

Supplementary Materials

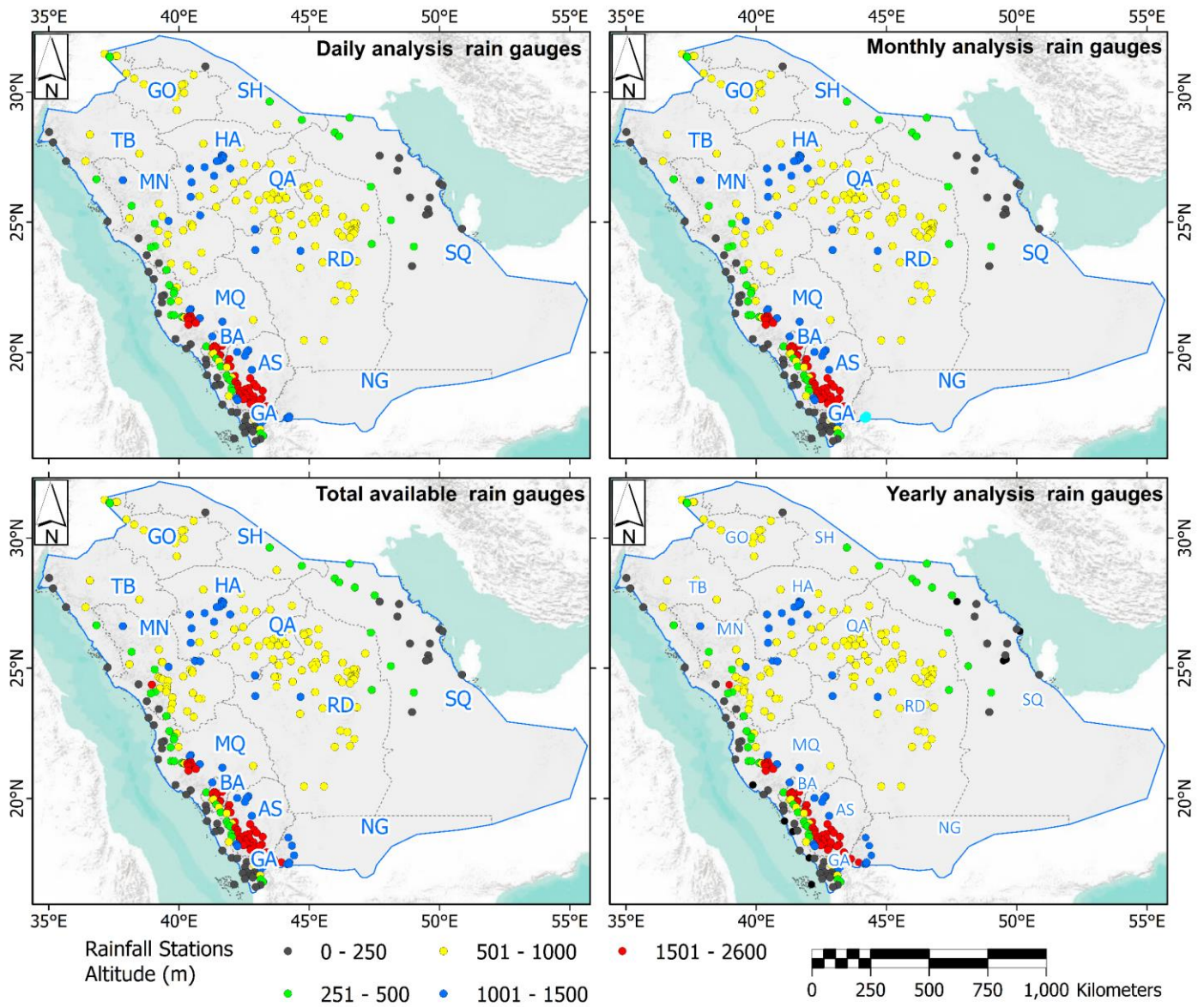


Figure S1. The distribution of the selected rain gauges for each analysis period

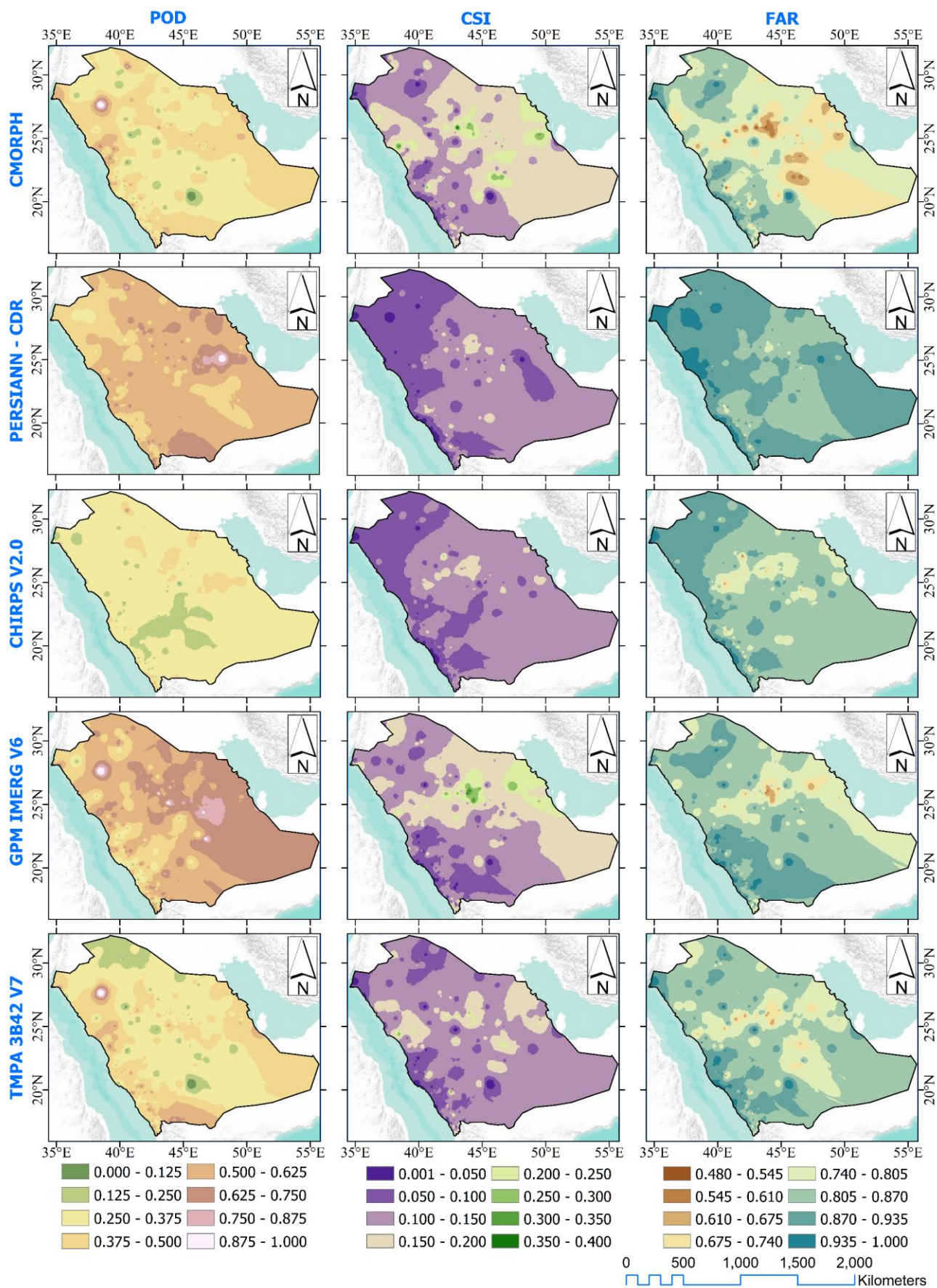


