Solutions for Sustaining Natural Capital and Ecosystem Services: **Designing Socio-Ecological Institutions**

Salzau 2010



International Conference and Workshop Salzau Castle and Kiel University (Northern Germany) June 7th 2010 - June 11th 2010

The Ecosystem Service Partnership is organizing an international workshop at Salzau Castle to provide methodological, strategic and institutional solutions for the future development and application of the ecosystem service approach. The workshop subjects are focused on four basic themes, which are:

- Integrated quantification, modelling, and valuing of ecosystem services: How can we measure and evaluate ecosystem services? How can we link ecosystem functions, services and benefits? How can ecosystem services be explicitly linked to human well-being?
- o Accounting for ecosystem services at the landscape level: How can the ecosystem service approach be applied in landscape analysis, landscape planning and landscape management?
- o Adaptive management of ecosystem services: Which supporting tools have to be developed to enhance the applicability of the ecosystem service approach in adaptive management? How can the approach be implemented in management strategies and institutions?
- o Environmental, social and economic trade-offs: How can ecosystem services be evaluated from social and economic points-of-view? Which instruments should be developed to foster these evaluation strategies?

On the following pages, a draft of the workshop topics and some organizational issues are presented, and contributions are requested. This paper is sent to potential authors and topic coordinators, asking them for background papers, commented hypotheses, articles or contributions during the workshop. The schedule should be understood as an interim stage of preparation, therefore also critical comments and proposals for improvement are most welcome.

DRAFT!!!!1

Workshop Topics and Themes

Topic I. Characterizing and Measuring Natural Capital and Ecosystem Services

Topic Coordinator: Rudolf de Groot

I. A Integrated quantification, modelling, and valuing of ecosystem services

Theme Coordinator: Ralf Seppelt

I.A.1 Linking ecosystem functions and ecosystem services

Authors²: Dagmar Haase, Olaf Bastian, Karsten Grunewald

I.A.2 Linking ecosystem services and biodiversity

Authors: Joachim Spangenberg, Carsten Neßhöver, Josef Settele

I.A.3 Indicating and characterizing ecosystem service dynamics

Authors: Michael Glemnitz, Brian Fath

I.A.4 Modelling ecosystem services

Authors: Roelof Boumans, Bernhard Patten

I.A.5 Linking ecosystem services and human well-being

Authors: Marion Potschin, Kira Gee, Kevin Summers

I. B Accounting for ecosystem services at the landscape level

Theme Coordinator: Roy Haynes-Young

I.B.1 Potentials of ecosystem service accounting at different scales

Authors: Giovanni Zurlini, Irene Petrosillo, Tobias Plieninger

I.B.2 Accounting and evaluating interrelated ecosystem services

Authors: Markus Erhard, Malte Busch

I.B.3 Land cover and spatial heterogeneity: Place-based assessments of ecosystem services

Authors: Ulrich Walz, Ralf-Uwe Syrbe

I.B.4 Mapping ecosystem services

Authors: Benjamin Burkhard, Peter Verburg

¹ This is a preliminary list of workshop topics and potential contributions. It will for sure be modified in March 2010, when all abstracts and registrations have been taken into account and the ideas of the theme coordinators have been considered.

 $^{^2}$ Actual state from December 10th, 2009, as a result of e-mail communications in 2009: additional contributions are requested.

Topic II: **Designing Socio-Ecological Institutions**

Topic Coordinator: Robert Costanza

II.A Adaptive management of ecosystem services

Workshop Preparation

Theme Coordinator: K. Bruce Jones

II.A.1 Developing integrative decision support instruments

Authors: Sven-Erik Joergensen, Carsten Lorz, Bailian Li, Harpinder Sandhu, Karin Nadrowski

II.A.2 Designing and implementing a systematic landscape monitoring approach for quantifying ecosystem services

Authors: Dixon Landers, Anne Neale, Jim Wickham

II.A.3 Implementing ecosystem services in sustainability management strategies and institutions

Authors: Katharina Helming, Dieter vd Broeck, Christiane Heiß

II.A.4 People and organizations behind the institutional solutions for ecosystem services

