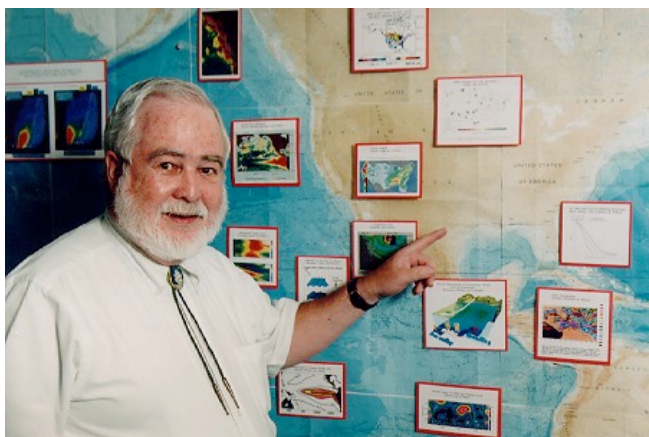


## Biography of Dr. James J. O'Brien

Robert O. Lawton Distinguished Professor and Professor Emeritus, Meteorology & Oceanography  
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### DEGREES:

Texas A&M University, Ph.D., Meteorology, 1966  
Texas A&M University, M.S., Meteorology, 1964  
Rutgers University, B.S., Chemistry, 1957

### HONORARY & PROFESSIONAL SOCIETIES:

American Assoc. Advancement of Science, Fellow  
American Geophysical Union, Fellow  
American Meteorological Society, Fellow  
Royal Meteorological Society, Fellow  
IUGG/IAPSO, Fellow  
Oceanographical Society of Japan  
SIAM  
Chi Epsilon Pi  
Phi Kappa Phi  
Pi Mu Epsilon  
Scarlet Key  
Sigma Xi

### HONORS:

Medal of Honor, Liege University, Belgium, 1978  
Fellow, American Meteorological Society, 1981  
Fellow, Royal Meteorological Society, 1983  
Secretary of Navy Professor in Oceanography, 1985

Sverdrup Gold Medal in Air-Sea Interaction, 1987  
Fellow, American Geophysical Union, 1987  
Fellow, Amer. Assoc. Advancement of Science, 1988  
ONR Distinguished Ocean Educator, 1989  
Distinguished Research Professor, FSU, 1991  
Foreign Fellow, Russian Academy of Natural Science, 1994  
Medal of Honor, Ocean university of Quindao, China, 1999  
Robert O. Lawton Distinguished Professor, FSU, 1999  
Member, The Norwegian Academy of Science and letters, 2000  
Member, Rutgers Distinguished Alumni Hall of Fame, 2002  
Fellow, World Innovation Foundation, 2004  
Medalist, Florida Academy of Sciences , 2006  
UDA Prize, Japan Oceanographic Society, 2006  
William T. Pecora Award, 2008  
Fellow, IUGG/IAPSO, 2015

#### **CITATIONS:**

American Men of Science  
Who's Who in the United States  
Who's Who in the South East  
Who's Who in Frontier Science and Technology  
Personalities in America  
International Leaders in Achievement  
Who's Who in Technology  
Who's Who in America  
Who's Who in Science and Engineering  
2000 Outstanding Scientists of the 20th Century

