

## Parallel sessions I – Wednesday, August 29<sup>th</sup>, 13:00-15:15

<p><b>NEW METHODS FOR MONITORING AND MANAGEMENT OF VISITORS IN RECREATIONAL AND PROTECTED AREAS: LESSONS LEARNED, BENEFITS AND CONCERNS 1</b> Chair: <i>Ricardo Nogueira Mendes, Reto Rupf</i></p> <p><b>Using Flickr images to assess how visitors value and use natural areas: lessons from a popular natural area on the Gold Coast, Australia</b> <i>Catherine Pickering, Montannia Chabau-Gibson et al.</i></p> <p><b>A management perspective on using Public Participation GIS to monitor visitors</b> <i>Miisa Pietilä, Nora Fagerholm</i></p> <p><b>How can we use social media to know more about visitors to natural areas?</b> <i>Vanessa Teles da Mota, Catherine Pickering</i></p> <p><b>Monitoring Walkers and Hikers of Madeira Island through web-share services</b> <i>Beatriz Franco Roque, Ricardo Nogueira Mendes et al.</i></p> <p><b>VGI crowdsourcing of recreational use patterns and experiential place values for national park planning in Denmark</b> <i>Anton Stahl Olafsson, Berit C. Kaae et al.</i></p> <p><b>Assessing visitor spatial behaviour in mountain protected areas with crowdsourced photos: Examples from Argentina and Australia</b> <i>Sebastian Dario Rossi, Agustina Barros et al.</i></p>	<p><b>PARTICIPATORY PLANNING FOR NATURE-BASED TOURISM AND PLACE-MAKING</b> Chair: <i>Knut Bjørn Stokke, Dominik Siegrist</i></p> <p><b>Visitor management for nature-based tourism and community development: Participation across protected area borders</b> <i>Knut Bjørn Stokke</i></p> <p><b>Participatory management to engage society with the planning of protected areas: a mountain bike trail planning</b> <i>Teresa Cristina Magro-Lindenkamp, Carolina Bartoletti</i></p> <p><b>Community entrepreneurship and collective orientation at the intersection of place-making and nature-based tourism</b> <i>Thomas Haraldseid</i></p> <p><b>Storytelling as an intermediary between local communities and visitors in nature-based tourism</b> <i>Morten Clemetsen, Jorunn Barane</i></p> <p><b>Linking Nature and Culture in World Heritage management. Lessons learned in Norway</b> <i>Hanne Lykkja, Ann Heidi Hansen</i></p> <p><b>Whatsalp – A hiking study on protected area tourism across the Alps</b> <i>Dominik Siegrist</i></p>	<p><b>WHY COUNT? BEST PRACTICES IN THE FIELD OF DATA COLLECTION TO PRESERVE AND MANAGE NATURAL AREAS 1</b> Chair: <i>Laurent Guennoc, Liisa Kajala</i></p> <p><b>Global attendance study in the Estérel Massif to preserve and manage a protected area</b> <i>Fanny Roux</i></p> <p><b>Why count visitors? Twenty years of experiences on visitor monitoring in Finland's protected areas</b> <i>Liisa Kajala, Joel Erkkonen</i></p> <p><b>Monitoring recreational use in protected natural areas. Alt Pirineu Natural Park 2011-2017. Spain</b> <i>Estela Inés Farias-Torbidoni, Serni Morera et al.</i></p> <p><b>"Master of Data" shows some jewels from his visitor monitoring drawer (interesting results from visitor monitoring in Czechia)</b> <i>Ondrej Vitek</i></p> <p><b>Monitoring System of Tourist Traffic (MSTT) in Stołowe Mts. National Park in SW Poland</b> <i>Mateusz Rogowski</i></p> <p><b>An assessment of interrater reliability from the System for Observing Play and Recreation in Communities (SOPARC) in urban parks in New York City</b> <i>Myron F. Floyd, J. Aaron Hipp, et al.</i></p>	<p><b>RECREATION ECOLOGY AND SUSTAINABILITY</b> Chair: <i>André Cunha, Hogne Øian</i></p> <p><b>Understanding the Distance Between Humans and Brown Bears That Tourists Consider Appropriate: A Case Study at Shiretoko National Park, Japan</b> <i>Mizue Akashi, Yasushi Shoji et al.</i></p> <p><b>Spatial segmentation of hikers and wild reindeer (Rangifer tarandus tarandus) at Hardangervidda National Park: Management implications</b> <i>Sofie Selvaag, Vegard Gundersen et al.</i></p> <p><b>Bear tourism in South Kamchatka Sanctuary (Russia): visitors and wildlife monitoring and management</b> <i>Anna V. Zavadskaya, Sergey A. Kolchin et al.</i></p> <p><b>Recreation Ecology in Brazil: a preliminary review.</b> <i>André de Almeida Cunha, Teresa Cristina Magro-Lindenkamp et al.</i></p> <p><b>Reconciling outdoor sport, biodiversity and wood production in a peri-urban forest – using the example of Fontainebleau Forest</b> <i>Hay Gaétane</i></p> <p><b>Visitor influx and sustainable tourism development - paradoxes and dilemmas in the Nordic countries</b> <i>Hogne Øian, Peter Fredman et al.</i></p>
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## Parallel sessions II – Wednesday, August 29<sup>th</sup>, 16:15-18:30

