

Programme

6th Symposium for Research in Protected Areas

2 – 3 NOVEMBER 2017 – FACULTY OF NATURAL SCIENCES, UNIVERSITY OF SALZBURG



SUPPORTED BY THE FEDERAL GOVERNMENT AND THE EUROPEAN UNION



Our natural heritage.

Dear Participants,



protected areas are important investments in the future. To preserve the diversity of nature in the long term, we must assume responsibility and sustainably protect natural ecosystems. We need efficient strategies to further develop protected areas and make them fit for the future. Applied research plays an essential role in this task. Long term monitoring is used to review status and trends of selected species or habitats as indicators for biodiversity.

Intensive cooperation among experts in Austria, across Europe and beyond is essential for success. Economic synergies are also used. Researchers from all Austrian National Parks elaborated guidelines with the aim of finding a common understanding and strategic alignment. One important component is the holistic view. It considers not only nature sciences but also socioeconomics, psychology, knowledge transfer, citizen science or historical aspects.

Protected areas are subject to constant change and new challenges such as climate change or invasive species. This years' event is an important milestone in research networking, an ideal opportunity for exchange of experience and knowledge across different disciplines.

I wish all participants of the 6th Symposium on Research in Protected Areas informative, inspiring and productive debates!

A handwritten signature in green ink, appearing to read 'Andrä Rupprechter'. The signature is fluid and cursive.

Dipl.-Ing. Andrä Rupprechter
Federal Minister of Agriculture, Forestry, Environment and Water Management

Contact & Maps

Contact for the conference

Wolfgang Urban, executive managing director
Kristina Bauch, project manager
on behalf of the Association National Parks Austria
(Verein Nationalparks Austria)
Hohe Tauern National Park
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Conference office

at the Foyer in the Faculty of Natural Sciences,
University of Salzburg

Support team:

Anna Nindl, trainee, organisational team of the Hohe Tauern
National Park administration office, Mittersill
Stefanie Kothgaßner, management assistant of the Association
National Parks Austria, Molln

Opening hours:

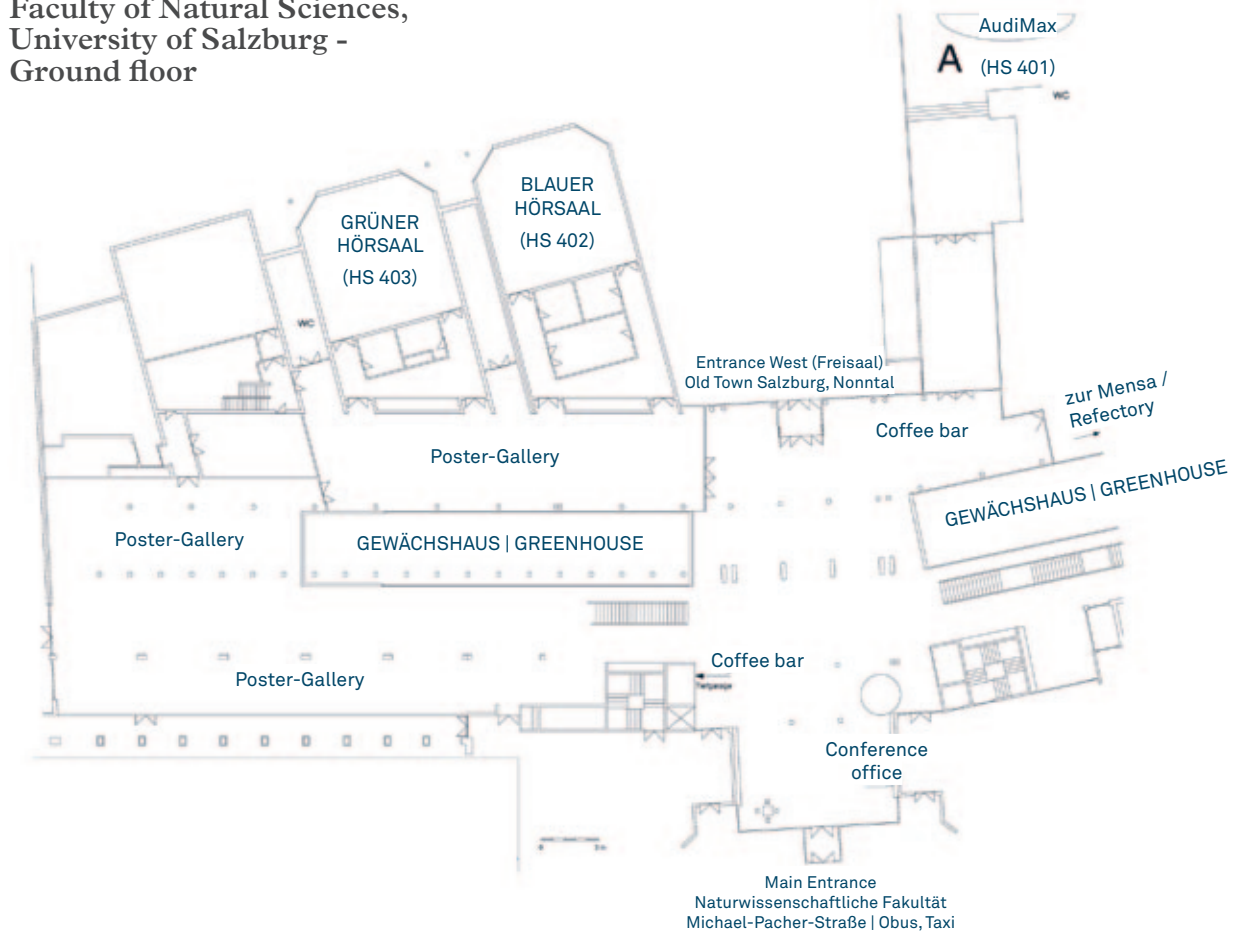
Thursday, 2 November 2017: 7:30 - 18:30
Friday, 3 November 2017: 8:00 - 17:00

Venue

Faculty of Natural Sciences, University of Salzburg
Hellbrunner Straße 34
5020 Salzburg
Austria
Web: <https://www.uni-salzburg.at/index.php?id=22311&L=1>



Faculty of Natural Sciences, University of Salzburg - Ground floor



Programme-Overview

Thursday, 2 November 2017

7:30 - Registration, FOYER

8:45 - Welcome, AUDITORIUM MAXIMUM

	ROOM HS 402 BLAUER HÖRSAAL GROUND FLOOR	ROOM HS 403 GRÜNER HÖRSAAL GROUND FLOOR	ROOM HS 401 AUDITORIUM MAXIMUM GROUND FLOOR	ROOM HS 413 SEMINAR ROOM FIRST FLOOR
9:00			Session 1.1 PARKS & PEOPLE Parks objectives in transformation: What are parks for and why do we want them?	
10:30 ☕ 30 min coffee break				
11:00	Session 2.1 PARKS & LAND USE Sustainable agriculture in protected areas	Session 2.2 PARKS & MANAGEMENT Bridging science and management in protected areas	Session 2.3 PARKS & BIODIVERSITY The different dimensions of ecological connectivity	
12:30 🍴 90 min lunch break				
14:00	Session 3.1 PARKS & LAND USE Protected areas governance and ecosystem services	Session 3.2 PARKS & MANAGEMENT Analysis of land cover changes	Session 3.3 PARKS & BIODIVERSITY Biodiversity - conservation in protected areas - part I (conservation)	
15:30 ☕ 30 min coffee break				
16:00	Session 4.1 PARKS & PEOPLE Parks and people - reconciling park management with local and regional development including integrated poster presentations	Session 4.2 PARKS & MANAGEMENT Progress in long-term research and monitoring including integrated poster presentations	Session 4.3 PARKS & BIODIVERSITY Endemic species - a neglected biodiversity treasure?! including integrated poster presentations	Session 4.4 PARKS & WATER The cryosphere in a warming climate including integrated poster presentations
18:00 ☕ 120 min individual break				
20:00			Public Evening Whatsalp Wien - Nizza 2017. Eine Fußreise durch die Alpen und ihre Großschutzgebiete. Presentation in German	
22:00 - End				