Figure S2. Spatial distribution of categorical metrics (POD, CSI, and FAR) over the study area.

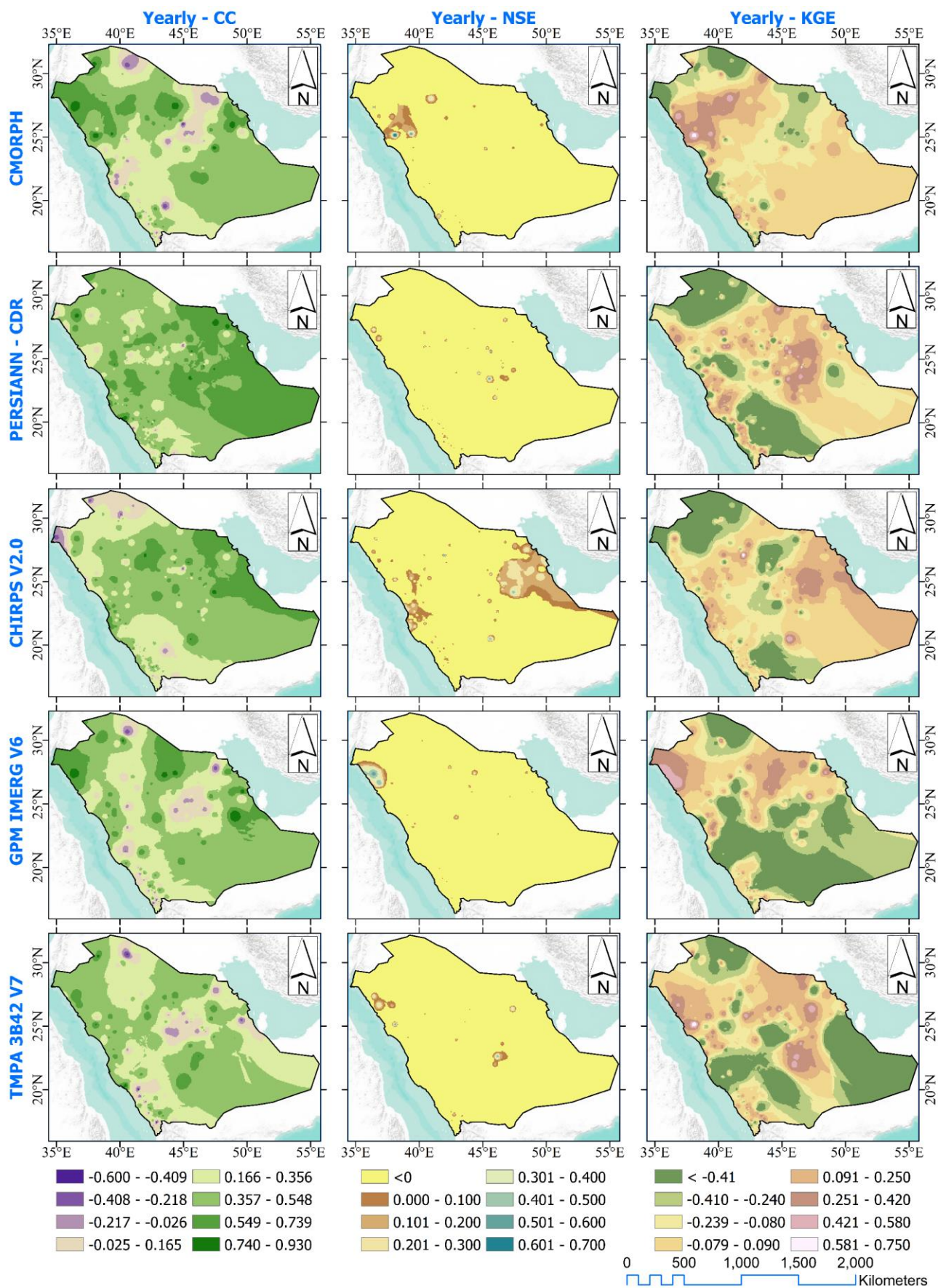


Figure S3. Spatial distribution of yearly statistical quantitative metrics (CC, NSE, and KGE) over the study area.

