

Table of Contents

| | |
|--|----|
| ABDERHALDEN A., HALLER R., SCHEURER T.: Establishing ecological networks in the Central Alps – ECONNECT's pilot region Inn – Etsch | 13 |
| ARNBERGER A., EDER R., FREY-ROOS F., NOPP-MAYR U., TOMEK H., MURALT G., ZOHMANN M.: The "Untere Lobau" Biosphere Reserve – The management challenge between urban recreation demands and nature conservation | 17 |
| BAUCH K., LIEB S., JUNGMEIER M.: A Research Programme for the Hohe Tauern National Park | 21 |
| BEHNEN T.: The Role of Regional Identity in Protected Areas: the Biosphere Reserve Rhön (Germany) as Benchmark | 25 |
| BOCCA M., CAPRIO E., ROLANDO A., BICH C.: A multi-year survey of the Black Grouse <i>Tetrao tetrix</i> in the Mont Avic Natural Park (Aosta Valley, Italy) | 29 |
| BOHNER A., HABELER H., STARLINGER F., SUANJAK M.: Biodiversity on avalanche tracks, a case study in the national park "Gesäuse" (Styria, Austria) | 31 |
| BORSDORF F. F.: Biosphere Reserves as stimuli for participatory local governance? Conceptual frame and initial results of a research project | 35 |
| BRANDENBURG C., LEXER W., REIMOSER F., ZINK R., HECKL F., BARTEL A., MUHAR A., TOMEK H.: Participative research to develop integrated approaches for a sustainable wildlife management in the Biosphere Reserve Wienerwald | 39 |
| BRANG P., HALLENBARTER D., ROHRER L., COMMARMOT B., HEIRI C., BUGMANN H.: Insights from 50 years of research in natural forest dynamics in Switzerland | 41 |
| BRANG P., ROHRER L., COMMARMOT B., TINNER R., BUGMANN H.: Monitoring approach for forest reserves in Switzerland | 45 |
| BRAUN F., MUHAR A., FIEBIG M.: Scenarios for adapting the high Alpine trail network to landscape modifications due to climate change | 49 |
| CARRIVICK J. L., WARBURTON J., DICKSON N. L., BROWN L. E.: Spatial and Temporal Changes in the Morphology of an Alpine Braidplain Characterised by High Resolution Digital Survey | 53 |
| CARVER S., FRITZ S.: Multi-scale modelling of spatial variations in perceived wildness in the Hohe Tauern and Cairngorm National Parks | 55 |
| CHERIX D., BERNASCONI C., PAMILO P., FREITAG A.: Protected areas: reservoir of cryptic biodiversity | 57 |
| CHIARI S., MUHAR S., MUHAR A.: The attraction of rivers in protected areas for people in search of recreation | 61 |
| DANIELLI G.: Promotion of Nature Tourism in protected area in southern Val d'Hérens (Switzerland) | 65 |