<p><b>NEW METHODS FOR MONITORING AND MANAGEMENT OF VISITORS IN RECREATIONAL AND PROTECTED AREAS: LESSONS LEARNED, BENEFITS AND CONCERNS 2</b> Chair: <i>Catherine Pickering, Miisa Pietelä</i></p> <p><b>Monitoring methods of winter backcountry recreation in a wildlife sanctuary</b> <i>Reto Rupf, Adrian Stäuble</i></p> <p><b>The impact of hiking on visitors' consumer behavior on the French shores</b> <i>Orsolya Czelgledi, Noemi Garcia-Arjona et al.</i></p> <p><b>Looking back at recreational activities in protected areas using VGI from web-share services</b> <i>Ricardo Nogueira Mendes, Carlos Pereira da Silva</i></p> <p><b>Using volunteered geographic information to assess the visitor use of parks</b> <i>Patrick Norman, Catherine Pickering</i></p> <p><b>Multicriteria analysis a proposal of revitalization of the ancestral trails of the Serra da Estrela Natural Park (PNSE)</b> <i>Sofia Bizarro, Ricardo M. Nogueira Mendes et al.</i></p> <p><b>A decade worth of progress in the participatory monitoring and management of visitors in recreational and protected areas</b> <i>Isabelle D. Wolf, Ricardo Nogueira Mendes</i></p> <p><b>Tranquility mapping for soundscape management: From concept to reality</b> <i>Jeff Dalley</i></p>	<p><b>REGIONAL PARKS AND TERRITORIAL ORGANIZATIONS FOR SUSTAINABLE DEVELOPMENT</b> Chair: <i>Jean-Bernard Marsat, Kristin Godtman Kling</i></p> <p><b>Carrying out both management of visitors and socio-economic development in a labelled protected area: the role of a Regional Nature Park (RNP)</b> <i>Jean-Bernard Marsat, Christine Montoloy</i></p> <p><b>Issues on Footpaths Linking Attractive Public Open Spaces in Hokkaido: from the Perspective of Recreational Use of the Countryside</b> <i>Hiroshi OTA, Satoshi KASAMA et al.</i></p> <p><b>Approval of Black Forest National Park by local companies</b> Dominik Rueede</p> <p><b>Negotiating co-existence in multifunctional landscapes: trails as facilitators for communication</b> <i>Kristin Godtman Kling, Sandra Wall-Reinius</i></p> <p><b>Socio-environmental conflicts in the Cerrado Protected Areas of Chapada dos Veadeiros: a discursive treatment of tourism and development in Brazil</b> <i>Nayara Rodrigues Marques, André de Almeida Cunha et al.</i></p> <p><b>From canyoning to agritourism and cultural tourism. The diversification in lower or mid-altitude ski resort, French Alps</b> <i>André Suchet</i></p>	<p><b>WHY COUNT? BEST PRACTICES IN THE FIELD OF DATA COLLECTION TO PRESERVE AND MANAGE NATURAL AREAS 2</b> Chair: <i>Laurent Guennoc, Martin Goossen</i></p> <p><b>Visitor counting combining new technologies; PIR &amp; LoRa with Arduino</b> <i>Martin Goossen, Lars Uphus</i></p> <p><b>Complex surveys for monitoring climbers in Mt.Fuji, Japan</b> <i>Yutaka Nakajima, Natsumi Izu</i></p> <p><b>Predicting visitor densities in protected areas – rules of thumb for managers based on GPS-tracks</b> <i>Rogier Pouwels, Michiel van Eupen et al.</i></p> <p><b>Monitoring of illegal human activities in the Tatra National Park, Poland</b> <i>Sitarz Magdalena, Bukowski Marcin et al.</i></p> <p><b>Monitoring Visitor Numbers with Computer Vision</b> <i>Jeroen Staab, Hannes Taubenböck et al.</i></p> <p><b>Challenges and opportunities using webcams and time lapse cameras to evaluate use of parklands and open space</b> <i>J. Aaron Hipp, Ladan Ghahramani et al.</i></p>	<p><b>OUTDOOR SPORTS AND ENVIRONMENTAL CONTROVERSIES</b> Chair: <i>Clémence Perrin-Malterre, Guðrún Helgadóttir</i></p> <p><b>Collaborative management methods for outdoor sports in the Vanoise National Park</b> <i>Clémence Perrin-Malterre</i></p> <p><b>Snowmobiling and free riding in the Jämtland mountains, Sweden</b> <i>Rosemarie Ankre</i></p> <p><b>In-depth knowledge of visitors: a key element to awareness raising in the context of environmental controversy in protected areas.</b> <i>Gruas Léna, Perrin-Malterre Clémence</i></p> <p><b>Riding horses in protected areas – heritage and/or harm?</b> <i>Guðrún Helgadóttir, Ingibjörg Sigurðardóttir</i></p> <p><b>Nature sports and environmental impacts: what do participants think?</b> <i>Thierry Michot, Julien Fuchs</i></p> <p><b>New Directions in Sustainable Recreation Research: Results of a U.S. National Assessment and Multi-stakeholder Workshop</b> <i>Steve Selin, Anna B. Miller et al.</i></p>
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## Parallel session III – Thursday, August 30<sup>th</sup>, 8:30-10:45

