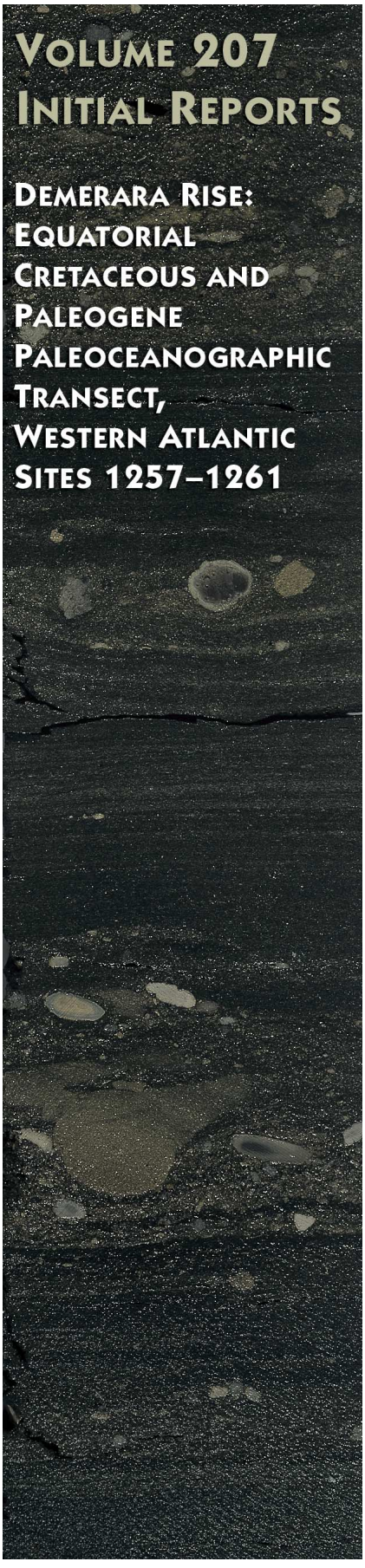
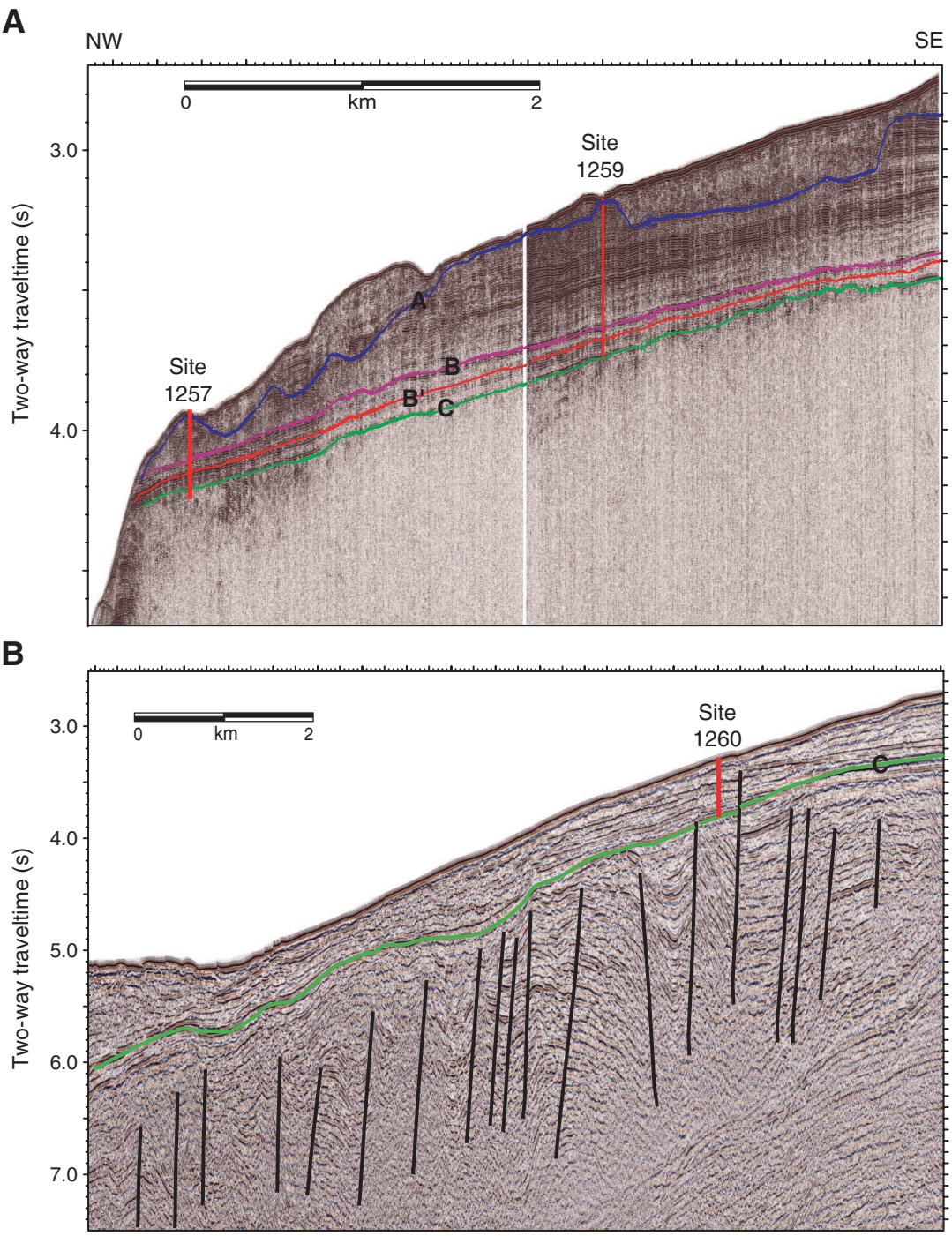


