

The observed south Java upwelling process and its intraseasonal variations

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The South Java Upwelling(SJU) develops in response to the southeastern monsoon wind forcing. Based on the in situ mooring, tide gauge, satellite and model data, we document its development, mature and decay process. It is interesting to note that SJU exhibits strong intraseasonal variability, in sharp contrast to the conventional picture of smooth seasonal upwelling. In extreme case, SJU even breaks for a while. This reflects its strong nature of remote forcing from the Equatorial Indian Ocean, except for its local wind forcing. High resolution model simulation is assessed on its capacity to capture the key upwelling features.

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