

Supporting the Blue Economy - SECOORA 2018 Annual Meeting

SECOORA Principal Investigator Abstracts

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Operate and Maintain University of South Florida IOOS Priority High Frequency Radars in SECOORA

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USF continues to operate and maintain three US IOOS/SECOORA identified priority CODAR system HFR sites (Naples, Venice and Redington Shores), along with two WERA HFR sites (Venice and Ft. DeSoto Park), overlooking our instrumented mooring array. Data are sent to SECOORA, NOAA NDBC, and the IOOS National HFR CORDC Network (HFRNet) for integration, display and dissemination. The data are also being posted on the USF College of Marine Science COMPS Ocean Circulation Group web site (<http://ocgweb.marine.usf.edu>). We continue to work with other SECOORA region HFR operators to standardize operations, data delivery, display and dissemination, maintain data integrity and provenance, provide accuracy estimates of surface currents and develop common data products for stakeholders. The average CORDC up-time for HFR data received from Dec 1, 2017 to May 7, 2018 by all five USF HFR sites was 92.5%.

Hurricane Irma passed directly over the entire USF HF Radar array. Although the 5 sites suffered no direct storm related damage, several of the sites experienced reductions in real-time up-times because of prolonged power outages. Specifically: Redington Shores CODAR – down approximately 2.5 days; Ft DeSoto WERA – down approximately 7 days; and Naples CODAR – down approximately 10.5 days. The Venice CODAR and WERA sites did not lose power and operated continuously throughout the storm's passage without any data loss to provide a valuable and unique data record incorporated in: Liu, Y., R.H. Weisberg, C.R. Merz, J. Law, L. Zheng, and J. Chen: West Florida Shelf response to hurricane Irma, Ocean Sciences Meeting, Portland Oregon, Feb 2018.

Recent papers include:

Liu Y., Merz C.R., Weisberg R.H., O'Loughlin B.K., Subramanian V. (2018) Data Return Aspects of CODAR and WERA High-Frequency Radars in Mapping Currents. Chapter 11 In: Venkatesan R., Tandon A., D'Asaro E., Atmanand M. (eds) Observing the Oceans in Real Time. Springer Oceanography. Springer, Cham, 333 pp. DOI: 10.1007/978-3-319-66493-4. On-line publish date: November 20, 2017.