



The Spring 2020 Physical Oceanography Seminar series presents:

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**Double-thermostad eddies in the World Ocean:  
A discovery of double-thermostad warm-core ring of the Gulf Stream**

**Abstract:**

Double-thermostad eddies have been observed sporadically since the 1970s. Yet such eddies have never been reported in the Slope Sea north of the Gulf Stream. In May 2016, during the R/V *Endeavor* Cruise 578, a double-thermostad warm-core ring of the Gulf Stream was discovered south of Georges Bank. Life history of this ring was reconstructed independently from satellite SST and SSH. Analysis of shipborne CTD/XBT/ADCP data combined with SST imagery and SSH maps revealed that the double-thermostad ring was formed by vertical alignment of two pre-existing warm-core rings of the Gulf Stream. The combined in situ/satellite data set analyzed in this study represents one of the best-documented cases of vertical alignment of two eddies ever observed in the World Ocean.

Seminars are in Corless Auditorium (Watkins Building) at **10:30am**, followed by lunch in Nautilus Galley. Please contact Laura & Mansur if you would like to schedule an individual meeting with the presenter at [mansur@uri.edu](mailto:mansur@uri.edu) or [auraglastra@my.uri.edu](mailto:auraglastra@my.uri.edu).