Friday, 3 November 2017

8:00 - Registration, FOYER

	ROOM HS 402 BLAUER HÖRSAAL GROUND FLOOR	ROOM HS 401 AUDITORIUM MAXIMUM GROUND FLOOR	ROOM HS 403 GRÜNER HÖRSAAL GROUND FLOOR	ROOM HS 413 SEMINAR ROOM FIRST FLOOR
8:30	Session 5.1 PARKS & LAND USE Protected forest areas - lessons learned from long-term research including integrated poster presentations	Session 5.2 PARKS & MANAGEMENT Wilderness and process dynamics including integrated poster presentations	Session 5.3 PARKS & BIODIVERSITY Biodiversity shifts in a changing climate including integrated poster presentations	Session 5.4 PARKS & WATER Alpine headwaters and lakes including integrated poster presentations
10:30 ☕ 30 min coffee break				
11:00				
12:30 🍴 90 min lunch break				
14:00	Session 7.1 PARKS & PEOPLE Integrated planning and management policies for protected areas - a European perspective	Session 7.2 PARKS & MANAGEMENT- Managing wildlife in and around protected areas		Session 7.3 PARKS & WATER Fluvial landscapes in protected areas
15:30 ☕ 30 min coffee break				
16:00	Session 8.1 PARKS & LAND USE Protected areas' landscapes as resources for human health and well-being	Session 8.2 PARKS & MANAGEMENT Conservation conflicts in protected areas	Session 8.3 PARKS & BIODIVERSITY Biodiversity - conservation in protected areas - part II (diversity)	
17:30 - 30 min break and admittance to the Gala Evening				
18:00		Gala Evening Concluding remarks on the Symposium 2017 National Parks Austria Science Award 2017 ceremony		
22:00 - End				

FOYER (POSTER-GALLERY) - *Poster-Session 6.0*

12:15 📷 **Conference group photo**
The gathering place will be announced on site.

Thursday
2 November
2017



7:30

REGISTRATION - FOYER

8:45

WELCOME – AUDITORIUM MAXIMUM

Günter Köck, Chair of the Scientific Board & ISCAR-P, Austrian Academy of Science, Vienna

Valerie Zacherl-Draxler, Federal Ministry of Agriculture, Forestry, Environment & Water Management, Vienna

Astrid Rössler, Deputy governor, Federal State Government of Salzburg

9:00

PARKS & PEOPLE - AUDITORIUM MAXIMUM

Session 1.1 - Parks objectives in transformation: What are parks for and why do we want them?

Chair: Norman Backhaus, University of Zurich (CH)

Co-Chair: Olivier Graefe, University of Fribourg (CH)

Parks objectives in transformation: What are parks for and why do we want them?

Norman Backhaus & Olivier Graefe, Key note

"What is a national park for?" - Principles of worth in a Swiss national park project.

Annina Michel, University of Zurich (CH)

Connecting nature, local cultures and tourism in subarctic landscape – a case study of local communities attached to the Varanger Peninsula National Park in Northern Norway
Morten Clemetsen, Norwegian University of Life Sciences, Aas (NO)

Transforming imagination - the role of parks in regional sustainable development processes

Jens Badura, berg_kulturbüro Ramsau (DE)

10:30  30 min coffee break*

11:00

PARKS & LAND USE - BLAUER HÖRSAAL

Session 2.1 - Sustainable agriculture in protected areas

Chair: Gregory Egger, Naturraumplanung Egger e.U., Klagenfurt (AT)

Co-Chair: Susanne Aigner, eb&p Umweltbüro GmbH, Klagenfurt (AT)

Modeling grazing intensity of grassland

Gregory Egger, Key note

Sustainable regional development approaches in Alpine biosphere reserves - Farmers' perceptions

Heidi Humer-Gruber, Institute for interdisciplinary mountain research, Innsbruck (AT)

The effects of mountain farming on biodiversity – monitoring and evaluation of vegetation changes at managed and abandoned mountain pastures in the Gesäuse National Park (Styria, Austria) in a ten years timescale

Claudia Plank, Agricultural Research and Education Centre Raumberg-Gumpenstein (AT)

An application example for modeling grazing intensity: Hohe Tauern National Park

Susanne Aigner

A regional assessment of functional diversity in different grassland systems

Christian Rossi, Swiss National Park, Zernez (CH)

11:00

PARKS & MANAGEMENT - GRÜNER HÖRSAAL

Session 2.2 - Bridging science and management in protected areas

Chair: Isabelle Arpin, Irstea - National Research Institute of Science and Technology for Environment and Agriculture, Grenoble (FR)

Co-Chair: Astrid Wallner, Swiss Park Research, Swiss Academies of Science and Arts, Bern (CH)

Collaboration between researchers and protected area managers - Empirical insights

Isabelle Arpin, Key note

Ecosystem services and pressures in European protected areas: Divergent views of environmental scientists and managers

Hermann Hummel, Royal Netherlands Institute for Sea Research, Yerseke (NL)

Best practice ScienceLink Nockberge? Benefits and challenges of five years of co-operation between biosphere reserve and university

Daniel Zollner, E.C.O. Institut für Ökologie, Klagenfurt (AT)

Adaptive management at the Ramat Hanadiv Nature Park, Israel: Expectations vs. Reality in a dry Mediterranean ecosystem

Liat Hadar, Ramat Hanadiv Nature Park, Zikhron Ya'akov (IL)

11:00

PARKS & BIODIVERSITY - AUDITORIUM MAXIMUM

Session 2.3 - The different dimensions of ecological connectivity

Chair: Yann Kohler, ALPARC – Alpine Network of Protected Areas, Chambéry (FR)

Co-Chair: Filippo Favilli, EURAC Research, Bozen (IT)

Ecological connectivity in the Alps and beyond - a long term challenge

Yann Kohler, Key note

Identification of animal-vehicle collisions hotspots in South Tyrol: preliminary analysis and further steps

Filippo Favilli, Key note

Ecological Connectivity and its contribution to a Green Economy

Yann Kohler (deputy for Grazia Withalm), Vienna University of Technology (AT)

Experimental long-term evaluation of a campaign to reduce freeriding-wildlife conflicts of snow sports

Marcel Hunziker, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Birmensdorf (CH)

How hunting and legal regulations shape ecological connectivity in the alpine region

Jonas Kahlen, University of Veterinary Medicine Vienna (AT)

12:30  90 min lunch break*



* Coffee served in the foyer
Lunch served in the refectory
(ground floor)

14:00

PARKS & LAND USE - BLAUER HÖRSAAL

Session 3.1 - Protected areas governance and ecosystem services

Chair: Angela Meyer, IDC - Organisation for International Dialogue and Conflict Management, Vienna (AT)

Co-Chair: Claudia Sattler, ZALF - Leibniz-Zentrum für Agrarlandschaftsforschung e.V., Müncheberg (DE)

Protected areas governance and ecosystem services
Angela Meyer, Session introduction

Shifting protected area strategies to evidence based governance and management

Engelbert Ruoss, Global Regions Initiative, San Nicolò di Comelico, (IT)

Participatory modelling for understanding consequences of management choices on ecosystem services and biodiversity in protected areas

Uta Schirpke, EURAC Research, Bozen (IT)

Tackling jointly the challenges of rural development and biodiversity conservation in protected areas

Gregor Giersch, IDC - Organisation for International Dialogue and Conflict Management, Vienna (AT)

Can collaborative governance approaches enhance the spatio-temporal fit between agricultural related ecosystem services?

