

## Curriculum Vitae

### Allan J. Clarke

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### Education

- 1976\* Ph.D., Department of Applied Mathematics and Theoretical Physics,  
Cambridge University, England
- 1972 First Class Honours B.Sc. in Applied Mathematics, Adelaide, Australia

### Employment

- 1990-present Professor, Department of Oceanography (now EOAS), Florida State University
- 1984-90 Associate Professor, Department of Oceanography, Florida State University
- 1981-84 Assistant Professor, Department of Oceanography, Florida State University
- 1978-81 Research Associate (rank corresponding to Research Assistant Professor),  
Department of Oceanography, University of Washington
- 1976-77 Post Doc. Res. Associate, Det. of Earth & Planetary Sciences, MIT.

### Summer & Sabbatical Activities

- Summers 1979-80,82,85-87,89-96 Guest Investigator, Woods Hole Oceanographic Institution
- Spring 1988 Visiting Scientist, Commonwealth Scientific and Industrial Research  
Organization (CSIRO), Australia
- Summers 1983-84 Visiting Scientist, CSIRO, Australia
- Summer 2000 Lead Instructor: Australian Summer School on El Niño/Southern Oscillation. Flinders  
University, Adelaide, Australia

### Honors and Awards

- 1968-71 Commonwealth University Scholarship
- 1972-75 George Murray Overseas Scholarship
- 1974 Woods Hole Summer Fellowship in Geophysical Fluid Dynamics
- 1974 J.T. Knight Prize, Cambridge University
- 1984 Developing Scholar Award, Florida State University
- 1995-96 Teaching Incentive Program (TIP) Award, Florida State University
- 1999 Professional Excellence Program (PEP) Award, Florida State University
- 2000 Graduate Teaching Award, Florida State University
- 2000 Fellow, Royal Meteorological Society
- 2001 Fellow, American Meteorological Society
- 2001 Distinguished Research Professor, Florida State University
- 2002 The Adrian E. Gill Professor of Oceanography
- 2011 Nominated for Distinguished Teaching Award, Florida State University
- 2012 Sverdrup Gold Medal, American Meteorological Society
- 2014 Nominated for Distinguished Teaching Award, Florida State University
- 2015 Fellow, American Geophysical Union

*\*PhD work was completed in 1976 but official graduation (in absentia when I was at MIT as a postdoc) was in 1977.*

## Service

Chief guest editor for a special *Journal of Marine Research* issue honoring Professor Melvin E. Stern, Member of the National Academy of Sciences. [*J. Mar. Res.* **69**(4-6), 2011].

## Research Grants

*The Effect of Continental Shelves on Tides* in the amount of \$45,518 from NSF (OCE-79-97042) for the period 7/15/79 - 7/14/80.

*Equatorial Dynamics* in the amount of \$15,966 from NOAA (JISAO) for the period 4/15/80 - 8/15/80.

*A Study of Some Aspects of Southern Oscillation Dynamics* in the amount of \$20,944 from NASA for the period 9/1/81 - 8/31/82.

*The Nonlinear Generation of Long Period Tides on Continental Shelves* in the amount of \$98,651 from NSF (OCE-80-07422 and OCE-81-18051) for the period 7/1/80 - 4/30/84.

*Wind-Driven Motions on Continental Shelves with Application to the West Florida Shelf* in the amount of \$82,000 from NSF (OCE-83-00029) for the period 3/15/83 - 8/31/85.

*Numerical Calculations for the Australian Coastal Experiment* in the amount of \$9,986 from CSIRO for the period 2/27/84 - 2/26/85.

*Wind-Driven Motions on Continental Shelves in the Presence of Sloping Mean Density Surfaces* in the amount of \$248,000 from NSF (OCE-85-00669) for the period 3/15/85 - 8/31/88.

*An Observational and Theoretical Study of the Effect of Continental Shelf Geometry on Shelf Sea Level and Current Fluctuations* in the amount of \$110,436 from NSF (OCE-85-15979) for the period 12/1/85 - 5/31/89.

*Seasonal and Interannual Continental Shelf and Slope Flows* in the amount of \$284,000 from NSF (OCE-87-23157) for the period 4/1/88 - 3/31/91.

*Western Pacific Reflection and ENSO Dynamics* in the amount of \$394,000 from NSF (OCE-90-12058) for the period 10/1/90-9/30/94.

*An Analysis of Atlantic and Indian Ocean Low Frequency Sea Level Variability* in the amount of \$160,940 from NOAA for the period 10/1/91-6/30/94.