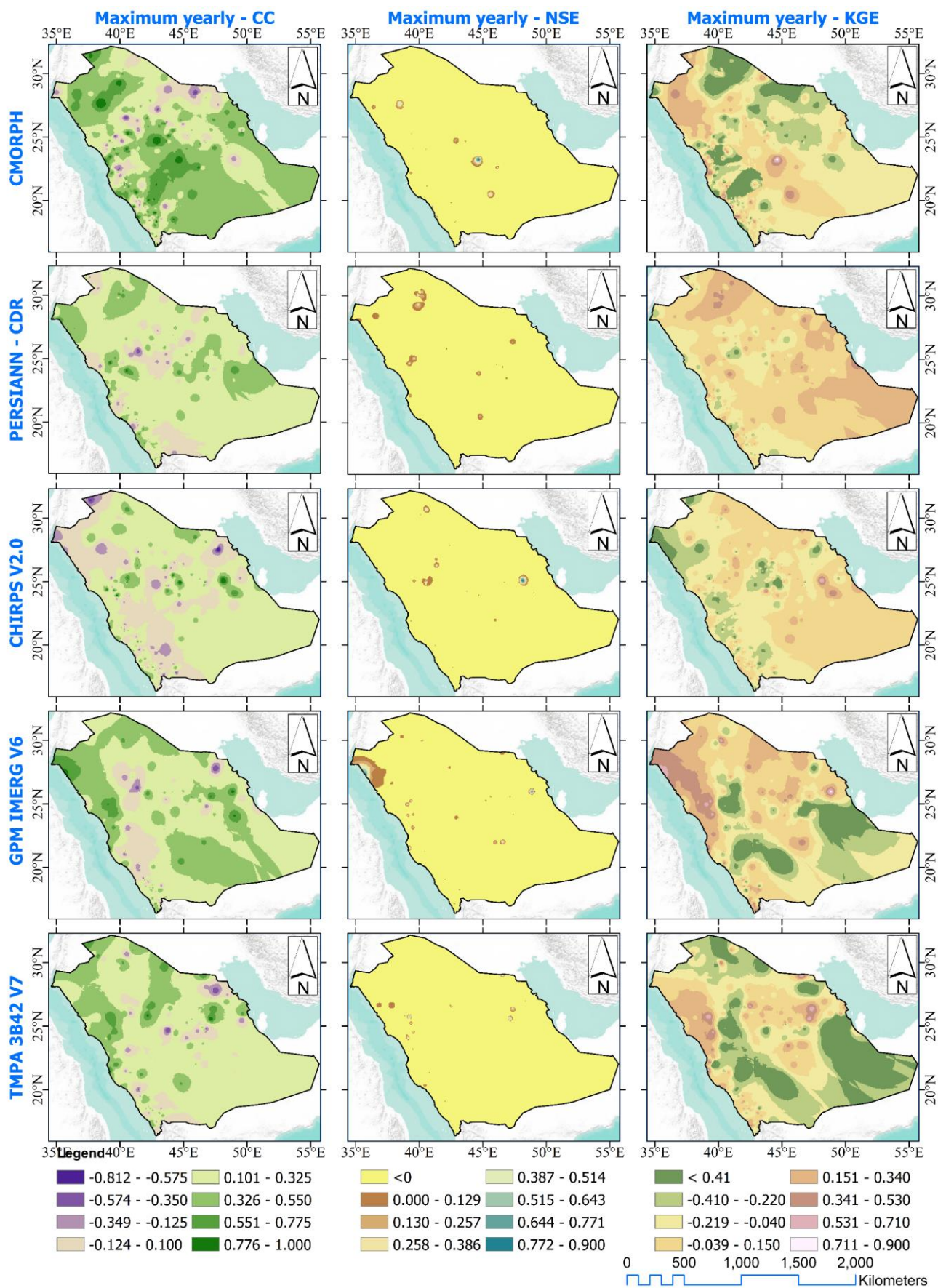


Figure S4. Spatial distribution of max. yearly statistical. quantitative metrics (CC, NSE, and KGE) over the study area.

