



OIKOS Satellite Symposium

Sharing Biodiversity data for re-use: Informatics tools and processes in Ecology

Lund, 6 February 2017

By lending access via the Internet to biodiversity data in open data infrastructures, biodiversity informatics worldwide allows anyone, anywhere to access and analyze data about all types of life on Earth. In applying common standards, research not previously possible is enabled, and better decisions to conserve and sustainably use the biological resources of the planet made possible.

This symposium will give an overview of present and future opportunities alongside recent research presentations and demonstrations of up-to-date tools for providing and acquiring information, handling data and presenting results.

Organisers: ArtDatabanken SLU, Department of Ecology, SLU, Swedish Museum of Natural History, GBIF Sweden and Swedish LifeWatch.

Date and time: Monday 6 February 2017, 9:00–16:30

Location: Ekologihuset (Ecology Building), Lund University

Cost: Free of charge (lunch not provided)

More info: www.slu.se/biodiversity-informatics



Programme

- 9.00** **Welcome/Practical information**
Anna Maria Wremp, ArtDatabanken SLU
- 9.10** **Global Biodiversity Information Outlook: Where do we stand?**
Donald Hobern, GBIF Denmark
- 9.50** **Swedish LifeWatch – an e-infrastructure for biodiversity research**
Ulf Gärdenfors, ArtDatabanken SLU
- 10.05** **GBIF-Sweden as a Partner in the Global Biodiversity Informatics Community**
Anders Telenius/Fredrik Ronqvist, Swedish Museum of Natural History (NRM)
- 10.20** *COFFEE*
- 10.40** **Ignorance Scores for Primary Biodiversity Data**
Alejandro Ruete, SLU and Greensway AB
- 11.00** **Extracting time series from occurrence records**
Nick Isaac, the Centre for Ecology & Hydrology, UK
- 11.20** **The Swedish Bird Survey – large-scale systematic citizen science biodiversity data (to be re-used)**
Åke Lindström, Lund University
- 11.40** **Tools for collecting, retrieving, presenting and analyzing biodiversity data**
An introduction to exhibitions/demonstrations
- 11.50** *LUNCH*
- 13.00** **Exhibition/demonstrations**
- 14.00** **Calculating Essential Biodiversity Variables (EBV) for species population abundance – a case study from plankton monitoring data in the Baltic Sea**
Matthias Obst, University of Gothenburg
- 14.20** **speciesgeocodeR and sampbias: new tools for detecting erroneous coordinates and accessibility bias in biological collection data**
Alexander Zizka, University of Gothenburg
- 14.40** **Simulating social-ecological systems with Digital Ecosystem Avatars**
Dawn Field, University of Gothenburg
- 15.00** **Exhibition/demonstrations, continued. Coffee available.**
- 16.00–16.30** **Open discussion/Concluding remarks**

Exhibitions/Demonstrations

**Accessing and Analyzing Biodiversity Data through the Swedish LifeWatch e-infrastructure:
The Analysis Portal for Biodiversity Data (www.analysisportal.se)**

Holger Dettki, SLU

Aggregated data, maps and microdata from the Swedish National Forest Inventory

Anna-Lena Axelsson and Neil Cory, SLU

A European phenological database, PEP725

Kjell Bolmgren, SLU and Swedish Phenology Network

Components of a microalgae information system

– Nordic Microalgae, Swedish Oceanographic Data Centre and Plankton Toolbox

Bengt Karlson, SMHI

Open Source techniques in support of Biodiversity Data:

Examples from the Atlas of Living Australia

David Martin, C.S.I.R.O. Australia.

R for computation and biodiversity analysis: Mirroreum and EU BON R packages

Markus Skyttner, NRM

<http://gbif.org>; <http://gbif.se>; <http://datos.gbif.es/>; <http://gbif.fr>; <http://www.als.scot/>

Anders Telenius, NRM

**Wireless Remote Animal Monitoring (WRAM): The national Swedish biotelemetry
database e-infrastructure for sensor data from fish and wildlife**

Timothy Giles, SLU

Abstracts and more information: www.slu.se/biodiversity-informatics