Proceedings of the Ocean Drilling Program

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



Frontispiece. Seismic reflection profiles from the flanks of the Demerara Rise. **A.** High-resolution profile acquired during *Meteor* site survey M49-4, showing the shallow stratigraphy of Leg 207 target sediments (mid-Cretaceous and younger). **B.** Industry reflection profile showing faulted and folded Early Cretaceous synrift sediments overlain by mid-Cretaceous and younger sediments. Horizon C is a significant regional unconformity that marks the transition from synrift deposition and trans-tensional tectonics during the opening of the equatorial Atlantic to hemipelagic and pelagic deposition that includes Cretaceous and Paleogene critical intervals that are the focus of Leg 207. Horizon B′ relates to the top of the Cretaceous black shale sequence, and Horizon B correlates to the K/T boundary. Horizon A is an early Miocene erosional unconformity that removed much of the Neogene succession from the flanks of the Demerara Rise.

Proceedings of the Ocean Drilling Program

Volume 207
Initial Reports
Demerara Rise: Equatorial Cretaceous and Paleogene Paleoceanographic Transect, Western Atlantic

Covering Leg 207 of the cruises of the Drilling Vessel *JOIDES Resolution*
Bridgetown, Barbados, to Rio de Janeiro, Brazil
Sites 1257–1261
11 January–6 March 2003

SHIPBOARD SCIENTISTS
Jochen Erbacher, David C. Mosher, Mitchell J. Malone,
Debora Berti, Karen L. Bice, Helen Bostock, Hans-Jürgen Brumsack, Taniel Danelian, Astrid Forster, Christine Glatz, Felix Heidersdorf, Jorijntje Henderiks, Thomas R. Janecek, Christopher Junium, Laurence Le Callonnec, Ken MacLeod, Philip A. Meyers, H. Jörg Mutterlose, Hiroshi Nishi, Richard D. Norris, James G. Ogg, A. Matthew O'Regan, Brice Rea, Philip Sexton, Helen Sturt, Yusuke Suganuma, Jürgen W. Thurow, Paul A. Wilson, Sherwood W. Wise Jr.

SHIPBOARD STAFF SCIENTIST
Mitchell J. Malone

VOLUME EDITORS
Mary Chapman,
Lorri L. Peters

VOLUME GRAPHIC DESIGNER
Jennie L. Lamb

VOLUME PRODUCTION EDITOR
Patrick H. Edwards

Reference to the whole or to part of this volume should be made as follows:

Print citation for Chapter 1:
Shipboard Scientific Party, 2004. Leg 207 summary. *In* Erbacher, J., Mosher, D.C., Malone, M.J., et al., *Proc. ODP, Init. Repts.,* 207: College Station TX (Ocean Drilling Program), 1–89.

CD-ROM volume citation:
Erbacher, J., Mosher, D.C., Malone, M.J., et al., 2004. *Proc. ODP, Init. Repts.,* 207 [CD-ROM]. Available from: Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.

CD-ROM chapter citation:
Shipboard Scientific Party, 2004. Site 1257. *In* Erbacher, J., Mosher, D.C., Malone, M.J., et al., *Proc. ODP, Init. Repts.,* 207, 1–111 [CD-ROM]. Available from: Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.

This volume also appears on the World Wide Web. See **www-odp.tamu.edu/publications** for Web citation formats.

Effective publication dates of ODP *Proceedings*

According to the International Code of Zoological Nomenclature, the date of publication of a work and of a contained name or statement affecting nomenclature is the date on which the publication was mailed to subscribers, placed on sale, or when the whole edition is distributed free of charge, mailed to institutions and individuals to whom free copies are distributed. The mailing date, *not the printing date,* is the correct one.

The printing date of this volume: March 2004

The mailing dates of recent *Proceedings of the Ocean Drilling Program:*

Volume 204 (*Initial Reports*): November 2003
Volume 205 (*Initial Reports*): November 2003
Volume 206 (*Initial Reports*): December 2003
Volume 177 (*Scientific Results*): March 2003
Volume 183 (*Scientific Results*): June 2003
Volume 186 (*Scientific Results*): October 2003

Copies of this publication may be obtained from Publications Distribution Center, Ocean Drilling Program, Texas A&M University, 1000 Discovery Drive, College Station TX 77845-9547, USA. See the ODP publication list at **www-odp.tamu.edu/publications** or contact ODP for prices and ordering information. Orders for copies require advance payment.

ISSN
Book: 0884-5883; CD-ROM: 1096-2522; World Wide Web: 1096-2158
Library of Congress 87-642-462

Publisher's Notes

This volume also appears on the World Wide Web. Any scientific corrections, revisions, or additions will be noted in the chapter (see "Chapter Notes") at **www-odp.tamu.edu/publications**.