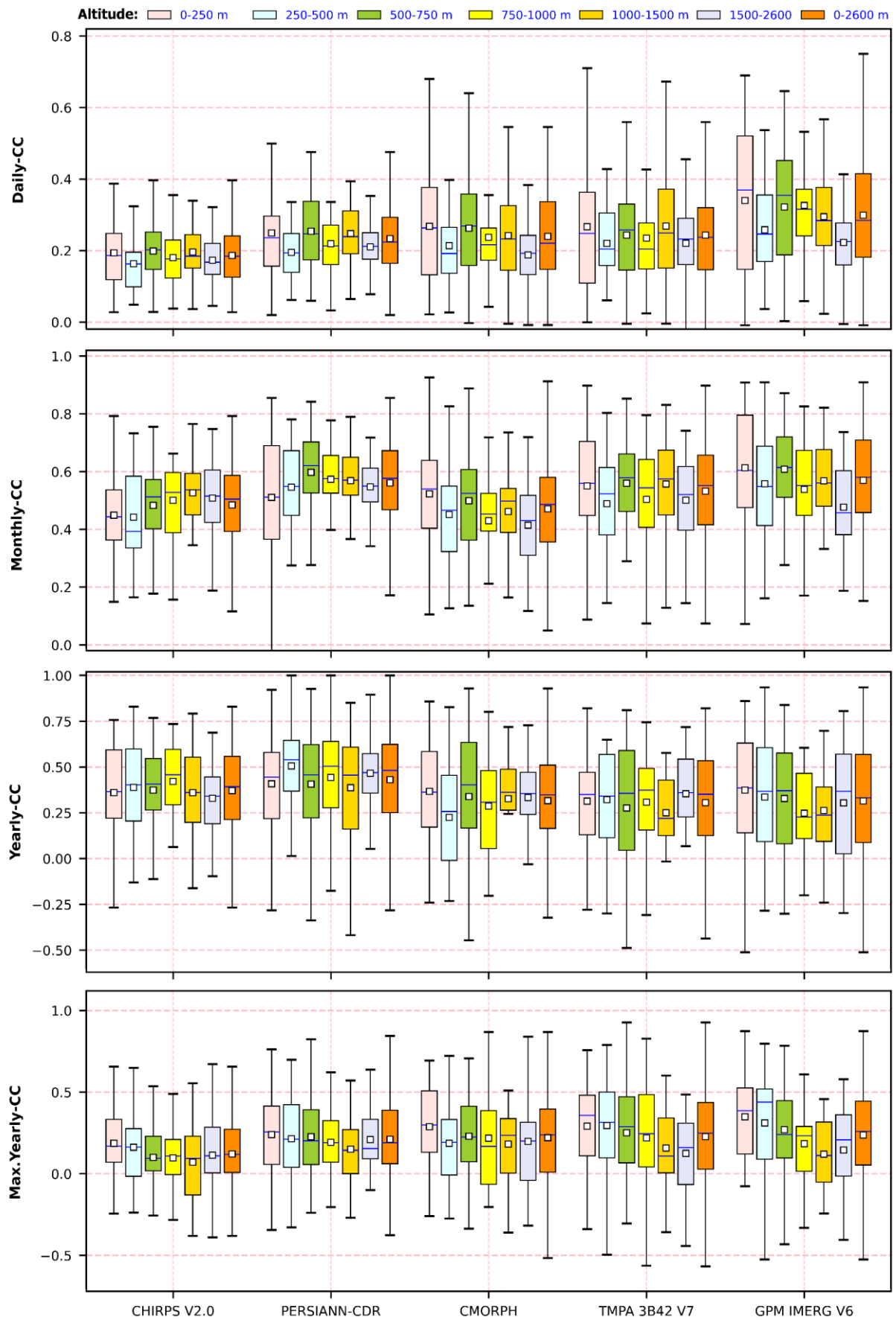


Figure S5. Variation of correlation coefficient with gauge altitude for each analysis duration.

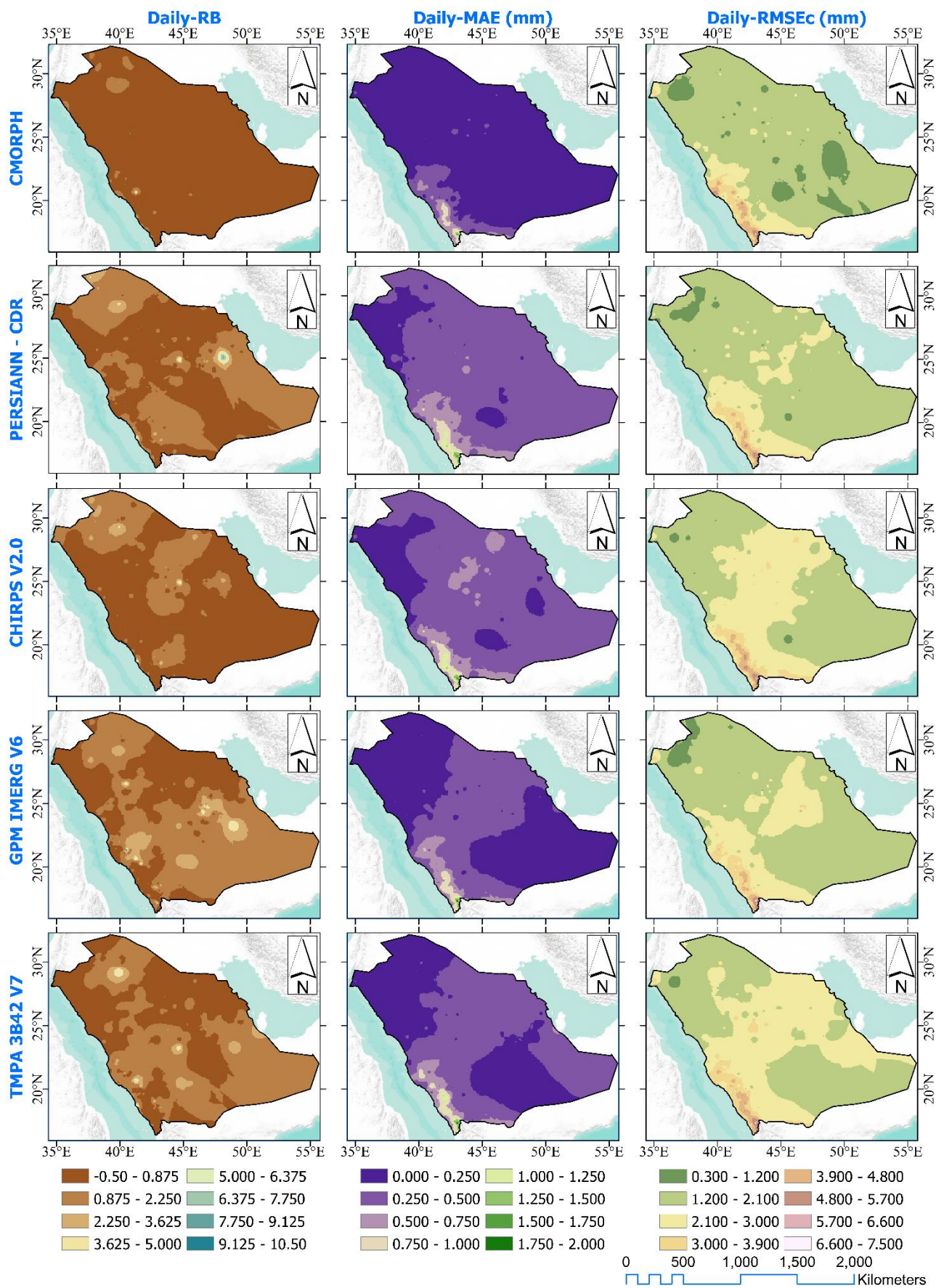


Figure S6. Spatial variation of daily RB, MAE, and **RMSEc** over the study area.

