

CHRISTOPHER J.R. GARRETT

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Born: 1943, Bude, England

Citizenship: British and Canadian

Education: B.A. (1st Class Honours), Mathematics, Cambridge, 1965
Ph.D., Geophysical Fluid Dynamics, Cambridge, 1968

Experience:

1967–1969	Research Fellow	Trinity College	Cambridge
1968–1969	Post–doctoral Research Fellow	Inst. of Oceanography	Univ. of B.C.
1969–71	Assistant Research Geophysicist I, II	Inst. of Geophysics and Planetary Physics	La Jolla, Ca.
1971–73	Assistant Professor	Dept. of Oceanography	Dalhousie Univ.
1973–77	Associate Professor	Dept. of Oceanography	Dalhousie Univ.
1977–91	Professor	Dept. of Oceanography	Dalhousie Univ. Halifax, N.S.
Sept. 1977– April 1978	Visiting Scientist	CSIRO Div. of Fisheries and Oceanography	Cronulla, Australia
July 1981– Feb. 1982	Visiting Fellow Commoner	Trinity College	Cambridge
March 1982– June 1982	Visiting Scientist	NATO SACLANT ASW Research Centre	La Spezia, Italy
Jan. 1989– June 1989	Visiting Professor	University of Washington	Seattle, WA.
1991–2010	Lansdowne Professor	University of Victoria	Victoria, B.C.
2010–	Emeritus Professor	University of Victoria	Victoria, B.C.

Honours:

1965	Mayhew Prize, Part III Math Tripos, Cambridge
1966	Smith's Prize, University of Cambridge
1967	Elected Research Fellow, Trinity College, Cambridge
1977–78	E.W.R. Steacie Memorial Fellow, National Research Council of Canada
1977	Elected Fellow of the Royal Society of Canada

1979	President's Prize, Canadian Meteorological and Oceanographic Society
1981–82	Guggenheim Fellowship
1982	A.G. Huntsman Award
1992	Elected Fellow of the American Geophysical Union
1993	Elected Fellow of the Royal Society of London
1994	Certificate of Appreciation, U.S. Environmental Protection Agency
2001	Henry Stommel Research Award, American Meteorological Society
2003	Elected Fellow of the American Meteorological Society
2006	Elected Foreign Associate of the U.S. National Academy of Sciences
2008	Chairman's Award for Career Achievement, British Columbia Innovation Council
2009	J. P. Tully Medal in Oceanography, Canadian Meteorological and Oceanographic Society
2011	Journal of Physical Oceanography Editor's Award, American Meteorological Society
2015	Elected Honorary Fellow, Trinity College, Cambridge

Other:

- Editorial Board, Journal of Marine Research, 1975–2011
- Editorial Board, Journal of Physical Oceanography, 1977–1983, 2003–
- Editorial Board, Dynamics of Atmospheres and Oceans 1984–2009
- Editorial Board, Atmosphere–Ocean 1984–1989
- Associate Editor, Deep–Sea Research 1993–2005
- SCOR Working Group 49 on “Mathematical Modelling of Oceanic Processes” 1975–1978
- SCOR Working Group 69 on “Small–Scale Oceanic Turbulence” 1981–1987
- GESAMP Working Group on “Oceanographic Models for Deep–Sea Waste Disposal” 1980–1983
- IAPSO Advisory Committee on Tides and Mean Sea Level, 1982–1987
- Expert Panel on Nuclear Waste Disposal at Sea (for IMO) 1984–1985
- AMS Committee on Waves and Stability, 1979–1982
- AMS Committee on Mesoscale Meteorology, 1984–1986
- Canadian National Committee for SCOR, 1978–1981 (Chairman)
- Earth Sciences Grants Committee, National Research Council, 1976
- Interdisciplinary Grants Committee, NSERC, 1986–1989 (Chairman, 1989)
- Defence Science Advisory Board, DND, Ottawa, 1988–1990
- AGU Meetings Committee, 1988–1989
- Cody Award Selection Committee, Scripps Institute of Oceanography, 1988–1992.
- Director's Advisory Committee, Institute of Ocean Sciences, Sidney, Canada, 1991–1994
- Committee to Assess the Adequacy of Environmental Information for Alaskan Outer Continental Shelf Oil and Gas Leasing Decisions, U.S. N.R.C., 1992–1994
- Program Committee Member and Working Group Chairman for First International Conference on “Radioactivity and Environmental Security in the Oceans”, Woods Hole, 7–10 June 1993
- British Columbia/Washington State Marine Science Panel, 1993–1995

