

Workshop

“Challenges for a Systemic Environmental Monitoring and Adequate Indicators“

An international scientific conference at the
Italo-German Centre for European Excellency “Villa Vigoni”, October 7th to 10th, 2010

Thursday, October 07th, 2010

18.00 Arrival and Registration

19:30 Welcome, Introduction and Dinner

Hubert Wiggering, Simone Bastianoni, Hans-Peter Ende & Federico Pulselli (ZALF Müncheberg, DE; Univ. Siena, IT)	Questions, Targets and Organisation of the Workshop
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Friday, October 08th, 2010

08:30 – 10:30 Section 1: Ecosystem Services and the Specific Character of Complex Systems

Felix Müller, Irene Petrosillo, Benjamin Burkhard, Giovanni Zurlini (Univ. Kiel, DE and Univ. Lecce, IT)	Ecosystem services and the specific character of complex systems
Simone Bastianoni & Federico Pulselli (Univ. Siena, IT)	Energy flows and ecosystem services evaluation
Rudolf de Groot (Univ. Wageningen, NL)	Potential applications of the ecosystem services concept: experiences from the TEEB project
Franziska Kroll, Benjamin Burkhard, Felix Müller (Univ. Kiel, DE)	Quantification and mapping methods of ecosystem services supply and demand

10:30 – 11:00 Coffee break

11:00 – 12:30

Federico Pulselli, Luca Coscieme & Sharlynn Sweeney (Univ. Siena, IT and Univ. of Florida, USA)	A physical basis for the evaluation of ecosystem services
Joachim H. Spangenberg (UFZ Halle, DE)	Towards indicator systems integrating human and environmental systems
Claudia Sattler, Bettina Matzdorf (ZALF Müncheberg, DE)	Ecosystem services – indicators for supply versus demand

Friday, October 08th, 2010 (continued)

12:30 – 13:30 Lunch break

13:30 – 15:30 Section 2: Land Management Relation to Ecosystem Services

Katharina Helming, Hannes König, Katharina Diehl (ZALF Müncheberg, DE)	Interaction of land use and ecosystem services - assessment framework and application examples
Silvia Tobias (WSL, Birmensdorf, CH)	Land management interaction with ESS in periurban systems
Michael Glemnitz, Ralph Platen & Johannes Hufnagel (ZALF Müncheberg, DE)	Indicators for land management impacts on ESS in agricultural systems - lessons from the ZALF-energy cropping project
Marcus Lindner, Hans Verkerk (EFI, FI)	Land management interaction with ESS in forestry systems

15:30 – 16:00 Coffee break

16:00 – 17:30

Katrin Prager (Macaulay, Aberdeen, UK)	Encouraging collaboration for the provision of ecosystem services
Chiara Paoli, Paolo Vassallo, Carlo Nike Bianchi et al. (Univ. of Genova)	A systemic assessment of biodiversity monetary value
Antonio Bodini (Univ. of Parma, IT)	Cities as complex systems: urban growth and development in an ecosystem perspective

19:30 Dinner

Saturday, October 09th, 2010

09:00 – 10:30 Section 3: Challenges in Research Data Management

Jörg Pilz, Martina Puhlmann (ZALF Müncheberg, DE)	Virtual research environments and open repositories for quality assured primary research data
Jan Brase (TIB Hannover, DE)	DataCite – Enabling citable research data sets
Benjamin Burkhardt, Franziska Kroll & Felix Müller (Univ. Kiel, DE)	Spatial Tools of Ecosystem Services Assessments and Monitoring

10:30 – 11:00 Coffee Break

11:00 – 12:30 Section 4: Implementation Issues

Uwe Heinrich, N.N. (ZALF Müncheberg, DE)	Status of data in the environmental sciences
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Saturday, October 09th, 2010 (continued)

