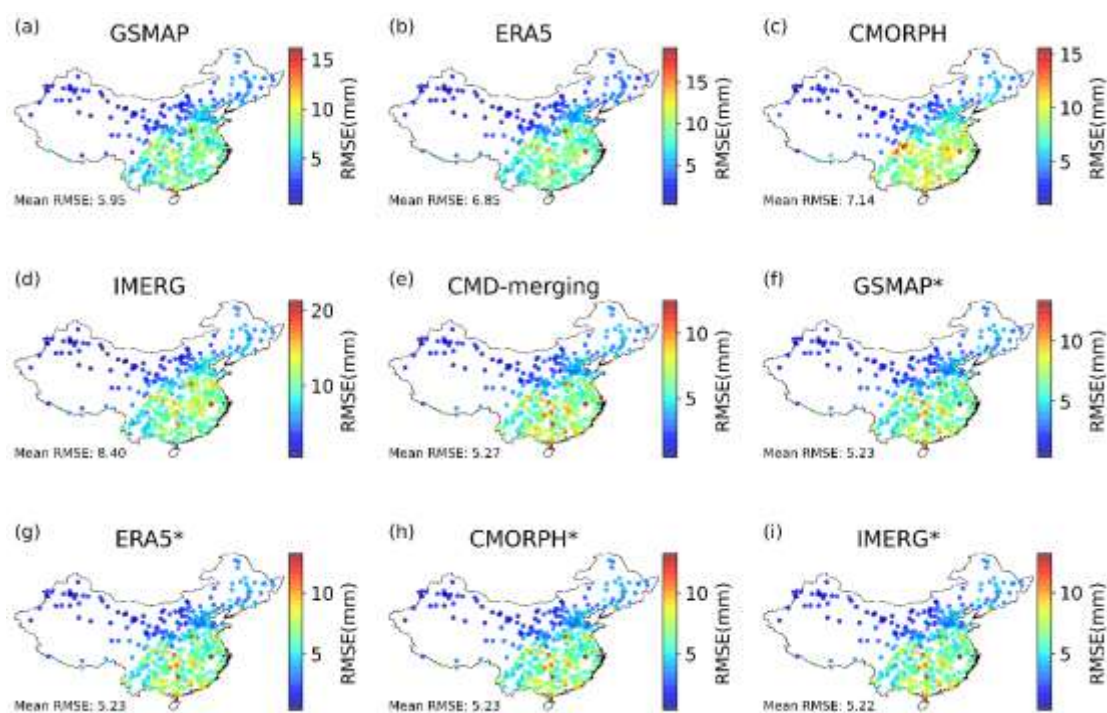
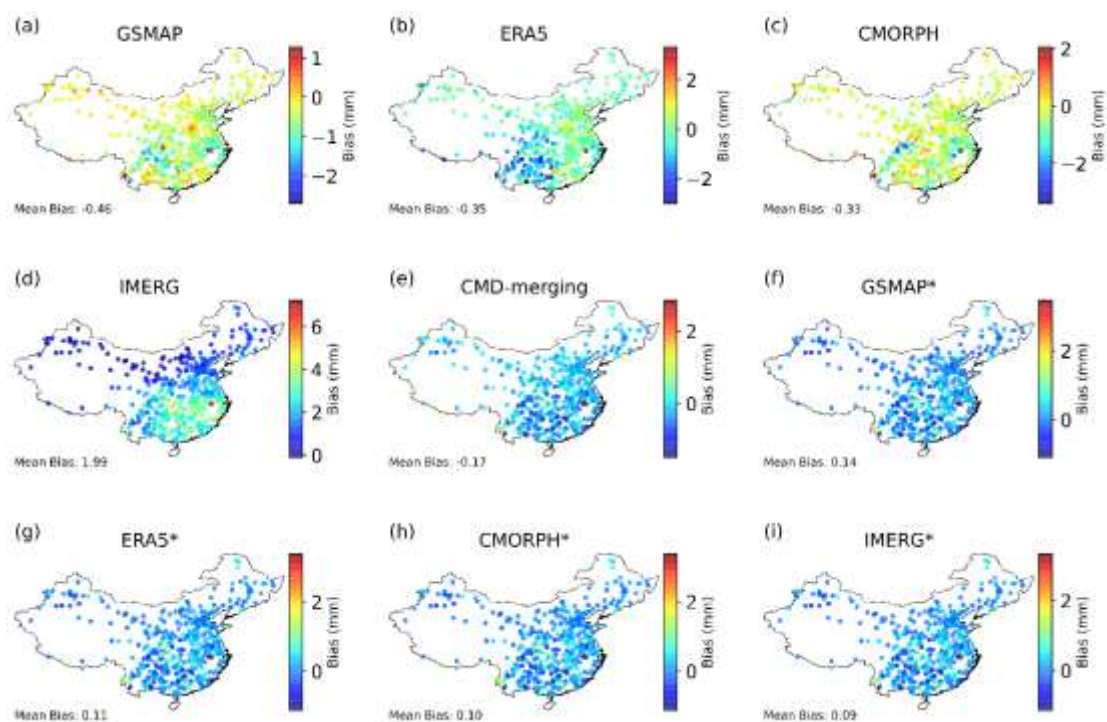