*The Biennial Oscillation and El Niño/Southern Oscillation (ENSO) Dynamics* in the amount of \$650,000 from NSF (OCE-93-01794) for the period 8/1/93-7/31/97.

*Using Dynamics and Observations to Assess and Understand Sea Level Rise and Low Frequency Currents on Eastern Ocean Boundaries* in the amount of \$195,000 from NSF (OCE-94-15644) for the period 12/15/94-11/30/97.

*El Niño/Southern Oscillation Dynamics and Decadal Variability* in the amount of \$398,000 from NSF (OCE-96-17304) for the period 04/01/97-03/31/2000.

*Biennial Variability and the Spring Persistence Barrier in ENSO* in the amount of \$605,000 from NSF (OCE-98-18650) for the period 03/01/99-02/28/2004.

*Observations and Dynamics of Interannual Coastal Flows* in the amount of \$808,834 from NSF (OCE-0220563) for the period 09/01/02-08/31/07.

*Observations, Physics and Modeling of the Phase-Locking of El Niño/Southern Oscillation (ENSO) to the Calendar Year* (with K.Y. Kim) in the amount of \$352,968 from NSF (ATM-0326799) for the period 09/01/03-08/31/07.

*Using Satellite Data to Understand the Upper Ocean Heat Content in the Equatorial Pacific* (fellowship for G. Colantuono/D. Carlson/E. Maksimova) in the amount of \$72,000 from NASA for the period 09/15/04-09/14/09.

*Physical and Biological Monitoring of Karenia Red Tides in the Big Bend Area, Florida* (with M. Sullivan) in the amount of \$150,000 from the Fish and Wildlife Research Institute for the period 11/14/06-06/15/07.

*Interannual and Decadal Variability in the Equatorial Pacific Atmosphere and Ocean* in the amount of \$334,307 from NSF (ATM-0623402) for the period 12/15/06-11/30/09.

*Biological and Physical Monitoring of Karenia Red Tides in the Big Bend Area, Florida* in the amount of \$82,484 from the Fish and Wildlife Research Institute for the period 07/25/07-06/30/08.

*Biological and Physical Monitoring of Karenia Red Tides in the Big Bend Area, Florida 2008-2009* (DO1161330) in the amount of \$105,000 from the Fish and Wildlife Research Institute for the period 10/01/08-06/30/09.

*Equatorial Wave Reflection and Equatorial Warm Water Volume*, in the amount of \$400,000 from NSF (OCE-0850749) for the period 06/01/09-05/31/13.

*An Operational Prediction Scheme For Florida's Winter Temperatures*, in the amount of \$10,000 from the Florida Climate Institute 02/24/11.

*A long-term, interdisciplinary study of Deep-Sea-to-coast connectivity in the northeastern Gulf of Mexico*, from the Consortium for Ocean Leadership (Deep-C award SA 12-12/GoMRI-008) (PI Eric Chassignet) in the amount of \$383,747 for the period 10/01/11-12/31/14.

*Understanding observed equatorial Pacific, Indian and Atlantic Ocean Interannual Flow using Theory and High Resolution ECCO2 model results*, in the amount of \$485,424 from NSF, (OCE-1155257) (Co-PI Lucia Bunge) for the period 02/15/12-01/15/15.

*The salinity-driven low-frequency equatorial flow*, in the amount of \$338,572 from NASA for the period 07/01/14-06/30/17.

*The transport of oil to the coast in the top centimeter of the water column*, in the amount \$432,920 from NAS for the period 12/04/15-12/03/17.

## Other Funding

*Northeastern Gulf of Mexico Physical Oceanography Workshop*, Florida State University, April 5-7, 1994. \$40,000 was provided by the MMS (Cooperative Agreement 14-35-0001-30712) for the period 9/27/93-12/27/94. An additional \$6,000 budget (SRAD funds) was contributed toward workshop expenses by Dr. W. Burnett, Chairman, Oceanography Department and Dr. L. Abele, Dean, College of Arts and Sciences, Florida State University.

## Refereed Publications

[My Hirsch h-index = 30, based on the Web of Science and 35 based on Google Scholar. The h index is used by major scientific organizations to evaluate both the productivity and quality of a scholar's research. A scholar with an h index of 30 has published 30 papers, each of which has been cited at least 30 times.

