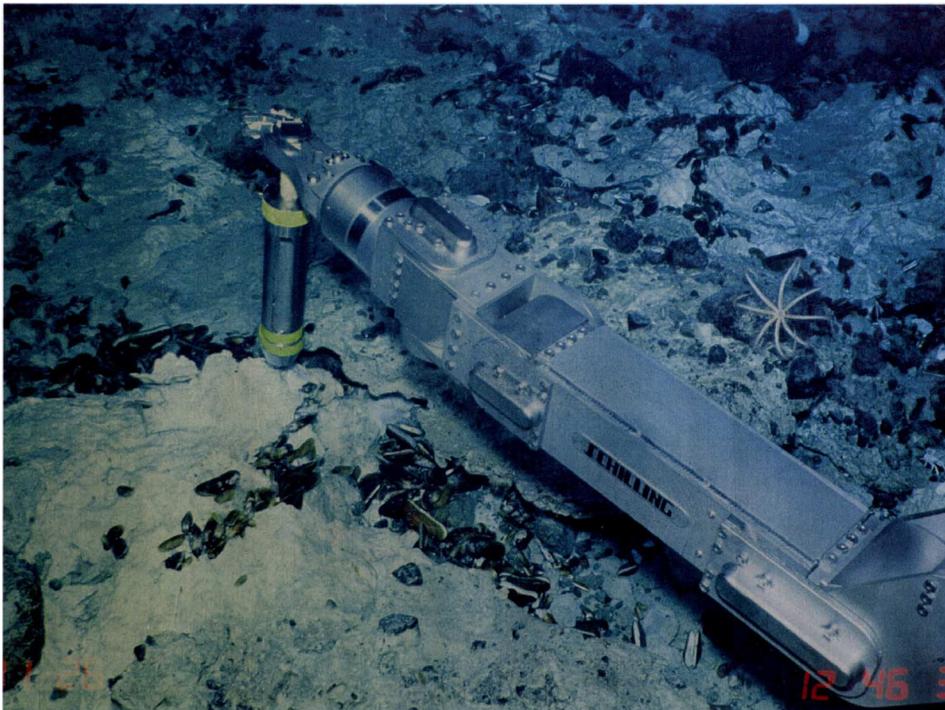


VOLUME 195 INITIAL REPORTS

SEAFLOOR OBSERVATORIES AND THE KUROSHIO CURRENT
SITES 1200-1202

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. Japan Marine Science and Technology Center (JAMSTEC) submersible *Shinkai 6500* (Dive 351) bottom photograph of the megafaunal community at Ocean Drilling Program (ODP) Site 1200 on the summit of South Chamorro Seamount, a serpentine mud volcano on the southern Mariana forearc. The submersible's manipulator arm is holding a push core to sample a small carbonate chimney (white mound immediately below core tube) at the edge of a narrow vent fissure in the serpentine muds. Mussels, likely of the genus *Bathymodiolus*, galatheid crabs, tube worms, crinoids, and gastropods are the surface manifestation of the biological community supported by the slab-derived fluids emanating from this spring (Fryer and Mottl, 1997). A microbial community recovered in Hole 1200D, near this location, persists

to 20 meters below seafloor and provides the base of the food chain supporting the surface megafaunal community.

Reference

Fryer, P., and Mottl, M., 1997. *Shinkai 6500* investigations of a resurgent mud volcano on the southeastern Mariana forarc. *JAMSTEC J. Deep Sea Res.*, 13:103–114.

PROCEEDINGS OF THE OCEAN DRILLING PROGRAM

Volume 195

Initial Reports

Seafloor Observatories and the Kuroshio Current

Covering Leg 195 of the cruises of the Drilling Vessel *JOIDES Resolution*
Apra Harbor, Guam, to Keelung, Chinese Taipei

Sites 1200–1202

2 March–2 May 2001

SHIPBOARD SCIENTISTS

Matthew H. Salisbury, Masanao Shinohara, Carl Richter,
Eiichiro Araki, Samantha R. Barr, Massimo D'Antonio, Simon M. Dean, Bernhard Diekmann,
K. Michelle Edwards, Patricia B. Fryer, Philippe J. Gaillot, William S. Hammon III, David Hart,
Nicole Januszczak, Stephen C. Komor, Mette B. Kristensen, John P. Lockwood, Michael J. Mottl,
Craig L. Moyer, Kazuo Nakahigashi, Ivan P. Savov, Xin Su, Kuo-Yen Wei, Tomoaki Yamada

SHIPBOARD STAFF SCIENTIST

Carl Richter

VOLUME EDITOR

Lorri L. Peters

VOLUME GRAPHIC DESIGNER

Nancy H. Luedke

VOLUME PRODUCTION EDITOR

Patrick H. Edwards

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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.

