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Österreichisches Nationalkomitee
Man and the
Biosphere Programme

ÖAW

ÖSTERREICHISCHE
AKADEMIE DER
WISSENSCHAFTEN

AUSTRIAN CONTRIBUTIONS TO UNESCO'S MAN AND THE BIOSPHERE PROGRAMME (MAB)

Summary Report for the Period May 2022 – May 2023



Typical landscape in the BR "Sakzburger Lungau and Kärntner Nockberge" (Photo: Claudia Köck)

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1. NATIONAL COMMITTEE ACTIVITIES AND FUNDING:

On occasion of the EuroMAB 2022 Conference in Bad Kleinkirchheim (Austria), the Austrian MAB Programme celebrated its 50th anniversary. The Austrian MAB Committee was established in 1972, just one year after the founding of UNESCO's MAB Programme, on the basis of a contract with the Austrian Ministry of Education, Science and Research (BMBWF) and the Austrian Academy of Sciences (ÖAW). Austria was thus among the first nations to participate in the MAB Programme.

Since 2011 MAB-Austria is part of the research structure "Earth System Sciences (ESS)". ESS, an initiative of the Austrian Academy of Sciences, financed by the Federal Ministry of Education, Science and Research aims at studying the physical, chemical, hydrological, biological, social, technological and economic processes of the Earth System and their interaction. ESS is an interface between Austrian science and international research and is directly integrated in international research programmes and cooperation (e.g. UNESCO's MAB, IGCP and IHP programmes, WCRP, UNISDR, LTER, ISCAR, Future Earth) through its three National Committees *Global Change*, *Geo/Hydro-Sciences*, and *Man and the Biosphere (MAB)*. These NCs, made up of renowned scientists and representatives of several ministries and federal organizations, monitor the Austrian research community, analyse its strengths and knowledge gaps and work out targeted new research foci. The MAB National Committee supports and advises Austrian biosphere reserves (BRs), develops guidelines and criteria, stimulates and funds research projects and assists research in BRs.

Members of the Austrian MAB National Committee:

Chair:

Prof. Dipl.-Ing. Dr. Marianne Penker, Institute for Sustainable Economic Development, Department of Economics and Social Sciences, University of Natural Resources and Life Sciences, Vienna, Feistmantelstraße 4, A-1180 Vienna, Austria. Phone: +43-1-47654-73115; marianne.penker@boku.ac.at;
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Vice Chair:

Assoc. Prof. Dipl.-Ing. Dr. Arne Arnberger, Institute of Landscape Development, Recreation and Conservation Planning, Department of Spatial-, Landscape-, and Infrastructure-Sciences; University of Natural Resources and Life Sciences, Vienna. Peter-Jordan-Straße 65, 1180 Vienna Austria. Phone +43-1-47654-85315, Fax +43-1-47654-85309, arne.arnberger@boku.ac.at; <https://www.rali.boku.ac.at/ilen/personen/arne-arnberger/>

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Other Members:

Em. Univ. Prof. Dr. Marina Fischer-Kowalski (University of Natural Resources and Life Sciences Vienna)

A.o. Univ. Prof. Dr. Norbert Weixlbaumer (University of Vienna)

Dr. Günter Köck (ÖAW-Institute for Interdisciplinary Mountain Research, Innsbruck), Representative to the MAB-ICC)

Univ. Prof. Dr. Sigrid Stagl (University of Economics and Business Vienna)

Dr. Elisabeth Haring (Natural History Museum Vienna)

Dr. Harald Pauli (ÖAW - Institute for Interdisciplinary Mountain Research, University of Natural Resources and Life Sciences Vienna)

Dr. Franz Essl (University of Vienna)

Prof. Dr. Volker Mauerhofer (Mid-Sweden University, Östersund, Sweden)

Mag. Martin Fritz (Austrian Commission for UNESCO)

Mag. Ernst-Peter Brezovsky (Federal Ministry of Europe, Integration and International Affairs)

Dr. Karolina Begusch-Pfefferkorn (Federal Ministry of Education, Science and Research)

Dr. Helmut Kudrnovsky (Environmental Agency Austria)

DI Maximilian Albrecht (Austrian Federal Provinces)

Dr. Gerhard Bachner (Federal Ministry of Agriculture, Regions and Tourism)

DI Arno Mohl (World Wildlife Fund for Nature)

Three meetings of the Austrian National Committee for MAB took place in the reporting period. The managers of the Austrian BRs participated in the meeting and reported about activities in their region and discussed future research strategies with the committee members. One of the meetings was traditionally held in an Austrian BR, this time on the occasion of the EuroMAB 2022 conference in the Nockberge region. In addition, several online meetings of a core group of the National Committee were held to prepare the EuroMAB conference.