This publication was prepared by the Ocean Drilling Program, Texas A&M University, as an account of work performed under the international Ocean Drilling Program, which is managed by Joint Oceanographic Institutions, Inc., under contract with the National Science Foundation. Funding for the program was provided by the following agencies at the time of this cruise:

Australia/Canada/Chinese Taipei/Korea Consortium for Ocean Drilling: Department of Primary Industries and Energy (Australia), Natural Resources Canada, National Taiwan University in Taipei, and Korean Institute for Geology, Mining and Minerals

Deutsche Forschungsgemeinschaft (Federal Republic of Germany)

European Science Foundation Consortium for Ocean Drilling (Belgium, Denmark, Finland, Iceland, Ireland, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, and Switzerland)

Institut National des Sciences de l'Univers–Centre National de la Recherche Scientifique (INSU-CNRS) (France)

Marine High-Technology Bureau of the State Science and Technology Commission of the People's Republic of China

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.

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).

The bulk of the shipboard-collected data from this leg is available on the World Wide Web and is accessible at **www-odp.tamu.edu/database**. If you cannot access this site or need additional data, please contact the ODP Data Librarian, Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA. E-mail: **database@odpemail.tamu.edu**.

Some core close-up photographs have been tonally enhanced to better illustrate particular features of interest.

Supplemental data on the volume CD-ROM were provided by the authors and may not conform to ODP publication formats.

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 on the volume CD-ROM in PDF format. These maps were produced using Generic Mapping Tools (GMT) of Paul Wessel and Walter H.F. Smith (**gmt.soest.hawaii.edu**).

Cover photograph (interval 207-1258B-53R-1, 8–28 cm) shows a Cretaceous black shale with concentrations of preserved fish debris and phosphoritic nodules (coproliths). The photograph was taken by ODP Photographer Cindi Prince.

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
Washington, D.C.

Ocean Drilling Program*

National Science Foundation
4201 Wilson Boulevard
Arlington VA 22230, USA
Tel: (703) 306-1581; Fax: (703) 306-0390
Web site: www.nsf.gov

Member Organizations of the Joint Oceanographic Institutions for Deep Earth Sampling (JOIDES)

Columbia University, Lamont-Doherty Earth Observatory

Florida State University

Oregon State University, College of Oceanic and Atmospheric Sciences

Pennsylvania State University, College of Earth and Mineral Sciences

Rutgers, The State University of New Jersey, Institute of Marine and Coastal Sciences and Faculty of Arts and Sciences

Stanford University, School of Earth Sciences

Texas A&M University, College of Geosciences

University of California at San Diego, Scripps Institution of Oceanography

University of California, Santa Cruz

University of Florida

University of Hawaii, School of Ocean and Earth Science and Technology

University of Miami, Rosenstiel School of Marine and Atmospheric Science

University of Michigan, College of Literature, Science, and the Arts

University of Rhode Island, Graduate School of Oceanography

University of South Florida, College of Marine Science

University of Texas at Austin, Institute for Geophysics

*At completion of ODP cruises in September 2003. See **Publisher's Notes,** p. 6, for list of funding agencies at time of cruise.

University of Washington, College of Ocean and Fishery Sciences

Woods Hole Oceanographic Institution

Australia/Canada/Chinese Taipei/Korea Consortium for Ocean Drilling: Department of Primary Industries and Energy (Australia), Natural Resources Canada, National Taiwan University in Taipei, and Korean Institute for Geology, Mining and Minerals

European Science Foundation Consortium for Ocean Drilling (Belgium, Denmark, Finland, Iceland, Ireland, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, and Switzerland)

Federal Republic of Germany, Bundesanstalt für Geowissenschaften und Rohstoffe

France, Institut National des Sciences de l'Univers–Centre National de la Recherche Scientifique (INSU-CNRS)

Japan, University of Tokyo, Ocean Research Institute

People's Republic of China, Marine High-Technology Bureau of the State Science and Technology Commission of the People's Republic of China

United Kingdom, Natural Environment Research Council

ODP Program Manager

Joint Oceanographic Institutions, Inc.
1201 New York Avenue, NW, Suite 400
Washington DC 20005, USA
Tel: (202) 232-3900; Fax: (202) 462-8754
E-mail: **info@joiscience.org**
Web site: **www.joiscience.org**

ODP Science Operator

Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station TX 77845-9547, USA
Tel: (979) 845-2673; Fax: (979) 845-4857
E-mail: **odp@odpemail.tamu.edu**
Web site: **www-odp.tamu.edu**

ODP Logging Services Operator

Borehole Research Group
Lamont-Doherty Earth Observatory
of Columbia University
PO Box 1000, 61 Route 9W
Palisades NY 10964, USA
Tel: (845) 365-8341; Fax: (845) 365-3182
E-mail: **borehole@ldeo.columbia.edu**
Web site: **www.ldeo.columbia.edu/BRG/ODP**

ODP Site Survey Data Bank

Lamont-Doherty Earth Observatory
of Columbia University
PO Box 1000, 61 Route 9W
Palisades NY 10964, USA
Tel: (845) 365-8542; Fax: (845) 365-8159
E-mail: **odp@ldeo.columbia.edu**
Web site: **www.ldeo.columbia.edu/databank**

Leg 207 Participants*

Shipboard Scientific Party

Jochen Erbacher
Co-Chief Scientist
Bundesanstalt für Geowissenschaften und Rohstoffe
Meeresgeologie und Tiefseebergbau
Stilleweg 2
30655 Hannover
Germany
erbacher@bgr.de

David C. Mosher
Co-Chief Scientist
Bedford Institute of Oceanography
Geological Survey of Canada
PO Box 1006
Dartmouth NS B2Y 4A2
Canada
dmosher@nrcan.gc.ca

Mitchell J. Malone
Staff Scientist/
Inorganic Geochemist
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station TX 77845-9547
USA

Present address (25 November 2003):
Integrated Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station TX 77845-9547
USA
malone@iodp.tamu.edu

Debora Berti
Physical Properties Specialist
Department of Oceanography
Texas A&M University
Mail Stop 3146
College Station TX 77843
USA
debora@ocean.tamu.edu

*Addresses at time of cruise, except where updated by the leg participants before publication.