### MARINE PROTECTED AREAS – NEW REQUIREMENTS FOR VISITOR MONITORING AND MANAGEMENT?

Chair: *Ingrid Peuziat, Richard Stones*

#### Limited awareness by recreation users' of French marine protected area: is there a flip side to the soft management approach?

*Alix Cosquer, Michael Hughes et al.*

#### Visitation 'Barometer' as a tool for environmental management and awareness: the Berlengas Nature Reserve case-study

*Alexandra Gil, Catarina Fonseca et al.*

#### Profiles of water-oriented outdoor recreation groups in Denmark

*Berit C. Kaae, Anton S. Olafsson*

#### UK National Marine Parks: Managing Tourism and Recreation Through A Paradigm Shift of Corporate Social Responsibility (CSR).

*Richard Stones*

#### Nautical tourism ecological footprinting (NatEF) – experiences from east Adriatic in developing assessments

*Hrvoje Carić, Dario Omanović*

#### The participation of tourism and outdoor recreation interests in coastal national park management in Norway – a lack of integration?

*Jan Vidar Haukeland Knut Bjørn Stokke*

### MANAGING VISITORS IN ICELAND'S RECREATIONAL AREAS

Chair: *Georgette Leah Burns, Guðrún Þóra Gunnarsdóttir*

#### Seal Watching in Iceland: Ethical Management Development

*Jessica Faustini Aquino, Georgette Leah Burns et al.*

#### Hydropower and Tourism: Visitor and Operator perspectives on preferred use of natural areas

*Georgette Leah Burns, Laufey Haraldsdóttir*

#### Tourism as a Tool for Nature Conservation?

*Auður H Ingólfssdóttir, Guðrún Þóra Gunnarsdóttir,*

#### How the „essence of the attraction" provides an important foundation for decisions on sustainable development of nature-based tourism destinations