Claudia Bethwell, ZALF - Leibniz-Zentrum für Agrarlandschaftsforschung e.V., Müncheberg (DE)

14:00

PARKS & MANAGEMENT - GRÜNER HÖRSAAL

Session 3.2 - Analysis of land cover changes

Chair: Annette Lotz, Berchtesgaden National Park (DE)

Co-Chair: Daniel Kreiner, Nationalpark Gesäuse GmbH, Admont (AT)

Analysis of land cover changes
Annette Lotz, Session introduction

Landscape monitoring in Berchtesgaden National Park – comparative spatio-temporal analysis of land cover inventories

Annette Lotz

Remote sensing based comprehensive monitoring of land cover change in protected areas

Luisa Gedon, University of Potsdam (DE)

CORINE for large-scale monitoring of protected areas in Europe

Ariane Walz, University of Potsdam (DE)

14:00

PARKS & BIODIVERSITY - AUDITORIUM MAXIMUM

Session 3.3 - Biodiversity – conservation in protected areas – part I (conservation)

Chair: Andreas Maletzky, University of Salzburg (AT)

Co-Chair: Peter Zulka, Umweltbundesamt GmbH – Environment Agency Austria, Vienna (AT)

What is biodiversity, how can it be quantified and prioritised and what does that mean for Austrian National Parks?

Peter Zulka, Key note

Uniqueness of protected areas based on priority species as a potential driver of conservation strategies in Europe

Samuel Hoffmann, University of Bayreuth (DE)

Conservation of the yellow-bellied toad in Gesäuse National Park: collecting baseline data

Magdalena Baumgartner, University of Vienna (AT)

Indicators for good management of protected areas

Urs Tester, Pro Natura, Basel (CH)

Threats of climate change to single-island endemic species in protected areas

Carl Beierkuhnlein, University of Bayreuth (DE)

15:30 ☕ 30 min coffee break *



16:00

PARKS & PEOPLE - BLAUER HÖRSAAL

Session 4.1 - Parks and people – reconciling park management with local and regional development - activities on the ground

Chair: Heino Meessen, CDE - Center for Development and Environment, University of Bern (CH)

Co-Chair: Juraj Svajda, Matej Bel University, Banska Bystrica (SK)

Participatory Management of Protected Areas in Slovakia: Reconciling nature conservation and local development
Heino Meessen, Key note

Interactions, challenges and management issues at the fringe of National Parks: The case of the Riding Mountain Biosphere Reserve, Manitoba, Canada

Christoph Stadel, University of Salzburg (AT)

Aspects of carrying capacities and recreation management: The case of Triglav National Park, Slovenia
Irena Mrak, Environmental Protection College, Velenje (SI)

Park-labeled products as a tool for innovation and regional development

Florian Knaus, UNESCO Biosphere Reserve Entlebuch, Schuepfheim (CH)

National parks and Natura 2000 sites in Polish Carpathians vs local people: changing attitudes within the past 10 years

Agata Warchalska-Troll, Jagiellonian University, Krakow (PL)

integrated poster presentations:

Community building as the key to nature protection
Dominik Noll, Social Ecology Vienna, Klagenfurt University, Vienna (AT)

Influencing behaviour of visitors and residents in protected areas

Kai Elmayer, Elmayer Institute, Hallbergmoos (DE)

16:00

PARKS & MANAGEMENT - GRÜNER HÖRSAAL

Session 4.2 - Progress in long-term research and monitoring

Chair: Thomas Scheurer, Research Council of the Swiss National Park, Bern (CH)

Co-Chair: Alois Herzig, University of Vienna (AT)

Progress in long-term research and monitoring
Thomas Scheurer & Alois Herzig, Session introduction

Life at the limit under climate change - long term ecological monitoring in the Hohe Tauern National Park
Christian Körner, University of Basel (CH)

Monitoring Alpine rivers: recent progress and future challenges

Leopold Füreder, University of Innsbruck (AT)



* Coffee served in the Foyer

Long term-monitoring of birds reveals drastic changes in the bird communities at Neusiedler See - Seewinkel National Park
Michael Dvorak, BirdLife Austria, Vienna (AT)

Rain, cost or publicity – what determines variation in visitor numbers of the Swiss National Park?
Pia Anderwald, Swiss National Park, Zernez (CH)

integrated poster presentations:

Design, implementation and performance of an ecosystem monitoring program in biosphere reserves
Vera Luthardt, Eberswalde University for Sustainable Development (DE)

Disturbance and recovery of Biological Soil Crusts (BSCs) in the high alpine region of the Hochtor (Grossglockner, Austria)
Thomas Peer, University of Salzburg (AT)

SeisRockHT – Seismic Rockfall Monitoring in the Hohe Tauern region
Daniel Binder, ZAMG - Central Institute for Meteorology and Geodynamics, Vienna (AT)

Monitoring of Saharan dust – influence on aerosol composition and snow chemistry
Marion Greilinger, ZAMG - Central Institute for Meteorology and Geodynamics, Vienna (AT)

16:00

PARKS & BIODIVERSITY - AUDITORIUM MAXIMUM

Session 4.3 - Endemic species - a neglected biodiversity treasure?!

Chair: Christian Komposch, OEKOTEAM - Institute for Animal Ecology and Landscape Planning, Graz (AT)

Co-Chair: Wolfgang Paill, Centre of Natureal History, Universalmuseum Joanneum Graz (AT)

Endemic species - Survived the ice-ages to become extinct now?
Christian Komposch, Key note

Temporal and spatial variability of bedrock, debris and glaciers in the Austrian Alps since the Alpine Last Glacial Maximum and its relevance for ecological research
Gerhard Lieb, University of Graz (AT)

Unique and highly threatened - endemic plants at the cold edge of southern Europe
Andrea Lamprecht, GLORIA Coordination - Center for Global Change and Sustainability, Institute for Interdisciplinary Mountain Research (IGF) & University of Natural Resources and Life Sciences (BOKU), ÖAW - Austrian Academy of Sciences, Vienna (AT)

Where do endemics reside? Endemic beetles in the Gesäuse National Park (Austria) and their relevance for management
Sandra Aurenhammer, OEKOTEAM - Institute for Animal Ecology and Landscape Planning, Graz (AT)

Are we willing and are we able to protect endemic species from becoming extinct?
Ute Pöllinger, Umwelthanwaltschaft Steiermark, Graz (AT)

integrated poster presentations:

***Dianthus plumarius* subsp. *blandus* – distribution and habitat features**
Walter Köppl, University of Vienna (AT)

Endemism below the species rank: Population genetics of the European Mudminnow (*Umbra krameri*)
Josef Wanzenböck, Research Institute for Limnology Mondsee, University of Innsbruck (AT)

Endemic vascular plants in the high mountains of the Sierra Nevada National Park (Spain)
Pia Eibes, University of Bayreuth (DE)

The land snail fauna of the Gesäuse National Park
Johannes Volkmer, OEKOTEAM - Institute for Animal Ecology and Landscape Planning, Graz (AT)

16:00

PARKS & WATER - SEMINAR ROOM, 1ST FLOOR

Session 4.4 - The cryosphere in a warming climate

Chair: Andrea Fischer, Institute for interdisciplinary mountain research, Innsbruck (AT)

Co-Chair: Jan-Christoph Otto, University of Salzburg (AT)

The cryosphere in a warming climate
Andrea Fischer, Session introduction

Glacial mass balance as indicator of warming climate in a protected area: the case of the Sforzellina Glacier, Stelvio National Park
Claudio Smiraglia, University of Milano (IT)

