¹ Biases in Model-Simulated Surface Energy Fluxes During the Indian Monsoon Onset Period - Supplementary Information 2

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the date of receipt and acceptance should be inserted later 7

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Fig. S1

Diurnal variation of GLDAS-simulated *H*, *LE*, R_{net} , and G_s for the study period for **a** 2016 and **b** 2017. The solid lines represent the mean values, while the shaded areas represent the standard deviations



Fig. S2

Time series of observed and offline Noah-simulated **a** H, **b** LE, **c** G_s , and **d** R_{net} for the study period in 2016. The observed values are represented by dots while the modeled runs are shown using solid lines. The dates are in the format, mm-dd



Fig. S3

Time series of observed and offline Noah-simulated **a** H, **b** LE, **c** G_s , and **d** R_{net} for the study period in 2017. The observed values are represented by dots while the modeled runs are shown using solid lines. The dates are in the format, mm-dd.

Table T1: Sensitivity of modeled *H* and *LE* to *LAI*. The model was run with the NoahEX3 configuration, with *LAI* increased and decreased by 0.2.

Change	2016	LAI increased by 0.2	LAI decreased by 0.2	2017	LAI increased by 0.2	LAI decreased by 0.2
Change in $H(\%)$ Change in $LE(\%)$		-0.29 2.80	0.33 -2.04		-0.44 3.06	0.50 -2.74