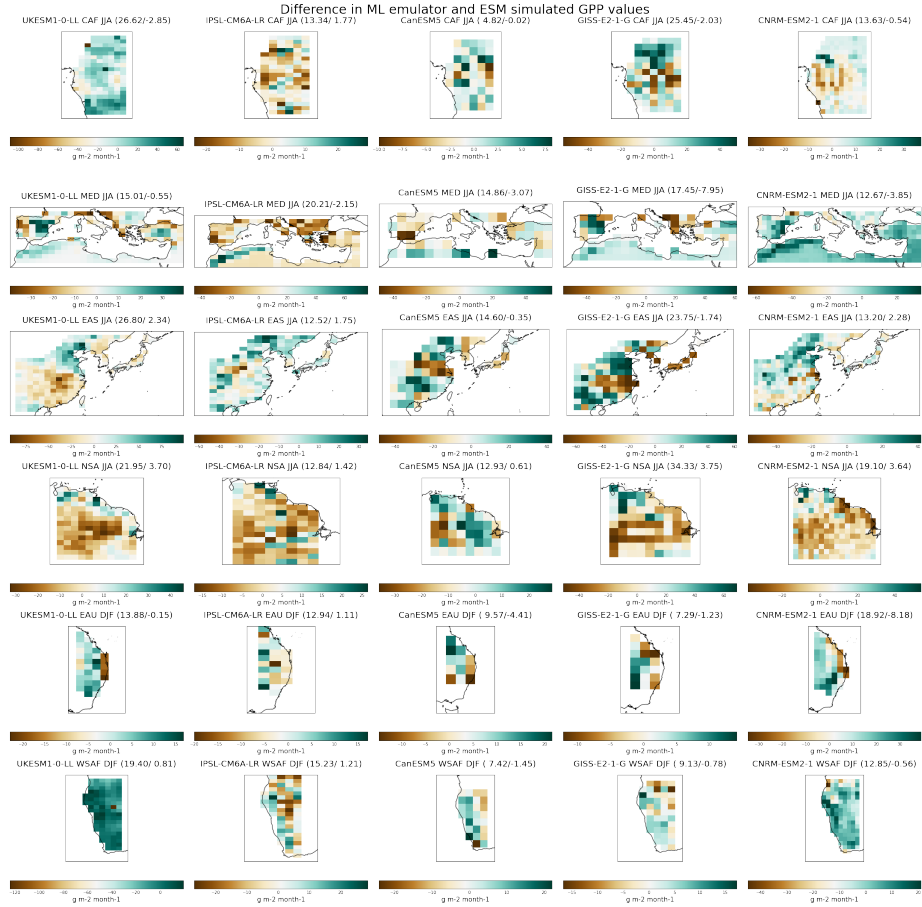
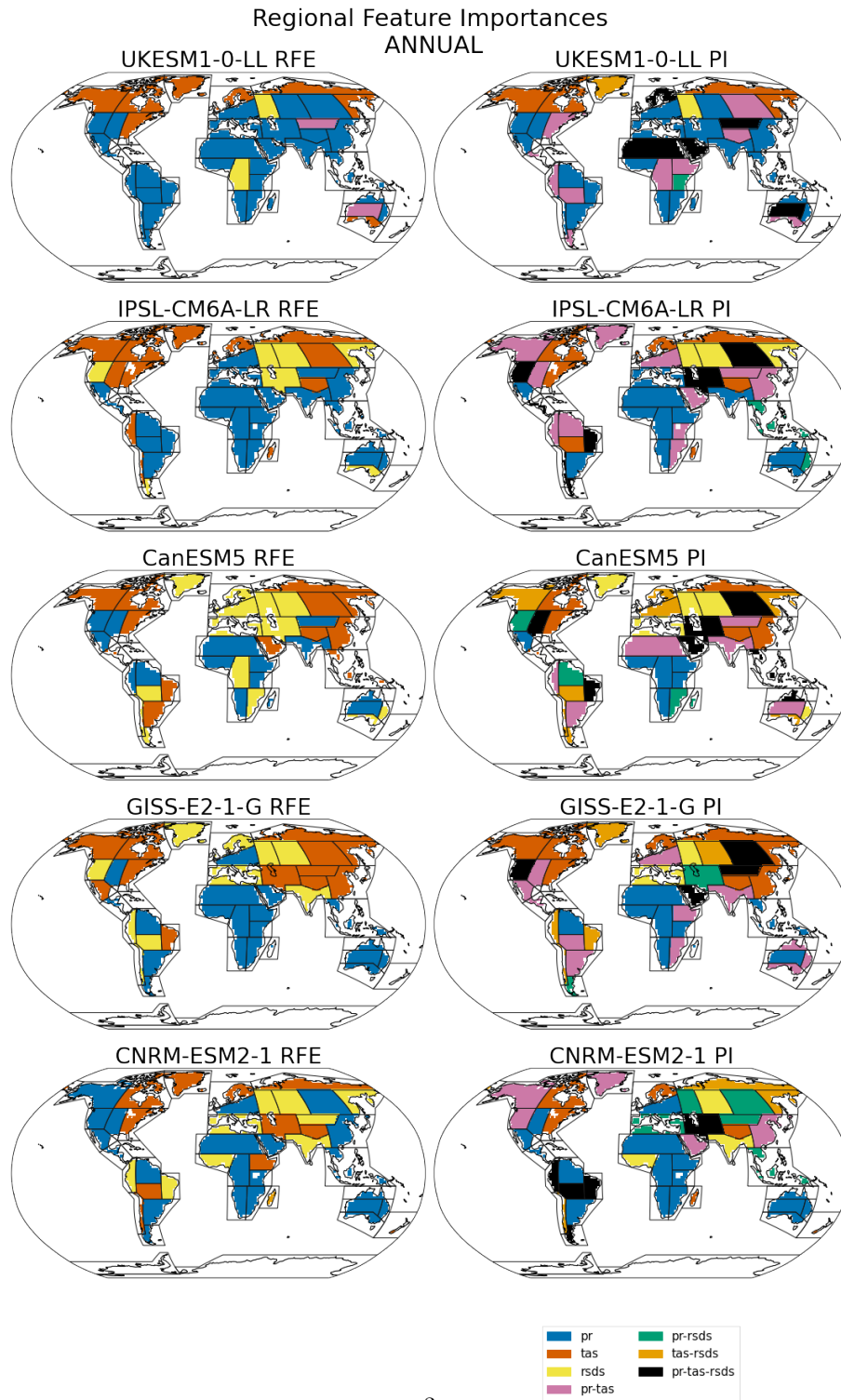


