**Eileen E. Hofmann**

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**I. Professional Preparation:**

Chestnut Hill College Biology B.S., 1974

North Carolina State University Physical Oceanography M.S., 1976

North Carolina State University Marine Sciences and Engineering Ph.D., 1980

**II. Appointments**

*July 1995 - present*

Professor, Center for Coastal Physical Oceanography, Dept. of Ocean, Earth and Atmospheric

Sciences, Old Dominion University

*Sept. 1989 - June 1995*

Associate Professor, Department of Oceanography, Old Dominion University

*Sept. 1986 - Aug. 1989*

Assistant Professor, Department of Oceanography, Texas A&M University

*Jan. 1981 - Aug. 1986*

Assistant Research Scientist, Department of Oceanography, Texas A&M University

*Dec. 1979 – Jan. 1981*

Postdoctoral Research Associate, NCSU/Florida State University

*Sept. 1974 - Nov. 1979*

Teaching Assistant, North Carolina State University; Research Assistant, North Carolina State

University; Graduate Research Assistant, Skidaway Institute of Oceanography

**III. Research Interests and Expertise**

Analysis and modeling of biological and physical interactions in marine ecosystems and

descriptive physical oceanography.

**IV. Publications - Last Five Years:**

Hofmann, E.E. and E.J. Murphy, 2004. Advection, krill and Antarctic marine ecosystems.

*Antarctic Science*, 16, 487-499.

Hofmann, E.E., E.N. Powell, E.A. Bochenek and J.M. Klinck, 2004. A Modelling Study of the

Influence of Environment and Food Supply on Survival of *Crassostrea gigas* Larvae, *ICES Journal of Marine Science*, 61/4, 596-616.

Hofmann, E.E., P.H. Wiebe, D.P. Costa and J.J. Torres, 2004. An overview of the Southern

Ocean Global Ocean Ecosystems Dynamics Program. *Deep-Sea Research II*, 51, 1921-924.

Klinck, J.M., E.E. Hofmann, R.C. Beardsley, B. Salihoglu and S. Howard, 2004. Water mass

properties and circulation on the west Antarctic Peninsula continental shelf in austral fall and

winter 2001, *Deep-Sea Research II*, 51, 1925-1946.

Powell, E.N., E.A. Bochenek, J.M. Klinck and E.E. Hofmann, 2004. Influence of ShorttermVariation

in Food on Survival of *Crassostrea gigas* Larvae: A Modeling Study, *Journal*

*of Marine Research*, 62,117-152.

Prézelin, B.B., E.E. Hofmann, M. Moline and J.M. Klinck, 2004. Physical forcing of

phytoplankton community structure and primary production in continental shelf waters of the

western Antarctic Peninsula. *Journal of Marine Research*, 62, 419-460.

Hofmann, E.E. and Y.S. Hüsrevoğlu, 2003. A circumpolar modeling study of habitat control of

Antarctic krill (*Euphausia superba*) reproductive success, *Deep-Sea Research II*, 50, 3121-

3142.

Powell, E.N., J.M. Klinck, E.E. Hofmann, and M.M. Dekshenieks, 2003. The Influence of

Water Allocation and Freshwater Inflow on Oyster Populations: A Hydrodynamic-Oyster

Population Model for Galveston Bay, Texas. *Environmental Management*, 31, 100-121.

Fach, B.A., E.E. Hofmann and E.E. Murphy, 2002. Modeling studies of Antarctic krill

(*Euphausia superba*) survival during transport across the Scotia Sea, *Marine Ecology*

*Progress Series*, 231, 187-203.

Klinck, J.M., E.N. Powell, E.E. Hofmann and M.M. Dekshenieks, 2002. Impact of

Channelization on Oyster Production: A Hydrodynamic-Oyster Population Model for

Galveston Bay, Texas, *Environmental Modeling Assessment*, 7, 273-289.

Powell, E.N., E.A. Bochenek, J.M. Klinck and E.E. Hofmann, 2002. Influence of Food Quality

and Quantity on the Growth and Development of *Crassostrea gigas* Larvae: A Modeling

Study, *Aquaculture*, 210, 89-117.

Bochenek, E.A., J.M. Klinck, E.N. Powell and E.E. Hofmann, 2001. A Biochemically Based

Model of the Growth and Development of *Crassostrea gigas* Larvae, *Journal of Shellfish*

*Research*, 20, 243-265.

Hofmann, E.E., S.E. Ford, E.N. Powell and J.M. Klinck, 2001. Modeling Studies of the Effect of

Climate Variability on MSX Disease in Eastern Oyster (*Crassostrea virginica*) Populations,

*Hydrobiologia*, 460, 195-212.

Salihoğlu, B., W.R. Fraser and E.E. Hofmann, 2001. Factors affecting the fledging weight of

Adélie penguin (*Pygoscelis adeliae*) chicks: A modeling study. *Polar Biology*, 24, 328-337.

3

Hofmann, E.E. and C.M. Lascara, 2000. Modeling the Growth Dynamics of Antarctic Krill

*Euphausia superba*, *Marine Ecology Progress Series*, 194, 219-231.

Prézelin, B.B., E.E. Hofmann, C. Mengelt and J.M. Klinck, 2000. The linkage between Upper

Circumpolar Deep Water (UCDW) and phytoplankton assemblages on the west Antarctic

Peninsula continental shelf, *Journal Marine Research*, 58, 1-38.

**V. Synergistic Activities**

Ex-Officio Member, U.S. GLOBEC Science Steering Committee; Ex-Officio Member,

International GLOBEC Science Steering Committee; Chairman, International GLOBEC

Southern Ocean Planning Group; Chairman, U.S. Southern Ocean GLOBEC Executive

Committee; Member, Chesapeake Research Consortium, Community Model Science Steering

Committee; Member, National Research Council Committee on Metrics for Global Change

Research: Member, UNOLS Council; Editor, *Antarctic Science*; Editor, *Dynamics of*

*Atmospheres and Oceans*; Editor, *Journal Marine Research*; Editor, *Journal of Cetacean*

*Research and Management*; Review Staff, *Marine Ecology Progress Series*

**VI. Collaborators and Other Affiliations**

**(*a) Collaborators and co-authors***. E. Powell, J. Kreauter & S. Ford, Rutgers University; W.

Smith, VIMS; B. Prézelin, UCSB; M. Bricelj, NRC, Canada; R. Grizzle, UNH; W. Fraser, Polar

Oceans Research Group; C. McClain & A. Mannino, NASA GSFC; A. Busalacchi & R.

Murtugudde, UMD, J. Wilkin & D. Haidvogel, Rutgers University; J. O’Reilly, URI/NOAA; C.

Lee, Stony Brook Univ.; R. Beardsley, WHOI; C. Ribic, Univ. Wisconsin; D. Costa, Univ.

California-Santa Cruz

***(b) Graduate and Post-Doctoral Advisors***. L. Pietrafesa (Ph.D. Advisor); J.J. O'Brien

(Postdoctoral Advisor)

***(c) Students and Post-Graduate Scholars***. *Postdoctoral Advisees*: Julie Ambler, Jerry Wiggert;

*Ph.D. Advisees*: Joji Ishizaka, Donald Eliason, Jorge Capella, John Moisan, Margaret

(Dekshenieks) McManus, Cathy Lascara, James Koziana, Marjorie Friedrichs, Tonya Clayton,

Bettina Fach, Hae-Cheol Kim, Baris