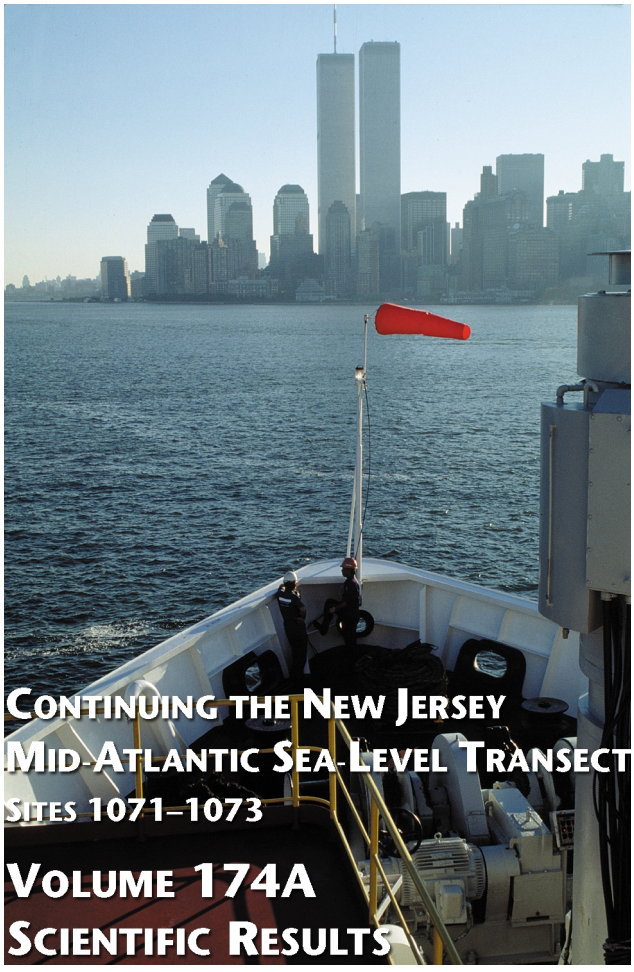


# Proceedings of the Ocean Drilling Program

Prepared by the
OCEAN DRILLING PROGRAM,
TEXAS A&M UNIVERSITY,
in cooperation with the
NATIONAL SCIENCE FOUNDATION
and
JOINT OCEANOGRAPHIC INSTITUTIONS, INC.

# Proceedings of the Ocean Drilling Program

## Volume 174A
## Scientific Results
## Continuing the New Jersey Mid-Atlantic Sea-Level Transect

Covering Leg 174A of the cruises of the Drilling Vessel *JOIDES Resolution*
Halifax, Nova Scotia, to New York, New York
Sites 1071–1073
15 June–19 July 1997

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Institut Français de Recherche pour l'Exploitation de la Mer (France)

National Science Foundation (United States)

Natural Environment Research Council (United Kingdom)

University of Tokyo, Ocean Research Institute (Japan)

Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the views of the National Science Foundation, the participating agencies, Joint Oceanographic Institutions, Inc., Texas A&M University, or Texas A&M Research Foundation.

Current policy requires that all figures published in *Scientific Results* volumes of the *Proceedings of the Ocean Drilling Program* be provided by the authors.

Abbreviations for names of organizations and publications in ODP reference lists follow the style given in *Chemical Abstracts Service Source Index* (published by American Chemical Society).

This volume includes a site map showing the drilling locations for this leg and maps showing the drilling locations of all Ocean Drilling Program (ODP) and Deep Sea Drilling Project (DSDP) drilling sites in PDF format. These maps were produced using Generic Mapping Tools (GMT) of Paul Wessel and Walter H.R. Smith (**gmt.soest.hawaii.edu**).

Cover photograph of the *JOIDES Resolution* arriving at New York City on July 1997 by ODP Photographer Roy Davis.