- Core Lecturer, Geophysical and Environmental Fluid Dynamics Summer School, Cambridge, September 1993–2000
- Fellows Selection Committee, Ocean Sciences Section, AGU, 1994–1998
- Prizes and Awards Committee, Canadian Meteorological and Oceanographic Society, 1994–1998.
- Committee on Expert Panels, Royal Society of Canada, 1995–2011
- Fellows Selection Committee, American Geophysical Union, 1996–1998
- Advisory Committee, “Mass Transfer and Ecosystem Response”, Marine Science and Technology Program, European Community, 1996–1999
- Fellow of the Japan Society for the Promotion of Science; 8 lectures in Japan, April, 1997
- Distinguished Visiting Lecturer, Scripps Institution of Oceanography, January 1998 (3 lectures).
- Scientific Group on Decommissioning of the Brent Spar, U.K. Government, 1998
- WHOI/MIT Joint Program Review Committee, August 1998
- Netherlands Institute for Sea Research Review Committee, April 1999
- University of Washington Applied Physics Laboratory Review Committee, May 1999
- Panel member, CBC Ideas Series on “Learning From Our Oceans”, 25 May, 2001, Victoria.
- Marine Monitoring Advisory Group, Capital Region District, 2001– 2010 (Chair 2009–2010)
- Miller Medal Committee, Royal Society of Canada, 2001–2004
- Section Committee 5, Royal Society of London, 2002–2005
- Oceanographic Awards Committee, American Meteorological Society, 2002–2005 (Chair 2005)
- Prince Albert 1 Medal Committee, IAPSO, 2002–2005 (Chair 2003–2005)
- SCOR Working Group 121 on Ocean Mixing, 2002–2008
- Houghton Lecturer, MIT, 2004
- Ewing Medal Committee, American Geophysical Union, 2009–2010
- Polar Research Board, U. S. National Academy of Sciences, 2009–2010
- Marine and Hydrokinetic Energy Technology Assessment, U.S. NRC, 2010–2013
- Scientific Advisory Committee, Royal Society of Canada, 2011–2016
- Environmental Advisory Committee, Oak Bay, 2012–2015
- Editorial Board, Proceedings of the Royal Society A, 2013–2018
- Associate Editor, Science Advances, 2014–2017

