

Curriculum vitae

Erich Ignaz Tasser

OFFICE

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1 PERSONAL

Born: 08.12.1969 in Prettau (Ahrntal/South Tyrol/Italy)
Marriage: 01.03.03 to Sonja Maria Gamper
Children: Martin and Greta

2 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“

3 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 Alpen 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.

4 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.

5 PUBLICATION ACTIVITIES

65 papers in peer reviewed journals and books, 7 monographs, 64 papers in national and international journals, non peer reviewed, more than 90 popular scientific articles

Recent publications:

- Elmi, M., Hoffmann, C., Niedrist, G., Pechlaner, H., Pedoth, L., Pinzger, S., Pistocchi, A., Tappeiner, U., Tasser, E., Zebisch, M. (2011): Klimareport Südtirol. Athesia, Bozen.
- Flury, C., Huber, R., Tasser, E. (2013) Future of Mountain Agriculture in the Alps. In: Mann, S. (Ed.) The Future of Mountain Agriculture. Springer Geography, Heidelberg: 105-126.
- 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.
- Fontana, V., Radtke, A., Walde, J., Tasser, E., Wilhelm, 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.
- Kirchner, M., Schmidt, J., Kindermann, G., Kulmer, V., Mitter, H., Pretenthaler, F., Rüdiger, J., Schauppenlehner, 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* Volume 127, 1-8.
- 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.
- Pecher, C., Tasser, E. (2013) Aus der Vogelperspektive in die Vergangenheit blicken: Karten- und Luftbilddauswertung - eine Anleitung. *Tiroler Chronist* 128: 28-32.
- Pecher, C., Tasser, E., Walde, J., Tappeiner, U. (2013) Typology of Alpine space using spatial-pattern indicators. *Ecological Indicators* 24, 37-47.
- Rüdiger, 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.
- 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., Leitinger, G., Tappeiner, U., Tasser, E. (2012) SPA-LUCC: Developing land use/cover scenarios in mountain landscapes. *Ecological Informatics* 12, 68-76.
- 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.
- 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.
- Schirpke, U., Tasser, E., Tappeiner, U. (2013) Predicting scenic beauty of mountain regions. *Landscape and Urban Planning* 111, 1-12.
- 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.
- Tappeiner, U., Borsdorf, A., Tasser, E. (Hrsg.) (2008) *Mapping the Alps*. Spektrum, Heidelberg.
- Tasser, E. (2013) Geschichte trifft Zukunft oder das Projekt „Kultur.Land.(Wirt)schaft-Strategien für eine Kulturlandschaft der Zukunft. *Tiroler Chronist* 128: 2-7.
- Tasser, E., Aigner, S., Egger, G., Tappeiner, U. (2013) *Alm-/Alpatlas*. Tappeiner, Lana.
- Tasser, E., Lüth C., Niedrist, G., Tappeiner, U. (2011) Bestimmungsschlüssel für landwirtschaftlich genutzte Grünlandgesellschaften in Tirol und Südtirol. *Gredleriana* 10: 11-62.
- Tasser, E., Schermer, M., Siegl, G., Tappeiner, U. (2012) *Noi artefici del paesaggio. Essenza ed evoluzione del paesaggio culturale tirolese*. Eurac, Bozen.
- Tasser, E., Schermer, M., Siegl, G., Tappeiner, U. (2012) *Wir Landschaftsmacher. Vom Sein und Werden der Kulturlandschaft in Nord-, Ost- und Südtirol*. Athesia, Bozen.
- 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.