1. Gill, A. E., and A. J. Clarke, 1974: Wind-induced upwelling, coastal currents and sea-level changes. *Deep-Sea Res.*, **21**, 325-345.
2. Clarke, A. J., 1977: Observational and numerical evidence for wind-forced coastally trapped long waves. *J. Phys. Oceanogr.*, **7**(2), 231-247.
3. Clarke, A. J., 1977: Wind-forced linear and nonlinear Kelvin waves along an irregular coastline. *J. Fluid Mech.*, **83**, 337-348.
4. Clarke, A. J., 1978: On wind-driven quasi-geostrophic water movements near fast-ice edges. *Deep-Sea Res.*, **25**, 41-51.
5. Clarke, A. J., 1979: On the generation of the seasonal coastal upwelling in the Gulf of Guinea. *J. Geophys. Res.*, **84**(C7), 3743-3751.
6. Clarke, A. J., and D. S. Battisti, 1981: The effect of continental shelves on tides. *Deep-Sea Res. A*, **28**(7), 665-682.

7. Battisti, D. S., and A. J. Clarke, 1982: A simple method for estimating barotropic tidal currents on continental margins with specific application to the M<sub>2</sub> tide off the Atlantic and Pacific coasts of the United States. *J. Phys. Oceanogr.*, **12**, 8-16.
8. Battisti, D. S., and A. J. Clarke, 1982: Estimation of nearshore tidal currents on nonsmooth continental shelves. *J. Geophys. Res.*, **87**(C10), 7873-7878.
9. Clarke, A. J., 1982: Dynamics of large-scale, wind-driven variations in the Antarctic Circumpolar Current. *J. Phys. Oceanogr.*, **12**(10), 1092-1105.
10. Clarke, A. J., 1983: The reflection of equatorial waves from oceanic boundaries. *J. Phys. Oceanogr.*, **13**(7), 1193-1207.
11. Clarke, A. J., and D. S. Battisti, 1983: Identification of the fortnightly wave observed along the northern coast of the Gulf of Guinea. *J. Phys. Oceanogr.*, **13**, 2192-2200.
12. Clarke, A. J., and R.O.R.Y. Thompson, 1984: Large-scale wind driven ocean response in the Australian Coastal Experiment region. *J. Phys. Oceanogr.*, **14**(2), 338-352.
13. Clarke, A. J., and K. H. Brink, 1985: The response of stratified, frictional shelf and slope waters to fluctuating large-scale low-frequency wind forcing. *J. Phys. Oceanogr.*, **15**(4), 439-453.
14. Church, J. A., N. J. White, A. J. Clarke, H. W. Freeland, and R. L. Smith, 1986: Coastal- trapped waves on the East Australian Continental Shelf. Part II: Model verification. *J. Phys. Oceanogr.*, **16**(11), 1945-1957.
15. Clarke, A. J., and S. Van Gorder, 1986: A method for estimating wind-driven frictional, time-dependent, stratified shelf and slope water flow. *J. Phys. Oceanogr.*, **16**(6), 1013-1028.
16. Freeland, H. J., F.M. Boland, J. A. Church, A. J. Clarke, A. M. G. Forbes, A. Huyer, R. L. Smith, R.O.R.Y. Thompson, and N.J. White, 1986: The Australian Coastal Experiment: A search for coastal-trapped waves. *J. Phys. Oceanogr.*, **16**(7), 1230-1249.
17. Mitchum, G. T., and A. J. Clarke, 1986: The frictional nearshore response to forcing by synoptic scale winds. *J. Phys. Oceanogr.*, **16**(5), 934-946.
18. Mitchum, G. T., and A. J. Clarke, 1986: Evaluation of frictional, wind-forced long-wave theory on the west Florida shelf. *J. Phys. Oceanogr.*, **16**(6), 1029-1037.
19. Clarke, A. J., 1987: The origin of the coastal trapped waves observed during the Australian Coastal Experiment. *J. Phys. Oceanogr.*, **17**(11), 1847-1859.
20. Clarke, A. J., and M. Lopez, 1987: The influence of sloping mean density surfaces on low-frequency shelf water flow. *J. Phys. Oceanogr.*, **17**(4), 507-517.
21. Rocha C., C. A., and A. J. Clarke, 1987: Interaction of ocean tides through a narrow single strait and narrow multiple straits. *J. Phys. Oceanogr.*, **17**(12), 2203-2218.
22. Clarke, A. J., 1988: Inertial wind path and sea surface temperature patterns near the Gulf of Tehuantepec and Gulf of Papagayo. *J. Geophys. Res.*, **93**(C12), 15491-15501 and 15765-15766.
23. Lopez, M., and A. J. Clarke, 1989: The wind-driven shelf and slope water flow in terms of a local and a remote response. *J. Phys. Oceanogr.*, **19**(8), 1091-1101. [http://dx.doi.org/10.1175/1520-0485\(1989\)019<1091:TWDSAS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1989)019<1091:TWDSAS>2.0.CO;2)
24. Clarke, A. J., 1989: Theoretical understanding of eastern ocean boundary poleward undercurrents. In *Poleward Flows along Eastern Ocean Boundaries*, ed. by S.J. Neshyba, Ch.N.K. Mooers, R.L. Smith, R.T. Barber, Springer-Verlag, pp. 26-39.
25. Clarke, A. J., 1990: Application of a frictional channel flow theory to flow in the Prince of Wales Channel, Torres Strait. *J. Phys. Oceanogr.*, **20**(6), 890-899. [http://dx.doi.org/10.1175/1520-0485\(1990\)020<0890:AOAFCF>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1990)020<0890:AOAFCF>2.0.CO;2)
26. Church, J. A., A. J. Clarke, N. J. White, H. J. Freeland, and R. L. Smith, 1990: Energy conservation in the Australian Coastal Experiment coastal-trapped wave calculations. *J. Phys. Oceanogr.*, **20**, 1113-1114. [http://dx.doi.org/10.1175/1520-0485\(1990\)020<1113:ECITAC>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1990)020<1113:ECITAC>2.0.CO;2)

