



Supplement of

Terrestrial water loss at night: global relevance from observations and climate models

Ryan S. Padrón et al.

Correspondence to: Ryan S. Padrón (ryan.padron@env.ethz.ch)

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Figure S1. NWL map of the central 90 % spread of the climate model ensemble, i.e. the difference between the 95th percentile and the 5th percentile. Desert regions and Greenland are masked.



Figure S2. Distribution across all grid cells (omitting desert regions and Greenland) of the normalized ranking of each climate model according to simulated NWL. A normalized ranking of 1 corresponds to the model with the highest NWL, while a normalized ranking of 0.5 indicates that a model ranked in position 13 out of the 26 analyzed models.



Figure S3. Map of the central 90 % spread of the climate model ensemble, i.e. the difference between the 95th percentile and the 5th percentile, for projected changes in NWL between the period 2081–2100 and the period 1976–2005. Desert regions and Greenland are masked.



Figure S4. Seasons with highest and lowest NWL on average according to EC data from FLUXNET2015 (a, b) and to the multi-model mean of CMIP5 climate models (c, d). The defined seasons are December–February (DJF), March–May (MAM), June–August (JJA), and September–November (SON). Desert regions and Greenland are masked in the multi-model mean maps.