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, by Co-Chief Scientist Masanao Shinohara, is of the battery platform that was installed at Site 1202.

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 16 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)

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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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United Kingdom, Natural Environment Research Council

OCEAN DRILLING PROGRAM (ODP)

Web site: www.oceandrilling.org

ODP SCIENCE ADVISORY STRUCTURE (JOIDES)

JOIDES Office

University of Miami—RSMAS
4600 Rickenbacker Causeway
Miami FL 33149, USA

Tel: (305) 361-4668; Fax: (305) 361-4632

E-mail: joides@rsmas.miami.edu

Web site: joides.rsmas.miami.edu

ODP PROGRAM MANAGER

Joint Oceanographic Institutions, Inc.
1755 Massachusetts Avenue, NW, Suite 700
Washington DC 20036-2102, USA
Tel: (202) 232-3900; Fax: (202) 462-8754
E-mail: joisci@joisci.org
Web site: www.joisci.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
Columbia University
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
Columbia University
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 195 PARTICIPANTS*

SHIPBOARD SCIENTIFIC PARTY

Matthew H. Salisbury

Co-Chief Scientist

Geological Survey of Canada
Bedford Institute of Oceanography
PO Box 1006
Dartmouth NS B2Y 4A2
Canada

Department of Earth Sciences
Dalhousie University
Halifax NS B3H 3J5
Canada

matts@agc.bio.ns.ca

Masanao Shinohara

Co-Chief Scientist

Earthquake Research Institute
University of Tokyo
Yayoi 1-1-1, Bunkyo-ku
Tokyo 113-0032
Japan

mshino@eri.u-tokyo.ac.jp

Carl Richter

Staff Scientist/Paleomagnetist

Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station TX 77845-9547
USA

richter@odpemail.tamu.edu

Eiichiro Araki

Seismologist

Deep Sea Research Department
Japan Marine Science and Technology Center
2-15 Natsushima-cho
Yokosuka, Kanagawa 237-0061
Japan

araki@jamstec.go.jp

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

Samantha R. Barr
Logging Staff Scientist
Department of Geology
University of Leicester
University Road
Leicester LE1 7RH
United Kingdom
srb7@le.ac.uk

Massimo D'Antonio
Igneous Petrologist
Dipartimento di Scienze della Terra
Università degli Studi di Napoli "Federico II"
Largo S. Marcellino, 10
80138 Napoli
Italy
masdanto@unina.it

Simon M. Dean
Physical Properties Specialist
School of Ocean and Earth Sciences
Southampton Oceanography Centre
University of Southampton
Southampton SO14 3ZH
United Kingdom
smd9@soc.soton.ac.uk

Bernhard Diekmann
Sedimentologist
Marine Geology
Alfred Wegener Institute for Polar and Marine
Research
PO Box 12 01 61
27515 Bremerhaven
Germany

Present address (9 April 2002):
Alfred Wegener Institute for Polar and Marine
Research
Research Unit Potsdam
Telegrafenberg A43
14473 Potsdam
Germany
bdiemann@awi-potsdam.de

K. Michelle Edwards
CORK Specialist
Rosenstiel School of Marine and Atmospheric
Science
University of Miami
Marine Geology and Geophysics
4600 Rickenbacker Causeway
Miami FL 33149
USA
kedwards@rsmas.miami.edu

Patricia B. Fryer

Igneous Petrologist

Hawaii Institute of Geophysics and Planetology
School of Ocean and Earth Science and
Technology

University of Hawaii at Manoa
2525 Correa Road
Honolulu HI 96821
USA

pfryer@soest.hawaii.edu

Philippe J. Gaillot

LDEO Logging Trainee

Laboratoire de Géophysique et
Hydrodynamique en Forages, ISTEEM
Laboratoire de Tectonophysique
Centre National de la Recherche Scientifique
UM2/UMR 5568

Montpellier, Place E. Bataillon
CC056, 34095
Montpellier Cedex 5
France

gaillet@dstu.univ-montp2.fr

William S. Hammon III

**Undergraduate Student Trainee/Physical
Properties Specialist**

Center for Lithospheric Studies
University of Texas at Dallas
PO Box 830688
Richardson TX 75083-0688
USA

shammon@utdallas.edu

David Hart

Physical Properties Specialist

Department of Geology and Geophysics
University of Wisconsin–Madison
1215 West Dayton Street
Madison WI 53706
USA