From annual glacier mass balances towards a remote monitoring of near real-time mass changes
Bernhard Hynek, ZAMG - Central Institute for Meteorology and Geodynamics, Vienna (AT)

Predicting future glacial lakes in Austria - preliminary results
Jan-Christoph Otto, University of Salzburg (AT)

Seasonal snow cover evolution in the Austrian National Parks since 1961
Roland Koch (deputy for Marc Olefs), ZAMG - Central Institute for Meteorology and Geodynamics, Vienna (AT)

Long-term monitoring of climate-sensitive cirques in the Hohe Tauern range
Ingo Hartmeyer, GEORESEARCH Forschungsgesellschaft mbH, Salzburg (AT)

Unexpected larval development in a highly-glaciated headwater
Stefan Schütz, University of Innsbruck (AT)

integrated poster presentations:

Rock glaciers – prominent landforms in (protected areas of) Austria
Thomas Wagner, University of Graz (AT)

The evolution of debris mantling glaciers in the Stelvio Park (Italian Alps) over the time window 2003-2012 from high resolution remote-sensing data
Roberto Azzoni, University of Milano (IT)

Temporal Evolution of glacier albedo in the Ortles-Cevedale group between 1984 and 2015
Davide Fugazza, University of Milano (IT)

Snowiness and their long-term variability (1961-2015) in the Karkonosze Mts. and in the Iżera Mts. (SW Poland, N Czechia)
Krzysztof Migala, University of Wrocław (PL)

18:00 // 120 min individual break

20:00

AUDITORIUM MAXIMUM

Public evening

Chair: Ulrike Berninger, University of Salzburg, Department of Ecology & Evolution

Whatsalp Wien – Nizza 2017. Eine Fußreise durch die Alpen und ihre Großschutzgebiete.
Dominik Siegrist, HSR Hochschule für Technik Rapperswil (CH)
Presentation in German

22:00 - End



Friday
3 November
2017



8:00

REGISTRATION - FOYER

8:30

PARKS & LAND USE - BLAUER HÖRSAAL

Session 5.1 - Protected forest areas – lessons learned from long-term research

Chair: Harald Vacik, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)

Protected forest areas – lessons learned from long-term research

Harald Vacik, Session introduction

Long term monitoring of natural regeneration in natural forest reserves in Austria

Harald Vacik

Water availability as a key factor of forest dynamics in protected areas - long-term perspectives inferred from tree rings

Walter Oberhuber, University of Innsbruck (AT)

From long-term ecosystem monitoring to regional modelling of ecosystem function in the Kalkalpen National Park, Austria

Thomas Dirnböck, Umweltbundesamt GmbH – Environment Agency Austria, Vienna (AT)

Naturalness and conservation status of forest habitats in the Hohe Tauern National Park Salzburg (Austria)

Ralf Klosterhuber, WLM - Büro für Vegetationsökologie und Umweltplanung Klosterhuber & Partner OEG, Innsbruck (AT)

integrated poster presentations:

Water-use strategies, survival potential and adaptation of conifer trees in the Swiss National Park under recent climatic changes

Olga Churakova (Sidorova), University of Geneva (CH)

Capturing the effects of the Danube River incision on the potential natural vegetation of the Donau-Auen National Park

Anna Schöpfer, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)

8:30

PARKS & MANAGEMENT - AUDITORIUM MAXIMUM

Session 5.2 - Wilderness and process dynamics

Chair: Klaus Katzensteiner, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)

Co-Chair: Christoph Plutzer, Social Ecology Vienna, Klagenfurt University, Vienna (AT)

Open Wounds in Thin Skin: Soil Processes after Natural Disturbances

Klaus Katzensteiner, Key note

Wilderness preserved? Representation of wild land within Austria's network of protected areas

Christoph Plutzer

Patterns of Wilderness - en route to compiling an inventory of the national processes in Gesäuse National Park (Ennstaler Alps)

Michael Jungmeier (deputy for Corinna Hecke), E.C.O. Institut für Ökologie, Klagenfurt (AT)

Natural forest dynamics following bark beetle outbreaks in the Berchtesgaden National Park – Forest structure and biodiversity during disturbance and succession

Maria-Barbara Winter, FVA - Forest Research Institute of Baden-Württemberg, Freiburg (DE)

Anthropogenic influence on glacier forefields- A study on three glacier forefields of the Austrian Central Alps

Schwiebacher Marlon, University of Vienna (AT)

integrated poster presentations:

Changes in Alpine grassland of Gran Paradiso National Park (Italy): first results from CO2 fluxes monitoring programme

Ilaria Baneschi, IGG - Institute of Geosciences and Earth Resources, CNR - National Research Council of Italy, Pisa (IT)

Science and spontaneous restoration of wilderness in Europe

Vlado Vancura, European Wilderness Society, Tamsweg (AT)

Assessment of forest wilderness in Kalkalpen National Park

Simone Mayrhofer, Kalkalpen National Park, Molln (AT)

8:30

PARKS & BIODIVERSITY - GRÜNER HÖRSAAL

Session 5.3 - Biodiversity shifts in a changing climate

Chair: Sonja Wipf, SLF - Institute for Snow and Avalanche Research, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Davos (CH)

Co-Chair: Harald Pauli, GLORIA Coordination - Center for Global Change and Sustainability, Institute for Interdisciplinary Mountain Research (IGF) & University of Natural Resources and Life Sciences (BOKU), ÖAW - Austrian Academy of Sciences, Vienna (AT)

Biodiversity shifts in a changing climate

Sonja Wipf & Harald Pauli, Session introduction

Long-term changes in summit plant diversity in the Swiss National Park

Sonja Wipf, SLF - Institute for Snow and Avalanche Research, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Davos (CH)

Species range dynamics decrease with elevation in the European Alps

Sabine Rumpf, University of Vienna (AT)

Shifting composition and functioning in alpine plant communities – Evidence of climate warming effects from 14 years biodiversity observation in the Northeastern Alps

Klaus Steinbauer, GLORIA Coordination - Center for Global Change and Sustainability, Institute for Interdisciplinary Mountain Research (IGF) & University of Natural Resources and Life Sciences (BOKU), ÖAW - Austrian Academy of Sciences, Vienna (AT)

Habitat selection of alpine chamois under different climatic conditions in the Alpine and Carpathian mountain chains

Andrej Oravec, Berchtesgaden National Park (DE)

integrated poster presentations:

Altitudinal shifts of Alpine grouses in the Veglia–Devero Natural Park, western Italian Alps

Radames Bionda, Aree protette dell'Ossola, Varzo (IT)

Survival in little? Microhabitats as refugia of high-elevated plants in the Spanish Sierra Nevada

David Kienle, University of Bayreuth (DE)

Winners and losers of climate change in the Central Alps

Lena Nicklas, University of Innsbruck (AT)

Biodiversity monitoring in the NW Italian Alps: state and expected changes

Ramona Viterbi, Gran Paradiso National Park, Turin (IT)

Bioclimatic indices in the context of biodiversity, Karkonosze Mts., SW Poland

Piotr Pawliczek, University of Wroclaw (PL)

8:30

PARKS & WATER - SEMINAR ROOM, 1ST FLOOR

Session 5.4 - Alpine headwaters and lakes

*Chair: Stefanie von Fumetti, University of Basel (CH)
Co-Chair: Leopold Füreder, University of Innsbruck (AT)*

Ecology of springs in the Swiss National Park: first results and future plans
Stefanie von Fumetti, Key note

Springs in the Bavarian National Parks as indicators for climate change
Gabi Leonhardt, Berchtesgaden National Park (DE)