# Foreword

## By Joint Oceanographic Institutions, Inc.

This volume presents scientific and engineering results from the Ocean Drilling Program (ODP). These results address the scientific and technical goals of the program, which are focused on the study of the dynamics of Earth's interior and environment, the evolution of oceanic crust, and the fluctuations of climate. In addition, study of the Earth's deep biosphere is an emergent research objective.

ODP, an international partnership of scientists and research institutions from 22 countries, operates the drillship *JOIDES Resolution*. This state-of-the-art research vessel contains eight levels of laboratories and other scientific facilities required for carrying out the program's objectives.

The management of ODP involves a partnership of scientists and governments. International oversight and coordination are provided by the ODP Council, which is made up of representatives from the member countries. Overall scientific and management guidance is provided by representatives from the Joint Oceanographic Institutions for Deep Earth Sampling (JOIDES).

Joint Oceanographic Institutions, Inc. (JOI), a nonprofit consortium of 18 U.S. oceanographic institutions, serves as the National Science Foundation's prime contractor for ODP. JOI implements scientific objectives, plans, and recommendations of the JOIDES committees through major subcontracts to Texas A&M University (TAMU) for science operations and to Lamont-Doherty Earth Observatory (LDEO) of Columbia University for geochemical and geophysical well-logging services.

JOI, TAMU, and LDEO have worked together successfully for many years to manage the Ocean Drilling Program. We look forward to many exciting discoveries and continued international collaboration as we further our scientific mission, especially the planning for the future of ocean drilling beyond 2003.

Steven R. Bohlen
President of the Joint Oceanographic Institutions and Executive Director of the Ocean Drilling Programs
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# Preface

## The Voyages of Discovery

The *Scientific Results* volumes of the *Proceedings of the Ocean Drilling Program* are about Earth and her oceans.

These volumes contain contributions to a better understanding of the history of our planet through time. This exploration of Earth's past is based on scientific analyses of layers of strata sampled by the *JOIDES Resolution* at key locations throughout the global ocean. These volumes are a tribute to the scientific exploration carried out by the men and women who contributed to these voyages of discovery. Like the pioneering exploration and research of Captain Cook aboard the first *Resolution*, these volumes are a credit to the human spirit, which sees no boundaries.

The papers in this volume are published in a new online format that will be archived on CD-ROM. The *Proceedings* contents are available to students, scientists, and the public throughout the world. Volumes, once housed in the libraries of the member nations of ODP, are now published on the Internet for a worldwide audience and are also available in CD-ROM format. This electronic publication enables future investigators to gain easier access to the results of ocean drilling research. I acknowledge and thank the authors for their contributions and willingness to participate in this new venture.

Each *Scientific Results* volume has an Editorial Review Board that is responsible for obtaining peer reviews of papers submitted to the volume. This board usually is made up of the two co-chief scientists for the cruise, the ODP staff scientist for the cruise, and one external specialist who is familiar with the geology of the investigated area. ODP staff coordinate the peer-review process and also edit and produce each paper.

Each *Scientific Results* volume contains one leg synthesis paper and other peer-reviewed papers that present the results of extensive research in various aspects of scientific ocean drilling related to each leg. Each paper submitted to a *Scientific Results* volume undergoes rigorous peer review by at least two specialists in the author's research field. Volumes may also contain short reports of useful data. These Data Reports do not include interpretation of results and are peer-reviewed by at least one specialist. We seek to maintain a peer-review system comparable to those of the most highly regarded journals in the geological sciences.

To acknowledge the contributions made by this volume's Editorial Review Board, the Board members are designated Editors of the volume. Reviewers of manuscripts for this volume, whose efforts are so essential to the success of the publication, are listed without attribution to any particular manuscript.

On behalf of the Ocean Drilling Program, I extend sincere appreciation to the members of the Editorial Review Board and to the reviewers for generously contributing their time and effort. This process ensures that only papers of high scientific quality are published in the *Scientific Results* volumes.

