

PROGRAM

to the 7th International Symposium for Research

Protected Areas facing the Biodiversity Crisis

7th – 9th 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

Venue

Campus Altes AKH Vienna

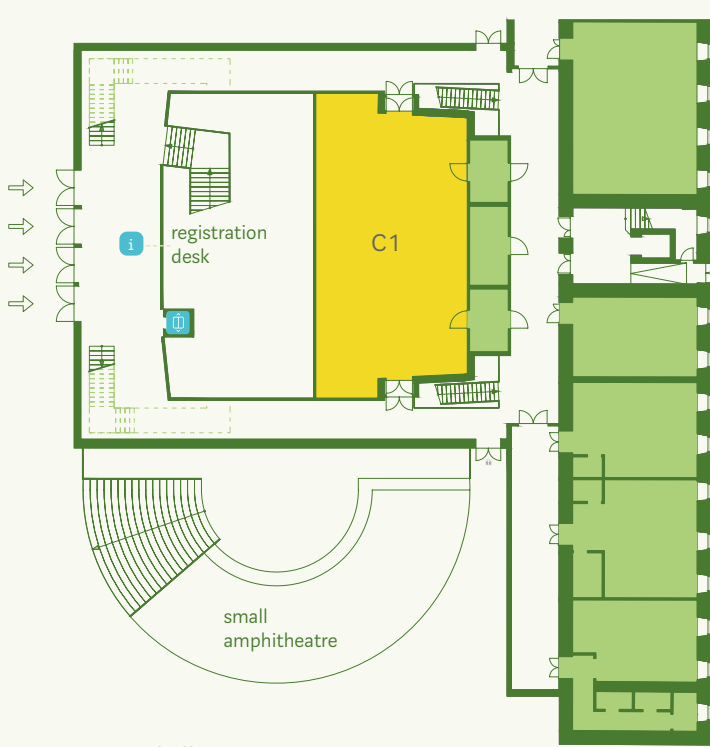
Spitalgasse 2, Courtyard 2

1090 Vienna

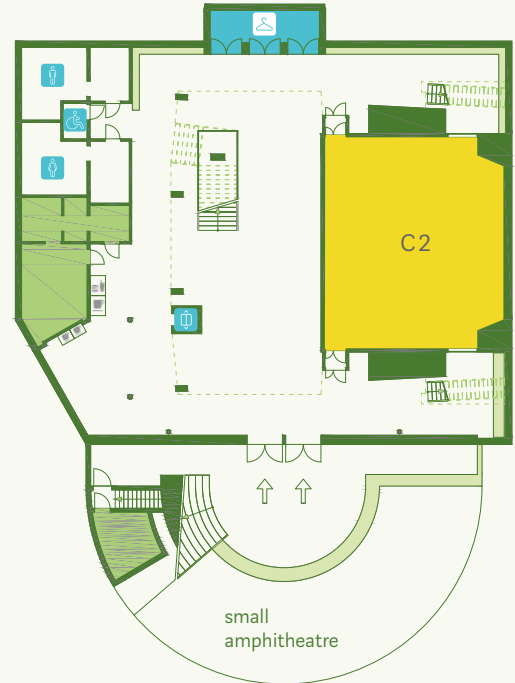
Austria

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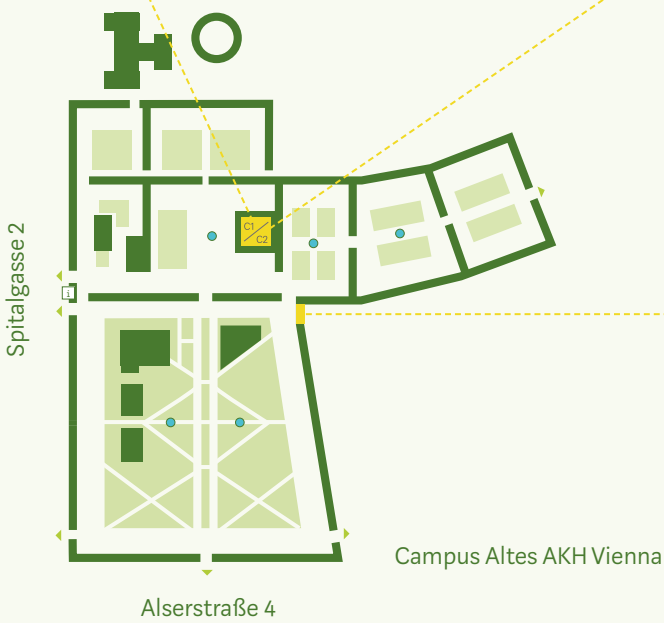
Area Map



