

Certified reference materials for radionuclides in Bikini Atoll sediment (IAEA-410) and Pacific Ocean sediment (IAEA-412) - DTU Orbit (08/11/2017)

Certified reference materials for radionuclides in Bikini Atoll sediment (IAEA-410) and Pacific Ocean sediment (IAEA-412)

The preparation and characterization of certified reference materials (CRMs) for radionuclide content in sediments collected offshore of Bikini Atoll (IAEA-410) and in the open northwest Pacific Ocean (IAEA-412) are described and the results of the certification process are presented. The certified radionuclides include: 40K, 210Pb (210Po), 226Ra, 228Ra, 228Th, 232Th, 234U, 238U, 239Pu, 239+240Pu and 241Am for IAEA-410 and 40K, 137Cs, 210Pb (210Po), 226Ra, 228Ra, 228Th, 232Th, 235U, 238U, 239Pu, 240Pu and 239+240Pu for IAEA-412. The CRMs can be used for quality assurance and quality control purposes in the analysis of radionuclides in sediments, for development and validation of analytical methods and for staff training.

General information

State: Published

Organisations: Center for Nuclear Technologies, The Hevesy Laboratory, Radioecology and Tracer Studies, International Atomic Energy Agency, Laboratoire d'Études en Géophysique et Océanographie Spatiales, Universidade Técnica de Lisboa, Universidad de Sevilla, Verein für Kernverfahrenstechnik und Analytik Rossendorf e.V., Rijkswaterstaat Centre for Water Management, Centro de Investigaciones Energéticas, MedioAmbientales y Tecnológicas, Institut National de la Recherche Scientifique, Environmental Protection Agency, Federal Maritime and Hydrographic Agency, Institute for Reference Materials and Measurements, Chiba University, Senatsverwaltung für Stadtentwicklung und Umwelt, Thünen Institute of Fisheries Ecology, International Atomic Energy Agency, Instituto Nazionale di Fisica Nucleare, CITIUS, Japan Atomic Energy Agency, Institut für Hygiene und Umwelt, Isotopenlabor, CEFAS Lowestoft Laboratory, Central Laboratory for Radiological Protection, National Food Chain Safety Office, Institute of Meteorology and Water Management, Chinese Academy of Sciences, Comenius University, Universitat de Barcelona

Authors: Pham, M. K. (Ekstern), van Beek, P. (Ekstern), Carvalho, F. P. (Ekstern), Chamizo, E. (Ekstern), Degering, D. (Ekstern), Engeler, C. (Ekstern), Engeler, C. (Ekstern), Gurriaran, R. (Ekstern), Hanley, O. (Ekstern), Harms, A. V. (Ekstern), Herrmann, J. (Ekstern), Hult, M. (Ekstern), Ikeuchi, Y. (Ekstern), Ilchmann, C. (Ekstern), Kanisch, G. (Ekstern), Kis-Benedek, G. (Ekstern), Kloster, M. (Ekstern), Laubenstein, M. (Ekstern), Llaurodo, M. (Ekstern), Mas, J. L. (Ekstern), Nakano, M. (Ekstern), Nielsen, S. P. (Intern), Osvath, I. (Ekstern), Povinec, P. P. (Ekstern), Rieth, U. (Ekstern), Schikowski, J. (Ekstern), Smedley, P. A. (Ekstern), Suplinska, M. (Ekstern), Sýkora, I. (Ekstern), Tarjan, S. (Ekstern), Varga, B. (Ekstern), Vasileva, E. (Ekstern), Zalewska, T. (Ekstern), Zhou, W. (Ekstern)

Pages: 101–104

Publication date: 2016

Main Research Area: Technical/natural sciences

Publication information

Journal: Applied Radiation and Isotopes

Volume: 109

ISSN (Print): 0969-8043

Ratings:

BFI (2017): BFI-level 1

Web of Science (2017): Indexed yes

BFI (2016): BFI-level 1

Scopus rating (2016): CiteScore 1.17 SJR 0.537 SNIP 1.005

Web of Science (2016): Indexed yes

BFI (2015): BFI-level 1

Scopus rating (2015): SJR 0.546 SNIP 1.014 CiteScore 1.15

BFI (2014): BFI-level 1

Scopus rating (2014): SJR 0.582 SNIP 1.218 CiteScore 1.27

Web of Science (2014): Indexed yes

BFI (2013): BFI-level 1

Scopus rating (2013): SJR 0.528 SNIP 0.959 CiteScore 1.24

ISI indexed (2013): ISI indexed yes

Web of Science (2013): Indexed yes

BFI (2012): BFI-level 1

Scopus rating (2012): SJR 0.669 SNIP 1.136 CiteScore 1.29

ISI indexed (2012): ISI indexed yes

Web of Science (2012): Indexed yes

BFI (2011): BFI-level 1

Scopus rating (2011): SJR 0.632 SNIP 1.153 CiteScore 1.21

ISI indexed (2011): ISI indexed yes

Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 0.706 SNIP 1.089
Web of Science (2010): Indexed yes
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 0.618 SNIP 1.191
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 1
Scopus rating (2008): SJR 0.669 SNIP 1.176
Web of Science (2008): Indexed yes
Scopus rating (2007): SJR 0.588 SNIP 1.168
Web of Science (2007): Indexed yes
Scopus rating (2006): SJR 0.591 SNIP 1.097
Web of Science (2006): Indexed yes
Scopus rating (2005): SJR 0.47 SNIP 0.806
Web of Science (2005): Indexed yes
Scopus rating (2004): SJR 0.805 SNIP 1.15
Scopus rating (2003): SJR 0.502 SNIP 0.766
Web of Science (2003): Indexed yes
Scopus rating (2002): SJR 0.586 SNIP 1.039
Web of Science (2002): Indexed yes
Scopus rating (2001): SJR 0.501 SNIP 0.681
Scopus rating (2000): SJR 0.474 SNIP 0.92
Web of Science (2000): Indexed yes
Scopus rating (1999): SJR 0.577 SNIP 0.733
Original language: English
Certified reference material, Marine sediment, Quality assurance, Quality control, Radionuclides
DOIs:
10.1016/j.apradiso.2015.11.041
Source: FindIt
Source-ID: 2289417764
Publication: Research - peer-review › Journal article – Annual report year: 2016