SUPPLEMENTAL MATERIAL

Supplemental Material for: “A Practical Formulation for an Anisotropic and Nonstationary Matérn Class Correlation Operator”

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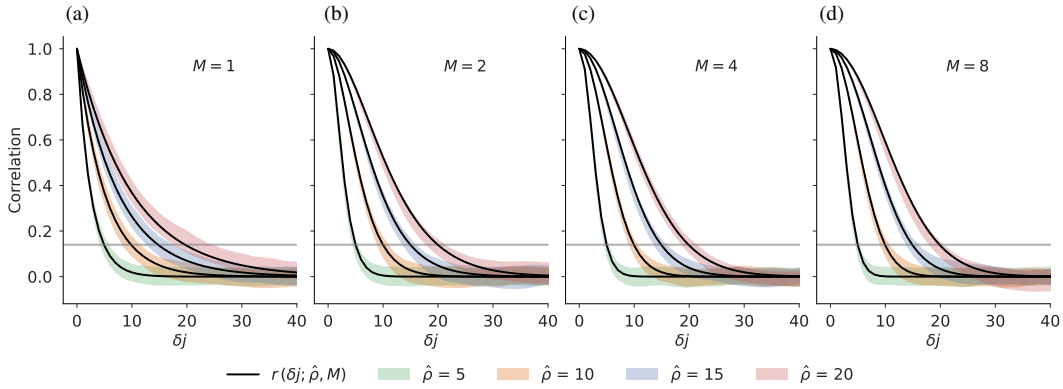

FIGURE S1 Correlation structure computed from the theoretical Matérn correlation function (black) and from 1,000 samples using a subset of the "Lat-Lon-Cap" grid within the Pacific Ocean (shaded coloring). The sample correlation is computed in the meridional direction, δj, indicating the number of neighboring grid cells from 0.2°N. The shading indicates the spread between the first and ninth deciles, based on sample correlations at all depth levels and latitudes from 157.5°W and 97.5°W.

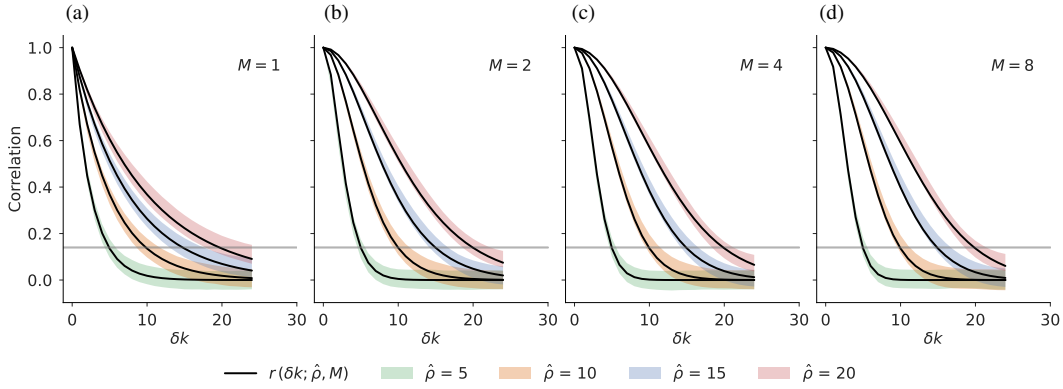

FIGURE S2 Same as Figure S1, but the sample correlation is computed in the vertical direction, δk, indicating the number of neighboring grid cells from 722 m depth (the 25th vertical level). The shading indicates the spread between the first and ninth deciles, based on sample correlations at each grid cell from 157.5°W to 97.5°W in the zonal direction and 70°S to 37°N in the meridional direction. There are 50 vertical levels on the LLC grid.