Authors: Simone Maynard, Andreas Kannen

II.B Environmental, social and economic trade offs

Theme Coordinators: Klaus Müller & Bettina Matzdorf

II.B.1 Public goods, commons and ecosystem services

Authors: Henrik Vejre

II.B.2 Understanding complex property rights regimes

Requested authors: Thomas Dietz

II.B.3 Providing economic incentives

Authors: Tobias Plieninger

II.B.4 Establishing common asset trusts

Authors: Peter Barns

II.B.5 Supply and demand of ecosystem services

Authors: Thomas Koellner, Franziska Kroll

II.B.6 Ecosystem Service tradeoffs

Authors: Janine Bollinger, Wieteke Willemen

Cross cutting issues: The proposed items of discussion will be centered around the 4 working group themes listed above. The actual list has been worked out on the base of several feedbacks after the first "info-mail" from June 2009, which has introduced the basic workshop concept and asked for additional ideas. All papers and poster presentations should be assigned to these themes, providing new ideas, solutions, new case study results or new conceptual strategies. All topics should also consider problems and solutions related to

- Scaling, space, dynamics, transdisciplinarity
- Communication and outreach

Workshop Preparation

- Suggestions for the enhanced implementation of the ecosystem service approach
- Development of research questions from practical demands

The discussions should lead to the formulation of a "Salzau Message for Decision **Makers**", trying to better implement the concept of ecosystem goods and services in decision making processes. This message will be elaborated during the workshop.

The **products of the conference and the workshops** are planned to be

- Background papers to be primarily published by the Encyclopedia of Earth. The background papers should describe the state-of-the-art in the respective research field, derive most important research questions and argue for topical questions to be discussed during the workshop (What do we know? Where are the main problems? How can we solve them?). All "theme coordinators" are asked to produce or coordinate a background paper and present it during the conference, and all participants are invited to submit a background article.
- The requested "authors" who are representing a more specialized research field, might also write such an article or a "commented hypothesis" paper which will hopefully be provoking and stimulating the workshop discussions focusing on "burning questions and issues". Their contributions should be presented during the workshop and become part of the final text product.
- Updated background papers, selected articles from the workshop participants and joint synthesis chapters will be printed in a book or special issue(s). The workshop results as well as the best papers will be published in a consensual format. The different possibilities of publication (e.g. one edited book vs. one or two special issues [the journals "Biodiversity Science and Management" and "Ecological Indicators" are ready to publish special issues]) will be discussed during the workshop.
- Summarizing publication of a feature in the new journal *Solutions* .

The **preliminary schedule** includes the following steps:

o September-December 2009:

- e-mail discussion about main topics, questions and organization
- Invitations for background papers and call for commented hypotheses
- Call for papers, posters and presentations

February 2010:

Establishing the workshop web page

- Background papers are submitted to the *Encyclopedia of Earth*
- (http://www.eoearth.org/) and linked to the conference web page

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Commented hypotheses and abstracts are submitted to the conference web page

February 2010:

- Registration of participants

o **Spring 2010**:

- Pre-conference discussions in working groups

Introductory public lectures and workshop outline at Kiel o June 7, 2010

University

o June 8-10, 2010 Workshop in Salzau Castle

o June 11, 2010 Excursion (if there is a respective demand from the

participants)

Course on Fuzzy Modelling of Ecosystem Services o June 12-13, 2010

(if there is a respective demand from the participants)

 December 2010: Final editorial works on the jointly produced book/special

issue(s)

Preliminary Workshop Time Table

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday,
	June 7	June 8	June 9	June 10	June 11	Sunday
						June 12-13
Morning	Introduction	Transfer	Plenum	Plenum	Excursion	Modelling
1	Lectures	Kiel-Salzau	Lectures	Lectures		Course
Morning	Lectures	Workshop	Working	Working	Excursion	Modelling
2	Lectures	Introduction	groups	groups		Course
Lunch	Mensa	Salzau	Salzau	Salzau	Excursion	Modelling
	University	Castle	Castle	Castle		Course
Afternoon	Lectures	Working	Working	Plenum	Excursion	Modelling
1	Lectures	groups	groups	Discussion		Course
Afternoon	Background	Working	Working	Plenum	Excursion	Modelling
2	papers	groups	groups	Discussion		Course
Evening	Background	Poster	Plenum	Transfer	Excursion	Modelling
Session	papers	Session	Discussion	Salzau-Kiel		Course
Dinner	Restaurant	Salzau	Salzau	Kiel	Kiel	Kiel
	in Kiel	Castle	Castle	Self-organ.	Self-organ.	Self-organ.
Location	Kiel	Salzau	Salzau	Salzau	Kiel	Kiel

Requested plenum lectures: During the first day of the workshop, public lectures will be given at the University of Kiel. They will on the one hand introduce the theme to a wider audience, including practical environmental managers and stakeholders, and on the other, introduce the participants to the focal workshop topics, questions and problems.

