



Supplement of

Effect of tides on river water behavior over the eastern shelf seas of China

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Figure S1. (a) The 3-year variation in the total kinetic energy of the models for the control
run and no-tide case, respectively. (b) The variation in the total kinetic energy in the first
month.







Figure S2. The relative change in the vertical turbulent diffusivity coefficients in February (a) and August (b) after removing tides in the model.



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11 Figure S3. Monthly and vertically averaged velocity for the control run (left panels) and

12 no-tide case (right panels), respectively. (a, c) for February and (b, d) for August.



Figure S4. (a) Tidal ellipses for M_2 tide. (b) Contour lines of coamplitude (solid lines, with an interval of 0.2 m) and cophase (dashed lines, with an interval of 30°) for M_2 tide.

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