

# Curriculum Vitae

Hezi Gildor

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## Education

2001-present: Post-doctoral fellow, Lamont-Doherty Earth Observatory of Columbia University (NOAA Postdoctoral Fellowship in Climate and Global Change).

1996-2001, Ph. D. in Environmental Sciences: The Weizmann Institute of Science, Israel. Thesis title: **Dynamics of glacial-interglacial cycles: the "sea ice switch" and the role of ocean biogeochemistry**. Adviser: Prof. Eli Tziperman.

1994-1996, M. Sc. in Physical Oceanography: The University of Tokyo, Japan. Thesis title: **Modeling interannual variations of the Indonesian Throughflow using ERS-1 Satellite Wind**. Adviser: Prof. Toshio Yamagata.

1991-1993, B. Sc. in Geophysics and Atmospheric Sciences: Tel-Aviv University, Israel.

## Additional research experience and courses

8/1997: Les Houches summer school of theoretical physics, France, "Modeling the earth's climate and its variability".

## Teaching experience

1998-2000: Lecturer in physical oceanography, Tel-Aviv University.

2002: Invited lecturer, NATO Advanced Study Institute on **The ocean carbon cycle and climate**, 5-16 August, Turkey.

## Awards and Honors

2001: NOAA Postdoctoral Fellowship in Climate and Global Change.

2001: John F. Kennedy Memorial Prize for outstanding research work (highest prize at the Weizmann Institute).

1994-1996: Fellow student of the Japanese government.

## Languages

Hebrew (Native speaker), English (fluent), Japanese (fair).

## Refereed articles

1. Gildor, H., and E. Tziperman, Sea ice as the glacial cycles' climate switch: Role of seasonal and orbital forcing, *Paleoceanography*, 15, 605-615, 2000.
2. Gildor, H., and E. Tziperman, A sea ice climate switch mechanism for the 100-kyr glacial cycles, *J. Geophys. Res.*, 106, 9117-9133, 2001.
3. Gildor, H., and E. Tziperman, Physical mechanisms behind biogeochemical glacial-interglacial  $CO_2$  variations, *Geophys. Res. Lett.*, 28, 2421-2424, 2001.
4. Gildor, H., and M. Ghil, Phase relations between climate proxy records: Potential effect of seasonal precipitation changes, *Geophys. Res. Lett.*, 10.1029/2001GL013781, 2002.
5. Gildor, H., E. Tziperman, and J.R. Toggweiler, Sea ice switch mechanism and glacial-interglacial  $CO_2$  variations, *Global Biogeochem. Cycles*, 16, 10.1029/2001GB001446, 2002.
6. Tziperman, E. and H. Gildor, The stabilization of the thermohaline circulation by the temperature-precipitation feedback, *J. Phys. Oceanogr.*, 32, 2704-2714, 2002.
7. Crosta, X., A. Shemesh, M.E. Salvignac, H. Gildor, and R. Yam, Late Quaternary variations of elemental ratio (C/Si and N/Si) in diatom-bound organic matter from the Southern Ocean, *Deep Sea Research Part II*, 49(9-10), 1939-1952, 2002.
8. Tziperman, E. and H. Gildor, The mid-Pleistocene 41 kyr to 100 kyr glacial cycle transition, and the source of asymmetry between glaciation and deglaciation times, *Paleoceanography*, 18, 10.1029/2001PA000627.
9. Timmermann, A., H. Gildor, M. Schulz, and E. Tziperman, Coherent resonant millennial-scale climate oscillations triggered by glacial meltwater pulses, *J. Climate*, in press.
10. Gildor, H., A.H. Sobel, M.A. Cane, and R.N. Sambrotto, A role for ocean biota in the genesis of tropical intraseasonal atmospheric variability, *Geophys. Res. Lett.*, 30, 1460, 10.1029/2002GL016759, 2003.

## Reviewed proceedings

1. Gildor, H., and E. Tziperman, Sea ice, the glacial cycles' climate switch, and interhemispheric thermohaline teleconnections, *Annals of Glaciology*, 33, 501-506, 2001.

### **Invited (refereed) article**

1. Gildor, H. and M. Follows, Two-way interactions between ocean biota and climate mediated by biogeochemical cycles, *Israel Journal of Chemistry*, 42, 15-27.

### **Book chapter**

1. Glacial-interglacial  $CO_2$  variations, NATO Advanced Study Institute Series, Kluwer Academic Publishers, submitted.