The annual funding for the MAB Committee, provided by the Austrian Ministry for Education, Science and Research, is

EURO 180.000,- = US\$ 197.222,-¹

¹ Exchange rate per 20/04/2022

This funding is entirely used for research projects and additional MAB-related activities.

2. CURRENT RESEARCH PROJECTS WITHIN THE FRAMEWORK OF MAB:

According to the research agenda for the Austrian MAB Programme, and in response to the priorities set by the International MAB Council, the Austrian National MAB-Committee has focused its research activities predominantly on the needs of Austrian BRs. However, to deepen the involvement of Austrian expertise in international MAB research, the MAB Committee is also funding international research cooperations with BRs and BR projects in foreign countries. Some of the projects approved in the last 8 years include international cooperation with BRs or BR candidates in Peru, Brazil, Greece, Spain, Switzerland, Germany and UK.

In July 2022, the MAB Committee has launched a new call for MAB research projects, aimed at inter- and transdisciplinary research in and for UNESCO biosphere reserves. Within the framework of an international review process, the four best-ranked projects with a total funding volume of approximately 565,000 € euros were approved in Dezember 2022.

Similar to the years 2017 and 2019 the MAB National Committees of Austria and Switzerland have again agreed on a closer cooperation on the MAB sector. The Swiss MAB Committee will financially support collaboration projects between Austrian and Swiss BRs. In addition, the German MAB National Committee has agreed to support cooperative projects between Austrian and German BRS for the current call.

Currently four research projects are funded through the Austrian MAB Programme:

Project Title	Coordinator
Multi-hazards in Biosphere Reserves - Management of multiple hydro-climatic risks to improve the social-ecological resilience (MultiBios)	T. Thaler (University of Natural Resources and Life Sciences Vienna)
Valeriana celtica subsp. norica – Sustainable and equitable use of an endemic plant in the Salzburger Lungau & Kärntner Nockberge UNESCO Biosphere Reserve: co-creating a historical review, analyzing the status and co-creating future perspectives (SPEIK)	M. Jungmeier (University of Applied Science)
Integrating learning with geoinformation for a digitised and spatially enabled education for sustainable development (ESDplus)	S. Henning (University of Salzburg)
Alpine pasture-analysis for a sustainable future (Alpanach)	M. Immitzer (University of Natural Resources and Life Sciences Vienna)

An additional MAB research project entitled “BIOSS - Biosphere reserves as models for Science-Society interaction to spur sustainability transformations in mountainous areas” (Katharina Gugerell, University of Natural Resources and Life Sciences Vienna) is funded through the ESS research initiative.

3. CURRENT STATUS OF BRs IN AUSTRIA:

Since 2014 and in full accordance with the MAB Programme's "Process of excellence and enhancement of the World Network of Biosphere Reserves (WNBR) as well as quality improvement of all members of the WNBR, Austria has reduced the number of its BRs from seven to three. In 2019, the Styrian region "Unteres Murtal" became the fourth BR. The current sites are very well functioning BRs with a wide range of scientific and educational activities.

Approved: four sites	
<i>Großes Walsertal (approved 2000)</i>	The steep-side V-shaped valley, situated in Western Austrian, has very little valley floor and from a geological point of view is divided in two: the northern part is characterized by the soft, green mountains of the Flysch, the southern part by the wildly romantic, craggy peaks and scree of the high limestone Alps. Since livestock farming was the main source of livelihood for centuries, meadows and pastures dominate the landscape of the BR. Due to the traditional hay harvest, the meadows in the region are the most colourful and species-richest in the country. In 2011 the International Advisory Committee for BRs recommended that the site is considered as a model site, whose practices should be shared within the WNBR.
<i>Wienerwald (approved 2005)</i>	The Vienna Woods are the largest contiguous area of deciduous woodland in Central Europe. The area is situated in close vicinity to the city of Vienna. The location of such a large area of woodland on the outskirts of a major city is unique.
<i>Salzburger Lungau und Kärntner Nockberge (approved 2012)</i>	The area consists of a representative example of inner-alpine landscapes with high mountains and deep valleys. The region is a cultural landscape far removed from large conurbations and major traffic routes. A large part of the agricultural land consists of alpine meadows and pastures, and the food specialties of the region – most of them organic and based on local bio-cultural diversity – are of a high quality.
<i>Unteres Murtal (approved 2019)</i>	The BR is a representative example of a continental lowland floodplain with a rich biodiversity of European significance and comprises the second largest riparian forests in Austria. The BR is the nearly identical reflection of the directly adjacent BR in Slovenia, as the Mura River forms the common border and a length of almost 40 km. The scenic Mura Valley is characterised by a mosaic of outstanding habitats and land use systems. The hydrologic preconditions near the river lead to various forms of valuable inland freshwater types, riparian forests, wetlands, and grasslands. Since 2021, the BR "Unteres Murtal" is part of the the world's first transboundary BR consisting of five countries (TBR MDD).