Paul J. Fox
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*At time of publication. See **Publisher's Notes,** p. 5, for list of funding agencies at time of cruise. For an up-to-date list of current member organizations and office contact information, see the ODP Web site: **www.oceandrilling.org.**

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# CD-ROM Contents: Synopsis and Chapters

## Synopsis



## Chapters

# CD-ROM Contents: ASCII Tables

The *Scientific Results* CD-ROM contains ASCII versions of selected data tables. A complete listing of the ASCII data can be found below.

**Chapter 3**

**Table T1.** Sedimentologic and ichnologic observations made at the decimeter scale throughout the Quaternary interval (0–520 mbsf) of Hole 1073A, Leg 174A, New Jersey margin.

**Chapter 7**

**Table T3.** Stress and porosity measurements from Sample 174A-1073A-8H-1, 17–22 cm.
**Table T4.** Stress and porosity measurements from Sample 174A-1073A-26X-2, 76–82 cm.
**Table T5.** Stress and porosity measurements from Sample 174A-1073A-26X-2, 82–89 cm.
**Table T6.** Stress and porosity measurements from Sample 174A-1073A-41X-5, 97–103 cm.
**Table T7.** Stress and porosity measurements from Sample 174A-1073A-71X-1, 2–8 cm.

# CD-ROM Contents: Drilling Location Maps

A site map showing the drilling locations for this leg and maps showing the drilling locations of all Ocean Drilling Program (ODP) and Deep Sea Drilling Project (DSDP) drilling sites are available in PDF format.

**ODP Leg 174A Site Map**

**ODP Map** (Legs 100–174A)

**DSDP Map** (Legs 1–96)

# CD-ROM Contents: Index to Leg 174A *Initial Reports* and *Scientific Results* Volumes

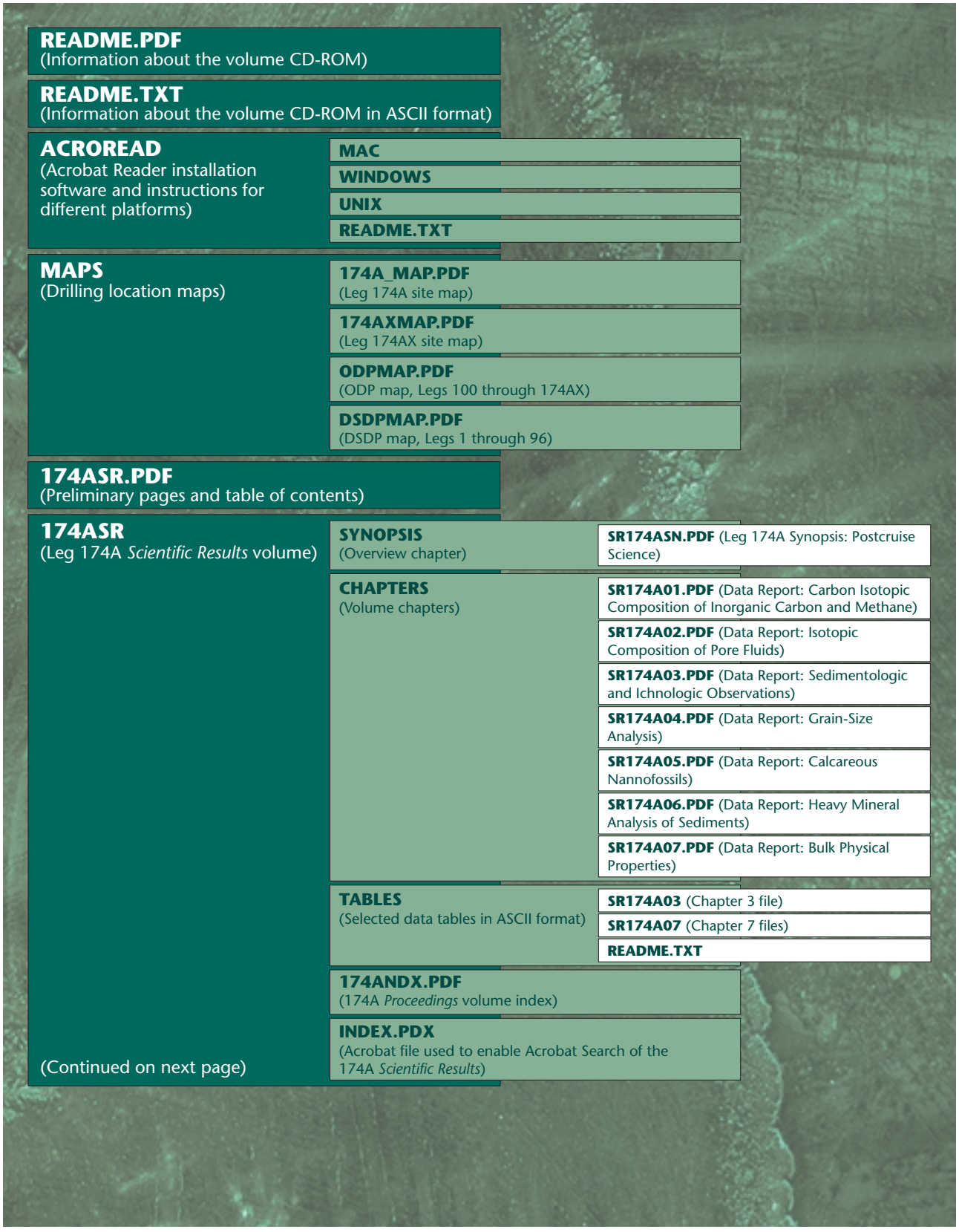
The index covers both the *Initial Reports* and *Scientific Results* portions of Volume 174A of the *Proceedings of the Ocean Drilling Program.* The index contains a subject and taxonomic index.