Roberto Pastres, Daniele Brigolin, Tomas Lovato (Univ. of Venice)	Combining automatic sampling of water quality variables an Very High Order Models for improving the efficiency of monitoring systems in coastal zones
Luca Montanarella (JRC Ispra, EU)	Challenges for a systematic soil monitoring system and adequate soil indicators

12.30 – 13:30 Lunch Break

13:30 – 15:00

Uta Steinhardt, Hans-Peter Ende, Hubert Wiggering (Univ. of Applied Sciences Eberswalde; ZALF Müncheberg, DE)	How to implement ESS into adaptation strategies for regions under climate change
Roman Lenz, Werner Rolf, David Peters (Nürtingen-Geislingen Univ., Germany)	Spatio-temporal optimization of landscape services – a „corridor“ approach for planners
Paolo Vassallo, Chiara Paoli, Susanna Baiardo & Mauro Fabiano (Univ. of Genova)	Sustainability assessment of an Italian coastal resort region integrated using emergy sysnthesis

15:00 – 15:30 Coffee break

15:30 – 16:30

Susanna Baiardo, Chiara Paoli, Paolo Vassallo & Mauro Fabiano (Univ. of Genova)	The value of beaches as eco-services reservoirs
Jürgen Ott (Univ. of Landau, DE)	The monitoring-project „Kolbental“ – lessons from a 13-year monitoring study in a protected wetland area

16:30 – 18:00 Final Discussion

19:30 Dinner

Sunday, October 10th, 2010

08:30

Simone Bastianoni, Hubert Wiggering, Federico Pulselli & Hans-Peter Ende (ZALF Muencheberg, DE; Univ. Siena, IT)	Summary of the results and next steps – The Workshop Communiqué Concluding remarks
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10.00 End of the workshop and departure

List of Participants

Sig.ra	Baiardo	Susanna	IT	University of Genova
Prof. Dr.	Bastianoni	Simone	IT	University of Siena
Prof.	Bodini	Antonio	IT	University of Parma
Dr.	Bräse	Jan	DE	TIB Hannover
Dr.	Burkhard	Benjamin	DE	University of Kiel
Prof. Dr.	de Groot	Rudolf	NL	University of Wageningen
	Diehl	Katharina	DE	ZALF Müncheberg
Dr.	Ende	Hans-Peter	DE	ZALF Müncheberg
Dr.	Glemnitz	Michael	DE	ZALF Müncheberg
Dr.	Heinrich	Uwe	DE	ZALF Müncheberg
Dr.	Helming	Katharina	DE	ZALF Müncheberg
	Kroll	Franziska	DE	University of Kiel
Prof. Dr.	Lenz	Roman	DE	University of Nürtingen-Geislingen
Dr.	Lindner	Marcus	FI	EFL, Joensuu
Dr.	Lovato	Tomas	IT	University of Venice
Dr.	Montantarella	Luca	IT	JRC, Ispra
Prof. Dr.	Müller	Felix	DE	University of Kiel
Dr.	Ott	Jürgen	DE	University of Landau
Prof.	Paoli	Chiara	IT	University of Genova
Dr.	Petrosillo	Irene	IT	University of Lecce
Dr.	Pilz	Jörg	DE	ZALF Müncheberg
Dr.	Prager	Katrin	UK	Macaulay, Aberdeen
Dr.	Puhlmann	Martina	DE	ZALF Müncheberg
Prof.	Pulselli	Federico M.	IT	University of Siena
Dr.	Sattler	Claudia	DE	ZALF Müncheberg
Dr.	Spangenberg	Joachim	DE	UFZ Leipzig-Halle
Prof. Dr.	Steinhardt	Uta	DE	University of Applied Sciences Eberswalde
Dr.	Tobias	Silvia	CH	WSL Birmensdorf
Prof.	Vassallo	Paolo	IT	University of Genova
Dr.	Verkerk	Hans	FI	EFL, Joensuu
Prof. Dr.	Wiggering	Hubert	DE	ZALF Müncheberg
Prof. Dr.	Zurlini	Giovanni	IT	University of Lecce