

VITAE

NAME: Robert H. Weisberg

DATE OF BIRTH: May 20, 1947

PRESENT POSITION: Distinguished University Professor
College of Marine Science
University of South Florida
140 Seventh Avenue South
St. Petersburg, Florida 33701
727-553-1568
weisberg@usf.edu

EDUCATION:

Cornell University: B.S. (Material Science & Engineering) 1969
University of Rhode Island: M.S. (Physical Oceanography) 1972
University of Rhode Island: Ph.D. (Physical Oceanography) 1975

PROFESSIONAL EXPERIENCE:

08/88-05/07	Professor, College of Marine Science, USF
12/86-08/88	Associate Professor, Department of Marine Science, USF
08/84-08/85	Associate Professor, Department of Marine Science, USF
12/86-05/90	Adjunct Professor, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh NC
08/81-12/86	Associate Professor, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC
08/76-08/81	Assistant Professor, Department of Marine Science and Engineering, North Carolina State University, Raleigh, NC
11/76-08/82	Adjunct Professor, Graduate School of Oceanography, University of Rhode Island, Kingston, RI
05/74-08/76	Research Associate, Graduate School of Oceanography, University of Rhode Island, Kingston, RI
09/69-05/74	Research Assistant, Graduate School of Oceanography, University of Rhode Island, Kingston, RI
06/71-08/71	Instructor, St. Georges School, Newport, RI
08/69-08/77	U.S. Army Reserve, rank O3

HONORS:

Wiley Publishers Certificate: Top 10% downloaded papers in J. Geophys. Res.- Oceans for 12 mo. following publication, 2020

Fellow, SURA
 Phi Kappa Phi Honor Society and USF Chapter Scholar of the Year, 2011
 NOPP Excellence in Partnering Award, 2007
 Distinguished University Professor, 2007
 President's award for excellence, USF, 2003
 Professorial Excellence Award, USF, 1998
 American Geophysical Union Editor's citation for excellence in refereeing for
 Geophysical Research Letters, 1995
 Sigma Xi

PROFESSIONAL AFFILIATIONS:

Oceanography Society
 American Geophysical Union
 American Meteorological Society

TEACHING:

Introductory Physical Oceanography
 Gravity Waves
 Long Waves
 Analysis of Oceanographic Time Series
 Ocean Circulation Dynamics I & II
 Readings in Ocean Circulation
 Equatorial Dynamics
 Readings in Descriptive Physical Oceanography
 Seminar
 Environmental Fluid Mechanics
 Readings in Climate Modeling
 Ocean Mixed Layer
 Lectures in Introduction to Oceanography

GRADUATE STUDENT COMMITTEE CHAIRMANSHIPS:

R. Chao	M.S.	05/80	NCSU
M. Purba	M.S.	05/82	NCSU
C.K. Wu	M.S.	05/82	NCSU
A. Horigan	Ph.D.	05/82	URI (Co-Chairman)
T.Y. Tang	Ph.D.	05/84	NCSU
C.K. Wu	Ph.D.	05/85	NCSU
T.J. Weingartner	Ph.D.	05/90	NCSU
Zhen Li	M.S.	12/93	USF
M.R. Zhang	M.S.	08/94	USF
C. Wang	Ph.D.	08/95	USF
L. Qiao	Ph.D.	05/96	USF

Zhenjiang Li	Ph.D.	05/98	USF
B. Black	M.S.	08/98	USF
E. Siegel	M.S.	5/99	USF
R. He	Ph.D.	5/02	USF
R. Helber	Ph.D.	5/03	USF
J. Virmani	Ph.D.	5/05	USF
Y. Liu	Ph.D.	5/06	USF
J. Zhu	Ph.D.	6/15	OU, PRC
A. Reinert	M.S.	5/16	USF
B. O'Loughlin	M.S.	12/16	USF

Summary: PhDs awarded, 12 total, 8 at USF
 MSs awarded, 9 total, 6 at USF

Note: two of my former students are designated Distinguished University Professors, Ruoying He at North Carolina State University and Chunzai Wang at the Chinese Academy of Sciences.

OTHER CURRENT GRADUATE STUDENT COMMITTEES:

I presently supervise 4 graduate students and I serve on the committees of 1 other graduate student.

OTHER PERSONNEL SUPERVISION:

I presently supervise 4.5 professional research staff (3 with PhD).

Mentoring of 11 post-doctoral associates, 5 outside of my pool of students.

EDITOR:

Editor, Journal of Geophysical Research – Oceans, 2006-2010.

International Advisory Board, Terrestrial, Atmosphere & Ocean Sciences, Chinese Geoscience Union, Taipei, Taiwan, 1998-2007.

Guest editor, Geophysical Research Letters, special issue, SEQUAL/FOCAL: First Year Results on the Circulation in the Equatorial Atlantic, 11 August 1984.

Co-editor, with Y. Liu, A. MacFadyen and Z.-G. Ji, Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series, Vol. 195, 271 PP., ISSN: 0065-8448, ISBN 978-0-87590-485-6. AGU/geopress, 2011, Washington D.C.

Co-editor, with Y. Liu and H. Kerkering *Coastal Ocean Observing Systems*, Elsevier, London, ISBN: 978-0-12-802022-7, 2015, 461pp.

REFeree:

National Science Foundation
NOAA-Sea Grant
NOAA-ERL
NOAA-OGP
Journal of Physical Oceanography
Geophysical Research Letters
Journal of Marine Research
Deep-Sea Research
Science
Nature
Journal of Geophysical Research
Oceanologia Acta
Progress in Oceanography
Journal of Climate
Marine Technology Society
EOS
Dynamics of the Atmosphere and Ocean
MTS Journal
Hudson River Foundation
WHOI Sea Grant
Georgia Sea Grant
NOPP
NASEM
Schmidt Ocean

CONSULTING:

EG&G Environmental Consultants, 1975-1976
Harbridge House, 1976-1977
Earth Resources & Technology, 1977
Jaycor, 1978-1980
Science Applications Inc., 1982
Research Triangle Institute, 1984
Florida Dept. of Environmental Regulation, 1985-1989
Town of Redington Beach (pro bono), 1988
Shore Acres Citizens (pro bono), 1989
Northwest Florida Water Management District, 1991-1994
State Attorney, 1991, 1994, 1997
Consultant to US Army Corps of Engineers, 1992-1993, 1995-1996
Consultant to King Engineering, 1992
Environmental Permitting Inc., 1994
St. Petersburg Police Dept., 1994
Coastal Planning and Engineering, 1996
Ocean Farming, 1998
City of Gulfport, FL., 2000

Ft. DeSoto Boat Storage, 2000
NOVA Southeastern Univ., 1998-2004
CORE/JOI/SURA, 2006
Research Planning Inc., 2006-2007
Manatee Co. Emergency Management, 2007
LIST Group/WoodsConsulting, 2008
Williams Pipeline, 2010
Expert Witness Testimony/Investigations for various law firms, 1990-present
Lighthouse Technical Consultants Inc., 2019-present.

CIVIC SERVICE:

Youth Soccer Coach, Capital Area Soccer League, Raleigh, NC., 1982-1983.
Assistant Youth Soccer Coach, Southside Soccer League, St. Petersburg, FL. 1987.
Board of Trustees, Congregation B'nai Israel, St. Petersburg, FL., 1988-1996
3rd Vice Pres., Congregation B'nai Israel, St. Petersburg, FL., 1989-1990
2nd Vice Pres., Congregation B'nai Israel, St. Petersburg, FL., 1991
1st Vice Pres., Congregation B'nai Israel, St. Petersburg, FL., 1992-1993
President, Congregation B'nai Israel, St. Petersburg, FL., 1994-1996
Exec. Comm., Congregation B'nai Israel (as immediate past president), 1996-1999
Televised interview, WUSF Science Adventures series, 11/97 and 3/98.
Televised interview, Ch. 8 with Bob Hite, on El Nino 11/97; on WFS 2/02.
National Public Radio interview on El Nino with B. O'Brien, 3/98.
Televised interview on storm surge, Ch. 8, 2/98 and 8/00.
Newspaper article on storm surge (St. Pete. Times, J. Klinkenberg), 7/98.
Newspaper article on oil spills (Ft. Myers. News, K. Lawlor), 11/01.
Televised interview on coastal upwelling, Ch. 9 with Berardelli, 8/98.
Lectures on El Nino at St. Petersburg High School, 11/95, 11/97, 11/98.
Lectures on oceanography at John Hopkins Middle School, 11/00, 11/01, 11/02, 11/03, 11/04.
Public availability on the internet of real time monitored and delayed mode data and a model circulation nowcast/forecast for the west Florida continental shelf via <http://COMPS.marine.usf.edu> and <http://ocgweb.marine.usf.edu>.
Public availability on the internet of a power point hurricane storm surge simulation at <http://ocgweb.marine.usf.edu>.
Hurricane storm surge briefing at the NWS, Ruskin FL, 6/00
Hurricane storm surge briefing at the USGS, St. Petersburg FL, 9/02
Hurricane storm surge briefing at FEMA mtg, Redington Be. FL, 9/02
Hurricane storm surge briefing at Pinellas Co, Clearwater FL, 10/03
Numerous media hurricane storm surge interviews, summer/fall 2004
Numerous Tsunami media interviews, winter 2004
Numerous media (TV and print) hurricane storm surge interviews, summer/fall 2005
Numerous media (TV and print) hurricane storm surge interviews, summer/fall 2006
Invited keynote speaker, Town hall meeting of Congressman J. Davis, Tampa FL, 4/3/06
Letters to Senators, Congressmen, and Governor regarding oil drilling, spring 2006.

Invited panelist at showing of "An Inconvenient Truth," Tampa FL, spring 2006.
 Keynote speaker, WFAMS Annual Banquet (Worst case hurricane for TB), 6/06
 Keynote speaker, Manatee Co. Hurricane Awareness Meeting 6/07
 Numerous media (TV, print, radio) hurricane storm surge interviews, 2007
 Pro-bono consultant, Pinellas Co. property appraiser's office hurricane storm surge, 2007
 Numerous media (TV, print, radio) hurricane storm surge/coastal ocean interviews, 2008
 Meeting with Congresswoman K. Castor regarding oil drilling, fall 2008.
 Keynote speaker, SPB Hurricane Awareness Meeting, 6/09
 Numerous media (TV, print, radio) hurricane storm surge/coastal ocean interviews, 2009
 Board of Trustees, Menorah Manor Foundation, elderly care through nursing home and assisted living. 2003-2010
 Countless TV, radio, and print interviews on Deepwater Horizon oil spill, 2010.
 Numerous invited public presentations on Deepwater Horizon oil spill, 2010.
 Oil spill tracking forecasts used by NOAA Hazmat in their daily briefings, 2010.
 Numerous oil spill briefings to area Representatives (Young, Castor, Bilirakis) and Senator Nelson, 2010.
 Board of Trustees, Menorah Manor, elderly care through nursing home and assisted living. 2010-present; Treasurer 2012-2014.
 Florida Bar, Pinellas County Grievance Committee, 2010-2012.
 Testimony before House Committee on Natural Resources, Subcommittee on Insular Affairs, the Oceans and Wildlife, 6/15/10
 Invited op-ed. piece on oil spill, St. Petersburg Times, 6/5/11
 Testimony before House Transportation Committee, 12/7/11
 Invited op-ed. piece on oil spill, St. Petersburg Times, 1/31/12
 Board of Trustees, Menorah Manor, elderly care through nursing home and assisted living. Chairman of the Board Elect 2015-2018.
 Numerous red tide interviews
 Numerous Hurricane storm surge interviews
 National and local TV, radio, and newspaper interviews regarding the 2018 red tide.
 Several public speaking engagements regarding the 2018 red tide (see presentations).
 Chairman of the Board, Menorah Manor Incorporated, skilled nursing and senior living, 2018-2020

UNIVERSITY SERVICE:

Duke/UNC Oceanographic Consortium ship scheduling Committee 1982-1983,
 Chairman, 1983.
 UNC Representative to UNOLS: 1981-1984.
 University Computer Committee for Teaching and Research, 1987.
 University Research Council, 1987-1990.
 Faculty Advisory Committee for Research and Technology, 1989-1991.
 Graduate Research Professor Review Committee, 1990.
 University Task Force on Future Academic Frontiers, 1990, 1991.
 CAS Strategic Planning Committee.
 SACS committee on academic computing, 1993-1994.

Ocean Engineering Institute Steering Committee, 1993-1994.
 Chairman, Dept. Faculty Recruiting Committee, 1989-1990.
 Chairman, Dept. Computing Committee, 1986-1989.
 Chairman, Department Budget Committee, 1991-1993.
 Plus additional Dept. committee memberships not listed.
 Senior thesis advisor to Ms. E. Lipp, New College, S93
 Undergraduate student summer intern host for 2 New College juniors, 1990.
 Undergraduate student summer intern host for 1 Eckerd College junior, 1995.
 Undergraduate summer intern host, 1996.
 Director, USF Global Change Research Center (through 7/02)
 CAS Faculty Development Committee, 2000
 CAS 2010 Committee, 1999-2000
 CMS transition committee 2000, co-authored Mission Statement and Governance Docs.
 CMS Dean's Advisory Committee 2000-2002
 USF representative on the SFOMC Board of Directors
 Faculty mentor for G. Mitchum (T/P awarded 7/02), P. Howd, and M. Howell
 Co-author (with J.J. Walsh and P.R. Betzer) of QUEST FL., a joint institute for the
 Quantitative Ecology of the west Florida shelf.
 USF DUP Discipline committee, 2002, 2003, 2021
 USF Representative to the SURA Coastal Ocean Committee, 2003-2007
 Co-author (with J.J. Walsh) of COAR, a Center for Ocean Applied Research.
 Eminent Scholar Lecture Series committee and host, 2003-2008
 Chairman, CMS ad-hoc committee on additional compensation, 2003-2005.
 Faculty Senate 2005-2008
 USF committee on committees 2005-2008
 Ad-hoc committee on Dean search – drafted points of reference with A. Hine, spring-
 summer, 2006
 USF Budget Advisory Task Force, summer/fall 2007
 President's CMS Liaison Committee, Chairman, 2007
 Ad-hoc committee for World Class Scholar recruitment, 2007
 CMS tenure and promotion, admissions/awards committees, 2007-present
 Seminar speaker host, 2007
 USF Budget Working Group, 2008-2009
 USF Research Advisory Board, 2009-2014
 USF High Performance computer Comm., 2008-present
 Authored (with A. Hine) the successful FIO AISO proposal, 2009
 USF FESC, 2009-present.
 Application for Honorary Degree Preparation
 Faculty mentor for D. Chambers
 Seminar speaker host, 3/23/18
 Chem. Oceanogr. Search Committee co-Chair, 2018
 CMS DUP Discipline Committee, 2019-2020

OTHER PROFESSIONAL SERVICE:

Visiting Scientist Host, C. Colin, visiting scientist from ORSTOM, Paris: 1/85-5/86.
 NSF Review panel member, 1980, 1989, 1993.
 NOAA review panel member, 1990.
 U.S. WOCE Moored Measurement Implementation Panel, 1988, 1989.
 U.S. WOCE Process Studies Implementation Panel, 1988-1990.
 Session convener at the Fall 1994 Annual Meeting of the American Geophysical Union.
 Chairman, Science Advisory Committee, Tropical Ocean-Global Atmosphere (TOGA),
 Tropical Atmosphere Ocean (TAO) array, NOAA/PMEL, Dr. S. Hayes,
 Director, 1991.
 Technical Working Group, Apalachicola Bay, FL., NFWFMD, 1990-1995.
 USACOE, Biological review advisory panel on New York Bight, 1992-1993 and New
 York Harbor, 1994-1996.
 Science advisor to National Taiwan University Coastal Oceanography Program
 1991-2001.
 Member, TOGA-TAO array implementation panel, 1992-1995.
 Panel member, UNOLS intermediate vessel mid-life refit committee, 1992-1993.
 Tampa Bay National Estuary Program, Technical Advisory Committee, 1991-1992.
 Member, NOAA-OGP PACS Implementation panel 1996-1998.
 Member, NOAA-OGP, NAME, SSG 2000
 SURA SCOOP Leadership Group 2001-2003
 SE-COOS science steering committee 2001
 Organizing committee, IASI-IOCARIBE-RODAE workshop, Barbados W.I., 2002
 OCEAN.US Coastal Ocean Observing System summit resolution signatory, April, 2003
 Invited Juror, PhD defense for A. Barth, University of Liege, Liege, Belgium, 10/11/04.
 Invited Juror, PhD defense for A. Alvera, University of Liege, Liege, Belgium, 10/13/04.
 Chairman, SEACOOS Observational Working Group, 2002-2008.
 Member, SEACOOS Modeling Working Group, 2002-2008.
 Executive Committee member, SEACOOS, 2002-2008.
 AMS, STACS Coastal Environments Committee, 2002-2010.
 NOAA-Science Advisory Board, NCEP Ocean Modeling Review Comm., 2003-2009.
 Session Convener for the AGU 2007 joint assembly in Acapulco, MX.
 FL COOS Caucus member and contributor
 SURA SCOOP Leadership Group 2007-2010
 National Academies, National Research Council Committee on New Orleans Regional
 Hurricane Protection Projects, January 2006-2010.
 Team Leader, NRL (Stennis, MS) Battlespace Environments site review, 2009
 SURA CERC member, 2011-present
 SURA Fellow, 2011-present
 SECOORA BOD member, 2009-2014; 2016-present
 Pinellas Co. Technical Advisory Committee, Inlet Study, 2016-present.
 NAS Gulf Research Program Committee on Gulf of Mexico Loop Current Dynamics,
 2016-2018
 Acknowledged Reviewer, NASEM: The Future of the US Gulf Coast, 2018

LETTERS OF REFERENCE:

Promotion/tenure considerations

Government appointments

Assisted with a nomination citation for the 1988 AGU Ocean Science Award.

Assisted with USF DUP nominations.

Graduate Student applications

Chaired Macelwane award nomination for R. He

Reference letter for 2015 Vetlesen award application

Reference letter for 2017 Vetlesen award application

Nomination letter for USF honorary PhD.

Reference letter for AGU Fellow, 2020, 2021

BIBLIOGRAPHY

REFEREED PUBLICATIONS:

1. Duing, W., P. Hisard, C. Katz, J. Meincke, L. Miller, K.V. Moroshkin, G. Philander, A.A. Ribnikov, K. Voigt, and R. Weisberg (1975). Meander and Long Waves in the Equatorial Atlantic, *Nature*, 257, 380-384.
2. Weisberg, R.H. (1976). The non-tidal flow in the Providence River of Narragansett Bay: A stochastic Approach to Estuarine Circulation, *Jour. Phys. Oceanogr.*, 6, 721-734.
3. Weisberg, R.H. (1976). A note on estuarine mean flow estimation, *Jour. Mar. Res.*, 34, 387-394.
4. Weisberg, R.H. and W. Sturges (1976). Velocity observations in the West Passage of Narragansett Bay: A partially mixed estuary, *Jour. Phys. Oceanogr.*, 6, 345-354.
5. Weisberg, R.H. (1979). Equatorial waves during GATE and their relation to the mean zonal circulation, *Deep-Sea Res.*, Suppl. II to V. 26, 179-198.
6. Weisberg, R.H., A Horigan, and C. Colin (1979). Equatorially trapped Rossby-gravity wave propagation in the Gulf of Guinea, *Jour. Mar. Res.*, 37, 67-86.
7. Weisberg, R.H., L. Miller, J. Knauss, and A. Horigan (1979). Velocity observations in the equatorial thermocline during GATE, *Deep-Sea Res.*, Suppl. II to V. 26, 217-248.
8. Horigan, A.M. and R.H. Weisberg (1981). A systematic search for trapped equatorial waves in the GATE velocity data, *Jour. Phys. Oceanogr.* 11, 497-509.
9. Weisberg, R.H. and A.M. Horigan (1981). Low frequency variability in the equatorial Atlantic, *Jour. Phys. Oceanogr.*, 11, 913-920.
10. Weisberg, R.H. and L.J. Pietrafesa (1983). Kinematics and correlation of the surface Wind field in the South Atlantic Bight, *Jour. Geophys. Res.*, 88, 4592-4610.
11. Weisberg, R.H. and T.Y. Tang (1983). Equatorial ocean response to growing and moving wind systems with application to the Atlantic, *Jour., Mar. Res.*, 41, 461-486.
12. Tang, T.Y. and R.H. Weisberg (1984). On the response of the equatorial Pacific Ocean to the 1982/1983 El Nino - Southern Oscillation event, *Jour. Mar. Res.*, 42, 809-829.

13. Weisberg, R.H. (1984). SEQUAL/FOCAL: First year results on the circulation in the equatorial Atlantic, *Geophys. Res. Lett.*, 11, 713-714.
14. Weisberg, R.H. (1984). Instability waves observed on the equator in the Atlantic Ocean during 1983, *Geophys. Res. Lett.*, 11, 753-756.
15. Weisberg, R.H. (1984). Seasonal adjustment in the equatorial Atlantic during 1983 as seen by surface moorings, *Geophys. Res. Lett.*, 11, 733-735.
16. Weisberg, R.H. (1985). Equatorial Atlantic velocity and temperature observations: February-November 1981, *Jour. Phys. Oceanogr.*, 15, 533-543.
17. Weisberg, R.H. and T.Y. Tang (1985). On the response of the equatorial thermocline in the Atlantic Ocean to the seasonally varying winds, *Jour. Geophys. Res.*, 90, 7117-7128.
18. Philander, G., D. Halpern, D. Hansen, R. Legeckis, L. Miller, G. Paul, R. Watts, Wimbush, and R. Weisberg (1985). Long waves in the equatorial Pacific Ocean, The Oceanography Report, *EOS*, 4/2/85.
19. Weisberg, R.H. and C. Colin (1986). Equatorial Atlantic ocean temperature and current variations during 1983-1984, *Nature*, 322, 240-243.
20. Weisberg, R.H. and T.J. Weingartner (1986). On the baroclinic adjustment of the zonal pressure gradient in the equatorial Atlantic Ocean, *Jour. Geophys. Res.*, 91, 11717-11725.
21. Weisberg, R.H. and T.Y. Tang (1987). Further studies on the response of the equatorial thermocline in the Atlantic Ocean to the seasonally varying trade winds, *Jour. Geophys. Res.*, 92, 3709-3727.
22. Weisberg, R.H., D. Halpern, T.Y. Tang, and S.M. Hwang (1987). M tidal currents in the eastern equatorial Pacific Ocean, *Jour. Geophys. Res.*, 92, 3821-3826.
23. Weisberg, R.H., T.Y. Tang, T.J. Weingartner, and J.H. Hickman (1987). Velocity and temperature during the SEQUAL experiment at the equator, 28°W, *Jour. Geophys. Res.*, 92, 5061-5075.
24. Tang, T.Y., R.H. Weisberg, and D. Halpern (1988). Vertical structure of low frequency variability in the eastern equatorial Pacific Ocean, *J. Phys. Oceanogr.*, 18, 1009-1019.
25. Weisberg, R.H. and T.J. Weingartner (1988). Instability waves in the equatorial Atlantic Ocean, *J. Phys. Oceanogr.*, 18, 1641-1657.

26. Halpern, D. and R.H. Weisberg (1989). Upper ocean thermal and flow fields at 0°, 28°W (Atlantic) and 0°, 140°W (Pacific) during 1983-1985, *Deep-Sea Res.*, 36, 407-418.
27. Mayer, D.A., R.L. Molinari, and R.H. Weisberg (1990). Analysis of volunteer observing ship temperature fields in the tropical Atlantic Ocean. *Oceanologica Acta*, 13, 257-264.
28. Weisberg, R.H. and T.Y. Tang (1990). A linear analysis of equatorial Atlantic Ocean thermocline variability. *J. Phys. Oceanogr.*, 20, 1813-1825.
29. Weingartner, T.J. and R.H. Weisberg (1991). On the annual cycle of upwelling on the equator in the central Atlantic Ocean. *J. Phys. Oceanogr.*, 21, 68-82.
30. Weingartner, T.J. and R.H. Weisberg (1991). A description of the annual cycle in surface temperature and upper ocean heat in the equatorial Atlantic. *J. Phys. Oceanogr.*, 21, 83-96.
31. Galperin, B., A.F. Blumberg, and R.H. Weisberg (1992). The importance of density driven circulation in well mixed estuaries: The Tampa Bay experience, Proceeding Estuarine and Coastal Modelling, 2nd Int'l Conf./WW Div. ASCE, Tampa, FL. 1991.
32. Tang, T.Y. and R.H. Weisberg (1993). Seasonal variations in equatorial Atlantic Ocean zonal volume transport at 28°W, *Jour. Geophys. Res.*, 98, 10,145-10,153.
33. Mayer, D.A. and R.H. Weisberg: (1993). A description of COADS surface Meteorological fields and the implied Sverdrup transports for the Atlantic Ocean from 30 S to 60 N, *J. Phys. Oceanogr.*, 23, 2201-2221.
34. Wang, C. and R.H. Weisberg (1994). Equatorially trapped waves of a coupled ocean-atmosphere system, *J. Phys. Oceanogr.*, 24, 1978-1998.
35. Wang, C. and R.H. Weisberg (1994). On the “slow mode” mechanism of coupled ocean atmosphere models of the El Nino-Southern Oscillation (ENSO), *J. Climate*, 7, 1657-1667.
36. Jones, W.K., B. Galperin, R.H. Weisberg and T.S. Wu (1994). Influence of Sikes Cut on Apalachicola Bay, FL.; A preliminary analysis from a three-dimensional perspective, Proceeding Estuarine and Coastal Modelling, 3rd Int'l Conf./WW Div. ASCE, 1992.
37. Qiao, L. and R.H. Weisberg (1995). Tropical instability wave kinematics: Observations from the Tropical Instability Wave Experiment (TIWE), *Jour. Geophys. Res.*, 100, 8677-8693.

38. Weisberg, R.H. and S.P. Hayes (1995). Upper ocean variability on the equator in the west central Pacific at 170 W, *Jour. Geophys. Res.*, 100, 20485-20498.
39. Squires, A.P., G.A. Vargo, R.H. Weisberg, K.A. Fanning, B. Galperin (1995). Review and synthesis of historical Tampa Bay water quality data, *Florida Scientist*, 58, 228-233.
40. Weisberg, R.H., B. Black and H. Yang (1996). Seasonal modulation of the west Florida shelf circulation, *Geophys. Res. Lett.* 23, 2247-2250.
41. Wang, C. and R.H. Weisberg (1996). Stability of equatorial modes in a simplified Coupled ocean-atmosphere model, *J. Climate*, 9, 3132-3148.
42. Yang, J.Y., T.Y. Tang and R.H. Weisberg (1997). Basinwide zonal wind stress and ocean thermal variations in Equatorial Pacific Ocean, *J. Geophys. Res.*, 102, 911-927.
43. Qiao, L. and R.H. Weisberg (1997). The zonal momentum balance of the equatorial undercurrent in the central Pacific, *J. Phys. Oceanogr.*, 27, 1094-1119.
44. Weisberg, R.H. and C. Wang (1997). Slow variability in the equatorial west-central Pacific in relation to ENSO, *J. Climate*, 10, 1998-2017.
45. Weisberg, R.H. and C. Wang (1997). A Western Pacific oscillator paradigm for ENSO, *Geophys. Res. Lett.*, 24, 779-782.
46. Qiao, L. and R.H. Weisberg (1998). Tropical instability wave energetics: The Tropical Instability Wave Experiment, *J. Phys. Oceanogr.*, 28, 345-360.
47. Wang, C., and R.H. Weisberg (1998). Observations of meridional scale frequency dependence in the coupled ocean-atmosphere system, *J. Geophys. Res.*, 103, 2811-2816.
48. Morris, M., Roemmich, G. Meyers and R.H. Weisberg (1998): Upper ocean heat and fresh water advection in the western Pacific, *J. Geophys. Res.*, 103, 13023-13039.
49. Mayer, D.A. and R.H. Weisberg (1998). ENSO-related ocean-atmosphere coupling in the western equatorial Pacific, *J. Geophys. Res.*, 103, 18635-18648.
50. Wang C., R.H. Weisberg (1998). Climate variability in the coupled tropical-extratropical ocean-atmosphere system. *Geophys. Res. Lett.*, 25, 3979-3982.
51. Mayer, D.A. and R.H. Weisberg (1999). Correction to: "ENSO-related ocean-atmosphere coupling in the western equatorial Pacific," *J. Geophys. Res.*, 104,

1579.