#### **RESEARCH POSITIONS AND ACADEMIC APPOINTMENTS:**

1957-58 Chemist, E. I. dePont de Nemours and Company, Inc.  
1958-60 Weather Officer, U.S. Air Force  
1960-62 Technical Representative, E. I. dePont de Nemours and Company, Inc.  
1962-65 NASA Trainee, Texas A&M University  
1966-67 Advanced Study Group Fellow, National Center for Atmospheric Research, Boulder, Colorado  
1967 (summer) Visiting Lecturer in Meteorology, Florida State University  
1967-68 Research Scientist, National Center for Atmospheric Research, Boulder, Colorado  
1969-72 Associate Professor of Meteorology and Oceanography, Florida State University  
1969- Associate Member of the Institute of Geophysical Fluid Dynamics, present Florida State University  
1969-1971 Visiting Research Scientist, National Center for Atmospheric (summers) Research, Boulder, Colorado  
1972-1973 Visiting Professor, Department of Oceanography, Oregon State University  
1972-74 Professor of Meteorology and Oceanography, Florida State University  
1974-76 Program Director, Physical Oceanography, Office of Naval Research  
1972 - Professor of Meteorology and Oceanography, Florida State present University  
1985- Secretary of Navy Professor, Florida State University  
1991- Distinguished Research Professor, Florida State University  
1994- Director, Center for Ocean-Atmospheric Prediction Studies  
1996 Adjunct Professor, University of Miami, Rosenthal School of Atmospheric and Marine Science  
1999- Robert O. Lawton Distinguished Professor Award, Florida State University

2007- Retired

## PROFESSIONAL AND UNIVERSITY SERVICE ACTIVITIES:

Appointed to the Florida Commission on Hurricane Loss Projection Methodology, 1999- 2005  
Appointed as State of Florida Climatologist, 1999  
Chair Board on Ocean & Atmospheres, NASULGC, 1997-1998  
Member, Board on Ocean & Atmospheres, NASULGC, 2002-2005  
President, Atmospheric & Hydrologic Science, AAAS, 1995-1998  
NASA, GSFC Advisory Panel for Data Assimilation Office, 1992-1994  
NOAA, NCDC Climate & Global Change Advisory Panel, Member, 1991-92  
Sverdrup Gold Medal Committee, AMS, 1990-92, Chairman, 1993-97  
Board of Advisors, Naval Postgraduate School, California, 1990-1994  
NAS, Board on Atmospheric Sciences and Climate, Member, 1989-1993  
NAS, Ocean Studies Board, Member, 1988-1991  
NAS, Committee on Ocean's Role in Global Change, Chairman, 1989-91  
NAS, Committee on Naval Studies, Member, 1989-92  
NAS, Committee on International Ocean Affairs, Member, 1989-91  
SCOR/IOC Working Group, CCCO, Member, 1987-1990, Chairman, 1990-93  
J. Geophysical Research, Oceans, Editor 1984-88, 1988-90  
IAPSO, President, 1987-91  
IAPSO, Vice President, 1983-87  
Associate Editor, Monthly Weather Review, 1992-97  
Associate Editor, Continental Shelf Research, 1986-  
Associate Editor, International J. Math and Computer Modelling, 1984- 2006  
ENSO Alert Panel for U.S. TOGA Office, Chairman, 1985-87  
WOCE Theoretical Panel, Member, 1984-1986  
NASA Satellite Surface Stress Committee, S3 , Chairman, 1981-84  
JOI Satellite Planning Committee, 1983-84  
INO Advisory Panel, 1986-87  
Member of Oceanography Assessment Advisory Panel, OTA, Congress, 1980  
U.S. Committee for IUGG, 1980-1984, NAS, Chairman, IAPSO Subcommittee  
President, Oceanography Section, American Geophysical Union (AGU), 1980-1982  
Associate Editor, J. Physical Oceanography, 1970-1986  
Associate Editor, 1975-1978 IUGG Quadrennial Report, 1978-1979  
Co-editor, Progress in Oceanography, Pergamon Press, 1977-1984  
Associate Editor, Geophysical Research Letters, 1977-1979  
IUGG Executive Council, Member, 1987-91, co-opted member, 1991-1993  
SCOR Executive Council, Member, 1987-91, co-opted member, 1991-92  
SCOR, U.S. Delegate, 1991-93  
SCOR Working Group 73, Ecological Theory in Relation to Biological Oceanography, 1983-85  
SCOR Scientific Rapporteur on Mathematical Modelling, 1978-80  
SCOR Working Group, CCCO, corresponding member, 1979-1982  
SCOR Working Group 49, Math Model of Ocean Processes, Chair, 1977-1978  
SCOR Working Group 55, Prediction of El Nio, 1977-1983  
SCOR Committee on Oceanography for GARP, 1977  
SCOR Working Group 36, Upwelling Editorial Committee, 1978-1981  
SCOR Working Group 59, Math Models in Bio. Oceanography, 1978-1986  
NAS, Naval Studies Committee of Ocean Science Board, 1987-88  
NAS, Committee to evaluate the MMS Outer Continental Shelf, 1986-1992  
NAS, Physical Oceanography for MMS OCS Studies, 1986-1989  
NAS, Committee on Oceans and Climate, Member, 1986-89  
NAS, Comm. on Computers for Oceanography in the 1980's, Chairman, 1980-81

