

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
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 pCi/L, increasing
CFC	Stable	100-200 y	Anthropogenic emissions, air/water	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	>120 y	>1 y	Cosmogenic (^3H)	1-100 pCi/L
Old Groundwaters/Minerals				
^{14}C	5730 y	<1 y	Cosmogenic (^{14}C)	100 pCi/L, 1-10 pCi/L
^{14}C	22,300 y		Cosmogenic (^{14}C)	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 isotopes	1,200 pCi/L
$^{18}\text{O}_2$	Stable		Subsurface ($^{18}\text{O}_2$)	0-100 pCi/L
$^{16}\text{O}_2$	Stable		Subsurface ($^{16}\text{O}_2$) (up to 1000)	0-100 pCi/L

Clark, 2015

Radioisotopes In Hydrology

Willem Gerrit Mook



Radioisotopes In Hydrology:

Practical Isotope Hydrology S. M. Rao, 2006 In Indian context Radioisotopes in Hydrology International Atomic Energy Agency, 1963 **Introduction to Isotope Hydrology** Willem Gerrit Mook, 2006 The application of natural isotopes stable as well as radioactive has become a widespread tool for hydrological research especially surface and groundwater behaviour and exploration This book explains in a simple but mathematically physically and chemically correct form the consequences of natural processes to stable isotope concentrations and radioactivities It also presents indications of possible applications without the pretention of a cookbook After a fairly theoretical introduction the elements of the water cycle are treated successively precipitation surface water including rivers and small streams lakes and stagnant waters estuaries and the sea and groundwater *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 *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 **Radioisotopes in Hydrology** International Atomic Energy Agency, 1963 **Guide to the Safe Handling of Radioisotopes in Hydrology** International Atomic Energy Agency, 1966 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 *Isotope Tracers in Catchment Hydrology* C. Kendall, J.J. McDonnell, 2012-12-02 This book represents a new earth systems approach to catchments that encompasses the physical and biogeochemical interactions that control the hydrology and biogeochemistry of the system The text provides a comprehensive treatment of the fundamentals of catchment hydrology principles of isotope geochemistry and the isotope variability in the hydrologic cycle but the main focus of the book is on case studies in isotope hydrology and isotope geochemistry that explore the applications of isotope techniques for investigating modern environmental problems *Isotope Tracers in Catchment Hydrology* is the first synthesis of physical hydrology and isotope geochemistry with catchment focus and is a valuable reference for professionals and students alike in the fields of hydrology hydrochemistry and environmental science This important interdisciplinary text provides extensive guidelines for the application of isotope techniques for all investigators facing the challenge of protecting precious water soil and ecological resources from the ever increasing problems associated with population growth and environmental change including those from urban development and agricultural land uses **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 **Isotopes and Radiation Technology**, 1967 **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 Radioisotopes in Hydrology, 1963 **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 **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States. Environmental Protection Agency. Library Systems Branch, 1974 **Atlas of Isotope Hydrology** International Atomic Energy Agency, 2008 This isotope hydrology atlas focuses on projects in IAEA Member States in the Asia and Pacific region where environmental isotopes were used to assess water resources in terms of quantity or quality It presents location maps of study areas summary statistics and relevant data plots Nearly 16 000 isotope records from 105 projects carried out between 1973 and 2007 in 16 Member States are included For each country a physiographic map is provided that shows major water bodies locations of stations in the IAEA WMO Global Network of Isotopes in Precipitation GNIP and the project study areas For each project a map of the study area is provided together with data tables and plots for median and mean values average annual precipitation and air temperature tritium and radiocarbon values **Practical**

Isotope Hydrology S. M. Rao, 2023-07-29 The book highlights with practical examples the potential of isotope techniques in water resources development and management It starts with a description of isotope characteristics as well as their relevance as tracers in studies on various stages of the hydrological cycle The book covers applications of both environmental isotopes and injected tracers to surface water and groundwater bodies as well as their interrelationships In view of the importance of identification of groundwater recharge and recharge processes due emphasis is given to this aspect of application of environmental isotopes Role of isotopes in understanding groundwater contamination from natural pollutants like inland salinity arsenic and nitrate is discussed with examples *Library of Congress Subject Headings* Library of Congress. Subject Cataloging Division, 1980 **Special Sources of Information on Isotopes** F. E. McKinney, 1968 *Nuclear Science Abstracts* , 1968

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