52. Wang, C., R.H. Weisberg and J. Virmani (1999). Western Pacific interannual variability associated with ENSO, *J. Geophys. Res.*, 104, 5131-5149.
53. Yang, H and R.H. Weisberg (1999). Response of the West Florida continental shelf circulation to climatological wind forcing, *J. Geophys. Res.*, 104, 5301-5320.
54. Wang, C., R.H. Weisberg, and H. Yang (1999). Effects of the wind speed-evaporation SST feedback on the El Nino-Southern Oscillation, *J. Atmos. Sci.*, 56, 1391-1403.
55. Li, Z. and R.H. Weisberg (1999). West Florida Shelf response to upwelling favorable wind forcing: Kinematics, *J. Geophys. Res.*, 104, 13507-13527.
56. Yang, H., R.H. Weisberg, P.P. Niiler, W. Sturges, and W. Johnson (1999). Lagrangian circulation and forbidden zone on the West Florida Shelf, *Cont. Shelf. Res.*, 19, 1221-1245.
57. Li, Z. and R.H. Weisberg (1999). West Florida continental shelf response to upwelling favorable wind forcing, 2: Dynamics, *J. Geophys. Res.*, 104, 23427-23442.
58. Wang, C. and R.H. Weisberg (2000). The 1997-98 El-Nino Evolution relative to previous El Nino events, *J. Climate*, 13, 488-501.
59. Weisberg, R.H., and L. Qiao (2000). Equatorial upwelling in the central Pacific estimated from moored velocity profilers, *J. Phys. Oceanogr.*, 30, 105-124.
60. Weisberg, R.H., B. Black, Z. Li (2000). An upwelling case study on Florida's west coast, *J. Geophys. Res.*, 105, 11459-11469
61. Cronin, M.F., M.J. McPhaden and R.H. Weisberg (2000). Wind forced reversing jets in the western equatorial Pacific., *J. Phys. Oceanogr.*, 30, 657-676.
62. Shay, L.K, T.M. Cook, B.K. Haus, J. Martinez, H. Peters, A.J. Mariano, J. Van Leer, P.E. An, S. Smith, A. Soloviev, R. Weisberg, and M. Luther (2000). VHF radar detects oceanic submesoscale vortex along Florida coast. *EOS, Trans. Am. Geophys. Un.* 81, pp209&213.
63. Harrison D.E., G.A. Vecchi, and R.H. Weisberg (2000). Eastward surface jets in the central equatorial Pacific. *Jour. Mar. Res.*, 58, 735-754.
64. Helber, R.W. and R.H. Weisberg (2001). Equatorial upwelling in the western Pacific warm pool., *J. Geophys. Res.*, 106, 8989-9004.

65. Meyers, S.D., E.M. Siegel, and R.H. Weisberg (2001). Observations of currents on the west Florida shelf break. *Geophys. Res. Lett.*, 28, 2037-2040.
66. Weisberg, R.H. (2001). An observers view of the equatorial ocean currents. *Oceanography*, 14, 27-33.
67. Wang, C. and R.H. Weisberg (2001). Ocean circulation influences on sea surface temperature in the equatorial central Pacific. *J. Geophys. Res.*, 106, 19515-19526.
68. Weisberg, R.H., Z. Li, and F.E. Muller-Karger (2001). West Florida shelf response to local wind forcing: April 1998. *J. Geophys. Res.*, 106, 31239-31262.
69. Walsh, J.J. K.D. Haddad, D.A. Dieterle, R.H. Weisberg, Z. Li, H. Yang, F.E. Muller-Karger, C.A. Heil, and W.P. Bissett (2002). A numerical analysis of the landfall of 1979 red tide of *Karenia brevis* along the west coast of Florida. *Cont. Shelf Res.*, 22, 15-38.
70. Vargo, G.A., C.A. Heil, D. Spence, M.B. Neely, R. Merkt, K. Lester, R.H. Weisberg, J.J. Walsh and K. Fanning (2001). The Hydrographic regime, nutrient requirements, and transport of a *Gymnodinium breve* Davis red tide on the West Florida shelf. Proceeding of the IXth International Conference on Harmful Algal Blooms, Feb 7-11, 2000. Hobart, Australia. G.M. Hallegraeff, S. I. Blackburn, C.J. Bolch, and R.J. Lewis (eds.), 157-160.
71. Shay, L.K, T.M. Cook, H. Peters, A.J. Mariano, R. Weisberg, P.E. An, A. Soloviev, and M. Luther (2002). Very high frequency radar mapping of surface currents. *IEEE Jour. Oceanic Engr.*, 27, 155-169.
72. He, R and R.H. Weisberg (2002). West Florida shelf circulation and temperature budget for the 1999 spring transition. *Cont. Shelf Res.*, 22, 719-748.
73. Hu, C, et al. (2002). Satellite images track “black water” event off Florida coast. *EOS, Trans. Am. Geophys. Un.*, 83, pp281,285.
74. He, R and R.H. Weisberg (2002). Tides on the West Florida Shelf. *J. Phys. Oceanogr.*, 32, 3455-3473
75. Virmani, J.I. and R.H. Weisberg (2003). Features of the Observed Annual Ocean-Atmosphere Flux Variability on the West Florida Shelf. *J. Climate*, 16, 734-745.
76. He, R and R.H. Weisberg (2003). A Loop Current intrusion case study on the West Florida Shelf. *J. Phys. Oceanogr.*, 33, 465-477.

77. He, R and R.H. Weisberg (2003). West Florida shelf circulation and temperature budget for the 1998 fall transition. *Cont. Shelf Res.* 23, 777-800.
78. Weisberg, R.H. and R. He (2003). Local and deep-ocean forcing contributions to anomalous water properties on the West Florida Shelf. *J. Geophys. Res.*, 108, C6, 15, doi:10.1029/2002JC001407.
79. Walsh, J.J., R.H. Weisberg, D.A. Dieterle, R. He, B.P. Darrow, J.K. Jolliff, K.M. Lester, G.A. Vargo, G.J. Kirkpatrick, K.A. Fanning, T.T. Sutton, A.E. Jochens, D.C. Briggs, B. Nababan, C. Hu, and F. Muller-Karger (2003). The phytoplankton response to intrusions of slope water on the West Florida Shelf: models and observations. *J. Geophys. Res.*, 108, C6, 15, doi:10.1029/2002JC001406.
80. He, R., R.H. Weisberg, H. Zhang, F. Muller-Karger, and R.W. Helber (2003). A cloud-free, satellite-derived, sea surface temperature analysis for the West Florida Shelf, *Geophys. Res. Letts.*, 30, doi:10.1029/2003GL017673.
81. Halliwell, G.R., R.H. Weisberg, and D. Mayer (2003). A synthetic float analysis of upper-limb meridional overturning circulation interior ocean pathways in the tropical/subtropical Atlantic, in Interhemisphere water exchange in the Atlantic Ocean, G. Goni and P. Malanotte-Rizzoli, eds., Elsevier, pp93-136.
82. Soloviev, A.V., R.H. Weisberg and M.E. Luther (2003). Energetic Baroclinic Super-Tidal Oscillations on the Shelf off Southeast Florida. *Geophys. Res. Letts.*, 30, 9, 10.1029/2002GL016603.
83. Soloviev, A.V., R.J. Walker, R.H. Weisberg, and M.E. Luther (2003). Coastal observatory investigates energetic current oscillations on the southeast Florida shelf. *EOS, Trans. Am. Geophys. Un.* 84, 42, 441.
84. Jolliff, J.K., J.J. Walsh, R. He, R.H. Weisberg, A. Stovall-Leonard, P.G. Coble, R. Comny, C. Heil, B. Nababan, H. Zhang, C. Hu, and F. Muller-Karger (2003). Dispersal of the Suwannee River plume over the West Florida shelf: Simulation and observation of the optical and biochemical consequences of a flushing event. *Geophys. Res. Letts.*, 30, 13, 1709.
85. Weisberg, R.H. and L. Zheng (2003). How estuaries work: a Charlotte Harbor example, *J. Mar. Res.*, 61, 635-657.
86. Venezia, W., et al. (2003). SFOMC: A successful Navy and academic partnership providing sustained ocean observation capabilities in the Florida Straits. *MTS Jour.*, 37, 81-91.

87. Seim, H., B. Bacon, C. Barans, M. Fletcher, K. Gates, R. Jahnke, E. Kearns, R. Lea, M. Luther, C. Mooers, J. Nelson, D. Porter, L. Shay, M. Spranger, J. Thigpen, R. Weisberg, F. Werner, (2003). SEA-COOS - A Model for a Multi-State, Multi-Institutional Regional Observation System, *MTS Journal*, 37(3), 92-101.
88. Zheng, L. and R.H. Weisberg (2004). Tide, buoyancy, and wind driven circulation of the Charlotte Harbor estuary, a model study, *J. Geophys. Res.*, 109, C06011, doi:10.1029/2003JC001996
89. He, R., Y. Liu, and R.H. Weisberg (2004). Coastal ocean wind fields gauged against the performance of a coastal ocean circulation model, *Geophys. Res. Lett.*, 31, L14303, 10.1029/2003GL019261.
90. Yang, Y.J, T.Y. Tang, and R.H. Weisberg (2004). Current and thermal variations to westerly wind bursts in the equatorial Pacific Ocean. *Terr., Atmos. and Oceanic Sci.*, 15, 151-178.
91. Weisberg, R.H., R. He, G. Kirkpatrick, F. Muller-Karger, and J.J. Walsh (2004). Coastal ocean circulation influences on remotely sensed optical properties: A west Florida shelf case study. *Oceanography*, 17, 68-75.
92. Virmani, J.I. and R.H. Weisberg (2005). Relative humidity over the west Florida continental shelf. *Mon. Weather Rev.*, 133, 1671–1686.
93. Liu, Y. and R.H. Weisberg (2005). Momentum balance diagnoses for the west Florida Shelf. *Cont. Shelf Res.*, 25, 2054-2074.
94. Katsaros, K.B., A.V. Soloviev, R.H. Weisberg, and M.E. Luther (2005). Reduced horizontal sea surface temperature gradients under conditions of clear sky and weak winds. *Boundary-Layer Meteorology*, 116, 175-185, DOI 10.1007/s10546-004-2421-4.
95. Hu, C., J.R. Nelson, E. Johns, Z. Chen, R.H. Weisberg, and F. Muller-Karger (2005). Mississippi water in the Florida Straits and in the Gulf Stream off the coast of Georgia in summer 2004. *Geophys. Res. Lett.*, 32 L14606, doi:10.1029/2005GL022942
96. Weisberg, R.H., R. He, Y. Liu, and J.I. Virmani (2005). West Florida shelf circulation on synoptic, seasonal, and inter-annual time scales, in Circulation in the Gulf of Mexico, W. Sturges and A. Lugo-Fernandez, eds., *AGU monograph series, Geophysical Monograph* 161, 325-347.
97. Liu, Y. and R.H. Weisberg (2005). Patterns of ocean current variability on the West Florida Shelf using the self-organizing map . *J. Geophys. Res.*, 110, C6, C06003

98. Weisberg, R.H. and L. Zheng (2006). Circulation of Tampa Bay driven by buoyancy, tides, and winds, as simulated using a finite volume coastal ocean model. *J. Geophys. Res.*, 111, C01005, doi:10.1029/2005JC003067.
99. Liu, Y., R.H. Weisberg, and R. He (2006). Sea surface temperature patterns on the West Florida Shelf using growing hierarchical self-organizing maps. *J. Atm. Ocean. Tech.*, 23, 2, 325–338.
100. Virmani, J. I., and R. H. Weisberg (2006), The 2005 hurricane season: An echo of the past or a harbinger of the future?, *Geophys. Res. Lett.*, 33, L05707, doi:10.1029/2005GL025517.
101. Liu, Y, R.H. Weisberg, and C.N.K. Mooers (2006). Performance evaluation of the self organizing map for feature extraction. *J. Geophys. Res.*, 111, C05018, doi:10.1029/2005jc003117.
102. Aretxabaleta, A., J.R. Nelson, J.O. Blanton, H.E. Seim, F.E. Werner, J.M. Bane, and R.H. Weisberg (2006). Cold event in the South Atlantic Bight during summer of 2003: anomalous hydrographic and atmospheric conditions, *J. Geophys. Res.*, 111, C06007, doi:10.1029/2005JC003105.
103. Walsh, J.J., J.K. Jolliff, B.P. Darrow, J.M. Lenes, S.P. Milroy, A. Remsen, D.A. Dieterle, K.L. Carder, F.R. Chen, G.A. Vargo, R.H. Weisberg, K.A. Fanning, F. Muller-Karger, K.A. Steidinger, C.A. Heil, C.R. Tomas, J.S. Prospero, T.N. Lee, G.J. Kirkpatrick, T.E. Witledge, D.A. Stockwell, T.A. Villareal, A.E. Jochens, and P.S. Bontempi (2006). Red tides in the Gulf of Mexico: Where, when, and why? *J. Geophys. Res.*, 111, C11003, doi:10.1029/2004JC002813.
104. Weisberg, R.H. and L. Zheng (2006). A simulation of the hurricane Charley storm surge and its breach of North Captiva Island, *Florida Scientist*, 69, 152-165.
105. Weisberg, R.H. and L. Zheng (2006). Hurricane storm surge simulations for Tampa Bay. *Estuaries and Coasts*, 29, 899-913.
106. Shay, L.K., J. Martinez-Pedraza, T.M. Cook, B.K. Haus, and R.H. Weisberg (2007). High-frequency radar mapping of surface currents using WERA. *J. Atmos. and Oceanic Technol.*, 24, 484-503.
107. Helber, R.W., R.H. Weisberg, F. Bonjean, and G.S.E. Lagerloef (2007). Satellite derived surface current divergence in relation to tropical Atlantic SST and wind. *J. Phys. Oceanogr.*, 37, 1357–1375.
108. Liu, Y., and R.H. Weisberg (2007). Ocean currents and sea surface heights estimated across the West Florida Shelf, *J. Phys. Oceanogr.*, 37, 1697-1713.

109. Liu, Y., R.H. Weisberg, and L.K. Shay (2007). Current patterns on the West Florida Shelf from joint Self-Organizing Map analyses of HF radar and ADCP Data, *J. Atmos. Oceanic Technol.*, 24, 702-712.
110. Mayer, D.A., J.I. Virmani, and R.H. Weisberg (2007), Velocity comparisons from upward and downward acoustic Doppler current profilers on the West Florida Shelf, *J. Atm. Ocean Tech.*, 24, 1950-1960.
111. Barth, A., J.-M. Beckers, A. Alvera-Azcárate, and R. H. Weisberg (2007), Filtering inertia-gravity waves from the initial conditions of the linear shallow water equations, *Ocean Modelling*, 19, 204–218.
112. Liu, Y., X.S. Liang, and R.H. Weisberg (2007). A note on the wavelet power spectrum. *J. Atmos. Oceanic Technol.* 24, 2093-2102.
113. Alvera-Azcárate, A., A. Barth, J.M. Beckers, and R.H. Weisberg. (2007). Multivariate reconstruction of missing data in sea surface temperature, chlorophyll and wind satellite fields. *J. Geophys. Res.*, 112, C03008, doi:10.1029/2006JC003660.
114. Liu, Y., R.H. Weisberg, and Y. Yuan, (2008). Patterns of upper layer circulation variability in the South China Sea from satellite altimetry using the Self-Organizing Map, *Acta Oceanologica Sinica.*, 27(Supp.), 129-144.
115. Milroy, S.P., D.A. Dieterle, R. He, G.J. Kirkpatrick, K.M. Lester, K.A. Steidinger, G.A. Vargo, J.J. Walsh, and R.H. Weisberg (2008). A three-dimensional biophysical model of *Karenia brevis* dynamics on the west Florida shelf: A look at physical transport and zooplankton grazing controls. *Cont. Shelf Res.*, 28, 112-136.
116. Barth, A., A. Alvera-Azcárate, and R. H. Weisberg (2008), Benefit of nesting a regional model into a large-scale ocean model instead of climatology. Application to the West Florida Shelf, *Cont. Shelf Res.*, 28, 561–573.
117. Barth, A., A. Alvera-Azcárate, and R. H. Weisberg (2008). A Nested Model Study of the Loop Current Generated Variability and its Impact on the West Florida Shelf, *Jour. Geophys. Res.*, 113, C05009, doi:10.1029/2007JC004492.
118. Lenes, J.M., B.A Darrow, J.J. Walsh, J.M. Prospero, R. He, R.H. Weisberg, G.A. Vargo, and C.A Heil (2008). Saharan dust and phosphatic fidelity: A three-dimensional biogeochemical model of *Trichodesmium* as a nutrient source for red tides on the West Florida Shelf, *Cont. Shelf Res.*, 28, 1091-1115.
119. Barth, A., A. Alvera-Azcárate, and R.H. Weisberg (2008). Assimilation of High-

- Frequency Radar Currents in a Nested Model of the West Florida Shelf,
Jour. Geophys. Res., 113, C08033, doi:10.1029/2007JC004585.
120. Seim, H.E., J. Nelson, M. Fletcher, C.N.K Mooers, L. Spence, R.H. Weisberg, C. Werner, S. Smith, and R. Lea (2008), SEACOOS Program Management, *MTS Journal*, 42(3), 17-27.
 121. Nelson, J. and R.H. Weisberg (2008), In situ observations and satellite remote sensing in SEACOOS: Program development and lessons learned, *MTS Journal*, 42(3), 41-54.
 122. Shay, L.K., H.E. Seim, D. Savidge, R. Styles, and R.H. Weisberg (2008), High frequency radar observing systems in SEACOOS, *MTS Journal*, 42(3), 55-67.
 123. Voulgaris, G., B.K. Haus, P. Work, L.K. Shay, H.E. Seim, J.R. Nelson, and R.H. Weisberg (2008), Waves initiative within SEACOOS, *MTS Journal*, 42(3), 58-80.
 124. Weisberg, R.H. (2008). Epilogue to SEACOOS, *MTS Journal*, 42(3), 21-23.
 125. Weisberg, R. H., and L. Zheng (2008), Hurricane storm surge simulations comparing three-dimensional with two-dimensional formulations based on an Ivan-like storm over the Tampa Bay, Florida region, *J. Geophys. Res.*, 113, C12001, doi:10.1029/2008JC005115.
 126. Alvera-Azcárate, A., A. Barth, and R.H. Weisberg (2009). A nested model of the Cariaco Basin (Venezuela): description of the basin's interior hydrography and interactions with the open ocean. *Ocean Dynamics* (special issue GODAE Coastal and Shelf Seas Working Group), doi10.1007/s10236-008-0169-y, 59, 97-120.
 127. Kourafalou, V.H., G. Peng, H. Kang, P.J. Hogan, O.M Smedstad, and R.H Weisberg (2009). Evaluation of global ocean data assimilation experiment products on South Florida nested simulations with the Hybrid Coordinate Ocean Model. *Ocean Dynamics* (special issue GODAE Coastal and Shelf Seas Working Group), doi:10.1007/s10236-008-0160-7, 59(1), 47-66.
 128. Weisberg, R.H., A. Barth, A. Alvera-Azcárate, and L. Zheng (2009). A coordinated coastal ocean observing and modeling system for the West Florida Shelf, *Harmful Algae.*, 8, 585-598.
 129. Walsh, J.J, R.H. Weisberg, J.M. Lenes F.R. Chen D.A. Dieterle, L. Zheng, K.L. Carder, G.A. Vargo, J.A. Havens, E. Peebles, D.J. Hollander, R. He, C.A. Heil, B. Mahmoudi, and J.H. Landsberg, (2009). Isotopic evidence for dead fish maintenance of Florida red tides, with implications for coastal fisheries over both source regions of the West Florida Shelf and within downstream waters of the South Atlantic Bight., *Progr. in Oceanogr.*, 80, 51-73.

130. Halliwell, G.R., A. Barth, R.H. Weisberg, P. Hogan, O.M. Smedstad, J. Cummings (2009). Impact of GODAE Products on Nested HYCOM Simulations of the West Florida Shelf, *Ocean Dynamics* (special issue GODAE Coastal and Shelf Seas Working Group doi:10.1007/s10236-008-0173-2, 59(1).
131. Virmani, J.I., and R.H. Weisberg (2009), Fish effects on ocean current observations in the Cariaco basin, *Jour. Geophys. Res.*, 114, C03028, doi:10.1029/2008JC004889.
132. Seim, H.E., M. Fletcher, C.N.K Mooers, J. Nelson, R.H. Weisberg (2009), Towards a Regional Coastal Ocean Observing System: an initial design for the Southeast Coastal Ocean Observing *J. Mar. Syst.*, 77, 261-277, doi:10.1016/j.jmarsys.2007.12.016
133. Alvera-Azcárate, A., A. Barth, and R.H. Weisberg. (2009). The surface circulation of the Caribbean Sea and the Gulf of Mexico as inferred from satellite altimetry. *Jour. Phys. Oceanogr.*, 39, 640-657.
134. Chassignet, E.P, H.E. Hurlburt, E.J. Metzger, O.M. Smedstad, J.Cummings, G.R. Halliwell, R. Bleck, R. Baraille, A.J. Wallcraft, C. Lozano, H. Tolman, A. Srinivasan, S. Hankin, P. Cornillon, R. Weisberg, A. Barth, R. He, C. Werner, and J. Wilkin (2009), U.S. GODAE: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (HYCOM), *Oceanography*, 22, 48-59.
135. Barth, A., A. Alvera-Azcárate, J.M. Beckers, R.H. Weisberg, L. Vandenbulcke, F. Lenartz, and M. Rixen (2009). Dynamically constrained ensemble perturbations – applications to tides on the West Florida Shelf, *Ocean Science*, 5, 259-270.
136. Zheng, L. and R.H. Weisberg (2009). Rookery Bay and Naples Bay circulation simulations: applications to tides and fresh water inflow regulation, *Ecological Modelling*, 221, 986-996, doi:10.1016/j.ecolmodel.2009.01.024.
137. Weisberg, R.H., Y. Liu and D. Mayer (2009): West Florida Shelf mean circulation observed with long-term moorings. *Geophys. Res. Lett.*, 36, L19610, doi:10.1029/2009GL040028.
138. Liu, Y., R.H. Weisberg, C.R. Merz, S. Lichtenwalner, and G.J. Kirkpatrick, (2010). HF radar performance in a low energy environment: CODAR SeaSonde experience on the West Florida Shelf. *Jour of Atmos and Oceanic Tech*, 27(10), 1689-1710.
139. Huang, Y., R. H. Weisberg, and L. Zheng (2010). The coupling of surge and waves for an Ivan-like hurricane impacting the Tampa Bay, Florida region, *J. Geophys. Res.*, 115, C12009, doi:10.1029/2009JC006090.

140. Liu, Y., and R.H. Weisberg (2011) A review of Self-Organizing Map applications in meteorology and oceanography. In *Self-Organizing Maps - Applications and Novel Algorithm Design*, Edited by J. I. Mwasiagi, InTech, Rijeka, Croatia, ISBN 978-953-307-546-4, pp.253-272.
141. Alvera-Azcárate, A. A. Barth, R.H. Weisberg, A. J.J. Casteneda, L. Vandenbulcke, and J.M. Beckers (2011), Thermocline characterization in the Cariaco basin: a modelling study of the thermocline annual variation and its relation with winds and chlorophyll-a concentration, *Cont. Shelf Res.*, 31, 73-84.
142. Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng (2011), Tracking the Deepwater Horizon oil spill: A modeling perspective, *EOS Transactions, American Geophysical Union*, 92(6), 45-46, doi: 10.1029/2010ES003187.
143. Weisberg, R.H. (2011) Coastal Ocean Pollution, Water Quality and Ecology: A Commentary, *MTS Journal*, Vol. 45, No. 2, 35-42.
144. Hu, C., R.H. Weisberg, Y. Liu, L. Zheng, K.L. Daly, D.C. English, J. Zhao, and G.A. Vargo (2011), Did the northeastern Gulf of Mexico become greener after the Deepwater Horizon oil spill?, *Geophys. Res. Lett.*, 38, L09601, doi:10.1029/2011GL047184.
145. Walsh, J.J., C.R. Tomas, K.A. Steidinger, J.M. Lenes, F.R. Chen, R.H. Weisberg, L. Zheng, J.H. Landsberg, G.A. Vargo, and C. A. Heil (2011), Imprudent fishing harvests and consequent trophic cascades on the West Florida Shelf over the last half century: A harbinger of increased human deaths from paralytic shellfish poisoning along the southeastern United States in response to oligotrophication. *Cont. Shelf Res.*, 31, 891-911, doi:10.1016/j.csr.2011.02.007.
146. Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng (2011), Satellites, models combine to track Deepwater Horizon oil spill. *SPIE Newsroom*, doi:10.1117/2.1201104.003575.
147. Liu, Y., and R. H. Weisberg (2011), Evaluation of trajectory modeling in different dynamic regions using normalized cumulative Lagrangian separation, *J. Geophys. Res.*, 116, C09013, doi:10.1029/2010JC006837.
148. Liu, Y., A. MacFadyen, Z.-G. Ji, and R.H. Weisberg (Editors), (2011), *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise*, *Geophysical Monograph Series*, Vol. 195, 271 PP., ISSN: 0065-8448, ISBN 978-0-87590-485-6. AGU/geopress, Washington D.C.

149. Liu, Y., A. MacFadyen, Z.-G. Ji, and R.H. Weisberg, (2011), Preface, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series*, 195, doi:10.1029/2011GM001146.
150. Weisberg, R.H., L. Zheng, and Y. Liu, (2011), Tracking subsurface oil in the aftermath of the Deepwater Horizon well blowout, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series*, 195, 205-215, doi:10.1029/2011GM001131.
151. Liu, Y., A. MacFadyen, Z.-G. Ji, and R.H. Weisberg (2011), Introduction to Monitoring and Modeling the Deepwater Horizon Oil Spill, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series*, 195, 1-7, doi:10.1029/2011GM001147.
152. Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng (2011), Trajectory forecast as a rapid response to the Deepwater Horizon oil spill, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series*, 195, 153-165, doi:10.1029/2011GM001121.
153. Liu, Y., R.H. Weisberg, C. Hu, C. Kovach, and R. Riethmüller (2011), Evolution of the Loop Current system during the Deepwater Horizon oil spill event as observed with drifters and satellites, in *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise, Geophysical Monograph Series*, 195, 91-101, doi:10.1029/2011GM001127.
154. Zheng, L. and R.H. Weisberg (2012), Modeling the West Florida Coastal Ocean by Downscaling from the Deep Ocean, Across the Continental Shelf and into the Estuaries, *Ocean Modeling*, 48 (2012), 10-29, doi:10.1016/j.ocemod.2012.02.002.
155. Lenes, J.M., B.P. Darrow, J.J. Walsh, J.K. Jolliff, F.R. Chen, R.H. Weisberg, and L. Zheng (2012), A 1-D simulation analysis of the development and maintenance of the 2001 red tide of the ichthyotoxic dinoflagellate *Karenia brevis* on the West Florida shelf. *Cont. Shelf Res.*, 41, 92-100, doi:10.1016/j.csr.2012.04.007.
156. Liu, Y. and R.H. Weisberg, S. Vignudelli, L. Roblou and C.R. Merz (2012), Comparison of the X-TRACK Altimetry Estimated Currents with Moored ADCP and HF radar Observations on the West Florida Shelf, *Advances in Space Research*, 50, 1085-1098, doi:10.1016/j.asr.2011.09.012.
157. Liu, Y. and R.H. Weisberg (2012), Seasonal Variability on the West Florida Shelf. *Prog. Oceanogr.*, 104, 80-98, doi:10.1016/j.pocean.2012.06.001.
158. Weisberg, R.H., Y. Liu, C.R. Merz, J.I. Virmani, and L. Zheng (2012). A critique of alternative power generation for Florida by mechanical and solar means. *Mar. Tech. Soc. J.*, 46, 5, 12-23, doi:10.4031/MTSJ.46.5.1.

159. Merz, C.R., R.H. Weisberg, Y. Liu (2012), Evolution of the USF/CMS CODAR and WERA HF Radar Network, *IEEE Oceans* 2012, doi:10.1109/OCEANS.2012.6404947.
160. Huang, Y., R. H. Weisberg, and L. Zheng (2013), Gulf of Mexico hurricane wave simulations using SWAN: Bulk formula based drag coefficient sensitivity for Hurricane Ike. *J. Geophys. Res.-Oceans*, 118, 1–23, doi:10.1002/jgrc.20283.
161. Zheng, L., R.H. Weisberg, Y. Huang, et al., (2013), Implication from the comparisons between two- and three-dimensional model simulations of the Hurricane Ike storm surge. *J. Geophys. Res.-Oceans*, 118, 3350–3369, doi:10.1002/jgrc.20248.
162. Kerr, P.C., A.S. Donahue, J.J. Westerink, R.A. Luetich Jr., L.Y. Zheng, R.H. Weisberg, Y. Huang, H.V. Wang, Y. Teng, D.R. Forrest, A. Roland, A.T. Haase, A.W. Kramer, A.A. Taylor, J.R. Rhome, J.C. Feyen, R.P. Signell, J.L. Hanson, M.E. Hope, R.M. Estes, R.A. Dominguez, R.P. Dunbar, L. N. Semeraro, H.J. Westerink, A.B. Kennedy, J.M. Smith, M.D. Powell, V.J. Cardone, and A.T. Cox. (2013) U.S. IOOS coastal and ocean modeling testbed: Inter-model evaluation of tides, waves, and hurricane surge in the Gulf of Mexico. *J. Geophys. Res.-Oceans*, 118, 5129–5172, doi:10.1002/jgrc.20376.
163. Zhao, J., C. Hu, J. M. Lenes, R.H. Weisberg, C. Lembke, et al. (2013). Three-dimensional structure of a *Karenia brevis* bloom: observations from gliders, satellites, field measurements, and numerical models. *Harmful Algae*, 29, 22–30.
164. Weisberg, R.H., L. Zheng, Y. Liu, C. Lembke, J.M. Lenes and J.J. Walsh (2014), Why a red tide was not observed on the West Florida Continental Shelf in 2010. *Harmful Algae*, 38, 119-126, doi:10.1016/j.hal.2014.04.010.
165. Heil, C.A., D.A. Bronk, L.K. Dixon, G.L. Hitchcock, G.J. Kirkpatrick, M.R. Mulholland, J.M. O’Neil, J.J. Walsh, R.H. Weisberg, and M. Garrett (2014). The Gulf of Mexico ECOHAB:Karenia Program 2006-2012. *Harmful Algae*, 38, 3-7, doi:10.1016/j.hal.2014.07.015.
166. Heil, C.A., L.K. Dixon, E. Hall, M. Garrett, J.M. Lenes, J.M. O’Neil, B.M. Walsh, D.A. Bronk, L. Killberg-Thoreson, G.L. Hichcock, K. A. Meyer, M.R. Mulholland, L. Procise, G.J. Kirkpatrick, J.J. Walsh, and R.H. Weisberg (2014). Blooms of *Karenia brevis* (Davis) G. Hansen & O. Moestrup on the West Florida Shelf: Nutrient sources and potential management strategies based on a multi-year regional study. *Harmful Algae*, 38, 127-140, doi:10.1016/j.hal.2014.07.016.

