



BIOLOG

BIOLOG Statusseminar

Agenda

at the Science Center
(Wissenschaftszentrum)

in Bonn

December 5 – 7, 2001

Address of Wissenschaftszentrum:
Ahrstr. 45, 53175 Bonn
Tel.: 0228 - 3020



DLR German Aerospace Center
Project Management Organization on behalf
of the Federal Ministry of Education and Research
Environmental Research and Technology



Stand: 2001-11-30



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Wednesday, December 5

- 08.00 – 09.00 Registration
- 09.00 – 09.20 Welcome addresses on behalf of the German Federal Ministry of Education and Research (BMBF) (Rieland)
- 09.20 – 10.20 Introducing presentation (E. Beck, V. Wolters)
- 10.20 – 10.50 Coffee Break
Alternative: Zentralregister biologischer Forschungssammlungen in Deutschland (ZEFOD) (S. Roscher) (computerdemonstration in room S 05)
- 10.50 – 12.10 **BIOLOG Europe**
Session I: Monitoring and Analysis of Complexity
Chair: V. Wolters, B. Reinhold-Hurek
- Biodiversity and the complexity of agricultural landscapes (T. Tschardt, 01LC0020) (25 min.)
 - Biodiversity dynamics of salt meadows: Ecological and economic perspectives (U. Schickhoff, 01LC0014) (25 min.)
 - Diversity of fungi in different habitats (L. Kriegelsteiner, 01LC0006) (15 min.)
15 min. discussion
- 12.10 – 13.30 Lunch
- 13.30 – 14.50 **BIOLOG Europe**
Session II: Experimental Approaches and Analysis of Processes
Chair: V. Wolters, B. Reinhold-Hurek
- Biodiversity and Ecosystem Function: Grassland as a Model System (W. Weisser, 01LC0013 + 01LC0014) (25 min.)
 - Microbial Diversity: Population Structure and Function (B. Reinhold-Hurek, 01LC0021) (25 min.)
 - Biological Invasions: Ecosystem change and evolutionary consequences (H. Hurka, 01LC0002 + 01LC0012) (20 min.)
10 min. discussion
- 14.50 – 15.20 Coffee Break
Alternative: GLOPP-Erysiphales: Presentation of Diversity Collection (M. Weiss) (in room S 05)
- 15.20 – 16.40 **BIOLOG Europe**
Session III: Temporal Dimension and Economic Perspectives
Chair: V. Wolters, B. Reinhold-Hurek
- Dynamics of biodiversity during primary succession (G. Wiegand, 01LC0018) (15 min.)
 - Dynamics of plants and soil animals over 20 years (H. Koehler, 01LC0005) (15 min.)
 - Reconstructing historical biodiversity from archival sources (B. Herrmann, 01LC0004) (15 min.)
 - Economic Perspectives on Biodiversity Conservation (R. Marggraf, 01LC0010 + 01LC0101 + 01LC0020) (20 min.)
15 min. discussion
- 16.40 – 17.00 Break
Alternative: GLOPP-Erysiphales: Processing of Erysiphales descriptive data (GLOPP-Project) as part of the LIAS Information system (C. Kainz) (in room S 05)
- 17.00 – 18.30 Poster Session (even No.)
- 18.30 – 20.00 Buffet on invitation of BMBF
- 20.00 – 21.30 **Evening Lecture:**
Welt im Wandel: ist die Natur unerschöpflich? (in German)
Prof. Dr. Elisabeth K. V. Kalko





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Thursday, December 6

09.00 – 10.20 **BIOLOG Biodiversity Informatics**

Session I: Biodiversity, Identification, and Innovative IT Techniques

Chair: G. Hagedorn

- Welcome and introduction to sub-programme on Biodiversity Informatics (W. Berendsohn)
 - Unknown biodiversity: exploring the uncharted terrain (M. Piepenbring)
 - Improving knowledge management, transfer, and workflow efficiency (G. Hagedorn)
 - A race against the time: biodiversity research using digital image analysis (V. Steinhage and S. Schröder)
 - Automated identification of bioacoustic signals (G. Palm)
 - Molecular identification methods and the importance of biodiversity informatics (W. Ludwig)
 - Conclusion (G. Hagedorn)
- Discussion*

10.20 – 10.50 Coffee Break

Alternative: GLOPP-Erysiphales: Processing of Erysiphales descriptive data (GLOPP-Project) as part of the LIAS Information system (C. Kainz) (computerdemonstration in room S 05)

10.50 – 12.10 **BIOLOG Biodiversity Informatics**

Session II: Life in Time and Space: Collections as Biodiversity Information Resources

Chair: D. Triebel

- Biodiversity and collections (W. Barthlott)
 - Providing effective access to collections - where to start? (D. Triebel)
 - Optimising work procedures in data capture and collection management (A. Hahn)
 - Closing the gap - linking collection data to applied research (K. Riede)
- Discussion*

12.10 – 13.30 Lunch

13.30 – 14.50 **BIOLOG Biodiversity Informatics**

Session III: Interoperability, Networking and International Context

Chair: W. Berendsohn

- XML Techniques in a distributed system with centralized external access (A. Kroupa)
 - Interoperability and networking: common aim, different approaches (W. Berendsohn)
 - The Global Biodiversity Information Facility (J. Edwards)
- Discussion*

