

Radioisotopes in Hydrology

➤ A number of radioisotopes are used in hydrological studies.

➤ Determining the age of ground water is important for several Reasons -

- Groundwater age translates roughly to circulation and renewability, which is critical for water resource planning.
- The age of groundwater relates also to its vulnerability to contamination.
- Modern groundwaters will have more direct pathways from the surface, facilitating infiltration of contaminants from surface activities in the recharge area. Old groundwaters are isolated from the surface and perhaps less vulnerable to anthropogenic contamination.

TABLE 8.1

Tracers for Age Dating Groundwaters

Isotope	Half Life	Dependence Half Time	Source (Target Nuclide)	Typical Concentration
Modern Groundwaters				
^3H	12.32 y	<1 y	Cosmogenic ($^3\text{H}_2$)	Steady state
Tracers, ^3H	12.32 y	<1 y	Thermoluminescent dosimeters	1000-10 ⁵ or 10 ⁶ cps
^3He	12.32 y		Cosmogenic (^3H)	1-10 pCi
$^3\text{H}_2$	12.32 y		Unknown, but evaporating	1-10 pCi/L increasing
$^3\text{H}_2\text{O}$	Stable	100 y	Electron-capture reactions	7 ppb, increasing
CFC	Stable	100-200 y	Anthropogenic emissions, constant	CFC-12: 100 ppb in 2000
Sub Modern Groundwaters				
$^3\text{H}_2$	120 y		Cosmogenic ($^3\text{H}_2$)	10-70 pCi/L
^3He	>12 y	>1 y	Cosmogenic (^3H)	1-100 pCi/L
Old Groundwaters				
^{14}C	5730 y	<1 y	Cosmogenic (^{14}C)	100 pCi/L, 1-10 pCi/L
$^{14}\text{C}_2$	22,300 y		Cosmogenic ($^{14}\text{C}_2$)	1-10 pCi/L
^{13}C	50,000 y	<1 y	Cosmogenic (^{13}C)	<100 pCi/L
			Subsurface (^{13}C)	$^{13}\text{C}/^{12}\text{C} = 989.8 \times 10^{-6}$
^{18}O	11.4 My	<1 y	Cosmogenic (^{18}O)	100,000 pCi/L
			Subsurface (^{18}O) (up to 1000)	>1000 pCi/L
^{16}O	Stable		Subsurface (^{16}O) and ^{18}O in decay	1,200,000 pCi/L
^{18}F	Stable		Subsurface (^{18}F)	0-100 pCi
^{19}F	Stable		Subsurface (^{19}F) (up to 1000)	0-100 pCi/L

Clark, 2015

Radioisotopes In Hydrology

Lingsheng Yao



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