27. Clarke, A. J., 1991: The dynamics of barotropic tides over the continental shelf and slope. In *Advances in Tidal Hydrodynamics*, ed. by B.B. Parker, John Wiley & Sons, Inc., pp. 79-108.
28. Clarke, A. J., 1991: On the reflection and transmission of low-frequency energy at the irregular western Pacific Ocean boundary. *J. Geophys. Res.: Oceans*, **96**(S01), 3289-3305.
29. Clarke, A. J., and C. Shi, 1991: Critical frequencies at ocean boundaries. *J. Geophys. Res.*, **96**(C6), 10731-10738. doi:10.1029/91JC00933, 1991.
30. Clarke, A. J., 1992: Low frequency reflection from a non-meridional eastern ocean boundary and the use of coastal sea level to monitor eastern Pacific equatorial Kelvin waves. *J. Phys. Oceanogr.*, **22**(2), 163-183. [http://dx.doi.org/10.1175/1520-0485\(1992\)022<0163:LFRFAN>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1992)022<0163:LFRFAN>2.0.CO;2)
31. Clarke, A. J., and X. Liu, 1993: Observations and dynamics of semiannual and annual sea levels near the eastern equatorial Indian Ocean boundary. *J. Phys. Oceanogr.*, **23**(2), 386-399. [http://dx.doi.org/10.1175/1520-0485\(1993\)023<0386:OADOSA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1993)023<0386:OADOSA>2.0.CO;2)
32. López-Mariscal, M., and A. J. Clarke, 1993: On the influence of wind stress curl on low-frequency shelf water flow. *J. Phys. Oceanogr.*, **23**(12), 2717-2727. [http://dx.doi.org/10.1175/1520-0485\(1993\)023<2717:OTIOWS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1993)023<2717:OTIOWS>2.0.CO;2)
33. Clarke, A. J., and S. Van Gorder, 1994: On ENSO coastal currents and sea levels. *J. Phys. Oceanogr.*, **24**(3), 661-680. [http://dx.doi.org/10.1175/1520-0485\(1994\)024<0661:OECCAS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1994)024<0661:OECCAS>2.0.CO;2)
34. Li, B. and A. J. Clarke, 1994: An examination of some ENSO mechanisms using interannual sea level at the eastern and western equatorial boundaries and the zonally averaged equatorial wind. *J. Phys. Oceanogr.*, **24**(3), 681-690. [http://dx.doi.org/10.1175/1520-0485\(1994\)024<0681:AEOSEM>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1994)024<0681:AEOSEM>2.0.CO;2)
35. Clarke, A. J., and X. Liu, 1994: Interannual sea level in the northern and eastern Indian Ocean. *J. Phys. Oceanogr.*, **24**(6), 1224-1235. [http://dx.doi.org/10.1175/1520-0485\(1994\)024<1224:ISLITN>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1994)024<1224:ISLITN>2.0.CO;2)
36. Clarke, A. J., 1994: Why are surface equatorial ENSO winds anomalously westerly under anomalous large-scale convection? *J. Climate*, **7**(10), 1623-1627. [http://dx.doi.org/10.1175/1520-0442\(1994\)007<1623:WASEEW>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1994)007<1623:WASEEW>2.0.CO;2)
37. Clarke, A. J., and B. Li, 1995: On the timing of warm and cold El Niño–Southern Oscillation events. *J. Climate*, **8**(10), 2571-2574. [http://dx.doi.org/10.1175/1520-0442\(1995\)008<2571:OTTOWA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1995)008<2571:OTTOWA>2.0.CO;2)
38. Clarke, A. J., and A. Lebedev, 1996: Long-term changes in the equatorial Pacific trade winds. *J. Climate*, **9**(5), 1020-1029. [http://dx.doi.org/10.1175/1520-0442\(1996\)009<1020:LTCITE>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1996)009<1020:LTCITE>2.0.CO;2)
39. Clarke, A. J., and A. Lebedev, 1997: Interannual and decadal changes in equatorial wind stress in the Atlantic, Indian and Pacific Oceans and the eastern ocean coastal response. *J. Climate*, **10**(7), 1722-1729. [http://dx.doi.org/10.1175/1520-0442\(1997\)010<1722:IADCIE>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1997)010<1722:IADCIE>2.0.CO;2)
40. Clarke, A. J., X. Liu and S. Van Gorder, 1998: Dynamics of the biennial oscillation in the equatorial Indian and far western Pacific Oceans. *J. Climate*, **11**(5), 987-1001.
41. Sturges, W., B. G. Hong, and A. J. Clarke, 1998: Decadal wind forcing of the North Atlantic subtropical gyre. *J. Phys. Oceanogr.*, **28**(4), 659-668. [http://dx.doi.org/10.1175/1520-0485\(1998\)028<0659:DWFOTN>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1998)028<0659:DWFOTN>2.0.CO;2)
42. Clarke, A. J., and R. Ahmed, 1999: Dynamics of remotely forced intraseasonal oscillations off the western coast of South America. *J. Phys. Oceanogr.*, **29**(2), 240-258. [http://dx.doi.org/10.1175/1520-0485\(1999\)029<0240:DORFIO>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1999)029<0240:DORFIO>2.0.CO;2)

