

Research on Spatiotemporal Characteristics of Suspended Sediment Concentration Based on Remote Sensing Inversion: A Case Study of Liaodong Bay

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Introduction

This supplementary material provides additional information on SSC variability in Liaodong Bay, including the locations of published in situ SSC observations, monthly SSC distributions, and variations in associated environmental factors. These figures complement the analyses of vertical

SSC characteristics, seasonal changes in the high-turbidity water body, and environmental influences presented in the main text.

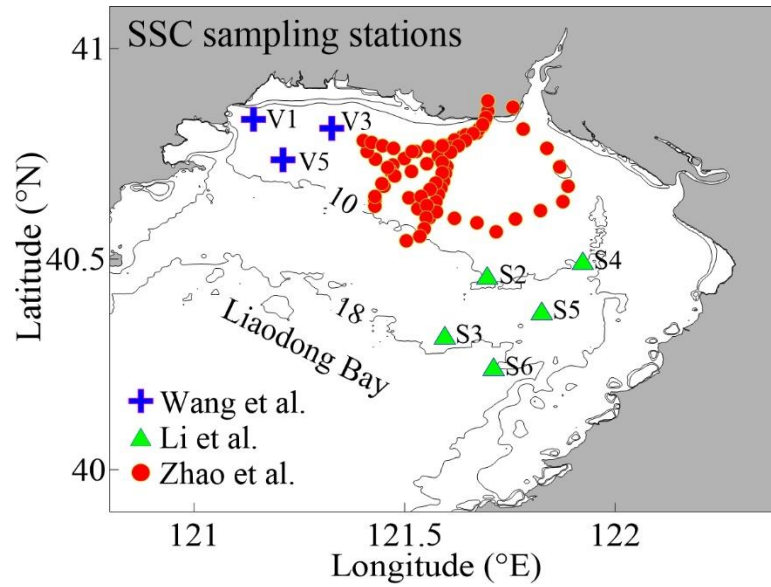


Figure S1. Locations of published in situ SSC measurement stations in Liaodong Bay. Station locations were compiled from Wang et al. (2015), Zhao et al. (2023), and Li et al. (2025).