At present, two Austrian regions (a mountain area bordering the Federal Provinces of Upper Austria and Styria; Kamptal Valley in the Federal Province of Lower Austria) are discussing chances and options of the BR status for their communities.

4. MAB ACTIVITIES IN AUSTRIA:

In the past three years, the Covid pandemic has prevented or at least impaired many projects and activities in Austrian BRs. However, since a few months the BR managements can work again with full power and on a high level. At this point, however, only two selected activities are to be mentioned.

EuroMAB Conference 2022: "Tying cultures. Crossborder cooperation between societies and generations"

The conference of the UNESCO-EuroMAB regional network was held 12 – 16 September 2022 in Bad Kleinkirchheim, in the Carinthian part of the BR "Salzburger Lungau und Kärntner Nockberge" in Austria. Austria is thus the first country to host two EuroMAB meetings (the first was held in 2005, in the Wienerwald BR).

The EuroMAB 2022 Conference, originally planned for 2021 but postponed due to the Covid pandemic, gathered together around 150 delegates from 27 countries. Under the theme „Tying cultures. Crossborder

cooperation between societies and generations“, the topics discussed by conference participants in a plenary session and 14 workshops included how cooperation and communication in and between BRs, various stakeholders and institutions can be improved across national, generational and societal borders.

The conference started with a public plenary session with two keynote speeches and a round table on the conference theme. The first keynote speaker, Valentin Inzko, a native Carinthian Slovene and former High Representative for Bosnia and Herzegovina, explained that the location of the Nockberge mountains in southern Austria, close to the border with Slovenia and the Italian region of Friuli Venezia Giulia, has enabled a vibrant cultural exchange between the ethnic groups and regions over many centuries. The parties involved continue to expand and deepen these exchanges.

The second keynote speaker, Gordana Beltram, from the Slovenian Ministry of Environment and Spatial Planning, used the example of the five-country, transboundary Mura-Drava-Danube BR (TBR MDD) to show how intensive cooperation in the nature conservation sector across state borders can also overcome decades of political disputes. Drawing on their extensive experience of cross-border cultural relations, the two keynotes showed that the Nockberge region offers the perfect setting for the conference theme, namely the discussion of challenges and opportunities of cross-border cooperation between societies and generations.



Conference participants enjoying the "on top of the mountain" social evening, © Nockberge Management

The keynote speeches were followed by a round table discussion on "Cross-border cooperation: challenges and best practice examples", with representatives of the Triglav National Park (Slovenia), the Julian Alps Biosphere Reserve (Italy), the UNESCO Karawanken/Karavanke Geopark (transboundary between Austria and Slovenia), and the Nockberge region (Austria). Furthermore, the plenary session included the presentation of the international cooperation project "Transdisciplinary Education Collaboration for Transformations in Sustainability" (TRANSECTS).

The plenary event also marked the 50th anniversary of the founding of the Austrian MAB National Committee in a round table discussion on the Committee's past and future work.

A key element of EuroMAB conference were of course the 14 workshops, in which current important topics for BRs are discussed. Participants were particularly keen on the new workshop concept (a combination of field trip and workshop) devised by the organizers, which encouraged them to leave the conference rooms and interact directly with the region and its inhabitants. The workshops generated excellent ideas, approaches to solutions and future actions, but also identified future challenges. The reports of the workshop chairs, most of which include the presentations given in the workshops, can be downloaded from the conference homepage. The organizers are also preparing a comprehensive conference report, which will be published on the conference homepage in the near future.

Conference webpage: <http://www.euromab2022.at>

A large poster exhibition, which could be visited throughout the conference, offered representatives the opportunity to present their BRs and to share their scientific work and other projects.