Lecture hall C1
Courtyard 2, ground floor

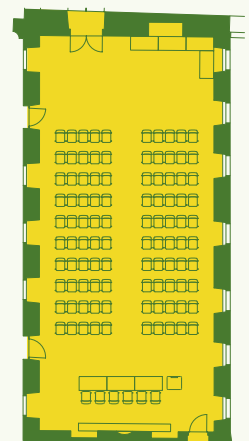


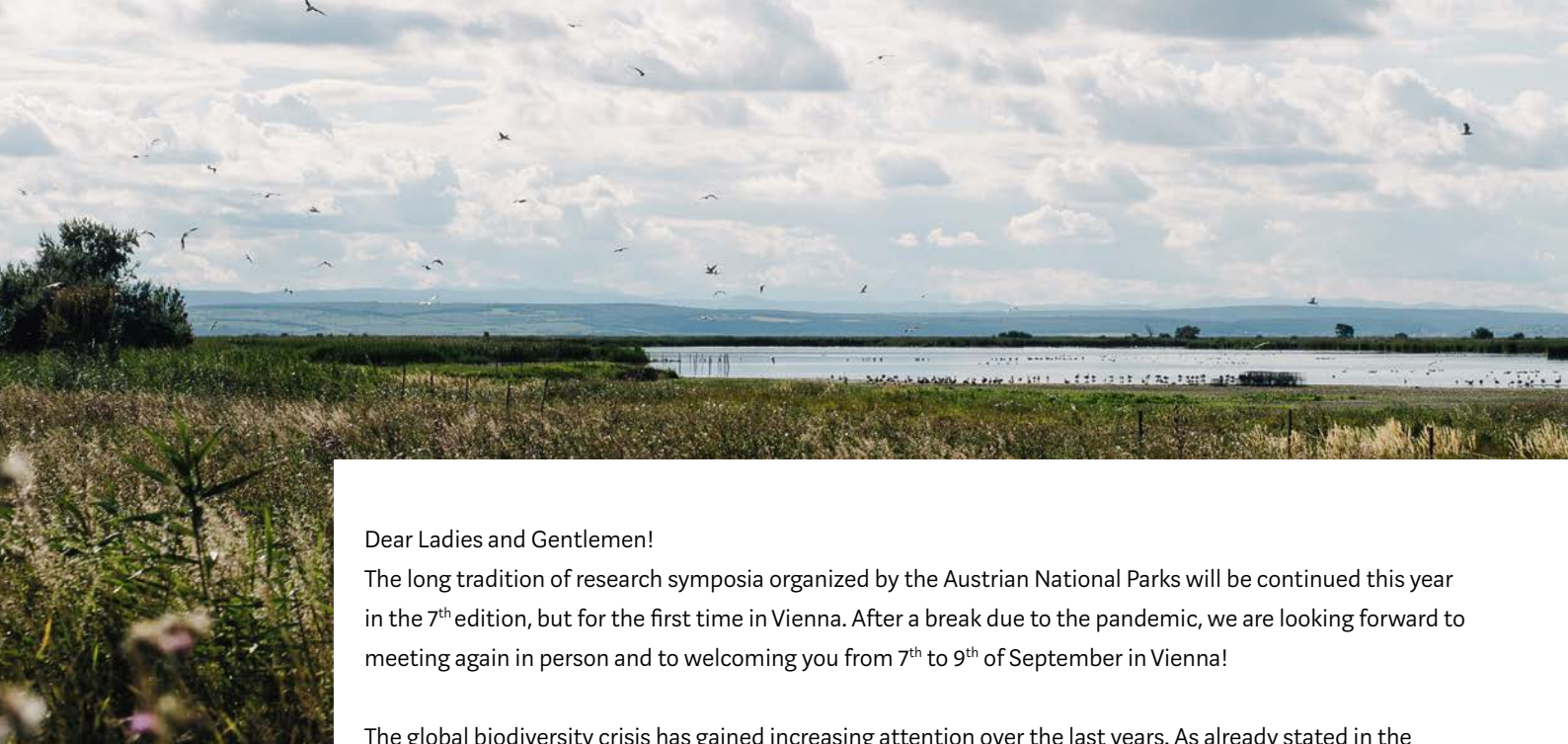
Lecture hall C2
Courtyard 2, downstairs



Campus Altes AKH Vienna

Aula
Courtyard 1





Dear Ladies and Gentlemen!