Public lectures on June 7th (working titles):

- o Introducing the concept of ecosystem services: Biophysical conceptions Speaker: Rudolf de Groot
- o Introducing the concept of ecosystem services: Economic and social conceptions

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Speaker: Robert Costanza

Beyond GDP: Ecosystem services as components of progress, wealth and well-being

Requested speaker: Jean-Louis Weber

o Concept and results of the TEEB study: The Economics of Ecosystems and **Biodiversity**

Speaker: TEEB team

o Ecosystem services in practice: Potentials and limitations in environmental management

Speaker: Christina van Haaren

o Background paper 1: Integrated quantification, modeling, and valuing of ecosystem services

Speaker: Ralf Seppelt

o Background paper 2: Accounting for ecosystem services at the landscape level

Speaker: Roy Haynes-Young

o Background paper 3: Adaptive management of ecosystem services

Speaker: K. Bruce Jones

o Background paper 4: Environmental, social and economic trade offs Speakers: Klaus Müller & Bettina Matzdorf

• Lectures at Salzau Castle (working titles):

o Problems and solutions found in the RUBICODE project

Speakers: Paula Harrison & Pamela Berry

o Problems and solutions found in the FRESH initiative

Speaker: Marion Potschin

• How to integrate ecosystem services in environmental management?

Speaker: Horst Korn

o Political concepts of applying the ecosystem service approach

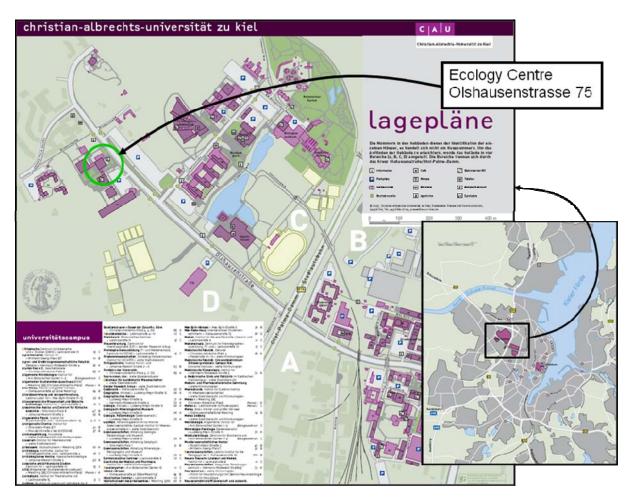
Requested speaker: NN

After the workshop, we are happy to offer a **course on "Fuzzy Modelling Approach to Characterizing and Measuring Ecosystem Services**", which will be organized by Prof. Dr. Bailian Li from the University of Riverside in California. The course will take place at the Ecology Centre of Kiel University. For the course, an additional registration fee of about 200,00 € will be necessary. Interested participants should register for the course before March 2010.

Additionally there is the opportunity to have an excursion to the surroundings of Salzau Castle, which can be characterized by the coast of the Baltic Sea and the hilly landscape of the "Holsteinische Schweiz" (see http://www.naturpark-holsteinischeschweiz.de/). If the number of participants exceeds a critical mass, several problems and methods of ecosystem quantification and valuation can be discussed "in the real world". Also for the excursion we will need an additional monetary contribution of about 45,00 €. Interested participants should register before Mach 2010.