Publications

Papers in refereed journals

1. Garrett, C. 1967. Discussion: The adiabatic invariant for wave propagation in a non-uniform moving medium. *Proc. Roy. Soc.*, A299, 26–7.
2. Bretherton, F.P. and C. Garrett. 1968. Wavetrains in inhomogeneous moving media. *Proc. Roy. Soc.*, A302, 529–54. Reprinted in “*Hyperbolic Equations and Waves*”, ed. M. Froissart, Springer-Verlag (1970).
3. Garrett, C. 1968. On the interaction between internal gravity waves and a shear flow. *J. Fluid Mech.*, 34, 711–720.
4. Garrett, C. 1969. The fundamental mode of acoustic gravity wave propagation in the atmosphere. *Fluid Dynamics Transactions* (Warsaw), Vol. 4, 707–719.
5. Garrett, C. 1969. Atmospheric edge waves. *Quart. J. Roy. Met. Soc.*, 95, 731–753.
6. Garrett, C. 1970. A theory of the Krakatoa tide gauge disturbances. *Tellus*, 22, 43–52.
7. Garrett, C. 1970. On cross waves. *J. Fluid Mech.*, 41, 837–849.
8. Garrett, C. 1970. Bottomless harbours. *J. Fluid Mech.*, 43, 433–449.
9. Garrett, C. 1971. Wave forces on a circular dock. *J. Fluid Mech.*, 46, 129–139.
10. Garrett, C. and W.H. Munk. 1971. The age of the tide and the ‘Q’ of the oceans. *Deep-Sea Res.*, 18, 493–503.
11. Garrett, C. and W.H. Munk. 1971. Internal wave spectra in the presence of finestructure. *J. Phys. Oceanogr.*, 1, 196–202.
12. Garrett, C. and W.H. Munk. 1972. Space-time scales of internal waves. *Geophys. Fluid Dyn.*, 2, 225–264.
13. Garrett, C. 1972. Tidal resonance in the Bay of Fundy and Gulf of Maine. *Nature*, 238, 441–443.
14. Garrett, C. and W.H. Munk. 1972. Oceanic mixing by breaking internal waves. *Deep-Sea Res.*, 19, 823–832.
15. W.H. Munk and C. Garrett. 1973. Internal wave breaking and microstructure (the chicken and the egg). *Boundary Layer Meteorology*, 4, 37–45.
16. Garrett, C. 1973. The effect of internal wave strain on vertical spectra of finestructure. *J. Phys. Oceanogr.*, 3, 83–85.
17. Garrett, C. 1974. Normal modes of the Bay of Fundy and Gulf of Maine. *Can. J. Earth Sci.*, 11, 549–556.
18. Garrett, C. 1975. Tides in gulfs. *Deep-Sea Res.*, 22, 23–35.

19. Garrett, C. and W.H. Munk. 1975. Space–time scales of internal waves: a progress report. *J. Geophys. Res.*, 80, 291–297.
20. Garrett, C. 1976. Generation of Langmuir circulation by surface waves — a feedback mechanism. *J. Marine Res.*, 34, 117–130.
21. Garrett, C. and R.H. Loucks. 1976. Upwelling along the Yarmouth shore of Nova Scotia. *J. Fish. Res. Bd. Canada*, 33, 116–117.
22. Garrett, C. and J.A. Smith. 1976. On the interaction between long and short surface waves. *J. Phys. Oceanogr.*, 6, 925–930.
23. Garrett, C. and D.A. Greenberg. 1977. Predicting changes in tidal regime: the open boundary problem. *J. Phys. Oceanogr.*, 7, 171–181.
24. Richman, J.G. and C. Garrett. 1977. The transfer of energy and momentum by the wind to the surface mixed layer. *J. Phys. Oceanogr.*, 7, 876–881.
25. Loder, J.W. and C. Garrett. 1978. The 18.6 cycle year of sea surface temperature due to variations in tidal mixing. *J. Geophys. Res.*, 83, 1967–1970.
26. Garrett, C. and E.P.W. Horne. 1978. Frontal circulation due to cabbeling and double diffusion. *J. Geophys. Res.*, 83, 4651–4656.
27. Garrett, C., J.R. Keeley and D.A. Greenberg. 1978. Tidal mixing versus thermal stratification in the Bay of Fundy and Gulf of Maine. *Atmosphere–Ocean*, 16, 403–423.
28. Garrett, C. 1979. Topographic Rossby waves off East Australia: identification and role in shelf circulation. *J. Phys. Oceanogr.*, 9, 244–253.
29. Garrett, C. 1979. Comment on “Some evidence for boundary mixing in the deep ocean” by Laurence Armi. *J. Geophys. Res.*, 84, 5095.
30. Garrett, C. 1979. Mixing in the ocean interior. *Dynamics of Atmospheres and Oceans*, 3, 239–265.
31. Garrett, C. and B. Toulany. 1979. A variable depth Green’s function for shelf edge tides. *J. Phys. Oceanogr.*, 9, 1258–1272.
32. Garrett, C. and B. Petrie. 1981. Dynamical aspects of the flow through the Strait of Belle Isle. *J. Phys. Oceanogr.*, 11, 376–393.
33. Garrett, C. and B. Toulany. 1981. Variability of the flow through the Strait of Belle Isle. *J. Mar. Res.*, 39, 163–189.
34. Garrett, C. and J.W. Loder. 1981. Dynamical aspects of shallow sea fronts. Invited paper, Royal Society Discussion Meeting on “Circulation and Fronts in Continental Shelf Seas” London, 25–26 February 1981. *Phil. Trans. R. Soc. A*, 302, 563–581.

