

August 2005

**Journal of cave and karst studies Continues NSS bulletin (OCLC:  
2087737)**

Speleological Society National

Follow this and additional works at: [https://digitalcommons.usf.edu/kip\\_articles](https://digitalcommons.usf.edu/kip_articles)

---

**Recommended Citation**

National, Speleological Society, "Journal of cave and karst studies Continues NSS bulletin (OCLC: 2087737)" (2005). *KIP Articles*. 2847.

[https://digitalcommons.usf.edu/kip\\_articles/2847](https://digitalcommons.usf.edu/kip_articles/2847)

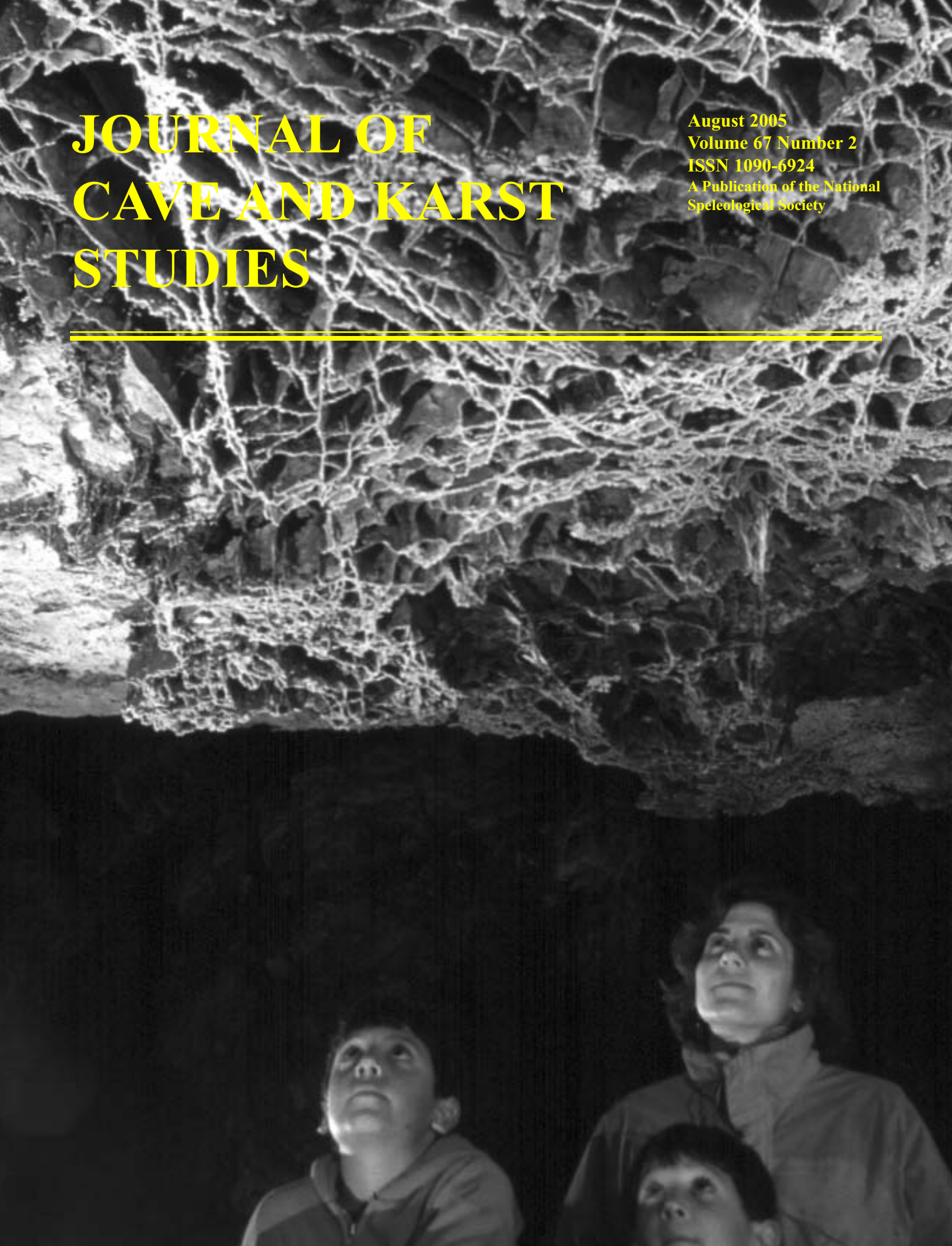
This Article is brought to you for free and open access by the KIP Research Publications at Digital Commons @ University of South Florida. It has been accepted for inclusion in KIP Articles by an authorized administrator of Digital Commons @ University of South Florida. For more information, please contact [scholarcommons@usf.edu](mailto:scholarcommons@usf.edu).