| | |
|--|-----|
| DICKSON N. E., BROWN L. E., FÜREDER L., CARRIVICK J., WARBURTON J.: Spatio-Temporal Dynamics of the Odenwinkelkees Glacier Proglacial River Ecosystem | 69 |
| DUSCHER A., REIMOSER F., LAINER F.: Habitat use and activity patterns of red deer (<i>Cervus elaphus</i>) – consequences for Wildlife Ecological Spatial Planning (WESP) in the national park "Hohe Tauern", Austria | 71 |
| DUSCHER A., FILLI F., LAINER F.: Impact of supplementary feeding on winter home range size and activity patterns of female red deer (<i>Cervus elaphus</i>) in alpine regions | 73 |
| DUSCHER A., REIMOSER F., LAINER F.: Managing red deer populations according to the IUCN requirements in the National Park Hohe Tauern, Austria | 77 |
| EBOHON B., KELLER F., SCHROTT L., OTTO J.-C.: Modelling of permafrost in the region of the "Hohe Tauern", Austria | 81 |
| EFFENBERGER C., RAMIREZ C., KOLLER M. W., KRANABETTER A., KAISER A., SCHAUER G., KAPSER-GIEBL A.: The lab above the clouds – Aerosol chemistry at the Sonnblick Observatory | 85 |
| FILLI F.: The role of protected areas in ungulate research | 87 |
| FRASSY F., MORRA DI CELLA U., BOCCA M., BOVIO M.: Habitat cartography using color infrared and hyperspectral images | 89 |
| FÜREDER L.: Species traits in the alpine stream fauna: a promising tool for freshwater monitoring | 93 |
| GEILHAUSEN M., OTTO J.-C., SCHROTT L.: Sediment budgets for two glacier forefields (Pasterze & Obersulzbachkees, Hohe Tauern, Austria) – conceptual approach & first results | 97 |
| GIMMI U., GAFVERT U., RADELOFF V. C.: Decreasing effectiveness of protected areas due to increasing development in the surroundings of U.S. National Park Service holdings after park establishment | 103 |
| GRASSER S., SCHUNKO C., VOGL C. R., VOGL-LUKASSER B.: Biocultural Diversity Monitoring – The use and management of biodiversity of wild gathered plant species in the Biosphere Reserve Großes Walsertal (Vorarlberg, Austria) | 105 |
| GREBMAN G., FILLI F., CAMPELL S., DUSCHER A., REIMOSER F., LAINER F., EISANK K.: Markus and Steff – Ibex Research in the Hohe Tauern National Park and the Swiss National Park | 111 |
| GUTH M.-O., KOHLER Y., PLASSMANN G., SCHEURER T.: No sustainable conservation of biodiversity without connectivity – Establishing Ecological Networks throughout the Alps | 113 |
| HARDENBERG, GRAF VON, W.: Between propaganda and preservation: The Italian National Parks in the Alps | 119 |
| HENNIG S., HÖRMANSEDER K., WALLENTIN G.: Nature-SDIplus: Nature Conservation Data through User's Eyes | 123 |

| | |
|--|-----|
| HEPNER M., MILASOWSKY N., WEIGAND E.: The epigeic spider fauna of one subalpine Swiss mountain pine – European larch – Norway spruce stand, and two burnt sites in the Nationalpark Kalkalpen (Austria) | 127 |
| HEUBERGER R.: Management of natural parks in Carinthia Discover the regions' protected areas | 129 |
| HOFFERT H., KREINER D., AUER J.: Remote Sensing in Protected Areas: Practical Experiences in Charting Natura 2000-Habitats, Detecting Changes in Landscape and Monitoring | 131 |
| HUEMER P.: Biodiversity of butterflies and moths in the National Park Hohe Tauern | 135 |
| JUNGMEIER M., PAUL-HORN I., ZOLLNER D., BORSDORF F., GRASENICK K., LANGE S., REUTZ-HORNSTEINER B.: Participation Process in Biosphere Reserves – Development of an Intervention. Theory, Analysis of Strategies and Procedural Ethics by example of BRs Nockberge, Vienna Forest and Großes Walsertal (Austria) | 137 |
| KAISSER A., SCHEIFINGER H.: Trends of air pollutants at the Sonnblick Observatory, National Park "Hohe Tauern" | 141 |
| KAUFMANN V., KELLERER-PIRKLBAUER A., KENYI L. W.: Satellite-based measurements of the surface displacement of the largest glacier in Austria | 145 |
| KELLERER-PIRKLBAUER A., DRESCHER-SCHNEIDER R.: Glacier fluctuation and vegetation history during the Holocene at the largest glacier of the Eastern Alps (Pasterze Glacier, Austria): New insights based on recent peat findings | 151 |
| KELLERER-PIRKLBAUER A., AVIAN M., LIEB G. K., KAUFMANN V.: The project "ALPCHANGE – Climate Change and Impacts in Southern Austrian Alpine Regions" with research results from the study area Schober Mountains, Hohe Tauern Range | 157 |
| KELLERER-PIRKLBAUER A.: The use of GPS and DGPS for glacier monitoring at the tongue of Pasterze Glacier between 2003 and 2008 | 163 |
| KELLERER-PIRKLBAUER A., CREMONESI E., DALL'AMICO M., DELINE P., GALUPPO A., GRUBER S., KRYSIECKI J.-M., LIEB G. K., MAIR V., MAUKISCH M., MORRA DI CELLA U., POGLIOTTI P., VON POSCHINGER A., RAVANEL L., RIEDL C., SCHOENEICH P., SCHÖNER W., SEPPI R., STAUDINGER M., ZAMPEDRI G.: Towards assessing thermal and dynamic reaction scenarios of different permafrost sites in the European Alps: One action within the PermaNET project | 169 |
| KERN K., LIEB G. K., SULZER W.: Detection of land-use/land-cover change in the Hohe Tauern National Park using an object-oriented classification approach | 175 |
| KEUSCH C., KIRCHMEIR H., JUNGMEIER M.: Terrestrial habitat-mapping within the Hohe Tauern National Park – methods and results | 177 |
| KOLLER M. W., EFFENBERGER C., SCHAUER G., KASPER-GIEBL A.: The lab above the clouds – Particle Number Concentrations at the Sonnblick Observatory | 183 |
| KOMPOSCH C.: Eastern Alpine endemic arachnids (Arachnida: Araneae, Opiliones) | 185 |
| KUPPER P.: A Transnational History of Alpine National Parks: Introductory Remarks | 187 |

