

Programme
revised
13 April 2004

Ph.D. Course • Aquatic Ecology and Climate Change • 26-30 April 2004

Brorfelde Fieldstation, Tølløse, Denmark

	26 April	27 April	28 April	29 April	30 April
09:00 – 10:00		Global change and the large-scale ocean circulation <i>Jørgen Bendtsen</i>	Pelagic primary and secondary production along a mixing depth gradient: models and empirical data <i>Sebastian Diehl</i>	Climate, land use and runoff: A Danish perspective <i>Brian Kronvang</i>	Arctic and temperate lake sediment records as indicators of past climatic variability <i>John Andersson</i>
10:00 – 11:00		Seminar¹⁾ [A.] & [B.]	Seminar¹⁾ [C.] & [D.]	Seminar¹⁾ [E.] & [F.]	Seminar¹⁾ [G.]
11:00 – 12:00	Arrival	Using regional and local scale models of circulation and eutrophication for assessing climatic changes <i>Peter Rasch</i>	The impact of climate change on the dynamics of lake plankton communities <i>Glen George</i>	Microbial communities along a temperature gradient <i>Kirsten Christoffersen</i>	Construction of a conceptual model with the minimum process and interaction parameters linking climate and aquatic ecosystems <i>Morten Søndergaard</i>
12:00 – 13:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00 – 13:30	Introduction <i>Torkel Gissel Nielsen</i>	Impact of climate change on marine ecosystems <i>Gregory Beaugrand</i>	Biological structure and function of lakes in climate gradients <i>Erik Jeppesen</i>	Effects of climate change on fish distribution and dynamics in the North Atlantic <i>Keith Brander</i>	Departure
13:30 – 14:00	Establishment of groups <i>Morten Søndergaard</i>				
14:00 – 15:00	Modelling climate in the past, present and future <i>Ole Bøssing Christensen</i>	Impact of climate change on water column structure and productivity <i>Katherine Richardson</i>	Tropical lakes and climate change <i>Catherine M. O'Reilly</i>	Climate variability and cod production in the Baltic Sea <i>Brian MacKenzie</i>	
15:00 – 16:00	Implications of global change on atmospheric transport of contaminants to the Arctic <i>Jesper Christensen</i>	Seminar¹⁾ [B.] & [A.]	Seminar¹⁾ [D.] & [C.]	Seminar¹⁾ [F.] & [E.]	
16:00 – 17:00	Break	Potential implications of climate changes in the arctic pelagic food web <i>Torkel Gissel Nielsen</i>		Climate variability and sprat production in the Baltic Sea <i>Brian MacKenzie</i>	
18:00 – 19:00	Dinner	Dinner	Dinner	Dinner	
20:00 -	Greenland Ice core projects <i>Dorthe Dahl-Jensen</i>	Student presentations²⁾	Student presentations²⁾	Student presentations²⁾	

¹⁾ Seminars:	[A.] Box model of the thermohaline circulation, computer demonstration	<i>Jørgen Bendtsen</i>
	[B.] Monitoring marine ecosystems (selection of variables, numerical techniques, sampling strategies)	<i>Gregory Beaugrand</i>
	[C.] Physical limnology; impact of climate change on lakes, airborne remote sensing and catchment processes	<i>Glen George</i>
	[D.] Modelling the influence of mixing depth on plankton dynamics - computer exercise and demonstration	<i>Sebastian Diehl</i>
	[E.] Incorporating environmental information into fisheries assessments and management advice	<i>Brian MacKenzie/Keith Brander</i>
	[F.] <i>To be announced</i>	
	[G.] Scaling the effects of climate versus land-use change on lake communities: the role of variance partitioning	<i>John Andersson</i>

²⁾ The students are expected to prepare a 15-minute presentation of their Ph.D. project.