

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	Typical Half Time	Source (Target Nucleus)	Typical Concentration
Modern Groundwaters				
^3H	12.32 y	<1 y	Cosmogenic ($^3\text{H}_2$)	Steady state
Tritium, T	12.32 y	<1 y	Thermoneutronic fission from	1000 T/yr in 1960s now
^3He	12.32 y		Cosmogenic ($^3\text{H}_2$)	0.01 T/yr
$^3\text{H}_2$	12.32 y		Unknown, but representing	1.0 kg/yr, increasing
RT	Stable	100 y	Electron-capture reactions	7 ppm, 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 ($^3\text{H}_2$)	10.7 kg/yr
^3He	>12 y	>1 y	Cosmogenic ($^3\text{H}_2$)	2 ppm/yr
Old Groundwaters/Minerals				
^{14}C	5730 y	<1 y	Cosmogenic (^{14}N)	100 pM, 0.1 T/yr decay
^{14}C	22,300 y		Cosmogenic (^{14}N)	1.0 pM/yr
^{13}C	50,000 y	<1 y	Cosmogenic (^{13}C)	100 ppm/yr
			Subsurface (^{13}C)	$^{13}\text{C}/^{12}\text{C} = 99.9 \times 10^{-3}$
^{18}O	11.4 My	<1 y	Cosmogenic (^{18}O)	100,000 ppm/yr
			Subsurface (^{18}O) up to 1000	>1000 ppm/yr
^{16}O	Stable		Subsurface (^{16}O) and ^{18}O decay	1.26e-10 ppm/yr
^{18}O	Stable		Subsurface (^{18}O)	0.00%
^{19}F	Stable		Subsurface (^{19}F) up to 1000	0.0% of ^{19}F

Clark, 2015

Radioisotopes In Hydrology

G Psacharopoulos



Radioisotopes In Hydrology:

Radioisotopes in Hydrology, 1963 **Practical Isotope Hydrology** S. M. Rao, 2006 In Indian context **Isotope Techniques in Hydrology** International Atomic Energy Agency, 1968 **Introduction to Isotope Hydrology** Willem Gerrit Mook, 2006 This publication presents in a simple but scientifically rigorous manner the consequences of natural processes to stable isotope concentrations and radioactivities and discusses the implications of these processes *Isotopes in Hydrology, Hydrogeology and Water Resources* B. P. Singh, Bhishm Kumar, 2005 Table of Contents Ch 1 Introduction 1 Ch 2 Basic concepts of nuclear physics 8 Ch 3 Nuclear instrumentation techniques 25 Ch 4 Environmental isotopes of water molecule and the applications 37 Ch 5 Tritium radio carbon and chlorine 36 dating 69 Ch 6 Chlorofluorocarbons C Cl subscript 3 F CFC 11 and C Cl subscript 2 F subscript 2 CFC 12 as dating tools and hydrologic tracers 93 Ch 7 Artificial radioactive isotopes as tracers in surface subsurface and ground water resources 99 Ch 8 Application of sealed sources 122 Ch 9 Sediment studies 149 *Radioisotopes in Hydrology* International Atomic Energy Agency, 1963 *Isotope Hydrology* Pradeep Kumar Aggarwal, 2012 Isotope Hydrology uses stable and radioactive isotopes of water and its dissolved constituents to trace hydrological processes including the pathways of rainfall and snowmelt to and interactions between aquifers lakes and rivers The potential of using stable isotopes of water was recognized in the 1930s but not fully explored until the 1950s since when the scope and nature of isotope applications in hydrology have blossomed Improvements in measurement techniques have facilitated use of isotopes in many contexts and isotope hydrology has become mainstream as documented in this volume of reprinted papers and accompanying commentaries An excellent resource for graduate and post graduate level courses in hydrology reproducing many important papers which are otherwise difficult to access **Environmental Isotopes in Hydrogeology** Ian D. Clark, Peter Fritz, 1997-07-23 Groundwater is an increasingly important resource to human populations around the world and the study and protection of groundwater is an essential part of hydrogeology the subset of hydrology that concentrates on the subsurface Environmental isotopes naturally occurring nuclides in water and solutes have become fundamental tools for tracing the recharge history and contamination of groundwater **Guide to the Safe Handling of Radioisotopes in Hydrology** International Atomic Energy Agency, 1966 **Isotopes and Radiation Technology**, 1970 *Radioisotopes in Hydrology*, 1963 **Tokyo, 1963. Application of Radioisotopes in Hydrology. Symposium, Tokyo, Japan, 5-9 March 1963. A Programme.** Symposium on the Application of Radioisotopes in Hydrology (INTERNATIONAL ATOMIC ENERGY AGENCY), 1962 **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States. Environmental Protection Agency. Library Systems Branch, 1974 **Nuclear Science Abstracts**, 1968 **Environmental Isotopes in Hydrogeology** Ian D. Clark, Peter Fritz, 2013-11-20 Groundwater is an increasingly important resource to human populations around the world and the study and protection of groundwater is an essential part of hydrogeology the subset of hydrology that concentrates on the subsurface Environmental

isotopes naturally occurring nuclides in water and solutes have become fundamental tools for tracing *Dictionary Catalog of the Department Library* United States. Department of the Interior. Library, 1969 *Library of Congress Subject Headings* Library of Congress, Library of Congress. Office for Subject Cataloging Policy, 2006 Isotope Hydrology: A Study Of The Water Cycle Joel R Gat, 2010-01-08 Within the realm of the newly evolving discipline of environmental sciences the stable isotope methodology is being used to an ever increasing extent especially in the study of the water cycle and of paleo climatology This book introduces the rules of the game by reviewing the natural variability of stable isotopes in the hydrosphere describing the physico chemical basis of isotope fractionation and applying this knowledge to natural waters as they move through the hydrologic cycle from the ocean to the atmosphere the biosphere and the lithosphere There is a special focus on the processes at the surface atmosphere and land biosphere atmosphere interfaces since these are the sites of major changes in isotope composition In response to the increasing awareness of our changing climate a discussion on the global view of the changing water cycle in the past and future winds up the presentation a **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office, 2003 **Special Sources of Information on Isotopes** F. E. McKinney, 1968

Whispering the Techniques of Language: An Emotional Quest through **Radioisotopes In Hydrology**

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