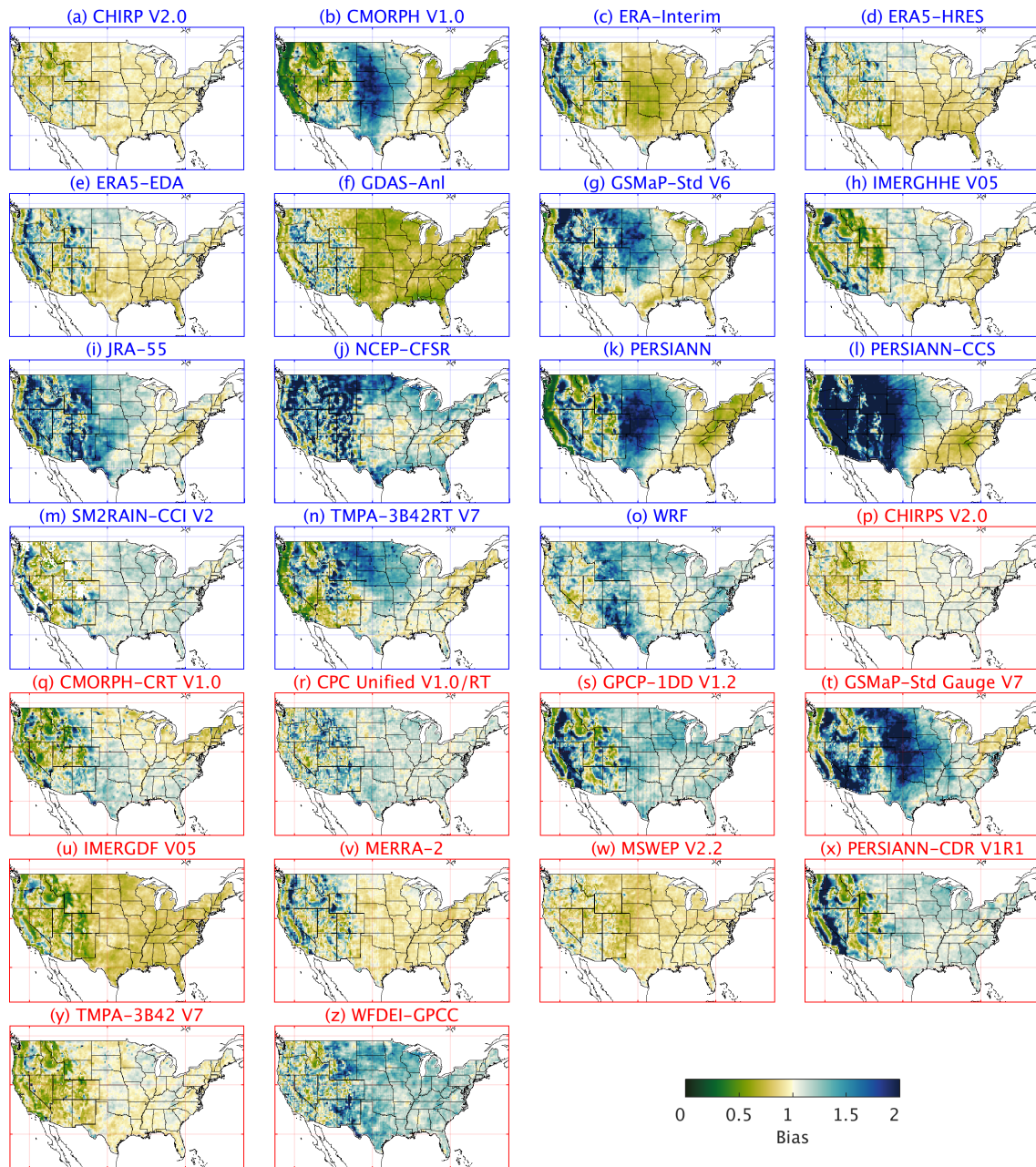
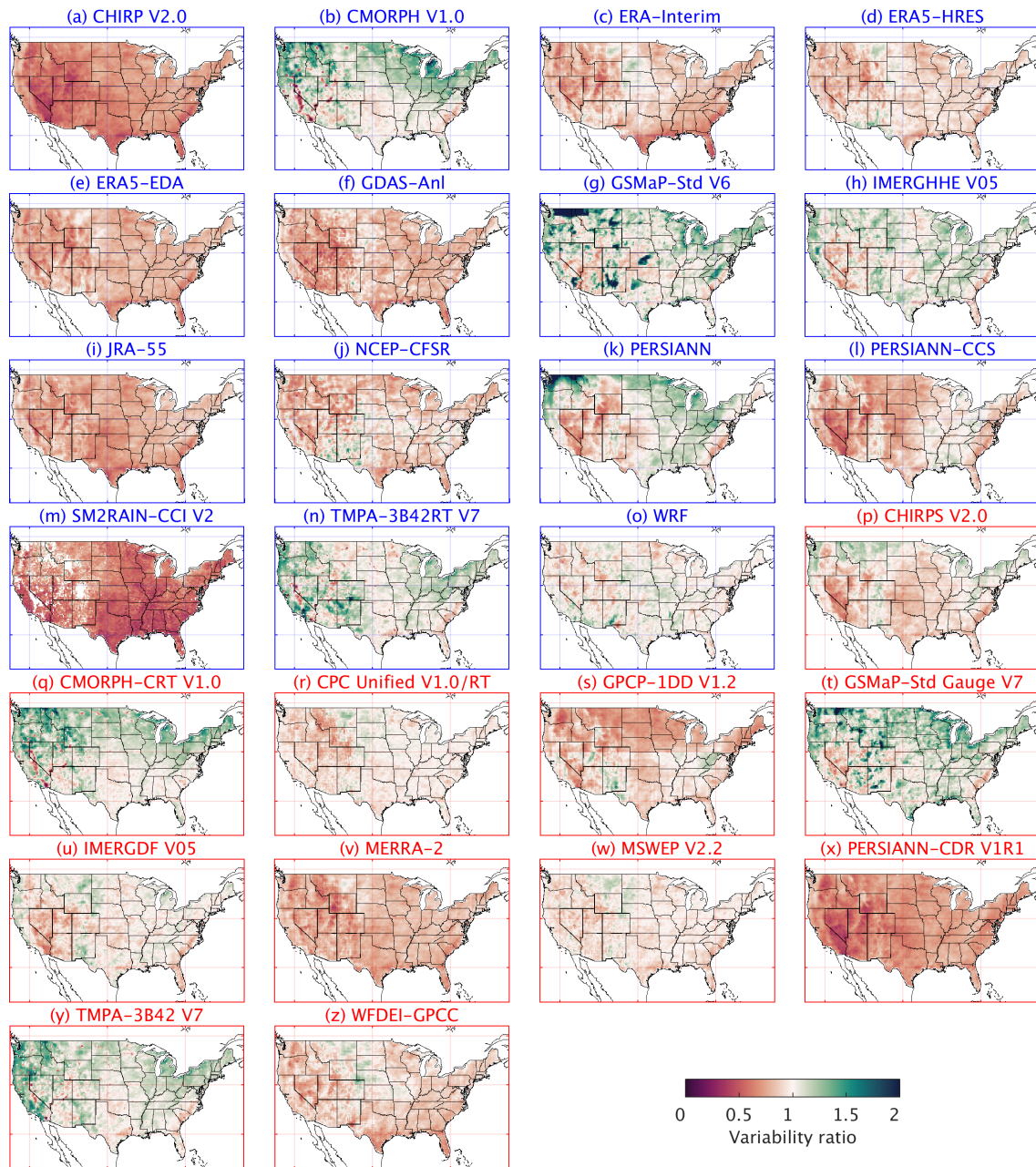
Supplement Figure S1. Correlations for the 26 gridded *P* datasets using the Stage-IV gauge-radar dataset as reference. White indicates missing data. Higher correlations correspond to better performance. Uncorrected datasets are listed in blue, whereas gauge-corrected datasets are listed in red.

Supplement Figure S2. Bias values for the 26 gridded *P* datasets using the Stage-IV gauge-radar dataset as reference. White indicates missing data. Values closer to 1 correspond to better performance. Uncorrected datasets are listed in blue, whereas gauge-corrected datasets are listed in red.

Supplement Figure S3. Variability ratios for the 26 gridded *P* datasets using the Stage-IV gauge-radar dataset as reference. White indicates missing data. Values closer to 1 correspond to better performance. Uncorrected datasets are listed in blue, whereas gauge-corrected datasets are listed in red.