

## SHORT CV

### Professor Gary Shaffer

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Concepción, Chile  
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Born May 11, 1947 in Windber, Pennsylvania, USA. USA citizen.  
Languages: English, Spanish, Swedish, German and Danish

### Education

- 1969 Bachelor of Science degree in Physics, Pennsylvania State University, USA.
- 1972 Diplom Ozeanograf (Masters) degree in Physical Oceanography, Kiel University, Germany.
- 1974 Dr. rer. nat. (Ph. D) degree in Oceanography, Kiel University, Germany

### Positions held

- 1974-1978 Research Assistant Professor, Oceanographic Inst., Gothenburg University, Sweden.
- 1978-1990 Research Associate Professor, Oceanographic Inst., Gothenburg University.
- 1988,1989 Visiting Senior Research Scientist, Programme for Atmospheric and Oceanic Sciences, Princeton University, USA (May to July 1988 and August to October 1989).
- 1990-1992 Research Professor, Oceanographic Inst., Gothenburg University.
- 1992-1997 Professor, Niels Bohr Institute, University of Copenhagen, Denmark.
- 1997-2002 Professor and Founding Director, Danish Center for Earth System Science, University of Copenhagen.
- 2002- Professor, Niels Bohr Institute, University of Copenhagen (3/4 time from 2004).
- 2003- Director, Danish Center for Earth System Science
- 2004 - Senior scientist, Department of Geophysics, University of Concepcion, Chile (1/4 time).

### Principle research activities

Modeling Earth System interactions including ocean circulation and biogeochemical cycling and atmospheric greenhouse gas concentrations. Projections of future Earth system change and simulations of past climate change. Investigation of possible mechanisms for and controls of rapid climate change. Field and modeling studies of ocean circulation, carbon cycling and coastal dynamics in the South Pacific Ocean.

## **Recent major research projects**

- 1994-1999 The Ocean and Climate Change, Danish Natural Science Research Council,  
Total funding 5 500 000 DKK
- 1997-2002 Danish Center for Earth System Science (DCESS), Danish Research Foundation,  
Total funding 50 000 000 DKK
- 2003- Development and applications of the DCESS Earth System Model
- 2004-2006 A prediction system for ocean conditions off Chile, Fundacion Andes/Universidad de  
Concepcion, Total funding 156 200 USD
- 2007-2008 Circulation and oceanic teleconnections in the eastern South Pacific Ocean, Danish  
Natural Science Research Council, Total funding 471 000 DKK

## **Principle teaching activities**

Graduate and undergraduate courses in oceanography and climate at the University of Copenhagen and Universidad de Concepcion. Advisor for two successful Ph.D. students since 2001 and for five successful Masters students and three more successful Ph D students degrees since 1997.

## **Danish-Chilean collaboration**

Extensive research collaboration with Chilean scientists during the last 25 years (the last 16 of which from my Danish base). A total of 13 joint international publications since 1995 from this collaboration. See <http://www.dgeo.udec.cl/extension.htm> for a 10-minute video from 2004 on this collaboration.