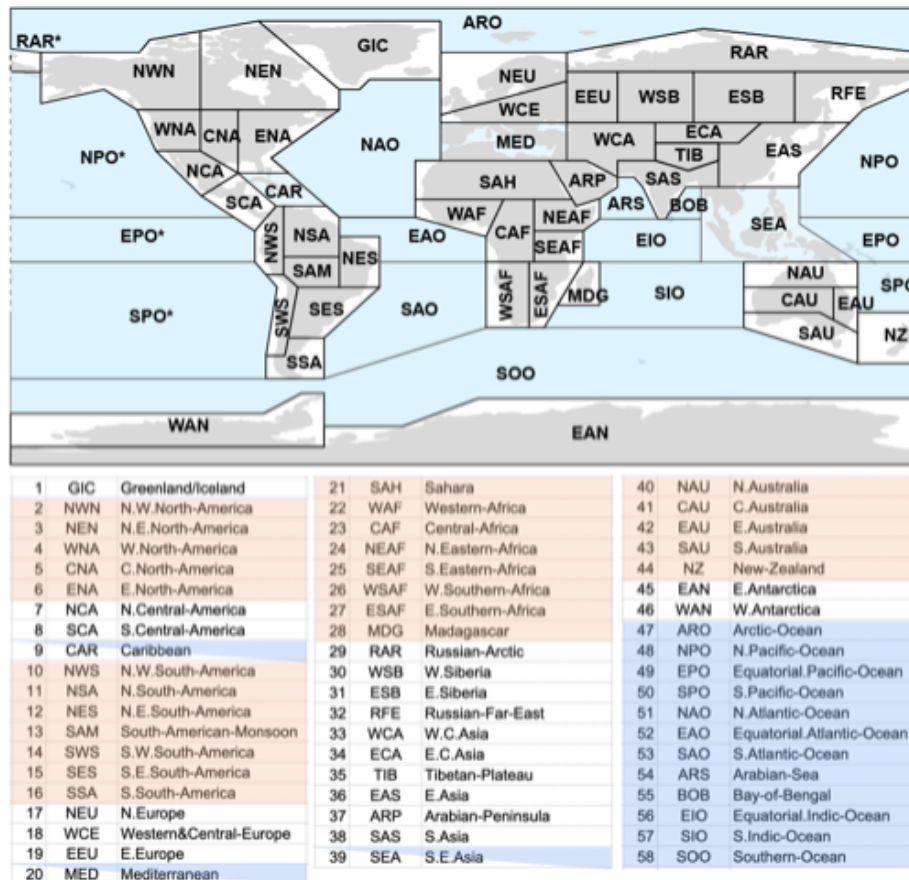
Evaluating Vegetation Modelling in Earth System
Models with Machine Learning Approaches
(Supplementary Figures for submission to the
Journal of Advances in Modeling Earth Systems
(JAMES))