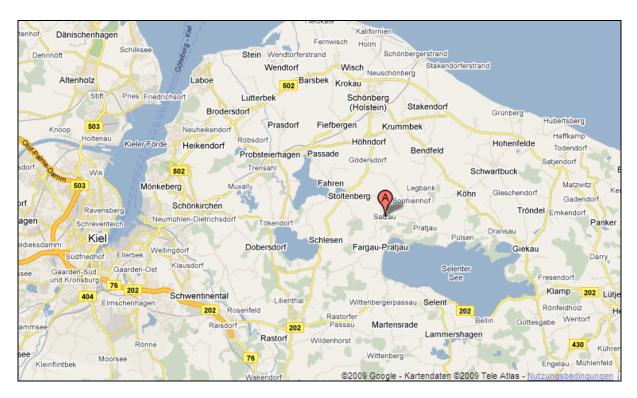
Finances: The workshop will be "self-sustaining", the accommodation and nutrition at Salzau Castle are not luxury but also not expensive. The participants will be asked for a moderate contribution to the organization costs which will include a support of the travelling costs of the plenum speakers. The tentative participant's costs (which will be definitely determined after the registration phase, when the participant list is complete) can be estimated to about 200,00 € for the room and equipment charges of Salzau Castle, transfer and organizational costs, about $45,00 \in \text{for catering per person}$ and day and about $45,00 \in \text{per night for the accommodation in average (suite: 77,00 − 105,00 €, single room: <math>32,00 - 57,00 \in \text{, double room per person}$: $22,00 - 47,00 \in \text{, multi-person}$ room per person: $20,00 \in \text{; price margins due to different equipments of the rooms}$). The participation at the public lectures in Kiel is free of charge. The participants will receive an invoice according to their registration features and will be asked to transfer the money before the start of the conference.

Conference venues: The public lectures on June 7th as well as the modeling course will be located at the **Ecology Centre of the Kiel** University (see http://www.ecology.uni-kiel.de/ecology/). The address is Olshausenstrasse 75, at the western part of the University campus. The Ecology Centre can be reached by the following bus lines: Bus stop Leibniz-Strasse - Line 61 (direction Suchsdorf), 62 (direction Projensdorf), 81 (direction Botanischer Garten). All these bus lines start at the main station, and they need about twenty minutes to reach the Olshausenstrasse.



Workshop Preparation

The workshop will take place at **Salzau Castle**, which is located about 30 km in the east of Kiel City (See http://www.kulturzentrum-salzau.de/de/start/index.php). As this is a rather remote place, there will be a bus transfer on June 8th and June 10th. The bus to Salzau will start at the Kiel Main Station on June 8th, 08:30 o'clock in the morning. Participants are asked to meet at the information desk of the railway station. The ride back to Kiel station will start at 15:00 o'clock on Thursday afternoon. It will take about 30-40 minutes.



If you arrive at **Hamburg Airport**, you can choose between two bus services (called Kielius and KielEx): Both start in front of the terminals at the arrival level. You can download a schedule at the web page http://www.kielius.de/de/id425.htm. In Kiel the bus terminal is located right besides the main station.

The **accommodation** before June 7th and after June 10th should be "self-organized" by the participants, while the room booking in Salzau (June 8th-10th) is done via the participants' registration. In Kiel you should look for a hotel near the main station (e.g. InterCity Hotel, Berliner Hof, Astor, Best Western, Basic Hotels, Hotel am Schwedenkai, der Hörn,...), using the following e.g. http://www.hotel.de/de.hotels/Kiel 36306/hotels.aspx or http://www.kurskiel.de/index.php?clang=en&active_id=1

As the holiday season will be starting in June, you might better book the hotel very quickly.

Next steps:

Send us your registration: Please use the attached form, fill it in and send it to Felix Müller → fmueller@ecology.uni-kiel.de . We will be waiting for your feed back until the <u>end of February 2010</u>, but of course we will be happy if you register before. Please take into account that there are a restricted number of participants in Salzau (around 100 persons in maximum); thus a rapid registration might be helpful to be accepted. In case there are more registrations than available space, there must be a selection process which will be carried in cooperation out with the topic and theme coordinators.

- Send us a short abstract of your contribution. This summary will be needed by the theme coordinators to prepare the discussion and construct the workshop schedules. It will also be put on the conference web page to inform all participants. Please, do not exceed 200-300 words and send the abstract to us together with the registration until the end of February 2010.
- Submit your "background paper" to the Encyclopedia of Earth. The background papers will provide the basic information, questions and hypotheses of the thematic discussions. They include a description of the respective state-of-the-art, the actual problems and proposals how to solve them. The background papers thus will provide a baseline for the Salzau discussions and they are the fundaments of forthcoming joint result articles.
 - These papers will be submitted to the online platform "Encyclopedia of Earth" (http://www.eoearth.org/). To get an idea about the layout of these contributions, it is for sure helpful to investigate this web page. We are very happy that Mrs. Ida Kubiszewski from the University of Vermont will support the submission process. Therefore, please send your background paper to the following address: ida.kub@gmail.com and add a copy to F. Müller (fmueller@ecology.uni-kiel.de) which will be needed to update the conference web page. You should enclose your paper as a word file and add a short cv of yourself. You should be aware that there will be a review process and that the editors of the encyclopedia are asking us to avoid jargon, because (besides the conference participants) the web page aims at "an educated and interdisciplinary public". We are hoping that the background papers can be available in the end of February.
- o **Submit your "commented hypothesis paper**". If you wish to influence the line-of-argumentation or foster the discussions during the workshop, if you have a burning question, if you see an important problem or if you want to provoke an intensive exchange of certain arguments, it will be a good idea to send us a "commented hypothesis paper". For these papers there are no formal requirements. They should be short but they should lead the reader to the focal problem on the base of a comprehensive and serious introduction. They should be convincing and in fact, they should be based on a (may be provocative) hypothesis. The theme coordinators will use these papers for structuring the workshops and for sure the authors will be asked to present them at Salzau.