NAS, Committee on Evaluation of BLM-OCS Program, 1977  
 NAS, Committee on Biological Effects of a Sea-level Panama Canal, 1977  
 AGU Bowie Medal Committee, 1991-92, 1993-94  
 AGU Ewing Medal Committee, 1988-95  
 AGU Executive Committee for Ocean Sciences, 1988-90  
 AGU Editors Committee, 1987-89  
 AGU Membership Committee, 1982-84  
 AGU Oceanography Section, Executive Committee Member, 1982-87  
 AGU Oceanography Section, Chairman, Education Committee, 1982-84  
 AGU Search Committee for GRL Editor, 1979  
 AGU Committee on Coastal and Estuarine Regimes, 1978-80  
 AGU Conference on Oceanic Fronts, Member of Program Committee  
 UCAR SPEC, Member, 1979-80, 1980-81  
 UCAR Evaluation Committee on Oceanography, Member, 1977  
 Chairman, Physical Committee, CUEA-IDOE, NSF, 1973-74  
 Co-Director, CUE-I, II (Coastal Upwelling Experiment), 1972-1973  
 10th, 11th, 12th, 14th, 15th, 21st, 22nd, 25th, Liege Colloquium on Ocean Hydrodynamics, 1978, 1979, 1980, 1982, 1983, 1989, 1990, 1993 Member of Scientific Organizing Committee  
 Editor, The Sea, Volume 6, 1976. Interscience  
 NCAR Computing Advisory Panel, 1972-74; Chair, 1973-74; Member, 1981-1984  
 UNOLS Committee on Aircraft in Oceanography, 1972  
 Chairman, NATO Working Group, Spatial Inhomogeneity in the Oceans  
 A.M.S. Fellows Committee, 1990-91  
 A.M.S. Committee on Air-Sea Interaction, 1975-1978; Chairman, 1977  
 A.M.S. Committee on Awards, Member, 1983-84  
 Equatorial Theoretical Panel, Member (Sponsored by NSF)  
 BIOMASS, ad hoc Modelling Group, Member, 1983-84  
 Graduate Student Council, Texas A&M University  
 Director, Graduate Studies, Dept. of Meteorology, FSU, 82-83, 87-89, 92-93, 94-98  
 Dynamics Major Counselor, Department of Meteorology, FSU, 1969-72  
 Chairman, Foreign Language Committee, Department of Meteorology, 1970-72  
 Operational and Planning Committee, Department of Meteorology, 1970-72  
 Admission Committee, Department of Meteorology, 1971-72, 1984-85  
 Administrative Committee, Department of Meteorology, 1971-1972, 1976, 1988-89  
 Faculty Search Committee, Department of Meteorology, 1972  
 Faculty Affairs Committee, Department of Meteorology, 1976-present; Chairman, 1984-85, 1989-90, 1990-91  
 Meteorology Department Admissions Committee, Co-chairman, 1976-1977, 1977-78, 1978-79; Chairman, 1979-1981, 1985-1987, member 1987-  
 Meteorology Department, Dynamics Option Chairman, 1977-78, member 1977-  
 Natural Science Area Promotion and Tenure Committee, FSU, 1976-1977  
 Division I Promotion and Tenure Committee, FSU, 1976-1977  
 FSU Review Committee for Computer Science Ph.D. Program, Chairman, 1989-90  
 Chairman, SCRI Superchair, FSU Foundation, 1991-94  
 Chairman, CSIT SP USERS Committee, 2002-