| | |
|---|-----|
| KUPPER P.: A Commonwealth of Alpine Nature: The Swiss National Park | 189 |
| LANGE S.: Transboundary Cooperation in Protected Area's Management – Factors Influencing Success or Failure | 193 |
| LECCIA M.-F., CANAVESE G., COMMENVILLE P., DE BIAGGI M., EYMANN J., GARGOMINY O., GIRAUDO L., HÄUSER C. L., KROGMANN L., KROUPA A., MONJE J. C., ROSSI P., STLOUKAL E., TURPAUD A.: A new All Taxa Biodiversity Inventory and Monitoring (ATBI+M) approach for improving biodiversity knowledge and data management for protected areas | 197 |
| LENG M., HAMMER T.: Moorland landscapes in Switzerland – the changing significance of near-natural cultural landscapes | 203 |
| LINDNER R., GROS P., MEDICUS C.: Building an Inventory of Life: The Biodiversity Archives of the Nationalpark Hohe Tauern at the Haus der Natur, Salzburg | 205 |
| MANEA G., MATEI E.: The benefits of the past projects aiming on conservation and the habitats' management in the Iron Gate Natural Park, for 10 years of existence | 211 |
| MAUZ I.: Historical elements on national parks and scientific research in the French Alps | 215 |
| MEDGYESY N., LACKNER R., PELSTER B.: The Resettlement of Brown Trout in Alpine Streams of the National Park Hohe Tauern | 219 |
| MORI N., OZ B., BRANCEJ A.: Ecological classification of water systems in the Julian Alps and Karavanke belt (Slovenia) using spring biota | 223 |
| MORRA DI CELLA U., BOCCA M., BUSETTO L., COLOMBO R., CREMONESE E., DELESTRADE A., GALVAGNO M., LOISON A., LOPEZ J.F., MERONI M., MIGLIAVACCA M., TUTINO S., YOCOZ N.G.: PHENOALP: a new project on phenology in the Western Alps | 225 |
| MOSE I.: Perception and acceptance – key factors for participatory planning of protected areas in Europe | 229 |
| NUTZ M., KLIPP M., SCHARDT M., PAULI H.: Detection and monitoring of vegetation patterns and borderlines in high mountain environments by using combined terrestrial and remote sensing methods in the Hohe Tauern National Park | 233 |
| NUTZ M., AVIAN M., KELLERER-PIRKLBAUER A.: Surface characteristics of alpine cirques and valley heads in Central Austria with respect to permafrost distribution | 237 |
| OPP C., BILD C.: Tourism in protected areas: potential or risk? A case study from the World Heritage Area Lake Baikal | 243 |
| PARKYN M., RITCHIE C.: Celebrating 100 Years of National parks in Europe | 245 |
| PASCHE A., CHERIX D., CHITTARO Y., GONSETH Y.: The importance of long term monitoring in protected areas: The case of butterflies in the Swiss National Park | 247 |
| PEER T., GRUBER J. P., TSCHAIKNER A., TÜRK R.: Alpine soil crusts, the biocoenosis which braves the cold | 249 |