Top down effects of stocked fish in Alpine lakes
Robert Schabetsberger, University of Salzburg (AT)

Springs in the National Park Gesäuse - hotspots of biodiversity
Christina Remschak, free-lances zoologist, Admont (AT)

Feeding plasticity in alpine stream chironomids: evidence from river monitoring in the Hohe Tauern National Park
Georg Niedrist, University of Innsbruck (AT)

integrated poster presentations:

Index to evaluate the vulnerability to climate change of Mayfly, Stonefly and Caddisfly species in alpine springs
Daniel Küry, Life Science AG, Basel (CH)

Faunistic assemblages of natural springs in different areas in the Swiss National Park
Lucas Blattner, University of Basel (CH)

'Unterer Eisbodensee' – a good example for the future evolution of glacial lakes in Austria
Hans Wiesenegger, Hydrographic Service, Federal State Government Salzburg (AT)

The impact of rock glaciers on the runoff of alpine catchments in protected areas of Austria
Thomas Wagner, University of Graz (AT)

Glacial lake formation in Austria since the Little Ice Age
Johannes Buckel, University of Salzburg (AT)

10:30 ☕ 30 min coffee break *

11:00

FOYER – POSTER-GALLERY

Poster-Session 6.0

12:15 📷 Conference group photo
The gathering place will be announced on site.

12:30 🍴 90 min lunch break *

14:00

PARKS & PEOPLE - BLAUER HÖRSAAAL

Session 7.1 - Integrated planning and management policies for protected areas - a European perspective

*Chair: Emma Salizzoni, Polytechnic of Turin, Interuniversity Department of Regional and Urban Studies and Planning, European Documentation Centre on Nature Park Planning, Turin (IT)
Co-Chair: Ingo Mose, University of Oldenburg (DE)*

Integrated planning and management policies for protected areas - a European perspective
Emma Salizzoni & Ingo Mose, Session introduction

Integrated planning of national parks and adjacent areas – possibilities and limits in cooperation for nature-based tourism and place making
Knut Björn Stokke, Norwegian University of Life Sciences, Aas (NO)

Governing peri-urban forestry: filling the regulation gap with Swiss "Nature-discovery-parks"?
Jerylee Wilkes-Allemann, NARP - Natural Resource Policy Group, University of Zurich (CH)

The silician system of protected areas. Integrated planning and management policies for protected areas
Filippo Schilleci, University of Palermo (IT)

Aspromonte National Park. The heart of the Metropolitan City of Reggio Calabria: design scenarios
Concetta Fallanca, University of Reggio Calabria (IT)

14:00

PARKS & MANAGEMENT - AUDITORIUM MAXIMUM

Session 7.2 - Managing wildlife in and around protected areas

*Chair: Peter Brang, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Birmensdorf (CH)
Co-Chair: Hannes Jenny, Department of Construction, Transport and Forestry, Chur (CH)*

Challenges for future wildlife management in and around protected areas
Peter Brang, Key note

Where do red deer come from and where do they go?
Thomas Rempfler, Swiss National Park, Zernez (CH)

Seasonal patterns of food use of wild boar (*Sus scrofa* L.) in a Central European floodplain forest
Elisabeth Knapp, University of Vienna (AT)

The management of wild reindeer (*Rangifer tarandus*) in Hardangervidda National Park, Norway
Ole Reidar Vetaas, University of Bergen (NO)

Local trophic cascading impact of wolves on tree regeneration in summer and winter areas of ungulates
Andrea Kupferschmid, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Birmensdorf (CH)

14:00

PARKS & WATER - SEMINAR ROOM, 1ST FLOOR

Session 7.3 - Fluvial landscapes in protected areas

*Chair: Helmut Kudrnovsky, free-lances ecologist, Kematen (AT)
Co-Chair: Werner Lazowski, Technisches Büro für Ökologie, Wien (AT)*

Fluvial landscapes - an important ecological dimension within European protected areas
Helmut Kudrnovsky & Werner Lazowski, Key note

Restoring fluvial landscapes – effects on protected areas
Thomas Hein, WasserCluster Lunz, University of Natural Resources and Life Sciences (BOKU), Vienna (AT)

The current situation of the River Enns fishfauna around the Gesäuse National Park
Clemens Gumpinger, blattfisch e.U., Wels (AT)

An improved bed load management for the Danube River in the Donau-Auen National Park. An application of the 'principle Sisyphus'
Gerhard Klasz, Consulting Engineer, Vienna & Vienna University of Technology (AT)

The recovery of ecologically and chemically impaired tributaries in the Podyí/Thayatal National Park
Christian Pichler-Scheder, blattfisch e.U., Wels (AT)

15:30 ☕ 30 min coffee break *



* Coffee served in the foyer
Lunch served in the refectory

16:00

PARKS & LAND USE - BLAUER HÖRSAAL

Session 8.1 - Protected areas' landscapes as resources for human health and well-being

Chair: Arne Arnberger, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)

Co-Chair: Günter Köck, MAB National Committee, Austrian Academy of Sciences, Vienna (AT)

Protected areas' landscapes as resources for human health and well-being – case studies from Austria
Arne Arnberger, Key note

Nature therapy and green exercise as remedies for emerging civilization diseases
Arnulf Hartl, Paracelsus Medical University of Salzburg (AT)

Effects of green exercise and waterfall aerosol on mucosal immunity and chronic stress. A randomized controlled clinical trial
Carina Grafetstaetter, Paracelsus Medical University of Salzburg (AT)

The Alpine Health Region Salzburg – an evidence-based health tourism approach for the valorization of natural resources within and outside protected areas
Christina Pichler, Paracelsus Medical University of Salzburg (AT)

Nature tourists and national parks: how important are nature and the protection status of an area for visitors?
Christine Bild, University of Marburg (DE)

16:00

PARKS & MANAGEMENT - AUDITORIUM MAXIMUM

Session 8.2 - Conservation conflicts in protected areas

Chair: Valerie Braun, Institute of Interdisciplinary Mountain Research, Innsbruck (AT)

Co-Chair: Astrid Wallner, Swiss Park Research, Swiss Academies of Science and Arts, Bern (CH)

Conservation conflicts in protected areas
Astrid Wallner, Session introduction

Trajectories of protected area creation in the Austrian Alps: two case studies
Valerie Braun

Managing externally caused impacts on protected ecosystems in a long-term perspective - lessons learnt from the Swiss National Park
Thomas Scheurer, Research Council of the Swiss National Park, Bern (CH)

Benefits of mosquito surveillance programs in protected areas: two case reports from Eastern Austria
Carina Zित्रa, University of Veterinary Medicine Vienna (AT)

Conflict Management - Case studies from the Austrian Natural Forest Reserve Programme

Herfried Steiner (deputy for Janine Oettel), BFW - Federal Research Centre for Forests, Vienna (AT)

Analysing impact of drivers and pressures on the conservation goals of protected areas along a large navigable river, the Danube River

Andrea Funk, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)

The Vertigo Effect: Institutional dynamics in nature conservation

Christina Pichler-Koban, University of Klagenfurt, E.C.O. Institut für Ökologie, Klagenfurt (AT)

16:00

PARKS & BIODIVERSITY - GRÜNER HÖRSAAL

Session 8.3 - Biodiversity – conservation in protected areas - part II (diversity)

Chair: Harald Zechmeister, University of Vienna (AT)

Co-Chair: Peter Zulka, Umweltbundesamt GmbH – Environment Agency Austria, Vienna (AT)

Ferns in the spray: the pteridophyte flora of the Krimml Waterfalls
Oliver Stöhr, REVITAL Integrative Naturraumplanung GmbH, Nussdorf-Debant (AT)

