

Joseph Pedlosky

Senior Scientist

Doherty Professor of Oceanography

Geophysical Fluid Dynamicist

Department of Physical Oceanography

Woods Hole Oceanographic Institution

Birth: April 7, 1938

B.Sc., Massachusetts Institute of Technology, 1960

M.Sc., Massachusetts Institute of Technology, 1960

Ph.D., Massachusetts Institute of Technology, 1963

Research Engineer, summer 1958, M.I.T. Naval Supersonics Laboratory

Sponsored Research Staff, 1959 & 1961, Massachusetts Institute of Technology

Summer Fellowship in Geophysical Fluid Dynamics, 1960, 1962, W.H.O.I.

Fulbright Fellowship, 1961–62, International Institute of Meteorology, Stockholm

Assistant Professor, 1963–67; Associate Professor, 1967–68, Department of Mathematics, M.I.T.

Sloan Foundation Fellowship, 1967–68, Visitor, Department of Mathematics, Imperial College, London

Associate Professor of Meteorology, 1968–72; Professor of Geophysical Fluid Dynamics, 1972–79, Department of Geophysical Sciences, The University of Chicago

Guggenheim Fellow, Guest Investigator, 1977–78; Senior Scientist and Doherty Professor of Oceanography, 1979–, Woods Hole Oceanographic Institution

Visiting Scientist, Istituto per lo Studio delle Grandi Masse, Venice, 1984–85, 1994–95

Visiting Scientist, University of Washington as JISAO (Joint Institute for Study of the Atmosphere and Ocean) Distinguished Scientist, January, 1988

Meisinger Award, American Meteorological Society, 1970

Fellow, American Meteorological Society, 1981

Member, National Academy of Sciences, 1985

Member, Scientific Advisory Committee, 1975–79; Scientific Program Evaluation Committee, 1980–81, National Center for Atmospheric Research

Member, Committee on Atmospheric Science, National Academy of Sciences, 1976–79

Fellow, American Geophysical Union, 1986

Fulbright Fellow, 1994–95

Victor Starr Lecturer (M.I.T.), 1995

Member, American Academy of Arts and Sciences, 1996

Fellow, American Association for Advancement of Science, 1997

Foreign Member, Earth & Cosmic Sciences Section of Academia Europaea, 2000

Research Interests: Baroclinic instability and general stability problems in fluid dynamics; nonlinear dynamics of finite amplitude waves; general circulation of the ocean, especially mid-latitude gyres; geophysical fluid dynamics; equatorial oceanic circulation, abyssal ocean circulation.

Author or co-author of about 116 refereed publications.

December, 2001

Publications

- Pedlosky, Joseph, 1962. Spectral considerations in two-dimensional incompressible flow. *Tellus*, **14**, 125–132.
- Pedlosky, Joseph, 1963. Baroclinic instability in two-layer systems. *Tellus*, **15**, 20–25.
- Charney, Jule G., and Joseph Pedlosky, 1963. On the trapping of unstable planetary waves in the atmosphere. *Journal of Geophysical Research*, **68**, 6441–6442.
- Pedlosky, Joseph, 1964. The stability of currents in the atmosphere and the ocean. Part I. *Journal of the Atmospheric Sciences*, **21**, 201–219.
- Pedlosky, Joseph, 1964. The stability of currents in the atmosphere and the ocean. Part II. *Journal of the Atmospheric Sciences*, **21**, 342–353.
- Pedlosky, Joseph, 1964. An initial value problem in the theory of baroclinic instability. *Tellus*, **16**, 12–17.
- Pedlosky, Joseph, 1965. On the stability of baroclinic flows as a functional of the velocity profile. *Journal of the Atmospheric Sciences*, **22**, 137–145.
- Pedlosky, Joseph, 1965. A note on the western intensification of the oceanic circulation. *Journal of Marine Research*, **23**, 207–209.
- Pedlosky, Joseph, 1965. A necessary condition for the existence of an inertial boundary layer in a baroclinic ocean. *Journal of Marine Research*, **23**, 69–72.
- Pedlosky, Joseph, 1965. A study of the time dependent ocean circulation. *Journal of the Atmospheric Sciences*, **22**, 267–272.
- Pedlosky, Joseph, and H. P. Greenspan, 1967. A simple laboratory model for the oceanic circulation. *Journal of Fluid Mechanics*, **27**, 291–304.
- Pedlosky, Joseph, 1967. Fluctuating winds and the ocean circulation. *Tellus*, **19**, 250–257.
- Pedlosky, Joseph, 1967. The spin up of a stratified fluid. *Journal of Fluid Mechanics*, **28**, 463–480.
- Barcilon, V., and Joseph Pedlosky, 1967. Linear theory of rotating stratified fluid motions. *Journal of Fluid Mechanics*, **29**, 1–16.
- Barcilon, V., and Joseph Pedlosky, 1967. A unified theory of homogeneous and stratified rotating fluids. *Journal of Fluid Mechanics*, **29**, 609–621.

