

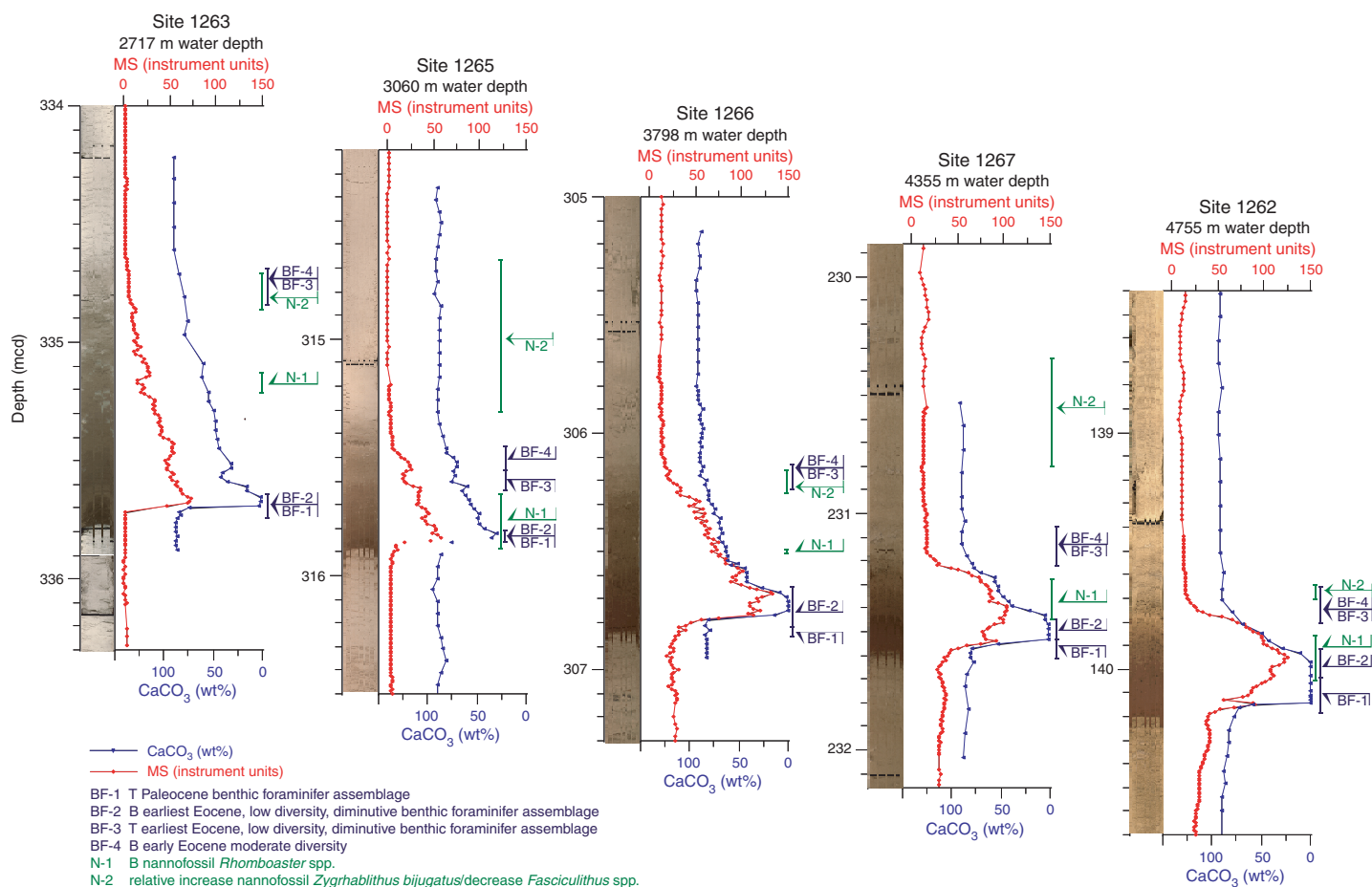
**EARLY CENOZOIC
EXTREME CLIMATES:
THE WALVIS RIDGE TRANSECT**

SITES 1262-1267

**VOLUME 208
INITIAL REPORTS**

**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. Composite digital images, magnetic susceptibility (MS), and CaCO₃ through the Paleocene–Eocene transition at the shallow to deep transect. The MS graphs represent both point magnetic susceptibility (PMS) data measured on the split core and loop sensor (MSL) data measured on the whole core. For correlation of these two methods, 1-cm resolution PMS data were linearly interpolated at 2.5-cm resolution, after which a linear expansion formula was calculated and PMS values were normalized to MSL values: $MSL = 2.0683 \times PMS + 7.8257$ ($r^2 = 0.9885$). For Site 1263, MS data from Hole 1263C are spliced with data from Hole 1263D at 335.88 meters composite depth (mcd). Sample depths for Hole 1263D were normalized to Hole 1263C mcd using a linear expansion based on PMS correlation through the P/E transition: Hole 1263C mcd = Hole 1263D mcd \times 1.383 – 128.45. For Site 1262, sample depths of CaCO₃ data from Hole 1262A (Core 208-1262A-13H) were normalized to Hole 1262B mcd using a linear expansion based on PMS correlation through the lower part of the P/E transition: Hole 1262B mcd = Hole 1262A mcd \times 1.1343 – 18.785 ($r^2 = 0.996$; only for data below 139.95 mcd). At Site 1266, CaCO₃ data from Hole 1266B (Section 208-1266B-6H-7) give way to Hole 1266C values at 306.56 mcd. T = top (last occurrence), B = bottom (first occurrence).

PROCEEDINGS OF THE OCEAN DRILLING PROGRAM

Volume 208

Initial Reports

Early Cenozoic Extreme Climates: The Walvis Ridge Transect

Covering Leg 208 of the cruises of the Drilling Vessel *JOIDES Resolution*

Rio de Janeiro, Brazil, to Rio de Janeiro, Brazil

Sites 1262–1267

6 March–6 May 2003