167. Liu, Y., R.H. Weisberg, and C.R. Merz (2014) Assessment of CODAR and WERA HF radars in mapping currents on the West Florida Shelf, *J. Atmos. Oceanic Technol.*, 31, 6, 1363-1382, DOI: 10.1175/JTECH-D-13-00107.1
168. Bert, T.M., W.S. Arnold, A.E. Wilbur, S. Seyoum, A.L. McMillen-Jackson, S.P. Stephenson, R.H. Weisberg and L.A. Yarbrow (2014). Florida Gulf Bay Scallop (*Argopecten Irradians Concentricus*) Population Genetic Structure: Form, Variation, and Influential Factors, *J. Shellfish Res.*, 33, 99-136, DOI: <http://dx.doi.org/10.2983/035.033.0112>.
169. Liu, Y., R.H. Weisberg, S. Vignudelli, and G.T. Mitchum (2014). Evaluation of altimetry-derived surface current products using Lagrangian drifter trajectories in the eastern Gulf of Mexico, *J. Geophys. Res.*, 119, 2827-2842, doi:10.1002/2013JC009710.
170. Weisberg, R.H., L. Zheng and E. Peebles (2014), Gag grouper larvae pathways on the West Florida Shelf, *Cont. Shelf Res.*, 88, 11-23, Doi.10.1016/j.csr.2014.06.003
171. Pan, C., Zheng, L., Weisberg, R.H., Liu, Y., and Lembke, C. (2014). Comparisons of different ensemble schemes for glider data assimilation on West Florida Shelf, *Ocean Modelling*, 81, 13–24, doi10.1016/j.ocemod.2014.06.005.
172. Zhu, J., R.H. Weisberg, L. Zheng, and S. Han (2015). On the flushing of Tampa Bay. *Estuaries and Coasts*, 38, 118-131, doi: 10.1007/s12237-014-9793-6.
173. Zhu, J., R.H. Weisberg, L. Zheng, and S. Han (2015). Influences of channel deepening and widening on the tidal and non-tidal circulation of Tampa Bay. *Estuaries and Coasts*, 38, 132-150, doi: 10.1007/s12237-014-9815-4.
174. Kourafalou, V.H., P. De Mey, J. Staneva, N. Ayoub2, A. Barth, Y. Chao, M. Cirano, J. Fiechter, M. Herzfeld, A. Kurapov, A.M. Moore, P. Oddo, J. Pullen, A. Van Der Westhuysen, R. Weisberg (2015) Coastal Ocean Forecasting: science foundation and user benefits, *Journal of Operational Oceanography*, 7, 3, 149-159, doi:10.1080/1755876X.2015.1022348.
175. Weisberg, R.H., L. Zheng and Y. Liu (2015). Basic tenets for coastal ocean ecosystems monitoring, in *Coastal Ocean Observing Systems*, Y. Liu, H. Kerkerling and R.H. Weisberg, eds., Elsevier, London, ISBN: 978-0-12-802022-7, 461pp.
176. Liu, Y., H. Kerkerling and R.H. Weisberg (2015). Introduction to Coastal Ocean Observing Systems, in *Coastal Ocean Observing Systems*, Y. Liu, H. Kerkerling and R.H. Weisberg, eds., Elsevier, London, ISBN: 978-0-12-802022-7, 461pp.
177. Liu, Y., R.H. Weisberg and C. Lembke (2015). Glider salinity correction for unpumped CTD sensors across a sharp thermocline, in *Coastal Ocean Observing*

- Systems*, Y. Liu, H. Kerkerling and R.H. Weisberg, eds., Elsevier, London, ISBN: 978-0-12-802022-7, 461pp.
178. Merz, C., Y. Liu, K-W. Gurgel, L. Pedersen and R.H. Weisberg (2015). Effect of radio frequency interference (RFI) noise energy on WERA performance using “Listen Before Talk” adaptive noise procedure on the west Florida shelf, in *Coastal Ocean Observing Systems*, Y. Liu, H. Kerkerling and R.H. Weisberg, eds., Elsevier, London, ISBN: 978-0-12-802022-7, 461pp.
 179. Zhu, J., R.H. Weisberg, L. Zheng, and S. Han (2015). On the salt balance of Tampa Bay. *Cont. Shelf Res*, 107, 115-131, doi:10.1016/j.csr.2015.07.001.
 180. Walsh, J.J., J.M. Lenes, B.P. Darrow, A.A. Parks, R.H. Weisberg, L. Zheng, C. Hu, B.B. Barnes, K.L. Daly, S.-I. Shin, G.R. Brooks, W.H. Jeffrey, R.A. Snyder, and D. Hollander (2015). A simulation analysis of the plankton fate of the *Deepwater Horizon* oil spills, *Cont. Shelf Res.*, 107, 50-68, doi.org/10.1016/j.csr.2015.07.002.
 181. Abascal, A.J., S. Castanedo, R. Mínguez, R. Medina, Y. Liu, and R.H. Weisberg (2015), Stochastic Lagrangian trajectory modeling of surface drifters deployed during the Deepwater Horizon oil spill, In *Proceedings of the 38th AMOP Technical Seminar on Environmental Contamination and Response*, Environment and Climate Change Canada, Ottawa, ON, PP. 71-99.
 182. Hu, C., B. Murch, A.A. Corcoran, L. Zheng, B.B. Barnes, R.H. Weisberg, K. Atwood, and J. M. Lenes (2016). Developing a smart semantic Web with linked data and models for near-real-time monitoring of red tides in the eastern Gulf of Mexico. *IEEE Systems Journal*, Doi:10.1109/JSYST.2015.2440782.
 183. Walsh, J.J., J.M. Lenes, B.P. Darrow, A.A. Parks, R.H. Weisberg (2016). Impacts of combined overfishing and oil spills on the plankton trophodynamics of the West Florida shelf over the last half century of 1957-2011: A two-dimensional simulation analysis, *Cont. Shelf Res.*, 116, 54-73.
 184. Weisberg, R.H., L.Y. Zheng, Y. Liu, A. Corcoran, C. Lembke, C. Hu, J. Lenes, and J. Walsh (2016). *Kerenia brevis* blooms on the west Florida shelf: A comparative study of the robust 2012 bloom and the nearly null 2013 event. *Continental Shelf Research*, 120, 106-121, http://dx.doi.org/10.1016/j.csr.2016.03.011
 185. Weisberg, R.H, L. Zheng, Y. Liu, S. Murawski, C. Hu, and J. Paul (2016), Did Deepwater Horizon Hydrocarbons Transit to the West Florida Continental Shelf? *Deep-Sea Res.*, Part II, 129, 259-272, doi:10.1016/j.dsr2.2014.02.002.
 186. Liu, Y., R.H. Weisberg, S. Vignudelli, G.T. Mitchum (2016). Patterns of the Loop Current System and Regions of Sea Surface Height Variability in the Eastern Gulf

- of Mexico Revealed by the Self-Organizing Maps, *J. Geophys. Res.*, 121, 2347-2366, doi:10.1002/2015JC011493.
187. Rubec, P.J., J. Lewis, D. Reed, C. Santi, R.H. Weisberg, L. Zheng, C. Jenkins, C.F. Ashbaugh, C. Lashley, S. Versaggi (2016). Linking Oceanographic Modeling and Benthic Mapping with Habitat Suitability Models for Pink Shrimp on the West Florida Shelf, *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*, 8, 160-176, doi: 10.1080/19425120.2015.1082519
 188. Liu, Y., R.H. Weisberg, J.M. Lenes, L. Zheng, K. Hubbard, and J.J. Walsh (2016), Offshore forcing on the "pressure point" of the West Florida Shelf: Anomalous upwelling and its influence on harmful algal blooms, *J. Geophys. Res.: Oceans*, 121, 5501-5515, <http://dx.doi.org/10.1002/2016JC011938>.
 189. Weisberg, R.H., L. Zheng, and Y. Liu (2016), West Florida Shelf upwelling: Origins and pathways, *J. Geophys. Res.: Oceans*, 121, 5672-5681, doi:10.1002/2015JC011384.
 190. Walsh, J.J., J.M. Lenes, R.H. Weisberg, L. Zheng, C. Hu, K.A. Fanning, R. Snyder, J. Smith (2017), More surprises in the global greenhouse: Human health impacts from recent toxic marine aerosol formations, due to centennial alterations of world-wide coastal food webs, *Mar. Poll. Bull.*, doi:10.1016/j.marpolbul.2016.12.053.
 191. Mayer, D.A., R.H. Weisberg, L. Zheng, and Y. Liu (2017), Winds on the West Florida Shelf: Regional Comparisons between Observations and Model Estimates, *J. Geophys. Res.: Oceans*, 122, 834-846, doi: 10.1002/2016JC012112.
 192. Weisberg, R.H., L. Zheng, and Y. Liu (2017), On the Movement of Deepwater Horizon Oil to Northern Gulf Beaches, *Ocean Modelling*, 111, 81-97, doi:10.1016/j.ocemod.2017.02.002.
 193. Wang, C, X. Wang, R.H. Weisberg, M.L. Black (2017, Variability of tropical cyclone rapid intensification in the North Atlantic and its relationship with climate variations, *Clim. Dyn.*, DOI 10.1007/s00382-017-3537-9.
 194. Weisberg, R.H. and Y. Liu (2017), On the Loop current penetration into the Gulf of Mexico, *J. Geophys. Res.: Oceans*, 122, 9679-9694, doi: 10.1002/2017JC013330, <https://doi.org/10.1002/2017JC013330>.
 195. Soloviev, A. V., A. Hirons, C. Maingot, R. E. Dodge, A. E. Yankovsky, J. Wood, R. H. Weisberg, M. E. Luther, and J. P. McCreary, 2017. Southward flow on the coastal flank of the Florida Current. *Deep Sea Res.*, Vol. 125, 94–105, doi: 10.1016/j.dsr.2017.05.002.

196. Liu, Y., Weisberg, R.H., Law, J., & Huang, B. (2018), Evaluation of satellite-derived SST products in identifying the rapid temperature drop on the West Florida Shelf associated with hurricane Irma, *MTS Journal*, 52(3), 43-50, <https://doi.org/10.4031/MTSJ.52.3.7>.
197. Chen, J., Weisberg, R.H., Liu, Y., & Zheng, L. (2018), The Tampa Bay Coastal Ocean Circulation Model performance for Hurricane Irma, *MTS Journal*, 52(3), 33-42, <https://doi.org/10.4031/MTSJ.52.3.6>.
198. Chiri, H., Y. Liu, S. Castanedo, R. Medina, R. Weisberg, A.J. Abascal Santillana, J.A. Antolínez (2019), Statistical Simulation of Ocean Current Patterns using Autoregressive Logistic Regression Models: A Case Study in the Gulf of Mexico, *Ocean Modelling*, 136, 1-12, <https://doi.org/10.1016/j.ocemod.2019.02.010>.
199. Mayer, D.A., J.A. Zhang and R.H. Weisberg (2019), Surface layer turbulence parameters derived from 1s wind observations on the West Florida Shelf, *J. Geophys. Res.: Atmos.*, 124, <https://doi.org/10.1029/2018JD029392>.
200. Weisberg, R.H. (2019), Chapter 3: Material Transports, in “*Wind-borne illness from coastal seas: Present and future consequences of toxic marine aerosols*” by J.J. Walsh, R.H. Weisberg and J.M. Lenes, Elsevier, doi:10.1016/B978-0-12-812131-3.00003-3.
201. Weisberg, R.H., Y. Liu, C. Lembke, C. Hu, K. Hubbard, M. Garrett (2019), The Coastal Ocean Circulation Influence on the 2018 West Florida Shelf *K. brevis* Red Tide Bloom, *J. Geophys. Res.: Oceans*, 124, doi:10.1029/2018JC014887.
202. Chen, J., R.H. Weisberg, Y. Liu, L. Zheng and J. Zhu (2019), On the Momentum Balance of Tampa Bay. *J. Geophys. Res. Oceans*, 124, doi:10.1029/2018JC014890.
203. Zhang, Y., C. Hu, Y. Liu, R.H. Weisberg and V.H. Kourafalou (2019). Submesoscale and mesoscale eddies in the Florida straits: observations from satellite ocean color measurements. *Geophys. Res. Lett.*, 46, doi:10.1029/2019GL083999.
204. Liu, Y., Weisberg, R.H., Zheng, L. (2020), Impacts of hurricane Irma on the circulation and transport in Florida Bay and the Charlotte Harbor estuary, *Estuaries and Coasts*, 42, doi:10.1007/s12237-019-00647-6.
205. Yang, Y., Weisberg, R.H., Liu, Y. Liang, X.S. (2020), Instabilities and multiscale interactions underlying the Loop Current eddy shedding in the Gulf of Mexico, *J. Phys. Oceanogr.*, 50(5), 1289-1317, doi:10.1175/JPO-D-19-0202.1.

206. Yang, Y., J.C. McWilliams, X.S. Liang, H. Zhang, R.H. Weisberg, Y. Liu, D. Menemenlis (2020) Spatial and Temporal Characteristics of the Submesoscale Energetics in the Gulf of Mexico., *J. Phys. Oceanogr.*, 51, 475-488, DOI: 10.1175/JPO-D-20-0247.1
207. Huang, M. X. Liang, Y. Zhu1, Y. Liu, R.H. Weisberg (2021 Eddies connect the tropical Atlantic Ocean and the Gulf of Mexico, *Geophys. Res. Lett.*, 48, <https://doi.org/10.1029/2020GL091277>.
208. Liu, Y., C.R. Merz, R.H. Weisberg, L.K. Shay, S. Glenn, M. Smith (2021), Evaluation of altimetry and model products in the Straits of Florida with high-frequency radar radial currents. Ocean Remote Sensing Technologies: HF, Marine and GNSS-Based Radar, IET, edited by Eric Gill and Weimin Huang, 29 pp., in press.
209. Justic, D., et al. (22 co-authors including R.H. Weisberg and Y. Liu) (2021), A review of transport processes in the Gulf of Mexico along the river-estuary-shelf-ocean continuum: a synthesis of research from the Gulf of Mexico Research Initiative, *Estuaries and Coasts* (submitted).
210. Solo-Gabriele, H. et al. (43 co-authors including R.H. Weisberg and Y. Liu) (2021), Towards integrated modeling of the long-term impacts of oil spills, *Marine Policy* (submitted).

DISSERTATIONS:

- Weisberg, R.H. (1975). The non-tidal flow in the providence river of Narragansett Bay: A Stochastic approach to estuarine circulation. Ph.D. Dissertation, University of Rhode Island.
- Weisberg, R.H. (1972). The net circulation in the West Passage of Narragansett Bay. M.S. Dissertation, University of Rhode Island.

OTHER REFEREED and NON-REFEREED PUBLICATIONS:

58. Weisberg, R.H. (2020), Written testimony at a public EPA public hearing regarding Kampachi Fish Farming, Sarasota, FL.
57. Weisberg, R.H., J. Chen, and Y. Liu (2020), Hillsborough Bay Inflow Modification Study, Project Report to City of Tampa as part of the Tampa Augmentation Project, 23 pp.
56. Weisberg, R.H., Red tide: What we know, Letter to the Editor, Tampa Bay Times, 8/26/18.

55. Committee on NRC-GRP Loop Current Dynamics (2018). Understanding and Predicting the Gulf of Mexico Loop Current: Critical Gaps and Recommendations." (2018) National Academies of Sciences, Engineering, and Medicine. Washington, DC: The National Academies Press, 105pp, doi: <https://doi.org/10.17226/24823>.
54. Gomez, R., T. Helzel, L. Petersen, M. Kniephoff, C.R. Merz, Y. Liu, and R.H. Weisberg, (2014). Real-time quality control of current velocity data on individual grid cells in WERA HF radar, *MTS/IEEE 2014*, Taipei.
53. Weisberg, R.H., W. Boicourt, A.E. Jochens and J.I. Virmani. (2012). A vision for coastal ocean IOOS for the next decade, IOOS Summit Report.
52. Virmani, J.I, L. Leonard, J. Dorton, R.H. Weisberg, J. Quintrell, A. Jochens, J.R. Morrison, J. O'Donnell (2012). Fixed Platforms in an Integrated and Interdisciplinary Ocean Observing System, IOOS Summit Report.
51. Weisberg, R.H.. Cuba Oil Spill: the scenarios. Invited Tampa Bay Times Op-ed piece, published 2/5/12.
50. Weisberg, R.H., Restore Act has flaws that need correcting, Letter to the Editor, Tampa Bay Times, 12/31/11.
49. Weisberg, R.H.. What a difference a year may have made. Invited St. Petersburg Times Op-ed piece on the Gulf of Mexico Loop Current, published 6/5/11.
48. Weisberg, R.H., Written testimony before the Committee on Transportation and Infrastructure, U.S. House of Representatives, 12/7/11.
47. Weisberg, R.H., Written testimony before the Subcommittee on Insular Affairs, Oceans, and Wildlife, Committee on Natural Resources, U.S. House of Representatives, 6/15/10
46. Weisberg, R.H.. Evaluations on the causes of damage to properties along the Mississippi coast, letter reports filed as expert witness, fall 2006-2011.
45. Weisberg, R.H., S.Chen, H. Diersson, S. Glenn, A. Kurapov, J. McClean, M. McNutt (2009) Letter report to Dr. John H. Montgomery, Director of Research, Code 1001, Department of the Navy, RE: site review of the NRL Battlespace Environments Program., 12/09
44. NAE/NRC, CNOHPP (2009). The New Orleans Hurricane Protection System: Assessing pre-Katrina Vulnerability and Improving Mitigation and Preparedness. The National Academies Press, ISBN-13:978-0-309-13833-8 (co-author as

- member of NAE/NRC Committee on New Orleans Regional Hurricane Protection Projects).
43. Weisberg, R.H. (2008). Coastal ocean circulation, observing and modeling systems for the West Florida Shelf, and applications to the 2005 red tide. Proceedings, Gulf of Mexico Science Forum, A Scientific Forum on the Gulf of Mexico: The Islands in the Stream Concept, Mote Marine Laboratory, Sarasota FL., 1/23/08, pp33-34.
 42. Fifth Letter report, NAS-NRC New Orleans Regional Hurricane Protection Projects
 41. Fourth Letter report, NAS-NRC New Orleans Regional Hurricane Protection Projects
 40. Weisberg, R.H. and L. Zheng (2007). Estuarine Hydrodynamic Modeling of Rookery Bay. Final report submitted to FDEP, 9/07
 39. Weisberg, R.H. and A. Barth (2007). Circulation within the Florida Big Bend Region. Final report to the FL-DOH, Sept. 2007.
 38. First Report of the NAE-NRC Committee on New Orleans Regional Hurricane Protection Projects, February 2006.
 37. Second Report of the NAE-NRC Committee on New Orleans Regional Hurricane Protection Projects, June 2006.
 36. Third Report of the NAE-NRC Committee on New Orleans Regional Hurricane Protection Projects, October 2006.
 35. Cole, R. and R.H. Weisberg (2006). Coastal Ocean Observing Systems Going Wireless. *Sea Technology*, April, 2006
 34. Rubec, P.J., J. Lewis, D. Reed, C.F. Ashbaugh, C. Lashley, S. Versaggi, R.H. Weisberg, L. Zheng, R. He, and C. Jenkins (2005). Refinement of an electronic logbook to support fishing operations by spatially predicting shrimp abundance in relation to environmental conditions off the west coast of Florida. FWC/FWRI filecode:F2412-03-05-F.
 33. Virmani, J.I. and R.H. Weisberg (2005). Humidity over the West Florida Shelf. Papers of note, Nowcast, BAMS, June 2005, 784-785.
 32. Walsh, J.J., D.A. Dieterle, B.P. Darrow, S.P. Milroy, J.K. Jolliff, J.M. Lenes, R.H. Weisberg, and R. He (2004). Coupled biophysical models of Florida red tides. In Harmful algae 2002, K.A. Steidinger, J.H. Landsberg, C.R. Tomas, and G.A. Vargo, eds., Florida Fish and Wildlife Commission, Florida Institution of Oceanography, and Intergovernmental Oceanographic Commission of UNESCO,

St. Petersburg, FL, pp381-383.

31. Vargo, G.A., C.A. Heil, D.N. Ault, N.B. Neely, S. Murasko, J. Havens, K.M. Lester, K. Dixon, R. Merkt, J.J. Walsh, R.H. Weisberg, and K.A. Steidinger (2004). Four *Karenia brevis* blooms: A comparative analysis. In Harmful algae 2002, K.A. Steidinger, J.H. Landsberg, C.R. Tomas, and G.A. Vargo, eds., Florida Fish and Wildlife Commission, Florida Institution of Oceanography, and Intergovernmental Oceanographic Commission of UNESCO, St. Petersburg, FL, pp381-383.
30. Cole, R., R.H. Weisberg, and J. Law (2004). USF Marine science divers get put on the Shelf. The Slate, AAUS news publication, 3, pp7-10.
29. Pietrafesa, L.J., D. Blaskovich, A.F. Blumberg, A.J. Busalacchi, J. McClean, C.N.K. Mooers, D.P. Rodgers, and R.H. Weisberg (2004). NOAA Science Advisory Board review of: National Center for Environmental Prediction-Ocean Modeling, 34pp.
28. Press interview for *Science*, 306, 5693, 37-39, 10/1/2004, DOI: 10.1126/science.306.5693.37.
27. Press interview for *Nature*, 9/15/2004, DOI:10.1038/news040913-18.
26. Cole, R., R.H. Weisberg, J. Donovan, C. Merz, R. Russell, V. Subramanian, and M. Luther (2003). The evolution of a coastal mooring system. *Sea Technology*, 44, 24-31.
25. Weisberg, R.H., R. He, M. Luther, J. Walsh, R. Cole, J. Donovan, C. Merz and V. Subramanian (2002). A coastal ocean observing system and modeling program for the west Florida shelf. IEEE Proceedings, Oceans2002 meeting, Oct. 2002.
24. F.J. Kelly, J.S. Bonner, J.C. Perez, J.S. Adams, D. Prouty, D. Trujillo, R.H. Weisberg, M.E. Luther, R. He, R. Cole, J. Donovan, and C.R. Merz (2002). An HF-radar test Deployment amidst an ADCP array on the west Florida shelf. IEEE Proceedings, Oceans2002 meeting, Oct. 2002.
23. H. Seim, F. Werner, M. Fletcher, J. Nelson, R. Jahnke, C. Mooers, L. Shay, R. Weisberg, M. Luther (2002). SEA-COOS: Southeast Atlantic Coastal Ocean Observing System. IEEE Proceedings, Oceans2002 meeting, Oct. 2002.
22. L.C. Langebrake, C.E. Lembke, R.H. Weisberg, R.H. Byrne, D. Randy Russell, G. Tilbury, and R. Carr (2002). Design and initial results of a bottom stationing ocean profiler. IEEE Proceedings, Oceans2002 meeting, Oct. 2002.

21. He, R and R.H. Weisberg (2002). Modeling of west Florida shelf circulation for spring 1999. Proceedings, 7th International Conference for Estuarine and Coastal Modeling.
20. Virmani, J.I., R. He, and R.H. Weisberg. Ocean-Atmosphere Flux Variability in the Gulf of Mexico, extended Abstract. Proceedings of the WCRP/SCOR Workshop on Intercomparison and Validation of Ocean-Atmosphere Flux Fields, Washington D.C., 21-24 May, 2001, WCRP-115, WMO/TD-No. 1083, August 2001.
19. Hine, A.C., Brooks, G.R., Davis, R.A., Jr., Doyle, L.J., Gelfenbaum, G., Locker, S.D., Twichell, D.C., and Weisberg, R.H., 2001, A summary of findings of the west-central Florida coastal studies project; U.S. Geological Survey Open File Report 01-303.
18. Garzoli, S.L, D. Enfield, G. Reverdin, G. Mitchum, R.H. Weisberg, P. Chang, and J. Carton (1999). COSTA, A Climate Observing System for the Atlantic. Proceedings, OCEANOBS 99, CNES, San Raphael FR., October 1999, 1, 19pp.
17. Weisberg, R.H. (1994). Transport of Mississippi River water to the west Florida shelf, in Special NOAA Report-Coastal Oceanographic Effects of Summer 1993 Mississippi River Flooding, USDOC/NOAA Coastal Ocean Office/National Weather Service, March 1994, M.J. Dowgiallo, ed.
16. Weisberg, R.H. and R.G. Williams (1991). Initial findings on the circulation of Tampa Bay. Proceeding of BASIS II.
15. Galperin B., A.F. Blumberg, and R.H. Weisberg (1991). A time-dependent, three-dimensional model of circulation in Tampa Bay. Proceeding of BASIS II.
14. Gordon, R.L., A.V. Berezutskii, A. Keneko and R.H. Weisberg (1990). A review of interesting results obtained with acoustic doppler current profilers. Proceeding IEEE 4th conference on current measurements.
13. Weisberg, R.H. (1987). Observations pertinent to instability waves in the equatorial oceans. In "Further progress on equatorial oceanography: A report of the U.S. TOGA workshop on the dynamical of the equatorial ocean", Honolulu, HI, Aug. 11-15, 1986, E.J. Katz and J.M. with eds., NOVA University Press.
12. Weisberg, R.H. (1987). Sikes Cut - A review of data and physical model studies by the COE on the salinity effects for Apalachicola Bay. Report to the Florida Department of Environmental Regulation, 8/87.
11. Weisberg, R.H. (1986). A critique and evaluation of numerical model studies on the effects of Sikes Cut on Apalachicola Bay. Report to the Florida Department

- of Environmental Regulation, 4/86.
10. Book Review - Hydrodynamics of Estuaries and Fjords, J.C.J. Nihoul ed., Bull. Amer. Met. Soc., Feb 1980, p. 9566.
 9. Atlas - Physical Oceanography of the Tropical Atlantic During GATE (1980). W. Duing, F. Ostapoff, and J. Merle eds. (Corres. member, editorial board).
 8. Weisberg, R.H. and A.M. Horigan (1981). Low frequency variability in the equatorial Atlantic, Tropical Ocean - Atmosphere Newsletter.
 7. Contributor to: SEQUAL, A seasonal Equatorial Atlantic Experiment - A statement of purpose submitted to the National Science Foundation, February 1981.
 6. Contributor to: SEQUAL Analysis Program - submitted to the National Science Foundation, May 1985.
 5. Contributor to: NOBEX, The North Brazil Experiment - A statement of purpose submitted to the National Science Foundation, June 1987.
 4. Contributor to: Proceedings, 4th session of the CCCO Tropical Atlantic Climate Studies Panel, Rio de Janeiro, Brazil, Sept. 1985.
 3. Contributor to: NOAA-ERL Equatorial Circulation Workshop, Boulder, CO., 1985.
 2. Contributor to: Proceedings, 5th session of the CCCO Tropical Atlantic Climate Studies Panel, UNESCO Paris, June 1987.
 1. Weisberg, R.H. (1981). Notes on equatorial wave dispersion, in recent progress - Equatorial Oceanography: A report on the final meeting of SCOR WG47, Venice, Italy, 4/27/-30/81; McCreary, Moore, and Witte, eds., Nova Univ. Press, 313-322.

TECHNICAL REPORTS:

1. Weisberg, R.H. and W. Sturges (1973). The Net Circulation in the West Passage of Narragansett Bay, Graduate School of Oceanography, University of Rhode Island, Technical Report re. no. 3-73.
2. Kramer, W. and R.H. Weisberg (1975). Fortran graphic programs for physical oceanographic and time series data, Graduate School of Oceanography, University of Rhode Island, NOAA Sea Grant, Marine Technical Rep. 46.
3. Weisberg, R.H., L. Miller, and J. Knauss (1975). Velocity observations during the

- GARP Atlantic Tropical Experiment (GATE): A preliminary data report, Graduate School of Oceanography, University of Rhode Island, Technical Report ref. no. 75-5.
4. Miller, L., R.H. Weisberg, and J.Knauss (1976). URI hydrographic observations during GATE: A report on the GATE equatorial and scale oceanographic workshop in Brest, France 6-10 Sept., 1976, Technical Report re. no. 76-5.
 5. D'Amato, R., R.H. Weisberg, and L.J. Pietrafesa (1980). Hydrographic observations in the Cape Fear River: Summer, 1977, Department of Marine Science and Engineering, North Carolina State University, Technical Report #80-4, Raleigh, NC 27695.
 6. Weisberg, R.H., A.M. Horigan, and J.H. Hickman (1980). Equatorial subsurface velocity measurements in the Gulf of Guinea: July 1976 - May 1978. Department of Marine Science & Engineering, North Carolina State University, Raleigh, NC 27695, Technical Report #80-2.
 7. Weisberg, R.H. and J.H. Hickman (1982). Surface moored current meter data from the equatorial Atlantic: pre-SEQUAL, January 1981 - May 1981. Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695, Technical Report #82-1.
 8. Weisberg, R.H. and L.J. Pietrafesa (1982). Surface wind field analysis in the South Atlantic Bight. Department of Marine, Earth, and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695, Technical Report #82-5.
 9. Weisberg, R.H. and J.H. Hickman (1983). Equatorial subsurface velocity and Temperature measurements during the EPOCS experiment: Feb. 1981 - Oct. 1981, Oct. 1981-Apr. 1982. Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695, May 1983.
 10. Weisberg, R.H. and J.H. Hickman (1983). Equatorial subsurface velocity and Temperature measurements during the EPOCS experiment: Mar. 1980 - Feb. 1981. Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695, March 1983.
 11. Weisberg, R.H. and J.H. Hickman (1990). Surface moored current meter measurement during the SEQUAL Experiment. Dept. of Marine Science, University of South Florida, St. Petersburg, FL 33701, Feb. 1990.
 12. Review and synthesis of historical Tampa Bay water quality data. Tampa Bay National Estuary Program, Technical Report #7-92, with K.A. Fanning, B. Galperin and G.A. Vargo in collaboration with King Engineering Assoc., November 1992.