*Gunnthóra Olafsdóttir*

#### Image analysis to assess hiking impact in Icelandic vegetation communities

*Micael Runnström, Rannveig Olafsdóttir*

#### Expanding carrying capacity assessment from the site-level to the national-level: An Icelandic Case Study

*Nathan Reigner, Ólafur Árnason et al.*

### NATURE-BASED TOURISM TRENDS, MARKETS AND INNOVATIVE PRODUCTS

Chair: *Peter Fredman, Ulrike Pröbstl-Haider*

#### Prominent trends in nature-based tourism – An international comparison

*Peter Fredman, Jan Vidar et al.*

#### E-Mountain Biking – Potential for Swiss Tourism Destinations

*Wytttenbach Martin, Walker Daniela et al.*

#### Nature-based tourism firms and community resilience

*Magnar Forbord, Kreg Lindberg et al.*

#### The digital future and its possible influence on winter tourism in the European Alps

*Ulrike Pröbstl-Haider*

#### Park visitor segmentation to inform park management, marketing and product development

*Kelly de Bie*

### NATURE BASED INTEGRATION

Chair: *Sandra Gentin, Margrete Skår*

#### Nature based integration in Europe – a review

*Sandra Gentin, Kati Pitkänen et al.*

#### Nature-based integration in the Nordic countries – practices and perspectives

*Søren Præstholt, Sandra Gentin et al.*

#### Perception of Forests and Forest Management by Germans and Migrants using Photovoice

*Gerd Lupp, Korinna Käsbauer*

#### Naturalness and perceived safety in urban green areas. Case study from Tallinn, Estonia

*Mart Reimann, Piret Kuldna et al.*

#### Urban, proximate nature - how is it important in a Norwegian and multi-cultural context?

*Margrete Skår, Stine Rybråten*

## Parallel session IV – Friday, August 31<sup>st</sup>, 8:30-10:45

<p><b>POST-DATA COLLECTION USES OF VISITOR MONITORING DATA 1</b> Chair: <i>Robert C. Burns, Damien Le Guyader</i></p> <p><b>Use of various types of data in decision-making: A transportation case study in Seattle, Washington, USA</b> <i>Robert C. Burns</i></p> <p><b>Managing geocaching in a protected area – what actions were taken in the Donau-Auen National Park, Austria over the last three years?</b> <i>Claudia Hödl</i></p> <p><b>Quantifying effects of signs on visitor flow in NP Krka</b> <i>Jasminka Klanjšček, Sunčana Geček,</i></p> <p><b>Use of game cameras and interviews to monitor visitors: is there crowding in the Iguazu National Park - Brazil?</b> <i>Jasmine Cardozo Moreira, Robert C. Burns et al.</i></p> <p><b>Elaboration and implementation of a cultural services' indicator of impacts in the Mediterranean: a first diagnosis</b> <i>Chazée Laurent, Requier-Desjardins Mélanie</i></p> <p><b>Counting visitors in Marine Protected Areas and after? A statistical modelling experiment to estimate the spatial and temporal distributions of recreational coastal activities</b> <i>Damien Le Guyader, Nicolas Jannic et al.</i></p>	<p><b>INTERPRETATION AS A TOOL FOR CONNECTING VISITORS TO AND MANAGING VISITORS IN PROTECTED AREAS</b> Chair: <i>Elizabeth A. Halpenny, Betty Weiler</i></p> <p><b>Interpretation program perceptions: A comparison of Alberta Parks staff views of visitor trends, program opportunities, challenges, and outcomes</b> <i>Clara Jane Blye, Elizabeth A. Halpenny et al.</i></p> <p><b>Social media in parks and conservation areas: A case study of “virtual visitors” from the Facebook page of Yellowstone National Park</b> <i>Zachary D. Miller, Wayne A. Freimund</i></p> <p><b>Learning during guided wildlife tours in protected areas and its implications for behavioural change and stewardship</b> <i>Jonathon Spring</i></p> <p><b>Nature Interpretation in Protected Areas: Connecting with Gen Y</b> <i>Betty Weiler, Isabelle D. Wolf et al.</i></p> <p><b>Mobile apps as nature-based tourism experience facilitator: A conceptual approach</b> <i>Tatiana Chekalina, Matthias Fuchs</i></p> <p><b>Development of interpretative trails in Brazilian protected areas</b> <i>Douglas de Souza Pimentel, Camila Pinto Meireles</i></p> <p><b>A framework for integrating values into persuasive communication: Value orientations, elaboration, and the theory of planned behavior</b> <i>Zachary D. Miller, Wayne A. Freimund et al.</i></p>	<p><b>MONITORING OF OUTDOOR RECREATION ON NATIONAL LEVEL – METHOD UPDATES AND CHALLENGES</b> Chair: <i>Eija Pouta, Tuija Sievänen</i></p> <p><b>Estimating Daily Exiting Traffic from National Forest Recreation Sites Using Short-term Observational Counts</b> <i>Donald B.K. English, Stanley J. Zarnoch et al.</i></p> <p><b>Nature based sports in forest areas in France. Results from the 2015 French national survey “Forest and society”</b> <i>Anne-Marie Granet, Maxime Cordellier et al.</i></p> <p><b>Recreation monitoring: experiences of responding in web-surveys and prospects for future</b> <i>Marjo Neuvonen, Tuija Sievänen</i></p> <p><b>Accounting for cultural ecosystem services: a case of recreation services in Finland</b> <i>Eija Pouta, Tuija Sievänen et al.</i></p> <p><b>A synthesis of recreation values of European forested areas and implications for national benefit transfers</b> <i>Kateřina Kaprová, Jan Melichar et al.</i></p> <p><b>Visitor Numbers for Protected and Nature Areas: A Global Data Sharing Initiative</b> <i>Jan Philipp Schägner, Arne Arnberger et al.</i></p>	<p><b>ENVIRONMENTAL EFFORT IN RECREATIONAL AND PROTECTED AREAS AT RISK FROM INEQUALITY</b> Chair: <i>Ginelli Ludovic, Marianna Strzelecka</i></p> <p><b>Impact based management of recreational uses: a fair share of environmental effort? A sociological approach applied to two French national parks</b> <i>Ginelli Ludovic</i></p> <p><b>Managing Visitors and Environments: Resident. Perspectives on Amenity Values in Mexico</b> <i>Natalia Espinoza Garcia, Jack Corbett</i></p> <p><b>Reconciling Small Scale Protected Area Designation with Local and Traditional Land Uses: two Nova Scotia cases</b> <i>Glyn Bissix, Ross Firth</i></p> <p><b>Collaboration with Communities Living next to Protected Areas, for the Conservation of Biodiversity, Landscape and Heritage in Israel</b> <i>Shaul Goldstein, Raya Shurki et al.</i></p> <p><b>Toward recognition justice through empowerment in Natura 2000 ecotourism.</b> <i>Marianna Strzelecka, Malgorzata Grodzinska-Jurczak et al.</i></p> <p><b>Conservation, tourism and fishermen communities in the Toliara region (SW Madagascar)</b> <i>Durand Marie-Hélène, Thomassin Bernard A. et al.</i></p>
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## Parallel session V – Friday, August 31<sup>st</sup>, 13:00-15:15

