VOLUME 39 / NUMBER 3 / 1997



An International Journal of Cosmogenic Isotope Research



Editor AUSTIN LONG

Consulting Editor A. J. T. JULL

Managing Editor RENEE S. KRA

Acting Managing Editor DAVID R. SEWELL

Assistant Editor KIMBERLEY TANNER ELLIOTT

partment of Geosciences University of Arizona 7 East Ft. Lowell Road 2**50n, Arizona 85712-1201 USA**

ISSN: 0033-8222

Downloaded from https://www.cambridge.c https://doi.org/10.1017/S0033822200055388 RADIOCARBON

An International Journal of Cosmogenic Isotope Research

Editor: AUSTIN LONG Consulting Editor; A. J. T. JULL Managing Editor: RENEE S. KRA Acting Managing Editor: DAVID R. SEWELL Assistant Editor: KIMBERLEY TANNER ELLIOTT Published by Department of Geosciences The University of Arizona

Published three times a year at The University of Arizona, Tucson, AZ 85712-1201 USA.

© 1997 by the Arizona Board of Regents on behalf of the University of Arizona. All rights reserved.

Subscription rate (1998): \$115.00 (for institutions), \$55.00 (for individuals). Foreign postage is extra. A complete price list, including Proceedings of International Conferences, special publications and 1998 subscription categories, appears in the back of this issue. Back issues may be obtained by contacting RADIOCARBON.

All correspondence and manuscripts should be addressed to the Managing Editor, RADIOCARBON, Department of Geosciences, The University of Arizona, 4717 East Ft. Lowell Road, Tucson, AZ 85712-1201 ÚSA. Tel: (520) 881-0857; Fax: (520) 881-0554; Internet: c14@packrat.aml, arizona.edu

Offprints. The minimum offprint order for each article will be 50 copies without covers. No offprints will be furnished free of charge unless page charges are paid (see below). Covers are also available.

Page charges. For 1998, each institution sponsoring research reported in a technical paper or a date list will be asked to pay a charge of \$50.00 per printed page. Institutions or authors paying such charges will be entitled to 50 free offprints without covers. No charges will be made if the author indicates that the author's institution is unable to pay, and payment of page charges for an article will, in no case, be a condition for its acceptance.

Missing issues will be replaced without charge only if claim is made within three months; (six months for India, New Zealand and Australia) after the publication date. Claims for missing issues will not be honored if non-delivery results from failure by the subscriber to notify the Journal of an address change.

Illustrations should include explanation of symbols used. Copy that cannot be reproduced cannot be accepted. Whenever possible, reduce figures for direct publication. Line drawings should be in black India ink on white drawing board, tracing cloth, or coordinate paper printed in blue and should be accompanied by clear ozalids or reduced photographs for use by the reviewers. Photographs should be positive prints. We can also print from many computer graphics file formats; please request our gluide to graphics files for details. Figures, (photographs and line drawings) should be numbered consecutively through each article, using Arabic numerals. Tables may be accepted as camera-ready copy.

Citations. A number of radiocarbon dates appear in publications without laboratory citation or reference to published date lists. We ask authors of research articles and date lists to include proper citation (laboratory number and date-list citation) in all publications in which radiocarbon dates appear.

List of laboratories. Our comprehensive list of laboratories is published in the third issue of each volume, and is also available on the WWW at http://packrat.aml.arizona.edu/Info/lablist.txt. We are expanding the list to include additional laboratories and scientific agencies with whom we have established contacts. The editors welcome information on these or other scientific organizations. We ask all laboratory directors to provide their laboratory code designation, as well as current telephone and fax numbers, and e-majl addresses. Changes in names or addresses, additions or deletions should be reported to the Managing Editor. Conventional and AMS laboratories are now arranged in alphabetical order by country and we include laboratories listed by code designation.

RADIOCARBON on the World Wide Web: http://packrat.aml.arizona.edu/

RADIOCARBON

1997

CONTENTS

FROM THE EDITOR	
Austin Long	iii
OBITUARY	
Harold W. Krueger Alexander Cherkinsky and Richard Reesman	v
ARTICLES	
Study of the Parameters Affecting the Correlation of Background versus Cosmic Radiation in CO ₂ Counters: Reliability of Dating Results Yorgos Facorellis, Yannis Maniatis and Bernd Kromer	225
Burnt and Unburnt Carbon: Dating Charcoal and Burnt Bone from the Willandra Lakes, Australia <i>Richard Gillespie</i>	239
On the Isotopic Composition of Dissolved Inorganic Carbon in Rivers and Shallow Groundwater: A Diagrammatic Approach to Process Identification and a More Realistic Model of the Open System C. B. Taylor.	251
Iron-Manganese System for Preparation of Radiocarbon AMS Targets: Characterization of Procedural Chemical-Isotopic Blanks and Fractionation R. Michael Verkouteren, Donna B. Klinedinst and Lloyd A. Currie	
Radiocarbon Releases at the Krško Nuclear Power Plant Barbara Vokal and Ivan Kobal	
Histone Adduction with Nicotine: A Bio-AMS Study X. H. Wu, H. F. Wang, Y. F. Liu, X. Y. Lu, J. J. Wang and K. Li	293
DATE LISTS	
UGRA University of Granada Radiocarbon Dates VIII Cecilio González-Gómez and Elena Villafranca-Sánchez	299
A Compendium of Radiocarbon and Oxidizable Carbon Ratio Dates from Archaeological Sites in East Texas, With a Discussion of the Age and Dating of Select Components and Phases <i>Timothy K. Perttula</i>	305
NOTES AND COMMENTS	
The ¹⁴ C Content of Lithium Metal Used in Benzene Synthesis C. J. Eastoe, Austin Long, Charles S. Tucek and A. J. T. Jull.	343
Analytical Protocol and Quality Assurance for ¹⁴ C Analyses: Proposal for a Further Intercomparison <i>E. M. Scott, D. D. Harkness and G. T. Cook.</i>	347
Estimating Settlement Time <i>Andrew R. Solow</i>	351
BOOK REVIEW	
Nuclear Techniques in Soil-Plant Studies for Sustainable Agriculture and Environmental Preservation Reviewed by Steven W. Leavitt	355
RADIOCARBON UPDATES	357
LABORATORIES	361
AUTHOR INDEX	387
SUBJECT INDEX	389

ASSOCIATE EDITORS

EDOUARD BARD J. WARREN BECK OWEN K. DAVIS ELLEN R. M. DRUFFEL DOUGLAS D. HARKNESS CALVIN J. HEUSSER SHEELA KUSUMGAR STEVEN W. LEAVITT ANN P. McNICHOL ANDREW M. T. MOORE PAVEL POVINEC

MICHAEL B. SCHIFFER E. MARIAN SCOTT JOHANNES VAN DER PLICHT JOHN S. VOGEL WEIJIAN ZHOU Aix-en-Provence, France Tucson, Arizona, USA Tucson, Arizona, USA Irvine, California, USA East Kilbride, Scotland Tuxedo, New York, USA Ahmedabad, India Tucson, Arizona, USA Woods Hole, Massachusetts, USA New Haven, Connecticut, USA Bratislava, Slovakia Monaco Tucson, Arizona, USA Glasgow, Scotland Groningen, The Netherlands Livermore, California, USA Xi'an, China

Downloaded from https://www.cambridge.org/core. IP address: 3.145.157.73, on 16 Sep 2024 at 15:09:36, subject to the Cambridge Core terms of use, available at https://www.cambridge.org/core/terms. https://doi.org/10.1017/S0033822200053388