13. Weisberg, R.H., J.C. Donovan and R.D. Cole (1994). The Tropical Instability Wave Experiment (TIWE) Equatorial Array: a report on data collected using sub-surface moored acoustic Doppler current profilers, May 1990 - June 1991. Department of Marine Science, University of South Florida, Technical Report, November 1991.
14. Weisberg, R.H., J.C. Donovan and R.D. Cole (1993). The Coupled Ocean-Atmosphere Response Experiment (COARE) equatorial array: a report on data collected using subsurface moored acoustic Doppler current profilers, February 1992 - March 1993 Department of Marine Science, University of South Florida, Technical Report, December 1993.
15. Weisberg, R.H., J.C. Donovan and R.D. Cole (1994). The Coupled Ocean-Atmosphere Response Experiment (COARE) equatorial array: A report on data collected using subsurface moored acoustic Doppler current profilers, March 1993 - April 1994. DMS-USF tech. Rep., August 1994.
16. Jones, W.K., B. Galperin, T.S. Wu and R.H. Weisberg (1994). Preliminary Circulation Simulations in Apalachicola Bay, FL., Water Resources Special Rep. 94-2, NFWFMD, Havana, FL., June 1994.
17. Weisberg, R.H., H. Yang and B. Black (1995). West-Central Florida shelf hydrography and circulation, in West-Central Florida Coastal Studies Workshop, April 24, 1995, USGS Center for Coastal Geology, St. Petersburg, FL. Open File Rep. 95-840, G. Gelfenbaum, ed.
18. Black, B., R.H. Weisberg and H. Yang (1995). Seasonal variations of the west-central Florida shelf circulation from a process prospective, in West-Central Florida Coastal Studies Workshop, April 24, 1995, USGS Center for Coastal Geology, St. Petersburg, FL. Open File Rep. 95-840, G. Gelfenbaum, ed.
19. Yang, H., R.H. Weisberg and B. Black (1995). Numerical investigations on the three dimensional west Florida shelf circulation, in West Central Florida Coastal Studies Workshop, April 24, 1995, USGS Center for Coastal Geology, St. Petersburg, FL. Open File Rep. 95-840, G. Gelfenbaum, ed.
20. Weisberg, R.H., B. Black and H. Yang (1995). West-central Florida shelf hydrography and circulation: inferences from satellite AVHRR imagery, in West-Central Florida Coastal Studies Workshop, April 24, 1995, USGS Center for Coastal Geology, St. Petersburg, FL., Open File Rep. 95-840, G. Gelfenbaum, ed.
21. Weisberg, R.H., B. Black, J. Donovan and R. Cole (1996): The West-Central Florida shelf hydrography and circulation study: A report on data collected using a surface moored acoustic doppler current profiler. Oct. 1993 - Jan. 1995. Depart-

- ment of Marine Science, University of South Florida, Technical Report, January 1996.
22. Siegel, E., R.H. Weisberg, R.D. Cole, and J.C. Donovan (1996): Physical factors affecting salinity intrusion in wetlands: the Swanee River, FL. estuary. Department of Marine Science, University of South Florida, Technical Report, October 1996.
 23. Weisberg, R.H., E.M. Siegel, B.D. Black, J.C. Donovan and R.D. Cole (1997). The West-Central Florida Shelf Circulation Project: a report on data collected using a trans-shelf array of acoustic Doppler current profilers, January 1995 - February 1996. DMS-USF Tech. Rep., April 1997.
 24. Weisberg, R.H., J. Parrish, E.M Siegel, J.C. Donovan, and R.D. (1998). Northeast Gulf of Mexico water velocity observations: a report on data collected from a surface moored acoustic Doppler current profiler, February 1996-April 1997. DMS-USF tech. rep., July 1998
 25. Weisberg, R.H., E.M. Siegel, W. Hemme, J.C. Donovan, and R.D. (1998). The west-central Florida shelf circulation project: a report on data collected using an inner-shelf array of acoustic Doppler current profilers, October 1996- May 1998. DMS-USF tech. rep., in preparation
 26. Yang, H. and R.H. Weisberg (2000). A three-dimensional numerical study of storm surges along the west Florida coast. USF COMPS Technical report December 2000.
 27. Soloviev, A.V., Thompson, T.L., Nemeth, L., Campbell, C.B. Weisberg, R.H., Luther, M.E., Cole, R., and J. Donovan (2001). SFOMC Data Report, NSU Oceanographic Center and College of Marine Science, USF, NSUOC Technical Report TR-1. Published by NOAA as a CD-ROM (data report and data base).

CONFERENCE TALKS WITH PUBLISHED ABSTRACTS:

1. Weisberg, R.H. and W. Sturges (1972). Effects of wind on net estuarine circulation EOS, Trans. Amer. Geophys. Un., 53, 395.
2. Weisberg, R.H. (1974): Wind induced velocity fluctuations in a partially mixed estuary. EOS, Trans. Amer. Geophys. Un., 55, 318.
3. Weisberg, R.H. (1974): Observations of wind induced transport in a partially mixed estuary. AGU Tropical Conference on Transport Mechanisms in the Nearshore Environment, Mystic, Conn. Sept. 9-11, 1974.
4. Weisberg, R.H., L. Miller, J. Knauss, and A. Horigan (1975): Equatorial velocity observations during GATE. EOS, Trans. Amer. Geophys. Un., 56, 378.
5. Miller, L., R.H. Weisberg, J. Knauss, and A. Horigan (1975): Equatorial hydrographic observations during GATE. EOS, Trans. Amer. Geophys. Un., 56, 378.
6. Weisberg, R.H., A. Horigan, and J.A. Knauss (1976): Velocity observations in the Atlantic equatorial thermocline. EOS, Trans. Amer. Geophys. Un., 57, 930.
7. Weisberg, R.H., A. Horigan, J.A. Knauss, and C. Colin (1977). Time dependent motions in the equatorial Atlantic. EOS, Trans. Amer. Geophys. Un., 58, 1162.
8. Weisberg, R.H., A. Horigan, and C. Colin (1978): Equatorially trapped equatorial waves. EOS, Trans. Amer. Geophys. Un., 60, 292.
9. Horigan, A.M. and R.H. Weisberg (1979): Consistency analysis for trapped equatorial waves. EOS, Trans. Amer. Geophys. Un., 60.
10. Weisberg, R.H. (1982): The Seasonal Equatorial Experiment (SEQUAL). Ocean Sciences, AGU/ASLO Joint Meeting, Feb. 16-19, 1982, San Antonio, TX (invited talk).
11. Evenson, A.J. and R.H. Weisberg (1982): Modulation of eastern Atlantic equatorial oscillations in the 3-30 day period range. EOS, Trans. Amer. Geophys. Un., 63, 973.
12. Weisberg, R.H. and T.Y. Tang (1982): Equatorial ocean response to growing and moving wind systems. EOS, Trans. Amer. Geophys. Un., 63, 973.
13. Freitag, H.P., D. Halpern, and R. H. Weisberg (1982): Tidal period oscillations near 0, 110W. EOS, Trans. Amer. Geophys. Un., 63, 973.

14. Weisberg, R. H. (1983): Upper ocean velocity and temperature measurements in the equatorial Atlantic. IUGG (IAPSO/IAMAP) Symposium 17, IUGG General Assembly, Aug. 22-24, Hamburg, FRG.
15. Tang, T. Y. and R. H. Weisberg (1983): Equatorial ocean responses to fixed, expanding, and translating zonal wind systems. EOS, Trans. Amer. Geophys. Un., 64, 719.
16. Weisberg, R.H. and T. Y. (1984): Seasonal thermocline response in the equatorial Atlantic. EOS, Trans. Amer. Geophys. Un., 65, 954.
17. Tang, T. Y. and R. H. Weisberg (1984): Seasonal variations of the equatorial undercurrent. EOS, Tran. Amer. Geophys. Un., 65, 954.
18. Tang, T. Y. and R. H. Weisberg (1985): On the equatorial Pacific response to the 1982/1983 El Nino-Southern Oscillation event. IAMAP/IAPSO Joint Assembly, Aug. 5-16, 1985, Honolulu, HI.
19. Weisberg, R.H. (1985): Observation of equatorial waves. IAMAP/IAPSO Joint Assembly, Aug. 5-16, 1985, Honolulu, HI., (invited review).
20. Weingartner, T.J. and R. H. Weisberg (1986). On the baroclinic response of the zonal pressure gradient in the equatorial Atlantic Ocean. EOS, Trans. Amer. Geophys. Un., 67, 1012.
21. Weisberg, R. H., J. H. Hickman, T.Y. Tang, and T. J. Weingartner (1986): Velocity and temperature observations relevant to the equatorial undercurrent from the SEQUAL Experiment at the equator, 28W. EOS, Trans. Amer. Geophys. Un., 67, 1012.
22. Tang, T.Y. and R. H. Weisberg (1986): Vertical structure of low frequency velocity and temperature variations in the eastern equatorial Pacific Ocean. EOS, Trans. Amer. Geophys. Un., 67, 1013.
23. Colin, C., S. L. Garzoli , and R. H. Weisberg (1986): Results from the SEQUAL/ FOCAL Experiments February 1983 through October 1984. EOS, Trans. Amer. Geophys. Un., 67, 1036.
24. Tang, T.Y. and R. H. Weisberg (1987): Instability waves in the equatorial Atlantic Ocean. EOS, Trans. Amer. Geophys. Un., 68, 1821.
25. Weingartner, T. J. and R. H. Weisberg (1987): Instability waves in the equatorial Atlantic Ocean. EOS, Trans. Amer. Geophys. Un., 68, 1328.

26. Weisberg, R. H. and T.Y. Tang (1987): Seasonal variations in upper ocean zonal transport on the equator at 28W. EOS, Trans. Amer. Geophys. Un., 68, 1321.
27. Weisberg, R. H. and T. Y. Tang (1989): A linear systems analysis of equatorial Atlantic Ocean thermocline variability. EOS, Trans. Amer. Geophys. Un., 70, 1162.
28. Weisberg, R. H. and F. E. Muller-Karger (1990): Satellite observations the annual cycle. EOS, Trans. Amer. Geophys. Un., 71,
29. Weingartner, T. J. and R. H. Weisberg (1990): On the annual cycle of equatorial upwelling in the central Atlantic Ocean. EOS, Trans. Amer. Geophys. Un., 71,
30. Weisberg, R. H., S. P. Hayes and M. J. McPhaden (1990). The evolution along the equator of winter-time zonal momentum pulses. EOS, Transactions of the American Geophysical Union, 71, 43, p. 1231; paper presented at the Fall 1990 meeting of the AGU.
31. Naar, D. F. and R. H. Weisberg (1991). Comparison of surface currents with the deepest seafloor spreading center on the east Pacific Rise, Pito Rift. The Oceanography Society, 2nd Annual Meeting March 24-28, 1991, St. Petersburg, FL.
32. Williams, R.G. and R. H. Weisberg (1991). Flow characteristics of Tampa Bay: Initial findings from a physical oceanographic real-time system. EOS, Trans. Amer. Geophys. Un., 72, 162. Paper presented at Spring 1991 AGU meeting.
33. Wang, C. and R. H. Weisberg, On the slow mode mechanism in ENSO related coupled ocean atmosphere models, presented at the Oceanography Society meeting, 04/13 - 04/16/93, Seattle, WA.
34. Weisberg, R. H., Upwelling in the central equatorial Pacific Ocean, invited paper at The Oceanography Society Pacific Basin Meeting, Honolulu, HI., 07/19 - 07/22/94.
35. Wang, C. and R. H. Weisberg, On the stability of equatorial modes in simplified coupled ocean-atmosphere model, presented at the fall annual meeting of the American Geophysical Union, 12/07/94, San Francisco, CA.
36. Mayer, D.A. and R. H. Weisberg, On the observational basis for ENSO modelling using COADS, presented at the fall annual meeting of the American Geophysical Union, 12/07/94, San Francisco, CA.
37. Weisberg, R.H. (1995) Low Frequency variability observed about the equator during TOGA-COARE, TOGA95, 04/02 - 04/07/95, Melbourne, Australia.

38. Wang, C. and R. H. Weisberg (1995) Low frequency variability of the ocean atmosphere system observed in the west-central Pacific, TOGA95, 04/02 - 04/07/95, Melbourne, Australia.
39. Weisberg, R. H. (1996), On the evolution of SST over the PACS region, Invited Paper, 76th AMS Annual Meeting, 02/02/96, Atlanta, GA.
40. B. Black, R. H. Weisberg and H. Yang (1996): Observations of currents on the west Florida continental shelf., 1996 Ocean Sciences meeting 2/14/96, San Diego, CA.
41. H. Yang, R. H. Weisberg and B. Black (1996): Three dimensional modeling of the west Florida continental shelf circulation, 1996 Ocean Sciences meeting 2/14/96, San Diego, CA.
42. Weisberg, R. H., C. Wang and D. Meyer (1996): An oscillator paradigm for the El Nino-Southern Oscillation. Fall 1996 meeting of the AGU, 12/18/96, San Francisco, CA.
43. Qiao L., and R. H. Weisberg (1996): Equatorial Undercurrent momentum balance in the central Pacific, Fall 1996 meeting of the AGU, 12/18/96, San Francisco, CA.
44. Morris, M., D. Roemmich, G. Meyers and R. H. Weisberg (1996): Mean heat and fresh water balances in the tropical western Pacific box bounded by high resolution XBT transects. Fall 1996 meeting of the AGU, 12/18/96, San Francisco, CA.
45. Wang, C., R. H. Weisberg (1996): Effects of Latent heat flux on the irregularity and phase locking of ENSO., Fall 1996 meeting of the AGU, 12/18/96, San Francisco, CA.
46. Li, Z., B. Black and R. H. Weisberg (1996): Modeling and observational work on the west Florida continental shelf, Fall 1996 meeting of the AGU, 12/18/96.
47. Weisberg, R.H., C. Wang, J. Virmani and D. Mayer (1997): ENSO western Pacific variability. IAMAS/IAPSO Joint Assemblies, 7/4/97, Melbourne Australia.
48. Yang, H, R.H. Weisberg and Z. Li (1997): On the West Florida continental shelf circulation. IAMAS/IAPSO Joint Assemblies, 7/8/97, Melbourne Australia.
49. Siegel, E.M., R.H. Weisberg, F. Muller-Karger, and H. Yang (1998). Comparison between surface currents measured in situ and inferred from satellite SST images on the West Florida Shelf. Spring annual meeting of the American Geophysical Union, Boston MA., 5/98.
50. Wang, C. and R.H. Weisberg (1998): ENSO western Pacific variability and the

- 1997-98 El Nino. Western Pacific Geophysics Meeting, July 22, 1998, Taipei Taiwan.
51. Wang, C. and R.H. Weisberg (1998): Evolution of the 1997-98 El Nino. 1998 fall meeting of the American Geophysical Union, EOS, Trans. AGU, 79, F29.
 52. Eriksen, C.C., R.A. Weller, and R.H. Weisberg (1998): Observations of low latitude, near inertial, internal gravity waves forced by westerly wind bursts. 1998 fall meeting of the American Geophysical Union, EOS, Trans. AGU, 79, F431.
 53. Weisberg, R.H. and D.A. Mayer (1998): Interhemisphere and intergyre exchange processes. 1998 fall meeting of the American Geophysical Union, EOS, Trans. AGU, 79, F484.
 54. Virmani, J.I. and R.H. Weisberg (1998): Observed Pacific equatorial currents during the development of the 1997-98 El Nino at 0°, 128°W. 1998 fall meeting of the American Geophysical Union, EOS, Trans. AGU, 79, F507.
 55. Gelfenbaum, G., Brooks, G.R., Davis, R.A., Jr., Doyle, L.J., Gibbs, A.E., Hine, A.C., Locker, S.D., Twichell, D.C., and Weisberg, R. H. 1998, Origins and development of the west-central Florida barrier island system: interpretations of the past and recommendations for the future: Rethinking the Role of Structures in Shore Protection; Proceedings of the 1998 National Conference on Beach Preservation and Technology, St. Petersburg, FL p. 248-259.
 56. Garzoli, S. et al (1999): A Climate Observing System for the Tropical Atlantic. OceanObs2000, San Rapheal FR. 10/20/99.
 57. Soloviev, A., M. Luther, and R.H. Weisberg (1999): Environmental array measurements at the SFOMC. 1999 Fall annual meeting of the American Geophysical Union, San Fransisco, CA.
 58. Weisberg, R.H. and Z. Li (2000) West Florida shelf response to synoptic scale winds. 2000 Ocean Sciences Meeting, San Antonio, TX., 1/26/00.
 59. Meyers, S. and R.H. Weisberg (2000) Observations of currents on the west Florida shelf break. 2000 Ocean Sciences Meeting, San Antonio, TX., 1/26/00.
 60. Weisberg, R.H. and J.I. Virmani (2001). Climate Variability of the Gulf of Mexico Coastal Oceans. Invited Talk at the 81st Annual AMS meeting, Albuquerque, NM., 1/01 (presented by J.I. Virmani).
 61. Weisberg, R.H. (2001) West Florida Shelf Real-Time Observing System. Presentation at the 81st Annual AMS meeting. Albuquerque, NM., 1/01 (presented by J.I. Virmani).

62. Luther, M.E., Soloviev, A.V., and R.H. Weisberg, 2001: Internal Tides Doppler-Shifted by the Gulf Stream. The Oceanography Society Meeting, 2-5 April 2001, Miami Beach, Florida, USA. Abstract in *Oceanography*, 14, No. 1, p. 35.
63. Virmani, J.I., R. He, and R.H. Weisberg (2001). Ocean-Atmosphere Flux Variability in the Gulf of Mexico, poster presented at the WCRP/SCOR Workshop on Intercomparison and Validation of Ocean-Atmosphere Flux Fields. Washington D.C., 5/01. Extended Abstract in WCRP-115, WMO/TD-No. 1083, 187-188, August 2001.
64. He, R. and R.H. Weisberg (2001). Observations and a model of tides on the West Florida Shelf. Poster presented at the Gordon Research Conference on Coastal Oceanography New London, NH, 6/01.
65. He, R. and R.H. Weisberg (2001). West Florida Shelf circulation and temperature budget for the spring 1999 transition. Poster presented at the Gordon Research Conference on Coastal Oceanography New London, NH, 6/01.
66. He, R. and R.H. Weisberg (2001). West Florida Shelf circulation and temperature budget for the spring 1999 transition. Presentation at the 7th International Coastal and Estuarine Modeling Conference, St. Pete Beach, FL., 11/01.
67. Weisberg, R.H., J.I. Virmani, and R. He (2001). West Florida Shelf Air-Sea Fluxes and SST Variability, presentation at the AMS 4th Conference on Coastal Atmospheric and Oceanic Prediction Processes. St. Pete Beach, FL., 11/01.
68. Halliwell, G.H., R.H. Weisberg, and D.A. Mayer (2001). 11/?, Argentina, IAPSO meeting, presentation by G. Halliwell
69. Virmani, J.I. and R.H. Weisberg (2001). Ocean-Atmosphere Flux Variability in the Gulf of Mexico, poster presented at the fall meeting of the American Geophysical Union, San Francisco CA 12/01 *Eos. Trans. AGU*, 82(47), Abstract OS51B-0485.
70. He, R. and R.H. Weisberg (2001) West Florida Shelf circulation and temperature budget for the spring 1999 transition. Paper presented at the Fall meeting of the American Geophysical Union, San Francisco CA., 12/01.
71. Weisberg, R.H., R. He, J. Virmani, and M. Luther (2001) Real time monitoring and circulation modeling on the West Florida Shelf Paper presented at the Fall meeting of the American Geophysical Union, San Francisco CA., 12/01 *Eos. Trans. AGU*, 82(47), Abstract OS31D-03.
72. Luther, M.E., R.H. Weisberg, and A.V. Soloviev, 2002: Internal Tides on the Shelf

- off Southeast Florida. Abstract for 2002 Ocean Sciences Meeting, 11-15 February 2002, Honolulu, Hawaii. Eos, Transactions, American Geophysical Union, v. 83, No. 4, 22 January 2002.
73. He, R. and R.H. Weisberg, 2002: Material property distributions on the West Florida Shelf. Abstract for 2002 Ocean Sciences Meeting, 11-15 February 2002, Honolulu, Hawaii. Eos, Transactions, American Geophysical Union, v. 83, No. 4, 22 January 2002.
 74. Weisberg, R.H. and R. He, 2002: Local and deep-ocean forcing contributions to anomalous water properties on the West Florida Shelf. Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 75. He, R. and R.H. Weisberg, 2002: West Florida Shelf circulation and temperature budget for the fall transition of 1998. Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 76. Vargo, G.A., C.A. Heil, D.N. Ault, M.B. Neely, S. Murasko, J. Havens, K.M. Lester, K. Dixon, R. Merkt, J.J. Walsh, R.H. Weisberg, and K.A. Steidinger, 2002: Four *K. brevis* blooms: A comparative analysis. Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 77. Milroy, S.P., G.J. Kirkpatrick, G.A. Vargo, R.H. Weisberg, and J.J. Walsh, 2002: Serendipity and synergy: A look at potential biophysical controls on the *K. brevis* blooms near Sarasota Fl (Sept.-Oct., 1999). Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 78. Jolliff, J., J.J. Walsh, R. He, R.H. Weisberg, A. Stoval-Leonard, R. Cominy, P.G. Coble, B. Nababan, F. Muller-Karger, J. Patch, and K. Carder, 2002: On the dispersal of terrestrial organic matter over the west Florida shelf: A simulation of river discharge and photolysis of colored dissolved organic matter. Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 79. Walsh, J.J., S.P. Milroy, J.K. Jolliff, B.P. Darrow, J.M. Lenes, R.H. Weisberg, and R. He, 2002: Three-dimensional biophysical models of Florida red tides. Proceedings Xth International Conference on Harmful Algae, St. Pete Be., FL., Oct. 2002.
 80. Weisberg, R.H., R. He, M. Luther, J. Walsh, R. Cole, J. Donovan, C. Merz and V. Subramanian (2002). A coastal ocean observing system and modeling program for the west Florida shelf. MTS/IEEE, Oceans2002 Conference, Biloxi MS., Oct. 2002.
 81. F.J. Kelly, J.S. Bonner, J.C. Perez, J.S. Adams, D. Prouty, D. Trujillo, R.H. Weisberg,

- M.E. Luther, R.He, R. Cole, J. Donovan, and C.R. Merz (2002). An HF-radar test Deployment amidst an ADCP array on the west Florida shelf. MTS/IEEE, Oceans2002 Conference, Biloxi MS., Oct. 2002.
82. H. Seim, F. Werner, M. Fletcher, J. Nelson, R. Jahnke, C. Mooers, L. Shay, R. Weisberg, M. Luther (2002). SEA-COOS: Southeast Atlantic Coastal Ocean Observing System. MTS/IEEE, Oceans2002 Conference, Biloxi MS., Oct. 2002.
83. L.C. Langebrake, C.E. Lembke, R.H. Weisberg, R.H. Byrne, D. Randy Russell, G. Tilbury, and R. Carr (2002). Design and initial results of a bottom stationing ocean profiler. MTS/IEEE, Oceans2002 Conference, Biloxi MS., Oct. 2002.
84. He, R. and R.H. Weisberg, A loop current intrusion case study on the West Florida Shelf. EOS, Trans. Am. Geophys. Un., Dec. 2002. Poster presented at the Fall annual meeting of the American Geophysical Union, San Francisco CA., 12/6-12/10/02.
85. Halliwell, G.R. and R.H. Weisberg, Dynamical and thermodynamical processes governing fluid pathways for the upper limb of the Atlantic overturning circulation. EOS, Trans. Am. Geophys. Un., Dec. 2002. Poster presented at the Fall annual meeting of the American Geophysical Union, San Francisco CA., 12/6-12/10/02.
86. Weisberg, R.H. and R. He. Material property distribution insights from a coordinated observing and modeling system for the west Florida continental shelf. EOS, Trans. Am. Geophys. Un., Dec. 2002. Paper presented at the Fall annual meeting of the American Geophysical Union, San Francisco CA., 12/6-12/10/02.
87. Weisberg, R.H. and M. Luther. West Florida Shelf coastal ocean monitoring and prediction system. American Meteorological Society 83rd annual meeting February 2003, Long Beach CA. Extended abstract published on combined preprints CD-ROM.
88. Virmani, J. and R.H. Weisberg, Air-sea interactions on the West Florida Shelf. American Meteorological Society 83rd annual meeting February 2003, Long Beach CA. Extended abstract published on combined preprints CD-ROM.
89. Weisberg, R.H. and R. He, Local and deep-ocean forcing contributions to anomalous water properties on the West Florida Shelf. Poster presented at the Gordon Research Conference on Coastal Ocean Modeling, New London, NH, June, 2003.
90. Weisberg, R.H. and L. Zheng, How estuaries work: A Charlotte Harbor example.

- Poster presented at the Gordon Research Conference on Coastal Ocean Modeling, New London, NH, June, 2003.
91. He, R., L. Liu, and R.H. Weisberg, Improvement of coastal surface wind fields and its effect on the performance of a coastal ocean circulation model. Poster presented at the Gordon Research Conference on Coastal Ocean Modeling, New London, NH, June, 2003.
 92. He, R., R.H. Weisberg, H. Zhang, F. Muller-Karger, and R.W. Helber. A cloud-free, satellite-derived, sea surface temperature analysis for the west Florida shelf. Poster presented at the Gordon Research Conference on Coastal Ocean Modeling, New London, NH, June, 2003.
 93. Virmani, J. I., R. He, and R.H. Weisberg, Air-Sea Flux Influences on West Florida Shelf Water Temperature. AMS Fifth Conference on Coastal Atmosphere and Oceanic Prediction and Processes, August 8-12, 2003. Seattle, Washington.
 94. Weisberg, R.H. and L. Zheng, Barotropic and Baroclinic Applications of FVCOM to the WFS for Hurricane Surge Simulations and Estuarine/Shelf Interactions. 84rd American Meteorological Society annual meeting January 2004, Seattle, WA.
 95. Weisberg, R.H., R. He, and Y. Liu, Improving Coastal Ocean Modeling Using In-Situ Data. 8th Symposium on Integrated Observing and Assimilation Systems for Atmosphere, Oceans and Land Surfaces, 84th AMS Annual Meeting, January 2004.
 96. Y. Liu, R.H. Weisberg, and R. He, Momentum balances over the West Florida Shelf, AGU Ocean Sciences Mtg., Portland OR, January, 2004.
 97. He, R., R.W. Helber, R.H. Weisberg, H. Zhang, and F. Muller-Karger, Merging Multiple Satellite Sea Surface Temperature Products: A Near-Real-Time Cloud-Free, Sea Surface Temperature Analysis for the Southeast Atlantic Coastal Ocean, AGU Ocean Sciences, Portland OR, January, 2004.
 98. R.H. Weisberg, R. He, R.W. Helber, C. Merz, S. Lichtenwalner, Y. Liu, M.E. Luther, and J.I. Virmani, A coastal ocean observing system and modeling program for the west Florida shelf. ASLO/TOS Ocean research Confr., Honolulu HI, February 2004.
 99. J. Virmani and R.H. Weisberg, Relative humidity over the west Florida continental shelf. American Meteorological Society 13th Confr. on interactions of the Sea and Atmosphere/16th Symposium on Boundary Layers and Turbulence, Portland ME. August 2004.
 100. R.W. Helber and R.H. Weisberg, Satellite Derived Surface Current Divergence in

- Relation to Equatorial Atlantic SST and Winds. CLIVAR 2004 International mtg., Baltimore MD, June 2004.
101. He, R. and R.H. Weisberg. Regional climatology and circulation in the coastal ocean of the southeastern United States. Presented at the 7th International Marine Environmental Modeling Seminar (IMEMS 2004), SINTEF, Washington DC, 10/04.
 102. Weisberg, R.H., R. He, and L. Zheng. Numerical modeling of the West Florida Shelf circulation with POM, ROMS, and FVCOM: model inter-comparisons gauged against in-situ measurements. Presented at the 7th International Marine Environmental Modeling Seminar (IMEMS 2004), SINTEF, Washington DC, 10/04.
 103. Weisberg, R.H., R. He, L. Zheng, A. Barth, and A. Azcarate. West Florida Shelf regional modeling. Presented at the GODAE symposium, St. Petersburg, FL., 11/04.
 104. Weisberg, R.H. A coastal ocean observing system for the West Florida Shelf. Presented at the GODAE symposium, St. Petersburg, FL., 11/04.
 105. Aretxabaleta, A.L., J.R. Nelson, J.O. Blanton, H.E. Seim, F.E. Werner, R.H. Weisberg, and B.O. Blanton. Cold event in the South Atlantic Bight during summer 2003: anomalous hydrographic and atmospheric conditions. Presented at the 2004 Fall Annual Meeting of the American Geophysical Union, San Francisco CA., 12/04.
 106. Liu, Y. and R.H. Weisberg. Ocean current spatial patterns from West Florida Shelf velocity time series using the Self Organizing Map. Presented at the 2004 Fall Annual Meeting of the American Geophysical Union, San Francisco CA., 12/04.
 107. Weisberg, R.H. Insights from a coordinated observing and modeling system for the West Florida Shelf. INVITED presentation at the 2004 Fall Annual Meeting of the American Geophysical Union, San Francisco CA., 12/04.
 108. Kirkpatrick, G. et al. Recent results from the BreveBuster: has *Karenia brevis* lost the element of surprise? Presented at HAB2004.
 109. Liu, Y. and R.H. Weisberg. On the optimal wind direction in changing the coastal sea level along the West Florida Shelf. Poster presented at the 85th AMS Annual meeting - Sixth Conference on Coastal Atmospheric and Oceanic Prediction and Processes. San Diego, California, January 2005.
 110. Liu, Y., R.H. Weisberg and R. He. Sea surface temperature patterns on the West Florida Shelf using Growing Hierarchical Self-Organizing Maps. Oral

presentation at the 85th AMS Annual meeting - Fourth Conference on Artificial Intelligence Applications to Environmental Science. San Diego, California, January 2005.