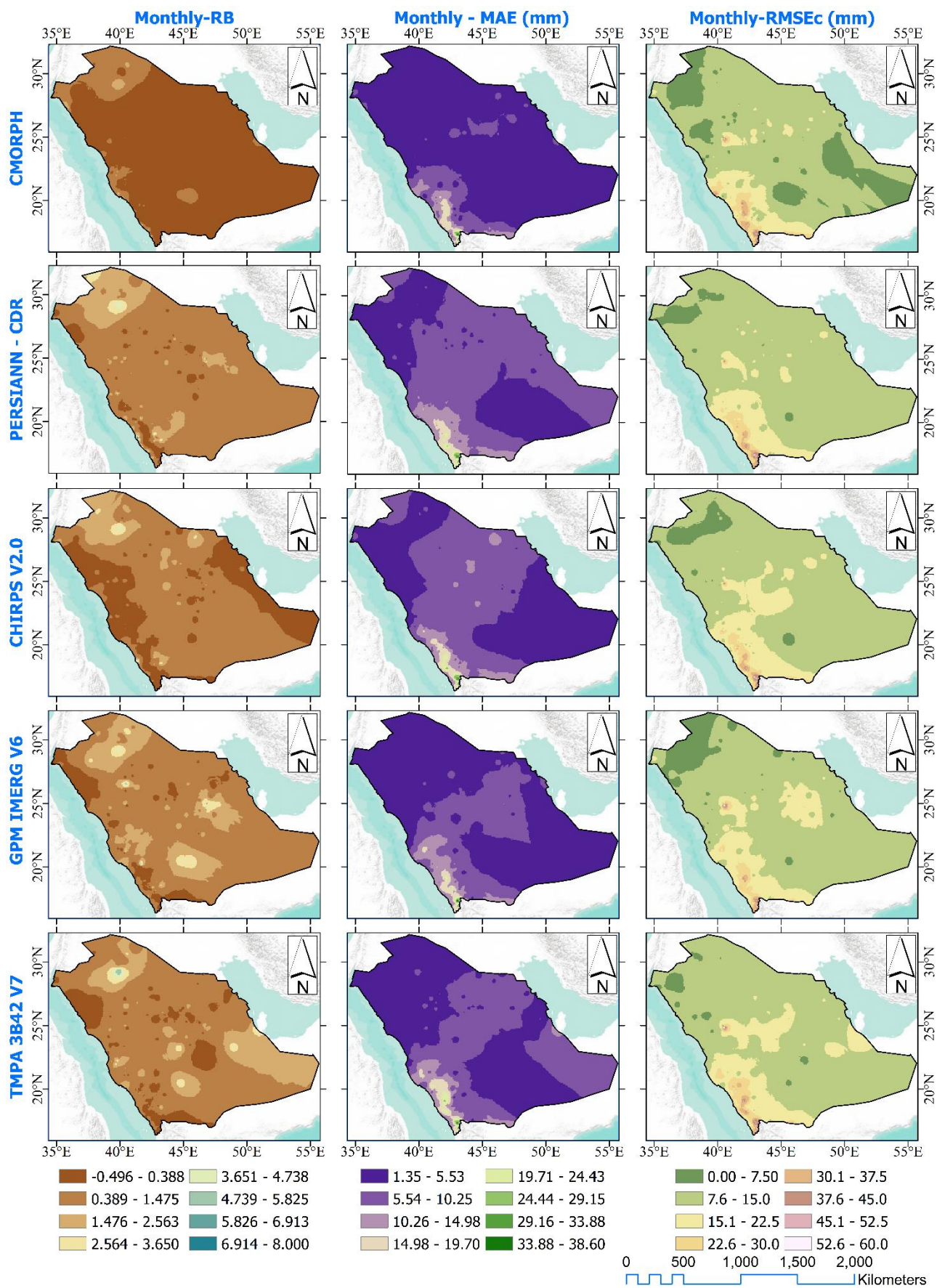


Figure S7. Spatial variation of monthly RB, MAE, and **RMSEc** over the study area.