Biodiversity and forest structures at the Zurich Wilderness Park Sihlwald

Elena Haeler, HAFL - School of Agricultural, Forest and Food Sciences, University of Bern (CH)

Impact of inundation regime and meadow management on wild bee communities and bee-flower networks in the National Park Donau-Auen

Ulrich Neumüller, University of Vienna (AT)

Assessing small mammal community diversity with minimally invasive field methods - examples from the NP Gesäuse

Christine Blatt, apodemus - Privates Institut für Wildtierbiologie OG, Haus im Ennstal (AT)

Temporal variability of bacterial communities in cryoconite on an Alpine glacier

Roberto Azzoni, University of Milano (IT)

17:30 30 min break

17:30 Admittance to the Gala evening

18:00

AUDITORIUM MAXIMUM

Gala Evening National Parks Austria Science Award 2017 ceremony

with music provided by Sax4You, an ensemble of the Musikum Salzburg

Welcome

Erich Mayrhofer, chair of the National Parks Austria association, Molln (AT)
Valerie Zacherl-Draxler, Federal Ministry of Agriculture, Forestry, Environment & Water Management, Vienna

Résumé on the 6th Symposium for Research in Protected Areas 2017 as seen from the perspective of science

Valerie Braun, Institute of Interdisciplinary Mountain Research, Innsbruck (AT)

Résumé on the 6th Symposium for Research in Protected Areas 2017 as seen from the perspective of National Parks Austria

Wolfgang Urban, executive managing director, Hohe Tauern National Park, Mittersill (AT)

National Parks Austria Science Award 2017 ceremony

Awarded by: Andrä Rupprechter, Federal Minister of Agriculture, Forestry, Environment and Water Management
Chaired by: Carl Manzano, Donau-Auen National Park, Orth (AT)

Closure and Acknowledgments

Erich Mayrhofer

Gala buffet*

22:00 - End



*Gala buffet served in the refectory

Poster presentations

Parks & Biodiversity

Cristiana Cerrato, Gran Paradiso National Park, Turin (IT)

A multi-taxa approach in mountain ecosystems: a shared protocol between 6 Italian Parks

Lucrezia Forti, CREA – Council for Agricultural Research and Economics, Trento (IT)
Sustainable hunting plan as a tool of wildlife management: the Italian case

Christian Hedinger, UNA Atelier für Naturschutz und Umweltfragen, Bern (CH)
How can Swiss Regional Nature Parks improve the functionality of the ecological infrastructure? Pilot-scheme in two Nature Parks in the Canton of Berne

Barbara Höningsberger, University of Vienna (AT)
Wintering birds in floodplain forests - Effects of vegetation structure and landscape composition on species assemblages

Alexander Maringer, Gesäuse National Park, Admont (AT)
Biodiversity Assessment in Gesäuse National Park

Christian Rixen, SLF – Institute for Snow and Avalanche Research, WSL - Swiss Federal Institute for Forest, Snow and Landscape Research, Davos (CH)
Long-term changes in alpine tundra vegetation: 25 years of the International Tundra Experiment ITEX

Leopold Slotta–Bachmayr, University of Salzburg (AT)
Advanced livestock protection in protected areas

Herfried Steiner, BFW - Federal Research Centre for Forests, Vienna (AT)
Detecting a change in diversity of vascular plants in the natural forest reserve “Gaisberg” – a comparison of a systematic and representative sample approach

Harald Vacik, BOKU - University of Natural Resources and Life Sciences, Vienna (AT)
The Fagetum in the natural forest reserve Luxensteinwand - a rare element in the Waldviertel region

Karin Widerin, KFFÖ – Austrian Coordination Centre for Bat Conservation and Research, Leonding (AT)
Bat activity above 3000 m in the Austrian Alps (Hoher Sonnblick, 3106 m)

Thomas Zimmermann, Landscape Architect, Pernegg a. d. Mur (AT)
ArcGIS-generated map of FFH-habitat types for Natura-2000 site Ennstaler Alpen/ Gesäuse (Styria, Austria)

Parks & Land use

Katja Arzt, EUROPARC Germany, Berlin (DE)
New Markets for Biodiversity - new opportunities for local communities?

Albin Blaschka, AREC Raumberg–Gumpenstein, Irdning-Donnersbachtal (AT)
Tough forage on alpine pastures? Nutritional value, phenology and stand structure of alpine pastures over 20 years

Andreas Bosshard, Ecology & Landscape Ltc., Oberwil-Lieli / Zurich (CH)
Conservation of species rich grasslands by sustainable agriculture and autochthonous revegetation

Maria Kozyraki, Decentralized Administration Authority of Crete, Heraklion (GR)
Ecosystem Services: Contribution of Natura 2000 network in the economy and society of Crete

Elvis Mbeng, University of Dschang (CM)
Community livelihoods versus biodiversity conservation. Constraints to sustainability of the Santchou forest reserve in the Western highland region of Cameroon

Alessandro Paletto, CREA – Council for Agricultural Research and Economics, Trento (IT)
Stakeholders' opinions about the relevance of human activities in Natura 2000 sites: comparison among three European countries (Italy, Slovenia, Slovakia)

Michalis Probonas, University of Crete, Natural History Museum of Crete, Heraklion (GR)
Ecosystem Services in NATURA 2000 areas of Crete: Information and communication campaign for the ecological, social and economic values of ecosystem services

Frederik Sachser, BOKU – University of Natural Resources and Life Sciences, Vienna (AT)
Linking habitat dynamics and population cycles of small mammals in different mountainous forest types in Austria

Claudia Sattler, ZALF - Leibniz-Zentrum für Agrarlandschaftsforschung e.V., Müncheberg (DE)
Let's cooperate: How collaborative governance approaches can help to address institutional fit in protection areas

Ulrich Stachow, ZALF - Leibniz-Zentrum für Agrarlandschaftsforschung e.V., Müncheberg (DE)
Land use in German Biosphere Reserves and its ecological impact

Ammar Wahbi, IAEA – International Atomic Energy Agency, Vienna (AT)
Mobile Soil Moisture Management in High Elevations: Applications of the Cosmic Ray Neutron Sensor Technique for Estimating Field Scale Soil Water Content

Parks & Management

Melissa Bergmann, Biodiversity Department, Rio Grande do Sul State (BR)
Environmental damages in the Atlantic Forest Biome - A case study

Elisabeth Bondar–Kunze, WasserCluster Lunz, Inter-University Center for Aquatic Ecosystem Research, Lunz/See (AT)
How ship-induced wave trains affect periphyton communities in regulated rivers

Sonja Bürgi, Swiss Academies of Science and Arts, Bern (CH)
Increasing interest in research on protected areas in Switzerland

Lukas Fritz, University of Innsbruck (AT)
YOUrALPS - Integrating young people's concepts, educators' teaching principles and stakeholders educational tasks for a trans-formation of education and society towards sustainability in the Alps

Roman Graf, Swiss Ornithological Institute, Sempach (CH)
Biology, conservation, and promotion of Skylark populations in subalpine and alpine zones within the Beverin Natural Park, Switzerland

Sabine Hennig, University of Salzburg (AT)
The use of crowdsourced (spatial) data in visitor management. Discussed by the example of a visitor hotspot in Berchtesgarden National Park.