35. Garrett, C. and B. Toulany. 1982. Sea level variability due to meteorological forcing in the Northeast Gulf of St. Lawrence. *J. Geophys. Res.*, 87, 1968–1978.
36. Loder, J.W., D.G. Wright, C. Garrett and B. Juszko. 1982. Horizontal exchange on central Georges Bank. *Can. J. Fisheries and Aquatic Sci.*, 39, 1130–1137.
37. Young, W.R., P.B. Rhines and C. Garrett. 1982. Shear flow dispersion, internal waves and horizontal mixing in the ocean. *J. Phys. Oceanogr.*, 12, 515–527.
38. Garrett, C. 1982. On the parameterization of diapycnal fluxes due to double diffusive intrusions. *J. Phys. Oceanogr.*, 12, 952–959.
39. Garrett, C. 1982. On spin-down in the ocean interior. *J. Phys. Oceanogr.*, 12, 989–993.
40. Garrett, C. 1981. Streakiness. *Ocean Modelling*, 41, 4–6.
41. Garrett, C. 1983. On the initial streakiness of a dispersing tracer in two- and three-dimensional turbulence. *Dynamics of Atmospheres and Oceans*, 7, 265–277.
42. Garrett, C. 1983. Variable sea level and strait flows in the Mediterranean: a theoretical study of the response to meteorological forcing. *Oceanologica Acta*, 6(1), 79–87.
43. Garrett, C. and F. Majaess. 1984. Non-isostatic response of sea level to atmospheric pressure in the Eastern Mediterranean. *J. Phys. Oceanogr.*, 14, 656–665.
44. Hayashi, T., D.A. Greenberg and C. Garrett. 1986. A note on open boundary conditions for numerical models of shelf sea circulation. *Continental Shelf Research*, 5, 487–497.
45. Toulany, B. and C. Garrett. 1984. Geostrophic control of fluctuating barotropic flow through straits. *J. Phys. Oceanogr.*, 14, 649–655.
46. Garrett, C. 1984. Statistical prediction of iceberg trajectories. *Iceberg Research*, 7, 3–7.
47. Garrett, C., J. Middleton, M. Hazen, and F. Majaess 1985. Tidal currents and eddy statistics from iceberg trajectories off Labrador. *Science*, 227, 1333–1335.
48. Garrett, C., F. Majaess and B. Toulany. 1985. Sea level response at Nain, Labrador, to atmospheric pressure and wind. *Atmosphere–Ocean*, 23, 95–117.
49. Garrett, C. 1985. Statistical prediction of iceberg trajectories. *Cold Regions Science and Technology*, 11, 255–266.
50. Ku, L.-F., D.A. Greenberg, C. Garrett and F.W. Dobson. 1985. The nodal modulation of the M_2 tide in the Bay of Fundy and Gulf of Maine. *Science*, 230, 69–71.
51. Middleton, J. and C. Garrett. 1986. A kinematic analysis of polarized eddy fields using drifter data. *J. Geophys. Res.*, 91, 5094–5102.

