Simon König, Bavarian Forest National Park (DE)

**15:10–16:30**

Aula

**Session 9.3  
Essential Element of Life – Water in Alpine  
Protected Areas**

Chair: Michael Jungmeier, FH Kärnten University of  
Applied Sciences (AT)

**Water as important geoh heritage in UNESCO global  
geoparks**

Lilia Schmalzl, Carinthia University of Applied  
Sciences (AT)

**Pulling the plug – restoration of lake Sulzkarsee  
(Styria, Austria), an alpine lake degraded by fish  
introduction**

Robert Schabetsberger, University of Salzburg (AT)

**Channel evolution process in a diamictic glacier fore-  
land: Case study Pasterze/Hohe Tauern National Park**

Michael Paster, University of Natural Resources and  
Life Sciences, Vienna (AT)

**16:30–16:50**

Coffee Break

**16:50–18:10**

Lecture Hall C1

**Session 10.1  
Impulses to Promote Biodiversity Research  
in Protected Areas**

Chair: Elisabeth Haring, Museum of Natural History  
Vienna (AT) & Klaus Peter Zulka, University of  
Vienna (AT)

**Urgent requirements for the conservation  
and support of Austrian biodiversity: A position  
statement.**

Fritz Schiemer, Austrian Zoological – Botanical  
Society (AT)

**„BioTaxSyst“ – summer schools of the Austrian  
Zoological-Botanical Society teaching taxonomy and  
systematics of selected animal and plant taxa**  
Gerhard Aubrecht, Austrian Zoological – Botanical  
Society (AT)

**Austrian national parks: biodiversity coverage  
and major gaps**

Klaus Peter Zulka, University of Vienna (AT)

**National parks and wild ungulates – biodiversity  
and management issues**

Friedrich Reimoser, University of Veterinary Medicine  
Vienna (AT)

**Long term conservation strategies for the endan-  
gered plant *Artemisia laciniata***

Andrea Kodym, University of Vienna (AT)



**16:50–18:10**

Lecture Hall C2

## Session 10.2

### Dynamics of Montane Forests

Chair: Georg Gratzer, University of Natural Resources and Life Sciences, Vienna (AT)

#### Why protected areas are essential to advance our understanding of mast-seeding

Mario Pesendorfer, University of Natural Resources and Life Sciences, Vienna (AT)

#### Differential spatial responses of rodents to masting on forest sites with differing disturbance history

Frederik Sachser, University of Natural Resources and Life Sciences, Vienna (AT)

#### Does fine scale spatiotemporal variation in seed rain translate into plant population structure?

Georg Gratzer, University of Natural Resources and Life Sciences, Vienna (AT)

#### What you see is what you get: How historic concepts of primeval forests in Central Europe shaped present conservation landscapes.

Iris Oberklammer, University of Natural Resources and Life Sciences, Vienna (AT)

**16:50–18:10**

Aula

## Session 10.3

### The Beneficial Role of Forests in Protected Areas – Genetic Resources, Carbon Stocks and Flood Prevention

Chair: Katharina Lapin, Austrian Research Centre for Forests (AT)

#### Risk management for biodiversity conservation in riparian forests of the UNESCO Mura-Drava-Danube Biosphere Reserve

Katharina Lapin, Austrian Research Centre for Forests (AT)

#### Forest dynamics of the Schiffwald Natural Forest Reserve

Ajdin Starcevic, University of Natural Resources and Life Sciences (AT)

#### Decay of deadwood – current knowledge on carbon stocks in Austrian forests

Mathias Neumann, University of Natural Resources and Life Sciences, Vienna (AT)

#### Ways to secure and use forest genetic resources in protected areas

Jana-Sophie Ette, Austrian Research Centre for Forests (AT)

