

	Symbol	Process	Description	Units	Calibrated
Hydrological model	H_{\max}	WTD-moisture relation	Peat depth	mm	no
	Θ_{\min}	WTD-moisture relation	Porosity at maximum depth	$\text{m}^3 \text{ m}^{-3}$	no
	Θ_{\max}	WTD-moisture relation	Porosity at the surface	$\text{m}^3 \text{ m}^{-3}$	no
	Kc_d	Evapotranspiration (ET)	Crop coefficient for dormant season	—	yes (BCI)
	Kc_g	Evapotranspiration (ET)	Crop coefficient for growing season	—	yes (BCI)
	I_{\max}	Infiltration Sm to Se (ISe)	Maximum infiltration rates in Se	mm day^{-1}	yes (BCI)
	α_p	Percolation rate from Se (D)	Discharge coefficient of Se	day^{-1}	yes
	α_r	Runoff rate from Sm (R)	Discharge coefficient of Sr	day^{-1}	yes
	α_o	Overland flow from Sr (O)	Discharge coefficient of So	day^{-1}	yes
DOC model	SOC	DOC module	Mass of TOC in peat profile	mg C mm^{-1}	no
	DOC_{rain}	DOC module	DOC concentration in rain water	mg L^{-1}	no
	k_{prod}	DOC module	DOC production coefficient	day^{-1}	yes
	k_{loss}	DOC module	DOC loss coefficient	day^{-1}	yes