52. Bormans, M., C. Garrett and K. Thompson. 1986. Seasonal variability of the surface inflow through the Strait of Gibraltar. *Oceanologica Acta*, 9, 403–414.
53. Toulany, B., B. Petrie and C. Garrett. 1987. The frequency-dependent structure and dynamics of flow through the Strait of Belle Isle. *J. Phys. Oceanogr.*, 17, 185–196.
54. Garrett, C. and J. Shepherd. 1987. A simple model for pollutant dispersal from a sea-floor source in the presence of bottom and interior scavenging. *Marine Environmental Research*, 22, 215–232.
55. Bewers, J.M. and C.J.R. Garrett. 1987. Analysis of the issues related to sea dumping of radioactive wastes. *Marine Policy*, 11(2), 105–124.
56. Petrie, B., B. Toulany and C. Garrett. 1988. The transport of water, heat and salt through the Strait of Belle Isle. *Atmosphere–Ocean*, 26, 234–251.
57. Bormans, M. and C. Garrett. 1989. The effect of rotation on the surface inflow through the Strait of Gibraltar. *J. Phys. Oceanogr.*, 19, 1535–1542.
58. Bormans, M. and C. Garrett. 1989. The effects of non-rectangular cross-section, friction and barotropic fluctuations on the exchange through the Strait of Gibraltar. *J. Phys. Oceanogr.*, 19, 1543–1557.
59. Garrett, C., J. Akerley, and K. Thompson. 1989. Low frequency fluctuations in the Strait of Gibraltar from MEDALPEX sea level data. *J. Phys. Oceanogr.*, 19, 1682–1696.
60. Bormans, M. and C. Garrett. 1989. A simple criterion for gyre formation by the surface outflow from a strait, with application to the Alboran Sea. *J. Geophys. Res.*, 94, 12,637–12,644.
61. Gilbert, D. and C. Garrett. 1989. Implications for ocean mixing of internal wave scattering off irregular topography. *J. Phys. Oceanogr.*, 19, 1716–1729.
62. Garrett, C. 1989. A mixing length interpretation of fluctuations in passive scalar concentration in homogeneous turbulence. *J. Geophys. Res.*, 94, 9710–9712.
63. Garrett, C. 1990. The role of secondary circulation in boundary mixing. *J. Geophys. Res.*, 95, 3181–3188.
64. Garrett, C., K. Thompson and W. Blanchard. 1990. Sea level flips. *Nature*, 348, p. 292.
65. Garrett, C. 1991. Marginal mixing theories. *Atmosphere–Ocean*, 29, 313–339.
66. McDougall, T. and C. Garrett. 1992. Scalar conservation equations in a turbulent ocean. *Deep-Sea Research*, 39, 1953–1966.
67. Garrett, C. 1992. Physical oceanography in relation to marine environmental protection. *Marine Pollution Bulletin*, 25, 41–44.

68. Bogucki, D. and C. Garrett. 1993. A simple model for the shear-induced decay of an internal solitary wave. *J. Phys. Oceanogr.*, *23*, 1767–1776.
69. Garrett, C., R. Outerbridge and K. Thompson. 1993. Interannual variability in Mediterranean heat and buoyancy fluxes. *J. Climate*, *6*, 900–910.
70. Li, M. and C. Garrett. 1993. Cell merging and the jet/downwelling ratio in Langmuir circulation. *J. Marine Res.*, *51*, 737–769.
71. van Haren, J., N. Oakey and C. Garrett. 1994. Measurements of internal wave band eddy fluxes above a sloping bottom. *J. Marine Res.*, *52*, 909–946.
72. Tandon, A. and C. Garrett. 1994. Mixed layer restratification due to a horizontal density gradient. *J. Phys. Oceanogr.*, *24*, 1419–1424.
73. Gilman, C. and C. Garrett. 1994. Heat flux parameterizations for the Mediterranean Sea: the role of atmospheric aerosols and constraints from the water budget. *J. Geophys. Res.*, *99*, 5119–5134.
74. Li, M. and C. Garrett. 1995. Is Langmuir circulation driven by surface waves or surface cooling? *J. Phys. Oceanogr.*, *25*, 64–76.
75. Garrett, C., K. Speer and E. Tragou. 1995. The relationship between water mass formation and the surface buoyancy flux, with application to Phillips' Red Sea model. *J. Phys. Oceanogr.*, *25*, 1696–1705.
76. Tandon, A. and C. Garrett. 1995. Geostrophic adjustment and restratification of a mixed layer with horizontal gradients above a stratified layer. *J. Phys. Oceanogr.*, *25*, 2229–2241.
77. Li, M., K. Zahariev and C. Garrett. 1995. The role of Langmuir circulation in the deepening of the surface mixed layer. *Science*, *270*, 1955–1957.
78. Li, M. and C. Garrett. 1997. Mixed layer deepening due to Langmuir circulation. *J. Phys. Oceanogr.*, *27*, 121–132.
79. Tandon, A. and C. Garrett. 1996. On a recent parameterization of mesoscale eddies. *J. Phys. Oceanogr.*, *26*, 406–411 .
80. Tragou, E., and C. Garrett. 1996. The stratification and circulation of the buoyancy driven Red Sea. *Ocean Modelling*, *110*, 6–9.
81. Zahariev, K. and C. Garrett. 1997. An apparent surface buoyancy flux associated with the nonlinearity of the equation of state. *J. Phys. Oceanogr.*, *27*, 362–368.
82. Tragou, E. and C. Garrett. 1997. The shallow thermohaline circulation of the Red Sea. *Deep-Sea Research*, *44*, 1355–1376.