111. Liu, Y. and R.H. Weisberg: Across-shelf structure of the ocean circulation on the West Florida Shelf. Poster presented at the Gordon Research Conferences – Coastal Ocean Circulation. New London, NH, June 5~10, 2005.
112. L. Zheng and R.H. Weisberg: A numerical simulation of the hurricane Charley storm surge" presented at Charlotte Harbor Watershed Summit 2005 on 2/17/05 at Punta Gorda, Florida.
113. R.H. Weisberg and L. Zheng: A numerical simulation of the hurricane Charley storm surge in the light of lessons learned from Tampa Bay" presented at 19th Governor's Hurricane Conference on 5/13/05 at Tampa, Florida.
114. A. Barth, A. Alvera-Azcárate, R. He, R.W. Helber, R.H. Weisberg (2005). A Hindcast Experiment Nesting a Baroclinic West Florida Shelf Model in the 1/12° Operational North Atlantic HYCOM Model. 2005 AGU Spring Meeting. New Orleans, LA, May 2005.
115. A. Alvera-Azcárate, A. Barth, R. He, R.W. Helber, J. Law, and R.H. Weisberg (2005). Derivation of High-Resolution Ocean Surface Fields for Regional and Coastal Models. 2005 AGU Spring Meeting. New Orleans, LA, May 2005.
116. Weisberg, R.H. and L. Zheng. An FVCOM simulation of the Tampa Bay estuary circulation. Presented at the 18th biennial conference of the Estuarine Research Federation, Norfolk VA., 10/19/05.
117. Kirkpatrick, G. et al. Applications of the optical phytoplankton discriminator as an in situ component of an ocean observing system for HAB detection and tracking. Presented at the 18th biennial conference of the Estuarine Research Federation, Norfolk VA., 10/19/05.
118. Alvera-Azcarate, A., A. Barth, R.W. Helber, R. He, and R.H. Weisberg. Mapped fields of surface geostrophic currents based on altimetry, and fields of sea surface winds, cloud free sea surface temperature and chlorophyll concentration using monovariate OI and a multivariate EOF technique. Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
119. Barth, A., A. Alvera-Azcarate, R. He, and R.H. Weisberg, A baroclinic, regional West Florida Shelf model nested in the 1/12th degree North Atlantic HYCOM model. Presented at he 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
120. Dodge, R.E., A.V. Soloviev, T. Gustafson, M.E. Luther, and R.H. Weisberg.

- Response of the coastal ocean on the southeast Florida shelf to tropical cyclones during the 1999-2005 hurricane seasons. Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
121. Heil, C., K. Steidinger, A. Haywood, R. Pigg, R. Weisberg, G. Kirkpatrick, C. Scholin, Development and implementation of new technology for monitoring of harmful algal blooms in Florida. Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
 122. Helber, R.W., F. Bonjean, R.H. Weisberg, E.S. Johnson, and L.Yu, Heat transport analyses of the tropical Atlantic Ocean mixed layer. Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
 123. Liu, Y. and R.H. Weisberg, Ocean current structures and sea surface height estimates across the West Florida Shelf. Poster presented at The 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
 124. Nelson, J.R., H.E. Seim, R.H. Bacon, M. Fletcher, C.N.K. Mooers, R.H. Weisberg and F.E. Werner, The Southeast Atlantic Coastal Ocean Observing System (SEACOOS): Implementation of a regional program for the Southeastern United States. Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
 125. Weisberg, R.H., A coordinated coastal ocean observing and modeling system for the West Florida Shelf, Presented at the 2006 Ocean Sciences Meeting, Honolulu, Hawaii, Feb 20-24, 2006.
 126. Virmani, J. I., and R. H. Weisberg. Atlantic Hurricane Seasons: Active (2005) vs. Quiescent (2006), poster presented at Fall Annual Meeting of the American Geophysical Union, San Francisco CA., December 2006, Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract U53B-0045
 127. Liu, Y. and R.H. Weisberg, and L.K. Shay: Current patterns on the West Florida Shelf from joint Self-Organizing Map analyses of HF Radar and ADCP data. Fall Annual Meeting of the American Geophysical Union, San Francisco CA., December 2006, Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract OS31F-06.
 128. Alvera-Azcárate, A., A. Barth, J.I. Virmani and R.H. Weisberg. IAS Mesoscale Surface Circulation Observed Through Satellite Altimetry And Its Influence In A Small Scale, Coastal Domain, Studied With A ROMS Model Of The Cariaco Basin. AGU 2007 Joint Assembly, 22–25 May 2007, Acapulco, Mexico.
 129. Alvera-Azcárate, A., A. Barth, and R.H. Weisberg. A nested hydrodynamic model of the Cariaco Basin (Venezuela): study of the basin interactions with the Caribbean Sea. Gordon Research Conference on Coastal Ocean Modeling 17 - 22 June 2007,

Colby-Sawyer College, New London, NH.

130. Barth, A., A. Alvera-Azcárate, and R.H. Weisberg. Ensemble-based simulation of HF-radar currents in a West Florida shelf ROMS model nested in HYCOM., Gordon Research Conference on Coastal Ocean Modeling 17 - 22 June 2007, Colby-Sawyer College, New London, NH.
131. Zheng, L. and R.H. Weisberg. A Storm Surge Simulation for an Ivan-like Hurricane Making Landfall within the Tampa Bay Region., Gordon Research Conference on Coastal Ocean Modeling 17 - 22 June 2007, Colby-Sawyer College, New London, NH.
132. Zheng, L. and R.H. Weisberg. A baroclinic circulation simulation for the shallow, Florida Rookery Bay estuary. Estuarine Research Federation Meeting, Newport R.I., November 2007.
133. Barth, A., A. Alvera-Azcárate, L. Zheng, and R. H. Weisberg (2008), A Nested Model of the West Florida Shelf: Assimilation of High-Frequency Radar Currents and study of Loop Current generated flow, in Geophys. Res. Abs., vol. 10, 4th EGU General Assembly.
134. Barth, A., A. Alvera-Azcárate, and R. H. Weisberg (2008), Assimilation of High-Frequency Radar Currents in a Nested Model of the West Florida Shelf, in Eos Trans. AGU, vol. 88, Fall Meeting Supplement, Abstract OS52A-02.
135. Weisberg, R.H. (2008), Comparisons between 2-D and 3-D simulations of Hurricane storm surge based on an Ivan-like storm for Tampa Bay, Coastal Summit Conference, St. Pete Beach, FL
136. Zheng, L.Y. and R.H. Weisberg. Rookery Bay and Naples Bay estuarine circulation simulations: applications to tides and fresh water regulations. Presented on 11/19/08, Coastal Cities Summit, St. Pete Beach, Florida.
137. Weisberg, R.H. (2008), Lessons learned from a coordinated observing and modeling program on the West Florida Shelf, 2008 Fall Annual Meeting of the American Geophysical Union, San Francisco, CA, invited presentation.
138. Liu, Y., C.R. Merz, and R.H. Weisberg (2008), HF-radar performance on a low energy environment as found using CODAR SeaSonde on the West Florida Shelf., 2008 Fall Annual Meeting of the American Geophysical Union, San Francisco, CA.
139. Zheng, L.Y. and R.H. Weisberg. The application of FVCOM to estimate the flushing time for Snug Harbor project in Tampa Bay, Florida. Presented on 6/12/08 at

Third Institute of Oceanography, State Oceanic Administration, Xiamen, Fujian, China.

140. Zheng, L.Y. and R.H. Weisberg. Rookery Bay and Naples Bay estuarine hydrodynamic circulation simulations: applications to tides and fresh water inflow regulation. Presented on 6/16/08 at International Symposium on Jiulong river watershed and Xiamen Bay ecological system management, Third Institute of Oceanography, State Oceanic Administration, Xiamen, Fujian, China.
141. Zheng, L.Y., R.H. Wiesberg, A. Barth, and A. Alvera (2008), Circulation influences on west Florida shelf red-tide events: Finite volume model applications to shelf-estuary interactions, Poster on 3/3/08 at 2008 Ocean Science Meeting, Orlando, FL.
142. Weisberg, R.H., L. Zheng and Y. Huang, Storm surge of Ivan-like Hurricane making landfall near Tampa Bay. Presented at the TAMPA BASIS 5 mtg, St. Petersburg, FL., 10/20/09.
143. Weisberg, R.H. and L. Zheng, Tampa Bay circulation driven by rivers, tides and winds, and its connection with the Gulf of Mexico: How the bay flushes. Presented at the TAMPA BASIS 5 mtg, St. Petersburg, FL., 10/20/09.
144. Liu, Y., R.H. Weisberg, and D.A. Mayer: Climatology of West Florida Shelf Circulation Observed with long-Term Moorings. The 15th Ocean Sciences Meeting, Portland, Oregon, February 22-26, 2010.
145. Liu, Y., R.H. Weisberg, L. Zheng, and C. Hu: Tracking Gulf of Mexico Oil Spill with Numerical Models and Satellite Imagery. Southeast Coastal Ocean Observing Regional Association (SECOORA) 2010 Annual Board & Member Meeting, Savanna, Georgia, USA, April 12-13, 2010 (*Invited Keynote Talk*).
146. Liu, Y., and R.H. Weisberg: Lessons learned from an integrated coastal ocean observing system on the West Florida Shelf. 38th COSPAR Scientific Assembly, Bremen, Germany, July 18-25, 2010 (*Invited*).
147. Weisberg, R.H., Y. Liu, L. Zheng, and C. Hu: The Oil Trajectory: How it behaved in the Gulf of Mexico and why, and where might residual oil be heading? CSDMS Meeting, San Antonio, Texas, USA, October 14-17, 2010 (*Invited Keynote Talk*).
148. Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng: Trajectory Forecasts Based on Numerical Ocean Circulation Models and Satellite Observations: A Rapid Response to Deepwater Horizon Oil Spill, AGU Fall Meeting, San Francisco, California, USA, December 13-17, 2010.

149. Weisberg, R.H., Y. Liu, L. Zheng, C. Hu, and C. Lembke: Rapid Response to Deepwater Horizon Oil Spill from University of South Florida: Numerical Models, Remote Sensing, and In-situ Observations, AGU Fall Meeting, San Francisco, California, USA, December 13-17, 2010 (*Invited*).
150. R.H. Weisberg, Invited speaker: Commentary on Ocean pollution, water quality and ecology, Marine Technical Society TECHSURGE Meeting, 2011 Ocean Pollution: From Technology to Management and Policy, April 13-14, 2011, Sarasota, FL.
151. Weisberg, R.H., and Y. Liu, Invited speaker: Response to the Deepwater Horizon oil spill by the USF Ocean Circulation Group: A review, Deepwater Horizon Oil Spill Principal Investigator Conference, Sponsored by the NSTC Subcommittee on Ocean Science and Technology, St. Petersburg, FL October 25-26, 2011.
152. Liu, Y., R.H. Weisberg, S. Vignudelli, L. Roblou, and C. Merz: Altimetry on the West Florida Shelf, The 5th Coastal Altimetry Workshop, San Diego, California, October, 16-18, 2011.
153. Liu, Y., R.H. Weisberg, C. Hu, and L. Zheng, Invited speaker: Combining numerical ocean circulation models with satellite observations in a trajectory forecast system: a rapid response to the Deepwater Horizon oil spill, SPIE Conference 8030 - Ocean Sensing and Monitoring, Orlando, Florida, April 25-29, 2011.
154. Zheng, L.Y., R.H. Weisberg, R. Luettich, J. Westerink and P.C. Kerr, Implications of 2D vs 3D model formulation on Hurricane Ike storm surge, 10th Symposium on the Coastal Environment, 92nd Annual American Meteorological Society Meeting, 24 January 24, 2012
155. Zheng, L. and R.H. Weisberg, Modeling the west Florida coastal ocean by downscaling from the deep ocean, across the continental shelf and into the estuaries. Ocean Science Meeting, Salt Lake City, Utah, 2/23/2012 .
156. Liu, Y., and R.H. Weisberg, Seasonal variation of currents and sea level on the West Florida Shelf as revealed by long-term moorings, 2012 Ocean Sciences Meeting, Salt Lake City, 2/23/2012.
157. Lembke, C., R.H. Weisberg, Y. Liu, and D. English, Glider and other observations of anomalous upwelling on the West Florid Shelf in spring/summer 2010, 2012 Ocean Sciences Meeting, Salt Lake City, 2/22/2012 (poster presentation).
158. Merz, C.R., R.H. Weisberg, Y. Liu, Evolution of the USF/CMS CODAR and WERA HF Radar Network, Oceans'12 MTS/IEEE, Hampton Roads, Virginia, 14-19 Oct. 2012.

159. Jochens, A., M. Howard, L. Campbell, R. Mullins-Perry, G. Kirkpatrick, B. Kirkpatrick, C. Simoniello, C. Hu, R. Weisberg, C. Lembke, A. Corcoran, J. Ivey, S. Wolf, Integrating Observing Systems to Benefit Stakeholders: A Case Study in the Gulf of Mexico, Oceans' 12 MTS/IEEE, Hampton Roads, Virginia, 14-19 Oct. 2012.
160. Koch, A.O., R.W. Helber, J.G. Richman, C.N. Barron, Y. Liu, C. Lembke, R.H. Weisberg, Horizontal density compensation in the Gulf of Mexico, AGU Fall Meeting, San Francisco, CA. Dec. 3-7, 2012 (poster presentation)
161. Huang, Y., R.H. Weisberg, and L. Zheng (2012), Gulf of Mexico hurricane wave simulations using SWAN: Bulk formula based drag coefficient sensitivity for Hurricane Ike. 2012 American Geophysical Union (AGU) Fall Meeting, December 3-7, 2012, Moscone Center, San Francisco, California, USA.
162. Kerr, P.C., A.S. Donahue, J.J. Westerink, R.A. Luettich Jr., L.Y. Zheng, R.H. Weisberg, Y. Huang, H.V. Wang, Y. Teng, D. Forrest, A. Roland, A. T. Haase, A. Kramer, A. Taylor, J.R. Rhome, J. Feyen, R.P. Signell, J. Hanson, M.E. Hope, R. Estes, R. Dunbar, L. Semeraro, H.J. Westerink, A. Kennedy, J.M. Smith, M.D. Powell, V.J. Cardone, A.T. Cox: Coastal Inundation Testbed Inter-Model Evaluation of Tides, Waves, and Hurricane Surge in the Gulf of Mexico, AGU Fall Meeting, San Francisco, California, USA, December, 2012.
163. Weisberg, R.H. and L. Zheng. Did dissolved hydrocarbons impact the west Florida continental shelf? GoMRI meeting in New Orleans, 1/21/13.
164. Weisberg, R.H. and L. Zheng. West Florida continental shelf circulation in 2010. GoMRI meeting in New Orleans, 1/22/13.
165. Liu, Y., R.H. Weisberg, and S. Vignudelli: Valuation of altimetry-derived surface current products using Lagrangian drifter trajectories in the Eastern Gulf of Mexico , The 7th Coastal Altimetry Workshop, Boulder, CO, October, 7-8, 2013.
166. Weisberg, R.H., L. Zheng, and Y. Liu. West Florida Coastal Ocean Model: Downscaling from deep-ocean, across the continental shelf and into estuaries by nesting FVCOM into GOM HYCOM. GODAE mtg. in Baltimore, MD, 11/4/13
167. Weisberg, R.H., L.Y. Zheng and E. Peebles, Gag Grouper Larvae Pathways on the West Florida Shelf, 2014 Gulf of Mexico Oil Spill and Ecosystem Conference, Mobile, AL., 1/14
168. Weisberg, R.H., L.Y. Zheng and Y. Liu Basic tenets for coastal ocean ecosystems monitoring, 2014 Gulf of Mexico Oil Spill and Ecosystem Conference, Mobile, AL., 1/14

169. Weisberg, R.H., L.Y. Zheng, Y. Liu, S. Murawski, C. Hu, J. Paul and D. Hollander Did Deepwater Horizon Hydrocarbons Transit to the West Florida Continental Shelf?, 2014 Gulf of Mexico Oil Spill and Ecosystem Conference, Mobile, AL., 1/14.
170. Zheng, L.Y. and R.H. Weisberg A Northeast Gulf of Mexico Coastal Ocean Model: FVCOM Nested in GOM HYCOM, with Application to 2010, 2014 Gulf of Mexico Oil Spill and Ecosystem Conference, Mobile, AL., 1/14.
171. Locker, S., N. Wienders, I. MacDonald, K. Speer, P. Hamilton, R. Weisberg, L. Zheng, A.Hine Interaction Between Geomorphology, Sedimentary Processes, And Circulation - Northeastern Gulf Of Mexico, 2014 Gulf of Mexico Oil Spill and Ecosystem Conference, Mobile, AL., 1/14.
172. Dzvonkovskaya, A., C. R. Merz, Y. Liu, R. H. Weisberg, T. Helzel, and L. Petersen, 2014: Initial surface current measurements on the West Florida Shelf using WERA HF ocean radar with multiple input multiple output (MIMO) synthetic aperture, Proc. of MTS/IEEE Int. Conf. OCEANS'14, St. John's, Canada, 9/14.
173. Dzvonkovskaya, A., T. Helzel, L. Petersen, C. R. Merz, Y. Liu, and R. H. Weisberg, 2014: Initial results of ship detection and tracking using WERA HF ocean radar with MIMO configuration, Proc. of Int. Radar Symposium IRS-2014, Gdansk, Poland, 6/14, pp. 317-319.
174. Gomez, R., T. Helzel, L. Petersen, M. Kniephoff, C.R. Merz, Y. Liu, and R.H. Weisberg, 2014: Real-time quality control of current velocity data on individual grid cells in WERA HF radar, MTS/IEEE 2014, Taipei Taiwan, 4/14.
175. Liu, Y., R.H. Weisberg, and C.R. Merz, 2014: Assessment of CODAR and WERA HF radars in mapping currents on the West Florida Shelf, 2014 Ocean Sciences Meeting, Honolulu, Hawaii, 2/14.
176. Zheng, L.Y., R.H. Weisberg and Y. Liu. West Florida Coastal Ocean Model: Downscaling from deep-ocean, across the continental shelf and into estuaries by nesting FVCOM into GOM HYCOM. Presented on 06/05/2015 in Gordon Research Conference: Coastal Ocean Modeling in University of New England, Biddeford, ME.
177. Zheng, L.Y., J. Zhu and R.H. Weisberg. On the salt balance of Tampa Bay, Florida. Presented on 06/05/2015 in Gordon Research Conference: Coastal Ocean Modeling in University of New England, Biddeford, ME.
178. Zheng, L.Y. and R.H. Weisberg. Has There Been a Trend in Eastern Gulf of Mexico Temperature in Recent Decades? Presented on 09/28/2015 at BASIS6 in St. Petersburg, Florida.

179. Weisberg, R.H. and L.Y. Zheng. A West Florida Coastal Ocean Model (WFCOM). Presented on 10/20/2015 at 2015 FVCOM workshop in Bedford Institute of Oceanography, Dartmouth, Canada.
180. Zheng, L.Y. and R.H. Weisberg. A High Resolution Tampa Bay and Vicinity Circulation Model with Applications to Flushing and Salt Balance. Presented on 10/21/2015 at 2015 FVCOM workshop in Bedford Institute of Oceanography, Dartmouth, Canada.
181. Liu, Y., R.H. Weisberg, S. Vignudelli (2015), Patterns of the Loop Current System and Regions of Sea Surface Height Variability in the Eastern Gulf of Mexico Revealed by Self-Organizing Maps, The 9th Coastal Altimetry Workshop, 18-19 October 2015, Reston, Virginia, USA.
182. Liu, Y. (on behalf of all the PIs) (2015), Accomplishments SECOORA IOOS Award 2010-2015: [In-situ observations – buoys, shore stations](#), SECOORA Annual Meeting, May 2015, Jacksonville, FL.
183. Weisberg, R.H., C.R. Merz, Y. Liu, and L. Zheng (2015), A Coordinated Coastal Ocean Observing and Modeling System on the West Florida Shelf, SECOORA Annual Meeting, May 2015, Jacksonville, FL.
184. Abascal, A.J., S. Castanedo, R. Mínguez, R. Medina, Y. Liu, and R.H. Weisberg (2015), Stochastic Lagrangian trajectory modeling of surface drifters deployed during the Deepwater Horizon oil spill, The 38th AMOP Technical Seminar on Environmental Contamination and Response, June 2-4, 2015, Environment and Climate Change Canada, Ottawa, ON, Canada.
185. Liu, Y and R.H. Weisberg (2016), Gulf of Mexico Loop Current Interactions with the West Florida Shelf and its Influence on Harmful Algae Blooms, Ocean Sciences Mtg, New Orleans, LA, 2/21/2/26, presentation EC33A-08.
186. Weisberg, R.H, Y. Liu and L. Zheng (2016), The Control of West Florida Continental Shelf Material Property Distributions by a Combination of Deep-Ocean and Local Forcing, Ocean Sciences Mtg, New Orleans, LA, 2/21/2/26, presentation PO24D-2980.
187. Hu, C., B. Barnes, B. Murch, P. Carlson, R. Weisberg, L. Zheng, K. Atwood, and J. Lenos (2017). Satellite-based decision-support tools to monitor algal blooms and assess water quality in near real-time. *2017 Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA. Feb 6-9, 2017.
188. Liu, Y., R.H. Weisberg, J.M. Lenos, L. Zheng, K. Hubbard, and J.J. Walsh (2017), An altimetry-derived index of the offshore forcing on the “pressure point” of the

- West Florida Shelf: Anomalous upwelling and its influence on harmful algal blooms, invited talk, AGU Fall Meeting, New Orleans, Dec. 2017.
189. Liu, Y., R.H. Weisberg (2017), A skill score of trajectory model evaluation using reinitialized series of normalized cumulative Lagrangian separation, oral presentation, AGU Fall Meeting, New Orleans, Dec. 2017.
 190. Liu, Y., R.H. Weisberg, J. Chen, C.R. Merz, J. Law, and L. Zheng (2017), West Florida Shelf response to hurricane Irma, poster presentation, AGU Fall Meeting, New Orleans, Dec. 2017.
 191. Liu, Y., R.H. Weisberg, C.R. Merz, J. Law, L. Zheng, and J. Chen (2018), West Florida Shelf response to hurricane Irma, Ocean Sciences Meeting, Portland Oregon, Feb 2018 (oral presentation).
 192. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2018), Tampa Bay response to Hurricane Irma. Ocean Sciences Meeting, Portland Oregon, Feb 2018 (lightning poster).
 193. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2018), On the momentum balance of Tampa Bay. Ocean Sciences Meeting, Portland Oregon, Feb 2018 (poster presentation).
 194. Liu, Y., R.H. Weisberg, J. Chen, C.R. Merz, J. Law, and L. Zheng (2018), West Florida Shelf response to Hurricane Irma, AGU Fall Meeting, Washington DC, Dec 2018 (poster presentation).
 195. Liu, Y., R.H. Weisberg, S. Vignudelli, and G.T. Mitchum (2018), Dual Self-Organizing Map (SOM) and joint SOM-wavelet analyses: An application in the Gulf of Mexico Loop Current system, 2018 AGU Fall Meeting, Washington DC, Dec 2018 (poster presentation).
 196. Liu, Y., R.H. Weisberg, K. Hubbard, M. Garrett, and L. Zheng (2018), Short-Term and Seasonal Forecasts of Harmful Algal Blooms on the West Florida Shelf, 2018 AGU Fall Meeting, Washington DC, Dec 2018 (poster presentation).
 197. Liu, Y., R.H. Weisberg, and L. Zheng (2018), Northeastern Gulf of Mexico coastal ocean response to Hurricane Michael, 2018 AGU Fall Meeting, Washington DC, December 2018 (poster presentation).
 198. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2018) The Tampa Bay Coastal Ocean Model (TBCOM) performance for Hurricane Irma. AGU Fall Meeting, Washington, D.C., Dec 2018 (oral presentation).

199. Weisberg, R.H., Liu, Y. (2019), The coastal ocean circulation influence on the 2018 West Florida Shelf *K. brevis* red tide bloom, AGU Fall Meeting, San Francisco, December 2019 (poster).
200. Liu, Y., Weisberg, R.H. (2019), Deep ocean interactions with the West Florida Shelf: the role of the "Pressure Point" on both across shelf transport and the penetration of the Loop Current into the Gulf of Mexico, AGU Fall Meeting, San Francisco, December 2019 (poster).
201. Singhofen, P.J, Liu, Y., Weisberg, R.H. (2019), Automated Hyper-Resolution Flood Forecasting in a Coastal Urban Setting, AGU Fall Meeting, San Francisco, December 2019 (oral).
202. Yang, Y., Weisberg, R.H., Liu, Y. Liang, X.S. (2019), Instabilities and multiscale interactions underlying the Loop Current eddy shedding in the Gulf of Mexico, AGU Fall Meeting, San Francisco, December 2019 (poster).
203. Liu, Y., Weisberg, R.H., Hubbard, K, Garret, M., Chen, J. Zheng, L. (2019), Short-Term and Seasonal Forecast of Harmful Algal Blooms on the Eastern Gulf of Mexico Coast, GoMOSES, New Orleans, LA, Feb 2019 (poster).
204. Vasbinder, K., C. Ainsworth, G. Zapfe, R.H. Weisberg, and Y. Liu. "Gulf of Mexico Larval Trajectories" American Fisheries Society and The Wildlife Society 2019 Joint Annual Meeting, Reno, NV, October 2019.
205. Vasbinder, K., C. Ainsworth, G., R.H. Weisberg, and Y. Liu. "Larval Vertical Migration Patterns and Their Impact on Larval Dispersal in the Gulf of Mexico" American Fisheries Society Florida Chapter Meeting, Haines City, FL, April 2019.
206. Liu, Y., Weisberg, R.H., Zheng, L. (2020), Termination of the 2017-2018 Florida red tide – A tracer model perspective, AGU Fall Meeting (Virtual), 7 December 2020 (talk).
207. Liu, Y., Merz, C.R., Weisberg, R.H., Shay, L.K., Glenn, S., Smith, M. (2020), Comparisons of Altimetry and Model Products with High-Frequency Radar Observed Radial Currents in the Straits of Florida, Ocean Surface Topography Science and Technology (OSTST) Virtual Meeting, 19–23 October 2020 (online PPT).
208. Vasbinder, K., C. Ainsworth, G. Zapfe, R.H. Weisberg, and Y. Liu (2020), Larval Dispersal and Ecosystem Management: Using larval trajectories to identify key habitats in the Gulf of Mexico, American Fisheries Society Virtual Annual Meeting, September 2020 (talk).

209. Yang, Y., R.H. Weisberg, Y. Liu, and X.S. Liang (2020), Instabilities and multiscale interactions underlying the Loop Current eddy shedding in the Gulf of Mexico, GoMOSES, Tampa, February 2020 (talk).
210. Liu, Y., and R.H. Weisberg (2020), Deep ocean interactions with the West Florida Shelf: the role of the “Pressure Point” on both across shelf transport and the penetration of the Loop Current into the Gulf of Mexico, Ocean Sciences Meeting, San Diego, February 2020 (talk).
211. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2020), [The Tampa Bay Coastal Ocean Model Nowcast/Forecast System with Ecological Applications](#), Ocean Sciences Meeting, San Diego, February 2020 (poster).
212. Yang, Y., R.H. Weisberg, Y. Liu, and X.S. Liang (2020), Instabilities and multiscale interactions underlying the Loop Current eddy shedding in the Gulf of Mexico, Ocean Sciences Meeting, San Diego, February 2020 (poster).
213. Zhang, Y., C. Hu, Y. Liu, R.H. Weisberg, and V. Kourafalou (2020), Submesoscale and mesoscale eddies in the Florida Straits: Observations from satellite ocean color measurements, Ocean Sciences Meeting, San Diego, February 2020 (poster).
214. Vasbinder, K., C. Ainsworth, G. Zapfe, R. Weisberg, and Y. Liu (2020), Larval Dynamics in the Gulf of Mexico: Using Ontogenetic Vertical Migration Patterns to Inform Larval Trajectories and Assess Ecosystem Impacts, Ocean Sciences Meeting, San Diego, February 2020 (poster).

PRESENTATION AT WORKSHOP/SEMINARS:

Scholarly Presentations and Workshops in addition to society meetings with published abstracts.