Present address (1 July 2001):
Wisconsin Geological and Natural History
Survey
3817 Mineral Point Road
Madison WI 53705-5100
djhart@facstaff.wisc.edu

Nicole Januszczak
Sedimentologist

Environmental Earth Sciences
 Geology Laboratory (S435)
 University of Toronto at Scarborough
 1265 Military Trail
 Scarborough ON M1C 1A4
 Canada
janus@utsc.utoronto.ca

Stephen C. Komor
Inorganic Geochemist

Water Resources Division
 U.S. Geological Survey
 30 Brown Road
 Ithaca NY 14850
 USA
sckomor@usgs.gov

Mette B. Kristensen
**Undergraduate Student Trainee/Igneous
 Petrologist**

Department of Earth Sciences
 University of Aarhus
 CF Møllers Alle
 Building 110
 Universitetsparken
 DK-8200 Århus C
 Denmark
mette.bundgaard@geo.au.dk

John P. Lockwood
Igneous Petrologist

PO Box 479
 Volcano HI 96785
 USA
geohaz@aloha.net

Michael J. Mottl
Inorganic Geochemist

Department of Oceanography
 School of Ocean and Earth Science and
 Technology
 University of Hawaii at Manoa
 1000 Pope Road
 Honolulu HI 96822
 USA
mmottl@soest.hawaii.edu

Craig L. Moyer
Microbiologist

Biology Department
 Western Washington University
 MS 9160
 Bellingham WA 98225
 USA
cmoyer@hydro.biol.wvu.edu

Kazuo Nakahigashi**Seismologist**

Earthquake Research Institute
University of Tokyo
Yayoi 1-1-1, Bunkyo-ku
Tokyo 113-0032
Japan
kazuo@eri.u-tokyo.ac.jp

Ivan P. Savov**Igneous Petrologist**

Department of Geology, SCA 528
University of South Florida, Tampa
4202 East Fowler Avenue
Tampa FL 33620
USA
savovip@yahoo.com

Xin Su**Paleontologist (nannofossils)**

Department of Geology
China University of Geosciences
Xueyuan Road 29
Beijing 100083
People's Republic of China
xsu@cugb.edu.cn

Kuo-Yen Wei**Paleontologist (nannofossils)**

Department of Geosciences
National Taiwan University
245 Choushan Road
Taipei, Taiwan 10617
Republic of China
weiky@ms.cc.ntu.edu.tw

Tomoaki Yamada**Seismologist**

Earthquake Research Institute
University of Tokyo
1-1-1 Yayoi, Bunkyo-ku
Tokyo 113-0032
Japan
yamada@eri.u-tokyo.ac.jp

TRANSOCEAN SEDCO FOREX 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**Roy Davis**

Laboratory Officer

Charlie Endris

Marine Laboratory Specialist (Paleomagnetism)

Randy Gjesvold

Marine Electronics Specialist

Dennis Graham

Marine Laboratory Specialist (Chemistry)

Gus Gustafson

Marine Laboratory Specialist
(Downhole Tools/Thin Section)

Michiko Hitchcox

Marine Laboratory Specialist (Yeoperson)

Jessica Huckemeyer

Marine Laboratory Specialist (Curation)

Maniko Kamei

Marine Laboratory Specialist
(Core/X-Ray/Storekeeping)

Anastasia Ledwon

Marine Laboratory Specialist
(Physical Properties)

Mike Meiring

Marine Electronics Technician

David Morley

Marine Computer Specialist

Bob Olivas

Marine Laboratory Specialist (X-Ray)

Chieh Peng

Marine Laboratory Specialist (Chemistry)

Cyndi Prince

Marine Laboratory Specialist (Photography)

Darryl Schroeder

Development Engineer

Mike Storms

Operations Manager

Kerry Swain

Schlumberger Logging Engineer

Steve Tran

Marine Computer Specialist

Paula Weiss

Marine Laboratory Specialist
(Underway Geophysics Laboratory)

ODP PUBLICATIONS STAFF*

Karen Benson

Production Editor

Mary Chapman

Editor

Janalyn G. Cichowski

Assistant Editor

Gudelia (“Gigi”) Delgado

Senior Publications
Coordinator

Patrick H. Edwards

Production Editor III

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Editor

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Editor

Deborah L. Partain

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Publications Specialist

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Electronic Publications
Specialist

Kenneth Sherar

Production Editor II

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The operations of Leg 195 were carefully planned and conducted with the expert guidance of ODP Operations Manager Mike Storms and Operations Engineer Derryl Schroeder. Their expertise and advice contributed enormously to the success of challenging instrument emplacement and coring operations in three very difficult settings: the throat of an active serpentinite mud volcano in the Mariana forearc, in extremely deep water in the middle of the Philippine Sea, and in very strong currents just hours out of port.