## REVIEWER:

Applied Mechanics Reviews, J. Comp. Physics, J. Geophysical Research, J. Marine Research, J. Physical Oceanography, J. Atmospheric Sciences, J. Applied Meteorology, J. Fluid Dynamics, Deep-Sea Research, Monthly Weather Review, Bulletin of the American Meteorological Society, Science, National Science Foundation, Office of Naval Research, NASA, Department of Energy, Environmental Protection Agency, NOAA, International Science Foundation, Others

## PH.D. STUDENTS:

- |                               |                                |                            |
|-------------------------------|--------------------------------|----------------------------|
| 1. Dr. Jacob Padro            | 16. Dr. Bernard Barnier        | 31. Dr. Alan Leonardi      |
| 2. Dr. John Lee               | 17. Dr. Alejandro Pares-Sierra | 32. Dr. Luis Zamudio-Lopez |
| 3. Dr. Harley Hurlburt        | 18. Dr. Ole Martin Smedstad    | 33. Dr. Ken-ichi Mizoguchi |
| 4. Dr. J. Dana Thompson       | 19. Dr. Tommy Jensen           | 34. Dr. Wilton Arruda      |
| 5. Dr. John Kindle            | 20. Dr. John McCalpin          | 35. Dr. Andrea Mask        |
| 6. Dr. Joseph Wroblewski      | 21. Dr. Jiayan Yang            | 36. Dr. Birol Kara         |
| 7. Dr. Richard Grotjahn       | 22. Dr. David Legler           | 37. Dr. Erik Kvaleberg     |
| 8. Dr. Benoit Cushman-Roisin  | 23. Dr. Brian Kelly            | 38. Dr. Annette Samuelsen  |
| 9. Dr. George Heburn          | 24. Dr. Lisan Yu               | 39. Dr. Anthony Arguez     |
| 10. Dr. Alex Camerlengo       | 25. Dr. Jay Shriver            | 40. Dr. Peng Yu            |
| 11. Dr. Antonio J. Busalacchi | 26. Dr. Ming Liu               | 41. Dr. William Putman     |
| 12. Dr. Richard Rood          | 27. Dr. Rodrigo Nuñez          | 42. Dr. Justin Brolley     |
| 13. Dr. Sirpa Hakkinen        | 28. Dr. Mark Verschell         | 43. Dr. Yoshie Goto-Maeda  |
| 14. Dr. Ruth Preller          | 29. Dr. Steve Morey            | 44. Dr. Marie Boisserie    |
| 15. Dr. Germana Peggion       | 30. Dr. Charles Tilburg        |                            |

(In addition to the above Ph.D. students, there have been **66 M.S. Students** from the Departments of Meteorology and Oceanography)

## PRIMARY SCIENTIFIC PUBLICATIONS:

- 1964 Investigation of the diabatic wind profile in the atmospheric boundary layer. Master's Thesis, Texas A&M University.
- 1965 [The rank correlation coefficient as an indicator of the product-moment correlation coefficient for small samples](#) (10-100). *J. Geophys Res.*, 70, 1995-1998.
- 1965 [An investigation of the diabatic wind profile in the atmospheric boundary layer](#). *J. Geophys Res.*, 70, 2277-2290.
- 1966 The non-linear response of a two-layer baroclinic ocean to a stationary, axially-symmetric hurricane. Ph.D. Dissertation, Texas A&M University.
- 1967 [Choosing a test for normality for small samples](#). *Archiv fur Meteorologic, Geophysik und Bioklimatologie*, 16, (with John F. Griffiths).
- 1967 [The non-linear response of a two-layer baroclinic ocean to a stationary, axially-symmetric hurricane: I. Upwelling and mixing induced by momentum transfer](#). *J. Atmos.Sci.*, 24, 197-207 (with R.O. Reid).
- 1967 [The non-linear response of a two-layer baroclinic ocean to a stationary, axially-symmetric hurricane: II. Upwelling and mixing induced by momentum transfer](#). *J. Atmos. Sci.*, 24, 208-215.
- 1968 [Comments on the over-relaxation factor in the numerical solution of the omega equation](#). *Mon. Wea. Rev.*, 96, 99-104.
- 1968 [An objective analysis of wind data for energy budget studies](#). *J. Appl. Meteor.*, 7, 333-338 (with A. Gruber).
- 1969 [A direct numerical solution to a one-dimensional Helmholtz equation](#). *J. of Computational Physics*, 3, 544-546.