### POST-DATA COLLECTION USES OF VISITOR MONITORING DATA 2

Chair: *Arne Arnberger, Marcel Hunziker*

**Using visitor monitoring data to manage mountain-biking use in the Wienerwald Biosphere Reserve, Austria**

*Arne Arnberger, Hemma Preisel et al.*

**Status of, issues with, and manager attitudes toward visitor monitoring in Japan's national parks**

*Tetsuya Aikoh, Reiko Gokita*

**Experimental Long-Term Evaluation of Measures to Reduce Biker-Hiker Conflicts – an Example of an Urban Forest in Switzerland**

*Marcel Hunziker, Annick Kleiner et al.*

**Making use of visitor incident data in Karijini National Park: A Western Australian case study**

*Anna M. Gstaettner, Michael Phillips et al.*

**Estimating angling impacts on remote fisheries: An angler use and preference study in the central Appalachian Mountains, USA**

*Kyle J. Hartman*

**Accuracy of estimated number of visitors gained through different monitoring methods and its implications on economic analysis**

*Markéta Braun Kohlová, Jan Melichar et al.*

**Mode Effect and Response Rate Issues in North American Mixed-Mode Survey Research: Implications for Recreational Fisheries Management**

*Gerard Kyle, Kenneth Wallen et al.*

### PLACE BASED KNOWLEDGE AND ENVIRONMENTAL ENGAGEMENT

Chair: *Catherine Verreault, Kota Mameno*

**Sharing the Stewardship of a Canadian Conservation Park**

*Christie Spence, Catherine Verreault*

**Unplanned trail creation in Gatineau Park, Canada: engaging users in finding a sustainable solution**

*Catherine Verreault, Christie Spence*

**Fostering park tourism and recreation knowledge-informed management: A case from Alberta Parks**

*Halpenny, Gould et al.*

**Involving recreational users in environmental management: invasive aquatic plants in lakes on France's Atlantic coast**

