

**Table S1.** Recommended parameter values of the PT-JPL model.

<b>m1</b>	<b>b1</b>	<b>m2</b>	<b>b2</b>	<b><math>T_{opt}</math></b>	<b><math>\beta</math></b>	<b><math>K_{Rn}</math></b>	<b><math>K_{PAR}</math></b>
1.3632	-0.048	1	-0.05	25	1	0.6	0.5

**Table S2.** The surface albedo  $\alpha$  and longwave emissivity  $\epsilon$  for the different land cover types.

Parameter	Land Cover Classification							
	crop	mix forest	grass	shrub	wetland	water	impervious surface	bare land
$\alpha$	0.15	0.15	0.25	0.25	0.25	0.5	0.35	0.35
$\epsilon$	0.96	0.99	0.95	0.95	0.96	0.99	0.94	0.94