

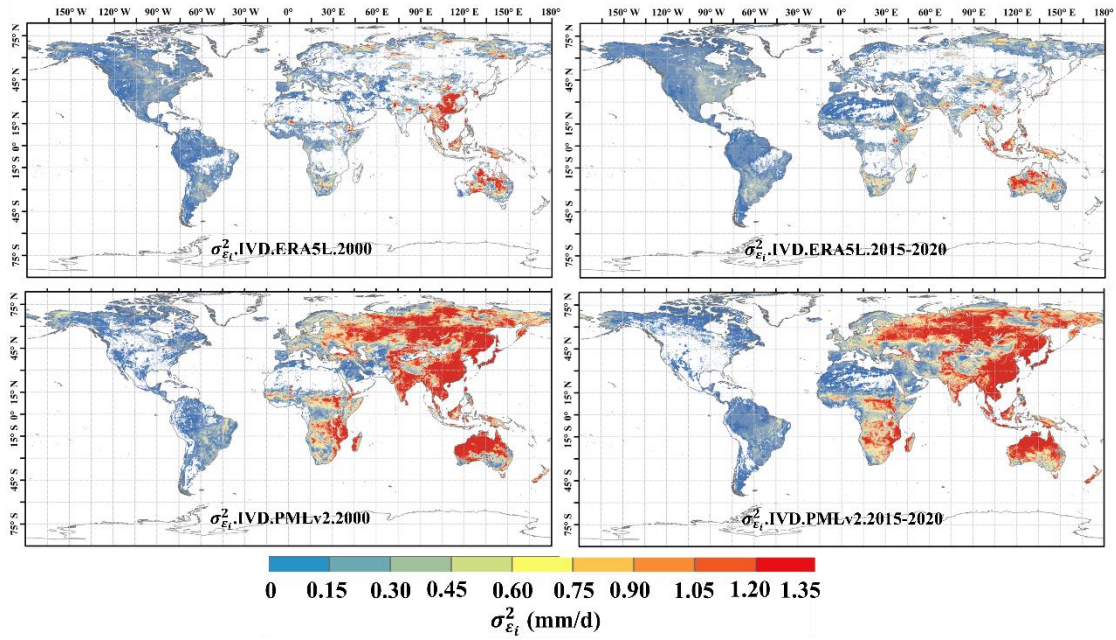
**CAMELE: Collocation-Analyzed Multi-source Ensembled Land  
Evapotranspiration Data**