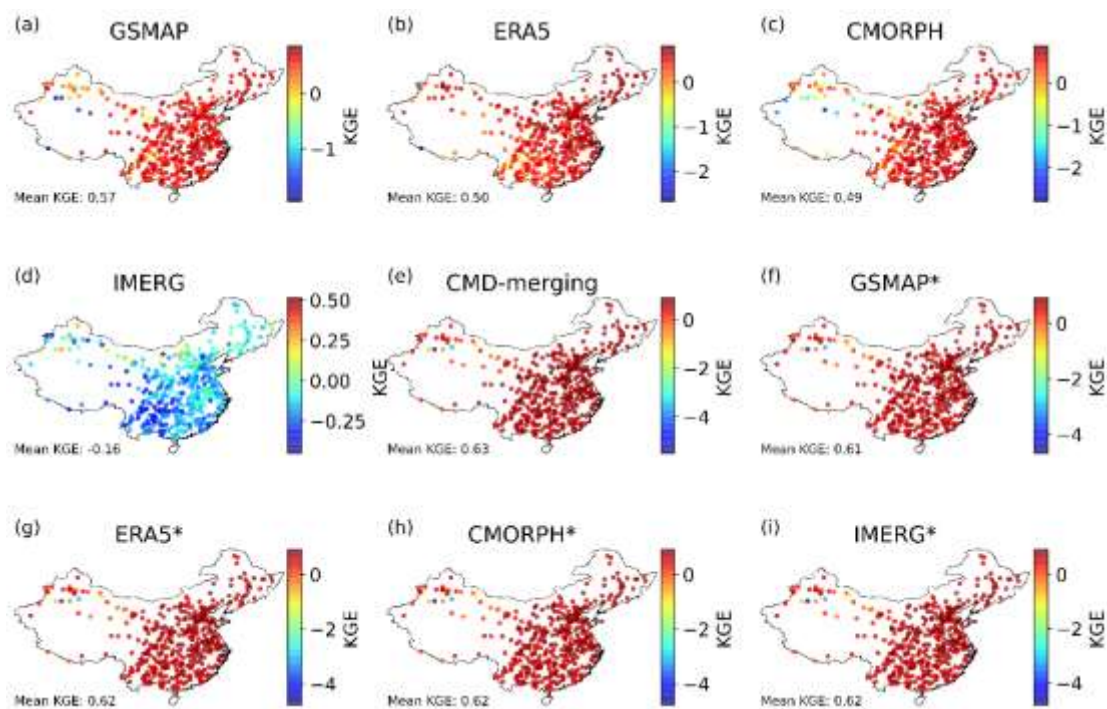
**Figure S1.** Spatial patterns of mean CC values during 2017-2021 of different precipitation datasets in mainland China. \* denotes the individual downscaled precipitation product.



**Figure S2.** Spatial patterns of mean RMSE values during 2017-2021 of different precipitation datasets in mainland China. \* denotes the individual downscaled precipitation product.



**Figure S3.** Spatial patterns of mean BIAS values during 2017-2021 of different precipitation datasets in mainland China. \* denotes the individual downscaled precipitation product.



**Figure S4.** Spatial patterns of mean KGE values during 2017-2021 of different precipitation datasets in mainland China. \* denotes the individual downscaled precipitation product.