1. March 23-30, 1974, Leningrad, USSR: GARP Atlantic Tropical Experiment (GATE) - Oceanographic Subprogram planning workshop. Invited.
2. August 13-25, 1975, Geneva, Switzerland: GATE Oceanography Symposium. Invited.
3. December 16, 1975, Woods Hole, MA: Invited seminar at the Woods Hole Oceanographic Institute.
4. May 19-22, 1976, Georgetown, SC: Transport Processes in Estuarine Environments, Belle W. Baruch Institute for Marine Biology and Coastal Research Symposium sponsored by ONR.

5. November 10-14, 1976, Stony Brook, NY: Estuarine Transport Processes, Marine Sciences Research Center, State University of New York. Invited.
6. February 18 - March 11, 1977, Miami, FL: GATE Oceanographic Workshop. Invited.
7. January, 1978, Fort Lauderdale, FL: INDEX Workshop.
8. April 2-6, 1979, Boulder, CO: Physics of the Equatorial Oceans Workshop.
9. April 28-30, 1980, Tallahassee, FL: Equatorial Theoretical Panel Meeting.
10. April 27-30, 1981, Venice, Italy: SCOR Working Group 47 Meeting.
11. October 28-30, 1981, Palisades, NY: Equatorial Theoretical Panel Meeting.
12. November 3-4, 1983, AOML, Miami, FL: ENSO Data Display Workshop.
13. September 4, 1984, Princeton, NJ: Invited seminar at GFDL, Princeton Univ.
14. October 25, 1984, Tallahassee, FL: Invited seminar at Florida State University.
15. November 15, 1984, Queens, NY: Convened an Ad Hoc Meeting for the planning of a U.S. TOGA Atlantic Program. Report submitted to NSF.
16. January 23-24, 1985, Princeton, NJ: SEQUAL Experiment Principal Investigators Meeting at GFDL, Princeton University for drafting a cover document to accompany data analysis proposals to NSF.
17. February 27, 1985, St. Petersburg, FL: Invited seminar at St. Petersburg Junior College.
18. June 19-21, 1985, New York, NY: U.S./French SEQUAL/FOCAL Program Workshop at Columbia University, Three talks presented.
19. July 29-30, 1985, Palisades, NY: SEQUAL Experiment Principal Investigators Meeting at LDGO, Columbia University.
20. September 6-15, 1985, Rio de Janeiro, Brazil: Invitee to the 4th session of the CCCO Tropical Atlantic Climate Studies Panel and Workshop. I organized the U.S. invitee participation (10 participants) by authoring a letter proposal to the U.S. TOGA Project Office/NOAA/NSF for travel support. A paper was presented and a contribution was made to the workshop report.
21. October 14, 1985, Miami, FL: Invitee to the Indo/U.S. Bilateral Program Meeting on

- the Arabian Sea cooling at RSMAS, University of Miami., Dr. T. Y. Tang attended and presented a paper.
22. October 16-18, 1985, Boulder, CO: Invitee to NOAA Equatorial Circulation Workshop held at NCAR. A presentation and a written contribution were given.
 23. November 5, 1985, Beaufort, NC: Duke/UNC Oceanographic Consortium Workshop. Three talks were given along with my associate and student T.Y. Tang and T.J. Weingartner.
 24. December 10, 1985, Tallahassee, FL: FDER workshop on the Apalachicola Bay. Invited.
 25. December 15-18, 1985, Seattle, WA: Invited seminar at JISAO, University of Washington and NOAA/PMEL. (a position was subsequently offered).
 26. May 28, 1986, Atlanta, GA: COE/FDER Meeting on the Apalachicola Bay. Invited.
 27. August 11-15, 1986, Honolulu, HI: Invitee to the U.S. TOGA Workshop on the Dynamics of the Equatorial Oceans held at the University of Hawaii. A review article entitled "Observations pertinent to instability waves in the equatorial oceans" was given and subsequently published.
 28. October 29-30, 1986, Woods Hole, MA: North Brazil Current Experiment (NOBEX) initial organizational meeting at Woods Hole Oceanographic Institution, paper presented.
 29. January 20, 1987, Washington, DC: NOBEX briefing delivered to the Oceanography Section, National Science Foundation.
 30. February 19, 1987, New York, NY: NOBEX Principal Investigator Meeting at Columbia University.
 31. March 26, 1987, Miami, FL: Invited seminar at RSMAS, University of Miami.
 32. June 15-19, 1987, Paris, France: U.S./French SEQUAL/FOCAL Program Workshop, three papers presented.
 33. June 23-23, 1987, Paris, France: Invitee to the 5th session of the CCCO Tropical Atlantic Climate Studies Panel. Presentation given and contribution made to the workshop report.
 34. August 3-5, 1987, Durham, NH: Invitee to the U.S./Brazil Physical Oceanography Workshop held at the University of New Hampshire. A presentation was given.

35. September 21-23, 1987, Honolulu, HI: Invitee to an NSF sponsored World Ocean Circulation Experiment (WOCE) Workshop on the Tropical Oceans.
36. October 6-8, 1987, Seattle, WA: Invitee to NSF sponsored WOCE Workshop on on direct velocity measurements.
37. December 1987, Washington, DC: NOBEX P.I. meeting at NSF.
38. January 5, 1988, Tallahassee, FL: Meeting with FDER and COE on Apalachicola Bay. Invited.
39. April 14, 1988, Princeton, NJ: Invited seminar at GFDL, Princeton University.
40. April 27-29, 1988, Miami, FL: WOCE Core 3 workshop invitee and speaker.
41. September 27-29, 1988, Dallas, TX: WOCE Moored Measurements Implementation Panel Meeting. Invited.
42. October 19-20, 1988, Miami, FL: Invited seminar at NOAA AOML.
43. October 21, 1988, Boston, MA: WOCE Process Studies Implementation Panel Meeting. I presented a straw position for a Tropical Atlantic Program. Invited.
44. November 16, 1988, Miami FL: NOAA STACS Program Workshop attendee.
45. January 24-25, 1989, Washington, DC: NSF review panel member
46. February 7-9, 1989, Miami, FL: Invited participant at NOAA-EPOCS mid-term review.
47. March 8-10, 1989, Honolulu, HI: Invited participant and speaker at U.S. TOGA Program (NOAA) mid-term review, abstract to appear.
48. March 22, 1989: Invited seminar on Ocean Circulation at New College.
49. November 6, 1989, Palisades, NY: Invited seminar at Lamont-Doherty Geological Observatory of Columbia University.
50. January 10-11, 1990, Miami, FL: Invited presentation and workshop participant at NOAA/AMOL (Tropical Atlantic Climate Studies Meeting).
51. January 17-19, 1990, Miami, FL: Invited presentation and workshop participant at NOAA/AOML (Equatorial Pacific Ocean Climate Studies Meeting).
52. February 20, 1990, Raleigh, NC: Presided over the Ph.D. thesis defense of Thomas

Weingartner as major professor and thesis committee chairman at NCSU.

53. February 25-28, 1990, Honolulu, HI: Invited presentation and workshop participant at University of Hawaii, NAS TOGA Panel Ad Hoc Committee on the tropical Pacific Monitoring Array.
54. March 17-25, 1990, Taipei, Taiwan, ROC: Invited visiting scientist, National Taiwan University. Three lectures given plus a presentation at the National Research Council.
55. March 28, 1990, Tallahassee, FL: NFWFMD advisory panel meeting.
56. June 18-20, 1990, Washington, D.C.: NOAA review panel member.
57. July 15-20, 1990, Honolulu, HI: International TOGA Science Conference, presentation given with published abstract.
58. October 1-5, 1990, Fortaleza, Brazil: Invitee and presenter at a Workshop on the Relationship of the Atlantic Ocean to Regional and Global Climate Variations - U.S. Brazil Science and Technology Initiative.
59. January 22-24, 1991, Miami, FL: Invited Participant. NOAA-EPOCS Annual Review
60. February 13, 1991, M. S. Department Seminar on Tampa Bay Circulation
61. April 8-9, 1991, Panelist, Northwest Florida Water Management District, Technical Working Group on Apalachicola Bay. Apalachicola, FL.
62. April 23, 1991, LDGO, Columbia University, Palisades, NY., proposal development.
63. June 20-21, 1991, Tallahassee, FL.: Invited speaker at NFWFMD workshop on Apalachicola Bay.
64. October 8, 1991, New York, NY., Invited workshop participant on USACOE, New York district workshop on New York Bight.
65. March 4, 1992, (Tampa, FL.) and March 24, 1992 (Clearwater, FL.). Invited speaker, USF/CAS "Lunch with a genius" program, Oceanographic processes associated with the El Nino-Southern Oscillation (ENSO) phenomenon.
66. March 11-13, 1992 WES, Vicksburg, MS., Invited Panelist, USACOE.
67. March 30 - April 1, 1992, Honolulu, HI., Invited participant and speaker, NSF Tropical Instability Wave Experiment (TIWE) workshop

68. May 4-8, 1992, Co-Convener and speaker, TOGA Program Conference in Taipei, Taiwan, ROC.
69. July 14-16, 1992, Stonybrook, NY., Invited Panelist, USACOE.
70. September 22, 1992, Oceanographic Center, NOVA University, Dania, FL., Committee member, Ph.D. Thesis Defense, Z. Yu.
71. November 9-11, 1992, Honolulu, HI., Invited implementation panel member, TOGA TAO array workshop.
72. December 2, 1992, St. Petersburg, FL., Invited seminar speaker at Eckerd College.
73. December 9-10, 1992, St. Petersburg, FL., Invited Panelist, USACOE.
74. January 22, 1993, Mote Marine Lab, Sarasota, FL., Attendee, EPA Gulf of Mexico Program Meeting.
75. January 27-29, 1993, Miami, FL., Invited participant, NOAA EPOCS Annual Review.
76. March 1-3, 1993, Honolulu, HI., Invited participant and presenter, National Academy of Sciences sponsored Global Ocean Atmosphere Land System Workshop.
77. March 30-31, 1993, Stennis Space Center, MI., Invited Florida Delegation Leader to Southeast Space Grant Consortium Meeting.
78. May 11, 1993, AMOL/RSMAS, Miami, FL., Invited seminar speaker.
79. June 29-30, 1993, Havana, FL., Invited participant, NFWFMD Technical Working Group Meeting.
80. July 8, 1993, Ithaca, NY., Invited speaker at Cornell University.
81. July 14-16, 1993, Seattle WA., Invited speaker, JGOFS Workshop.
82. July 19-20, 1993, Woods Hole MA., Invited Panelist, USACOE.
83. July 26-28, 1993, Washington, D.C., Invited NSF Panelist.
84. September 3, 1993, St. Petersburg, FL: Seminar presented at the Marine Science Department - USF.
85. November 18-19, 1993, Havana, FL., Invited participant, NFWFMD Technical Working Group Meeting.

86. January 11-14, 1994, Miami, FL., Invited participant at NOAA/EPOCS Meeting.
87. April 5-7, 1994, Tallahassee, FL., MMS workshop on northwest Florida shelf.
88. April 21-22, 1994, Miami, FL., Invited speaker at Florida Coastal Science Symposium, RSMAS.
89. May 11-13, 1994, Princeton, NJ., Invited speaker at WOCE (NSF)/ACCP (NOAA) workshop on Atlantic Climate Variability.
90. July 19-22, 1994, Honolulu, HI., Invited speaker at The Oceanography Society Meeting.
91. August 22-25, 1994, Seattle, WA., Invited speaker at NOAA-OGP PACS Workshop.
92. September 23, 1994, Stony Brook, NY, Invited panelist, USACOE.
93. October 25-26, 1994, Project leader (non-participant), R/V SUNCOASTER, West Florida Shelf Deployment.
94. November 14, 1994, Havana, FL., Invited participant, NFWFMD Technical Working Group Meeting.
95. December 5-9, 1994, San Francisco, CA., Session Convener/Chair, Fall Annual Meeting of the American Geophysical Union.
96. January 30, 1995, Tallahassee, FL., Evolution of the three-dimensional circulation about the equator in the central equatorial Pacific. Seminar presented at the Florida State University.
97. February 8-10, 1995, Miami, FL., Invited participant, PACS implementation panel workshop.
98. April 2-7, 1995, Melbourne, Australia, TOGA 95 Conference.
99. April 24, 1995, St. Petersburg, FL., USGS WFS workshop, participant and presenter of 4 talks on in-situ measurements, satellite remote sensing and numerical modeling of the west Florida continental shelf circulation.
100. May 8-10, 1995, Baltimore, MD., Invited participant COE HBRAG.
101. May 23-24, 1995, Boulder, CO., Invited participant, PACS implementation panel workshop.

102. July 20-21, 1995, Seattle, WA., Invited participant, PACS implementation panel workshop.
103. August 14-15, 1995, Tuckerton, NJ., Invited participant COE HBAG.
104. October 13, 1995, Miami, FL., Invited seminar at AOML/RSMAS on “Slow interannual variability in the equatorial west-central pacific in relation to ENSO.”
105. October 14, 1995, St. Petersburg, FL., Lectures at SPHS, IB Program.
106. December 7-8, 1995, Stony Brook, NY., Invited participant COE HBAG.
107. April 10, 1996, Vero Beach, FL., Invited seminar Harbor Branch Oceanographic Institute on “in-situ measurements and modeling of West Florida continental shelf circulation.”
108. June 7, 1996, St. Petersburg, FL., USGS WFS workshop, participant and presenter of 4 talks on in-situ measurements, satellite remote sensing and numerical modeling of the west Florida continental shelf circulation.
109. July 9, 1996, St. Petersburg, FL., Taped interview for WUSF Science Adventures series.
110. July 22, 1996, St. Petersburg, FL., Invited seminar at FMRI on “West Florida continental shelf circulation.”
111. August 8, 1996, Miami, FL., Invited seminar at AOML/RSMAS on “A new mechanism for ENSO.”
112. August 27-29, 1996, France, Invited presenter and contributor at PIRATA workshop at centre ORSTOM.
113. September 11, 1996, St. Petersburg, FL., DMS seminar in the El Nino-Southern Oscillation.
114. September 18, 1996, Seattle, WA., Presentation on upper ocean variability in the western equatorial Pacific during a principal investigators meeting for TOGA/COARE.
115. October 5, 1996, St. Petersburg, FL., Appeared in a WUSF Science Adventures television presentation.
116. October 25, 1996, Tallahassee, FL., Two seminars presented at the Department of Oceanography, FSU.

117. November 6-7, 1996, St. Petersburg, FL., Invited participant, FMRI redtide workshop.
118. November 18-20, 1996, Miami, FL., Invited panelist, NOAA/COP Technical Advisory Panel Meeting and Workshop.
119. December 5-6, 1996, Vicksburg, MS., Invited panelist, COE near field modeling.
120. January 6-7, 1997, Tallahassee, FL., Three presentation at MMS quality review board meeting on west Florida continental shelf modeling.
121. May 1-2, 1997, St. Petersburg, FL., USGS West Florida Coastal Workshop, four oral presentations and two posters.
122. May 7-8, 1997, Steinhatchee, FL., Florida Bend Coastal Research Workshop, Participant and speaker: Some observational and modeling perspectives on the circulation of the Florida Big Bend.
123. August 7, 1997, Fairbanks, AK. On the role the western Pacific in the El Nino-Southern Oscillation. Seminar presented at University of Alaska, Fairbanks, AK.
124. August 8, 1997, Fairbanks, AK. Observations and modeling studies of the West Florida continental shelf circulation. Seminar presented at University of Alaska, Fairbanks, AK.
125. August 29, 1997, St. Petersburg, FL., Storm-induced sea level variations on the West Florida Shelf. Tutorial presented for the National Weather Service and Florida emergency planners.
126. October 16-27, 1997, Shanghai, Qingdao, and Beijing China. 14 lectures presented at 6 institutions on topics concerning the El Nino-Southern Oscillation, the Equatorial Undercurrent in the central pacific, and the West Florida continental shelf circulation.
127. January 12-14, 1998, Tallahassee, FL., Three presentations at MMS Quality Review Board Meeting on the West Florida continental shelf modeling project.
128. February 5, 1998, St. Petersburg, FL., Physical factors affecting West Florida sea level and circulation. Presentation at the National Conference on Beach Preservation Technology.
129. February 7-8, 1998, San Diego, CA. Meso-scale features of the continental shelf circulation. Presentation at the ONR HYCODE workshop.

130. February 26-27, 1998, Miami FL. Poster presentation (R. Weisberg, C. Wang, J. Virmani, and D. Mayer) at the NOAA/AOML silver anniversary.
131. April 14, 1998, St. Petersburg, FL. Guest lecture on Tropical Instability Waves.
132. May 16, 1998, St. Petersburg, FL. Public lecture on El Nino, FDEP Marine Marine Quest.
133. June 18, 1998, St. Petersburg, FL. El Nino-Southern Oscillation, seminar (C. Wang and R.H. Weisberg) at the USGS Center for Coastal Geology.
134. July 7-14, 1998, Boulder, CO. Large scale variability during COARE. Paper with published abstract at the NSF-sponsored COARE98 conference by R.H. Weisberg et al.
135. July 7-14, 1998, Boulder, CO. Western pacific interannual variability associated with ENSO. Paper with published abstract at the NSF-sponsored COARE98 conference by C. Wang et al.
136. July 7-14, 1998, Boulder, CO. Upwelling in the western Pacific warm pool. Paper with published abstract at the NSF-sponsored COARE98 conference by R. Helber et al.
137. July 7-14, 1998, Boulder, CO. Wave kinematics in the western Pacific warm pool. Poster with published abstract at the NSF-sponsored COARE98 conference by R. Helber et al.
138. July 7-14, 1998, Boulder CO. Energy balances in the upper western equatorial Pacific ocean during a westerly wind burst. Paper with published abstract at NSF-SPONSORED COARE98 conference by H. Wijesekera et al.
139. July 7-14, 1998, Boulder, CO. Observations of low latitude near inertial internal gravity waves forced by westerly wind bursts. Paper with published abstract at the NSF-sponsored COARE98 conference by C. Eriksen et al.
140. July 14-16, 1998, San Diego, CA. Observations and models of the West Florida Shelf circulation, workshop report presented by H. Yang et al.
141. August 27-28, 1998, St. Petersburg, FL. ECOHAB P.I. meeting presenter.
142. October 6-8, 1998, Tuscon, AZ. PACS/EPIC P.I. meeting. (Presentation by J. Virmani).
143. October 21, 1998, Tampa FL. Invited presentation to the USF Leadership Council on WFS research.

144. October 26-29, 1998, Miami FL. Annual NOAA Climate Analysis Workshop, 2 presentations given (with C. Wang).
145. November 24, 1998, Dania FL. ONR site visit participant. Presentation with M. Luther.
146. November 30, 1998, St. Petersburg, FL. ONR (HyCODE) site visit. Presentation on WFS research.
147. January 12-13, 1999, St. Pete Beach, FL. Three presentations at MMS Quality Review Board meeting on the West Florida continental shelf modeling project.
148. January 18-21, 1999, Baltimore MD. Physical Oceanography studies on the west Florida continental shelf. Presentation at the ONR HyCODE P.I. meeting.
149. February 24-26, 1999, Dania Beach, FL. Physical Oceanography studies on the west Florida continental shelf. Presentation at an NSF sponsored SFOMC workshop.
150. April 28, 1999, St. Petersburg FL. Presentation at an ECOHAB P.I. meeting.
151. May 4-7/99, Miami, FL. Working Group Leader, NOAA Tropical Atlantic Observing system Workshop
152. May 25, 1999, Dania Beach, FL. SFOMC Board of Directors meeting.
153. June 20-25 1999, New London, New Hampshire, Invited presenter, Gordon Res. Conference on Coastal Ocean Modeling.
154. July 12, 1999, Cambridge MD, PhD defense for Ms. Z. Li
155. August 13, 1999, St. Petersburg, FL. ECOHAB P.I. meeting presenter.
156. August 27, 1999, St. Petersburg, FL. DMS seminar: Inner shelf circulation studies on Florida's west coast.
157. September 8, 1999, St. Petersburg, FL. Invited presenter at NWS meeting on coastal ocean monitoring
158. October 19-21, 1999. Mobile AL. Workshop attendee and presenter at the MMS workshop on the Northeast Gulf of Mexico.
159. November 16, 1999. Tampa FL. Invited lecturer on El Nino, Geography Dept.
160. November 18, 1999. St. Petersburg, FL. Invited presenter at the FMRI bait fish

conference.

161. November 29-December 1, 1999. New Brunswick, NJ. Invited participant and speaker at the ONR HyCODE workshop.
162. December 2, 1999. New Orleans, LA. Invited speaker at the MMS annual Information Transfer Meeting.
163. February 17, 2000. St. Petersburg, FL. HyCODE/FSLE meeting presenter.
164. May 8, 2000. Miami, FL. Invited seminar, NOAA/AOML. West Florida shelf response to local wind forcing: April 1998.
165. September 5, 2000. Ruskin FL. Hurricane storm surge presentation at the NWS.
166. September 13, 2000. St. Petersburg, FL. HyCODE/FSLE meeting presenter.
167. September 22, 2000. Narragansett R.I. Invited seminar at URI for the J.A. Knauss 75th birthday symposium. An observers view of the equatorial current system.
168. October 17, 2000. St. Petersburg, FL. Participation (poster) at Project Access meeting
169. October 27, 2000. Palisades N.Y. Participant and speaker at NAME conference held at the LDEO, Columbia Univ. IRI.
170. November 15, 2000. St. Petersburg, FL. Taught classes at John Hopkins Middle School.
171. November 27, 2000. Gulf Breeze, FL. Invited participant at the EPA/NOAA HABSOS meeting.
172. December 5, 2000. Woods Hole MA. Invited speaker at the HAB symposium.
173. January 8-11, 2001 St. Pete Beach FL. presentation at ONR HyCODE P.I. meeting
174. March 15-16, 2001 Miami, FL. Invited presentation at RSMAS/AOML.
175. March 28-30, 2001 Dania, FL Invited participant, CECOOS workshop.
176. May 21-24, 2001 Washington D.C. WCRP/SCOR Workshop, presentation by J. Virmani.
177. July, 2001 Miami, FL, RSMAS, SE-COOS meeting, presentation by R. He.

178. July 7-8, 2001 Corpus Christi TX., Invited presentation at TAMU-CC.
179. August 9-10, 2001 St. Petersburg, FL., Invited presentation at SURA SCOOP mtg.
180. August 24, 2001 St. Petersburg FL., presentation at ECOHAB P.I. meeting.
181. November 1-2, 2001 Newport News, VA., Invited presentation at SURA-SCOOP mtg.
182. November 14, 2001 St. Petersburg FL., Great American teach-in (J. Hopkins middle school).
183. November 15, 2001 St. Petersburg FL., Seminar at USGS.
184. November 26, 2001 Sarasota, FL. Seminar at MOTE Marine Lab.
185. January 6-9, 2002 Santa Barbara, CA., HyCODE P.I. mtg., presentation on WFS.
186. January 17, 2002 St. Petersburg, FL. ECOHAB P.I. mtg. presentation on WFS.
187. February 14, 2002 St. Petersburg, FL. SWFWMD mtg. presentation on WFS and the Charlotte Harbor estuary.
188. February 21, 2002 Dania, FL. Presentation to the Ocean Commission on coastal ocean monitoring.
189. February 28, 2002 Atlanta, GA. SEA-COOS P.I. mtg.
190. April 2-3, 2002 Panama City, FL. ONR P.I. mtg., presentation on BSOP project.
191. April 29-30, 2002 Nashville, TN., SURA mtg., 2 presentations to SURA coastal committee
192. May 3, 2002 St. Petersburg, FL. presentation to NOAA visitors.
193. May 29, 2002 St. Petersburg, FL. presentation at ECOHAB P.I. meeting
194. August 5, 2002 Dartmouth, MA. Seminar at S Mast, UMass, Dartmouth
195. September 18, 2002 St. Petersburg, FL. Presentation at USGS Tampa Bay modeling meeting.
196. September 30-October 2, 2002 Chapel Hill N.C., 3 presentations at SEA-COOS P.I. meeting.

197. October 9, 2002 Sarasota FL, invited talk at Mote Marine Lab on Charlotte Harbor estuary
198. October 11, 2002 Stony Brook, N.Y., invited seminar at Mar. Sci. Res. Cen., SUNY, Stony Brook.
199. November 6-9, 2002 Barbados W.I., invited talk at IASI-IOCARIBE-RODAE workshop.
200. November 20, 2002 St. Petersburg, FL., oceanography talks at J. Hopkins Middle School.
201. January 16-17, 2003 Miami, FL, presentation at HYCODE P.I. mtg.
202. March 14, 2003 Atlanta GA., SEA-COOS P.I. mtg.
203. March 31, 2003 Washington D.C., OCEAN.US summit participant.
204. April 10, 2003 St. Petersburg, FL. guest lecture on estuarine circulation.
205. May 27-29, 2003 Jacksonville, FL. SEA-COOS P.I. mtg.
206. 6/22-6/27/03 New London, NH, Gordon Res. Confr. on Coastal Ocean Modeling, 4 posters presented.
207. 8/19-8/21/03 Washington D.C., HYCOM mtg., presentation on WFS modeling.
208. 10/1/03, Chapel Hill NC, SEACOOS EXCOMM meeting.
209. 10/7/03, Sarasota FL, invited talk at Mote Marine Lab on Charlotte Harbor estuary
210. 10/23-10/24/03, Stennis Space Center, MS, invited seminar at USM.
211. 10/31/03, Clearwater FL, Hurricane storm surge presentation to Pinellas Co.
212. 11/3-11/5/03, Savannah GA, SEACOOS workshop, 2 presentations and moderator.
213. 11/11-11/13/03, Washington D.C., NCEP ocean model review comm.
214. 11/14/03, Chapel Hill, NC, SEACOOS EXCOMM mtg.
215. 11/19/03, St. Petersburg FL, Great American Teach-in at J. Hopkins Middle School.
216. 1/19/04, Atlanta GA., SEACOOS EXCOMM mtg.

- 217. 1/20/04, Ruskin, FL, poster presentation at USGS Tampa Bay conference.
- 218. 3/8-10/04, St. Petersburg, FL, presentation at MTS Buoy wrkshp: A Coastal Ocean Observing System for the WFS - COMPS/SEACOOS.
- 219. 3/10/04, Wash. DC, SEACOOS House/Senate briefings.
- 220. 3/11/04, Chapel Hill, NC, SEACOOS BoD mtg.
- 221. 3/15-16/04, St. Petersburg, FL, ACT radar mtg.
- 222. 4/12-15/04, St. Petersburg, FL, EPA-GCOOS HAB mtg.
- 223. 5/10-12/04, St Petersburg, FL, presentation at ONR site visit.
- 224. 5/13/04, Ft. Myers, FL, presentation on the CH estuary at SFWMD mtg. at ECC.
- 225. 5/16-19/04, Miami. FL, SEACOOS sp wrkshp, 3 oral presentations and 4 posters.
- 226. 5/21-24/04, Margarita Venezuela, presentation at CARIACO PI mtg.
- 227. 5/26/04, Venice, FL, presentation to Coast Guard aux.
- 228. 6/7/04, St. Petersburg, FL, presentation to Pinellas Co. teachers.
- 229. 6/14-16/04, New Bedford, MA, presentation at FVCOM wrkshp at UMASSD.
- 230. 7/10/04, St. Petersburg, FL, guest sermon at Congr. B'nai Israel.
- 231. 8/4/04, Atlanta, GA, SEACOOS PI mtg.
- 232. 8/16-17/04, Atlanta, GA, SEACOOS EXCOMM mtg.
- 233. 8/18/04, Miami, FL, seminar at AOML (by R. Helber).
- 234. 8/24/04, St. Petersburg, FL, presentation to MOSI exhibitors.
- 235. 8/26/04, St. Petersburg, FL, seminar on hurricane storm surge.
- 236. 9/27/04, St. Petersburg, FL, guest lecture in Intro P.O. course.
- 237. 9/29/04, Atlanta GA, SEACOOS MWG mtg.
- 238. 10/5/04, Sarasota, FL, H. Charley simulation at MML (by L. Zheng).

239. 10/11/04, Liege, BE., juror, PhD defense for A. Barth.
240. 10/13/04, Liege, BE., juror, PhD defense for A. Alvera-Azcarate.
241. 10/27/04, Miami, FL, presentation at HYCOM meeting.
242. 11/10&11/04, Charleston, SC, presentation at SEACOOS fall workshop.
243. 11/16&17/04, Charleston SC, participation at NOAA COTS workshop.
244. 12/20/04, Naples, FL, SFWMD presentation of estuary/shelf interaction (by L.Zheng).
245. 1/17-19/05, St. Petersburg, FL, SEACOOS External Review, OWG summary presentation as chairman.
246. 2/11/05, Washington DC, SEACOOS presentation to legislative aides.
247. 2/16/05, Office, – teleconference re: NOPP panel.
248. 3/2-3/05, Miami, FL, SEACOOS BoD mtg., OWG Chair presentation.
249. 3/11-13/05, Steinhatchee, FL, CMS faculty retreat.
250. 3/?/05, San Diego, CA, “Wireless Waves” presented by R. Cole at RD-Instruments, ADCPs in Action.
251. 4/5/05, Ruskin, FL, Hurricane Charley simulation seminar at local AMS mtg.
252. 4/9/05, St. Petersburg, FL, Public lecture on Hurricane Charley simulation at the FWRI Ocean Day.
253. 4/11/05, St. Petersburg, FL, presentation to COE scientists on WFS.
254. 4/28/05, St. Petersburg, FL, presentation on WFS/GOM currents at the SPYC.
255. 6/2/05, St. Petersburg, FL, seminar on Tampa Bay circulation.
256. 6/3/05, St. Petersburg, FL, seminar on hurricane storm surge.
257. 6/7/05, Orlando, FL, presentation to FL COOS Caucus.
258. 6/16/05, Naples, FL, Rookery Bay discussions/Tampa Bay presentation.
259. July/August, St. Petersburg, FL, several TV interviews on hurricane storm surge.
260. 7/25-28/05, Jacksonville, FL, 4 presentations at SEACOOS/SECOORA workshop.