- Barcilon, V., and Joseph Pedlosky, 1967. On the steady motions produced by a stable stratification in a rapidly rotating fluid. *Journal of Fluid Mechanics*, **29**, 673–690.
- Pedlosky, Joseph, 1968. An overlooked aspect of the wind-driven oceanic circulation. *Journal of Fluid Mechanics*, **32**, 809–821.
- Pedlosky, Joseph, 1968. Linear theory of the circulation of a stratified ocean. *Journal of Fluid Mechanics*, **35**, 185–205.
- Pedlosky, Joseph, 1969. Axially symmetric motion of stratified, rotating fluid in a spherical annulus of narrow gap. *Journal of Fluid Mechanics*, **36**, 401–415.
- Pedlosky, Joseph, 1970. Finite-amplitude baroclinic waves. *Journal of the Atmospheric Sciences*, **27**, 15–30.
- Pedlosky, Joseph, 1971. A note on the role of the buoyancy layer in a rotating stratified fluid. *Journal of Fluid Mechanics*, **48**, 181–182.
- Pedlosky, Joseph, 1971. Finite-amplitude baroclinic waves with small dissipation. *Journal of the Atmospheric Sciences*, **28**, 587–597.
- Pedlosky, Joseph, 1972. Limit cycles and unstable baroclinic waves. *Journal of the Atmospheric Sciences*, **29**, 53–63.
- Pedlosky, Joseph, 1972. Finite-amplitude baroclinic wave packets. *Journal of the Atmospheric Sciences*, **29**, 680–686.
- Pedlosky, Joseph, 1974. On coastal jets and upwelling in bounded basins. *Journal of Physical Oceanography*, **4**, 3–18.
- Pedlosky, Joseph, 1974. Longshore currents, upwelling and bottom topography. *Journal of Physical Oceanography*, **4**, 214–226.
- Pedlosky, Joseph, 1974. Longshore currents and the onset of upwelling over bottom slope. *Journal of Physical Oceanography*, **4**, 310–320.
- Pedlosky, Joseph, 1975. The development of thermal anomalies in a coupled ocean-atmosphere model. *Journal of the Atmospheric Sciences*, **32**, 1501–1514.
- Pedlosky, Joseph, 1975. Reply to R. K. Smith's note on vacillating baroclinic waves. *Journal of the Atmospheric Sciences*, **32**, 2027.
- Pedlosky, Joseph, 1975. A note on the amplitude of baroclinic waves in the mid-ocean. *Deep-Sea Research*, **22**, 575–576.
- Pedlosky, Joseph, 1975. On secondary baroclinic instability and the meridional scale of motion in the ocean. *Journal of Physical Oceanography*, **5**, 603–607.