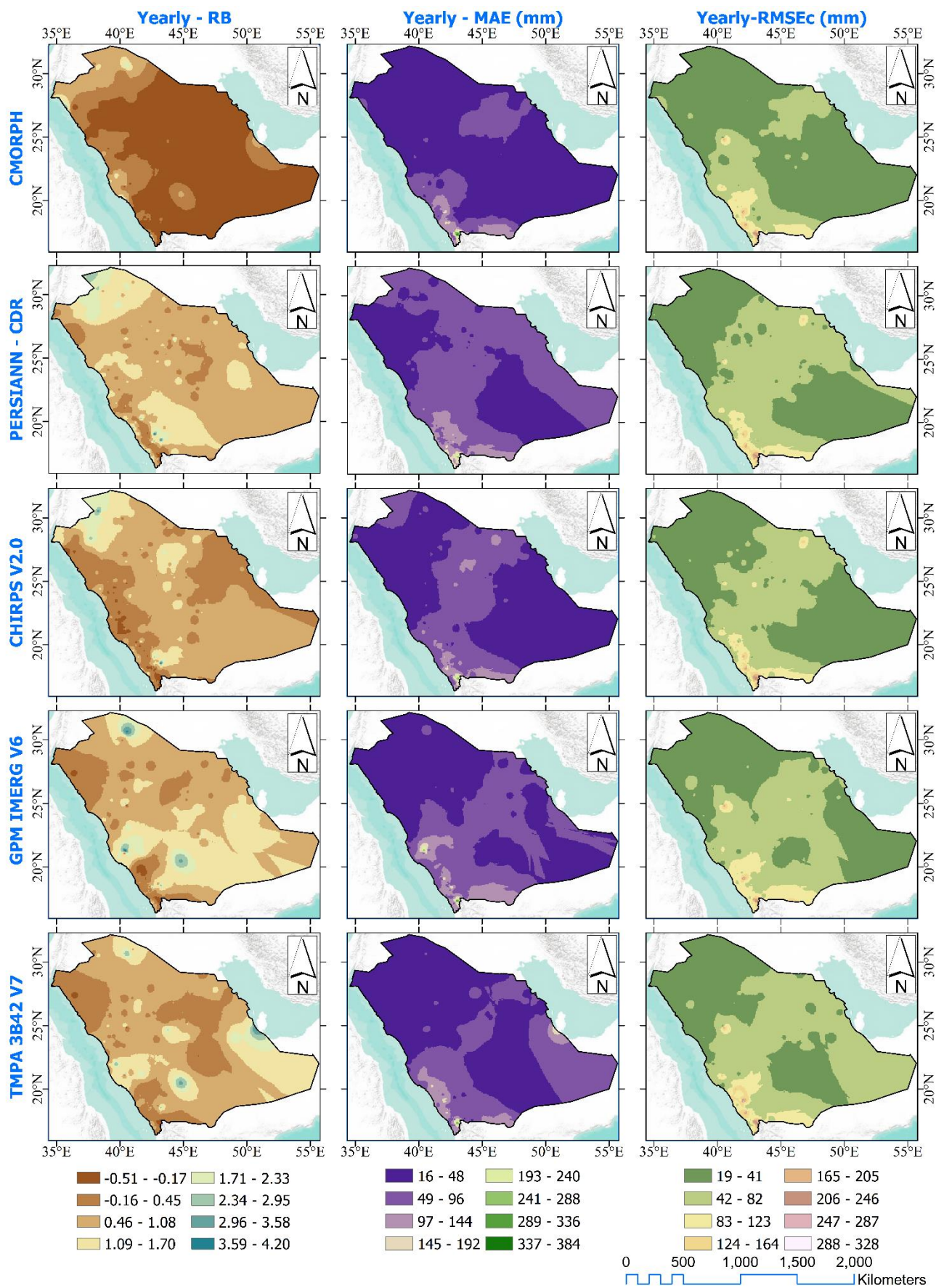


Figure S8. Spatial variation of yearly RB, MAE, and **RMSEc** over the study area.

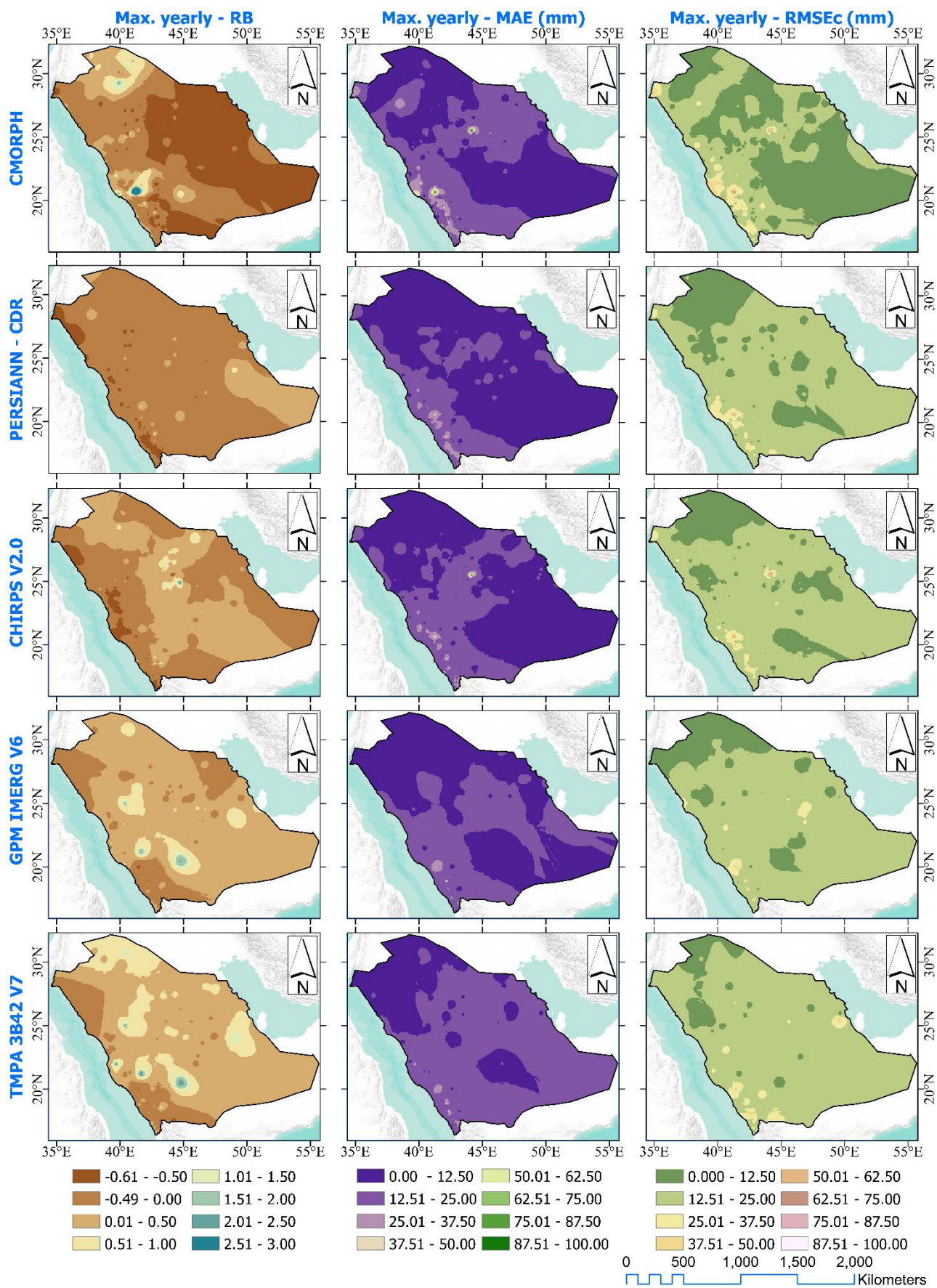


Figure S9. Spatial variation of maximum yearly RB, MAE, and **RMSEc** over the study area.