Workshop participants are „Crazy about Tomorrow“, © Nockberge Management



Participants of the workshop „Status of Mountain Biosphere Reserves“, © Nockberge Management

It was important to the organizers to include people and businesses from the surrounding region as well as BRs from neighbouring countries, with whom the Nockberge Management has been cooperating closely for many years. For example, a group of about 30 representatives from the Triglav National Park and the Julian Alps BR (Slovenia) participated in the opening plenary event.

It was also important for the organizing team to give young people a voice, a key concern of the UNESCO-MAB Programme. For the first time at a EuroMAB conference, a separate Youth Programme was therefore organized. Nine young adults from eight countries were able to participate in this international conference without any costs and to contribute with their creative ideas regarding BRs. The aim of this particular event was for more experienced colleagues and young people together to develop ideas, visions and possibilities for how young people can be meaningfully involved and engaged in the development of BRs. The last day of the conference gave these younger participants the possibility to present their concrete ideas and results to the plenary. They also presented a "CALL 4 ACTION to UNESCO", for the active and meaningful involvement of teenagers and young adults in BRs, including in decision-making processes. In order to support the message of this "Call 4 Action" and as a sign of appreciation for the work of the youth group, the Call was signed by all conference attendees. The Call is part of the 44-page report on the youth programme, which can also be downloaded from the conference homepage.



Conference participants sign the youth programme's „Call4Action“. © Nockberge Management

In summary, this year's EuroMAB conference was a great success. The efforts to organize an environmentally friendly and resource-saving event with short walking distances were successful, as were the measures taken to make the conference affordable for practically all people interested in participating. Both the participants and the moderators of the workshops were very positive about the new workshop format devised by the organizers. The organizers' concern to give young people a voice was also realized. The successful youth programme demonstrated the importance of meaningful participation by young people in the decision-making processes of BRs, and of inter-generational collaboration for learning from each other mutually. The results of the youth workshop were remarkable and extremely helpful: they will inform future work of the MAB programme and its BRs.

Meeting of the Technical Secretariats of the "World Network of Mountain Biosphere Reserves" (WNMBR)

The first Face-to-Face Meeting of the Technical Secretariats of the "World Network of Mountain Biosphere Reserves" (WNMBR) took place in the Spanish Biosphere Reserve "Omaña y Luna" from March 7 - 19, 2022. The network's technical secretariat is shared by the Valles de Omaña y Luna Biosphere Reserve and the Research Centre for Eco-Environmental Sciences of the Chinese Academy of Sciences. As an Austrian biosphere reserve expert, Günter Köck participated in this meeting and contributed the expertise of the Austrian MAB Committee as well as the Austrian Mountain BRs.



Conference participants of touring the beautiful region of BR "Omaña y Luna", © Alipio Muñiz de Gorostiza

The successful meeting was very constructive. Among other things, a work plan for the next two years was developed with a focus on addressing global issues such as biodiversity loss and climate change to support the implementation of the „UN 2030 Agenda for Sustainable Development“. Addressing these significant global issues increasingly requires building bridges between policy, scientific research, and indigenous and local knowledge.

Information about the meeting: <https://www.mountainbiosphere.org/en/mountain-biosphere-reserves-in-a-new-era-for-resilient-socio-ecological-systems/>

Detailed information about the WNMBR: <https://www.mountainbiosphere.org/en/>

5. PUBLICATIONS:

The research projects funded by the MAB National Committee yield not only a series of research reports but also a range of research articles in scientific journals. Based on a successful cooperation with the Austrian Academy of Sciences Press (AASP) almost all Austrian MAB project reports will be published online at the AASP homepage. At present, some 38 documents are ready for download from <http://epub.oeaw.ac.at/Projektberichte> or via the MAB-Austria website <http://www.biosphaerenparks.at/>.

