

Supporting Information

[Global wavenumber spectra of sea surface salinity in the mesoscale range]

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Figures S1 to S4

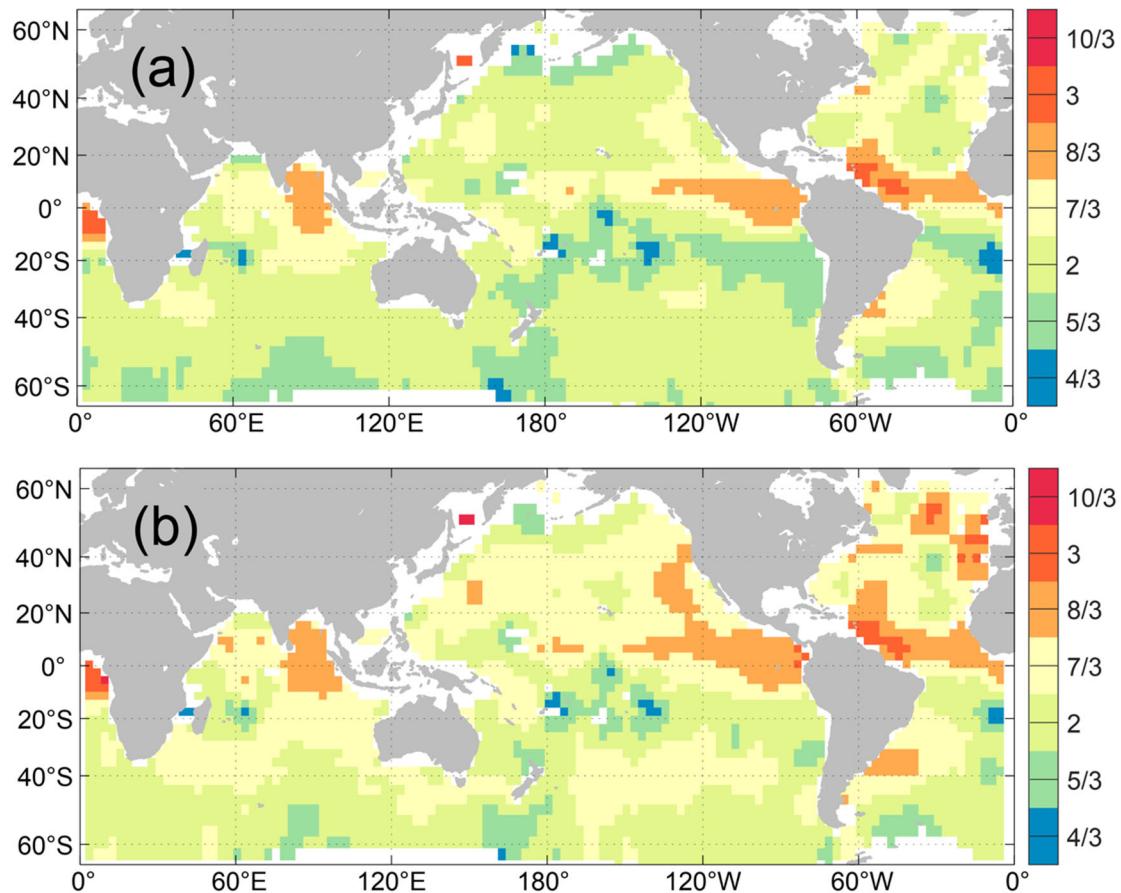


Figure S1. Results of the noise level sensitivity test by (a) decreasing and (b) increasing the noise level by 10%. Global pattern of the spectral slope ($\times -1$) estimated from mean SSS wavenumber spectrum after noise level removal (e.g., figure 1b, black curve). Unit is $\log(\text{PSU}^2)/\log(\text{km}^{-1})$.