14.50 – 15.20 Coffee Break

Alternative: EDIS-OBIF (Claus Wurst) (computerdemonstration in room S 05)

15.20 – 16.40 **BIOLOG Africa**

Session I: Introduction

Chair: N. Jürgens, C. Naumann, K. E. Linsenmair

- Introduction into BIOTA AFRICA (N. Jürgens) (20 min.)
 - BIOTA West Africa (K. E. Linsenmair) (15 min.)
 - BIOTA East Africa (C. Naumann) (15 min.)
 - BIOTA Southern Africa (B. Strohbach) (15 min.)
- 15 min. discussion*

16.40 – 17.00 Break

Alternative: Zentralregister biologischer Forschungssammlungen in Deutschland (ZEFOD) (S. Roscher) (computerdemonstration in room S 05)

17.00 – 18.30 Poster Session (uneven No.)

18.30 – 20.00 Break

20.00 – 21.30 **The International Framework of BIOLOG**

Chair: E. Beck

Podium: H. Ziegler (BMBF, IGFA), J. Edwards (GBIF), T. Hoffman (Africa), H. Korn (D/EU, EPBR), A. Larigauderie (DIVERSITAS)



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Friday, December 7

09.00 – 10.20

BIOLOG Africa

Session II:

Chair: N. Jürgens, C. Naumann, K. E. Linsenmair

- Introduction: N.N. (10 min.)
- Interactions between geodiversity and biodiversity: mapping spatial and temporal patterns across scales (G. Braun, W01, S01) (10 min.)
- GIS in support of BIOTA East Africa (G. Schaab, E02) (5 min.)
5 min. discussion for both talks
- Analysing African biodiversity at regional to continental scales (J. Mutke, W03) (15 min.)
5 min. discussion
- Micrometeorological monitoring within the framework of terrestrial biodiversity research (Parc National de la Comoé, Côte d'Ivoire) (J. Szarzynski, W02) (8 min.)
- Meteorology and surface fluxes of trace gases at the Kakamega Forest, Kenya: methods and first results (R. Steinbrecher, W. Junkermann, B. Rappenglück, M. Walsh, A. Awiti, E02) (8 min.)
4 min. discussion for both talks

Session III: Regional Groups:

Dynamic diversity within landscapes: patterns, processes, land use, impacts

- Diversity dynamics (K. E. Linsenmair, BIOTA West Africa) (10 min.)

10.20 – 10.50

Coffee Break

Alternative: ARB (Dr. Wolfgang Ludwig) (in room S 05)

10.50 – 12.10

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Session III (Continuation): Regional Groups:

Dynamic diversity within landscapes: patterns, processes, land use, impacts

Chair: N. Jürgens, C. Naumann, K. E. Linsenmair

- Standardised observatories as a tool for biodiversity monitoring (U. Schmiedel, S06) (10 min.)

BIOTA West Africa

- Biodiversity at the local scale: patterns and functional aspects (K. Hennenberg, N. Ebigbo, C. Kost, A. Kahlheber, K. Mody) (15 min.)
- Biodiversity at the landscape scale: different taxa - different patterns? (J. Fahr, D. Götze, M.-O. Rödel) (15 min.)
- From Sahel to Guinea Zone: the impact of land use on diversity patterns and dynamics (D. Götze, K. Hahn-Hadjali, K. König, A. Koulibaly, K. Langewiesche, K. Neumann, N. Schareika, M. Schmidt) (15 min.)
10 min. discussion for all 3 talks

BIOTA Southern Africa - I

- Functional zooidiversity in southern Africa under changing environments and land use (U. Zeller, S07) (15 min.)

12.10 – 13.30

Lunch

13.30 – 14.50

BIOLOG Africa

Session IV

Chair: N. Jürgens, C. Naumann, K. E. Linsenmair

BIOTA Southern Africa - II

- The role of soil features for biodiversity (G. Miehllich, S02) (15 min.)
- Diversity analysis of biological soil crusts (B. Büdel, S05) (15 min.)
(10 min. discussion for all 3 talks)

BIOTA East Africa - I

Fragmentation and ecosystem processes:

- Plant-pollinator interactions (M. Krämer, E10) (15 min.)
- Dispersal and regeneration (B. Bleher, K. Böhning-Gaese, E11) (15 min.)
5 min. discussion for both talks



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- 14.50 – 15.20 Coffee Break
Alternative: ARB (Dr. Wolfgang Ludwig) (computerdemonstration in room S 05)
- 15.20 – 16.40 **BIOLOG Africa**
Session V: Synthesis / Summary
Chair: N. Jürgens, C. Naumann, K. E. Linsenmair
BIOTA East Africa - II
- BIOTA Intracontinental - from East to West - (F.-T. Krell, E09, E08, E06)
(15 min.)
5 min. discussion
- BIOLOG Africa**
- Modelling: Population based modelling approaches in biodiversity research (F. Jeltsch, S09; O. Richter, S08) (20 min.)
5 min. discussion
 - Socio-economic questions: Land use, institutions and policies: linking socio-economics and bio-economic management to biodiversity (M. Kirk, I. Hoffmann, S11; R. Busmann, E12) (20 min.)
5 min. discussion
 - Synthesis & The route ahead (N. Jürgens) (10 min.)
5 min. discussion
- 16.40 – 17.00 Synthesis and Final Discussion

