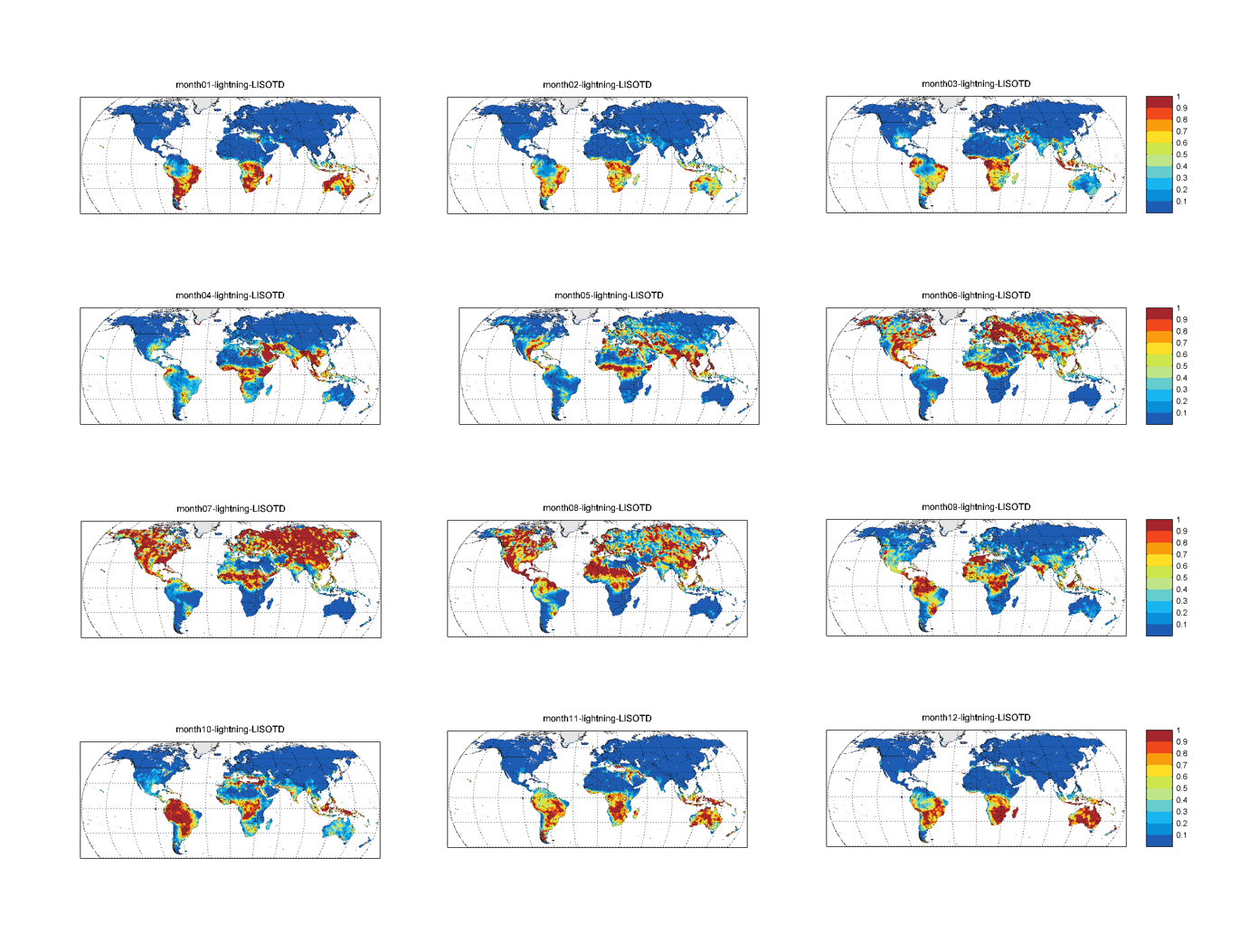
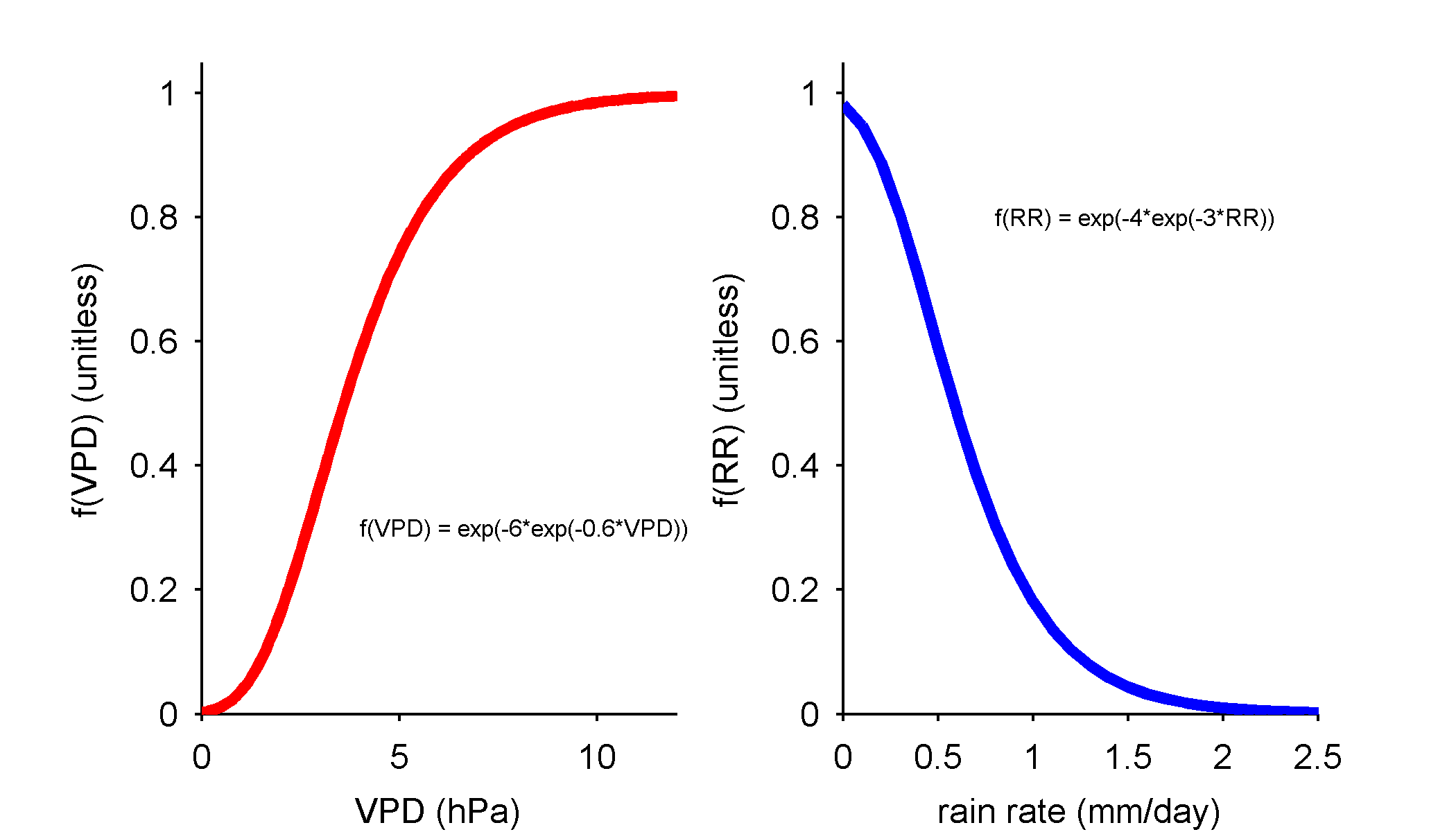
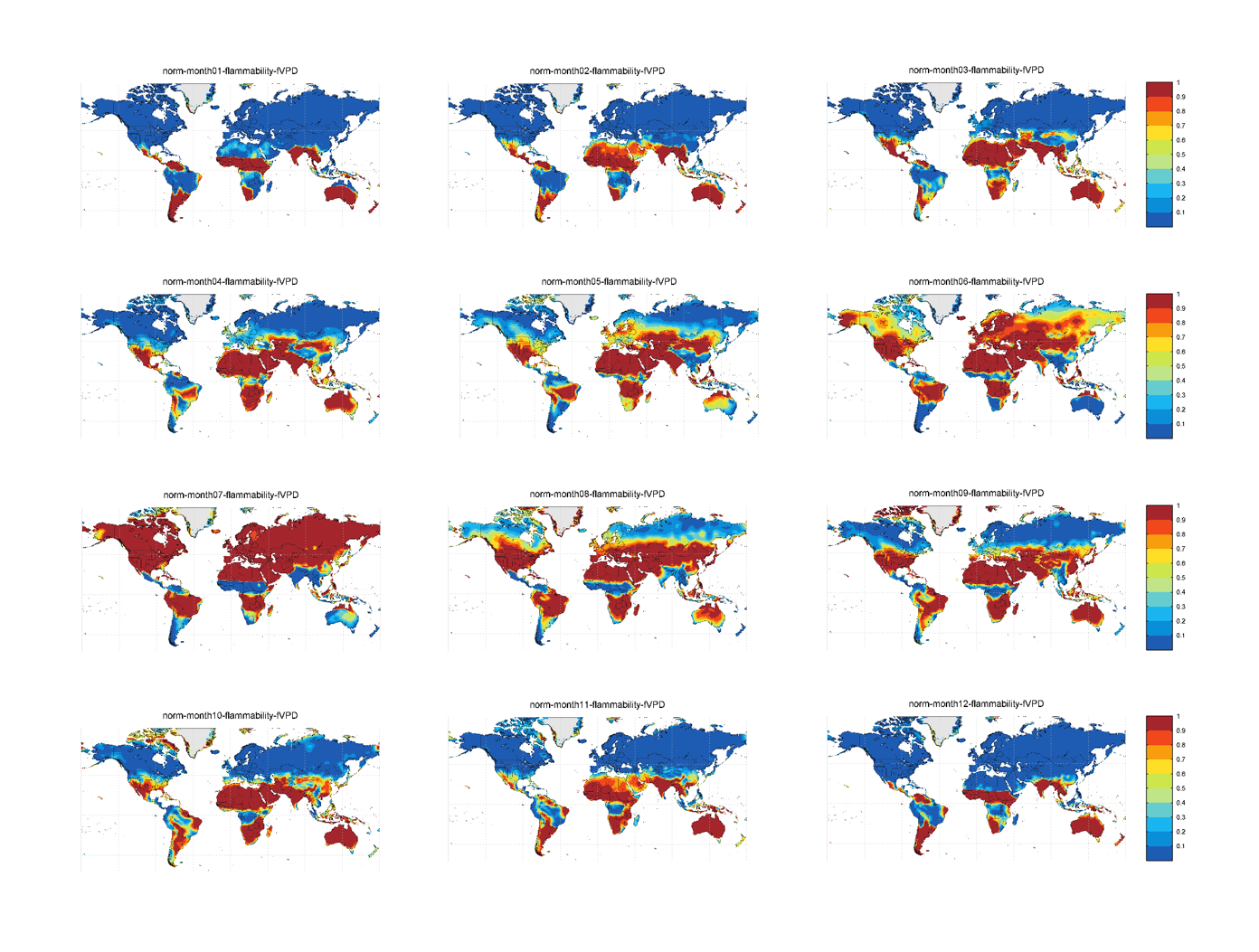
**Figure S2.1**. Mean monthly lightning from NASA OTD/LIS normalized to the maximum value for a given grid cell during the year. Red values show the month with the most lightning for that location. Ocean data is masked.



**Figure S2.2.** Functional representations of the dependence of flammability on vapor pressure deficit (VPD). The functional form is a Gompertz function constrained to values between 0 and 1.



**Figure S2.3.** Mean monthly flammability calculated as a function of mean monthly vapor pressure deficit (VPD). Red values show the month with the highest climatological flammability relative to that location, and blue values show the lowest flammability.



**Figure S2.4.** Results of the logistic regression using LFP (as described in the manuscript) scaled to the modeled Fire Return Interval (FRI) from Pfeiffer et al. (2013) (their Figure 11). The scaling calculation is where the maximum FRI is 1000 years and thus LFPscaled is zero when FRI is maximum. Figures are otherwise the same as Figures 4-5 in the main text.