Simona Imperio, IGG – Institute of Geosciences and Earth Resources, CNR – National Research Council of Italy, Pisa (IT)
Effects of protection status, climate, and water management of rice fields on long-term population dynamics of herons and egrets in north-western Italy

Anne Kasper–Giebl, Vienna University of Technology (AT)
Lab above the clouds - Sonnblick Observatory and Hohe Tauern National Park

Sarah Kerle, University of Innsbruck (AT)
The Tyrolean Alps LTSER platform – connecting science and people

Markus Keuschnig, GEORESEARCH Forschungsgesellschaft mbH, Salzburg (AT)
Open Air Lab Kitzsteinhorn (OpAL) – Open innovation in high altitude

Anastasia Knorre, State Nature Reserve "Stolby", Krasnoyarsk (RU)
90-year history of observations of natural processes in the Stolby Reserve (Siberia): experience, results, prospects

Günter Köck, MAB National Committee, Austrian Academy of Sciences, Vienna (AT)
Research in protected areas funded by the Austrian National Committee for UNESCO's 'Man and the Biosphere' programme

Iris Oberklammer, University of Vienna (AT)
Dianthus plumarius subsp. *blandus* – Monitoring under extreme conditions

Gabriela Manea, University of Bucharest (RO)
Interspecific relationships within Romania's protected areas. Case study: the cohabitation between *Homo sapiens sapiens* - *Ursus arctos arctos*, in Harghita Mountains

Christian Newesely, University of Innsbruck (AT)
Climatological reference data of a newly established long-term monitoring program in the central Alps

Francesca Pittino, University of Milano (IT)
Bacterial communities changes in cryoconite on an alpine glacier

Barbara Riedler, University of Salzburg (AT)
Using an aggregated remote sensing-based habitat quality index for the identification of spatially targeted conservation measures

Larisa Semernya, UN Environment, Vienna Programme Office, Secretariat of the Carpathian Convention, Vienna (AT)
Waste management in mountain protected areas

Iuliana Vijulie, University of Bucharest (RO)
Old-grown forests of Romania: between conservation and destruction. Case studies: Retezat and Domogled-Cerna Valley National Parks

Elisabeth Weinke, University of Salzburg (AT)
Interactive web services for landslide and habitat monitoring

Parks & People

Claudia Bethwell, ZALF - Leibniz-Zentrum für Agrarlandschaftsforschung e.V., Müncheberg (DE)
People in German Biosphere Reserves

Deborah Jutzi, HAFL – School of Agricultural, Forest and Food Sciences, University of Bern (CH)
Supply of local products in Parc Ela – constraints and possible solutions

Inhye Kong, University of Georgia (US) & Seoul National University, Seoul (KR)
Prioritizing Protected Areas under the Framework of Payment for Forest Environmental Services (PFES) in northern Vietnam

Alexandra Kruse, insitu Worldheritage consulting, Buc (FR)
A tourism toll road in the biggest central European National Park – a paradigm? Or an antagonism? And what about the inhabitants' expectations? – An Example from the Hohe Tauern National Park

Marija Maksin, Institute of Architecture and Urban & Spatial Planning of Serbia, Belgrade (RS)
Zoning in spatial planning for protected areas and tourism destinations in mountain regions - challenges of the Kopaonik National Park in Serbia

Tamara Mitrofanenko, BOKU – University of Natural Resources and Life Sciences, Vienna (AT)
Potential for applying Intergenerational Practice to involve underrepresented age groups in protected area management

Parks & Water

Maja Andric, ZRC SAZU – Research Centre of the Slovenian Academy of Sciences and Arts, Ljubljana (SI)
Palaeoecological Research in the Triglav National Park (Slovenia)

Jakob Georg Balassa, IGF – Institute for Interdisciplinary Mountain Research, Austrian Academy of Science (ÖAW), Innsbruck (AT)
Decadal changes of debris cover and it's potential impact on the mass balance time series of Jamtalferner (Silvretta, Austria)

Heidi Bernsteiner, University of Salzburg (AT)
Postglacial evolution and recent siltation of the protected lake Taferlklaussee (Salzkammergut, Upper Austria)

Constantin Cazacu, University of Bucharest (RO)
Ecosystem services provided by the bio-physical structure of natural capital in the Danube Delta Biosphere Reserve Romania

Chiara Compostella, University of Milano (IT)
Ice2Water: the Idrostellvio hydrometric network

Carlo D'Agata, University of Milano (IT)
Glacier shrinkage in the Ortles-Cevedale group between 1954 and 2015

Poster presentations

Matej Gabrovec,
**ZRC SAZU - Research Centre of
the Slovenian Academy of Sciences and
Arts, Ljubljana (SI)**

The Triglav Glacier: Seventy years of regular observations

Eckart Herrmann,
**VÖH Verband Österreichischer
Höhlenforscher/ Landesverein für
Höhlenkunde in Wien und NÖ,
Vienna (AT)**

Melting underground ice masses in Hochtor massif, Gesäuse National Park – documentation and implications for the water resources of alpine karst

Haris Jahic,
University of Sarajevo (BA)

Prokoško lake – A monument to man

Gerhard Lieb,
University of Graz (AT)

Monitoring of abiotic natural processes in the Hohe Tauern National Park, Austria: A long-term approach

Christine Margraf,
**Bund Naturschutz in Bayern e.V. (BN),
Munich (DE)**

Promoting terrestrial habitat- and species-diversity as consequence of river rewilding (middle Isar, Natura 2000-area)

Eva Pölz,
**WasserCluster Lunz, Inter-University
Center for Aquatic Ecosystem Research,
Lunz/See (AT)**

The importance of heterogenous shoreline habitats for ecosystem functions in regulated rivers

Claudia Riedl,
**Sonnblick-Observatorium, ZAMG -
Central Institute for Meteorology and
Geodynamics, Salzburg (AT)**

Monitoring Permafrost at Hoher Sonnblick, Hohe Tauern, Austria

Benjamin Robson,
University of Bergen (NO)

Automatic Glacier Monitoring in the Hohe Tauern National Park

Bernd Seiser,
**IGF - Institute for Interdisciplinary
Mountain Research, Austrian Academy
of Science (ÖAW), Innsbruck (AT)**

Glacier mass balance monitoring on Venedigerkees, Hohe Tauern National Park

Antonella Senese,
University of Milano (IT)

The AWS Forni: over 10 years of measurements of the glacier energy budget in Stelvio National Park

Martin Stocker-Waldhuber,
**IGF - Institute for Interdisciplinary
Mountain Research, Austrian Academy
of Science (ÖAW), Innsbruck (AT)**

10 years of glacier mass balance monitoring on Mullwitzkees (Hohe Tauern)

Margherita Stumvoll,
University of Salzburg (AT)

Surface change modelling of small scale debris flow dynamics (Mühlsturmgraben, Berchtesgaden National Park, Germany)

Emir Temimović,
University of Sarajevo (BA)

Mountain lakes in Sutjeska National Park – evolutionary self-development

Andreas Wolf,
**Verband der deutschen Höhlen und
Karstforscher e.V., Nesselwang (DE)**

Speleology in the Berchtesgaden National Park Eiskapelle: 26 years of surveying

Maria Theresia Wurster,
ENGANGE – University of Vienna (AT)

Sedimentological downstream effects of dam failure and the role of sediment connectivity: a case study from the Bohemian Massif, Austria

Bernhard Zagel,
University of Salzburg (AT)

The mass balance series of Stubacher Sonnblickkees 1946–2016 and the semi-direct calculation of the mass balance of glaciers. A contribution to LTER Austria



Winners of the Nationalparks Austria Science Award 2017

Magdalena Baumgartner,
University of Vienna (AT)

Population ecology of the yellow-bellied toad (*Bombina variegata*) in Gesäuse National Park.