- 1970 [Alternate solutions to the classical vertical velocity problem](#). *J. Appl. Meteor.*, 9, 197-203.
- 1970 [Boundary conditions for fine-mesh limited-area forecasts](#). *J. Appl. Meteor.*, 9, 343-349 (with M.A. Shapiro).
- 1970 [A note on the vertical structure of the eddy exchange coefficient in the planetary boundary layer](#). *J. Atmos. Sci.*, 27, 1213-1215.
- 1971 [Steady coastal upwelling induced by an along-shore current](#). *J. Phys. Oceanogr.*, 1, 180-186 (with Y. Hsueh).
- 1972 [A numerical model of coastal upwelling](#). *J. Phys. Oceanogr.*, 2, 14-26 (with H. Hurlburt).
- 1973 [On advection in phytoplankton models](#). *J. Theor. Biology*, 38, 197-202 (with J. Wroblewski).
- 1973 [Time-dependent coastal upwelling](#). *J. Phys. Oceanogr.*, 3, 33-46 (with J.D. Thompson).
- 1973 [A multi-layer transient model of coastal upwelling](#). *J. Phys. Oceanogr.*, 3 (3), 258-273 (with R. McNider).
- 1973 [A study of an Oregon sea breeze event](#). *J. Appl. Meteor.*, 12, 1267-1283 (with A. Johnson).
- 1973 [A simulation of the mesoscale distribution of the lower marine trophic levels off West Florida](#). *Inv. Pesq.*, 37(2), 193-244 (with J. Wroblewski).
- 1974 [On upwelling along a zonally-oriented coastline](#). *J. Phys. Oceanogr.*, 4(1), 125-130 (with J. Kindle).
- 1974 [Equatorial jet in the Indian Ocean: Theory](#). *Science*, 184, 1075-1077 (with H.E. Hurlburt).
- 1974 [Comments on the use of the Dufort-Frankel finite difference approximation for simulation of diffusion in geophysical fluids](#). *J. Phys. Oceanogr.*, 4, 458-459.
- 1974 [Rotary wind spectra in a seabreeze regime](#). *J. Appl. Meteor.*, 3, 820-825 (with R.D. Pillsbury).
- 1974 [On the physical and biological scales of phytoplankton patchiness in the ocean](#). *Memoires de la Societe Royale des Sciences de Liege*, 8, 43-57, (with J.S. Wroblewski, and T. Platt).
- 1975 [Models of coastal upwelling - A review](#). *Numerical Modelling of Ocean Circulation*, *National Academy of Sciences*, 204-215.
- 1975 [Mesoscale variability of sea surface temperatures](#). *J. Phys. Oceanogr.*, 5, 761-772 (with C. Holladay).
- 1976 [A three-dimensional simulation of coastal upwelling off Oregon](#). *J. Phys. Oceanogr.*, 6, 164-180, (with M. Peffley).
- 1976 [Some inaccuracies in finite differencing hyperbolic equations](#). *Mon. Wea. Rev.*, 104(2), 180-194 (with R. Grotjahn).
- 1976 [A spatial model of phytoplankton patchiness](#). *Marine Biology*, 35, 161-175 (with J. Wroblewski).
- 1976 [The Sea, Vol. VI, Ideas and Observations on Progress in the Study of the Seas](#). New York, Interscience (co-editors: E. Goldberg, J. McCave and J. Steele).
- 1976 [A numerical simulation of the onset of El Nino](#). *J. Phys. Oceanogr.*, 6(5), 621-631 (with H. Hurlburt and J. Kindle).
- 1976 [A system for monitoring the location of harvestable COHO salmon stocks](#). *Marine Fisheries Review*, 38(3), 1-7 (with D.J. Wright and B.M. Woodworth).
- 1977 [Observational studies of the marine boundary layer over an upwelling region](#). *Mon. Wea. Rev.*, 105(1), 86-98 (with D.L. Elliott).
- 1977 [A simulation of the mesoscale distribution of the lower marine trophic levels off West Florida](#). Chapter 3 in *Systems Analysis and Simulation in Ecology, IV*, edited by P. Patton, Academic Press, Inc., 63-100 (with J. Wroblewski).
- 1977 [Upwelling in the Ocean: Two and three-dimensional models of upper ocean dynamics and variability](#). In: *Modelling and Prediction of the Upper Layers of the Ocean*, ed. E.B. Kraus. Pergamon Press (with numerous authors).
- 1977 [A note on baroclinic equatorial motion](#). *J. Math. and Phys. Sci.*, Vol. 11, 47-54 (with .G. Hallem).
- 1978 [The seasonal upwelling in the Gulf of Guinea due to remote forcing](#). *J. Phys. Oceanogr.*, 1050-1060 (with D. Adamec).
- 1978 [A simple model of upwelling in the Gulf of Guinea](#). *Geophysical Research Letters*, 641-644 (with D. Adamec and D.W. Moore).
- 1978 [Equatorial adjustment in the eastern Atlantic](#). *Geophysical Research Letters*, 637-640 (with

