Notation	Default value (unit)	Definition
а	$0.5\mathrm{m}^{-1}$	Unsaturated exponent in Gardner's model for soil characteristics
(b, B)	$(10 \mathrm{m}, 20 \mathrm{m})$	Initial thicknesses of unsaturated and saturated zones, respectively
C	None	Specific moisture capacity
d	50 m	Shortest distance between the edge of recharge area and observation point
h	None	Hydraulic head in saturated zone
I	$0.1\mathrm{m}\mathrm{d}^{-1}$	Recharge rate
$k_{ m r}$	None	Relative hydraulic conductivity
(K_x, K_y, K_z)	$(10\mathrm{m}\mathrm{d}^{-1},10\mathrm{m}\mathrm{d}^{-1},1\mathrm{m}\mathrm{d}^{-1})$	Saturated hydraulic conductivity in x , y , and z directions, respectively
(l, w)	50 m	Half of width of recharge area in x and y directions, respectively
$(S_{\rm s},S_{\rm y})$	$(10^{-5} \mathrm{m}^{-1},0.2)$	Specific storage and specific yield, respectively
t	None	Time
(x, y, z)	None	Cartesian coordinates
ϕ	None	Hydraulic head in unsaturated zone
$(\overline{b},\overline{l},\overline{w})$	(0.5, 1, 1)	(b/B, l/d, w/d)
$(\overline{h},\overline{\phi},\overline{t})$	None	$(h/B, \phi/B, K_X t/(S_S d^2))$
$(\overline{x}, \overline{y}, \overline{z})$	None	(x/d, y/d, z/B)
$(\alpha, \kappa_{\gamma}, \kappa_{z})$	(10, 1, 0.625)	$(aB, K_y/K_x, K_z d^2/(K_x B^2))$
(ξ,σ)	(0.1, 1000)	$(I/K_z, S_y/(S_sB))$