

Interactive comment on “Field Investigations of Coastal Sea Surface Temperature Drop after Typhoon Passages” by Dong-Jiing Doong et al.

Anonymous Referee #2

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Field investigations of coastal sea surface temperature (SST) drop after typhoon passages is discussed passage at different coastal buoy stations off Taiwan. temperature drops have been observed and discussed at offshore locations. The authors state that the purpose of their research is to study the sea surface temperature drops with the specific aim to understand the possible mechanisms. The data analysis presented in the manuscript, however, is superficial and inconclusive. the comments for this paper as follows: 1. from the moored buoys, we can obtain the profile data even though the depth is 23 m, it is possible to keep more instruments to obtain the data. if so, why authors do not use the different depths data to explain the mechanism? 2. authors used current data but did not mention in which depths the data has been used. 3. authors mentioned that the relation between SST drop and intensity of the typhoon, however,

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they did not give any relation between them. 4. from the figure 8, authors mentioned that Kuroshio waters intruded to long dong and other observation areas, however at long dong buoy area, the depth is only 23 m, how the Kuroshio waters come to the surface of the long dong buoy surface? authors need to check properly and if it is so, need to clear explanation about it.

overall, the authors used many data sets, but the interpretation and discussion are not inconclusive.

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