



Geofizički odsjek,
Prirodoslovno-matematički fakultet,
Sveučilište u Zagrebu,
Horvatovac 95, 10000 Zagreb
Tel. (+385 1) 46 05 900, fax: (+385 1) 46 80 331

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OBAVIJEST

Dana **05.09.2018.** od **13:45** do **14:15 h** održat će se na Geofizičkom
odsjeku PMF-a sljedeće izlaganje:

Prof. Suping Zhang

(Department of Marine Meteorology, Ocean University of China)

The Response of Atmospheric Boundary Layer and Its clouds to Oceanic Eddies in the Kuroshio Extension

ABSTRACT: A research vessel (R/V), Dongfanghong 2 of Ocean University of China, sailed across a cold eddy in April 2014 and a warm eddy in April 2016 in the Kuroshio Extension. During both of the cruises, the R/V observations captured clear modulations of the marine atmospheric boundary layer (MABL) and developments of marine low clouds, mainly stratocumulus, over the two eddies under different synoptic pressures. Based on the analysis of the observations, possible mechanisms involved in the atmospheric responses to oceanic eddies were suggested. Regional atmospheric model experiments were conducted to aid the interpretations of the in situ observations. Comparisons between the atmospheric responses to the two eddies indicated that sea surface pressure adjustment plays a major part in the warm eddy case and that both air pressure adjustment and vertical mixing in the MABL are important in the cold eddy case.

* QIAN WANG, Su-Ping Zhang, SHANG-PING XIE, JOEL R. NORRIS, JIAN-XIANG SUN & YU-XI JIANG, 2019, Observed Variations of the Atmospheric Boundary Layer and Stratocumulus over a Warm Eddy in the Kuroshio Extension, *Mon. Wea. Rev.* 147, 1581-1591.

Jiang, Y., Zhang, S., Xie, S.-p., Chen, Y., & Liu, H., 2019. Effects of a cold ocean eddy on local atmospheric boundary layer near the Kuroshio Extension: In situ observations and model experiments. *JGR*, 124. <https://doi.org/10.1029/2018JD029382>

Pozivaju se studenti svih razina i svi zainteresirani da prisustvuju predavanju, koje će se održati u **predavaoni P2** Geofizičkog odsjeka PMF-a, Horvatovac 95, Zagreb.