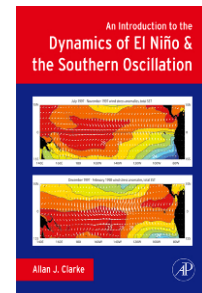
43. Clarke, A. J., and S. Van Gorder, 1999: The connection between the boreal spring Southern Oscillation persistence barrier and the biennial oscillation. *J. Climate*, **12**(2), 610-620. [http://dx.doi.org/10.1175/1520-0442\(1999\)012<0610:TCBTBS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1999)012<0610:TCBTBS>2.0.CO;2)
44. Clarke, A. J., and A. Lebedev, 1999: Remotely driven decadal and longer changes in the coastal Pacific waters of the Americas. *J. Phys. Oceanogr.*, **29**(4), 828-835. [http://dx.doi.org/10.1175/1520-0485\(1999\)029<0828:RDDALC>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1999)029<0828:RDDALC>2.0.CO;2)
45. Clarke, A. J., and S. Van Gorder, 2000: Reply to 'Comment on The connection between the boreal spring Southern Oscillation persistence barrier and biennial variability.' *J. Climate*, **13**(3), 668-671. [http://dx.doi.org/10.1175/1520-0442\(2000\)013<0668:R>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(2000)013<0668:R>2.0.CO;2)
46. Clarke, A. J., and L. Shu, 2000: Quasi-biennial winds in the far western equatorial Pacific phase-locking El Niño to the seasonal cycle. *Geophys. Res. Letters*, **27**(6), 771-774. doi:10.1029/1999GL010506, 2000.
47. Clarke, A. J., J. Wang and Van Gorder, 2000: A simple warm-pool displacement ENSO model. *J. Phys. Oceanogr.*, **30**(7), 1679-1691; Corrigendum *JPO*, **30**(12), 3271. [http://dx.doi.org/10.1175/1520-0485\(2000\)030<1679:ASWPDE>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2000)030<1679:ASWPDE>2.0.CO;2)
48. Hong, B. G., W. Sturges and A. J. Clarke, 2000: Sea level on the U.S. east coast: Decadal variability caused by open ocean wind-curl forcing. *J. Phys. Oceanogr.*, **30**(8) 2088-2098. [http://dx.doi.org/10.1175/1520-0485\(2000\)030<2088:SLOTUS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2000)030<2088:SLOTUS>2.0.CO;2)
49. Clarke, A. J., and S. Van Gorder, 2001: ENSO prediction using an ENSO trigger and a proxy for western equatorial Pacific warm pool movement. *Geophys. Res. Letters*, **28**(4), 579-582. doi:10.1029/2000GL012201, 2001.
50. Pizarro, O., A. J. Clarke, and S. Van Gorder, 2001: El Niño sea level and currents along the South American coast: Comparison of observations with theory. *J. Phys. Oceanogr.*, **31**(7), 1891-1903. [http://dx.doi.org/10.1175/1520-0485\(2001\)031<1891:ENOSLA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2001)031<1891:ENOSLA>2.0.CO;2)
51. Shu, L., and A. J. Clarke, 2002: Using an ocean model to examine ENSO dynamics. *J. Phys. Oceanogr.*, **32**(3), 903-923. [http://dx.doi.org/10.1175/1520-0485\(2002\)032<0903:UAOMTE>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(2002)032<0903:UAOMTE>2.0.CO;2)