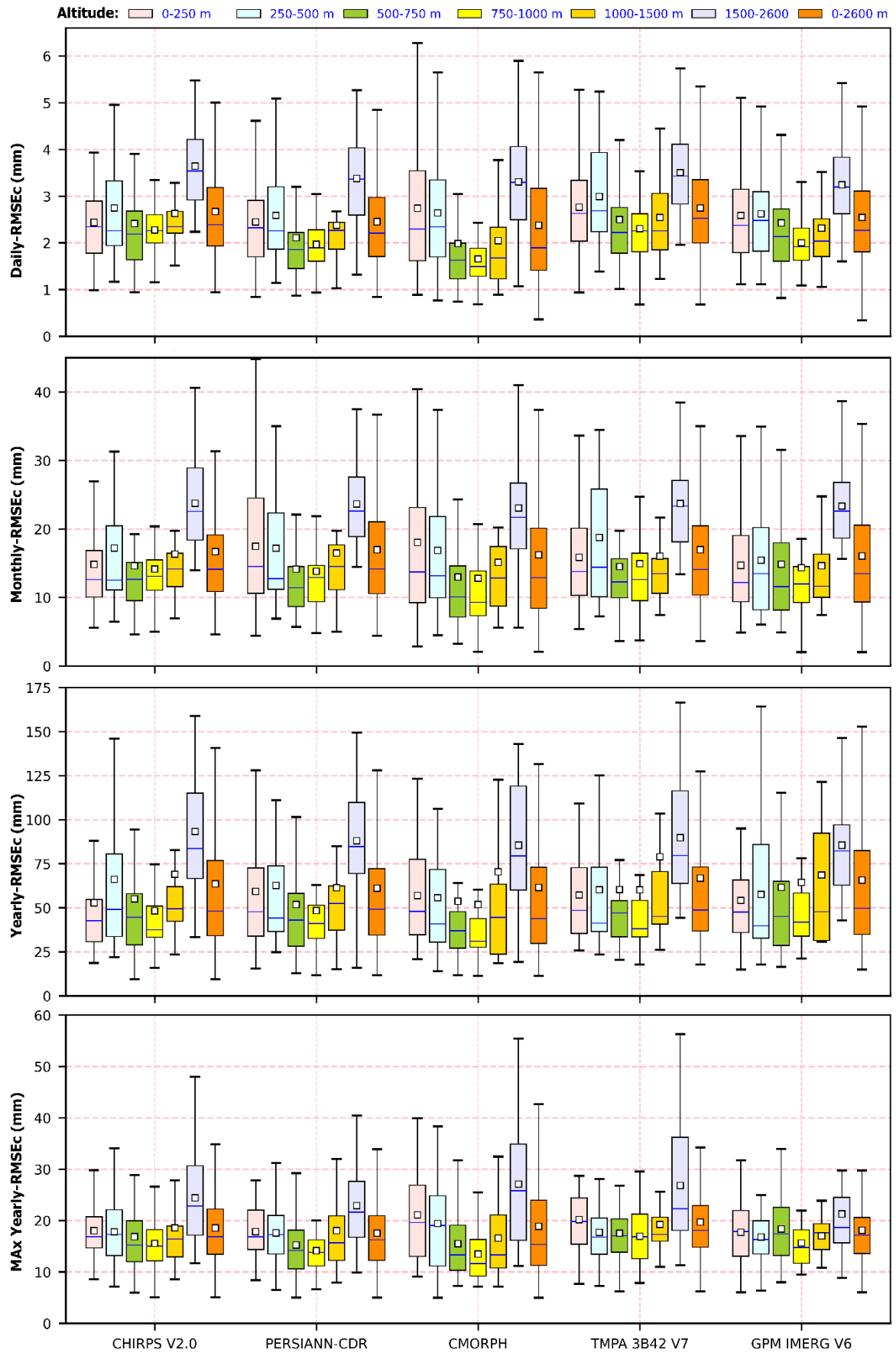


Figure S10. Variation of **RMSEc** with gauge altitude for each analysis duration.