Karen L. Bice
Stratigraphic Correlator/
Multisensor Track Operator
Department of Geology and Geophysics
Woods Hole Oceanographic Institution
Mail Stop 23
Woods Hole MA 02543
USA
kbice@whoi.edu

Helen Bostock
Sedimentologist
Department of Geology
Australian National University
Canberra ACT 0200
Australia
helenb@geology.anu.edu.au

Hans-Jürgen Brumsack
Inorganic Geochemist
Institut für Chemie und Biologie des Meeres (ICBM)
Carl von Ossietzky Universität Oldenburg
Postfach 2503
D-26111 Oldenburg
Lower Saxony
Germany
brumsack@icbm.de

Taniel Danelian
Paleontologist (radiolarians)
Laboratoire de Micropaléontologie, C. 104
Université Pierre et Marie Curie
4 Place Jussieu
75252 Paris Cedex 05
France
danelian@ccr.jussieu.fr

Astrid Forster
Organic Geochemist
Marine Biogeochemistry and Toxicology (MBT)
Nederlands Instituut voor Onderzoek der Zee (NIOZ)
PO Box 59
1790 AB Den Burg
Texel
The Netherlands
forster@nioz.nl

Christine Glatz
Undergraduate Student Trainee/
Sedimentologist
3703 Sandy Forks
Kingwood TX 77339
USA
discodollydiva@yahoo.com

Felix Heidersdorf
Logging Scientist
Department of Geosciences
University of Bremen
Marine Technology/Environmental Research
Klagenfurter Strasse
28359 Bremen
Germany
felixh@uni-bremen.de

Jorijntje Henderiks
Sedimentologist
Department of Geology and Geochemistry
Stockholm Universitet
Svante Arrheniusväg 8C
10691 Stockholm
Sweden
jorijntje.henderiks@geo.su.se

Thomas R. Janecek
Stratigraphic Correlator/
Multisensor Track Operator
Antarctic Research Facility
Florida State University
108 Carraway Building
Tallahassee FL 32306-4100
USA
janecek@gly.fsu.edu

Christopher Junium
Sedimentologist
Department of Geosciences
Pennsylvania State University
543 Deike Building
University Park PA 16801
USA
cjunium@geosc.psu.edu

Laurence Le Callonnec
Sedimentologist
Département de Géologie Sédimentaire
Université Pierre et Marie Curie
4 Place Jussieu, Case 116
75252 Paris Cedex 05
France
lecallon@ccr.jussieu.fr

Ken MacLeod
Sedimentologist
Department of Geological Sciences
University of Missouri, Columbia
Columbia MO 65211-1380
USA
MacLeodK@missouri.edu

Philip A. Meyers
Organic Geochemist
Department of Geological Sciences
University of Michigan
2534 C.C. Little Building
Ann Arbor MI 48109-1063
USA
pameyers@umich.edu

H. Jörg Mutterlose
Paleontologist (nannofossils)
Institut für Geologie, Mineralogie und Geophysik
Ruhr Universität Bochum
Univeristätsstrasse 150
44801 Bochum
Germany
joerg.mutterlose@ruhr-uni-bochum.de

Hiroshi Nishi
Paleontologist (foraminifers)
Graduate School of Social and Cultural Studies
Kyushu University
4-2-1 Ropponmatsu, Chuo-Ku
Fukuoka 810-8560
Japan
hnishi@rc.kyushu-u.ac.jp

Richard D. Norris
Paleontologist (foraminifers)
Scripps Institution of Oceanography
Mail Stop 0244
La Jolla CA 92093-0244
USA
rnorris@ucsd.edu

James G. Ogg
Paleomagnetist
Department of Earth and Atmospheric Sciences
Purdue University
1397 Civil Building
West Lafayette IN 47907-1397
USA
jogg@purdue.edu

A. Matthew O'Regan
Physical Properties Specialist
Graduate School of Oceanography
University of Rhode Island
Narragansett Bay Campus
Narragansett RI 02882
USA
oregan@geo.uri.edu

Brice Rea
Logging Staff Scientist
Department of Geology
University of Leicester
Leicester LE1 7RH
United Kingdom
brr2@le.ac.uk

Philip Sexton
Sedimentologist
School of Ocean and Earth Sciences
Southampton Oceanography Centre
European Way
Southampton SO14 3ZH
United Kingdom
pfs@soc.soton.ac.uk

Helen Sturt
Microbiologist
Department of Geology and Geophysics
Woods Hole Oceanographic Institution
Mail Stop 22
Woods Hole MA 02543
USA
hsturt@whoi.edu

Yusuke Suganuma
Paleomagnetist
Department of Ocean Floor Geoscience
University of Tokyo
1-15-1 Minamidai, Nakano-Ku
Tokyo 164-8639
Japan
suga@ori.u-tokyo.ac.jp

Jürgen W. Thurow
Sedimentologist
Department of Earth Sciences
University College London
Gower Street
London WC1E 6BT
United Kingdom
j.thurow@ucl.ac.uk

Paul A. Wilson
Inorganic Geochemist
School of Ocean and Earth Sciences
Southampton Oceanography Centre
European Way
Southampton SO14 3ZH
United Kingdom
paw1@soc.soton.ac.uk