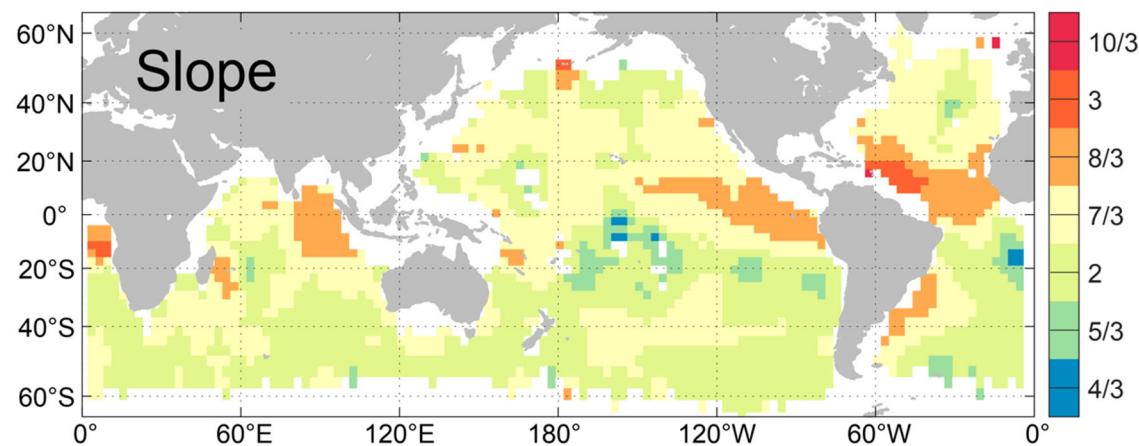


Figure S2. (a) Same as figure 4b but for the 20° by 20° bin box.

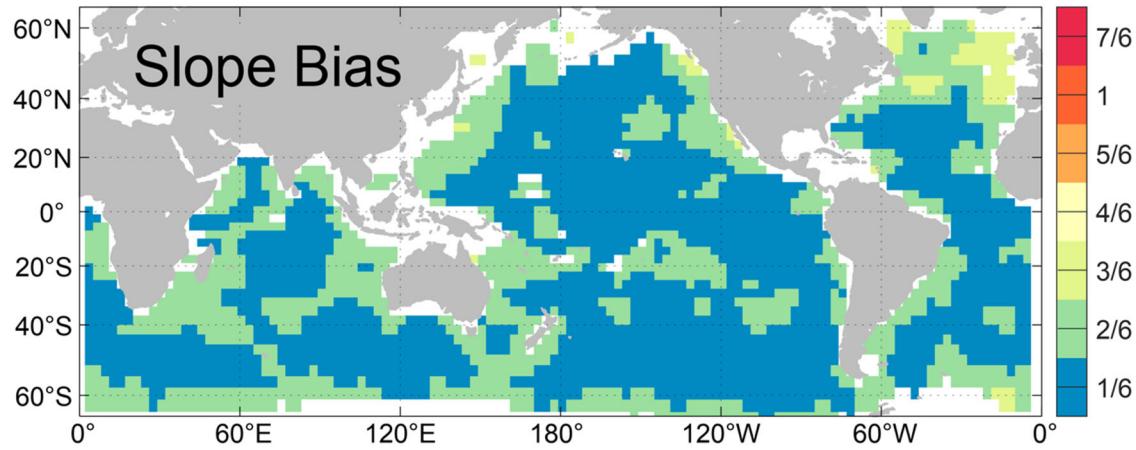


Figure S3. The bias of the spectral slope at 95% confidence levels. Unit is $\log(\text{PSU}^2)/\log(\text{km}^{-1})$.

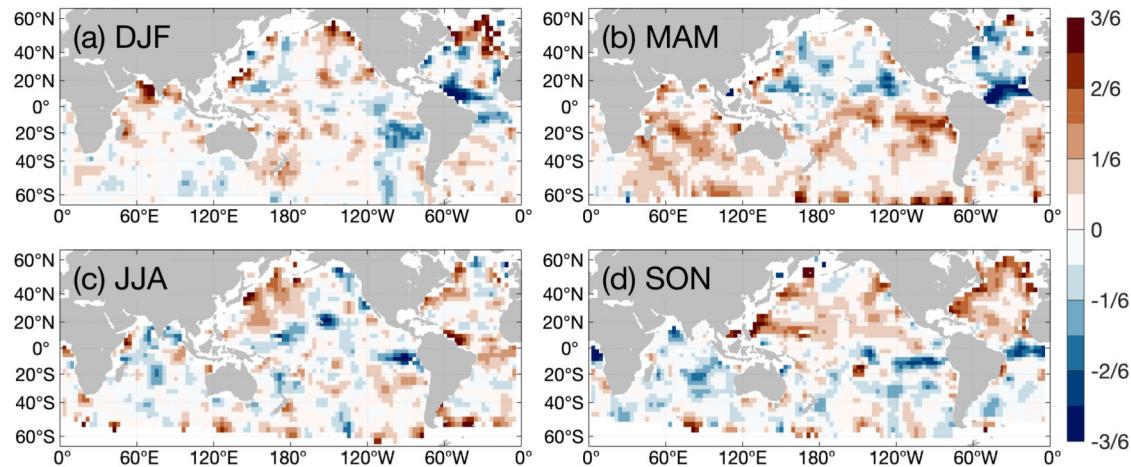


Figure S4. Seasonal anomaly pattern of spectral slope ($\times -1$) estimated from mean SSS variance spectrum after noise level removal during boreal (a) December to February (DJF); (b) March to May (MAM); (c) June to August (JJA); (d) September to November (SON). Unit is $\log(\text{PSU}^2)/\log(\text{km}^{-1})$.