

Supplement to *Journal of Paleontology*
(ISSN 0022-3360)
JPALAZ 59(3) II 1-31, MAY 1985

Volume 59

MAY 1985

Supplement to No. 3

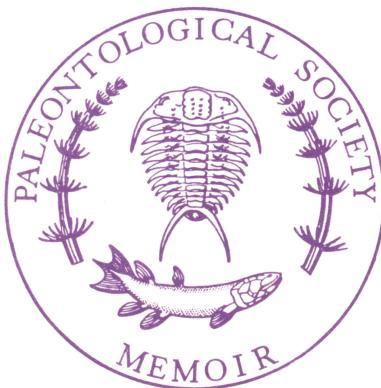
Part II of II

JOURNAL OF PALEONTOLOGY

THE PALEONTOLOGICAL SOCIETY
MEMOIR 15

Bryozoans from the Murfreesboro and
Pierce Limestones (Early Black Riveran,
Middle Ordovician), Stones River Group,
of Central Tennessee

OLGERTS L. KARKLINS



Memoirs of the Paleontological Society are occasional publications consisting of monographs and symposia that are too extensive for publication in the *Journal of Paleontology* as part of the regular issues. Ordinarily, memoirs are published as supplements to a regular issue of the *Journal*. Inquiries concerning submittal of manuscripts for inclusion in the Memoir Series may be made to the Editors of the *Journal* for the Paleontological Society.

Communications concerning the cost and availability of back numbers of the Memoir Series should be addressed to the Society of Economic Paleontologists and Mineralogists, P.O. Box 979, Tulsa, Oklahoma 74101.

OFFICERS OF THE PALEONTOLOGICAL SOCIETY

For the year ending November 1985

President

HELEN TAPPAN-LOEBLICH,
Los Angeles, California

President-Elect

NORMAN SOHL Washington, D.C.

Past-President

WALTER C. SWEET, Columbus, Ohio

Secretary

JOHN POJETA, JR.,
U.S. Geological Survey
E-501 U.S. National Museum
Smithsonian Institution
Washington, D.C. 20560

Treasurer

ROGER L. KAESLER, Lawrence, Kansas

Program Coordinator

ROGER D. K. THOMAS,
Lancaster, Pennsylvania

Journal Co-Editors

J. KEITH RIGBY and
LEHI F. HINTZE, Provo, Utah

Paleobiology Editor

J. JACK SEPkoski, Jr.,
Chicago, Illinois

Special Publications Co-Editors

THOMAS W. BROADHEAD and
KENNETH R. WALKER
Knoxville, Tennessee

Councilors

JUNE P. ROSS, Bellingham, Washington
JENNIFER KITCHELL, Madison, Wisconsin

Section Chairpersons

North-Central: ROBERT J. ELIAS
Winnipeg, Manitoba, Canada
Northeastern: ROBERT LINSLEY
Hamilton, New York
Pacific Coast: DAVID J. BOTTNER
Los Angeles, California
Southeastern: PATRICIA H. KELLEY
University, Mississippi

The Paleontological Society

MEMOIR 15

**BRYOZOANS FROM THE MURFREESBORO AND
PIERCE LIMESTONES (EARLY BLACK RIVERAN,
MIDDLE ORDOVICIAN), STONES RIVER GROUP,
OF CENTRAL TENNESSEE**

