

Philip L. Richardson

Physical Oceanographer

Scientist Emeritus

Woods Hole Oceanographic Institution

B.S., University of California, 1964 (civil engineering)

M.S., University of Rhode Island, 1970 (physical oceanography)

Ph.D., University of Rhode Island, 1974 (physical oceanography)

Officer, U.S. Coast and Geodetic Survey, USESSA, 1964–1966, Rockville, Maryland.

Graduate Assistant, 1967–1969; Research Assistant, 1969–1973; Assistant Professor of Oceanography, 1973–1974, Graduate School of Oceanography, University of Rhode Island, Kingston, Rhode Island.

Assistant Scientist, 1974–1978; Associate Scientist, 1978–1989, awarded tenure, 1981, Senior Scientist, 1989–2000, Department Chair, 1994–1998, Scientist Emeritus, 2000–present, Woods Hole Oceanographic Institution.

Presently Senior Scientist affiliated with the Associated Scientists at Woods Hole and the Woods Hole Research Center.

Visiting Scientist, 1978–1979, Laboratoire d'Océanographie Physique, Museum National d'Histoire Naturelle, Paris

Visiting Scientist, August–October 1983, Centre Océanographique de Bretagne, Brest

Visiting Scientist, January–April, 1986, Scripps Institution of Oceanography, La Jolla, CA

Member, American Association for the Advancement of Science, American Geophysical Union, American Meteorological Society

Research Interests: The general ocean circulation and its low-frequency variability; Gulf Stream, North Atlantic Current, Benguela Current, equatorial currents, Deep Western Boundary Current, ocean eddies and current rings.

Author or co-author of 72 refereed scientific publications.

Publications

- Richardson, Philip L., and John A. Knauss, 1971. Gulf Stream and western boundary undercurrent observations at Cape Hatteras. *Deep-Sea Research*, **18**, 1089–1109.
- Richardson, P. L., A. E. Strong, and J. A. Knauss, 1973. Gulf Stream eddies: recent observations in the western Sargasso Sea. *Journal of Physical Oceanography*, **3**(3), 297–301.
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- Johnson, David L., and Philip L. Richardson, 1977. On the wind-induced sinking of Sargassum. *Journal of Experimental Marine Biology and Ecology*, **28**, 255–267.
- Lai, David Y., and Philip L. Richardson, 1977. Distribution and movement of Gulf Stream rings. *Journal of Physical Oceanography*, **7**(5), 670–683.
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- Richardson, Philip L., 1980. Gulf Stream ring trajectories. *Journal of Physical Oceanography*, **10**(1), 90–104.
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- Cheney, Robert E., Philip L. Richardson, and Koichi Nagasaka, 1980. Tracking a Kuroshio cold ring with a free-drifting surface buoy. *Deep-Sea Research*, **27A**, 641–654.

- Richardson, P. L., 1980. Anticyclonic eddies generated near the Corner Rise seamounts. *Journal of Marine Research*, **38**(4), 673–686.
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- Richardson, P. L., and T. K. McKee, 1984. Average seasonal variation of the Atlantic equatorial currents from historical ship drifts. *Journal of Physical Oceanography*, **14**(7), 1226–1238.
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- Richardson, P. L., 1985. Drifting derelicts in the North Atlantic 1883–1902. *Progress in Oceanography*, **14**, 463–483.
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- Núñez-Riboni, I. O. Boebel, M. Ollitrault, Y. You, P. L. Richardson, and R. Davis, 2005. Lagrangian circulation of Antarctic Intermediate Water in the subtropical South Atlantic. *Deep-Sea Research II*, in press.
- Fratantoni, D. M., and P. L. Richardson. Evolution and fate of North Brazil Current Rings. *Journal of Physical Oceanography*, submitted.

Non-refereed Publications

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- Richardson, P. L., 1976. Gulf Stream rings. *Oceanus*, **19**(3), 65–68.
- Vastano, A. C., and P. L. Richardson, 1976. Gulf Stream cyclonic rings. *Naval Research Reviews*, **29**(9), 31–36.
- Richardson, P. L., 1978. Tracking Gulf Stream rings with free-drifting satellite buoys. International Council for the Exploration of the Sea (ICES) Document, C.M. 1978, Hydrography Committee C:20.
- Richardson, P. L., 1980. Gulf Stream System: The average temperature field at a depth of 450 m. International Council for the Exploration of the Sea (ICES) Document, C.M. 1980, Hydrography Committee C:31.
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- Richardson, Philip L., and Roger A. Goldsmith, 1987. The Columbus landfall: Voyage track corrected for winds and currents. *Oceanus*, **30**(3), 2–10.
- Richardson, Philip L., 1991. SOFAR floats give a new view of ocean eddies. *Oceanus*, **34**(1), 23–31.
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Technical Reports (and Theses)

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- Cheney, Robert E., and Philip L. Richardson, 1974. The observed decay of a cyclonic Gulf Stream ring. Technical Report Ref. No. 74-2, Graduate School of Oceanography, University of Rhode Island, 132 + vii pp.

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- Lai, D. Y., and P. L. Richardson, 1977. Distribution and movement of cyclonic Gulf Stream Rings. Technical Report Ref. No. 77-1, Graduate School of Oceanography, University of Rhode Island, 139 pp.
- Richardson, P. L., J. J. Wheat, and D. Bennett, 1979. Free drifting buoy trajectories in the Gulf Stream system (1975–1978), a data report. *Woods Hole Oceanographic Institution Technical Report* WHOI-79-4, 159 + v pp.
- Levy, Ellen, and Philip L. Richardson, 1984. Moored current meter data from the Atlantic North Equatorial Countercurrent near 6°N, 28°W (February–September, 1983), Vol. XXXIV. *Woods Hole Oceanographic Institution Technical Report* WHOI-84-16, 15 p. + 29 figs.
- Levy, Ellen, and Philip L. Richardson, 1984. Moored current meter data from the Atlantic North Equatorial Countercurrent near 6°N, 28°W (September, 1983–March, 1984), Volume XXXVI. *Woods Hole Oceanographic Institution Technical Report* WHOI-84-37, 16 p. approx. + 29 figs.
- Levy, Ellen, and Philip L. Richardson, 1985. Moored current meter data from the Atlantic North Equatorial Countercurrent near 6°N 28°W (March–October, 1984), Volume XXXVII. *Woods Hole Oceanographic Institution Technical Report* WHOI-85-7, 52 pp.
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