

# CURRICULUM VITAE

- Name: Kristofer Döös
- Citizenship: Swedish
- Birthplace and date of birth: Stockholm 12 July 1959.
- Elementary school: Ecole Moser, Genève, 1970-1974
- Secondary School: Sigtunastiftelsens Humanistiska Läroverk, 1974-1978

## Degrees:

- Master of Science in oceanography at Stockholm University and at University of Göteborg in October 1983.
- Diplôme d'études approfondies en océanologie et météorologie at Université de Pierre et Marie Curie in Paris in October 1984.
- Ph.D. in oceanography at Université de Pierre et Marie Curie in Paris the 13 January 1989. Title: Etude numérique de la variabilité saisonnière dans l'océan Atlantique tropicale.
- Docent (associate professor) of physical oceanography, Stockholm University, February 2002.
- Professor of climate modelling, Stockholm University, January 2010.

## University studies:

- Mathematics (60 credits) and physics (60 credits) at Stockholm University 1978-81.
- Oceanography (120 credits) at University of Göteborg 1981-1983.
- Oceanography and meteorology at Université de Pierre et Marie Curie in Paris 1983-1984.
- Postgraduate studies in oceanography at Muséum National d'Histoire Naturelle and Université de Pierre et Marie Curie in Paris 1984-1988.

## Employments:

- High Scientific Officer at the Institute of Oceanographic Sciences Deacon Laboratory in Wormley, UK. The overall responsibilities was to carry out original research making use of the FRAM (Fine Resolution Antarctic Model) data. September 1990 to August 1995.
- Senior Scientific Officer at SOC (Southampton Oceanography Centre) in Southampton, UK. The overall responsibilities was to carry out original research making use of the OCCAM (Ocean Climate Circulation Advanced Modelling). September 1995 to June 1997.
- Researcher as associate professor at the Department of Meteorology, Stockholm University, main activities: research and teaching. June 1997- February 2008.
- Lecturer in climate modelling at the Department of Meteorology, Stockholm University, main activities: climate modelling and lecturing. March 2008 - December 2009.
- Professor of climate modelling at the Department of Meteorology financed by the Bert Bolin Centre for Climate Research, Stockholm University. Main activities: research, supervising and lecturing. Since January 2010.

**Visiting scientist at:**

- Laboratoire de Physique des Océans at Université de Bretagne Occidentale. July-August 1998, 2000, 2001
- IFREMER (Institut Français de Recherche pour l'Exploitation de la Mer). August 1996-February 1997
- Peking University. April-May 2011
- Centre for Australian Weather and Climate Research. Hobart, Australia December 2011-February 2012

**Assignments:**

- Coordinator of the EU project TRACMASS (Tracing the Water Masses of the North Atlantic and the Mediterranean). 1998-2001.
- Board member of Stockholm Water Foundation. 2000-2002.
- Guest professor at Université de Bretagne Occidentale. 2001
- Board member of Stockholmspartiet, 2002-2004.
- Member Scientific Committee on Oceanic Research (SCOR) WG 111, since 2002
- Topic editor for Ocean Science, 2004-2009.
- Chairman of the computer group at the Department of Meteorology, 2004-2006.

**Teaching:**

- Course in "numerical modelling in meteorology and oceanography" at the Department of Meteorology, Stockholm University. Every year since 1998.
- Course in "Large scale ocean and atmospheric circulation". 2009-2010.
- Course in Physical oceanography. 2008-2011.
- Course in numerical modelling of the ocean and the atmosphere at the Royal Institute of Technology (KTH)
- Course in ocean waves at the Department of Physics, Stockholm University
- Guest lectures at Université de Bretagne Occidentale
- PhD students and master students theses

**Supervision of doctoral students:**

- Bror Jönsson (dissertation 13 May 2005)
- Moundeur Zarroug (dissertation 23 April 2010)
- Hanna Corell (dissertation 1 June 2012)
- Maxime Ballarotta (dissertation 24 May 2013)
- Sebastian Mårtensson (since June 2006)
- Joakim Kjellson (since September 2009)
- Magnus Nilsson (since September 2010)

### **Supervision of students:**

- Claire Bouligand, Ecole Nationale Supérieure, Lyon, France, Tracing the North Atlantic Deep Water. June-August 1999
- Fredrik Bergholm, KTH, Open boundary Conditions: Shallow Water Waves. 2000
- Anna Österman, MISU, Öppna randvilkor i en barotrop shallow water-modell av Östersjön, January-June 2004
- Kim Hultin, MISU, Parameterisering av vindstress i en barotrop shallow-water modell, January-June 2004
- Olov Danielson, Uppsala universitet, Flux-Corrected Ocean Tracer Transport, January-June 2004
- Jonas Haulin, Uppsala universitet, Flux-Corrected Ocean Tracer Transport, January-June 2004
- Hanna Kling, Uppsala universitet, Lagrangian sedimentation modeling in the Baltic, August 2004-January 2005
- Sebastian Mårtensson, MISU, The spiraling Antarctic Circumpolar Current, January-June 2006
- Joke Lübbecke, University of Kiel, Lagrangian decomposition of the North Pacific Subtropical Cell January-June 2006
- Maxime Ballarotta, Université de Bordeaux, Arctic Ocean State during Paleolithic, March-August 2008

### **Supervision of post-docs:**

- Donatella Faggioli 1999-2000
- Pedro de Vries 1999-2001

### **Member of examination boards**

Licentiat dissertations:

- Nedjeljka Brzovic, Stockholm University, 13 January 2002
- Pia Hultgren, Stockholm University, 10 June 2002
- Tomas Mårtensson, Stockholm University, 10 June 2004

Doctoral dissertations:

- Mattias Green, University of Göteborg, 27 February, 2004
- Olof Dahl, University of Göteborg, 31 May, 2006

### **External research grants**

- Commissioned research funded by the Hadley Centre, Met. Office, U.K. Sub-grid parameterisation for ocean models and the effects of resolution. See reports 1, 2 and 3. 1993-1995.
- EU project TRACMASS (Tracing the Water Masses of the North Atlantic and the Mediterranean). 1998-2001. Funding: 1,000,000 Eur for five partners.
- Swedish regional climate modelling programme (SweClim-MISTRA) 1997-2003, 50% of my salary
- Naturvårdsverket, 1998, Modellering och mätning av strömmarna i Östersjön. 100,000 SEK

- EU project Meridional Overturning Exchange with the Nordic Seas (MOEN) 2003-2005, 50% of my salary
- Vetenskapsrådet, 2003-2005: Tracing the global water cycle with Lagrangian trajectories using a coupled ocean-land-atmosphere circulation model and evaluating the possible consequences of an increased greenhouse effect. 1,216,800 SEK
- SKB (Swedish Nuclear Fuel and Waste Management Company), 2006-2007
- Vetenskapsrådet, 2006-2008: The influence of the heat transports by the large-scale ocean currents on the anthropogenically induced global climatic change and how well they are simulated in present climate models, 50% of my salary
- Vetenskapsrådet, 2006-2008: Demographic and genetic connectivity of marine populations: oceanographic and biological modelling of dispersal, 25% of my salary
- EU-Bonus project BalticWay, 2008-2011: 303000 Euros
- EU-Bonus project BaltGene, 2008-2011

**Fieldwork experience:**

- Participated in First GARP Global Experiment on board R/V Discoverer (NOAA), Jan-Feb 1979
- Deployment of 10 surface drifters in the Baltic Sea from M/S Silja Festival at 4 different occasions between 2010 and 2011.

**Languages:**

- Swedish, mother tongue
- English, working language, former British civil servant
- French, fluent and spoken since the age of 11