| | |
|---|-----|
| PFEIFER J., HENNIG S., OPP C.: Visitor nodes: A customizable instrument in visitor management | 253 |
| PONCET A., VOGL C. R., WECKERLE C.: Local plant knowledge of farmers' families in the Napf-region, Switzerland | 257 |
| RAGGER C.: On the trail of gallinaceans in the Hohe Tauern National Park | 263 |
| RANDIER C.: No sustainable conservation of biodiversity without connectivity. ECONNECT as a project also aims at analysing the legal barriers and opportunities of the law for the creation of ecological networks across the Alps | 267 |
| REIMOSER F., LEXER W., BRANDENBURG C., ZINK R., HECKL F., BARTE A., FERNER B., MUHAR A., KOCH G.: Integrated Sustainable Wildlife Management in the Biosphere Reserve Wienerwald – the step from sector-specific to cross-sectoral sustainability | 269 |
| REUTZ-HORNSTEINER B.: How can PAs offer local people a chance to participate and benefit? PA Management and participation as key factors for the acceptance and the sustainable implementation of the "PA idea" in different categories of PAs | 275 |
| ROMERO H., MENDONÇA M.: Contradictions and complementarities between nature conservation and economic development in Chilean Patagonia | 279 |
| ROSSET V.: Local biodiversity should increase with climate change: case-study for ponds from the Swiss National Park | 283 |
| SCHWARZENBACHER W., REINTHALER U., MEIKL M., BAUCH K., BERNINGER U., ZOBL E., WOPFNER N., SCHWARZENBACHER R.: The Alpine Salamander | 287 |
| STAUDINGER M.: Research activities at the Sonnblick Observatory – overview of the results of more than 40 projects | 289 |
| STERL P., EDER R., ALLEX B., ARNBERGER A.: Winter visitors' acceptance of the visitor management concept of the Gesäuse National Park | 291 |
| STOCKER-WALDHUBER M., FISCHER A., LANG J., GATTERMAYR W., JURGEIT F.: Monitoring of glacier mass balance on Mullwitzkees Hohe Tauern | 295 |
| STRASSER U.: Climate Change Effects on the Alpine Snow Cover | 299 |
| TAUCHER W., KELLERER-PIKLBAUER A., LIEB G. K., AVIAN M.: Climate change in alpine areas in central Austria between 1961 and 2006 | 305 |
| TEMPERLI C.: The last 125 years in the Josenwald. Formerly exploited, today forest reserve | 311 |
| TURLOT A., RONDIA P., STILMANT D., BARTIAUX-THILL N.: Natural environments management: which sustainability for Walloon agriculture? | 313 |
| VERT C.: The Evolution of the Planning of National Parks and Protected Areas in Romania | 315 |
| VILSMAIER U.: Conceptualizing protected area research in a transdisciplinary mode | 317 |

| | |
|--|-----|
| VOGL C. R., VOGL-LUKASSER B., GRASSER S.: Local knowledge in National Park Hohe Tauern and adjacent areas in Eastern Tyrol (Austria) about wild gathered plant species for phytotherapy as a basis for organic animal husbandry | 321 |
| VOGL-LUKASSER B., VOGL C. R., BLAUENSTEINER P.: The link between protected areas and agrobiodiversity conservation – The case of traditional crops and their local varieties in National Park Hohe Tauern and adjacent areas in Easter Tyrol | 325 |
| VUILLEMOZ E., LAMI A., TARTARI G., SCHOMMER B., TOFFOLON R., BONASONI P.: SHARE – Stations at High Altitude for Research in the Environment – an integrated project for monitoring and environmental research in mountain regions | 329 |
| WALLNER A., SCHÜPBACH U., WIESMANN U.: Managing a World Heritage Site – Potentials and limitations of Transdisciplinary Approaches | 333 |
| WERNLI M., SIEGRIST D., RUPF R., CLIVAZ C., RINKEL A., MANZ M., STUMM N.: VISIMAN. Development of a Flexible Visitor Management Tool for National Parks and Regional Natural Parks | 337 |
| WIRTH V., PRÖBSTL U., HAIDER W.: Destination choice in alpine summer tourism: heterogeneity of preferences and the role of protected areas | 341 |
| WÜRFLINGER R.: The idea of German-Austrian Alpine National Parks – Motives and Settings | 345 |
| ZECHNER L., HAMMER K., HIRSCHENHAUSER K., PFEIFER M. GRÜNSCHACHNER-BERGER V.: Census and monitoring of bird species in the National Park Gesäuse, Austria | 349 |
| ZIBRAT U., BRANCEJ A.: Can earthquakes change plankton communities? | 353 |
| ZIENER K., Puskás L.: Redesigning of Biosphere Reserves in the Lake Neusiedl/Fertö Region – the view of stakeholders | 355 |
| Appendix | |
| Guidelines for the Authors | 359 |