Josephin Böhm,
**University of Natural Resources and
Life Sciences, Vienna (AT)**

Basic principles for the optimization of wildlife management in Donau-Auen National Park

Agnes Demetz,
University of Vienna (AT)

Effects of floodplain dynamics on richness, abundance, composition and functional diversity of grasshopper assemblages in the Donau-Auen National Park (Austria)

Tanja Duscher,
**University of Veterinary Medicine,
Vienna (AT)**

Invasion of non-indigenous carnivores in Austria – the current status of the raccoon (*Procyon lotor*) and the raccoon dog (*Nyctereutes procyonoides*) and prospects of their future distribution

Christoph Gahbauer,
University of Graz (AT)

The Gesäuse National Park Partnership: From resistance to cooperation

Reto Grischott,
**Swiss Federal Institute of Technology
in Zurich (CH)**

Spatially and temporally variable catchment-wide denudation rates - clues from the Alps

Verena Gruber,
University of Graz (AT)

How much wilderness is left in Europe's Wilderness Areas? - A comparative analysis of selected wilderness areas in Central Europe

Claudia Hödl,
**University of Natural Resources
and Life Sciences, Vienna (AT)**

Geocaching in Austrian National Parks

Leander Khil,
University of Vienna (AT)

Important factors for predation of northern lapwing *Vanellus vanellus* nests in a central European lowland pasture system

Elisabeth Knapp,
University of Vienna (AT)

Seasonal patterns of food use of wild boar (*Sus scrofa* L.) in a Central European floodplain forest

Teresa Knoll,
University of Vienna (AT)

Development of Hybrid Poplar Stands in the Donau-Auen National Park (Austria)

Michael Kuttner,
University of Vienna (AT)

Biodiversity and Landscapes: Where is the missing link?

Verena Leitner-Klauzner,
University of Innsbruck (AT)

Education of environmental consciousness as an educational goal of the partnership between national park and new secondary school. Results of a qualitative evaluation study

Gabriele Leonhardt,
**Berchtesgaden National Park (DE)
& Michael Warscher,
Karlsruhe Institute of Technology,
Garmisch-Partenkirchen (DE)**

Water balance modeling and climate impact research in the Berchtesgaden National Park

Melanie Micek,
**University of Natural Resources and
Life Sciences, Vienna (AT)**

Study on the introgression of hybrid poplar genes in the gene pool of black poplar in the Donau-Auen National Park

Christina Nagl,
University of Vienna (AT)

Population density and habitat preferences in a Tawny Owl *Strix aluco* population in floodplain forests in Eastern Austria

Ulrich Neumüller,
University of Vienna (AT)

Impact of inundation regime and meadow management on wild bee communities and bee-flower networks in the Donau-Auen National Park

Georg Niedrist,
University of Innsbruck (AT)

Spatial and temporal variation of chironomid assemblages in high altitude streams of the Hohe Tauern National Park

Philip Nigl,
University of Graz (AT)

The expansion of the National Park Kalkalpen from the perspective of political ecology

Claudia Plank,
University of Vienna (AT)

The effects of mountain farming on biodiversity – monitoring and evaluation of vegetation changes at managed and abandoned mountain pastures in the Gesäuse National Park (Styria, Austria) in a ten years timescale

Florian Resl,
University of Vienna (AT)

Geomorphological Trails in Austria

Lena Saukel,
**University of Natural Resources and
Life Sciences, Vienna (AT)**

Visitors' use of national park services and their affinity to the Gesäuse National Park

Judith Schaufler,
**University of Natural Resources and
Life Sciences, Vienna (AT)**

Soil succession in relation to different kinds of vegetation on a subalpine forest fire site in the Northern Limestone Alps

Stefan Schöttl,
University of Graz (AT)

The potential of UAV-data for surveying sediment dynamics - A case study in the Gesäuse National Park

Stefan Schütz,
University of Innsbruck (AT)

Diversity measures indicating environmental change in alpine river ecosystems

Dominik Thom,
**University of Natural Resources and
Life Sciences, Vienna (AT)**

Disturbance impacts on forest succession, biodiversity, and ecosystem services in a changing world

Barbara Waringer,
University of Vienna (AT)

Population density and habitat preferences of the Collared Flycatcher (*Ficedula albicollis* TEMMINCK, 1815) in floodplain forests - A case study from the Donau-Auen National Park, Lower Austria.

Sarah Wendl,
**Swedish University of Agricultural
Sciences, Uppsala (SE)**

The Social Construction of Nature, An explorative investigation of the constructed meaning of Nature within four National Park exhibitions in Austria and Germany

Natascha Wild,
University of Vienna (AT)

Spatio-temporal patterns of dragonfly occurrence on meadows in the Donau-Auen National Park, Lower Austria

Gisela Wittwer,
**University of Natural Resources and Life
Sciences, Vienna (AT)**

Record and Description of the Sediments of the Flood in June 2013 in the Area of the Donau-Auen National Park

Alexandra Wunder,
University of Graz (AT)

Comparative population genetic analysis of brown trout (*Salmo trutta*) from Kalkalpen National Park

Information

Organizer:

Hohe Tauern National Park Administration Salzburg,
Gerlos Straße 18/2, 5730 Mittersill, Austria, www.hohetauern.at

On behalf of the Association National Parks Austria (Verein Nationalparks Austria), Nationalpark Allee 1, 4591 Molln, Austria, www.nationalparksaustria.at

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Project team

Staff of the eight Austrian National Park administrations responsible for the National Park management field Science and Research

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Salzburger Nationalparkfonds, Gerlos Straße 18/2,
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Concept:

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The Members of the Scientific Board support the Symposium through scientific reviewing, programming and consistent quality management. It is formed by members of ISCAR-P / ALPARC (international) & members of the Scientific Boards of the Austrian National Parks

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Dr. Thomas Wrška, University of Vienna, Austria

Mag. Kristina Bauch, Hohe Tauern National Park Salzburg, Mittersill, Austria

In cooperation with:

At the 6th Symposium for Research for Protected Areas 2017:

Faculty of Natural Sciences, University of Salzburg, Austria, www.uni-salzburg.at



Since the 3rd Symposium for Research in Protected Areas 2005:

Alpine Network of Protected Areas (ALPARC),
256, rue de la République, 73000 Chambéry, France,
www.alparc.org



International Scientific Committee on Research in the Alps (ISCAR),
Schwarztorstraße 9, 3007 Bern, Switzerland,

www.iscar-alpineresearch.org



Institute for Interdisciplinary Mountain Research (IGF), an institute of the Austrian Academy of Sciences (ÖAW),

Technikerstr. 21a, Otto Hittmair-Platz 1, 6020 Innsbruck, Austria,
www.mountainresearch.at, www.oeaw.ac.at



At the 5th Symposium for Research in Protected Areas 2013:

The Danube River Network of Protected Areas (DanubePARKS),
Nationalpark Donau-Auen, Schloss Orth, 2304 Ort/Donau, Austria,
www.danubeparks.org



International Association for Danube Research (IAD),
WasserKluster Lunz - Biologische Station GmbH, BOKU,

Max Emanuelstr. 17, 1180 Wien, Austria,
www.iad.gs



Proceedings:

The conference volume contains extended summaries of all presentations (not peer-reviewed) and will be published shortly after the event.

Conference volumes online

6 (2017) - http://epub.oeaw.ac.at/symposium_on_protected_areas
(presumably available from February 2018)

5 (2013) - www.zobodat.at/publikation_volumes.php?id=37550

4 (2009) - www.zobodat.at/publikation_volumes.php?id=34779

3 (2005) - www.zobodat.at/publikation_volumes.php?id=34776

Previous PA Research Symposia

1996, 2001, 2005 and 2009 – Kaprun Castle, Salzburg, Austria
2013 – Hohe Tauern National Park Center, Mittersill, Salzburg, Austria

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Kristina Bauch, Hohe Tauern National Park Administration, Gerlos Straße 18/2, 5730 Mittersill, Austria

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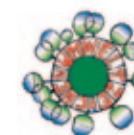
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