Project reports:

Erhalt der biologischen und kulturellen Vielfalt. Modelle für nachhaltige Entwicklungsstrategien im 21. Jahrhundert. Orte der Forschung, Bildung und Umweltbeobachtung (doi: 10.1553/ibk; ISBN-13: 978-3-7001-3742-9)

Biosphere Reserves in Austria - Grundlagenerhebung und Stand der Forschung (ISBN-13 Online: 978-3-7001-3599-9)

Nachhaltiges Waldbiomassenmanagement im Biosphärenpark Wienerwald (doi: 10.1553/wald, ISBN-13: 978-3-7001-3839-6, ISBN-13 Online: 978-3-7001-3839-6)

EUROMAB AUSTRIA 2005 Meeting of the Euromab Biosphere Reserve Coordinators and Managers (doi: 10.1553/euromab_austria2005, ISBN-13 Online: 978-3-7001-3715-3)

Leben in Vielfalt (doi: 10.1553/3-7001-3337-5; ISBN-13: 978-3-7001-3337-7 ISBN-13 Online: 978-3-7001-3374-2)

Inspired by diversity (ISBN-13: 978-3-7001-3596-8 ISBN-13 Online: 978-3-7001-3612-5)

Leitfaden für Forschung und Monitoring im Biosphärenpark Wienerwald (doi: 10.1553/lfmbw, ISBN 978-3-7001-3742-9)

Leitfaden für Forschung und Monitoring im Biosphärenpark Großes Walsertal (doi: 10.1553/lfmbgw, ISBN-13: 978-3-7001-3717-7)

Re-designing the Research Agenda of MAB-Austria, in special consideration of BRIM: A Feasibility Study Final Report (doi: 10.1553/rra_mab)

Monitoring von Luftschadstoffen (NO_x und SO₂, Schwermetall-, Stickstoff-, Schwefel- und PAH-Depositionen) mittels Moosen im "Biosphärenpark Wienerwald" (doi: 10.1553/luft, ISBN-13: 978-3-7001-3852-5, ISBN-13 Online: 978-3-7001-3852-5)

Integrated Sustainable Wildlife Management in the Biosphere Reserve Wienerwald (doi: 10.1553/ISWIMAB, ISBN-13 Online: 978-3-7001-6626-9)

Redesigning the Biosphere Reserve NeusiedlerSee (doi: 10.1553/rbrns, ISBN-13: 978-3-7001-6692-4, ISBN-13 Online: 978-3-7001-6692-4)

Ökologische und soziale Tragfähigkeiten als Managementherausforderungen für suburbane Biosphärenparke am Beispiel Untere Lobau (doi: 10.1553/MAB-OEST, ISBN-13 Online: 978-3-7001-6781-5)

Part_b: Partizipationsprozesse in Biosphärenparks – Interventionstheorie, Strategie-analyse und Prozessethik am Beispiel vom Biosphärenpark Wienerwald, Großes Walsertal und Nationalpark Nockberge (doi: 10.1553/mab-partB, ISBN-13 Online: 978-3-7001-6870-6)

Transboundary Information Exchange for Revision and Functional Improvement of Zonation of the Lower Morava Biosphere Reserve (Czech Republic) (doi: 10.1553/mab-tierafiz-lmbr-2010, ISBN-13: 978-3-7001-7025-9, ISBN-13 Online: 978-3-7001-7025-9)

Evaluating the zonation for the Biosphere Reserve Wienerwald: How well does the conversation zone contribute to biodiversity conservation? (doi: 10.1553/mab_biosphere_wienerwald, ISBN-13 Online: 978-3-7001-8136-1)

CheckKid - Kids entdecken die Kernzone (doi: 10.1553/Checkid2010, ISBN-13 Online: 978-3-7001-7038-9)

Geophysikalische Messungen in Tulum (Mexiko) - 2010 (doi: 10.1553/mab-geophys-tulum-2010, ISBN-13: 978-3-7001-6971-0 ISBN-13 Online: 978-3-7001-6971-0)

Biokulturelle Vielfalt: Biokulturelle Vielfalt – Vom lokalen Erfahrungswissen zu Pflanzen im Biosphärenpark Großes Walsertal (doi: 10.1553/MAB-MOBDIBRGW; ISBN-13 Online: 978-3-7001-7347-2)

Perspective Lobau 2020: Exploring management options of a heavily used urban biosphere reserve confronted with new urban developments in its neighbourhood considering a restricted potential for ecosystem development (doi: 10.1553/Lobau2020, ISBN-13 Online: 978-3-7001-7288-8)

Biodiversity and Ecosystem Services as scientific foundation for the sustainable implementation of the Redesigned Biosphere Reserve "Neusiedler See" (doi:10.1553/bioserv-neusiedler-see, ISBN-13 Online: 978-3-7001-7289-5)

Integrative Sustainable Wildlife Management - Principles, Criteria and Indicators for Hunting, Forestry, Agriculture, Recreation (doi: 10.1553/ISWIMAN, ISBN-13 Online: 978-3-7001-7216-1)