83. Garrett, C. and A. Tandon. 1997. The effects on water mass formation of surface mixed layer time-dependence and entrainment fluxes. *Deep-Sea Research*, 44, 1991–2006.
84. Stansfield, K. and C. Garrett. 1997. Implications of the salt and heat budgets of the Gulf of Thailand. *J. Marine Res.*, 55, 1–29.
85. Ott, M. and C. Garrett. 1998. Secondary circulation in Juan de Fuca Strait. *J. Geophys. Res.*, 103, 15,657–15,666.
86. Li, M. and C. Garrett. 1998. The relationship between oil droplet sizes and upper ocean turbulence. *Mar. Poll. Bull.*, 36, 961–970.
87. Tragou, E., C. Garrett, R. Outerbridge and C. Gilman. 1999. The heat and water budgets for the Red Sea. *J. Phys. Oceanogr.*, 29, 2504–2522.
88. Garrett, C., M. Li and D. Farmer. 2000. The connection between bubble size spectra and energy dissipation rates in the upper ocean. *J. Phys. Oceanogr.*, 30, 2163–2171.
89. Stansfield, K., C. Garrett and R. Dewey. 2001. Calculating Thorpe scales and vertical mixing from CTD data, with application to Juan de Fuca Strait. *J. Phys. Oceanogr.*, 31, 3421–3434.
90. Garrett, C. 2001. An isopycnal view of near-boundary mixing and associated flows. *J. Phys. Oceanogr.*, 31, 138–142.
91. Garrett, C. 2001. What is the “near-inertial” band and why is it different from the rest of the internal wave spectrum? *J. Phys. Oceanogr.*, 31, 962–971.
92. Ross, T., C. Garrett and P.-Y. Le Traon. 2000. Western Mediterranean sea level rise: changing exchange flow through the Strait of Gibraltar. *Geophys. Res. Lett.*, 27, 2949–2952.
93. St. Laurent, L. and C. Garrett. 2002. The role of internal tides in mixing the deep ocean. *J. Phys. Oceanogr.*, 32, 2882–2899.
94. Ott, M. W., R. Dewey and C. Garrett. 2002. Reynolds stresses and secondary circulation in a stratified rotating shear flow. *J. Phys. Oceanogr.*, 32, 3249–3268.
95. Gerdes, F., C. Garrett and D. Farmer. 2002. A note on hydraulics with entrainment. *J. Phys. Oceanogr.*, 32, 1106–1111.
96. Garrett, C. and L. St. Laurent. 2002. Aspects of deep ocean mixing. *J. Oceanogr.*, 58, 11–24.
97. Garrett, C. and F. Gerdes. 2003. Hydraulic control of homogeneous shear flows. *J. Fluid Mech.*, 475, 163–172.
98. St. Laurent, L., Stringer S., C. Garrett and D. Perrault-Joncas. 2003. The generation of internal tides at abrupt topography. *Deep-Sea Research I*, 50, 987–1003.

