Symbol	Definition	Description
$\tilde{h}_{e,i}$	$h_{e,i}/h^{\text{rest}}$	Population mean soma dimensional electric potential
$\tilde{I}_{ee,ei}$	$I_{ee,ei}\,\gamma_e/(G_e\exp(1)S^{\max})$	Total $e \to e$, $e \to i$ input from excitatory synapses
$\tilde{J}_{ee,ei}$	$\tau\frac{dI_{ee,ei}}{dt}\gamma_e/(G_e\exp(1)S^{\max})$	Time derivative of the total $e \to e$, $e \to i$ input from excitatory synapses
$\tilde{I}_{ie,ii}$	$I_{ie,ii}\,\gamma_i/(G_i\exp(1)S^{\max})$	Total $i \to e$, $i \to i$ input from inhibitory synapses
$\tilde{J}_{ie,ii}$	$\tau\frac{dI_{ie,ii}}{dt}\gamma_i/(G_i\exp(1)S^{\max})$	Time derivative of the total $i \to e$, $i \to i$ input from inhibitory synapses
$\tilde{\phi}_{e,i}$	$\phi_{e,i}/S^{\max}$	Long range (corticocortical) input to e,i populations
$\tilde{\psi}_{e,i}$	$\tau\frac{d\phi_{e,i}}{dt}/S^{\max}$	Time derivative of long range (corticocortical) input to e,i populations
$\tilde{t}$	t/τ	Dimensionless time

Dynamical variable definitions for the ODEs neural macrocolumn model. The dimensionless variables (left column) are defined in terms of the dimensional symbols (middle column) found in Table 1 of (Steyn-Ross, Steyn-Ross, Sleigh, & Whiting, 2003). The variables are described in the right column. Subscripts e and i refer to excitatory and inhibitory, respectively.