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- Pedlosky, Joseph, 1976. On the dynamics of finite amplitude baroclinic waves as a function of supercriticality. *Journal of Fluid Mechanics*, **78**, part 3, 621–637.
- Pedlosky, Joseph, 1977. On the radiation of meso-scale energy in the mid-ocean. *Deep-Sea Research*, **24**, 591–600.
- Pedlosky, Joseph, 1977. A model of wave amplitude vacillation. *Journal of the Atmospheric Sciences*, **34**, 1898–1912.
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- Pedlosky, Joseph, 1978. A nonlinear model of the onset of upwelling. *Journal of Physical Oceanography*, **8**, 178–187.
- Pedlosky, Joseph, 1979. Finite amplitude baroclinic waves in a continuous model of the atmosphere. *Journal of the Atmospheric Sciences*, **36**, 1908–1924.
- Pedlosky, Joseph, and Christopher Frenzen, 1980. Chaotic and periodic behavior of finite amplitude baroclinic waves. *Journal of the Atmospheric Sciences*, **37**(6), 1177–1196.
- Pedlosky, Joseph, 1980. The destabilization of shear flow by topography. *Journal of Physical Oceanography*, **10**(11), 1877–1880.
- Pedlosky, Joseph, 1981. The nonlinear dynamics of baroclinic wave ensembles. *Journal of Fluid Mechanics*, **102**, 169–209.
- Pedlosky, Joseph, 1981. The effect of β on the chaotic behavior of unstable baroclinic waves. *Journal of the Atmospheric Sciences*, **38**(4), 717–731.
- Pedlosky, Joseph, 1981. Resonant topographic waves in barotropic and baroclinic flows. *Journal of the Atmospheric Sciences*, **38**(12), 2626–2641.
- Pedlosky, Joseph, 1982. Finite-amplitude baroclinic waves at minimum critical shear. *Journal of the Atmospheric Sciences*, **39**(3), 555–562.
- Pedlosky, Joseph, 1982. A simple model for nonlinear critical layers in an unstable baroclinic wave. *Journal of the Atmospheric Sciences*, **39**(10), 2119–2127.
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- Pedlosky, Joseph, 1983. Eastern boundary ventilation and the structure of the thermocline. *Journal of Physical Oceanography*, **13**(11), 2038–2044.
- Pedlosky, Joseph, 1983. On the relative importance of ventilation and mixing of potential vorticity in mid-ocean gyres. *Journal of Physical Oceanography*, **13**(11), 2121–2122.
- Pedlosky, Joseph, 1984. The equations for geostrophic motion in the ocean. *Journal of Physical Oceanography*, **14**(2), 448–455.
- Pedlosky, Joseph, 1984. Cross-gyre ventilation of the subtropical gyre: An internal mode in the ventilated thermocline. *Journal of Physical Oceanography*, **14**(7), 1172–1178.
- Pedlosky, Joseph, Wendy Smith, and James R. Luyten, 1984. On the dynamics of the coupled mixed layer – thermocline system and the determination of the oceanic surface density. *Journal of Physical Oceanography*, **14**(7), 1159–1171.
- Pedlosky, Joseph, 1984. On the circulation of the warm water of the subtropical gyres. *Journal of Physical Oceanography*, **14**(12), 1949–1954.
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- Pedlosky, Joseph, 1986. The buoyancy and wind-driven ventilated thermocline. *Journal of Physical Oceanography*, **16**(6), 1077–1087.
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- Pedlosky, Joseph, 1991. The link between western boundary currents and the equatorial undercurrent. *Journal of Physical Oceanography*, **21**(10), 1553–1558.
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- Pedlosky, Joseph, and Paul M. Robbins, 1991. The role of finite mixed-layer thickness in the structure of the ventilated thermocline. *Journal of Physical Oceanography*, **21**(7), 1018–1031.