Sherwood W. Wise Jr.
Paleontologist (nannofossils)
Department of Geological Sciences, 4100
Florida State University
108 Carraway Building
Tallahassee FL 32306-4100
USA
wise@gly.fsu.edu

Transocean Officials

Thomas Hardy
Master of the Drilling Vessel
Overseas Drilling Ltd.
707 Texas Avenue South, Suite 213D
College Station TX 77840-1917
USA

Wayne Malone
Drilling Superintendent
Overseas Drilling Ltd.
707 Texas Avenue South, Suite 213D
College Station TX 77840-1917
USA

ODP Shipboard Personnel

Lisa Brandt
Marine Laboratory Specialist (Chemistry)

Grace Castellini
Marine Laboratory Specialist (Core)

Lisa Crowder
Marine Laboratory Specialist
(Underway Geophysics)

David Fackler
Programmer

Randy Gjesvold
Marine Electronics Specialist

Dennis Graham
Marine Laboratory Specialist (Chemistry)

Ted Gustafson
Marine Laboratory Specialist
(Downhole Tools/Thin Sections)

Margaret Hastedt
Marine Computer Specialist

Scott Herman
Marine Laboratory Specialist (Paleomagnetism)

Michiko Hitchcox
Marine Laboratory Specialist (Yeoperson)

Eric Jackson
Marine Laboratory Specialist (Core)

Tomomi Kondo
Marine Laboratory Specialist (Core)

Michael Meiring
Marine Electronics Specialist (X-Ray)

William Mills
Laboratory Officer

Erik Moortgat
Marine Computer Specialist

Chieh Peng
Assistant Laboratory Officer/Storekeeper

Thomas Pettigrew
Operations Manager

Cyndi Prince
Marine Laboratory Specialist (Photography)

Mads Radsted
Marine Laboratory Specialist
(Physical Properties)

Kerry Swain
Schlumberger Logging Engineer

Paula Weiss
Marine Laboratory Specialist (Curation)

Publication Services Staff*

Karen Benson
Production Specialist II

A. Tyler Caviness
Student Assistant

Gudelia ("Gigi") Delgado
Senior Publications Coordinator

Patrick H. Edwards
Production Specialist III

Jaime A. Gracia
Supervisor of Production

Mendy A. Harrison
Assistant Editor

Kathryn K. Johnson
Graphics Specialist

Jennie L. Lamb
Graphics Specialist II

Ginny Lowe
Editor

Nancy H. Luedke
Graphics Specialist II

Amy McWilliams
Editor

Angeline T. Miller
Interim Publication Services Manager

Mary Elizabeth Mitchell
Publications Coordinator Assistant

Heather M. Nevill
Editor

Deborah L. Partain
Supervisor of Graphics

Lorri L. Peters
Interim Supervisor of Editing

M. Kathleen Phillips
Publications Specialist

Jennifer Pattison Rumford
Electronic Publications Specialist

Kenneth Sherar
Production Specialist II

Katherine W. Steuer
Student Assistant

Ann Yeager
Distribution Specialist

*At time of publication.

Acknowledgments

The Scientific Party of Ocean Drilling Program (ODP) Leg 207 would foremost like to express their appreciation to the ODP shipboard technicians and shore-based support and publication staff. They make this program a success. Captain Tom Hardy and Transocean officers and crew and Catermar staff on the *JOIDES Resolution* provided exceptional shipboard services. Leg 207 was not only a success but a great experience because of their efforts. We would like to thank Shell EP International Ventures Inc. and, in particular, Tom Riddle for supplying industry seismic reflection data over the Demerara Rise. Efforts in reprocessing these data by Heinrich Meyer at the Federal Institute for Geosciences and Natural Resources, Germany, are greatly appreciated. Drs. Volkhard Spiess, Lars Zuehlsdorff, and Gerhardt Fischer of the University of Bremen and Captain Kull and crew of the expedition *Meteor* M49-4 acquired the site survey seismic and bathymetry data for Leg 207. These data and hence their efforts were invaluable to the project. We would like to thank the Extreme Climates PPG and the other ODP panels for supporting and providing valuable comments for the Leg 207 proposal. Walter Hale and staff at the Bremen Core Repository provided exceptional service for the postcruise sampling party—thank you.

Finally, the Leg 207 staff would like to thank Davey Jones and his SeaDog and King Neptune and his Royal Court for visiting the *JOIDES Resolution* to induct 27 dishonorable polywogs to the honorable league of Shellbacks at the Leg 207 equator crossing.

CD-ROM Contents: Chapters

CD-ROM Contents: Core Descriptions

Visual core descriptions (VCDs), smear slide and thin section data tables, and digital images are included in this section. VCDs, smear slide data tables, and thin sections are combined into one PDF file for each site. ASCII versions of the smear slide data tables are included in the VOLUME\TABLES directory (see **"ASCII Tables"**).

Site 1257

Visual Core Descriptions · **Smear Slides** · **Thin Sections**

Site 1258

Visual Core Descriptions · **Smear Slides** · **Thin Sections**

Site 1259

Visual Core Descriptions · **Smear Slides** · **Thin Sections**

Site 1260

Visual Core Descriptions · **Smear Slides** · **Thin Sections**

Site 1261

Visual Core Descriptions · **Smear Slides** · **Thin Sections**

CD-ROM Contents: ASCII Tables

The *Initial Reports* CD-ROM contains ASCII versions of edited paleomagnetism, *P*-wave velocity, and index properties data tables from the site chapters and all of the smear slide data tables presented under "Core Descriptions." A complete listing of the ASCII tables can be found listed below.