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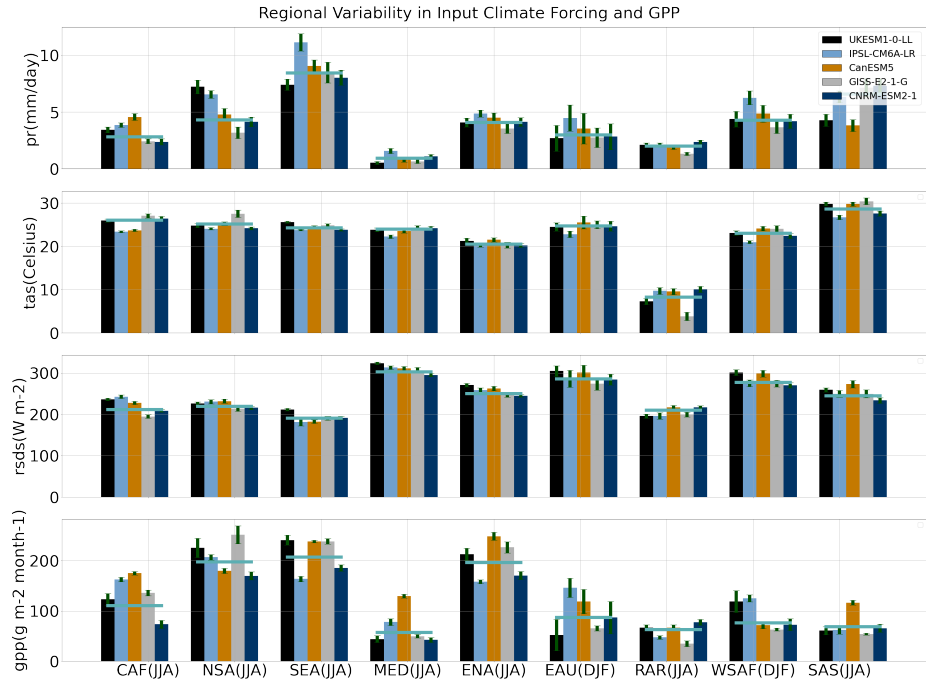


S1: Gross Primary Productivity values estimate by the ML emulator for a selection of IPCC regions. Every column shows the difference between the ML emulator output and the GPP simulated by a given ESM. The RMSE error is shown at the top of each region alongwith the difference in area averaged mean between the ML emulator estimates and the ESM simulated values. All units are in g/m²/month.





S3: IPCC AR 6 reference regions and their acronyms.



S4: A comparison of means and standard deviations of the climate variables or input forcings considered important for GPP. Each row shows the mean and standard deviation for a single variable with colored bars representing individual models grouped by regions. Vertical lines overlayed on the colored bars shows the standard deviation and the horizontal line shows the multimodel mean.