The long tradition of research symposia organized by the Austrian National Parks will be continued this year in the 7th 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 7th to 9th 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:

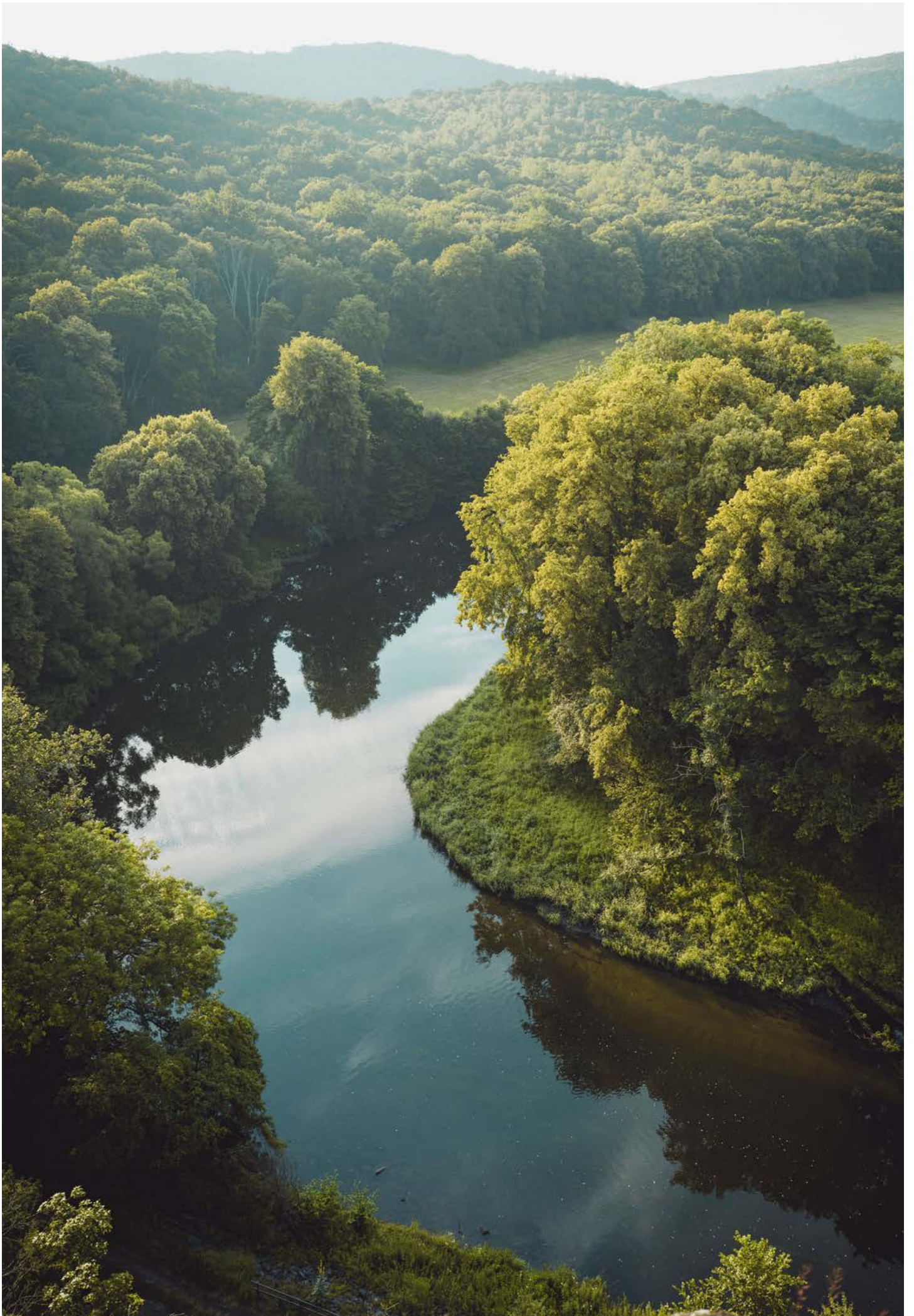
The participation is free of charge. For organizational reasons, online registration is mandatory for all participants. With regard to the limited number of participants, the "first come, first serve" principle applies and registration must be made by August 28, 2022 at the latest.