- numerous authors).
- 1978 [Comment on the presentation and interpretation of spectra of large-scale disturbances](#). *Mon. Wea. Rev.*, 1204.
- 1979 [Equatorial Oceanography](#). *Reviews of Geophysics and Space Physics*, 17(7), 1569-1575.
- 1980 [Numerical simulation of coastal upwelling off the coast of Peru](#). Proceedings for the Symposium on Innovative Numerical Analysis in Applied Engineering Science, edited by W. Pilkey, Univ. Press of Virginia, 157-168 (with G. W. Heburn).
- 1980 [Open boundary conditions in rotating fluids](#). *J. Comp. Phys.*, 35, No. 1, 12-35 (with A. Camerlengo).
- 1980 [The influence of bottom topography on upwelling off Peru](#). *J. Phys. Oceanogr.*, 10(9), 1377-1398 (with R. Preller).
- 1980 [The seasonal variability in a model of the tropical Pacific](#). *J. Phys. Oceanogr.*, 10, 1929-1951 (with A. Busalacchi).
- 1980 Progress in Oceanography, 8, Co-Editor with M. Angel, 293 p., Pergamon Press, Oxford.
- 1981 [Coastal wind effects on fjord circulation](#). *Norwegian Coastal Current*, eds. Saetre and Mork, 178-214 (with J. Klinck and H. Svendsen).
- 1981 [Ocean Models of El Niño](#). Chapter 7 in Resource Management and Environmental Uncertainty, edited by Glantz and Thompson, 159-212 (with A. Busalacchi and J. Kindle).
- 1981 [On modelling the turbulent transport of passive biological variables in aquatic ecosystems](#). *Ecological Modelling*, 1, 29-44 (with J. S. Wroblewski).
- 1981 [Time and space variability of tropical Pacific wind stress](#). *Mon. Wea. Rev.*, 109, 1190-1207 (with S. Goldenberg).
- 1981 [Wind generation of the Costa Rica Dome](#). *Science*, 214(4520), 552-554, (with E. E. Hofmann and A. Busalacchi).
- 1981 [Interannual variability of the Equatorial Pacific in the 1960's](#). *J. Geophys. Res.*, 86, 10901-10907 (with A. J. Busalacchi).
- 1982 Progress in Oceanography, 9, co-editor with Martin Angel, 247 p., Pergamon Press, Oxford.
- 1982 [Geostrophic adjustment in highly dispersive media: an application to the Marginal Ice Zone](#). *Geophys. Astrophys. Fluids*, 263-278 (with L. Roed).
- 1982 [A simple model of fjord and coastal circulation interaction](#). *J. Phys. Oceanogr.*, 11, 1612-1626 (with J. Klinck and H. Svendsen).
- 1982 Progress in Oceanography, 10, co-editor with M. Angel, 226 p., Pergamon Press, Oxford.
- 1982 [An Assessment of Computational Resource Required for Ocean Circulation Modelling](#). National Academy of Sciences Press, 61 pages (with others).
- 1983 [A coupled ice-ocean model of upwelling in the marginal ice zone](#). *J. Geophys. Res.*, 88, 2863-2872 (with L. P. Roed).
- 1983 Atlas of Tropical Pacific Wind-Stress Climatology, 1961-1970. Florida State University, Tallahassee, 200 pp. (with S. B. Goldenberg).
- 1983 [On wind and ocean velocity correlations in a coastal-upwelling system](#). *J. Phys. Oceanogr.*, 13, 547-550 (with B. Cushman-Roisin, and R. L. Smith).
- 1983 [Regulation of phytoplankton communities by physical processes in upwelling ecosystems](#). *J. Marine Res.*, 41, 539-556 (with W. O. Smith, R. T. Barber, and G. W. Heburn).
- 1983 [Seasonal and interannual variability of the surface currents in the tropical Pacific Ocean](#). CNC/SCOR. 1983. Proceedings of the Joint Oceanographic Assembly 1982 - General Symposia. Canadian National Committee/ Scientific Committee on Oceanic Research, Ottawa, Ont., pp. 47-63 (with Louis Nash).
- 1983 [Considerations of coastally forced flow in a branched fjord](#). *Coastal Oceanogr.*, 451-473 (with J. M. Klinck, and B. Cushman-Roisin).
- 1983 [The state-of-the-art in coastal ocean modelling, a numerical model of coastal upwelling off Peru - including mixed layer dynamics](#). *Coastal Oceanogr.*, 113-164 (with G. W. Heburn).
- 1983 [The influence of bottom topography on baroclinic transports](#). *J. Phys. Oceanogr.*, 13, 1601-1611