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- Pedlosky, Joseph, 1994. Ridges and recirculations: Gaps and jets. *Journal of Physical Oceanography*, **24**(12), 2703–2707.
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- Edwards, Christopher A., and Joseph Pedlosky, 1995. The influence of distributed sources and upwelling on the baroclinic structure of the abyssal circulation. *Journal of Physical Oceanography*, **25**(10), 2259–2284.
- Kamenkovich, Igor V., and Joseph Pedlosky, 1996. Radiating instability of nonzonal ocean currents. *Journal of Physical Oceanography*, **26**(4), 622–643.
- Kamenkovich, Igor V., and Joseph Pedlosky, 1996. On the correct matching and boundary conditions for a radiating broken-line current. *Journal of Physical Oceanography*, **26**(8), 1664–1665.
- Pedlosky, Joseph, 1996. Baroclinic abyssal flow in the presence of a peninsula. *Journal of Physical Oceanography*, **26**(10), 2230–2242.
- Pedlosky, J., J. A. Whitehead and Graham Veitch, 1997. Thermally driven motions in a rotating stratified fluid: Theory and experiment. *Journal of Fluid Mechanics*, **339**, 391–411.
- Pedlosky, Joseph, Lawrence J. Pratt, Michael A. Spall, and Karl R. Helfrich, 1997. Circulation around islands and ridges. *Journal of Marine Research*, **55**, 1199–1251.
- Kamenkovich, Igor V., and Joseph Pedlosky, 1998. Radiation of energy from nonzonal ocean currents, nonlinear regime. Part I: Single wave development. *Journal of Physical Oceanography*, **28**(9), 1661–1682.
- Kamenkovich, Igor V., and Joseph Pedlosky, 1998. Radiation of energy from nonzonal ocean currents, nonlinear regime. Part II: Interactions between waves. *Journal of Physical Oceanography*, **28**(9), 1683–1701.
- Pratt, Larry, and Joseph Pedlosky, 1998. Barotropic circulation around islands with friction. *Journal of Physical Oceanography*, **28**(11), 2148–2162.
- Edwards, Christopher A., and Joseph Pedlosky, 1998. Dynamics of nonlinear cross-equatorial flow. Part I: Potential vorticity transformation. *Journal of Physical Oceanography*, **28**(12), 2382–2406.
- Edwards, Christopher A., and Joseph Pedlosky, 1998. Dynamics of nonlinear cross-equatorial flow. Part II: The tropically enhanced instability of the western boundary current. *Journal of Physical Oceanography*, **28**(12), 2407–2417.
- Huang, Rui Xin, and Joseph Pedlosky, 1999. Climate variability inferred from a layered model of the ventilated thermocline. *Journal of Physical Oceanography*, **29**(4), 779–790.
- Pedlosky, Joseph, and Michael Spall, 1999. Rossby normal modes in basins with barriers. *Journal of Physical Oceanography*, **29**(9), 2332–2349.

- Helfrich, Karl R., Joseph Pedlosky, and Eleanor Carter, 1999. The shadowed island. *Journal of Physical Oceanography*, **29**(10), 2559–2577.
- Whitehead, J. A., and J. Pedlosky, 2000. Circulation and boundary layers in differentially heated rotating stratified fluid. *Dynamics of Atmospheres and Oceans*, **31**(1–4), 1–21.
- Lionello, P., and J. Pedlosky, 2000. The role of a finite density jump at the bottom of the quasi-continuous ventilated thermocline. *Journal of Physical Oceanography*, **30**(2), 338–351.
- Pedlosky, Joseph, 2000. The transmission of Rossby waves through basin barriers. *Journal of Physical Oceanography*, **30**(3), 495–511.
- Huang, Rui Xin, and Joseph Pedlosky, 2000. Climate variability of the equatorial thermocline inferred from a two-moving-layer model of the ventilated thermocline. *Journal of Physical Oceanography*, **30**(11), 2610–2626.
- Huang, Rui Xin, and Joseph Pedlosky, 2000. Climate variability induced by anomalous buoyancy forcing in a multilayer model of the ventilated thermocline. *Journal of Physical Oceanography*, **30**(11), 3009–3021.
- Pedlosky, J., 2000. The transmission and transformation of baroclinic Rossby waves by topography. *Journal of Physical Oceanography*, **30**(12), 3077–3101.
- Lionello, P., and J. Pedlosky, 2001. The relation between the potential vorticity and the Montgomery function in the ventilated ocean thermocline. *Journal of Physical Oceanography*, **31**(1), 212–225.
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- Pedlosky, Joseph. The destabilization of Rossby normal modes by meridional baroclinic shear. *Journal of Physical Oceanography*, submitted.
- LaCasce, J. H., and J. Pedlosky. Baroclinic Rossby waves in irregular basins. *Journal of Physical Oceanography*, submitted.
- Huang, Rui Xin and Joseph Pedlosky. On aliasing Rossby waves induced by asynchronous time stepping. *Journal of Physical Oceanography*, submitted.
- Pedlosky, J. A theory of equatorial deep jets *Journal of Physical Oceanography*, submitted.