**Index to Leg 174A**

# CD-ROM Contents: Compiled Electronic Index

The Compiled Electronic Index of the *Proceedings of the Ocean Drilling Program* contains the indexes of Volumes 101–176, 178, and 180. The indexes are contained in the directory titled ODPINDEX and are named ###NDX.PDF (### = the leg number). These indexes can be searched individually or collectively. For information on using the Acrobat search function, see **"Searching a PDF Document"** in README.PDF.

# CD-ROM Directory Structure




(Continued on next page)

# CD-ROM Directory Structure (continued)

**174AX_IR**
(Reprint of the Leg 174AX *Initial Reports* volume)

- **PRELIM.PDF** (Preliminary pages and table of contents)
- **FRONTIS.PDF** (Frontispiece)
- **ACKNOWL.PDF** (Acknowledgments)
- **CHAP_01.PDF** (Bass River Site)
- **INDEX.PDX** (Acrobat file used to enable Acrobat Search of the 174AX *Initial Reports*)

**174AXSIR.PDF**
(Preliminary pages and table of contents)

**174AXSIR**
(Leg 174AX Supplement *Initial Reports* volume)

- **CHAPTERS** (Volume chapters)
  - **174AXSLS.PDF** (Leg 174AX Summary)
  - **174AXS_1.PDF** (Ancora Site)
  - **174AXS_2.PDF** (Ocean View Site)
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- **CORES** (Visual core descriptions and digital core images)
  - **COR_ANC.PDF** (Ancora Site)
  - **COR_OVS1.PDF through COR_OVS5.PDF** (Ocean View Site)
  - **COR_BETH.PDF** (Bethany Beach Site)
- **174AXIR.PDF** (174AX *Initial Reports* volume index)
- **OVERSIZE** (Large-format figures)
  - **174AXSLS** (Leg Summary files)
- **INDEX.PDX** (Acrobat file used to enable Acrobat Search of the 174AXS *Initial Reports*)

**ODPINDEX**
(Compiled Electronic Index of the *Proceedings of the Ocean Drilling Program*)

- **101NDX.PDF through 176NDX.PDF, 178NDX.PDF, and 180NDX.PDF** (Index files)
- **NDX.PDX** (Acrobat file used to enable Acrobat Search of the Compiled Electronic Index)