*Dehez Jeoffrey, Ginelli Ludovic et al.*

**Understanding the value of opportunities for tourist support in managing non-native invasive species**

*Kota Mameno, Yasushi Shoji et al.*

**Reconciling Traditional and Recreational Activities in the 100 Wild Islands**

*Ross Firth, Peter Green*

### OUTDOORS ECONOMICS 1 - CONTRIBUTIONS TO THE ECONOMY

Chair: *Donald B.K. English, Tina Highfill*

**Regional economic impacts of tourism in German Biosphere Reserves**

*Manuel Engelbauer, Lisa Majewski et al.*

**Introducing the Outdoor Recreation Satellite Account**

*Tina Highfill, Connor Franks et al.*

**The footprint of outdoor recreation on the Danish national economy**

*Frank Søndergaard. Jensen, Lars-Bo Jacobsen et al.*

**Measuring Tourism in Public Natural Parks in Japan**

*Yoshiaki Shimazaki, Christian Crowley et al.*

**Measuring the spending of visitors to U.S. national forests over two decades**

*Eric M. White, Donald B.K. English*

**U.S. Federal Recreation: Diverse Lands, Diverse Agencies – Comparing Agency Methods of Monitoring Visitation and Estimating Economic Impacts**

*Christian Crowley, Sarah Cline*

**Economic contributions from tourism in a Brazilian National Park at the frontier of the Cerrado biodiversity hotspot**

*André de Almeida Cunha, Paula Oliveira Gomes et al.*

### TRAIL RUNNING AND SPORTING EVENTS IN PROTECTED AREAS: PROGRESS ON RESEARCH AND MANAGEMENT

Chair: *Yu-Fai Leung, Rannveig Ólafsdóttir*

**Environmental perception of long distance runners in the Icelandic highlands: a comparative study between 2007 and 2018**

*Rannveig Ólafsdóttir, Anna Dóra Sæþórsdótti et al.*

**Monitoring and Management of recreationists along long-distance National Scenic Trails**

*Jeremy Wimpey, Nathan Reigner et al.*

**Trail degradation and organized sporting events in Hong Kong**

*Sai-Leung Ng, Yu-Fai Leung et al.*

**Issues on trail runners, Trail running and recreational and protected areas in Portugal**

*Rui Pedro Julião, Marta Valente et al.*

**Assessing and Managing Trail Use and Endurance Activities in Grand Canyon National Park, USA**

*Peter Pettengill, Ryan Sharp et al.*

**Trail running in Spain. An approach to assess the territorial impact on Nature 2000**

*Víctor Dorado, Estela Inés Farias-Torbidoni et al.*

**The development of Trail Station: an innovation to serve tourist development of territories? Two examples of Saint-Pierre de Chartreuse (Alps) and Ossau-Pyrénées (Pyrénées) stations**

*Bessy Olivier, Buron Glen*

Parallel session VI – Friday, August 31<sup>st</sup>, 15:30-17:45

	<p><b>PREFERENCES AND REPRESENTATIONS OF NATURE</b> Chair: <i>Philipp Sacher, Mareike Garms</i></p> <p><b>Wilderness in German national parks: The gap between rhetoric and reality</b> <i>Mareike Garms, Marius Mayer</i></p> <p><b>Sounds as an element of human-coupled systems: Social-ecological evidence from Muir Woods National Monument</b> <i>Peter Newman, Zachary D. Miller et al.</i></p> <p><b>Assessment of the scenic beauty and attitudes towards deadwood experiment plots in the Bavarian Forest National Park, Germany</b> <i>Philipp Sacher, Michael Sobek et al.</i></p> <p><b>Landscape preferences of tourists hiking in the trails of S. Miguel Island (Azores, Portugal): importance for conservation</b> <i>Maria Anunciação M. Ventura, Ana Moniz et al.</i></p> <p><b>Mapping of landscape attractiveness for the development of a monitoring indicator for Mediterranean wetlands: "Landscape perception indicator". Ichkeul protected area case study, Tunisia</b> <i>Faiza Khebour Allouche, Laurent Chazee et al.</i></p> <p><b>Biodiversity of Paklenica National Park as a prerequisite for the development of special types of tourism</b> <i>Anđelko Vrsaljko, Ivana Trošelj,</i></p>	<p><b>OUTDOORS ECONOMICS 2 - MARKETS, VALUES AND ORGANIZATIONS</b> Chair: <i>Marius Mayer, Jeoffrey Dehez</i></p> <p><b>Revealed and stated preferences and their determinants for cross-border visits of protected areas in the Polish-German border region</b> <i>Marius Mayer, Gabriel Gach</i></p> <p><b>Place-based approach to outdoor recreation economics: empirical analysis of recreational demand in forests</b> <i>Dehez Jeoffrey, Lyser Sandrine et al.</i></p> <p><b>Governance and economic impact of whale-watching. The case of El Vizcaíno Biosphere Reserve, Baja California, Mexico</b> <i>Ludger Brenner, Marius Mayer</i></p> <p><b>How to sustainably manage recreational fishing? A meta-analysis of technical regulation instruments</b> <i>Fathallah Kerouaz</i></p> <p><b>Economics of supply of outdoor recreational opportunities – conceptual foundations and state of literature in Germany–</b> <i>Volkmar Hartje</i></p>	<p><b>OUTDOORS, HEALTH AND WELLNESS</b> Chair: <i>Liisa Tyrväinen, Birgit Elands</i></p> <p><b>Understanding the demand for ecosystem services provided by parks and green spaces: Using the partial profile choice experiment</b> <i>Hyerin Kim, Yasushi Shoji et al.</i></p> <p><b>Back to the North Japan Alps: A Comparative Investigation of Incident Causes and Risk Profiles of Different Alpine Areas</b> <i>Akihiro Kobayashi, Thomas Jones</i></p> <p><b>Nature for physical activity promotion –role of green infrastructure in Finland</b> <i>Liisa Tyrväinen, Marjo Neuvonen et al.</i></p> <p><b>Future stewards? Connection to nature starts from childhood experiences in nature areas</b> <i>Birgit Elands, Louwra Postma et al.</i></p> <p><b>Healthy Parks, Healthy People Finland</b> <i>Matti Tapaninen, Liisa Kajala et al.</i></p>
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## Poster session– Wednesday, August 29<sup>th</sup>, 15:15-16:15 (1/2)

