Input parameter	Description	Values (using ¹⁸ O as a tracer)	Parametric sources
		as a tracer)	
h	Relatively humidity	0.63	Measured by the humidity meter
T (°C)	Water temperature	15.66	Monitored with divers
$\delta_{\rm surface}$ (¹⁸ O)% $_{o}$	Surface water isotopic compositions	-12.45	Average value of surface inflow samples
$\delta_{ m gw}~(^{18}{ m O})\%_o$	Groundwater isotopic compositions	-11.97	Average value of porewater samples
$\delta_{\rm L}~(^{18}{ m O})\%_o$	Lake water isotopic compositions	-12.54	Average value of Ximen Co Lake water samples
$F_{\rm gw}~({\rm mmd^{-1}})$	LGD rates	14.18	Calculated based on the ²²² Rn mass balance model
ε^* (¹⁸ O)%o	Effective equilibrium isotopic enrichment factor	10.12	Eqs. (S13)–(S14)
$C_{ m k}~(^{18}{ m O})\%_o$	Kinetic constant for ¹⁸ O	14.2	Constants based on the evaporating experiment
$\varepsilon_{ m k}~(^{18}{ m O})\%_{o}$	Kinetic enrichment factor	5.2	From Eq. (S15)
ε (¹⁸ O)‰	Total isotopic enrichment factor	15.33	The sum of ε^* and $C_{\mathbf{k}}$
$\alpha^* (^{18}O)\%_0$	Effective isotopic equilibrium factor	1.01	$\alpha^* = 1 + \varepsilon^*$
$\delta_{\mathrm{a}}~(^{18}\mathrm{O})\%_{\mathrm{o}}$	Isotopic composition of ambient air	-23.12	Estimated with δ_{in} and δ_{a}
δ_{in} (¹⁸ O) ‰	Isotopic composition of surface inflow water	-13.41	Average value of surface inflow water
δ_{E} ($^{18}\mathrm{O}$)% $_{o}$	Isotopic compositions of evaporating vapour	-35.1	From Eq. (S12)
$[Cl^-]_{in} (mgL^{-1})$	Chloride concentrations in surface inflow water	0.91	Filed data
$[Cl^-]_L (mgL^{-1})$	Chloride concentrations in lake water	1.02	Filed data
$[Cl^-]_{gw} \ (mgL^{-1})$	Chloride concentrations in groundwater	1.48	Filed data