IESP - Towards Integrated Ecological Spatial Planning for the Wienerwald Biosphere Reserve (doi: 10.1553/IESP-Wienerwald, ISBN-13 Online: 978-3-7001-7292-5)

Biosphärenpark School-Twinning (doi: 10.1553/MAB-BST, ISBN-13 Online: 978-3-7001-7691-6)

Reservas de la Biosfera de Chile Laboratorios para la Sustentabilidad (doi: 10.1553/ReservasBiosferas1, ISBN-13 Online: 978-3-7001-7624-4)

Biosphere Reserve Integrated Monitoring – Salzburger Lungau & Kärntner Nockberge (doi: 10.1553/MAB-BRIM, ISBN-13 Online: 978-3-7001-7753-1)

REPANext - Regional Economic and Perceptual Analyses in an UNESCO Biosphere Reserve. Future strategies for regional development in the BR Großes Walsertal against the background of demographic change: What comes next? (doi:10.1553/MAB-REPA-Next, ISBN Online 978-3-7001-7992-4)

Biosphere People - Local residents' views on the Wienerwald Biosphere Reserve (doi: 10.1553/mab_biospherepeople, ISBN Online 978-3-7001-8083-8)

HealthSpaces - Biosphere Reserve Landscapes and Human Health Benefits: Analysing the Potential of the Biosphere reserve Wienerwald on life quality and psychological well-being (doi: 10.1553/mab_healthspaces, ISBN Online 978-3-7001-8056-2)

Healthy Alps - Alpine landscapes under global change: Impacts of land-use change on regulating ecosystem services, biodiversity, human health and well-being (doi: 10.1553/ESS-HEALTHY-ALPS, ISBN-13 Online 978-3-7001-8460-7)

SamoMAB – Samothraki as a Biosphere Reserve (doi: 10.1553/SamoMAB, ISBN-13 Online 978-3-7001-8498-0)

BRIMSEN - Biosphere Reserve Integrated Monitoring based on Social and Environmental ecosystem services (doi: 10.1553/MAB-BRIMSEN, ISBN-13 Online: 978-3-7001-8617-5)

AkIdEn - Akzeptanz, Identifikation und Engagement: Ansichten und Mitwirkung der Bevölkerung in UNESCO Biosphärenreservaten (doi: 10.1553/MAB-AkIdEn, ISBN-13 Online: 978-3-7001-8476-8)

ENESUS – Experimental Networks for Sustainability (doi: 10.1553/MAB-ENESUS, ISBN-13 Online: 978-3-7001-8362-4)

BIOAY - Diez años de la reserva de biosfera Oxapampa – Asháninka – Yánesha (doi: 10.1553/BIOAYMAB, ISBN-13 Online: 978-3-7001-8507-9)

BIOAY - Diez años de la reserva de biosfera Oxapampa – Asháninka – Yánesha 2. Auflage/ Second Edition (doi: 10.1553/BIOAYMAB, ISBN-13: 978-3-7001-8942-8 ISBN-13 Online: 978-3-7001-8943-5)

DivRESTORE - Transforming grasslands to achieve insect diversity restorative goals and human well-being (ISBN-13 Online: 978-3-7001-9204-6)

CRAFT - Creative Approaches for socio-ecological transitions (doi: 10.1553/MAB-CRAFT, ISBN-13 Online: 978-3-7001-9308-1)

List of selected articles in books, scientific journals and conference/workshop papers:

Baumgartner, J., Kuntner, E., Melchert, J., Misera, J., Sauerwein-Schlosser, C., Schleyer, C., Unthan, N. (2023). Biosphere Reserves as drivers of regional governance? Communication challenges within the UNESCO Biosphere Reserves Engiadina Val Müstair (Switzerland) and Schwäbische Alb (Germany). *eco.mont - Journal on Protected Mountain Areas Research* 15(1), 4- 10. [Link](#)

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Köck, G., Broucke, G., Gómez Durán, F. (2022). Report on the Southern African Mountain Conference 2022, Southern African mountains – their value and vulnerabilities. *eco.mont - Journal on Protected Mountain Areas Research* 14 (2), p. 78. [Link](#)

Lechner, M, Dostalova, A, Hollaus, M, Atzberger, C, Immitzer, M. (2022). Combination of Sentinel-1 and Sentinel-2 Data for Tree Species Classification in a Central European Biosphere Reserve, REMOTE SENS-BASEL. 2022; 14(11), 2687. [Link](#)

Vienna, 20/04/2023 (G. Köck)