You can access these data directly from the PDF files. Depending on your computer platform, the following information applies.

PC computers

By default, double-clicking on a filename with a .TXT extension will launch the Notepad application. You can configure your computer's operating system so that files on this CD with .TXT extensions automatically open in other software, such as Microsoft Excel. Follow these steps from the pull-down menu: Windows 95 and NT operating systems: View > Options > File Types; and Windows 98, 2000, ME, and XP systems: View > Folder Options > File Types.

Macintosh computers

All table files with .TXT extensions will automatically open into Excel. If you do not have Excel installed on your computer, you may view these files through other spreadsheet or text-editor programs. Open the application of your choice, select File > Open, and open the ASCII file.

UNIX computers

You can open files with .TXT extensions in any text editor or spreadsheet program but not directly from PDF files.

Smear Slide Data Tables

Thin Section Data Tables

CD-ROM Contents: Oversized Material

These oversized figures and tables are available on the volume CD-ROM in PDF format.

Chapter 4

Figure F8. Shipboard paleomagnetic data and initial interpretations of inclination clusters of the Oligocene–Cretaceous from Holes 1257A, 1257B, and 1257C.
Table T4. Distribution of planktonic foraminifers, Hole 1257A.

Chapter 5

Figure F11. Shipboard paleomagnetic data and initial interpretations of inclination clusters of the Eocene–Cretaceous of Holes 1258A, 1258B, and 1258C.
Table T4. Distribution of planktonic foraminifers, Hole 1258A.
Table T7. Distribution of planktonic foraminifers, Hole 1258B.
Table T10. Characteristic directions of minicores, Holes 1258A and 1258B.

Chapter 6

Figure F12. Shipboard paleomagnetic data and initial interpretations of inclination clusters of the Cretaceous–Miocene from Holes 1259A, 1259B, and 1259C.
Table T4. Distribution of planktonic foraminifers, Hole 1259A.

Chapter 7

Figure F11. Shipboard paleomagnetic data and initial interpretations of inclination clusters in the Cretaceous–Oligocene of Holes 1260A and 1260B.
Table T4. Distribution of planktonic foraminifers, Hole 1260A.
Table T8. Distribution of planktonic foraminifers, Hole 1260B.

Chapter 8

Figure F9. Shipboard paleomagnetic data and initial interpretations of inclination clusters in the Cretaceous–Miocene from Holes 1261A and 1261B.
Table T4. Distribution of planktonic foraminifers, Hole 1261A.

CD-ROM Contents: Supplementary Material

The *Initial Reports* CD-ROM contains supplementary data files presented as Excel 97/98 spreadsheets. The files present expanded coring summary tables, MST splice tables, and radiolarian paleontological data. Supplementary material files are located in the SUPP_MAT directory.

COR_SUMM
- 1257ECS.XLS
- 1258ECS.XLS
- 1259ECS.XLS
- 1260ECS.XLS
- 1261ECS.XLS

MST_SPL

1257MST

1257DATA
- GRA1257A.XLS
- GRA1257B.XLS
- GRA1257C.XLS
- MSL1257A.XLS
- MSL1257B.XLS
- MSL1257C.XLS
- NCR1257A.XLS
- NCR1257B.XLS
- NCR1257C.XLS
- NGR1257A.XLS
- NGR1257B.XLS
- NGR1257C.XLS
- RAT1257A.XLS
- RAT1257B.XLS
- RAT1257C.XLS
- RSC1257A.XLS
- RSC1257B.XLS
- RSC1257C.XLS

1257SPL
- GRA_SPL.DAT
- MSL_SPL.DAT
- NCR_SPL.DAT
- NGR_SPL.DAT
- RAT_SPL.DAT
- RSC_SPL.DAT

1258MST

1258DATA
- GRA1258A.XLS
- GRA1258B.XLS
- GRA1258C.XLS
- MSL1258A.XLS
- MSL1258B.XLS
- MSL1258C.XLS
- NCR1258A.XLS
- NCR1258B.XLS
- NCR1258C.XLS
- NGR1258A.XLS
- NGR1258B.XLS
- NGR1258C.XLS

RAT1258A.XLS
RAT1258B.XLS
RAT1258C.XLS
RSC1258A.XLS
RSC1258B.XLS
RSC1258C.XLS

1258SPL
GRA_SPL.DAT
MSL_SPL.DAT
NCR_SPL.DAT
NGR_SPL.DAT
RAT_SPL.DAT
RSC_SPL.DAT

1259MST
1259DATA
GRA1259A.XLS
GRA1259B.XLS
GRA1259C.XLS
MSL1259A.XLS
MSL1259B.XLS
MSL1259C.XLS
NGR1259A.XLS
NGR1259B.XLS
NGR1259C.XLS
RAT1259A.XLS
RAT1259B.XLS
RAT1259C.XLS
RSC1259A.XLS
RSC1259B.XLS
RSC1259C.XLS

1259SPL
GRA_SPL1.DAT
GRA_SPL2.DAT
GRA_SPL3.DAT
MSL_SPL1.DAT
MSL_SPL2.DAT
MSL_SPL3.DAT
NGR_SPL1.DAT
NGR_SPL2.DAT
NGR_SPL3.DAT
RAT_SPL1.DAT
RAT_SPL2.DAT
RAT_SPL3.DAT
RSC_SPL1.DAT
RSC_SPL2.DAT
RSC_SPL3.DAT

