



VOLUME 205
INITIAL REPORTS

**FLUID FLOW AND SUBDUCTION FLUXES
ACROSS THE COSTA RICA CONVERGENT
MARGIN: IMPLICATIONS FOR THE
SEISMOGENIC ZONE AND
SUBDUCTION FACTORY
SITES 1253–1255**

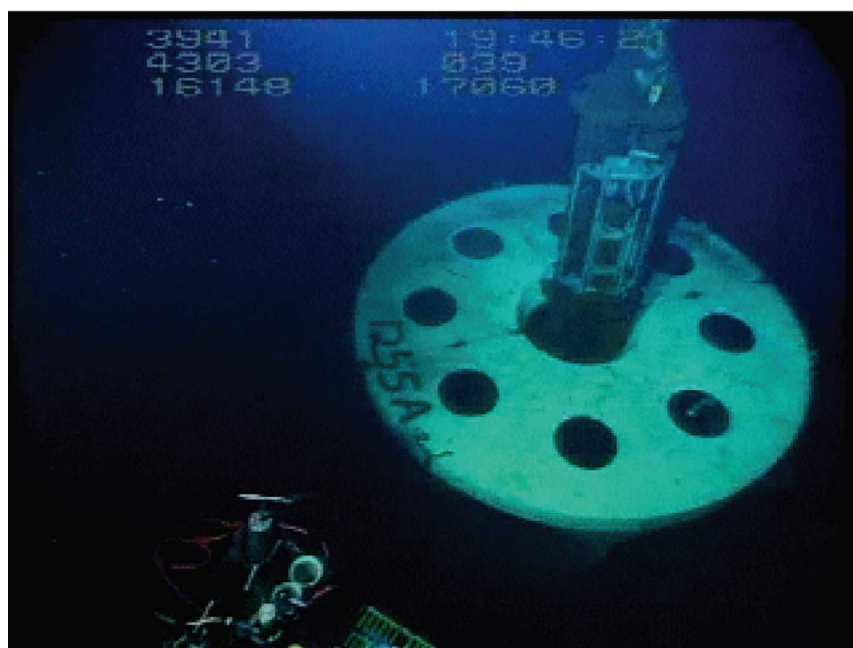
**PROCEEDINGS OF THE
OCEAN DRILLING PROGRAM**

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

A



B



Frontispiece. A. CORK-II long-term geochemical observatory installation at Site 1253. B. CORK-II long-term geochemical observatory installation at Site 1255.

PROCEEDINGS OF THE OCEAN DRILLING PROGRAM

Volume 205

Initial Reports

Fluid Flow and Subduction Fluxes across the Costa Rica
Convergent Margin: Implications for the Seismogenic
Zone and Subduction Factory

Covering Leg 205 of the cruises of the Drilling Vessel *JOIDES Resolution*

Victoria, Canada, to Balboa, Panama

Sites 1253–1255

2 September–6 November 2002

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

Print citation for Chapter 1:

Shipboard Scientific Party, 2003. Leg 205 summary. *In* Morris, J.D., Villinger, H.W., Klaus, A., et al., *Proc. ODP, Init. Repts., 205*: College Station TX (Ocean Drilling Program), 1–75.

CD-ROM volume citation:

Morris, J.D., Villinger, H.W., Klaus, A., et al., 2003. *Proc. ODP, Init. Repts., 205* [CD-ROM]. Available from: Ocean Drilling Program, Texas A&M University, College Station TX 77845-9547, USA.

CD-ROM chapter citation:

Shipboard Scientific Party, 2003. Site 1253. *In* Morris, J.D., Villinger, H.W., Klaus, A., et al., *Proc. ODP, Init. Repts., 205*, 1–184 [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: November 2003

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

Volume 201 (*Initial Reports*): May 2003

Volume 202 (*Initial Reports*): October 2003

Volume 203 (*Initial Reports*): June 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 close-up photographs of very dark cores have been tonally enhanced to better illustrate particular features of interest.

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 is a storm threatening the horizon off the *JOIDES Resolution* by ODP Photographer John Beck.

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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*At time of publication. See [Publisher's Notes](#), p. 6, 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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ACKNOWLEDGMENTS

The scientific party of Ocean Drilling Program (ODP) Leg 205 wishes to express its sincere thanks to the many individuals who made the leg a major success.

Several groups played a vital role when preparing for the leg. The CORK-IIs installed during Leg 205 would not have been possible without the many years of work Keir Becker, Earl Davis, Miriam Kastner, and Tom Pettigrew have spent creating and developing previous CORK systems. The OsmoSampler team at Monterey Bay Aquarium Research Institute under the guidance of Hans Jannasch together with the CORK-II team headed by Tom Pettigrew (ODP) and Earl Davis from Pacific Geoscience Center, Canada, worked hard to set up all of the OsmoSampler and CORK hardware during the Victoria (Canada) port call; everything was ready to go when *JOIDES Resolution* left Victoria, and all we had to do was to drill holes and install them. Following Leg 205, Keir Becker generously redirected an *Alvin* dive from his own research program so that we could visit the Leg 205 CORK-IIs to ensure they were working properly. The United States National Science Foundation helped support this *Alvin* dive and also assisted in securing clearance for dive operations.