- (with B. Cushman-Roisin).
- 1983 Progress in Oceanography, 11, co-editor with M. Angel, 402 pp.
- 1983 [On the interannual wind-driven response of the tropical Pacific Ocean](#), *Hydrodynamics of the Equatorial Ocean*, J. C. J. Nihoul, Editor, Elsevier, pgs. 155-195. (with A. J. Busalacchi and K. Takeuchi).
- 1983 [Interannual variability of the equatorial Pacific - Revisited](#), *J. Geophys. Res.*, 88, 7551-7562 (with A. J. Busalacchi, and K. Takeuchi).
- 1983 [The interaction of a two-layer isolated mesoscale eddy with bottom topography](#), *J. Phys. Ocean.*, 13, 1682-1697 (with D. C. Smith IV).
- 1983 [The physical environment in coastal upwelling regions, An Introduction](#), *Progress in Oceanography*, 12 (3).
- 1984 [A forecasting model for the onset of a major El Nino](#), *Mon. Wea. Rev.*, 112, 2326-2337 (with M. Inoue).
- 1984 Progress in Oceanography, 12, co-editor with M. Angel, approx. 450 pp.
- 1985 [Development and testing of a simple assimilation technique to derive average wind fields from simulated scatterometer data](#), *Mon. Wea. Rev.*, 113, 1791-1800 (with D. Legler).
- 1985 [Estimates of oceanic horizontal heat transport in the tropical Pacific](#), *J. Geophys. Res.*, 90, No. C2, 3293-3303, (with A. Pares-Sierra and M. Inoue).
- 1985 [A model of the seasonal circulation in the Arabian Sea forced by observed winds](#), *Prog. in Oceanogr.*, 14, 353-385, (with M. Luther).
- 1985 [Morphology of the Somali current system during the southwest Monsoon](#), *Coupled Atmosphere-Ocean Models*, edited by J. C. J. Nihoul, Elsevier, Amsterdam, pp. 405-437, (with M. Luther and A. Meng).
- 1986 [An explicit finite-difference scheme for solving the ocean acoustic parabolic wave equation](#), *Computers and Mathematics with Applications*, 11, 937-942, (with G. Peggion).
- 1986 [Assimilation of scatterometer winds into surface pressure fields using a variational method](#), *J. Geophys. Res.*, 91, No. D7, 7816-7836, (with Jack Harlan, Jr.).
- 1986 [Weibull statistics of wind speed over the ocean](#), *Journal of Climate and Applied Meteorology*, 25, No. 10, pp. 1324-1332, (with Edgar Pavia- Lopez).
- 1986 [Predictability of the decay of the 1982/83 El NINO](#), *Mon. Wea. Rev.*, 114, No. 6, pp. 967-972, (with M. Inoue).
- 1986 [Off-equatorial influence upon Pacific equatorial dynamic height variability during the 1982-1983 El Niño/Southern Oscillation Event](#), *J. Geophys. Res.*, 91, No. C7, pp. 8437-8449, (with S. Pazan, W. B. White and M. Inoue).
- 1986 [An important scientific controversy: ocean CO2 fluxes](#), *J. Geophys. Res.- Oceans*, 91, No. C9, p. 10,515.
- 1986 Advanced physical oceanographic numerical modelling, Reidel, 610 pp., editor.
- 1986 [The Diffusive Problem](#), J. J. O'Brien, editor, *Advanced physical oceanographic numerical modelling*, Reidel Press, 127-144.
- 1986 [Time Integration Schemes](#), J. J. O'Brien, editor, *Advanced physical oceanography numerical modelling*, Reidel Press, 155-163.
- 1986 [The Hyperbolic Problem](#), J. J. O'Brien, editor, *Advanced physical oceanographic numerical modelling*, Reidel Press, 165-186.
- 1986 [Some Useful Mathematical Preliminaries](#), J. J. O'Brien, editor, *Advanced physical oceanographic numerical modelling*, Reidel Press, 33-49.
- 1986 [The Steady Problem](#), J. J. O'Brien, editor, *Advanced physical oceanographic numerical modelling*, Reidel Press, 51-72.
- 1987 [Trends in sea level in the western and central equatorial Pacific during 1974/75-1981](#), *J. Geophys. Res.-Oceans*, 92, No. C5, 5045-5051, (with M. Inoue).
- 1987 [Interannual variability in the tropical Pacific for the period 1979-1982](#), *J. Geophys. Res.*, 92, No. C11, 11,671-11,679, (with M. Inoue, W. White and S. Pazan).