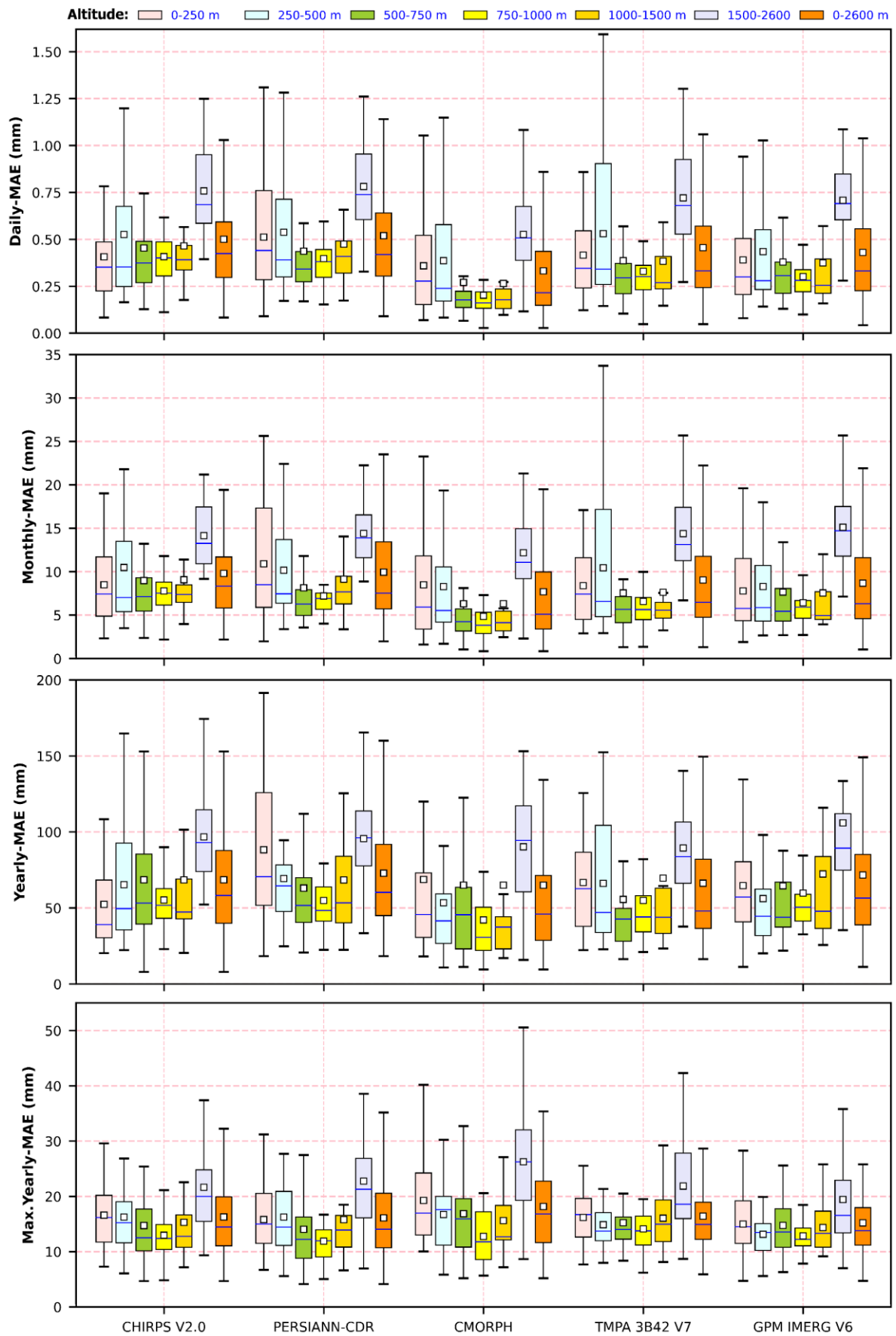


Figure S11. Variation of MAE with gauge altitude for each analysis duration.

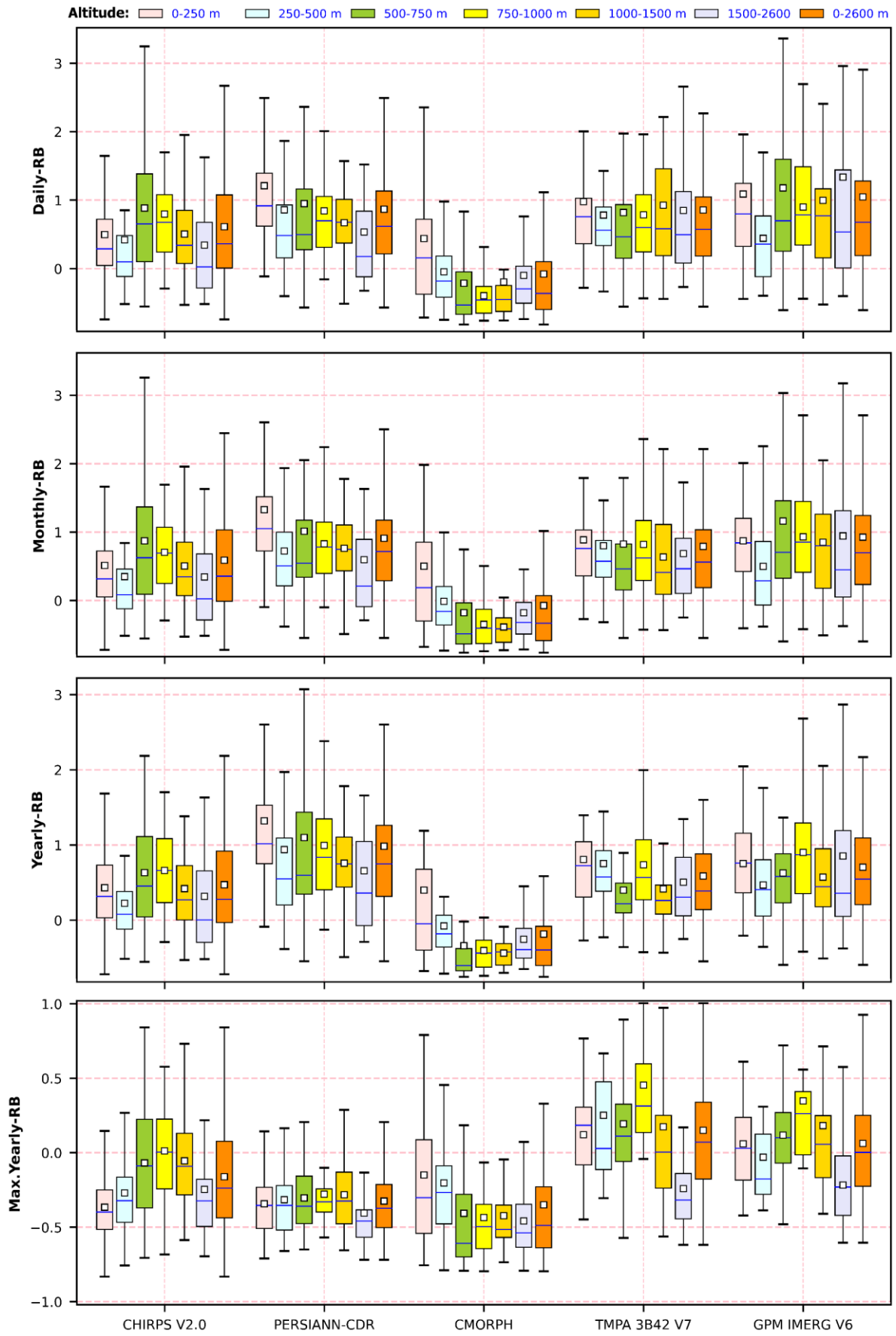


Figure S12. Variation of RB with gauge altitude for each analysis duration.