**18:10–19:30**

Conference Closing

#### Conference Conclusion:

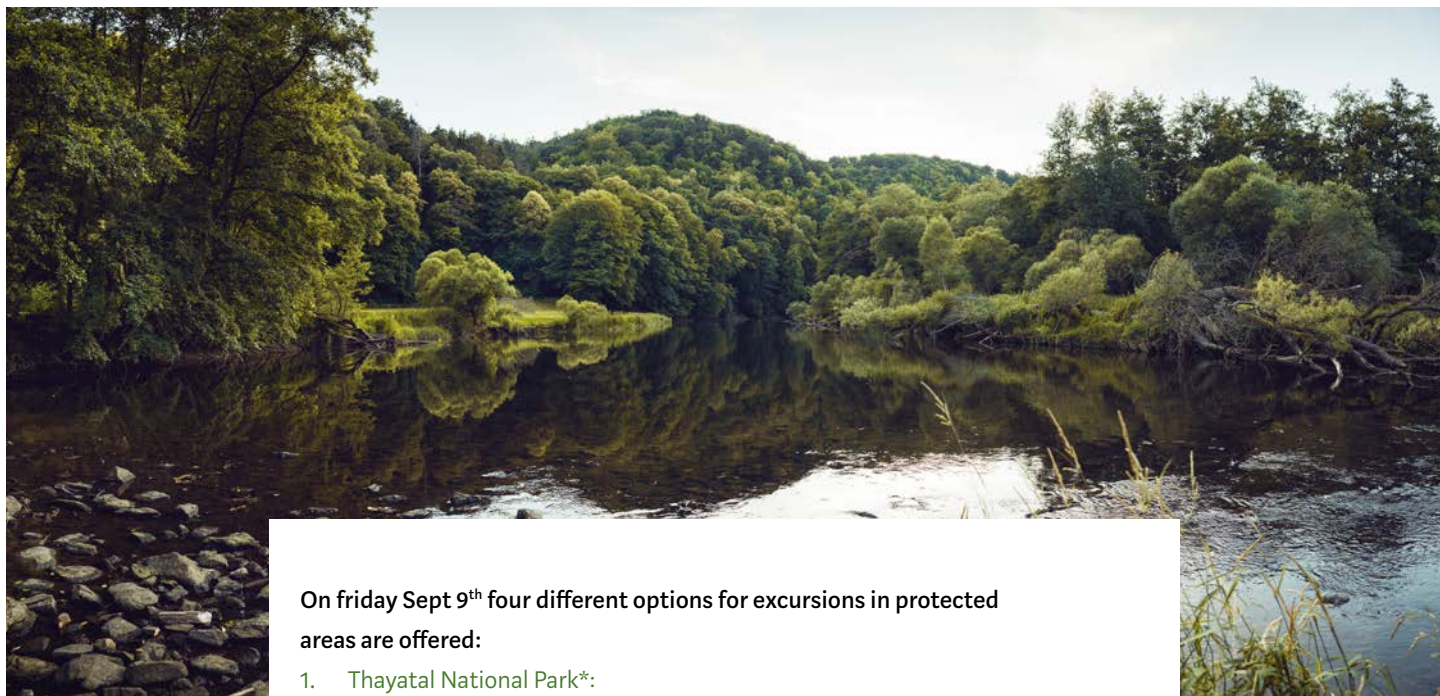
**Thomas Wrбка & Christian Übl**

**Farewell Address: Video message from Federal Minister Martin Polaschek**



# Excursions

Friday, 9<sup>th</sup> of September 2022



On Friday Sept 9<sup>th</sup> four different options for excursions in protected areas are offered:

1. **Thayatal National Park\*:**  
busride to Hardegg; guided walk along the river Thaya, to lookout "Umlaufberg" and to castle ruin "Kaja" (duration: 6h);  
topics: Hardegg – smallest Austrian town; wilderness like river canyon and natural forests; dry grassland & meadows as biodiversity hot spots; scenic rock formations & castle ruin
2. **Donau-Auen National Park\*:**  
busride to Orth/Donau; two guided walks to "Schönau" and "Orther Inseln" (duration: 6h)  
topics: reconnection & restoration of river channels; natural dynamics in soft-wood floodplain forests; challenges of flood protection & visitor management
3. **Neusiedler See – Seewinkel National Park\*:**  
busride to Illmitz; guided bicycle tour to Illmitzer Zicksee and Sandeck (duration: 6h)  
topics: salt lakes and their habitats; "Puszta" sand & salt steppes: restoration by extensive grazing; Lake Neusiedl & reed belt; challenges of water management  
*\*All buses will leave at 8:30 a.m. from Vienna and return at 6 p.m.*
4. **Biosphere Reserve Wiener Wald:**  
guided walk tour from Nussdorf to Kahlenberg (duration: 4h)  
topics: biosphere reserve in a metropolitan area; biodiversity "hot spots" in nature friendly vineyards; sustainably managed and strictly protected forests  
participants meet at 9:00 a.m. in Nussdorf (final station tramline D); return at 1:00 p.m. from Kahlenberg (busline 38A)

# Organizer

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Biodiversity Research  
Rennweg 14  
1030 Vienna  
[www.univie.ac.at](http://www.univie.ac.at)

## On behalf of the Association

### Nationalparks Austria

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Christian Übl

Director Thayatal National Park,  
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# Funding

The 7<sup>th</sup> Nationalparks Austria Research Symposium is supported by the Federal Government of Austria and the European Union.





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# *Imprint*

**Published and Organized by:**

Nationalparks Austria,  
Schloss Orth, 2304 Orth an der Donau  
[www.nationalparksaustria.at](http://www.nationalparksaustria.at)  
(ZVR-Zahl: 798627861)

Editing: University of Vienna,  
Department for Botany and Biodiversity Research  
Rennweg 14, 1030 Vienna

On the basis of the submissions and information of the participants

Design: Anna Habaschy – Art Direction & Illustration, [www.minaechx.at](http://www.minaechx.at)  
Photographs: Stefan Leitner, Tobias Kaser, Hannah Assil, Dworczyk, Sebastian Freiler



The aim is to organize the event according to the criteria of the Austrian Eco-label for Green Meetings/Events.



