

Robert H. Weisberg

Distinguished University Professor
Physical Oceanography
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Date of Birth:

May 20th 1947

Education:

1969 B.S. Cornell University, Materials Science and Engineering
1972 M.S. University of Rhode Island, Physical Oceanography
1975 Ph.D. University of Rhode Island, Physical Oceanography

Professional Experience:

2007-present Distinguished University Professor, University of South Florida
1988-present Professor, University of South Florida
1984-1988 Associate Professor, University of South Florida
1981-1986 Associate Professor, North Carolina State University
1976-1981 Assistant Professor, North Carolina State University
1976-1982 Adjunct Professor, University of Rhode Island
1969-1976 Graduate Assistant, University of Rhode Island
1969-1977 U.S. Army Reserve (Rank 03)

Honors/Awards:

SURA Fellow, 2011
Phi Kappa Phi Honor Society and USF Chapter Scholar of the Year, 2011
USF Distinguished University Professor, 2007
NOPP Excellence in Partnering Award (shared with other P.I.s), 2007
USF President's Award for Excellence, 2003
Editor's citation for excellence in refereeing, Geophys. Res. Lett., 1995

Professional Service Highlights

Editor, JGR-Oceans, 2006-2010
NRC Comm. on New Orleans Regional Hurricane Protection Projects, 2005-2010
NASEM Comm. On GRP Loop Current Dynamics Study, 2017-2018.
Testimony, 6/15/10, US Congress, House Committee on Nature Resources,
Subcommittee on Insular Affairs, the Oceans and Wildlife.
Testimony, 12/7/11, US Congress, House Trans. and Infrastructure Committee.
Other civil and criminal expert testimony.
Chairman elect, Board of Directors, Menorah Manor Senior Living.

Member: AGU, AMS, TOS

Advisors: Ph.D., Dr. J. Knauss; M.S., Dr. W. Sturges

Narrative: Dr. Weisberg is a physical oceanographer engaged in ocean circulation and ocean-atmosphere interaction studies. Present emphasis is on the West Florida Continental Shelf where he coordinates observations with numerical circulation models

to describe and understand the processes that determine shelf and estuary water properties. Interdisciplinary applications include harmful algal blooms, fisheries, storm surge and other topics of societal concern, including tracking the Deepwater Horizon oil spill.

Graduate Advisees:

M.S.: R. Chao, M. Purba, C.K. Wu, Zhen Li, M.R. Zhang, B. Black, E. Siegel, B. O'Loughlin, A. Reinert

Ph.D.: A. Horigan, T.Y. Tang, C.K. Wu, T.J. Weingartner, C. Wang, L. Qiao, Zhenjiang Li, R. He, R. Helber, J. Virmani, Y. Liu

Present Graduate Students: J. Chen, L. Solinas, J. Law

Teaching: Ocean Circulation Dynamics, Readings in Ocean Circulation, Introduction to Physical Oceanography, Gravity Waves, Long Waves, Analysis of Oceanographic Time Series, Equatorial Dynamics, Environmental Fluid Mechanics, Readings in Climate Modeling, Ocean Mixed Layer, Seminar, Introduction to Oceanography (undergraduate).

Refereed Publications (selected recent examples):

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.

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, 10-29, doi:10.1016/j.ocemod.2012.02.002.

Liu, Y. and R.H. Weisberg (2012), Seasonal Variability on the West Florida Shelf. *Prog. Oceanogr.*, 104, 80-98.

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.

Weisberg, R.H., L. Zheng, Y. Liu, S. Murawski, C. Hu, and J. Paul (2014), Did Deepwater Horizon Hydrocarbons Transit to the West Florida Continental Shelf? *Deep-Sea Res., Part II*, doi:10.1016/j.dsr2.2014.02.002.

Weisberg, R.H., L. Zheng, Y. Liu, C. Lembke, J.M. Lenos 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.

Weisberg, R.H., L. Zheng and E. Peebles (2014), Gag grouper larvae pathways on the West Florida Shelf, *Cont. Shelf Res.*, doi:10.1016/j.csr.2014.06.003

Weisberg, R.H., L. Zheng and Y. Liu (2015). Basic tenets for coastal ocean ecosystems monitoring., in *Coastal Ocean Observing Systems: Advances and Syntheses*, Y. Liu, H. Kerkering and R.H. Weisberg, eds., Elsevier.

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.

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.

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>.