# JOURNAL OF CAVE AND KARST STUDIES

---

---

August 2005  
Volume 67 Number 2  
ISSN 1090-6924  
A Publication of the National  
Speleological Society



# Journal of Cave and Karst Studies of the National Speleological Society

Volume 67 Number 2 August 2005

## CONTENTS

Why publish discussions and author responses to papers published in the <i>Journal of Cave and Karst Studies</i> ? <i>Malcolm S. Field</i>	91
Geomorphic history of Crystal Cave, Southern Sierra Nevada, California <i>Joel D. Despain and Greg M. Stock</i>	92
Estimating biodiversity in the epikarstic zone of a West Virginia Cave <i>Tanja Pipan and David C. Culver</i>	103
The distribution and life history of <i>Arrhopalites caecus</i> (Tullberg): Order: Collembola, in Wind Cave, South Dakota, USA <i>John C. Moore, Paul Saunders, Greg Selby, Howard Horton, Marisa K. Chelius, Amanda Chapman, and Rodney D. Horrocks</i>	110
Using state-wide GIS data to identify the coincidence between sinkholes and geologic structure <i>Lee Florea</i>	120
Comet Cones: A variety of cave cone from Fort Stanton Cave, New Mexico <i>Victor J. Polyak and Paula P. Provencio</i>	125
Measurement of pH for field studies in karst areas <i>Ira D. Sasowsky and Cory T. Dalton</i>	127
Persistent coliform contamination in Lechuguilla Cave Pools Response: Barton and Pace Discussion <i>Andrea J. Hunter, Diana E. Northup, Clifford N. Dahm, and Penelope J. Boston</i>	133
Persistent coliform contamination in Lechuguilla Cave Pools Response: Davis Forum <i>Andrea J. Hunter, Diana E. Northup, Clifford N. Dahm, and Penelope J. Boston</i>	136
Ecology and hydrology of a threatened groundwater-dependent ecosystem: The Jewel Cave karst system in Western Australia <i>S.M. Eberhard</i>	138
<b>Book Reviews</b>	
<i>Bat Ecology</i>	139
<i>Studies of Cave Sediments</i>	140
<i>In the Maw of the Earth Monster: Mesoamerican Ritual Cave Use</i>	141
<i>Evaporite Karst and Engineering/Environmental Problems in the United States</i>	143
<i>Sinkholes and Subsidence: Karst and Cavernous Rocks in Engineering and Construction</i>	144

The *Journal of Cave and Karst Studies* (ISSN 1090-6924, CPM Number #40065056) is a multi-disciplinary, refereed journal published three times a year by the National Speleological Society, 2813 Cave Avenue, Huntsville, Alabama 35810-4431 USA; (256) 852-1300; FAX (256) 851-9241, e-mail: nss@caves.org; World Wide Web: <http://www.caves.org/pub/journal/>. The annual subscription fee, worldwide, by surface mail, is \$18 US. Airmail delivery outside the United States of both the *NSS News* and the *Journal of Cave and Karst Studies* is available for an additional fee of \$40 (total \$58); The *Journal of Cave and Karst Studies* is not available alone by airmail. Back issues and cumulative indices are available from the NSS office. POSTMASTER: send address changes to the *Journal of Cave and Karst Studies*, 2813 Cave Avenue, Huntsville, Alabama 35810-4431 USA.

The *Journal of Cave and Karst Studies* is covered the the following ISI Thomson Services: Science Citation Index Expanded, ISI Alerting Services, and Current Contents/Physical, Chemical, and Earth Sciences.

Copyright © 2005 by the National Speleological Society, Inc. Printed on recycled paper by American Web, 4040 Dahlia Street, Denver, Colorado 80216 USA

Front cover: Elks Room in Wind Cave (photo by Peter and Ann Bosted). See John C. Moore, Paul Saunders, Greg Selby, Howard Horton, Marisa K. Chelius, Amanda Chapman, and Rodney D. Horrocks, p. 110.

## Editor

### Malcolm S. Field

National Center of Environmental Assessment (8623D)  
Office of Research and Development  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue NW  
Washington, DC 20460-0001  
202-564-3279 Voice 202-565-0079 FAX  
field.malcolm@epa.gov

## Production Editor

### James A. Pisarowicz

Wind Cave National Park  
Hot Springs, SD 57747  
605-673-5582  
pisarowicz@alumni.hamline.edu

## BOARD OF EDITORS

### Anthropology

#### Patty Jo Watson

Department of Anthropology  
Washington University  
St. Louis, MO 63130  
pjwatson@artsci.wustl.edu

### Conservation-Life Sciences

#### Julian J. Lewis & Salisa L. Lewis

Lewis & Associates LLC  
Cave, Karst & Groundwater Biological Consulting  
17903 State Road 60  
Borden, IN 47106-8608  
812-283-6120  
lewisbioconsult@aol.com

### Earth Sciences-Journal Index

#### Ira D. Sasowsky

Department of Geology  
University of Akron  
Akron, OH 44325-4101  
330-972-5389  
ids@uakron.edu

### Exploration

#### Paul Burger

Cave Resources Office  
3225 National Parks Highway  
Carlsbad, NM 88220  
(505)785-3106  
paul\_burger@nps.gov

### Paleontology

#### Greg McDonald

Geologic Resource Division  
National Park Service  
P.O. Box 25287  
Denver, CO 80225  
303-969-2821  
Greg\_McDonald@nps.gov

### Social Sciences

#### Joseph C. Douglas

History Department  
Volunteer State Community College  
1480 Nashville Pike  
Gallatin, TN 37066  
615-230-3241  
Joe.Douglas@volstate.edu

### Book Reviews

#### Arthur N. Palmer & Margaret V. Palmer

Department of Earth Sciences  
State University of New York  
Oneonta, NY 13820-4015  
607-432-6024  
palmeran@snynoneva.cc.oneonta.edu

### Proofreader

#### Donald G. Davis

## JOURNAL ADVISORY BOARD

Barbara am Ende	Hazel A. Barton
Chris Groves	Carol Hill
Horton Hobbs III	David Jagnow
Julia James	Kathy Lavoie
Joyce Lundberg	