1260MST
1260DATA
GRA1260A.XLS
GRA1260B.XLS
MSL1260A.XLS
MSL1260B.XLS
NGR1260A.XLS
NGR1260B.XLS
RAT1260A.XLS
RAT1260B.XLS
RSC1260A.XLS
RSC1260B.XLS

1260SPL
- GRA_SPL1.DAT
- GRA_SPL2.DAT
- GRA_SPL3.DAT
- MSL_SPL1.DAT
- MSL_SPL2.DAT
- MSL_SPL3.DAT
- NGR_SPL1.DAT
- NGR_SPL2.DAT
- NGR_SPL3.DAT
- RAT_SPL1.DAT
- RAT_SPL2.DAT
- RAT_SPL3.DAT
- RSC_SPL1.DAT
- RSC_SPL2.DAT
- RSC_SPL3.DAT

1261MST

1261DATA
- GRA1261A.XLS
- GRA1261B.XLS
- MSL1261A.XLS
- MSL1261B.XLS
- NGR1261A.XLS
- NGR1261B.XLS
- RAT1261A.XLS
- RAT1261B.XLS
- RSC1261A.XLS
- RSC1261B.XLS

1261SPL
- GRA_SPL.DAT
- MSL_SPL.DAT
- NGR_SPL.DAT
- RAT_SPL.DAT
- RSC_SPL.DAT

PAL_RAD
- 1257RAD.XLS
- 1258RAD.XLS
- 1259RAD.XLS
- 1260RAD.XLS
- 1261RAD.XLS

README.TXT

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 207 Site Map

ODP Map (Legs 100–207)

DSDP Map (Legs 1–96)

Related Leg Data

Downhole Logging and Core Data

A CD-ROM containing processed logging data and a subset of core data is included with the printed version of this volume. However, a more complete set of the logging data collected by ODP Logging Services is available online at **www.ldeo.columbia.edu/BRG/ODP/DATABASE/DATA/search.html**. If you have problems downloading the data, wish to receive additional logging data, or have questions regarding the data, please contact: Data Services Manager, ODP Logging Services, Borehole Research Group, Lamont-Doherty Earth Observatory of Columbia University, PO Box 1000, 61 Route 9W, Palisades NY 10964, USA; Tel: (845) 365-8343; Fax: (845) 365-3182; E-mail: **logdb@ldeo.columbia.edu**.

The majority of the core data on the CD are available on the Web at **www-odp.tamu.edu/database**. If you cannot access the ODP database or need additional data, please contact: ODP Data Librarian, Ocean Drilling Program, Texas A&M University, 1000 Discovery Drive, College Station TX 77845-9547, USA; Tel: (979) 845-8495; Fax: (979) 458-1617; E-mail: **database@odpemail.tamu.edu**.

Compiled Electronic Index

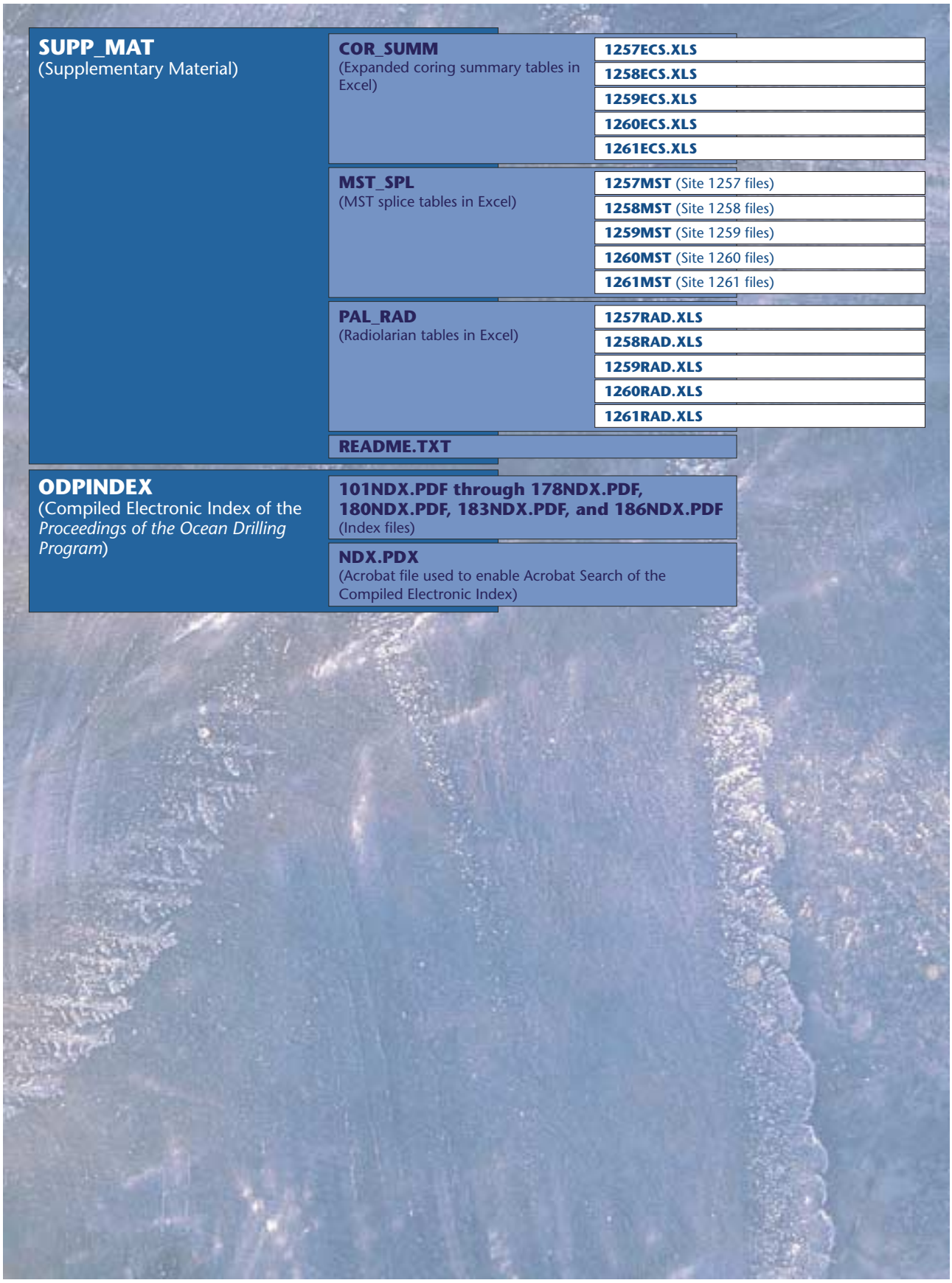
The Compiled Electronic Index of the *Proceedings of the Ocean Drilling Program* included on the volume CD-ROM contains individual indexes of Volumes 101–178, 180, 183, and 186. The indexes are contained in the directory titled ODPINDEX and are named ###NDX.PDF (### = the leg number). These indexes can be searched individually or collectively.

