

***Interactive comment on* “The Influence of Turbulent Mixing on the Subsurface Chlorophyll Maximum Layer in the Northern South China Sea” by Chenjing Shang et al.**

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Thank you for your suggestion. We have modified and improved the Figures. Since the colourbar range of some Figures is different, we choose three colors in the colourbar to highlight their layered structure, for example, Figures 7a, 7b, 7e, and 7f.

Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2020-26>, 2020.

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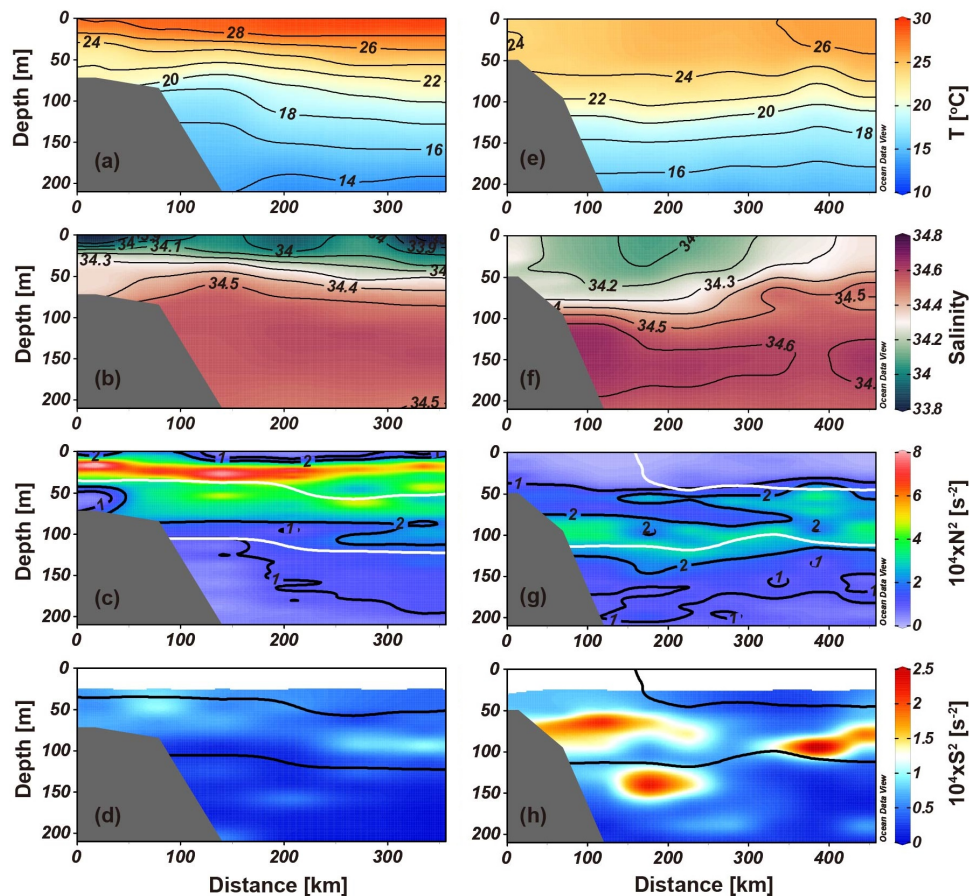


Fig. 1. Figure 4: (Left) Distributions of (a) temperature, (b) salinity, (c) squared buoyancy frequency, (d) squared shear for transect A. (Right) The same as (left) but for transect B. Overlaid white and bla