The hypothesis papers will be published at the conference web page and all participants will be informed about the submission. Therefore, they should be sent as a word file to Felix Müller (fmueller@ecology.uni-kiel.de). If the authors think that the article could also fit into the Encyclopedia EoE, the papers can also be sent to this online journal.

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Solutions for Sustaining Natural Capital and Ecosystem Services: Designing Socio-Ecological Institutions; June 7-11, 2010

Workshop Registration Form³

Communication information:

Your name	
Your e-mail address	
Your affiliation and postal address	

Your contributions:

I wish to present the following oral presentation:	"Title"	contributing to the workshop topic (Ia,) " <u></u> "
I wish to present the	" <mark>Title</mark> "	contributing to the
following poster:		workshop topic (Ia,)
		u <mark></mark> u
I wish to contribute	a background paper >	→ <mark>yes / no</mark>
in the workshop	a commented hypothesis paper 🗦	→ <mark>yes / no</mark>
preparation by		
I wish to participate	preferring a book chapter	→ <mark>yes / no</mark>
in the documentation	preferring a journal paper	→ <mark>yes / no</mark>
of the conference	preferring a multi-author-article	→ <mark>yes / no</mark>

Your planned schedule:

		_		
I will participate in the whole conference	<mark>yes / no</mark>	If yes, please ignore the next row		
I will participate only in the following	June 7th	June 8th	June 9th	June 10th
parts of the conference				
	<mark>yes / no</mark>	<mark>yes / no</mark>	<mark>yes / no</mark>	<mark>yes / no</mark>
I wish to participate in an excursion on	<mark>yes / no</mark>			
June 11st				
I wish to participate in the course on	<mark>yes / no</mark>			
fuzzy modeling of ecosystem services				

Your transport requirements:

I will reach the conference venues without transport assistance	yes / no
I wish to participate in the transfer Kiel Main Station \rightarrow Salzau (June 8th)	<mark>yes / no</mark>
I wish to participate in the transfer Salzau \rightarrow Kiel Main Station (June 10 th)	yes / no

Your accomodation information in Salzau Castle:

Please make a reservation for a single-bed room in Salzau Castle	yes / no
Please make a reservation for a suite in Salzau Castle	<mark>yes / no</mark>
(to be shared with)	
Please make a reservation for a double bed room in Salzau Castle	<mark>yes / no</mark>
(to be shared with)	
Please make a reservation for a multi bed room in Salzau Castle	yes / no
(to be shared with)	

³ Please send the filled-out form to <fmueller@ecology.uni-kiel.de>

Remarks, ideas and recommendations:

Workshop Preparation

Do you have special food requirements?
Do you have special transfer requirements?

Check list:

Some points to think of in time	done
Fill in the registration form and send it to <u>fmueller@ecology.uni-kiel.de</u> . As the space in Salzau is restricted to about 100 persons it might be better to hurry up.	
Send a short abstract of your contribution to the same e-mail address.	
Book your hotel accommodation (for the nights before June 8 th and after June 10 th) in Kiel in time, because the holiday season will be starting. You should look for a hotel near the main station (e.g. InterCity Hotel, Berliner Hof, Astor, Best Western, Basic Hotels, Hotel am Schwedenkai, Hotel an der Hörn,), using e.g. the web page http://www.hotel.de/de.hotels/Kiel_36306/hotels.aspx or http://www.kurskiel.de/index.php?clang=en&active_id=1	
Write your written contribution in the form of a background paper or a commented hypothesis paper and submit it before end of February 2010.	
Be prepared to receive an invoice in spring time. Of course we will be extremely happy if you will be able to pay the sum as soon as possible.	