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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 close-up core 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 standards.

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 of the *JOIDES Resolution* rig at sunrise was taken by Co-Chief Scientist Jim Zachos.

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

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CD-ROM CONTENTS: CHAPTERS

1. **Leg 208 Summary**
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CD-ROM CONTENTS: CORE DESCRIPTIONS

Visual core descriptions (VCDs), smear slide data tables, and digital images are included in this section. VCDs and smear slide data tables are combined into one PDF file for each site. ASCII versions of smear slide data tables are also available (see [“ASCII Tables”](#)).

Site 1262

[Visual Core Descriptions · Smear Slides](#)

Site 1263

[Visual Core Descriptions · Smear Slides](#)

Site 1264

[Visual Core Descriptions · Smear Slides](#)

Site 1265

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Site 1267

[Visual Core Descriptions · Smear Slides](#)

CD-ROM CONTENTS: ASCII TABLES

This CD-ROM contains **ASCII** versions of edited age model, mass accumulation rate, and splice tie data tables from the site chapters, an age control point table from the “Leg 208 Summary” chapter, and all of the **smear slide data tables** presented under “Core Descriptions.” A complete listing of the ASCII tables can be found 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.

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Smear Slide Data Tables

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CD-ROM CONTENTS: SUPPLEMENTARY MATERIAL

The *Initial Reports* CD-ROM contains supplementary material data files presented as Excel 97/98 spreadsheets. The files present calcareous nannofossil and planktonic and benthic foraminifer paleontological data. Supplementary material files are located in the SUPP_MAT directory.