Walker, Alison and Joseph Pedlosky. On the instability of meridional baroclinic currents. *Journal of Physical Oceanography*, to appear.

Bergamasco, A., E. Pitton, and J. Pedlosky. The influence of the oceanic ridge on the dispersion of a tracer in the abyssal layer of the ocean. *Nuovo Cimento*, (to appear).

Books

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- Pedlosky, Joseph, 1987. *Geophysical Fluid Dynamics*, 2nd Edition. Springer-Verlag, New York, 710 pp.
- Pedlosky, Joseph, 1991. *Theoretical Developments in Ocean Circulation Theory*. Environmental Dynamics Series I, Instituto Veneto di Scienz, Lettere ed Arti, Venice, 124 pp.
- Pedlosky, Joseph, 1996. *Ocean Circulation Theory*. Springer-Verlag, Heidelberg, 453 pp.

Non-refereed Publications

- Pedlosky, Joseph, 1970. Flow and rotating stratified systems. In: Notes on the 1970 Summer Study Program in Geophysical Fluid Dynamics at the Woods Hole Oceanographic Institution, Vol. 1. Woods Hole Oceanographic Institution Technical Report WHOI-70-50, pp. 1–67.
- Pedlosky, Joseph, 1971. Geophysical fluid dynamics. In: *Lectures in Applied Mathematics*, American Mathematical Society, Volume **13** and **14**, pp. 1–60.
- Pedlosky, Joseph, 1977. The finite amplitude dynamics of baroclinic waves. In: *Proceedings of seminar on Applications of Bifurcation Theory*, Paul H. Rabinowitz, editor; Academic Press, New York, pp. 225–258.
- Pedlosky, Joseph, 1986. Thermocline theories. In: *General Circulation of the Ocean*, H. Abarbanel and W. R. Young, editors, Springer-Verlag, New York, pp. 55–101.
- Pedlosky, Joseph, 1990. Baroclinic instability: the Charney paradigm. In: *The Atmosphere — A Challenge, The Science of Jule Gregory Charney*, R. S. Lindzen, E. N. Lorenz, and G. W. Platzman, editors, American Meteorological Society, Boston, pp. 159–176.
- Pedlosky, Joseph, 1992. Graduate Education in Physical Oceanography. *Oceanography*, **5**(2), 117–120.
- Pedlosky, Joseph, 1995. Henry Stommel and the wind-driven ocean circulation: Wrestling with the angel. In: *Collected Works of Henry M. Stommel*, Vol. II, N. G. Hogg and R. X. Huang, editors, American Meteorological Society, Boston, Massachusetts; pp. II-5–II-10.

Pedlosky, Joseph, and Michael Spall, 1998. Crossing the ridge: Rossby Wave tunneling. Woods Hole Oceanographic Institution 1998 Annual Report, pp. 23-24.

Committee on Strengthening the Linkages Between the Sciences and the Mathematical Sciences (Joseph Pedlosky a member), Commission on Physical Sciences, Mathematics, and Applications, National Research Council, 2000. Strengthening the linkages between the sciences and the mathematical sciences. National Academy Press, Washington, D.C., 122 pp.