OLGERTS L. KARKLINS

U.S. Geological Survey, Washington, D.C. 20560

Copyright © 1985 by
THE PALEONTOLOGICAL SOCIETY, INC.
MAY 1985

CONTENTS

ABSTRACT	1
INTRODUCTION	1
DESCRIPTION OF LOCALITIES AND SECTIONS	3
GENERAL	3
LOCALITIES	4
PIERCE'S MILL SECTION	4
LASCASSAS QUADRANGLE SECTION	4
MURFREESBORO, TENNESSEE	5
MATERIALS AND METHODS	5
GENERAL	5
REPOSITORY OF SPECIMENS	5
EXPLANATIONS OF MEASUREMENTS AND ABBREVIATIONS	5
PREVIOUS WORK	6
COMPOSITION OF BRYOZOAN FAUNA	6
BIOSTRATIGRAPHY	7
SYSTEMATIC PALEONTOLOGY	8
ORDER Trepustomata Ulrich	9
GENUS <i>Amplexopora</i> Ulrich	9
<i>Amplexopora dendroidea</i> (Coryell)	9
GENUS <i>Batostoma</i> Ulrich	11
<i>Batostoma suberassum</i> Coryell	13
GENUS <i>Hemiphragma</i> Ulrich	14
<i>Hemiphragma</i> sp.	14
GENUS <i>Parvohallopora</i> Singh	17
<i>Parvohallopora spissata</i> (Coryell)	18
GENUS <i>Nicholsonella</i> Ulrich	19
<i>Nicholsonella pulchra</i> Ulrich	19
ORDER Cystoporata Astrova	21
GENUS <i>Ceramophylla</i> Ulrich	21
<i>Ceramophylla pierceanum</i> (Coryell)	21
GENUS <i>Constellaria</i> Dana	24
<i>Constellaria lamellosa</i> Coryell	24
ORDER Cryptostomata Vine	25
GENUS <i>Escharopora</i> Hall	25
<i>Escharopora</i> sp. A	25
GENUS <i>Graptodictya</i> Ulrich	28
<i>Graptodictya fruticosa</i> Coryell	28
GENUS <i>Pachydictya</i> Ulrich	29
<i>Pachydictya senilis</i> Coryell	29
GENUS <i>Stictopora</i> Hall	31
<i>Stictopora tabulata</i> (Coryell)	31
GENUS <i>Trigonodictya</i> Ulrich	34
<i>Trigonodictya</i> sp.	34
GENUS <i>Stictoporella</i> Ulrich	35
<i>Stictoporella cibrilina</i> Coryell	35
GENUS <i>Phylloporina</i> Foerste	38
<i>Phylloporina?</i> sp.	38
GENUS <i>Ulrichostylus</i> Bassler	38
<i>Ulrichostylus</i> sp. A	39
ACKNOWLEDGMENTS	39
REFERENCES	40

ILLUSTRATIONS

FIGURES	1—Index map of 7½-minute quadrangles in Rutherford County, central Tennessee 2 2—Stratigraphic distribution of bryozoans in Pierce's Mill section and in Lascassas quadrangle section, Rutherford County, central Tennessee 3 3— <i>Amplexopora dendroidea</i> 10 4— <i>Batosoma suberassum</i> , <i>Nicholsonella pulchra</i> 12 5— <i>Constellaria lamellosa</i> , <i>Hemiphragma</i> sp. 15 6— <i>Parvohalloporella spissata</i> 16 7— <i>Phylloporina?</i> sp., <i>Nicholsonella pulchra</i> 20 8— <i>Ceramophylla pierceanum</i> 22 9— <i>Graptodictya fruticosa</i> , <i>Escharopora</i> sp. A 26 10— <i>Pachydictya senilis</i> 30 11— <i>Trigonodictya</i> sp., <i>Ulrichostylus</i> sp. A, <i>Stictopora tabulata</i> 32 12— <i>Stictoporella cribrilina</i> 36
TABLES	1— <i>Amplexopora dendroidea</i> 11 2— <i>Batosoma suberassum</i> 13 3— <i>Parvohalloporella spissata</i> 17 4— <i>Nicholsonella pulchra</i> 21 5— <i>Ceramophylla pierceanum</i> 23 6— <i>Constellaria lamellosa</i> 25 7— <i>Escharopora</i> sp. A 27 8, 9— <i>Graptodictya fruticosa</i> 28 10— <i>Pachydictya senilis</i> 31 11— <i>Stictopora tabulata</i> 33 12— <i>Stictoporella cribrilina</i> 37 13— <i>Ulrichostylus</i> sp. A 39