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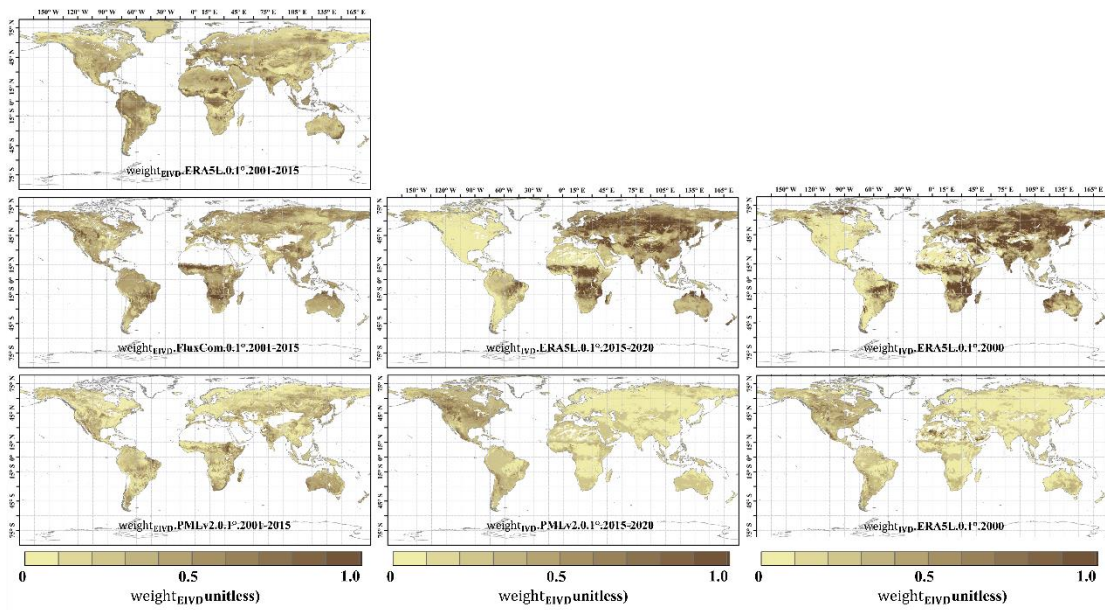
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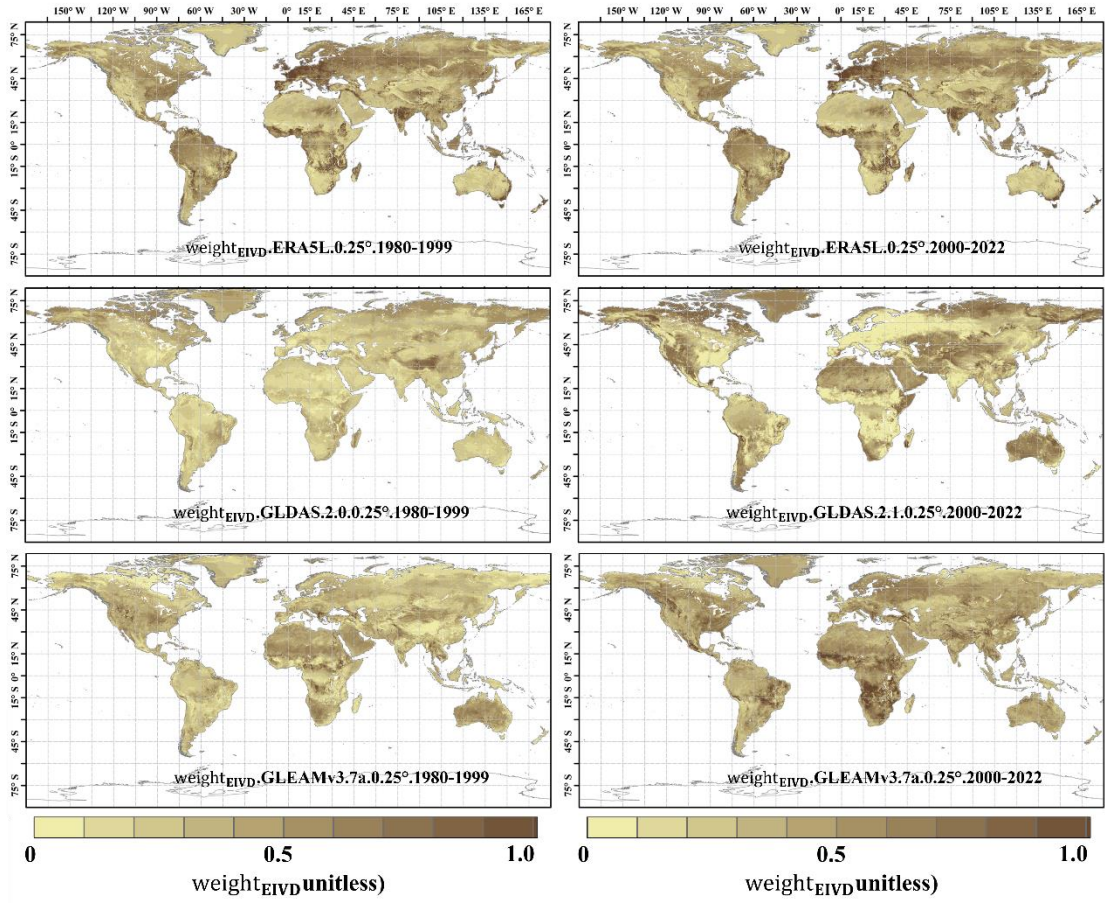
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**FIGURE.S1** Global distribution of absolute error variances ( $\sigma_{\epsilon_i}^2$ ) of ERA5L and PMLv2 using IVD at a resolution of  $0.1^\circ$  during the period 2000 and 2015-2020.



**FIGURE.S2** Global distribution of optimal weights at  $0.1^\circ$ .



**FIGURE.S3** Global distribution of optimal weights at 0.25°.