

Curriculum vitae

Erich Ignaz Tasser

OFFICE

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1 SCHOOL AND UNIVERSITY EDUCATION

- 1983-1988: Grammar school 'Humanistisches Lyzeum Vinzentinum' in Brixen
- 1988-1994: Study of terrestrial ecology and limnology at the Leopold-Franzens-University of Innsbruck (Austria).
- 1992-1994: Diploma thesis within the framework of EU- STEP- project INTEGRALP on the effect of land-use changes on the vegetation and plant ecophysiology.
- 1995-2000: Ph.D. in Natural Sciences; thesis on: "Landscape Modelling in the Alpine Region with regard to the Effects of Land-Use Changes"
- 2009: 'Venia Docendi' for ecology, thesis on: „Ecological Effects of Land-use Changes: from Ecosystem to Landscape“

2 POSITIONS HELD

- Jan. -April 1992: Practical training within the framework of EU-SOKRATES at the Funivie Monte Bondone (Trento, Italy), studying the ecological effects of snow preparing and artificial snowmaking in the skiing area of Monte Bondone.
- June - Jan. 1994: Scientific assistant at the Institute of Botany / Department of Ecology at the Leopold-Franzens-University of Innsbruck (A).
- Feb. - Sept. 1995: Personnel exchange in the COMMETT-II Be94/1/8227 programme entitled "Know-How Transfer Universität - Wirtschaft - Verwaltung zur Ökologie des Alpenen Raumes" from the Institute of Botany at the

European Academy Bozen/Bolzano (I), concerning the topic "Applied Education on Environment Impact Assessment".

Since 1995: Collaboration in the Scientific area of "Alpine Environment" at the European Academy Bozen/Bolzano (I) with the main research interests mountain agriculture, sustainable development in mountain areas and landscape planning.

Since 1996: Teaching at the University of Innsbruck with the main topics land use and vegetation distribution, erosion, GIS and landscape modelling.

3 MAIN RESEARCH AREAS

Systems ecology and landscape ecology of mountain ecosystems, field experiments and process analysis on various temporal and spatial scales, development and implementation of GIS and statistical models and scenario techniques, landscape modelling, mountain agriculture, sustainable development in mountain areas. Research on the ecological effects of land-use changes in mountain regions with special regard to biodiversity, vegetation changes, potential risks, water and carbon cycle, and multiple ecosystem services and incorporating links to socioeconomic research, nature conservation.

4 PUBLICATION ACTIVITIES

80 papers in peer reviewed journals and books, 15 monographs, 80 papers in national and international journals, non peer reviewed, more than 100 popular scientific articles

Recent publications (last 5 years):

- Rüdisser, J., Tasser, E., Tappeiner, U. (2012) Distance to nature - a new biodiversity relevant environmental indicator set at the landscape level. *Ecological Indicators* 15/1, 208-216.
- Schreiner, K., Pecher, C., Schermer, M., Siegl, G., Tappeiner, U., Tasser, E. (2011) KULAWI - Strategies for the cultural landscape of the future. *Ekológia (Bratislava)* 30 (2), 133-140.
- Schirpke, U., Leitinger, G., Tappeiner, U., Tasser, E. (2012) SPA-LUCC: Developing land use/cover scenarios in mountain landscapes. *Ecological Informatics* 12, 68-76.
- Schirpke, U., Hölzler, S., Georg, L., Bacher, M., Tappeiner, U., Tasser, E. (2013) Can we model the scenic beauty of an Alpine landscape? *Sustainability* 5(3), 1080-1094.
- Schirpke, U., Tasser, E., Tappeiner, U. (2013) Predicting scenic beauty of mountain regions. *Landscape and Urban Planning* 111, 1-12.
- Schirpke, U., Leitinger, G., Tasser, E., Schermer, M., Steinbacher, M., Tappeiner, U. (2013) Multiple ecosystem services of a changing Alpine landscape: past, present and future. *International Journal of Biodiversity Science, Ecosystem Services & Management* 9/2: 123-135. DOI:10.1080/21513732.2012.751936.
- Fontana, V., Radtke, A., Bossi Fedrigotti, V., Tappeiner, U., Tasser, E., Zerbe, S., Buchholz, T. (2013) Comparing land-use alternatives: Using the ecosystem services concept to define a multi-criteria decision analysis. *Ecological Economics* 93, 128-136.
- Tasser, E. (2013) Geschichte trifft Zukunft oder das Projekt „Kultur.Land.(Wirt)schaft-Strategien für eine Kulturlandschaft der Zukunft. *Tiroler Chronist* 128: 2-7.
- Pecher, C., Tasser, E. (2013) Aus der Vogelperspektive in die Vergangenheit blicken: Karten- und

Luftbildauswertung - eine Anleitung. *Tiroler Chronist* 128: 28-32.