### **Trends and awareness of foreign visitors in national parks – a case study of national parks in Japan**

*Tetsuya Aikoh, Maoqi Wang, et al.*

### **Stakeholders' perceptions towards factors of influence on the choice of places for adventure races**

*Carolina Bartoletti, Teresa Cristina Magro-Lindenkamp et al.*

### **Development of a Systematic Visitor Monitoring Program for Brazil Parks and Protected Areas**

*Robert C. Burns, Jasmine Cardozo Moreira*

### **Informed visitor management in protected areas – lessons learned from Croatian experiences**

*Hrvoje Carić, researcher, Marko Jakelić et al.*

### **Preliminary results on evaluating and modelling impacts of recreational trails in the Azorean native forests**

*Rui Miguel dos Santos Mendes Carvalho, Pedro Cardoso et al.*

### **Impacts of visitation on a trail evaluated through a combined methodology**

*Luciana Silva de Assis, Douglas de Souza Pimentel*

### **A survey of visiting rate to National Parks of Greece**

*Efthimiou Georgios, Roussou Maria*

### **Has cruise tourism pushed marine ecosystems to the 'tipping-point' of their physical-ecological carrying capacity? – Perceptions of stakeholders.**

*Myrna Ellis*

### **Optimizing the use of the Eco-counters tool. A case of study**

*Estela Inés Farias-Torbidoni Serni Morera*

### **Preserve and manage Mercantour National Park using pedestrian data collection**

*Maiwenn Gloaguen*

### **Exploring responsibility-sharing between visitors and managers: Results of a Delphi study**

*Anna M. Gstaettner, Betty Weiler et al.*

### **A Study on Comfort Evaluation using Brain Waves and Questionnaire Survey in Green Spaces CG**

*Teppeï Ishiuchi*

### **A study on the "Patterns" of outdoor public spaces in tourist destinations that make the sight attractive**

*Satoshi KASAMA, Yasuaki MATSUDA*

### **Frequency of preschool children's outdoor physical activity and relations to body mass index and motor performance**

*Daniel Klein, Stefan Türk et al.*



## Poster session– Wednesday, August 29<sup>th</sup>, 15:15-16:15 (2/2)

### **Risk factors associated with practicing Mountainbiking on single-use bikepark trails**

*Kowalski Przemysław, Zieliński Miłosz et al.*

### **Can we predict visitor loyalty in protected areas? The case of Kornati National Park**

*Martina Markov, Ana Perišić et al.*

### **How do global changes affect ski resorts and how do ski resorts adapt to global changes? General trends and local responses**

*Massart Clémence, Emmanuelle George et al.*

### **Renovation of the tourist trails in the Tatra Mountains**

*Mazik Marta*

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