Supplement of

RC4USCoast: a river chemistry dataset for regional ocean model applications in the US East Coast, Gulf of Mexico, and US West Coast

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Figure S1. River mouth locations assigned to the USGS sites in the RC4USCoast database. Green, red, and blue dots correspond to river discharging to the East, Gulf of Mexico, and West Coast, respectively.
Figure S2. Scatterplots showing the association between the alkalinity parameter 00410 ($A_{00410}$; x-axis) and other alkalinity parameters (y-axis) in the USGS database: (a) $A_{00419}$, (b) $A_{29801}$, (c) $A_{39036}$, (d) $A_{39086}$, (e) $A_{00410}$, (f) $A_{00440}$, (g) $A_{00453}$).
Figure S3. Scatterplots showing the association between (a) nitrate parameters 00618 and 71851, (b) ammonia parameters 00608 and 71846, and (c) phosphate parameter 00660 and 00671.
Figure S4. Mean patterns for nutrients concentration and other river’s variables: nitrate (NO₃, filtered), nitrate plus nitrite (NO₃ plus NO₂, filtered), ammonia (NH₄, filtered), phosphate (PO₄, filtered), organic nitrogen (orgN, filtered and unfiltered), total nitrogen (TN, filtered and unfiltered), and total phosphorous (TP, filtered and unfiltered).
Figure S4 (continued). Water temperature, dissolved oxygen (DO), silica (SiO₂), and discharge. Colorbar for discharge is in log scale.
Figure S5. Long-term mean (colored dots and squares) of river DIC. Squares (dots) represent river stations with a mean discharge greater (smaller) than 500 m$^3$ s$^{-1}$. Colorbar is in logscale.
Table S1. Selected USGS station for the river chemistry dataset. Coordinates for the USGS stations and approximate location for the river mouths are reported.

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