- 261. 8/23, St. Petersburg, FL, participant GofM Alliance mtg.
- 262. 10/14, St. Petersburg, FL, presentation at FWRI meeting.
- 263. 10/17-20, Norfolk VA, ERF Conference participant on several town hall meetings.
- 264. 11/2-4, Houston TX, GCOOS Industry workshop.
- 265. 11/8, Washington DC, SURA Coastal Ocean Committee.
- 266. 11/15-18, Columbia SC, SEACOOS fall workshop.
- 267. 12/2, St. Petersburg, FL, Patel Center meeting.
- 268. 1/5, St. Petersburg, FL, FWRI meeting.
- 269. 1/17-19, New Orleans, NAS-NRC Committee on NO RHPP
- 270. 2/14-16, Jacksonville, FL, NOAA coastal inundation workshop.
- 271. 2/20-24, Honolulu HI, several P.I. meetings at AGU/ASLO OS
- 272. 3/7, St. Petersburg, FL, MERHAB P.I. meeting.
- 273. 3/19-21, New Orleans, NAS-NRC Committee on NO HPS
- 274. 3/23, Naples, FL, Rookery Bay model presentation at RBNERR (L. Zheng).
- 276. 4/3, Tampa, invited speaker by Congr. Davis, Town Hall mtg.
- 277. 4/3, Sarasota, FL, FL COOS Caucus mtg
- 278. 4/5, St. Petersburg, FL, invited speaker TBNEP, Tampa Bay circulation.
- 279. 4/27, St. Petersburg, FL, invited speaker SPYC.
- 280. 5/8-9, Washington DC, invited participant CORE/JOI/SURA.
- 281. 5/9, Tampa, FL, invited speaker, Hurricane storm surge potential at Tampa Bay Insurance management chapter mtg. (L. Zheng)
- 282. 5/17, Tampa, FL, Storm surge presentation at RIMS (by L.Zheng).
- 283. 5/15-17, New Orleans, NAS-NRC Committee on NO RHPP

284. 5/?, Margarita Is., Venezuela, CARICO progress report (by R. Cole).
285. 6/6, Tampa, FL, Invited speaker, local AMS Chapter annual banquet.
286. 6/16, Tampa, FL, Invited public forum panelist at “An inconvenient truth.”
287. 6/?, New Bedford, MA, Applications of FVCOM to the west Florida continental shelf and its estuaries, 2nd FVCOM workshop at UMass-Dartmouth (L. Zheng)
288. 7/11, Woods Hole, MA., Invited seminar at WHOI
289. 7/12, Woods Hole, MA., Invited seminar at WHOI
290. 7/17, Sarasota, FL., Invited lecture at NOAA/Mote/FWRI red tide workshop, plus two posters presented.
291. 7/27-28, New Orleans, LA., NRC Comm. on N.O. Hurricane Protection System.
292. 9/11-14, Jacksonville, FL, SEACOOS/SECOORA workshops.
293. 9/25, Clearwater, FL., PC Property Appraiser’s Office, hurricane storm surge
294. 10/28, St Petersburg, FL., TB Estuary Academy (presented by L. Zheng).
295. 11/?, St. Johns River Water Management District, estuary modeling (L.Zheng).
296. 12/29/06, Xiamen China, Hurricane storm surge simulation for Tampa Bay, Third Institute of Oceanography, SOA (L. Zheng).
297. 1/22-23/07, Washington, DC, NRC Comm. on N.O. Hurricane Protection System.
298. 2/6, Gainesville, FL, FLCOOS mtg. participant
299. 2/28, Herndon, VA, MMS mtg., participant
300. 4/23-26, Stennis MS, NOPP GODAE mtg., 2 presentations
301. 4/27, St Petersburg, FL, Tampa Bay workshop co-convenor
302. 5/7, Clearwater, FL, property appraiser mtg. re: storm surge presentation
303. 6/1, Bradenton, FL, Manatee Co. hurricane conference keynote speaker

- 304. 6/17-21, Gordon Research Conference, Colby College, New Hampshire, 3 posters
- 305. 6/26-28, New Orleans, LA, MMS GOM workshop, exec comm./session leader
- 306. 7/8-11, Chapel Hill NC, SEACOOS EXCOM mtg.
- 307. 7/12, St. Petersburg, FL, TPRPC hurricane storm surge presentation.
- 308. 8/28, Washington, DC, SURA Coastal Committee
- 309. 10/9, New Orleans, LA, NRC Comm. on N. O. Hurricane Protection System.
- 310. 10/22-24, St. Pete Beach, FL, SEACOOS/SECOORA workshops.
- 311. 10/31, Naples, FL., Rookery Bay presentation to SFWMD
- 312. 11/15, Tampa, FL., SWFWMD presentation on TB modeling
- 313. 12/3-4/07, New Orleans, LA, NRC Comm. on N.O. Hurricane Protection System.
- 314. 1/23/08, Sarasota, FL. Invited presentation at “Islands in the Stream” Conference.
- 315. 1/28, Gainesville, FL., presenter at Hurricane Storm surge inundation P.I. meeting.
- 316. 4/10, Raleigh NC, Invited seminar at NCSU
- 317. 4/30, Tampa, FL., Invited DUP lecture.
- 318. 6/5, Washington, DC, Award recipient, NOPP Excellence in Partnering.
- 319. 6/23-24, Gainesville, FL., Invited presentation at P.I. workshop on storm surge
- 320. 7/22-24, Arlington VA., Invited talk at MAST mtg.
- 321. 9/3-5, Washington D.C., NRC/NAE meeting on NOHPS
- 322. 10/31/08, Stonybrook N.Y., Invited seminar at SUNY, Stonybrook
- 323. 1/20/09, Tampa, FL. Coastal Ocean Circulation Modeling with Applications to Red tide and Storm Surge, USF Symposium on High Performance Computing.
- 324. 2/11, St. Pete Be., FL. Presentation of USF-NOAA-FEMA storm surge workshop.
- 325. 5/13, Jacksonville, FL. Presentations at the SECOORA spring mtg.

- 326. 5/21, Norfolk VA. Why red tide was mild on the WFS in 2008. NOAA ECOHAB mtg. (presented by Y. Liu).
- 327. 5/29, St. Petersburg, FL. Presentation to FWC fisheries workshop on COMPS observations/models
- 328. 6/16, St. Pete Be., FL. Keynote address at SPB Hurricane awareness workshop.
- 329. 7/13, Stennis, MS. Team leader for NRL, Battlespace Environments site review.
- 330. 8/17, Raleigh NC. WFS mean circulation observed by long-term moorings. MABPOM-SECOM conference (presented by Y. Liu)
- 331. 9/10, St. Petersburg, FL. Eastern Gulf of Mexico circulation. Invited presentation Agency on Bay Management oil drilling public symposium.
- 332. 9/18, Frascati, Italy. Validation of X-TRACK coastal altimetry on the West Florida Shelf by LY. Liu, R.H. Weisberg, S. Vignudelli, L. Roblou. Presentation at “The 3rd Coastal Altimetry Workshop,” Frascati, Italy (presented by S. Vignudelli).
- 333. 9/14, Raleigh, NC. SECOORA Board mtg.
- 334. 10/5, St. Petersburg, FL. Presentation to Century Committee, RE: oil drilling.
- 335. 10/15, St. Petersburg, FL. Presentation to CARA-GCOOS ecological modeling workshop.
- 336. 10/12, St. Petersburg, FL. Presentation to TBRPC, RE: oil drilling.
- 337. 10/20, Tampa, FL. USF Unstoppable Campaign (six different topical PPTs provided for display).
- 338. 12/2, St. Petersburg, FL. Presentation to USACE, RE: Tampa Bay.
- 339. 1/20/10, Tampa, FL. Coastal Ocean Circulation Modeling with Applications to Red tide and Storm Surge, USF Symposium on High Performance Computing.
- 340. 1/25&6, Baltimore, MD. Invited presentation at interagency Water Quality Workshop
- 341. 2/4, St. Petersburg, FL. Invited presentation, FDEP Estuarine Nutrient criteria workshop
- 342. 2/11, Tampa, FL. Invited panelist for USF School of Sustainability event.

343. 5/7, St. Petersburg, FL. Invited briefing of Sen. Nelson on oil spill.
344. 5/12,13, Savanna GA. Liu, Y., R.H. Weisberg, L. Zheng, and C. Hu. Tracking Gulf of Mexico Oil Spill with Numerical Models and Satellite Imagery. Southeast Coastal Ocean Observing Regional Association (SECOORA) 2010 Annual Board & Membership Meeting.
345. 5/20, St. Petersburg, FL. Zheng, L, Y. Liu and R.H. Weisberg. WFS circulation relative to the red-tide bloom evolution for 2001. ECOHAB PI meeting.
346. 5/26, Washington, DC. Invited (by Chancellor Brogan) briefing of the Florida delegation on the oil spill.
347. 5/26, St. Petersburg, FL. Zheng, LY. and R.H. Weisberg. Invited presentation. What may have happened here had Hurricane Ivan visited us instead of Pensacola? Presented at Greater Tampa Bay ACP meeting. (presented by Zheng)
348. 5/27, Tallahassee, FL. Fourth Annual SouthEast Coastal Oceanography and Meteorology (SECOM) Conference. Presentation on wave modeling by Y. Huang.
349. 6/2, Shanghai, China. Zheng, LY. and R.H. Weisberg. Tampa Bay circulation driven by rivers, tides and winds, and its connection with the Gulf of Mexico: How the bay flushes? Invited presentation at East China Normal University.
350. 6/7, Xiamen, China. Zheng, LY. and R.H. Weisberg. Automated Deepwater Horizon oil spill trajectory prediction. Invited presentation, Third Institute of Oceanography, State Oceanic Administration, Xiamen, China.
351. 6/9, Plant City, FL. Liu, Y., R.H. Weisberg, Lianyuan Zheng, and Chuanmin Hu: Gulf Oil Spill Ramifications, *Contact Breakfast* hosted by the Greater Plant City Chamber of Commerce and sponsored by Tampa Electric, (*invited speaker*).
352. 6/11, St. Petersburg, FL. Invited briefing of Sen. Nelson on oil spill.
353. 6/15, Washington, DC. Testify before House Committee on Natural Resources, Subcommittee on Insular Affairs the Oceans and Wildlife; followed by a briefing of the Florida delegation invited by Congresswoman Castor.
354. 6/17, St. Petersburg, FL. Invited briefing of City Council on oil spill.
355. 6/18, St. Petersburg, FL. Liu, Y., R.H. Weisberg, Chuanmin Hu, and Lianyuan Zheng. Tracking/predicting the oil spill trajectory in the Gulf of Mexico using numerical models and satellite imagery. USF/CMS Postdoctoral Fellow and Research Staff Summer Colloquium.

356. 6/23&4 Washington, DC. Invited presenter at SURA model test-bed workshop.
357. 7/14, Seminole, FL. Invited speaker, St. Petersburg College Inst. For Public Policy.
Impact of the oil crisis in the Gulf on Tampa Bay
358. 8/2, Tampa, FL. Invited briefing of Sen. Nelson on oil spill.
359. 8/16, St. Petersburg, FL. Invited briefing of Florida Century Committee on oil spill.
360. 8/19, Homosassa Springs, FL. Invited presentation on Deepwater Horizon oil spill
given to Withlacoochee Area Residents, Inc.
361. 8/26, Tampa, FL. Invited presentation on Deepwater Horizon oil spill given to
Florida Bar Association.
362. 9/16, Orlando, FL. A coordinated modeling approach in support of oil spill
tracking. Weisberg, R.H., L.Y. Zheng, V.H. Kourafalou, E.P. Chassignet.
Presented by L.Y. Zheng at FIO PI Coordination Workshop.
363. 10/5, St. Pete Be, FL. Invited participant, JSOST oil spill workshop.
364. 10/6, Tampa, FL. Where did the oil go and why? Invited presentation (by USACE-
Jacksonville Office) at the Western Dredging Assoc. Mtg.
365. 10/11, Tampa, FL. Modeling the location of the Gulf oil spill. USF Research I
invited presentation.
366. 10/16, San Antonio, TX. The Gulf Oil spill. Weisberg, R.H., Y. Liu, L.Y. Zheng
and C. Hu. Keynote address at CSDMS meeting. Presented by Y. Liu.
367. 11/3, Palm Be. Gardens, FL. Invited presentation, FAU Conference on: Sustainable
Ocean Energy and the Marine Environment.
368. 11/16, St. Petersburg, FL. Invited presentation at Sierra Club et al. sponsored public
forum on the Gulf of Mexico oil spill.
369. 11/19, Tampa, FL. Invited seminar on renewable energy for Florida, USF
Geography Dept.
370. 11/22, Tampa, FL. Invited presentation at Congresswoman Castor press
conference.

2011

371. 1/21, St Petersburg, FL. Invited presentation on Deepwater Horizon oil spill

given to Town and Gown.

- 372. 1/21, St Petersburg, FL. Invited seminar on Alternative power generation for Florida given to USFSP Environmental Policy and Geography.
- 373. 3/7&8, Chapel Hill, NC. Inundation Model Testbed workshop, presentation on USF Progress.
- 374. 3/16, St Petersburg, FL. Invited seminar at Eckerd College on Alternative power generation for Florida
- 375. 4/7, St Petersburg, FL. Invited seminar at USF College of Engineering on Alternative power generation for Florida.
- 376. 4/8, St Petersburg, FL. Invited seminar at USF FIO workshop on oil spill restoration
- 377. 4/10, Tampa, FL. Invited seminar at Phi Kappa Phi honor society induction.
- 378. 4/13, Sarasota, FL. Invited seminar at MTS Techsurge workshop on ocean pollution.
- 379. 4/15, St Petersburg, FL. Invited speaker at CMS Eminent Scholar Lecture Series.
- 380. 5/16-18, Jacksonville, FL. Presentations at the SECOORA annual meeting.
- 381. 5/18-19, Norfolk VA. Presentation (by L. Zheng) at ECOHAB meeting.
- 382. 5/25-26, Orlando, FL Presentation at FIO BP PI meeting
- 383. 6/22-23, Washington DC., Presentation at SURA IOS Model Testbed Mtg.
- 384. 9/7-8, Savannah GA. Presentation at SECORA mtg.
- 385. 10/14, Shanghai, PRC. Invited lecture at East China Normal University.
- 386. 10/17, Beijing, PRC. Invited lecture at SOA Forecast Center.
- 387. 10/21, Xiamen, PRC, Invited lecture at Third Institute for Oceanography.
- 388. 10/24, Xiamen, PRC, Invited lecture at Third Institute for Oceanography.
- 389. 11/1-2, Tallahassee, FL, DEEP-C mtg.
- 390. 11/8-9, Washington DC., SURA mtg

391. 12/6-7, Washington DC, Mtgs/ Caster and Markee; Invited testimony before House Committee on Transportation.

2012

392. 1/12 St. Petersburg, FL, C-Image Meeting.

393. 3/37, Pensacola FL, HABIOS mtg.

394. 4/4, Tampa FL, Invited speaker at annual FWCAMS banquet.

395. 5/1, Usseppa Is., FL, Invited speaker Usseppa Library

396. 5/8, Miami, FL, SECOORA mtg.

397. 5/16. Yankeetown FL, invited speaker, Withlacoochee River Community Center.

398 8/21, 22, Tallahassee FL. Deep-C mtg.

399. 10/23, Miami FL, USCG mtg.

400. 11/13-15, Boulder CO., Invited speaker, ESPC mtg.

2013

401. 2/26-2/28, Tallahassee FL., Deep-C mtg.

402. 4/4-4/5, College Park, MD. SURA CERC mtg.

403. 4/19, Houston TX, GOMURC mtg.

404. 5/13-15, Jacksonville FL., SECOORA Board and PI mtg.

405. 6/25, Tampa, FL, GOMURC mtg.

406. 9/9-8/11, Tallahassee FL., Deep-C mtg.

407. 9/16, Pasco Co., FL., Restore Act presentation.

408. 10/24, FGCU, invited seminar.

409. 11/4-11/6, Baltimore MD., GODAE Workshop

2014

410. 4/2, St. Petersburg, FL, FIO/USCG mtg presentation

411. 5/1, Pasco Co. FL, RESTORE Act presentation

412. 8/7, Boothbay Harbor Me., Invited seminar at Bigelow Lab

413. 8/19, Narragansett RI., Invited seminar at GSO-URI

414. 9/5, St. Petersburg, FL., faculty seminar.

2015

415. 3/36, Invited seminar speaker, Princeton University.

416. 4/15 SP Waterfront Committee, invited presentation.

417. 4/22 Useppa Is. Community Assn., invited presentation.

418. 5/14 San Jose Elementary School, Gifted (Oceanography) Program, invited presentation.

419. 10/26-10/28 Fisheries Workshop, invited participant, SPB.

420. 11/9 SP Waterfront Committee, invited presentation.

421. 12/2-12/4 SECOORA Board of Directors mtg., Charleston, SC

2016

422. 1/26, SECOORA PI seminar.

423. 2/1-2, Tampa FL., Invited presenter, GoMRI townhall meeting.

424. 4/21, Tierra Verde, FL, invited presenter, Shell Key Mtg, Tampa Bay Watch.

425. 5/18-20, Raleigh, NC, SECOORA Bd mtg and PI/membership mtg. presentations.

426. 5/25, Pinellas Co. TAC mtg on inlet study.

427. 7/26, Tierra Verde, FL, invited presenter, Shell Key Mtg, Tampa Bay Watch.

427. 9/9, Invited seminar at GSO-URI.

428. 10/13, Presentation at Pasco County RA meeting.

429. 10/18-20, Halifax, NS, Presentation at FVCOM Users Workshop.

430. 11/3-4, Washington, DC, SURF meeting.

431. 12/7-9, Charleston, SC, SECORA Bd Mtg.

2017

432. 1/5, Marco Is., FL, Invited speaker at Marco Island Shell Club.

433. 2/28, SECOORA Webinar presenter.

434. 3/22-3/24, Wash DC, NAS GRP mtg.

435. 4/17, Clearwater, FL, PC TAC mtg.

436. 4/18-4/20, NY, NY, Vetlesen award banquet invitee.

437. 5/16-5/17, Melbourne FL, SECOORA meeting.

438. 5/17-5/19, Wash DC, NAS GRP mtg.

439. 6/14, Tampa, FL, Radio Interview on storm surge, WMNF

440. 6/23, Tampa FL, Chaired PhD defense.

441. 7/1-8/2, Wash DC, NAS GRP mtg.

442. 10/25, St. Petersburg, FL, Invited talk on Hurricane Irma

443. 11/9, Jerusalem, Israel, From Climate to a Grouper Sandwich: Why we Study the Ocean Circulation, Invited lecture at Hebrew University.

444. 11/10, Haifa, Israel, From Climate to a Grouper Sandwich: Why we Study the Ocean Circulation, Invited Plenary Lecture at Israel Aquatic Science Conference.

445. 11/15, Eilat, Israel, Equatorial Ocean Dynamics: Observations and Analyses, Invited lecture at Joint University Marine Science Facility.

446. 11/17, Eilat, Israel, Coastal Ocean Dynamics: Observations and Analyses, Invited lecture at Joint University Marine Science Facility.

447. 11/20, Tel Aviv, Israel, On the Movement of Deepwater Horizon Oil to Northern Gulf Beaches, Invited talk at Tel Aviv University.

448. 11/21, Sde Bokor, Israel, Power Generation Potential for Florida by Mechanical and Solar Means, Invited talk at Ben Gurion University.

2018

449. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2018), A Tampa Bay circulation

nowcast/forecast system with application to Hurricane Irma. 2018 Graduate Student Symposium, USF-CMS, St. Petersburg. Jan 12, 2018 (oral presentation).

450. 2/13, Invited SECOORA Webinar

451. 4/4, Dania, FL., invited talk on Hurricane Irma effects on the south Florida reef track

452. 4/11, St. Petersburg, FL, invited presentation on red tide to A. Busch III.

453. 6/20, Invited NOAA NOS Webinar on red tide.

454. 6/27, Invited NOAA webinar on coastal ocean modeling

455. 6/28, New Port Richie, FL, Invited talk to the Calusa Boat Club (\$1000 honorarium donated to CMS).

456. 7/10, Palmetto, FL, Invited presentation to fisheries group, SeaGrant outreach.

457. 8/15, Tierra Verde, FL, Tampa Bay Watch presentation.

458. 10/30, St. Petersburg, FL, Invited ICAR confr. Presentation.

459. 11/16, Boca Grande, FL., Invited presentation on red tide to Barrier Is Parks Society.

460. Chen, J., R.H. Weisberg, Y. Liu, and L. Zheng (2018), Tampa Bay Coastal Ocean Model natural hazards modeling. The inaugural event of the Joint Institute for the Gulf of Mexico Studies. St. Petersburg, Oct 2018 (poster presentation).

2019

461. 1/15, Tallahassee, FL, How oil arrived on northern Gulf beaches, presentation at GoMRI workshop.

462. 1/20, St. Petersburg, FL, Public outreach lecture on sea level at Congr. B'nai Israel.

463. 3/28, Clearwater Be., FL, Invited presentation, Pinellas Co. Red Tide Summit.

464. 4/17, Tampa, FL, Invited keynote presentation at FWEA Utility Council Annual Mtg.

465. 5/28, Tierra Verde, FL, Invited presentation to Tierra Verde community Association

466. 6/12, Nokomos, FL, Invited presentation on red tide at Nokomos Community Center.

467. 6/17, Houston TX, Invited presentation at Industry meeting on the NASEM GRP.

- 468. 6/19, Wilmington NC, Presentation at annual SECOORA meeting
- 469. 8/20, St. Petersburg, FL, Invited presentation at FL SeaGrant HAB Symposium.
- 470. 9/17, St. Petersburg, FL, Invited presentation at Ocean Team Mtg.
- 471. 11/19, St. Petersburg, FL, Invited red tide presentation at Dali Museum Sci Café

2020

- 472. 1/30, Washington DC, NASEM UGOS mtg presentation.
- 473. 2/18, St. Petersburg, FL., Invited red-tide presentation at SPYC.
- 474. 3/25, Tampa, FL. Tampa Bay Water presentation.
- 475. 4/17, Home, Webinar to CHNEP.
- 476. 5/18-19., Home, SECOORA mtg and presentation.
- 477. 8/25, Home, SECOORA Webinar

ACTIVE GRANTS:

- 1) State of Florida: A real-time oceanographic data system for Florida, P.R. Betzer, A.C. Hine, M. Luther and R.H. Weisberg, P.I.'s, continuing award=300,000 for annually occurring E&G funds supporting 5.3 positions beginning 7/1/97. Positions now reduced to 3 and actual amounts are in question.
- 2) State of Florida: I-4 Corridor funding for the Coastal Ocean Modeling and Prediction System (COMPS), P.R. Betzer, M.E. Luther, and R.H. Weisberg, Co-P.I.s, continuing award=69,276.00 per year for an engineer position and 78,520.50 for expenses beginning 7/1/98. Expense money is no longer available.
- 3) SC SEAGRANT, federal pass through from NOAA, NA16NOS0120028, Maintaining moored observations and WFS modeling for SECOORA, R.H. Weisberg and Y. Liu, PIs, 1,010,380 for the period 6/1/16-5/31/21 (255,000 new for the present FY).
- 4) SC SEAGRANT, federal pass through from NOAA, NA16NOS0120028, Maintaining high-frequency radars for SECOORA, R.H. Weisberg and C. Merz, PIs, 474,520 for the period 6/1/16-5/31/21 (156,000 new for the present FY).

- 5) Pinellas Co., FL, A Very High Resolution Estuary Circulation Nowcast/Forecast Model for Tampa Bay and Vicinity, R.H. Weisberg, P.I., 479,492 for the period 8/1/16-7/31/19; NCE through 12/31/20.
- 8) NSF XSEDE Computer Resource Program. Contract #: OCE130015. Very high resolution, baroclinic, three-dimensional coastal ocean circulation modeling from XSEDE for computation resource, Y. Liu and R.H. Weisberg, co-PIs 741,042 SUs awarded (no monetary award).
- 9) NASEM, Understanding Gulf Ocean Systems Grants 1: Taking the Pulse of the West Florida Shelf at a Hypothesized Loop Current Control Point, R.H. Weisberg, Y. Liu and J. Kuehl (UDEL), co-PIs, 937,977 for the period 11/1/18-10/31/20 (457,496 new for the present FY). NCE through 12/31/21.
- 10) NASEM, Understanding Gulf Ocean Systems Grants 1: Dry Tortugas and Lower Keys High Frequency Radars, C. Merz, R.H. Weisberg and N. Shay (RSMAS), co-PIs, 1,371,027 for the period 11/1/18-10/31/20 (281,576 new for the present FY). NCE through 12/31/21.
- 11) TBERF, Applications of Tampa Bay Circulation Model for Ocean Acidification, R.H. Weisberg and Y. Liu co-PIs, 76,104 for the period 1/1/19-12/31/20. (The contract was delayed due to a USF matching commitment error, which I think is now remedied. Consequently, work has not commenced, and this award sits in limbo. It is more trouble than it is worth; not because of TBERF, but because of a USF Sponsored Programs misdirection).
- 12) NOAA Award # NA19NOS0220015, Irma equipment award, 134,037 for the period 4/1/19-3/31/21, R.H. Weisberg, PI.
- 13) City of Tampa, award # 2018-591, Tampa Augmentation Project – Hillsborough Bay Inflow modification Study, 31,820 for the period 6/25/19 to 6/24/20, R.H. Weisberg and Y. Liu PIs.
- 14) Mote Marine Lab GRT12392, Federal pass through from NOAA, ECOHAB19: Life and Death of *Karenia brevis* Blooms in the Eastern Gulf of Mexico, 9/1/19-8/31/24, 141,500 for FY1 (738,675 anticipated for the total five year duration).
- 15) FWC-FWRI, PO # B609CF, Enhanced Modeling Capabilities for Red Tide on the West Florida Shelf, 285,000 for the period 10/3/19-6/30/20, R.H. Weisberg, PI.
- 16) FWC-FWRI, PO # B66168, Modeling the 2019 Red Tide on the West Florida Shelf, 30,000 for the period 12/19/19-5/31/20, R.H. Weisberg, PI.

17) FWC-FWRI, FWC Agreement No. 20035. New interdisciplinary approaches to red tide tracking and forecasting on the West Florida Shelf, 130,103 for the period 9/14/20-6/30/21, sub award to R.H. Weisberg and Y. Liu, co-PIs (K. Buck, overall project PI).

PREVIOUS GRANTS:

NSF Grant #OCE74-01739 “Equatorial Currents and hydrographic observations during the GARP Atlantic Tropical Experiment (GATE).” Total Award = \$300,300 for the period 1/1/74 -11/30/76. Principal Investigators: J.A. Knauss, L. Miller, and R.H. Weisberg.

NSF Grant #OCE76-09786 “GATE Oceanographic Program Equatorial Current & Hydrographic Observations.” Total Award + \$282,000 for the period 04/01/76 - 03/31/79. Principal Investigator: R.H. Weisberg.

NSF Grant #ATM77-11297, GATE Oceanographic Program Equatorial Current Analyses.” Total Award = \$25,851 for the period 06/15/77 - 11/30/78. Principal Investigator: R.H. Weisberg (URI subcontract).

UNC Marine Sciences Council - “Time Dependent Hydrography of the Cape Fear River Estuary.” Total Award = \$4,000 for the period 07/01/77 - 06/30/78. Principal Investigators: R.H. Weisberg & L.J. Pietrafesa.

NOAA Sea Grant, “Physical Studies of Pamlico Sound N.C.” Total Award = \$166,433 for the period 01/01/78 - 12/31/80. Principal Investigators: R.H. Weisberg, G.S. Janowitz and L.J. Pietrafesa.

NSF Grant #OCE-7820396, “Time Dependent Motions in the Equatorial Atlantic. Total Award = \$129, 639 for the period 11/15/78 - 08/31/81. Principal Investigator: R.H. Weisberg.

NOAA Sea Grant, “Analysis and Prediction of Ocean Surface Gravity Waves on the N.C. Coast.” Total Award = \$82, 162 for the period 01/01/79 - 12/31/81. Principal Investigators: C.E. Knowles and R.H. Weisberg.

NOAA-ERL Contract #NA80RAC00026, “Deep Ocean Variability During EPOCS. Total Award = \$270,756 for the period 10/79 - 09/30/82. Principal Investigator: R.H. Weisberg.

NSF Grant #OCE-7923335, “Seasonal Variability in the Equatorial Atlantic.” Total Award = \$587,826 for the period 05/15/80 - 01/31/83. Principal Investigator: R.H. Weisberg.

NOAA-ERL Contract #NA83RAC00021, “EPOCS Deep Ocean Variability Analysis.” Total Award = \$45,000 for the period 10/01/82 - 09/30/83. Principal Investigator:

R.H. Weisberg.

WHOI Grant #P016878, Subcontract for SEQUAL Mooring Purchases.” Total Award = \$60,035 for the period 01/01/83 - 04/30/83. Principal Investigator: R.H. Weisberg.

NOAA-ERL Contract #NA84RAC00021, “EPOCS Deep Ocean Variability Analysis.” Total Award = \$25,000 for the period 04/01/84 - 09/30/84. Principal Investigator: R.H. Weisberg.

