

## Curriculum Vitae

**Andreas Ibrom**, Prof. Apl., Dr. rer. nat., Senior Research Scientist (03.10.1959)

Work: Technical University of Denmark (DTU), Department of Environmental Engineering, Bygningstorvet 115, 2800 Kgs. Lyngby, Denmark.

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### Education

1993 Dr. rer. nat. (equiv. to PhD in science), Institute of Bioclimatology (Georg August University, Göttingen GAUG) Germany, "Atmospheric deposition and nutrient leaching in forests".

1987 Dipl. Biologist (equivalent to M.Sc.), Institute for Systematics and Geobotany, GAUG,

### Current and most recent positions

Senior Research Scientist, Department of Environmental Engineering DTU (2015) - Senior Scientist and university teacher at the Department of Chemical and Biochemical Engineering, DTU (2012)- Senior Scientist, Biosystems Division, Risø DTU (2007) and Risø National Laboratory DTU (2004) - Associate Professor, GAUG (2001).

### Other scientific qualifications

2004: Apl. Professor for Bioclimatology Faculty of Forestry and Forest Ecology, GAUG

2000: Habilitation, Faculty of Forestry and Forest Ecology, GAUG. *Venia legendi*: Bioclimatology

1999, 2004: Marie Curie mobility fellowships (The University of Edinburgh and Risø National Laboratory for Sustainable Energy)

### Academic awards and honours

2012 WMO Norbert Gerbier- MUMM International Award 2012: "Climate control of terrestrial carbon exchange across biomes and continents" Env. Res. Lett. (2010)"

### Management experience

Head of different working groups with fluctuating numbers of post docs, PhD, technicians, M.Sc. and B.Sc. students.

*Current projects*: Steering group member and PI of the Danish contribution to the EU research infrastructure Integrated Carbon Observation System (ICOS), EU project RINGO "Readiness of ICOS for Necessities of Integrated Global Observations", Polish national project HOMING "Inside out: Linking intra-annual wood formation in mature trees to stand-level water and carbon cycling",

Norwegian EPA, greenhouse gas flux monitoring in re-naturalized bogs. PI for two long-term flux observation research facilities (DK-Sor and DK-RCW).

*Selected finished:* PI of the EU projects InGOS, CARBO-Extreme and MEDEFU, participant in large EU research and research infrastructure projects (EUROFLUX, CARBO-EUROPE, CARBO-EUROPE-IP, NitroEurope-IP, GHG-Europe, IMECC and InGOS), COST action MC member PROFOUND (FP1304). Danish national projects: ECOCLIM (Danish Independent Research Council, DFF), DFF-FNU project: 'Partitioning forest ecosystem respiration by application of novel isotope laser spectroscopy'.

### Scientific focus areas

*Biometeorology:* eddy covariance and turbulence research; long-term micrometeorology and GHG flux network research; 3D biophysical modelling of radiative transfer and canopy photosynthesis in forests canopies; deposition of atmospheric trace substances to terrestrial ecosystems.

*Ecosystems research:* Gas exchange with the atmosphere, ecosystem and soil carbon budgets and their components; nitrogen deposition and cycling in forests ecosystems; ecosystem manipulation experiments; dynamic ecosystem modelling; regional greenhouse gas balances

*Interdisciplinary, cross cultural research:* effects of tropical land-use and land-use change on ecosystem services; prediction of climate change impacts on natural resources

*Industrial Ecology teaching:* environmental sustainability concepts for industrial systems

### International relations

*Publication:* 91 peer-reviewed, international scientific publications in journals and books (80 ISI listed, H-index 31, 6814 times cited (Web of Science), 138 publications in ORCID (<http://orcid.org/0000-0002-1341-921X?lang=en>), 28.06.2019).

*Memberships and tasks:* European Geophysical Union member since 1996, session convener Air-Land Interactions since 2008, Associate Editor 'Biogeosciences', Peer review in > 20 international, scientific journals

*Networking:* PI of the global flux research network FLUXNET and the ESFRI Integrated Carbon Observation System (ICOS); Denmark's representative in the COST action PROFOUND

*Commissions:* External reviewer of theses, research and job applications for research organisations in Germany, Ireland (EPA), The Netherlands and Sweden (Swedish Research Council Formas). Chairman of Formas 'Global Change' research proposal assessment panel (since 2016).

### Supervision of students

GAUG: two post doctoral researchers, seven PhD students.

Risø and DTU: Four post doctoral researchers, seven PhD, one ongoing