

ExpeER Related Sites Group (RSG) Meeting

Timing: Tu., 17 February 2015, 13:00-18:30 CET (Central European Time)
We., 18 February 2015, 08:30-14:30 CET

Venue: Institut français d'Autriche, Palais Clam-Gallas
Währingerstrasse 30, 1090 Wien, Austria

Overview of topics:

- Sessions on outcomes in key fields of ExpeER with relevance for ecosystem research sites: modelling and modelling toolkits, development of standards, new field methods and information management
- Ecosystem research infrastructures “post ExpeER”: Interactions of elements in the European RI landscape from the site holders and site co-ordinators perspective: What services and interfaces do sites need to succeed?
- Towards joint expert groups: How can tools and services be jointly used and further developed across individual RIs

Tuesday 17th 13:00-18:30

Lunch is served on site 12:00 to 13:00

Session “Standardization and harmonization of parameters”

Presentations part:

- Introduction by B. Kunin
- Variable prioritisation process and tools (M. Frenzel), 15-20 min
- Standardization process (B. Kunin), 15 min
- Experiences from the training sessions and dissemination process (G. Matteucci, E. Groner), 20 min

Discussion & vision part:

- Perception of relevance within RSG
- Specifically: role and importance of a common high quality Earth Observation component in the current and emerging ecosystem research RIs
- *In preparation of the brainstorming session on Wednesday:*
 - *Future vision for standardisation & harmonisation of parameters (& methods?) within and across ecosystem research RIs (see options outlined above)*
 - *How can the vision be implemented in view of concrete emerging projects and strategic planning at the European scale?*

HINT: “Hands on” seminar of interested participants with standardization Experts (M. Frenzel, B. Kunin, G. Matteucci, E. Groner): Wednesday 13:30-14:30:

- *Working with EcoPAR*
- *Continuation of training activities in other project/network contexts*

Session: „Key methods relevant for sites and national in-situ networks“

- Introduction and overview (S. Zacharias), 5 min
- Sensing the Critical Zone – Wireless Sensor Networks (N.N.), 15 min
- Possibilities and limits of proximal soil sensing - Mobile Geophysics (N.N), 15 min.
- Soil Moisture beyond the point scale – Cosmic Ray Moisture Probes (S. Zacharias), 15, min
- Discussion: 10 min

Session: “Multi-scale ecosystem modelling tools including data assimilation”

- Introduction and overview (C. Beier, K. Steenberg Larsen, H.-J. Hendricks-Franssen), 10 min
- Ecosystem models and the ExpeER model toolbox (P.-E. Jansson, Klaus Steenberg Larsen), 45 min
- Upscaling framework for biogeochemical fluxes - the role of data assimilation in the context of ecosystem modelling (H.-J. Hendricks-Franssen), 45 min
- Chance for participants to briefly report on modelling experiences and models used at their sites, 20 min
- Discussion, 30 min:
 - Use of modeling platforms and models across ecosystem research RIs (constraints, necessities)
 - Possibilities and necessities towards increasing the number of sites fit for data input to ecosystem models

HINT: “Hands on” seminar of interested participants with ExpeER modelers (C. Beier, K. Steenberg-Larsen, P.-E. Jansson, H.-J. Hendricks-Franssen, M. Mishurov): in parallel with other “hands on seminars”: Wednesday 13:30-14:30:

- *Technical details from modelling activities in ExpeER (alongside an exemplary study)*
- *Direct ad hoc interaction*

Buffet dinner served on site starting 19:00

Wednesday 18th, 8:30-14:30

Session “Information management”

Presentations:

- Controlled vocabulary for ecosystem research - EnvThes (H. Schentz), 15 min
- Metadata management in ecosystem research (J. Peterseil), 15 min
- Linked metadata applications (N. Bertrand), 15 min

Parallel workshops and brainstormings, 90 min incl. 10 min reports to plenary

- EnvThes: Review of EnvThes, gaps analysis, future applications. (N. Bertrand)
- Tools for information management - site registry, metadata. (D. Blankman)

Discussion topic in preparation of the brainstorming session on Wednesday:

- *Future Landscape of information management for Ecosystem Research*

HINT: “Hands on” seminar for interested participants with information management experts (N. Bertrand, J. Peterseil, H. Schentz, D. Blankman): in parallel with other “hands on seminars”: Wednesday 13:30-14:30:

- *Detailed questions regarding tools*
- *Discussion of presented standards (metadata, EnvThes)*

Discussion and brainstorming session: “Recommendations for future work in a sustainably composed network”

- Ecosystem research infrastructures “post ExpeER”: Interactions of elements in the European RI landscape from the site holders and site co-ordinators perspective: What services and interfaces do sites need to succeed?
- Towards joint expert groups: How can tools and services be jointly used and further developed across individual RIs
 - Future Landscape of information management for Ecosystem Research

“Hands on” seminars of interested participants with ExpeER experts (in parallel), 18th, 13:30-14:30

Standardization Experts (M. Frenzel, B. Kunin, G. Matteucci, E. Groner):

- *Working with EcoPAR*
- *Continuation of training activities in other project/network contexts*

Information management experts (N. Bertrand, J. Peterseil, H. Schentz, D. Blankman):

- *Detailed questions regarding tools*
- *Discussion of presented standards (metadata, EnvThes)*

ExpeER modelers (C. Beier, K. Steenberg-Larsen, P.-E. Jansson, H.-J. Hendricks-Franssen, M. Mishurov):

- *Technical details from modelling activities in ExpeER (alongside an exemplary study)*
- *Direct ad hoc interaction*

Lunch is served on site 13:00 to 14:00