99. Timmermans, M.-L., C. Garrett and E. Carmack. 2003. The thermohaline structure and evolution of the deep waters in the Canada Basin, Arctic Ocean. *Deep-Sea Research I*, 50, 1305–1321.
100. Garrett, C. 2004. Frictional processes in straits. *Deep-Sea Research II*, 51, 393–410.
101. Garrett, C. and P. Cummins. 2004. Generating tidal power from currents. *J. Waterway, Port, Coastal and Ocean Engineering*, 130, 114–118.
102. Johnson, H. and C. Garrett. 2004. Effects of noise on Thorpe scales and run lengths. *J. Phys. Oceanogr.*, 34, 2359–2372.
103. Ross, T. A., C. Garrett and R. Lueck. 2004. On the turbulent co-spectrum of two scalars and its effect on acoustic scattering from oceanic turbulence. *J. Fluid Mech.*, 514, 107–119.
104. Sutherland, G., Garrett, C. and M. Foreman. 2005. Tidal resonance in Juan de Fuca Strait and the Strait of Georgia. *J. Phys. Oceanogr.*, 35 1279–1286.
105. Garrett, C. and P. Cummins. 2005. The power potential of tidal currents in channels. *Proc. Roy. Soc. A*, 461, 2563–2572.
106. Li, M., C. Garrett and E. Skyllingstad. 2004. A regime diagram for classifying turbulent large eddies in the upper ocean. *Deep-Sea Research I*, 52, 259–278.
107. Dewey, R. K., Richmond, D. L. and C. Garrett. 2005. Stratified tidal flow over a bump. *J. Phys. Oceanogr.*, 35, 1911–1927.
108. Garrett, C. 2006. Turbulent dispersion in the ocean. *Progress in Oceanography*, 70, 113–125.
109. Johnson, H. and C. Garrett. 2006. What fraction of a Kelvin wave incident on a strait is transmitted? *J. Phys. Oceanogr.*, 36, 945–954.
110. Timmermans, M.-L. and C. Garrett. 2006. Evolution of the deep water in the Canadian Basin in the Arctic Ocean. *J. Phys. Oceanogr.*, 36, 866–874.
111. Baschek, B., D. M. Farmer and C. Garrett. 2006. Tidal fronts and their role in air-sea gas exchange. *J. Mar. Res.*, 64, 483–515.
112. Inoue, R. and C. Garrett. 2007. Fourier representation of quadratic friction. *J. Phys. Oceanogr.*, 37, 593–610.
113. Garrett, C. and T. Gerkema. 2007. On the body-force term in internal-tide generation. *J. Phys. Oceanogr.*, 37, 2172–2175.
114. Sutherland, G., M. Foreman and C. Garrett. 2007. Tidal current energy assessment for Johnstone Strait, Vancouver Island. *J. Power and Energy*, 221, 147–157.

