

# Modelling Study of the Zhe-Min Coastal current

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Zhe-Min Coastal current is oriented from the Changjiang river estuary. It is driven by the Northeast monsoon in Winter and flow Southwestward along the Zhe-min coastal region. Zhe-min Coastal current carries abundant nutrients and fresh water from Changjiang river discharge, which is critical important for the evolution of coastal pelagic ecosystem and aquaculture. A SCHISM model is established to study the seasonal variation and extent of the Zhe-min coastal current. Besides the classic coastal branch, it is indicated by the model that after mixing with KETe, Zhe-min coastal current water will spread in the Taiwan strait and fresh the east side of the strait. The control mechanisms of the seasonal and annual variation of the Zhemin Coastal current are also analyzed.

Keywords: Zhe-min coastal current, control mechanism, unstructured model