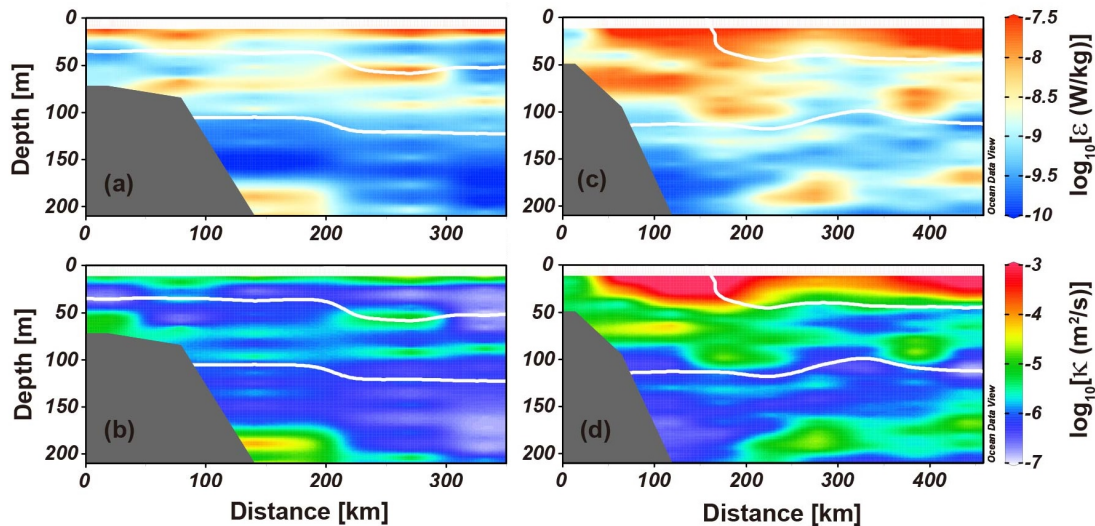


Fig. 2. Figure 5: (Left) Distributions of (a) ε and (b) κ for transect A. (Right) The same as (left) but for transect B. Overlaid white lines in each panel are the boundaries of the subsurface chlorophyll max

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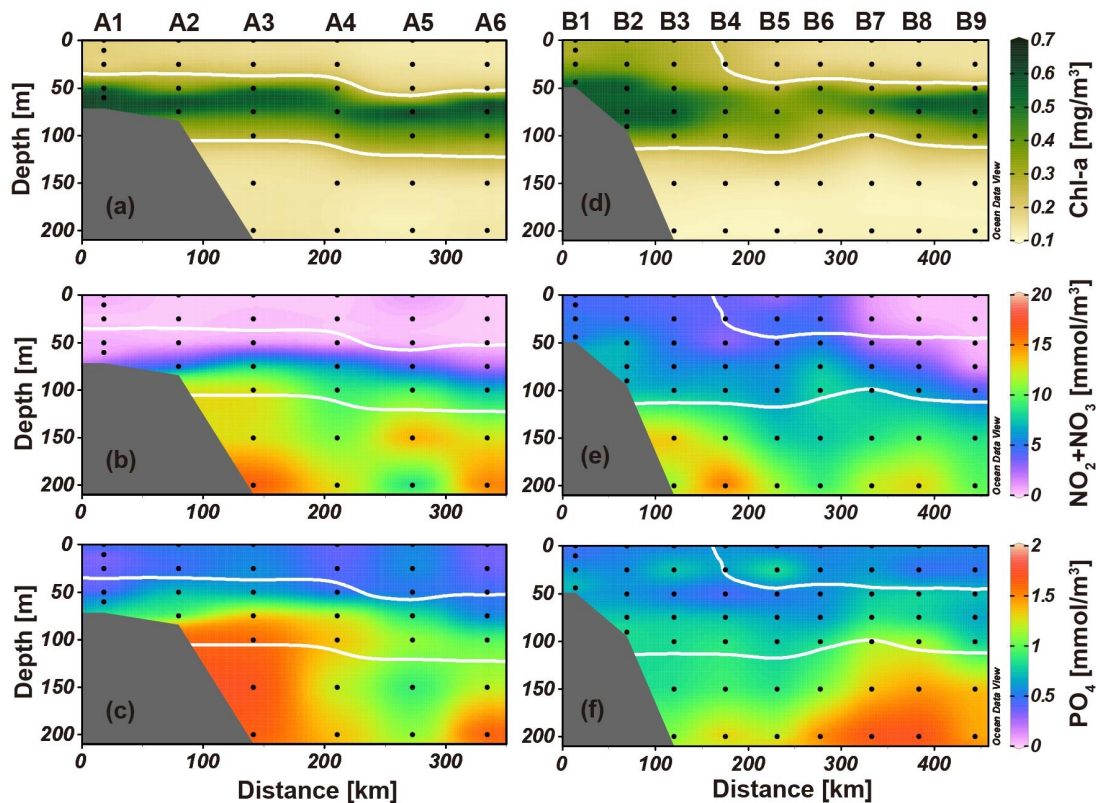