115. Gemmrich, J. R., M. L. Banner and C. Garrett. 2008. Spectrally resolved energy dissipation and momentum flux of breaking waves. *J. Phys. Oceanogr.*, 38, 1296–1312.
116. Garrett, C. and P. Cummins. 2007. The efficiency of a turbine in a tidal channel. *J. Fluid Mech.*, 588, 243–251.
117. Arbic, B. K., P. St-Laurent, G. Sutherland and C. Garrett. 2007. On the resonance and influence of the tides in Ungava Bay and Hudson Strait. *Geophys. Res. Lett.*, 34, L17606, doi:10.1029/2007GL030845.
118. Blanchfield, J., C. Garrett, P. Wild, and A. Rowe. 2008. The extractable power from a channel linking a bay to the open ocean. *J. Power and Energy*, 222, 289–297.
119. Gemmrich, J. and C. Garrett. 2008. Unexpected waves. *J. Phys. Oceanogr.*, 38, 2330–2336.
120. Garrett, C. and P. Cummins. 2008. Limits to tidal current power. *Renewable Energy*, 33, 2485–2490.
121. Blanchfield, J., C. Garrett, P. Wild, and A. Rowe. 2008. Tidal stream power resource assessment for Masset Sound, Haida Gwaii. *J. Power and Energy*, 222, 485–492.
122. Chapman, P. M., J. Cullen, C. Garrett, J. Littlepage, T. Pedersen, D. Varela, R. Macdonald, R. Thomson and T. Parsons. 2008. Sewage treatment wasted – The Victoria (BC, Canada) example. *Marine Pollution Bulletin*, 56, 1815–1816.
123. Arbic B. K., R. Karsten, and C. Garrett. 2009. On tidal resonance in the global ocean and the back-effect of coastal tides upon open-ocean tides. *Atmosphere Ocean*, 47, 239–266.
124. Arbic B. K. and C. Garrett. 2009. A coupled oscillator model of shelf and ocean tides. *Cont. Shelf Res.*, 30, 564–574.
125. Gemmrich, J. and C. Garrett. 2010. Unexpected waves: intermediate depth simulations and comparison with observations. *Ocean Engineering*, 37, 262–267.
126. Gemmrich, J. and C. Garrett. 2011. Dynamical and statistical explanations of observed occurrence rates of rogue waves. *Nat. Hazards Earth Syst. Sci.*, 11, 1437–1446.
127. Gemmrich, J. and C. Garrett. 2012. Surface wave modulation by inertial and tidal currents in deep water. *J. Phys. Oceanogr.*, 42, 1051–1056.
128. Garrett, C. and P. Cummins. 2013. Maximum power from a turbine farm in shallow water. *J. Fluid Mech.*, 714, 634–643.
129. Gemmrich, J., B. Baschek, and C. Garrett. 2013. A rare but damaging rogue wave from an unexpected direction. *Seaways*, September 2013, 14–16.

Book chapters and invited reviews

130. Trites, R.W. and C. Garrett. 1983. The Physical Oceanography of the Quoddy Region. Chapter 3 of Marine and Coastal Systems of the Quoddy Region, New Brunswick, ed. M.L.H. Thomas. 9–34.
131. Garrett, C. and W.H. Munk. 1979. Internal waves in the ocean. *Ann. Rev. Fluid Mech.*, 11, 339–369.
132. Garrett, C., P. MacCready and P. Rhines. 1993. Boundary mixing and arrested Ekman layers: rotating, stratified flow near a sloping boundary. *Ann. Rev. Fluid Mech.*, 25, 291–323.
133. Garrett, C. 1996. The role of the Strait of Gibraltar in the evolution of Mediterranean water properties and circulation. *Bulletin de l'Institut Océanographique, Monaco*, 17, 1–19.
134. Li, M. and C. Garrett. 1998. Large eddies in the surface mixed layer and their effects on mixing, dispersion and biological cycling. In: Physical Processes in Lakes and Oceans, *Coastal and Estuarine Studies*, 54, 61–86.
135. Garrett, C. 2000. The dynamic ocean. In: Perspectives in Fluid Dynamics, Cambridge University Press, 507–556.
136. Garrett, C. and E. Kunze. 2007. Internal tide generation in the deep ocean. *Ann. Rev. Fluid Mech.*, 39, 57–87.

Invited commentaries

137. Garrett, C. 1993. A stirring tale of mixing. *Nature*, 364, 670–671.
138. Garrett, C. 2003. Mixing with latitude. News and Views. *Nature*, 422, 477–478.
139. Garrett, C. 2003. Internal tides and ocean mixing. *Science*, 301, 1858–1859.

Papers in conference proceedings

140. Garrett, C. 1976. Tidal water movements. Invited review paper, Symposium on Energy Related Activities on the Atlantic Continental Shelf, Brookhaven, U.S. Dept. of Commerce BNL50484, 48–58.
141. Garrett, C. 1977. Tidal influences on the physical oceanography of the Bay of Fundy and Gulf of Maine. Fundy Tidal Power and the Environment. Acadia University Institute Report, 28, 101–115.
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