PALEONTL

1262_PAL

BENTHIC

03_T09.XLS

CALC_NAN

03_T05.XLS

03_T07.XLS

PLANKTIC

03_T06.XLS

03_T08.XLS

1263_PAL

BENTHIC

04_T09.XLS

CALC_NAN

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BENTHIC

05_T09.XLS

CALC_NAN

05_T05.XLS

05_T07.XLS

PLANKTIC

05_T06.XLS

05_T08.XLS

1265_PAL

BENTHIC

06_T09.XLS

CALC_NAN

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PLANKTIC

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1266_PAL

BENTHIC

07_T09.XLS

CALC_NAN

07_T05.XLS

07_T06.XLS

PLANKTIC

07_T07.XLS

07_T08.XLS

1267_PAL

BENTHIC

08_T09.XLS

CALC_NAN

08_T05.XLS

08_T06.XLS

PLANKTIC

08_T07.XLS

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README.TXT

CD-ROM CONTENTS: DRILLING LOCATION MAPS

Two site maps 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.

[ODP Leg 208 Site Map A](#)

[ODP Leg 208 Site Map B](#)

[ODP Map](#) (Legs 100–208)

[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, 181, 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. For information on using the Acrobat search function, see [“Searching a PDF Document”](#) in README.PDF.

CD-ROM DIRECTORY STRUCTURE

208IR.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)

208_MAPA.PDF (Leg 208 site map)

208_MAPB.PDF (Leg 208 site map, continued)

ODPMAP.PDF (ODP map, Legs 100 through 208)

DSDPMAP.PDF (DSDP map, Legs 1 through 96)

VOLUME

(Leg 208 *Initial Reports* volume)

CHAPTERS

(Volume chapters)

IR208_01.PDF (Leg 208 Summary)

IR208_02.PDF (Explanatory Notes)

IR208_03.PDF (Site 1262)

IR208_04.PDF (Site 1263)

IR208_05.PDF (Site 1264)

IR208_06.PDF (Site 1265)

IR208_07.PDF (Site 1266)

IR208_08.PDF (Site 1267)

CORES

(Visual core descriptions, smear slide data tables, and digital core images)

COR_1262.PDF (Site 1262)

COR_1263.PDF (Site 1263)

COR_1264.PDF (Site 1264)

COR_1265.PDF (Site 1265)

COR_1266.PDF (Site 1266)

COR_1267.PDF (Site 1267)

IMAGES (PDF files of core images)

TABLES

(ASCII versions of age control point, age model, mass accumulation rate, splice tie point, and smear slide data tables)

IR208_01 (Leg 208 Summary file)

IR208_03 (Site 1262 files)

IR208_04 (Site 1263 files)

IR208_05 (Site 1264 files)

IR208_06 (Site 1265 files)

IR208_07 (Site 1266 files)

IR208_08 (Site 1267 files)

S_SLIDES (Sites 1262 through 1267)

README.TXT

OVERSIZE

(Large-format tables)

IR208_04 (Site 1263 files)

IR208_05 (Site 1264 files)

IR208_06 (Site 1265 files)

IR208_07 (Site 1266 files)

IR208_08 (Site 1267 files)

(Continued on next page)

CD-ROM DIRECTORY STRUCTURE (CONTINUED)

VOLUME
(Continued)

INDEX.PDX

(Acrobat file used to enable Acrobat Search of the Leg 208 *Initial Reports*)

SUPP_MAT
(Supplementary Material)

PALEONTL

(Excel 97/98 spreadsheets of calcareous nannofossil and benthic and planktonic foraminifer paleontological data)

1262_PAL (Site 1262 files)

1263_PAL (Site 1263 files)

1264_PAL (Site 1264 files)

1265_PAL (Site 1265 files)

1266_PAL (Site 1266 files)

1267_PAL (Site 1267 files)

README.TXT

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

101NDX.PDF through 178NDX.PDF, 180NDX.PDF, 181NDX.PDF, 183NDX.PDF, and 186NDX.PDF

(Index files)

NDX.PDX

(Acrobat file used to enable Acrobat Search of the Compiled Electronic Index)