Fig. 3. Figure 6: (Left) Distributions of (a) chlorophyll a (chl-a) concentration, (d) nitrate and nitrite (NO₂+NO₃) concentration, (e) phosphate (PO₄) concentration for transect A. (Right) The same as (left)

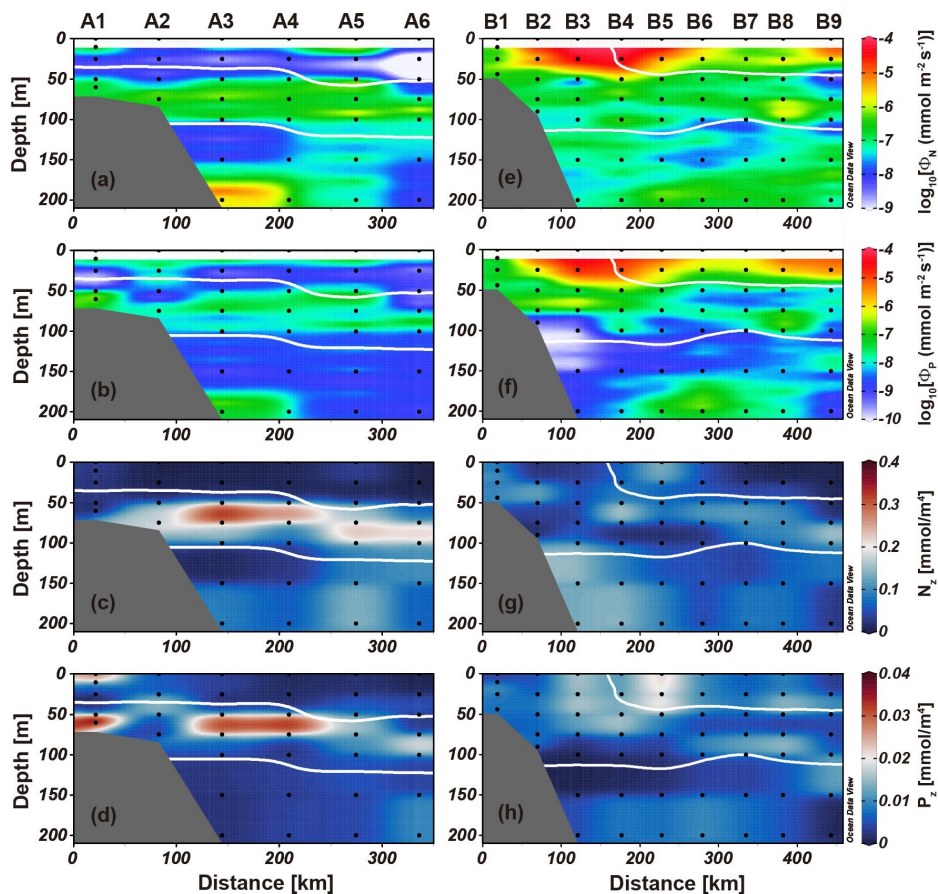


Fig. 4. Figure 7: (Left) Distributions of (a) nitrate and nitrite flux (Φ_N), (b) phosphate flux (Φ_P), (c) vertical gradient of nitrate and nitrite concentration (N_z), and (d) vertical gradient of phosphate