

Site: 1043R-A

Priority: 2

Position: 9°39.2246'N, 86°11.1098'W

Water Depth: 4325 m

Sediment Thickness: 420 mbsf

Target Drilling Depth: 190 mbsf

Approved Maximum Penetration: 470 mbsf; permission to drill without coring to 283 mbsf

Seismic Coverage: Position of site at shotpoint 3174 on seismic line BGR-99-44 (C. Ranero, pers. comm., GEOMAR, Kiel, Germany and C. Reichert, pers. comm., BGR, Hannover, Germany, 2001).

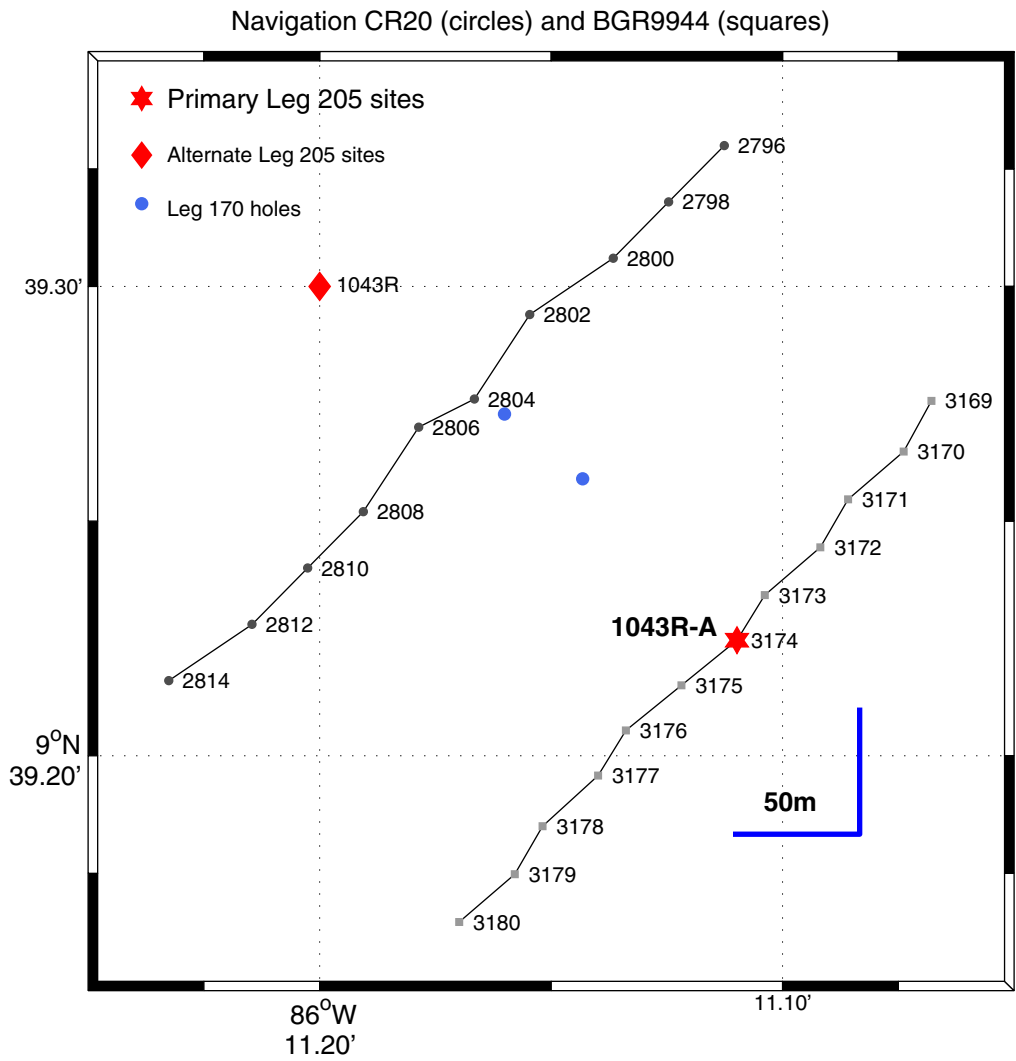
Objectives: The objectives of Site 1043R are to:

1. Investigate the décollement.
2. Investigate fluid flow within the décollement and underthrust sediments.
3. Install modified CORK to monitor pressure and temperature and to sample fluids within the décollement.