52. Clarke, A. J., and S. Van Gorder, 2003: Improving El Niño prediction using a space-time integration of Indo-Pacific winds and equatorial Pacific upper ocean heat content. *Geophys. Res. Letters*, **30**(7), doi:10.1029/2002GL016673, 2003.
53. Clarke, A. J., and J. Li, 2004: El Niño/La Niña shelf edge flow and Australian western rock lobsters. *Geophys. Res. Letters*, **31**(11), L11301 doi:10.1029/2003GL018900, 02 June 2004.
54. Li, J., and A. J. Clarke, 2004: Coastline direction, interannual flow and the strong El Niño currents along Australia's nearly zonal southern coast. *J. Phys. Oceanogr.*, **34**(11), 2373-2381. <http://dx.doi.org/10.1175/JPO2645.1>
55. Clarke, A. J., and K. Y. Kim, 2005: On weak zonally symmetric ENSO atmospheric heating and the strong zonally symmetric ENSO air temperature response. *J. Atmos. Sciences*, **62**(6), 2012-2022. <http://dx.doi.org/10.1175/JAS3448.1>
56. Li, J., and A. J. Clarke, 2005: Sea surface temperature and the brown shrimp (*Farfantepenaeus aztecus*) population on the Alabama, Mississippi, Louisiana and Texas continental shelves. *Estuarine, Coastal and Shelf Science*, **64**(2), 261-266.
57. Li, J., and A. J. Clarke, 2005: Interannual flow along the northern coast of the Gulf of Mexico. *J. Geophys. Res. Oceans*, **110**(C11), C11002, doi:10.1029/2004JC002606, 2005.
58. Clarke, A. J., and K. Y. Kim, 2005: The response time of the temperature of the equatorial troposphere to ENSO heating. *J. Atmos. Sciences*, **62**(12), 4412-4422. <http://dx.doi.org/10.1175/JAS3625.1>
59. Clarke, A. J., S. Van Gorder, and G. Colantuono, 2007: Wind stress curl and ENSO discharge/recharge in the equatorial Pacific. *J. Phys. Oceanogr.*, **37**(4), 1077-1091. <http://dx.doi.org/10.1175/JPO3035.1>

60. Everingham, Y. L., A. J. Clarke and S. Van Gorder, 2007: Long lead rainfall forecasts for the Australian sugar industry. *Int. J. Climatol.* **28**(1), 111-117. doi:10.1002/joc.1513.
61. Li, J., and A. J. Clarke, 2007: Interannual sea level variations in the South Pacific 5° – 28°S. *J. Phys. Oceanogr.*, **37**(12) 2882–2894. <http://dx.doi.org/10.1175/2007JPO3656.1>
62. Clarke, A. J., and M. Dottori, 2008: Planetary wave propagation off California and its effect on zooplankton. *J. Phys. Oceanogr.*, **38**(3), 702-714. <http://dx.doi.org/10.1175/2007JPO3691.1>
63. Carlson, D., and A. J. Clarke, 2008: Seasonal along-isobath geostrophic flows on the west Florida shelf with application to *Karenia brevis* red tide blooms in Florida’s Big Bend. *Continental Shelf Research*, **29**, 445-455. doi:10.1016/j.csr.2008.11.003.
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