Site survey data were critical for a successful drilling operation in the Mariana forearc area. These data are based on the results of two expeditions with the research vessels *Thomas Thompson* and *Moana Wave*. The site survey cruises were supported by the National Science Foundation and a site augmentation grant from the United States Science Support Program. We are particularly indebted to the Oregon State University coring facility for its superb support in the cheerful person of Chris Moser, to Bruce Appelgate and the Hawaii Mapping Research Group personnel for their expert assistance in the mapping efforts, and to Greg Moore for supervision of the seismic data collection, processing, and interpretation.

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CD-ROM CONTENTS: CHAPTERS

1. **Leg 195 Summary**
Shipboard Scientific Party
2. **Explanatory Notes**
Shipboard Scientific Party
3. **Site 1200**
Shipboard Scientific Party
4. **Site 1201**
Shipboard Scientific Party
5. **Site 1202**
Shipboard Scientific Party
6. **Measurement of Hydraulic Conductivity and Specific Storage
Using the Shipboard Manheim Squeezer**
D.J. Hart and W.S. Hammon III

CD-ROM CONTENTS: CORE DESCRIPTIONS

Visual core descriptions (VCDs); smear slide, thin section, and sedimentary thin section data tables; and digital core images are included in this section. ASCII versions of the smear slide and sedimentary thin section data tables are also available (see [“ASCII Tables”](#)).

Site 1200

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

Site 1201

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

Site 1202

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

CD-ROM CONTENTS: ASCII TABLES

This CD-ROM contains ASCII versions of the structural geology data table and of the **smear slide data tables** and **sedimentary thin section data table** 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.

Chapter 3

Smear slide data tables

Thin section data tables

Chapter 3

Appendix: Dimensional Characteristics of Serpentine Clasts, Hole 1200A.

Smear Slide Data Tables

Site 1200 smear slide table.

Site 1201 smear slide table.

Site 1202 smear slide table.

Thin Section Data Tables

Site 1201 sedimentary thin section table.

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 195 Site Map

ODP Map (Legs 100–195)

DSDP Map (Legs 1–96)

RELATED LEG DATA

DOWNHOLE LOGGING AND CORE DATA

A second CD-ROM is included with this volume. The “Log and Core Data” CD contains Leg 195 depth-shifted and processed downhole logging data and shipboard core logging data (color reflectance, gamma ray attenuation bulk density, magnetic susceptibility, moisture and density, and natural gamma radiation). The downhole logging data are provided by the Borehole Research Group at the Lamont-Doherty Earth Observatory, Wireline Logging Operator for ODP.

Most of the logging and core data included on this CD are available on the World Wide Web at www.ideo.columbia.edu/BRG/ODP. If you cannot access this site or want to order the CD, please contact the ODP Logging Services Operator at the Lamont-Doherty Earth Observatory, Columbia University, Route 9W, Palisades NY 10964, USA; Tel: (845) 365-8341; Fax: (845) 365-3182; E-mail: borehole@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 101–173, 174B, and 175. 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

195IR.PDF (Preliminary pages and table of contents)		
README.PDF (Information about the volume CD-ROM)		
README.TXT (Information about the volume CD-ROM in ASCII format)		
ACROREAD (Acrobat Reader 4.0.5 installation software and instructions for different platforms)	MAC	
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	UNIX	
	README.TXT	
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	ODPMAP.PDF (ODP map, Legs 100 through 195)	
	DSDPMAP.PDF (DSDP map, Legs 1 through 96)	
VOLUME (Leg 195 <i>Initial Reports</i> volume)	CHAPTERS (Volume chapters)	IR195_01.PDF (Leg 195 Summary)
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		IR195_03.PDF (Site 1200)
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		COR_1202.PDF (Site 1202)
		IMAGES (PDF files of core images)
TABLES (Data tables in ASCII format of structural geology and smear slide and sedimentary thin section data)	IR195_03 (Site 1200 file)	
	S_SLIDES (Sites 1200 through 1202 files)	
	T_SECT (Site 1201 file)	
README.TXT		
INDEX.PDX (Acrobat file used to enable Acrobat Search of the Leg 195 <i>Initial Reports</i>)		
ODPINDEX (Compiled Electronic Index of the <i>Proceedings of the Ocean Drilling Program</i>)	101NDX.PDF through 173NDX.PDF, 174BNDX.PDF, and 175NDX.PDF (Index files)	
	NDX.PDX (Acrobat file used to enable Acrobat Search of the Compiled Electronic Index)	