NSF Grant #OCE-8211848, “The Seasonal Equatorial Atlantic Experiment (SEQUAL): Response of the upper ocean circulation to the annual wind cycle.” Total Award = \$1,169,463 for the period 04/01/82 - 03/21/86. Principal Investigator: R.H. Weisberg

NSF Grant #OCE-8515869, “ The Seasonal Response of the Equatorial Atlantic Experiment (SEQUAL): Upper ocean current and temperature analysis from moored current meter.” Total award = \$209,739 for the period 01/01/86 – 6/30/87. Principal Investigators: R.H. Weisberg and T.Y. Tang.

NSF Grant #OCE-8740380, “The Seasonal Response of the Equatorial Atlantic Experiment (SEQUAL): Upper ocean current temperature analysis from moored current meters.” Total award = \$171,445 for the period 01/01/87 - 12/31/97. Principal Investigators: T.Y. Tang and R.H. Weisberg.

NSF Grant #OCE-8813378, Equatorial Pacific Ocean Current instabilities, R.H. Weisberg, Principal Investigator, \$438,703 for the period 3/15/89 - 11/30/89, Total award for the 4-year continuing period 3/15/89 - 11/30/92 = \$914,746.

NSF Grant #OCE-8841927, The SEQUAL Experiment: Upper Ocean current and temperature analyses, R.H. Weisberg, Principal Investigator, \$115,000 for the period 02/01/89 - 01/31/90, Total cumulative award for the 2-year period 02/01/88 - 01/31/90 = \$240,000.

NOAA Grant #NA87AA-D-AC120, Upper ocean current and temperature monitoring at the equator, 170°W. R.H. Weisberg, Principal Investigator, \$231,428 for the period 02/01/90 - 01/31/91, Total cumulative award for the 4-year period 09/01/87 - 01/31/90 = \$697, 772.

USGS Grant #14008-0001-A0577, Physical factors affecting salinity intrusion in wetlands, Principal Investigators: R.H. Weisberg and A.C. Hine. Total award = \$81,430 for the period 09/22/90 - 09/30/91.

NATIONAL TAIWAN UNIVERSITY, Preparation of a turnkey acoustic Doppler current profiling mooring. R H Weisberg, Principal Investigator. Total award =

\$119,304 for the period 12/01/90 - 07/31/91.

NOAA Sea Grant R/NOS-1, Physical factors affecting the circulation of Tampa Bay. \$24,171 for the period 05/01/91 - 03/31/92. R. H. Weisberg, Principal Investigator.

USGS Contract #1408-0001-A0577. West Florida Shelf Initiative, R.H. Weisberg, A.C. Hine and P.R. Betzer, Principal Investigators, award for FY93 = \$18,376 (plus a university equipment match of \$112,000). Note that the above P.I.'s agreed to a budget reduction on this contract to allow new P.I.'s to join the west Florida shelf initiative with new projects.

FDNR Contract #C-7957. Acquisition of oceanographic data, R. H. Weisberg, Principal Investigator, Total award = \$60,000 for the period 11/16/92 - 11/15/93.

USGS Contract #1408-0001-A0577. Wetlands Project - Physical factors affecting salinity intrusion, R.H. Weisberg and A. C. Hine, Principal Investigators, award for FY93 = \$64,279.

NATIONAL TAIWAN UNIVERSITY. Turnkey acoustic doppler current profiler mooring II, R.H. Weisberg, Principal Investigator, Total award = \$107,046 for the period 10/05/91 - 04/30/92.

NATIONAL TAIWAN UNIVERSITY. Monitoring of upper ocean currents and temperature at 0, 170°W in collaboration with the National Taiwan University, FY93, R.H. Weisberg, Principal Investigator, Total award = \$28,566 for the period for the period 09/01/92 - 08/31/93.

NSF Grant #OCE-8813378. Equatorial Pacific Ocean current instabilities, R.H. Weisberg, Principal Investigator, Total award for the 3.5 - year continuing period 03/15/89 - 11/30/92 = \$985,605.

NSF Grant #OCE-9202737. Dynamics and energetics of the upper equatorial Pacific, Co-PI with E. Johnson, total award = \$23,500 for the period 12/92 - 9/23. This was Johnson's grant. I was on it for administrative purposes.

USGS Contract #1408-0001-A0577. West Florida Shelf Initiative, R.H. Weisberg, A.C. Hine and P.R. Betzer, Principal Investigators, award for FY92 = \$62,747 (plus a university equipment match of \$370,000).

USGS Contract #1408-0001-A0577. Wetlands Project - Physical factors affecting salinity intrusion, R. H. Weisberg and A.C. Hine, Principal Investigators, award for FY92 = \$73,287.

USGS Contract #1434-94-A-1185. West Florida Shelf Hydrography and Circulation,

- R.H. Weisberg, A.C. Hine and P. R. Betzer, Principal Investigators award for FY94 = \$85,000.
- USGS Contract #1408-0001-A0577. Wetlands Project - Physical factors affecting salinity intrusion, R.H. Weisberg and A.C. Hine, Principal Investigators, award for FY94 = \$64, 279.
- NOAA Grant #NA36GP0143-01. Monitoring of upper ocean currents and temperature at 0°, 170°W with support of TOGA, R.H. Weisberg, Principal Investigator. Total award for the two-year period 05/1/93 - 04/30/95 = \$125,038.
- USGS Contract #1434-94-A-1185. West Florida Shelf Hydrography and Circulation. R.H. Weisberg, A.C. Hine and P.R. Betzer, Principal Investigators. (Award for FY95 = \$85,000, lmm).
- USGS Contract #1434-94-A-1185. Wetlands Project - Physical factors affecting salinity intrusion, R.H. Weisberg and A.C. Hine, Principal Investigators. Award for FY95 = \$40,981.
- NWFWMD Effects of Sikes Cut on Apalachicola Bay Salinity. R.H. Weisberg, P.I., Total Award = \$34,440 for the period 06/01/93 - 09/30/95.
- ONR Sub-Account #1245-191-L3. Omnibus grant for ocean technology center. R.H. Weisberg, Principal Investigator, (\$277,645).
- MMS Contract #14-34-0001-30767. Northeastern Gulf of Mexico Satellite Oceanography Study Principal Investigators, Kendall Carder, Frank Muller-Karger, and R.H. Weisberg, Total Award = \$134,548 for 18 month period starting October 1, 1994.
- NSF Grant #OCE-9302811. The Tropical Instability Wave Experiment (TIWE) equatorial array: Analysis and dissemination of results, R.H. Weisberg, Principal Investigator, Total award = \$185,000 for the two-year period 05/01/93 - 04/30/95.
- NSF Grant #OCE-9100024. TOGA-COARE enhanced monitoring: meridional array for currents along 156E, R.H. Weisberg, Principal Investigator, Total request for the 5-year continuing period 05/15/91 - 04/30/96 = \$819,000.
- USGS Contract # 1434-94-A-1185. West Florida Shelf Hydrography and Circulation, R.H. Weisberg, A.C. Hine and P.R. Betzer, Principal Investigators, \$100,000 for FY96.
- NOAA Grant #NA56GP0241. Empirical and monitoring studies on air-sea interactions and SST evolution over the PACS program region. R.H. Weisberg, Principal Investigator, \$281,784 for 24 month period beginning 04/01/95.

USGS Contract #1434-94-A-1185. West Florida Shelf Hydrography and Circulation, R.H. Weisberg, A.C. Hine and P.R. Betzer, Principal Investigators. \$86,000 for the 1 year period beginning 10/1/97.

FDEP Contract #LE189, A real time oceanographic data system for Florida, Co-P.I. with M. Luther, R.H. Weisberg portion = \$299,000 for the period 10/29/97 - 9/30/98.

NOAA Contract # NA66GP0119, Diagnostic studies of equatorial central Pacific ocean velocity variations in relation to the TOGA TAO array and ENSO, 301,243 for the 36 mo. period beginning 2/1/96. (grant ended 3/31/99).

NSF Grant # OCE-9525912, TOGA-COARE enhanced monitoring array analysis, R.H. Weisberg, P. I. 345,000 for the three year period beginning 12/12/95 (no-cost-extension for FY00).

MMS (subcontract from FSU) Northeastern Gulf of Mexico circulation study, R.H. Weisberg, P. I. \$140,225 for the 3 year period beginning 10/1/95 (no-cost-extension for FY00).

NOAA Contract # NA86GP0030, Empirical and monitoring studies on air-sea interactions and SST evolution over the PACS Program region, \$290,253 for the period 10/1/97-12/31/99. (90,459 for FY99, no-cost extension for FY00).

MMS (subcontract from FSU) Northeastern Gulf of Mexico circulation modeling study, R. H. Weisberg, P. I. \$753,156 for the four year period beginning 10/1/95 (201,555 for FY99, no cost extension for FY00).

NOAA Grant # NA96GP0462, Interhemisphere and intergyre exchange processes in the upper limb of the meridional overturning circulation, co-P.I. with G. Halliwell, RSMAS, 52,845 for the two year period beginning 10/1/99.

FDCA Grant # 02CP-10-13-00-05-127, West Florida Coastal Monitoring System, C. Merz, R.H. Weisberg, and M. Luther, co-P.I.s, 166,539 for the period 6/19/01-6/30/02.

NOAA Grant # NA76RG0463, ECOHAB: Florida, J. Walsh, G. Vargo, and R. Weisberg, co-P.I.s (USF); K. Steidinger et al., co-P.I.s (FDEP and Mote Marine Lab). The portion under the supervision of R.H. Weisberg is 715,000 for the four year continuing period beginning 3/1/98. (155,000 for FY01; NCE for FY02).

FDEP-FIO PO#S 3700 760668, Piney Point waste water disposal monitoring, R.H. Weisberg, PI, 29,488 for the period 7/1/03-6/30/04.

ONR Grant # N0014-98-1-0158, Observations and modeling of the West Florida continental shelf circulation, R.H. Weisberg and M. Luther, P.I.s, 3,469,965 for

the period 11/1/97-2/28/05.

NSF Grant # OCE-0118566, Collaborative research: Particulate organic carbon fluxes and sediment accumulation in the Cariaco Basin, co-investigator with F. Muller-Karger, R.H. Weisberg portion = 232,816 for the period 10/1/01-9/30/03.

FFWCC/FMRI Grant # S 7701 622006, Refinement of an electronic logbook to support fishing operations by spatially predicting shrimp abundance in relation to environmental conditions off the west coast of Florida, R.H. Weisberg, P.I., 22,500 for the period 3/3/04-6/30/05.

NOAA Grant # NA16GP1571: Diagnostic studies of the equatorial Atlantic cold tongue, R.H. Weisberg, G. Mitchum, and G. Lagerloef (ERS) co-P.I.s, 358,300 for the 3 year period beginning 9/1/01 (NCE for FY05-06).

FFWCC/FMRI Grant #DO138085, Observing and modeling near shore circulation on the inner portion of the WFS in support of red tide studies in relation to Calosahatchee River flow, R.H. Weisberg, P.I., 79,918 for the period 7/20/05-9/8/05.

FFWCC/FMRI Grant #, Hindcasting the West Florida Shelf circulation during the 2005 red-tide, R.H. Weisberg, P.I., 26,250 for the period 2/27/06-6/30/06.

ONR Grant # N0014-00-1-0253, Bottom stationed ocean profiler, R.H. Weisberg, R.H. Byrne, and C. Lembke co-P.I.s, 1,725,478 for the period 12/1/99-7/31/05.

FFWCC/FMRI Grant # S 7701 620071, NOAA/MERHAB Eastern GOMx Sentinel Program, J.J. Walsh, R.H. Weisberg, C. Lembke, and D. Fries, co-P.I.s, 1,150,000 for 5 years. R.H. Weisberg portion is 623,171.

ONR Task Order #:3-12110-10 (administered by Univ. of North Carolina), Southeast Atlantic Coastal Ocean Observing System (SEACOOS), R. H. Weisberg and M. Luther, co-P.I.s, 3,228,578 for the period 9/1/02-8/31/07.

NSF Grant # OCE-0326268, Collaborative research: The Cariaco Basin Oceanographic Time Series Program, co-investigator with F. Muller-Karger, Five year continuing award, R.H. Weisberg portion = 660,092 for the period 10/1/03-9/30/08.

NOAA/COTS Grant # , Enhancements to the Coastal Ocean Monitoring and Prediction System for west Florida, M.E. Luther and R.H. Weisberg, co-P.I.s, 1,938,943 for the period 8/1/04-7/31/06, R.H. Weisberg portion = 1,428,966.

FL-DEP Contract # RM050, Hydrodynamic model of Rookery By and Henderson Creek, R.H. Weisberg and L. Zheng, P.I.s, 70,000 for 8/10/2006-8/9/2007.

FL-DEP Contract # DO329620, Assessing red-tide bloom movement using surface Drifters, R.H. Weisberg, P.I., 18,000 for 8/28/06-5/30/07.

FL-DOH Contract # , Assessing the effects of currents on coastal beaches, R.H. Weisberg, P.I., 39,310 for 11/24/06-7/31/07.

ONR (NOPP) Grant # N00014-04-1-0676, administered through RSMAS, Univ. of Miami, U.S. GODAE: Global ocean prediction with the Hybrid Coordinate Ocean Model (HYCOM), R.H. Weisberg, P.I. (at USF), five year continuing award, 297,203 for the period 6/3/04-9/30/09.

NOPP Grant # N00014-05-1-0892, HYCOM coastal ocean hindcasts and predictions: impact in nesting HYCOM GODAE assimilative hindcasts, G. Halliwell, RSMAS, lead P.I., R.H. Weisberg USF co-P.I., 3-year continuing award 294,545 for the period 8/26/05-7/30/09.

SC SEAGRANT, federal pass through from NOAA, NA07NOS4730219-5032, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 75,000 for the period 11/15/07-9/30/08.

SC SEAGRANT, federal pass through from NOAA, NA07NOS4730409, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 50,000 for the period 8/1/08-7/31/09.

USF/FWRI Cooperative red tide research program, FWC Contract # 07113, J.J. Walsh and R.H. Weisberg co-P.I.s, five year continuing award in the amount of 1.25M, terminated for lack of funds after 2 years, RHW portion, 250,000 for 7/1/07-12/31/09.

ONR N000014-04-1-0573, Bottom stationed ocean profiler design improvements, C. Lembke, J. Patten, R. Russell, R. Byrne and R.H. Weisberg, P.I.s, 450,000 for the period 5/1/09-4/30/10, RHW portion = 0 (not counted in summaries below).

SC SEAGRANT, federal pass through from NOAA, NA07NOS4730409, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 75,000 for the period 8/1/9-7/31/10.

ONR Grant # N00014-05-1-0483, Observations and modeling of the West Florida continental shelf circulation, R.H. Weisberg, P.I., 1,500,000 for the period 4/1/05-4/30/10 (NCE for FY11).

SC SEAGRANT, federal pass through from NOAA, NA07NOS4730409, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 95,000 for the period 8/1/10-7/31/11 (NCE for FY12).

SC SEAGRANT, federal pass through from NOAA, NA07NOS4730409, Maintaining moored observations for SECOORA, R.H. Weisberg, P.I., 165,000 for the period 8/1/10-7/31/11 (NCE for FY12).

FL-FWC, federal pass through from NOAA, NA06NOS4780246, ECOHAB nutrient dynamics in the eastern Gulf of Mexico, J.J. Walsh and R.H. Weisberg, co-P.I.s, 1,294,267 for the five year period 5/7/07-8/31/11, R.H. Weisberg portion =750,000 (NCE for FY12)

ONR N000014-10-1-0573, Bottom stationed ocean profiler design improvements, C. Lembke, J. Patten, R. Russell, R. Byrne and R.H. Weisberg, P.I.s, 366,757 for the period 5/1/10-4/30/11 R.H. Weisberg portion = 0 (NCE for FY12).

UF, federal pass through from NOAA, NA07NOS4730211, A regional storm surge and inundation test bed for SECOORA: Applications of the FVCOM, R.H. Weisberg, P.I., 244,000 for the three year period beginning 1/1/08 (NCE for FY12).

ONR Grant # N00014-10-1-0785, Observations and modeling of the West Florida continental shelf circulation, R.H. Weisberg, P.I., \$279,000 for the period 4/1/10-4/30/11. (NCE for FY12)

NSF OCE-0741705, The influence of oceanographic and biological processes on the distribution of cetaceans on the West Florida Shelf: a synoptic study based on underwater and space-based remote sensing, D.A. Mann, F. Muller-Karger, and R.H. Weisberg, P.I.s, 1,663,761 for the three year period 8/15/07-7/31/10; Weisberg portion = \$301,297 (NCE for FY12).

UNC-CH, subcontract on SURA Super-regional Testbed, Inundation Component, UNC-CH 5-43705, R.H. Weisberg, P.I., \$72,500 for the period 6/1/10-5/31/11.

ONR N000014-10-1-0794, Plankton Optical Tracers of Coastal Circulation Models, J.J. Walsh and R. H. Weisberg co-P.I.s, 299,555 for the period 4/1/10-4/30/11, Weisberg portion = \$95,999, (NCE for FY12).

FSU, subcontract on Florida Legislature FS1004-647, Catastrophic storm risk management, R.H. Weisberg, P.I., \$153,062 for the period 12/1/9-12/31/11 (NCE for FY12).

BP 4710-1101-05, A coordinated modeling approach to oil spill tracking, R.H. Weisberg, V. Kourafoulou (RSMAS), and E. Chassignet (FSU), co-P.I.s, \$660,000 for the period 8/13/10-8/12/12 (Weisberg portion = 220,000).

USF, FESC, 7921-1000-27, Alternative energy potential for Florida by mechanical and solar means, R.H. Weisberg, P.I., \$39,363 for the period 2/16/10-6/31/11.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining moored observations for SECOORA, R.H. Weisberg, P.I., 142,500 for the period 6/1/11-5/31/12.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 95,000 for the period 6/1/11-5/31/12.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Data Management for SECOORA, R.H. Weisberg, P.I., 16,600 for the period 6/1/11-5/31/12.

SURA Federal pass through from NOAA, NA11NOS0120033, USF contribution to US IOOS Super-regional model testbed, 30,000 for the period 8/1/11-7/31/12.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining moored observations for SECOORA, R.H. Weisberg, P.I., 130,245 for the period 6/1/12-5/31/13.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining high-frequency radars for SECOORA, R.H. Weisberg, P.I., 143,571 for the period 6/1/12-5/31/13.

The Florida State University - Subcontract R01489, pursuant to Ocean Leadership Subaward SA 12-12/GoMRI-008, Deep-C Project Consortium, R.H. Weisberg, P.I., \$555,000 for the period 10/1/12 to 12/31/15. (185,000 for FY13)

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining moored observations for SECOORA, R.H. Weisberg and Y. Liu, PIs, 162,451 for the period 6/1/13-5/31/14.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining high-frequency radars for SECOORA, R.H. Weisberg and C. Merz, PIs, 143,570 for the period 6/1/13-5/31/14.

The Florida State University - Subcontract R01489, pursuant to Ocean Leadership Subaward SA 12-12/GoMRI-008, Deep-C Project Consortium, R.H. Weisberg, P.I., \$555,000 for the period 10/1/12 to 12/31/15. (185,000 for 2013)

Southwest Florida Water Management District. Generation of Water Level, Salinity, and Temperature Data near Charlotte Harbor from the West Florida Shelf Model, L. Zheng and R.H. Weisberg, PIs, Total award = 31,450 for the period 6/25/13 to 12/31/14.

Florida Water Research Institution, Development of a High Resolution Karenia Tracking Tool within the West Florida Coastal Ocean Model, J. Lenos and R.H. Weisberg, PIs, Total award = 100,000 for the period 7/1/13 to 5/31/14 (Weisberg portion = 50,000)

NSF XSEDE Computer Resource Program. Contract #: OCE130015. Very high resolution, baroclinic, three-dimensional coastal ocean circulation modeling from XSEDE for computation resource, L. Zheng and R.H. Weisberg, PIs 741,042 SUs awarded (no monetary award).

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining moored observations for SECOORA, R.H. Weisberg and Y. Liu, PIs, 169,759 for the period 6/1/14-5/31/15.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining high-frequency radars for SECOORA, R.H. Weisberg and C. Merz, PIs, 151,963 for the period 6/1/14-5/31/15.

Florida Water Research Institution, Development of a High Resolution Karenia Tracking Tool within the West Florida Coastal Ocean Model, J. Lenos and R.H. Weisberg, PIs, Total award = 100,000 for the period 7/1/14 to 5/31/15 (Weisberg portion = 50,000)

NSF XSEDE Computer Resource Program. Contract #: OCE130015. Very high resolution, baroclinic, three-dimensional coastal ocean circulation modeling from XSEDE for computation resource, L. Zheng and R.H. Weisberg, PIs 741,042 SUs awarded (no monetary award), award supplemented to July 2015

NOAA/WHOI rapid glider award, total award = 9,642 (for glider use)

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining moored observations for SECOORA, R.H. Weisberg and Y. Liu, PIs, 186,168 for the period 6/1/15-5/31/16.

SC SEAGRANT, federal pass through from NOAA, NA11NOS0120033, Maintaining high-frequency radars for SECOORA, R.H. Weisberg and C. Merz, PIs, 161,452 for the period 6/1/15-5/31/16.

NASA Contract # NNX13AE18G, Satellite Altimetry Products in the Eastern Gulf of Mexico, Veracity Testing and Applications, R.H. Weisberg and Y. Liu, PIs, Total award = 408,942 for the period 1/10/13-1/9/17.

Southwest Florida Water Management District. Generation of Water Level, Salinity, and Temperature Data near Charlotte Harbor from the West Florida Shelf Model, L.

Zheng and R.H. Weisberg, PIs, Total award = 71,975 for the period 6/25/13 to 8/31/15.

The Florida State University - Subcontract R01489, pursuant to Ocean Leadership Subaward SA 12-12/GoMRI-008, Deep-C Project Consortium, R.H. Weisberg, P.I., \$555,000 for the period 10/1/12 to 12/31/15.

Pinellas Co., FL, Coastal Ocean Monitoring and Prediction System (COMPS): Publicly Accessible Real Time Winds, Waves and Currents from Pass-a-Grille Channel, R.H. Weisberg, P.I., 233,934 for the period 8/1/16-7/31/18; NCE through 12/31/19.

NAS Award # 2000009327, Irma Equipment Repair Award, 47,165 for the period 4/1/18-3/31/19, R.H. Weisberg, PI.

Summary: Previous cumulative funding as P.I., 32,039,834.
Previous cumulative funding as P.I. while at USF, 28,921,523.

RESEARCH CRUISES:

January 1970, Member of scientific party aboard R/V TRIDENT, North Atlantic Currents Study.

Fall 1970 and Fall 1972, Several estuarine research excursions for Ph.D. and M.S. Dissertation Projects.

April 1972, Member of scientific party aboard R/V TRIDENT, Atlantic Equatorial Undercurrent Study.

July 1974, Chief Scientist, R/V TRIDENT, Cruise 155, Equatorial Currents and Hydrographic Measurements during the GARP Atlantic Tropical Experiment (GATE).

August 1974, Co-Investigator, R/V TRIDENT, Cruise 156, Equatorial Currents and Hydrographic Measurements during the GARP Atlantic Tropical Experiment (GATE).

June 1976, Co-chief Scientist, N/O CAPRICORNE, Observations of Equatorial Trapped Waves in the Gulf of Guinea.

July 1977, Co-chief Scientist, N/O CAPRICORNE, Observations of Equatorial Trapped Waves in the Gulf of Guinea.

January 1978, Co-chief Scientist, N/O NIZERY Observations of Equatorial Trapped

Waves in the Gulf of Guinea.

February 1981, Chief Scientist, R/V ENDEAVOR, Seasonal Variability in the Equatorial Atlantic.

November 1981, Chief Scientist, R/V GYRE, Seasonal Variability in the Equatorial Atlantic.

February 1983, Co-Investigator, R/V CONRAD, Seasonal Response of the Equatorial Atlantic (SEQUAL).

March 1984, Chief Scientist, R/V KNORR, Seasonal Response of the Equatorial Atlantic (SEQUAL).

June 1989, Principal Investigator, N/S BALDRIGE, TOGA Monitoring array.

May 1990, Chief Scientist, R/V WECOMA, Tropical Instability Wave Experiment (TIWE).

January 1992, Chief Scientist, R/V MOANA WAVE, equatorial Pacific NSF/NOAA TOGA-COARE Program.

October 1993, Chief Scientist, R/V SUNCOASTER, west Florida shelf.

November, 1993, Chief Scientist, R/V SUNCOASTER, west Florida shelf.

November/December 1997, Co-Investigator, R/V THOMPSON, equatorial Pacific (NOAA PACS Program).

March 1998, Chief Scientist, R/V SUNCOASTER, West Florida Shelf.

September 1998, Chief Scientist, R/V SUNCOASTER, West Florida Shelf.

September 2003, Chief Scientist, R/V SUNCOASTER, West Florida Shelf.

September 2004, Chief Scientist, R/V SUNCOASTER, West Florida Shelf.

March 2009, Chief Scientist, R/V Weatherbird II, West Florida Shelf

OTHER CRUISE RESPONSIBILITIES:

Four cruises in the equatorial Pacific during the NOAA-EPOCS experiment from 03/80 - 04/82.

Five additional SEQUAL cruises, in the equatorial Atlantic.

Several Pamlico Sound excursions 1978-1979.

NOAA TOGA Program cruises in the equatorial Pacific 05/88, 04/90,
02/91, 01/92, 03/93, 03/94, 03/95.

NSF TIWE Project 06/91.

NSF/NOAA TOGA-COARE Program 03/93.

West Florida shelf deployment, Project Leader (non-participant), R/V GILBERT,
03/09/94.

NSF and NOAA cruise to equatorial Pacific, Project Leader (non-
participant), R/V MOANA WAVE, 03/15 - 04/05/94.

West Florida shelf deployment, Project Leader (non-participant),
Charter boat 07/16/94, R/V SUNCOASTER 01/95, R/V BELLOWS 07/95.

The COMPS/ECOHAB/ONR Projects have had cruises on a monthly basis since July
1998.

I continue to have responsibility for all cruises on the West Florida Shelf associated with
the Coastal Ocean Monitoring and Prediction System (COMPS) Program and the
Southeast Coastal Ocean Observing System Regional Association (SECOORA) Program,
for which I have primary operations responsibility for at-sea observations and models.

RECENT TESTIMONY, DEPOSITIONS, AFFIDAVITS

Helen Davis v State Farm Fire & Casualty Company, Cause No.: 1:06-cv-574 in the
United States District Court for the Southern District of Mississippi, Southern Division,
deposed on July 6, 2007

Lydia Schultz v State Farm Fire & Casualty Company, Cause No.: 1:06-cv-449 in the
United States District Court for the Southern District of Mississippi, Southern Division,
deposed on July 6, 2007

Reginald Edwin Bossier v State Farm Fire & Casualty Company, Cause No.: 1:08-cv-
00408 in the United States District Court for the Southern District of Mississippi,
Southern Division, Testimony on November 9, 2009.

*Dairy America, Inc. v New York Marine and General Insurance Company; Crump
Insurance Services; Southern Marine and Aviation Underwriters; Arthur J. Gallagher
and Company; Hartford Casualty Insurance Company*, Dist. Ct. No.: 1:07-cv-00537-

LJO-SMS, United States District Court for the Eastern District of California, deposed on February 22, 2010.

Al Cossey v State Farm Fire & Casualty Company, Cause No.: 05-0381, in the Circuit Court of Hancock County Mississippi, Testimony on July 21, 2010.

Written and oral testimony before the US House of Representatives, Committee on Natural Resources, Subcommittee on the Oceans, Wildlife and Insular Affairs, Washington DC, June 15th 2010, as pertaining to the Deepwater Horizon Oil Spill.

Written and oral testimony before the US House of Representatives, Committee on Transportation and Infrastructure, Washington DC, December 7th 2011, as pertaining to H.R. 3096, the Restore Act.

Karen Pickett, Robbie Pickett and Archie Pickett Individually and as heirs at law of The Estate of Thomas Pickett, Plaintiffs. v. Blue Sea Adventures, Inc., SCUBA Toys Enterprises, L.L.C., and HEAD USA, Inc., Defendant, Cause No. CC-11-05941-E In The County Court at Law Number 5, Dallas County, Texas; Affidavit provided 2/23/12.

Florida Wildlife Federation, Inc.; Sierra Club, Inc.; Conservancy of Southwest Florida, Inc.; Environmental Confederation of Southwest Florida, Inc.; and St. Johns Riverkeeper, Inc., Petitioners *v. Department of Environmental Protection*, Respondent, and *Florida League of cities; James Sartori; Clay County Utility Authority; Florida Pulp & Paper Association Environmental Affairs, Inc.; Destin Water Users, Inc.; South Walton County Utility Co., Inc.; Emerald Coast Utilities Authority; South Florida Water Management District; The Florida Electric Power Coordinating Group, Inc.; Florida Fruit and Vegetable Association; Florida Sugar Cane League; and Florida Stormwater Association, Inc.*, Intervenors, Case Nos. 11-6137RP and 12-0157RP, hearing before Bram D. E. Canter, Administrative Law Judge of the Division of Administrative Hearings in Tallahassee, Florida, March 2, 2012.

Deposition for the above referenced cases held at Sierra Club Inc., Headquarters, St. Petersburg, FL., February 23, 2012.

United States of America v Lenin Lugo, Case # 8:17-cr-222-T-27JSS, in the United States District Court, Middle District of Florida, Tampa Division, Testimony on 1/9/18.