- Fontana, V., Radtke, A., Walde, J., Tasser, E., Wilhalm, T., Zerbe, S., Tappeiner, U. (2014) What plant traits tell us: consequences of land-use change of a traditional agro-forest system on biodiversity and ecosystem service provision. *Agriculture, Ecosystems and Environment* 186, 44-53.
- Obojes, N., Bahn, M., Tasser, E., Walde, J., Inauen, N., Hiltbrunner, E., Saccone, P., Lochet, J., Clément, J.C., Lavorel, S., Tappeiner, U., Körner C. (2014) Vegetation effects on the water balance of mountain grasslands depend on climatic conditions. *Ecohydrology*, DOI: 10.1002/eco.1524.
- Schirpke, U., Tasser, E., Tappeiner, U. (2014) Mapping ecosystem services supply in mountain regions: A case study from South Tyrol (Italy). *Annali di Botanica* 4: 45-52.
- Wohlfahrt, G., Tasser, E. (2014) A mobile system for quantifying the spatial variability of the surface energy balance: design and application. *International Journal of Biometeorology*, DOI: 10.1007/s00484-014-0875-8.
- Kirchner, M., Schmidt, J., Kindermann, G., Kulmer, V., Mitter, H., Pretenthaler, F., Rüdissler, J., Schuppenlehner, T., Schönhart, M., Strauss, F., Tappeiner, U., Tasser, E., Schmid, E. (2015) Assessing trade-offs and Synergies of ecosystem services and economic impacts in Austrian agriculture under climate and policy change. *Ecological Economics* 109, 161-174.
- Newesely, Ch., Leitinger, G., Zimmerhofer, W., Kohl, B., Markart, G., Tasser, E., Tappeiner U. (2015) Rain simulation in patchy landscapes: insights from a case study in the central Alps. *Catena* 127: 1-8.
- Rüdissler, J., Tasser, E., Peham, T., Meyer, E., Tappeiner, U. (2015) The dark side of biodiversity: spatial application of the Biological Soil Quality Indicator (BSQ). *Ecological Indicators* 53: 240-246.
- Rüdissler, J., Walde, J., Tasser, E., Frühauf, J., Teufelbauer, N., Tappeiner U. (2015) Biodiversity in cultural landscapes: influence of land use intensity on bird assemblages. *Landscape Ecology* 30/10: 1851-1863. DOI 10.1007/s10980-015-0215-3.
- Nagler, M., Fontana, V., Lair, G.J., Radtke, A., Tasser, E., Zerbe, S., Tappeiner U. (2015) Different management of larch grasslands in the European Alps shows slow impact on above- and belowground carbon stocks. *Agriculture, Ecosystems and Environment* 213: 186-193.
- Bacher, M., Walde, J., Tasser, E., Tappeiner, U., (2016) Are interest groups different in the factors determining landscape preferences? *Landscape Online* 47:1-18 (2016), DOI 10.3097/LO.201647.
- Zoderer, B.M., Stanghellini Lupo, P.S., Tasser, E., Walde, J., Wieser, H., Tappeiner, U. (2016) Exploring socio-cultural values of ecosystem service categories in the Central Alps: The influence of socio-demographic characteristics and landscape type. *Regional Environmental Change*. DOI 10.1007/s10113-015-0922-y.
- Schirpke, U., Timmermann, F., Tappeiner, U., Tasser, E. (2016) Cultural ecosystem services of mountain regions: Modelling the aesthetic value. *Ecological Indicators* 69, 78-90.
- Egarter Vigl, L., Schirpke, U., Tasser, E., Tappeiner, U. (2016) Linking long-term landscape dynamics to the multiple interactions among ecosystem services in the European Alps. *Landscape Ecology*, DOI 10.1007/s10980-016-0389-3.
- Niedrist G., Tasser E., Bertoldi G., Della Chiesa S., Obojes N., Egarter-Vigl L., Tappeiner U. (2016) Down to future: Transplanted mountain meadows react within creasing phytomass or shifting species composition. *Flora* 224, 172-182.
- Zoderer, B.M., Tasser, E., Erb, K., Lupo Stanghellini, P.S., Tappeiner, U. (2016) Identifying and mapping the tourists' perception of cultural ecosystem services: A case study from an Alpine region. *Land Use Policy* 56, 251-261.
- Tasser, E., Plaikner, M., Moos, V., Dubbert, M., Bogner, D. (2016) Ein praxistaugliches Indikatorenset zur Messung der Biodiversität im alpinen Intensivgrünland. *Acta ZooBot Austria* 153, 123-135.
- Tasser, E., Leitinger, G., Tappeiner, U. (2017) Climate Change versus Land-Use Change - which affects the landscape more? *Land Use Policy* 60: 60-72.
- Meier, M., Stöhr, D., Walde, J., Tasser, E. (2017) Influence of ungulates on the vegetation composition and diversity of mixed deciduous and coniferous mountain forest in Austria. *European Journal of Wildlife Research* 63/1, 1-10. DOI 10.1007/s10344-017-1087-4.
- Egarter Vigl, L., Tasser, E., Schirpke, U., Tappeiner, U. (2017) Using land use/land cover trajectories to uncover ecosystem service patterns across the Alps. *Regional Environmental Change*. DOI 10.1007/s10113-017-1132-6.
- Niedertscheider, M., Tasser, E., Patek, M., Rüdissler, J., Tappeiner, U., Erb, K.-H. (2017)

Influence of land-use intensification on vegetation C-stocks in an Alpine valley from 1865 to 2003. *Ecosystems*. DOI: 10.1007/s10021-017-0120-5.