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Volume 16,
Edited by Klaus
Froehlich
Pages 1-438 (2009)

**Environmental
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Radionuclides presents
a state-of-the-art
summary of knowledge
on the use of
radionuclides to study
processes and systems
in the continental part

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of the Earth's
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environment. It is
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conceived as a
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companion to the two
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volumes of this series,
Radioactivity In
which deal with
The Environment
isotopes as tracers in
the marine
environment
(Livingston, Marine
Radioactivity) and with
the radioecology of
natural and man ...

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Radioactivity in the Environment, Volume 16: Environmental Radionuclides (Tracers and Timers of Terrestrial Processes)
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The book presents a state of the art summary of knowledge on the use of radionuclides to study processes and systems in the continental part of the Earth's environment.

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2009 Editor: ... Analysis
of Environmental
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November 2007

Author: ...
Volume 16 Tracers

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Book Series:
**Radioactivity in the
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Volume 16, 2009,
Pages 139-230. ...

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radionuclides, in
combination with
stable isotopes,
geochemistry, and
other hydrological
techniques, are a
powerful tool in
studying the cycling of

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water in continental
hydrological systems.

... Although CFCs are
nonradioactive
environmental tracers,
they are included in
this chapter because ...

Chapter 5
Radionuclides as
Tracers and Timers
in Surface ...

Vol. 12 (2020) Vol. 11
(2019) Vol. 10 (2018)
Vol. 9 (2017) Vol. 8
(2016) ... Special Issue
"Using Natural

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Radionuclides as
Aquatic Tracers in the
Terrestrial and the
Coastal/Marine
Environment" ... Of
particular interest in
this regard are
"Environmental
Tracers", defined as
ubiquitously occurring
natural or
anthropogenic
substances that ...

**Water | Special Issue
: Using Natural
Radionuclides as ...**

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Erdmann N, Passler G,
Trautmann N, Wendt K
(2008) Resonance
ionization mass
spectrometry for trace
analysis of long-lived
radionuclides. In:
Povinec PP (ed)
Radioactivity In
The Environment
Analysis of
environmental
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Amsterdam, pp
331-354 CrossRef
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Radionuclides as Tracers of Ocean

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Using environmental
radionuclides as
tracers in sediment
budget investigations
D. E. WALLING
Department of
Geography, University
of Exeter, Exeter EX4
4R.I, UK cl.e.walling@e
xeter.ac.uk Abstract

The many problems
associated with the
presence of fine
sediment in river
basins has generated

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And Timers Of

an increasing need for
an improved
understanding

**Using environmental
radionuclides as
tracers in sediment**

...

Lecture 15. Chemical
Tracers - Radionuclides

In this lecture we
discuss the application
of radioisotopes to
oceanographic
problems

Radioisotopes provide
the clocks that are

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used to measure rates
of ocean processes.
They are valuable to
marine science
because they are (a)
Present in a variety of
elements with different
chemistry
The Environment

**Lecture 15. Chemical
Tracers -
Radionuclides**

ISBN: 9780080438733

0080438733: OCLC

Number: 465362510:

Description: xiii, 438

pages : illustrations,

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maps ; 24 cm.
Contents: Origin and
distribution of
radionuclides in the
continental
environment / Jozef
Masarik --Radionuclides
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of processes in the
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...**

Krishnaswami S,
Benninger LK, Aller RC,
Von Damm KL (1980) A
tmospherically-derived
radionuclides as
tracers of sediment
mixing and
accumulation in near-
shore marine and lake
sediments: evidence
from ^7Be , ^{210}Pb and
 $^{239,240}\text{Pu}$.

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**Fallout
Radionuclides and
the Study of Erosion
and ...**

environmental
radionuclides as
sediment tracers
include the potential
for assembling
retrospective (medium-
term) information on
the basis of a limited
programme of
contemporary
measurements, the
possibility of using
essentially the same

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measurements within
different components
of the sediment budget
and thus tracing the
movement of

Processes
**USING
ENVIRONMENTAL
RADIONUCLIDES TO
TRACE SEDIMENT ...**

The final section of the
chapter deals with
environmental tracers,
such as stable isotopes
and radionuclides.

Each tracer type will be
discussed regarding its

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applicability in different hydrologic settings, the field methods used (necessary equipment and sampling techniques), and type of detection used. ...
PORE VOLUME NaCl
CC13F 1234 PORE...

Introduction To Groundwater Tracers

Radionuclides used in PET scanning are isotopes with short half-lives, such as

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carbon-11 (~20 min),
nitrogen-13 (~10 min),
oxygen-15 (~2 min)
and fluorine-18 (~110
min). These
radionuclides are
added into compounds
normally used by the
body such as glucose
(or variations of
glucose), water or
ammonia.

Using isotopes as tracers – Science Learning Hub

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Changes and
Radioactive Tracers 1
Dating sediment
profiles using
radionuclides: the need
for corroborating
evidence Gary J.
Hancock Radionuclides
provide important, and
often unique ways of
dating of soil and
sediment profiles.
However, changes in
the rate and
mechanism of delivery
of radionuclides to

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Environmental Tracers**

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Tracemodel1 - Excel
workbook for

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calculation and
presentation of
environmental tracer
data for simple
groundwater mixtures,
in IAEA, ed., IAEA
guidebook on the use
of chlorofluorocarbons
in hydrology, Appendix
III: Vienna,
International Atomic
Energy Agency, p.
229-233,
ISBN:92-0-100805-8.

**Environmental
Health Mission Area**

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- **Methods - Study**
Approaches Tracers

Herkelrath, W.N., and
Kharaka, Y.K., 2003,
Hydrologic controls on
the subsurface
transport of oil-field
brine at the Osage-
Skiatook Petroleum
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Research (OSPER) B
Site, Oklahoma, in
Sublette, K., ed., 9th
International Petroleum
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Transport of Brine and
Hydrocarbon Releases
in Soils ...

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Transport ...**

Lanthanide Field
Tracers Demonstrate
Enhanced Transport of
Transuranic
Radionuclides by
Natural Organic Matter
JOHN F. MCCARTHY, ' '.
WILLIAM E. SANFORD, \$
AND PAICE L.

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