[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, 7th of September 2022

8:00–9:00 Foyer: Registration

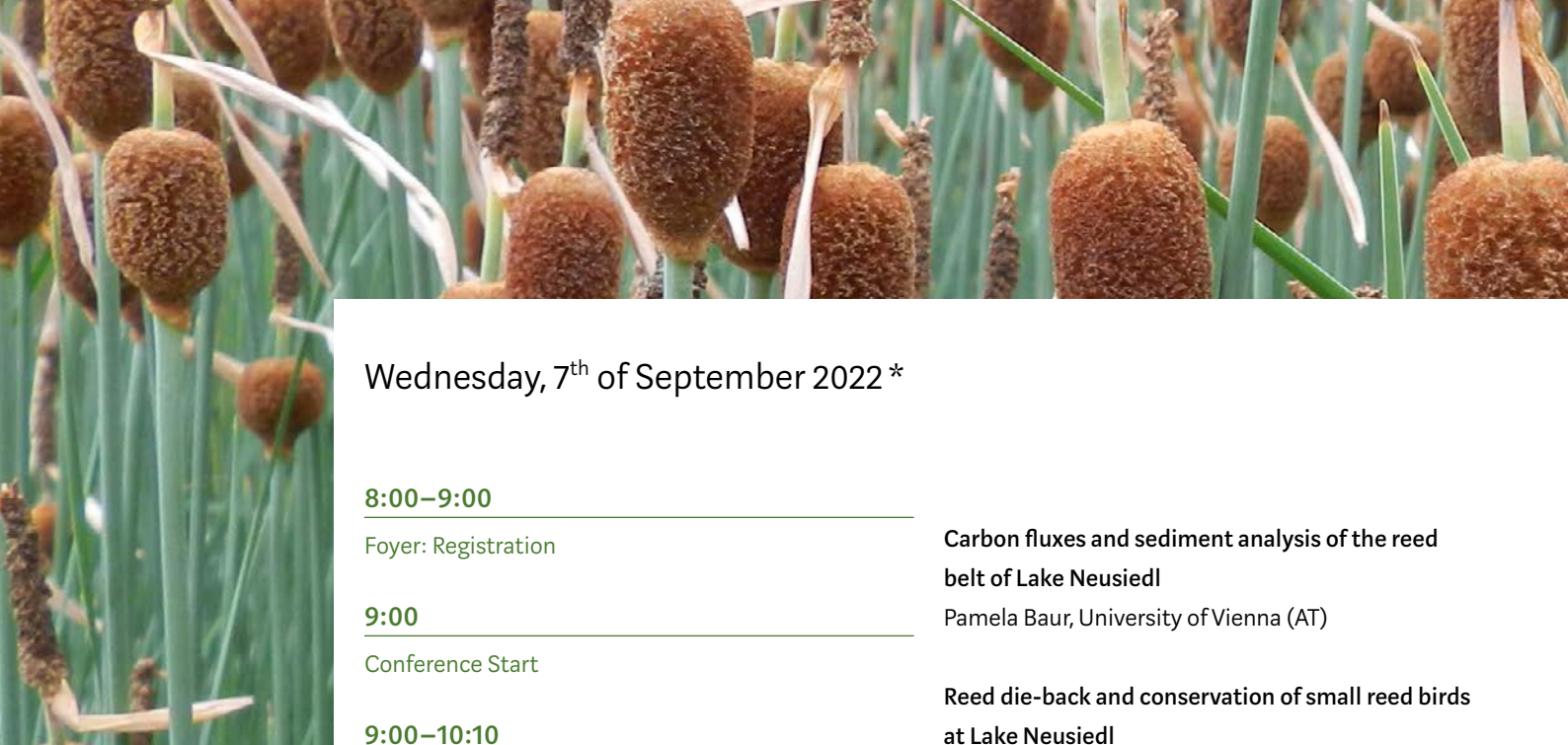
9:00 Conference Start

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

Thursday, 8th of September 2022

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

*ctd=continued**tba=to be announced*



Wednesday, 7th 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**

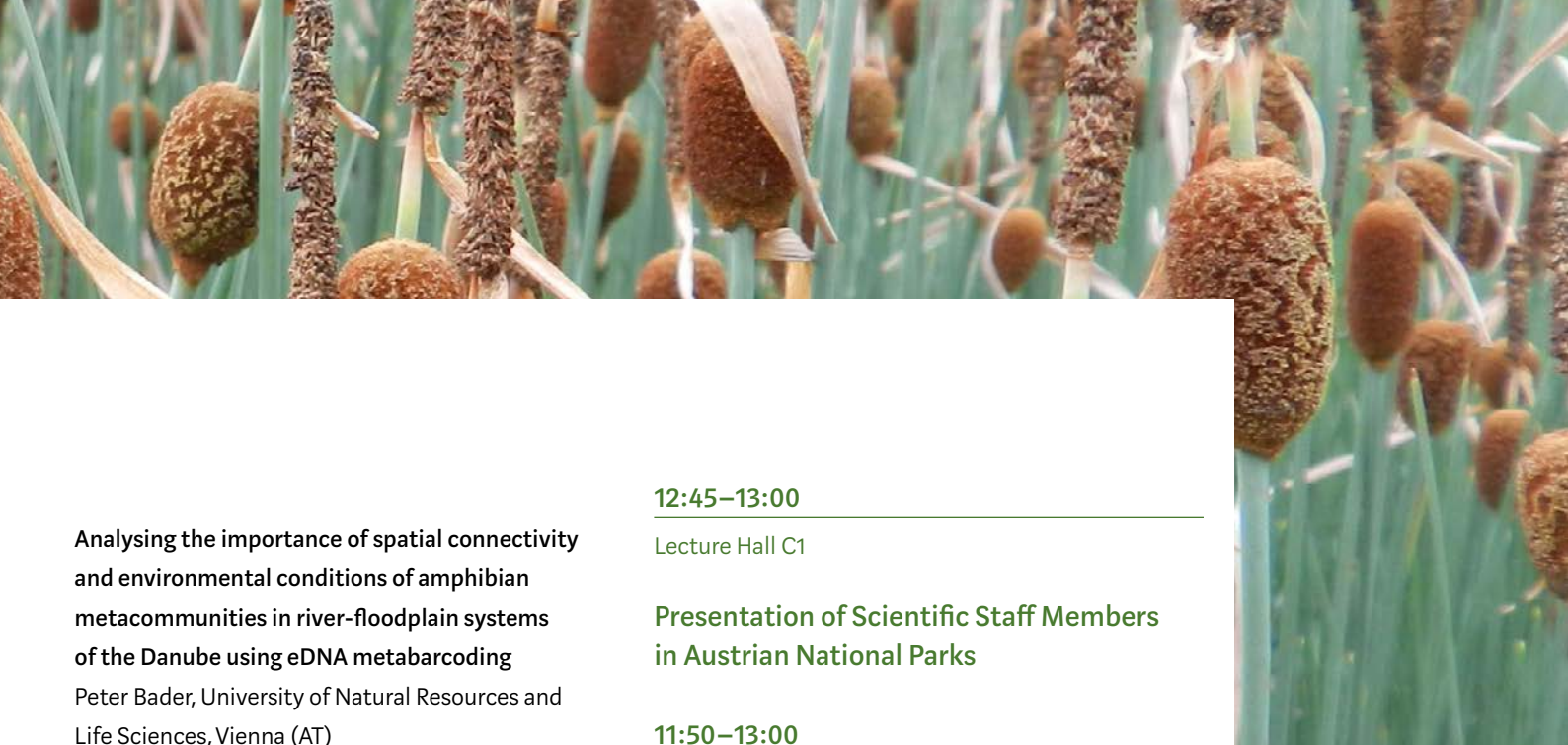
Chair: Ronald Pöppel, University of Vienna (AT)
Co-Chair: Thomas Hein, University of Natural
Resources and Life Sciences, Vienna (AT) &
Elisabeth Bondar-Kunze, University of Natural
Resources and Life Sciences, Vienna (AT)

**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, 7th 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 disequi-librium 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-Pürerer, 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-Pürerer, 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, 7th 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

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

Start Evening Program

Dinner

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

Thursday, 8th 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)

Effetcs 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, 8th 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)



Thursday, 8th 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-Functionality 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 foreland: 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 endangered 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 Wrbka & Christian Übl

Farewell Adress: Video message from Federal Minister Martin Polaschek

*Provisional program – subject to alterations.

Excursions

Friday, 9th of September 2022



On Friday Sept 9th 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)

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Biodiversity Research
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On behalf of the Association

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