- 1988 [Variability of the upper tropical Pacific Ocean model](#), *J. Geophys. Res.- Ocean*, 93, No.C11, 13,930-13,940, (with M. Kubota).
- 1988 [Verification of a numerical ocean model of the Arabian Sea](#), *J. Geophys. Res.-Ocean*, 93, No. C12, 15,437-15,453, (with M. E. Luther, R. Simmons and D. M. Legler).
- 1988 [On the prediction of the El Nino of 1986-1987](#), *Science*, 241, pp. 192-196, (with T. Barnett, N. Graham, M. Cane, S. Zebiak, S. Dolan and D. M. Legler).
- 1988 [Realizing Two-Dimensional Continuous Directed Fields by Vector Fields and an Algorithm to Remove Dichotomous Ambiguity in a Discrete Field](#), *Mathl. Comput. Modelling*, 10, No. 11, 853-862, (with W. H. Heil and B. Cushman-Roisin).
- 1988 [Tropical Pacific wind stress analysis for TOGA, IOC Time Series on Ocean Measurements](#), 4, IOC Tech. Series 33, UNESCO, pp. 11-17, (with D. Legler).
- 1989 [Scales of north Atlantic wind stress curl determined from COADS](#), *J. Geophys. Res.-Ocean*, 94, No. C1, 831-841, (with L. L. Ehret).
- 1989 [On the determination of hydraulic model parameters using the adjoint state formulation](#), *Modelling Marine Systems*, 1, 5-18, CRC Press, edited by A. Davies (with V.G. Panchang).
- 1989 [The seasonal and interannual variability of the California current system: A numerical model](#), *J. Geophys. Res. -Oceans*, 94, No. C3, 3159-3180, (with A. Pares-Sierra).
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