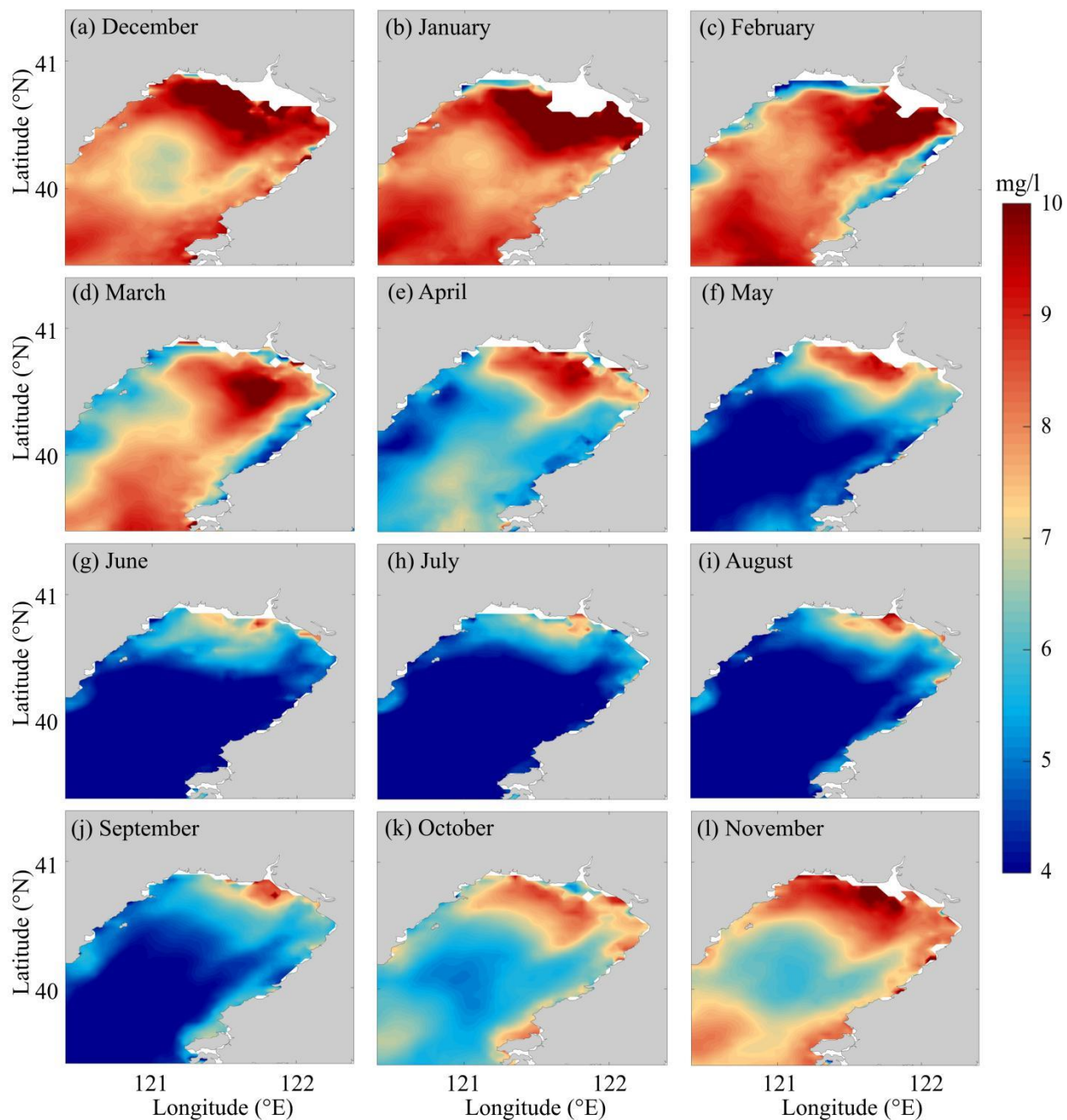


Figure S2. Monthly mean spatial distributions of SSC in Liaodong Bay. The SSC data were derived from MODIS observations and averaged for each calendar month over the study period (2002–2026).

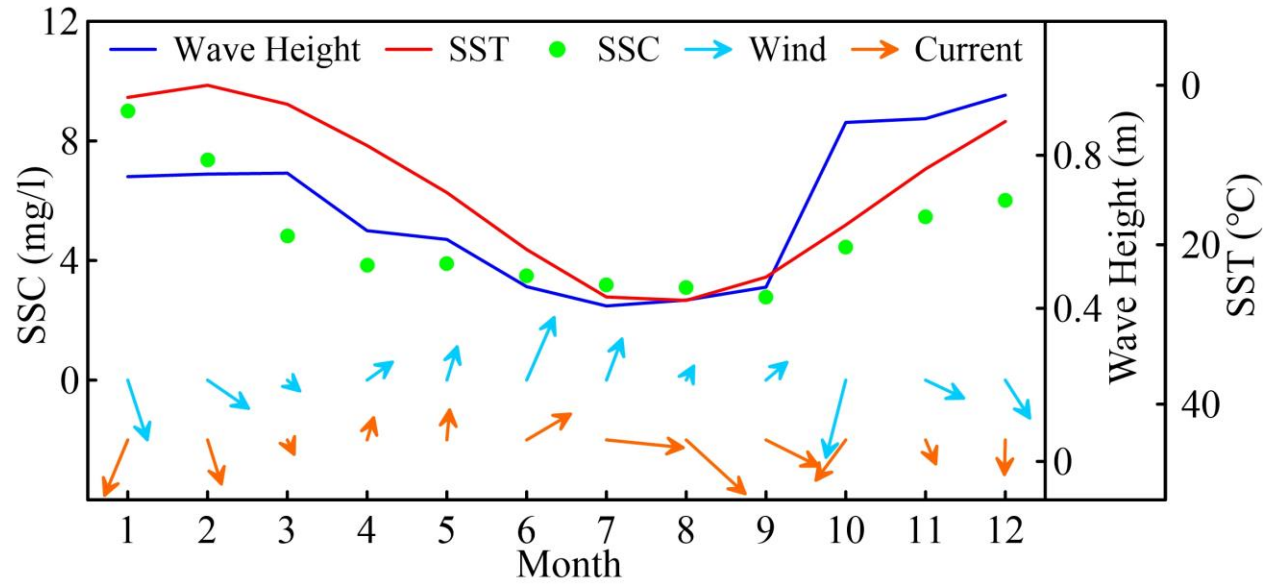


Figure S3. Monthly variations in SSC and associated environmental factors in Liaodong Bay. All variables were spatially averaged over the study area. Green dots represent SSC, while red and blue lines indicate SST and significant wave height, respectively. Cyan and orange arrows indicate wind and current vectors, respectively.