CD-ROM Directory Structure

- **207IR.PDF** (Preliminary pages and table of contents)
- **README.PDF** (Information about the volume CD-ROM)
- **README.TXT** (ASCII version of information about the volume CD-ROM)
- **ACROREAD** (Acrobat Reader installation software and instructions for different platforms)
  - **MAC**
  - **WINDOWS**
  - **UNIX**
  - **README.TXT**
- **MAPS** (Drilling location maps)
  - **207_MAP.PDF** (Leg 207 site map)
  - **ODPMAP.PDF** (ODP map, Legs 100 through 207)
  - **DSDPMAP.PDF** (DSDP map, Legs 1 through 96)
- **VOLUME** (Leg 207 *Initial Reports* volume)
  - **CHAPTERS** (Volume chapters)
    - **IR207_01.PDF** (Leg 207 Summary)
    - **IR207_02.PDF** (Explanatory Notes)
    - **IR207_03.PDF** (Site Survey and Underway Geophysics)
    - **IR207_04.PDF** (Site 1257)
    - **IR207_05.PDF** (Site 1258)
    - **IR207_06.PDF** (Site 1259)
    - **IR207_07.PDF** (Site 1260)
    - **IR207_08.PDF** (Site 1261)
    - **IR207_09.PDF** (Microbial Gases)
    - **IR207_10.PDF** (Hydrocarbon Biomarkers)
  - **CORES** (Visual core descriptions, smear slide data tables, thin section data tables, and digital core images)
    - **COR_1257.PDF** (Site 1257)
    - **COR_1258.PDF** (Site 1258)
    - **COR_1259.PDF** (Site 1259)
    - **COR_1260.PDF** (Site 1260)
    - **COR_1261.PDF** (Site 1261)
    - **IMAGES** (PDF files of core images)
  - **TABLES** (ASCII versions of paleomagnetism, *P*-wave velocity, index properties, smear slide, and thin section data tables)
    - **IR207_04** (Site 1257 files)
    - **IR207_05** (Site 1258 files)
    - **IR207_06** (Site 1259 files)
    - **IR207_07** (Site 1260 files)
    - **IR207_08** (Site 1261 files)
    - **S_SLIDES** (Sites 1257 through 1261)
    - **T_SECT** (Sites 1257 through 1261)
    - **README.TXT**
  - **OVERSIZE** (Large-format figures and tables)
    - **IR207_04** (Site 1257 files)
    - **IR207_05** (Site 1258 files)
    - **IR207_06** (Site 1259 files)
    - **IR207_07** (Site 1260 files)
    - **IR207_08** (Site 1261 files)
  - **INDEX.PDX** (Acrobat file used to enable Acrobat Search of the Leg 207 *Initial Reports*)

(Continued on next page)

CD-ROM Directory Structure (continued).



- **SUPP_MAT** (Supplementary Material)
  - **COR_SUMM** (Expanded coring summary tables in Excel)
    - **1257ECS.XLS**
    - **1258ECS.XLS**
    - **1259ECS.XLS**
    - **1260ECS.XLS**
    - **1261ECS.XLS**
  - **MST_SPL** (MST splice tables in Excel)
    - **1257MST** (Site 1257 files)
    - **1258MST** (Site 1258 files)
    - **1259MST** (Site 1259 files)
    - **1260MST** (Site 1260 files)
    - **1261MST** (Site 1261 files)
  - **PAL_RAD** (Radiolarian tables in Excel)
    - **1257RAD.XLS**
    - **1258RAD.XLS**
    - **1259RAD.XLS**
    - **1260RAD.XLS**
    - **1261RAD.XLS**
  - **README.TXT**
- **ODPINDEX** (Compiled Electronic Index of the *Proceedings of the Ocean Drilling Program*)
  - **101NDX.PDF through 178NDX.PDF, 180NDX.PDF, 183NDX.PDF, and 186NDX.PDF** (Index files)
  - **NDX.PDX** (Acrobat file used to enable Acrobat Search of the Compiled Electronic Index)