That we succeeded in installing two CORK-IIs in such a difficult drilling environment was only possible because of the very competent professional shipboard team. Captain Tom Hardy and his crew made sure that we always stayed on site during our numerous reentries—all of which were amazingly efficient. Key roles in the CORK-II deployment operations were played by Operations Manager/Engineer Tom Pettigrew, Drilling Superintendent “Pepe” Estevez, and Core Technicians “Bubba” J. Attryde and C. Bremner. They orchestrated the CORK-II installations along with the rig floor crew and ODP technical staff with incredible professionalism. Their optimism after two CORK-II installation attempts failed and their tireless work in the face of these difficulties led us to ultimate success. We wish to express our sincere thanks to all of them.

Burnette Hamlin and Paula Weiss along with their skilled team supported all our core-related work during the cruise. Marine laboratory specialists in the chemistry laboratory, Christopher Bennight and Lisa Brandt, along with Assistant Laboratory Officer Chieh Peng provided us with crucial “real-time” pore water chemical analyses that were required for operational decisions. “Gus” Gustafson was

instrumental in making thin sections for our search for true oceanic basement. Michiko Hitchcox's painstaking care and perseverance contributed substantially to our science results and helped us to stay on top of our "paperwork," making it possible for us to finish our draft *Initial Reports* volume. We are very grateful for their patience with us as well as their hard and dedicated work.

The co-chief scientists would like to express their gratitude to Adam Klaus, who taught us in a very clear and determined way "how to be a co-chief" right from the beginning of the leg. He supported our work with his expert advice, which was especially needed in sometimes difficult and tense moments. Finally, we also would like to thank the ODP Publication Services staff for their hard work in producing this volume.

CD-ROM CONTENTS: CHAPTERS

1. Leg 205 Summary

Shipboard Scientific Party

2. CORK-II: Long-Term Monitoring of Fluid Chemistry, Fluxes, and Hydrology in Instrumented Boreholes at the Costa Rica Subduction Zone

Hans W. Jannasch, Earl E. Davis, Miriam Kastner, Julie D. Morris, Thomas L. Pettigrew, Josh N. Plant, Evan A. Solomon, Heinrich W. Villinger, and C. Geoffrey Wheat

3. Explanatory Notes

Shipboard Scientific Party

4. Site 1253

Shipboard Scientific Party

5. Site 1254

Shipboard Scientific Party

6. Site 1255

Shipboard Scientific Party

CD-ROM CONTENTS: CORE DESCRIPTIONS

Digital images and visual core descriptions (VCDs) and smear slide and thin section data tables are included in this section. A photomicrograph log can be found in the VOLUME\CORES\PHOTOMIC directory.

Site 1253

[Visual Core Descriptions](#) · [Smear Slides](#) · [Thin Sections](#)

Site 1254

[Visual Core Descriptions](#) · [Smear Slides](#)

Site 1255

[Visual Core Descriptions](#) · [Smear Slides](#)

CD-ROM CONTENTS: ASCII TABLES

This CD-ROM contains ASCII versions of the smear slide data tables. 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.

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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.

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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

Smear Slide Data Tables

Site 1253 smear slide table.

Site 1254 smear slide table.

Site 1255 smear slide table.

CD-ROM CONTENTS: QUICKTIME MOVIES

These movies are available on this CD-ROM and may be viewed from within the respective chapter PDF file or opened directly from the MOVIES directory. QuickTime 6.3 software is provided on the CD-ROM but is available only for the Macintosh and Windows platforms. Please see “[QuickTime Software](#)” in README.PDF for information on installing the software. Please see [\QUIKTIME\README.TXT](#) for information on minimum system requirements. QuickTime and the QuickTime logo are trademarks used under license. The QuickTime logo is registered in the U.S. and other countries.

Chapter 1

[Figure F31](#). CORK head at Site 1253.

[Figure F32](#). CORK head at Site 1255.

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 205 Site Map](#)

[ODP Map](#) (Legs 100–205)

[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.ideo.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@ideo.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

205IR.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)	205_MAP.PDF (Leg 205 site map)	
	ODPMAP.PDF (ODP map, Legs 100 through 205)	
	DSDPMAP.PDF (DSDP map, Legs 1 through 96)	
VOLUME (Leg 205 <i>Initial Reports</i> volume)	CHAPTERS (Volume chapters)	IR205_01.PDF (Leg 205 Summary)
		IR205_02.PDF (CORK II-Sampling and Monitoring)
		IR205_03.PDF (Explanatory Notes)
		IR205_04.PDF (Site 1253)
		IR205_05.PDF (Site 1254)
		IR205_06.PDF (Site 1255)
	CORES (Visual core descriptions, smear slide data tables, thin section data tables, digital core images, photomicrographs, and photomicrograph log)	COR_1253.PDF (Site 1253)
		COR_1254.PDF (Site 1254)
		COR_1255.PDF (Site 1255)
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TABLES (ASCII versions of smear slide data tables)	S_SLIDES (Sites 1253 through 1255)	
	README.TXT	
MOVIES (QuickTime movies)	IR205_01 (Chapter 1 files)	
	README.TXT	
INDEX.PDX (Acrobat file used to enable Acrobat Search of the Leg 205 <i>Initial Reports</i>)		
ODPINDEX (Compiled Electronic Index of the <i>Proceedings of the Ocean Drilling Program</i>)	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)	
QUIKTIME (QuickTime 6.3 installation software and instructions for different platforms)	MAC	
	WINDOWS	
	README.TXT	