Drilling Program: Same décollement and underthrust objectives as at Sites 1040R-A, -B, -C

Logging and Downhole: Same as at Sites 1040R-B and -C

Nature of Rock Anticipated: Deformed claystones and hemipelagics



Site: 1039R

Priority: 2

Position: 9°38.4'N; 86°12'W

Water Depth: 4350 m

Sediment Thickness: 390 mbsf is the depth to top of sill; sill thickness is not reliably resolvable from seismic records; sediment thickness between first sill and second sill/basement is estimated to be ~100 m; top of basaltic basement is estimated at ~550 to 600 mbsf, depending on thickness of sills.

Target Drilling Depth: 700 mbsf

Approved Maximum Penetration: 780 mbsf; approved to drill without coring to 340 mbsf

Seismic Coverage: Position of site at shotpoint 2938 on seismic line CR-20 (K. McIntosh, pers. comm., UTIG, Austin, TX, USA, 2001) and at shotpoint 3259 on seismic line BGR-99-44 (C. Ranero, pers. comm., GEOMAR, Kiel, Germany and C. Reichert, pers. comm., BGR, Hannover, Germany, 2001).

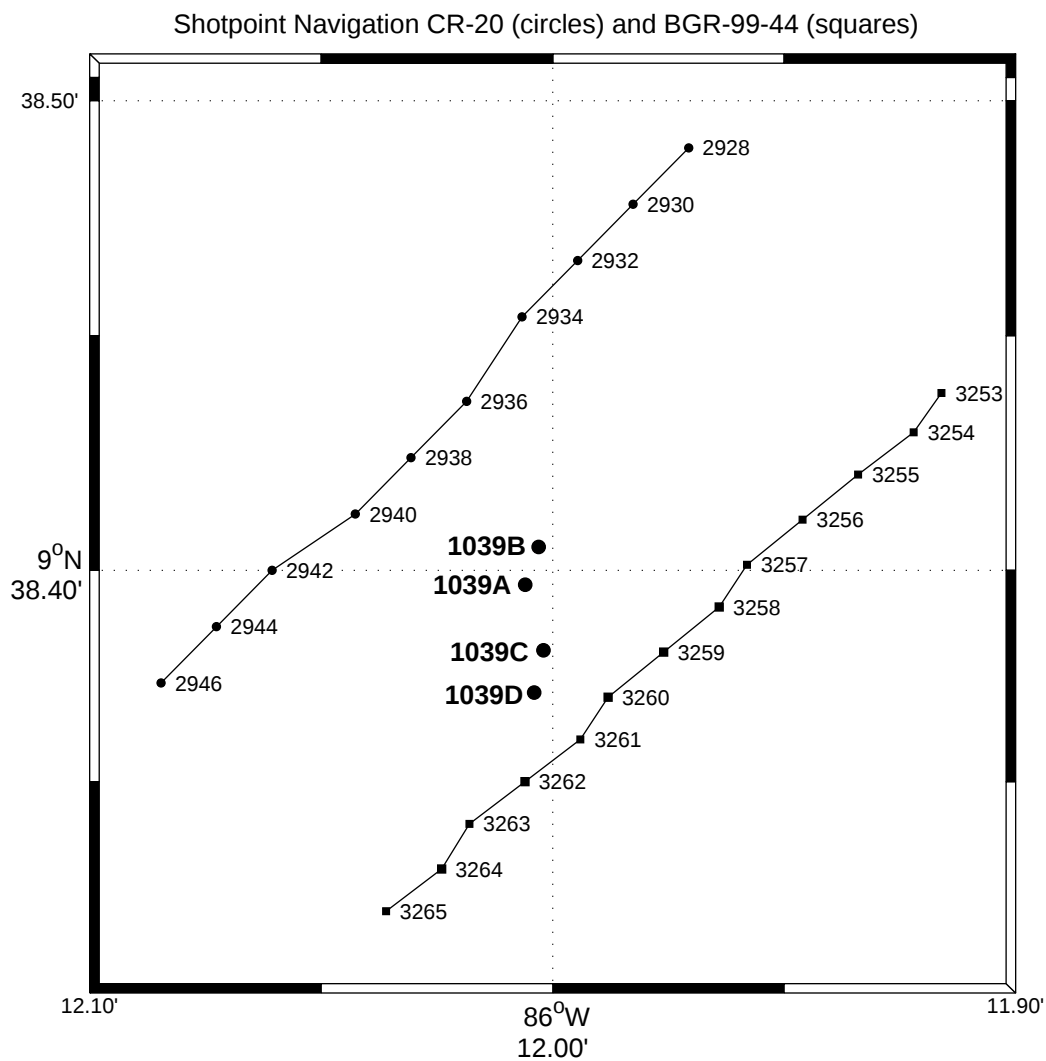
Objectives: The objectives of Site 1039R are to:

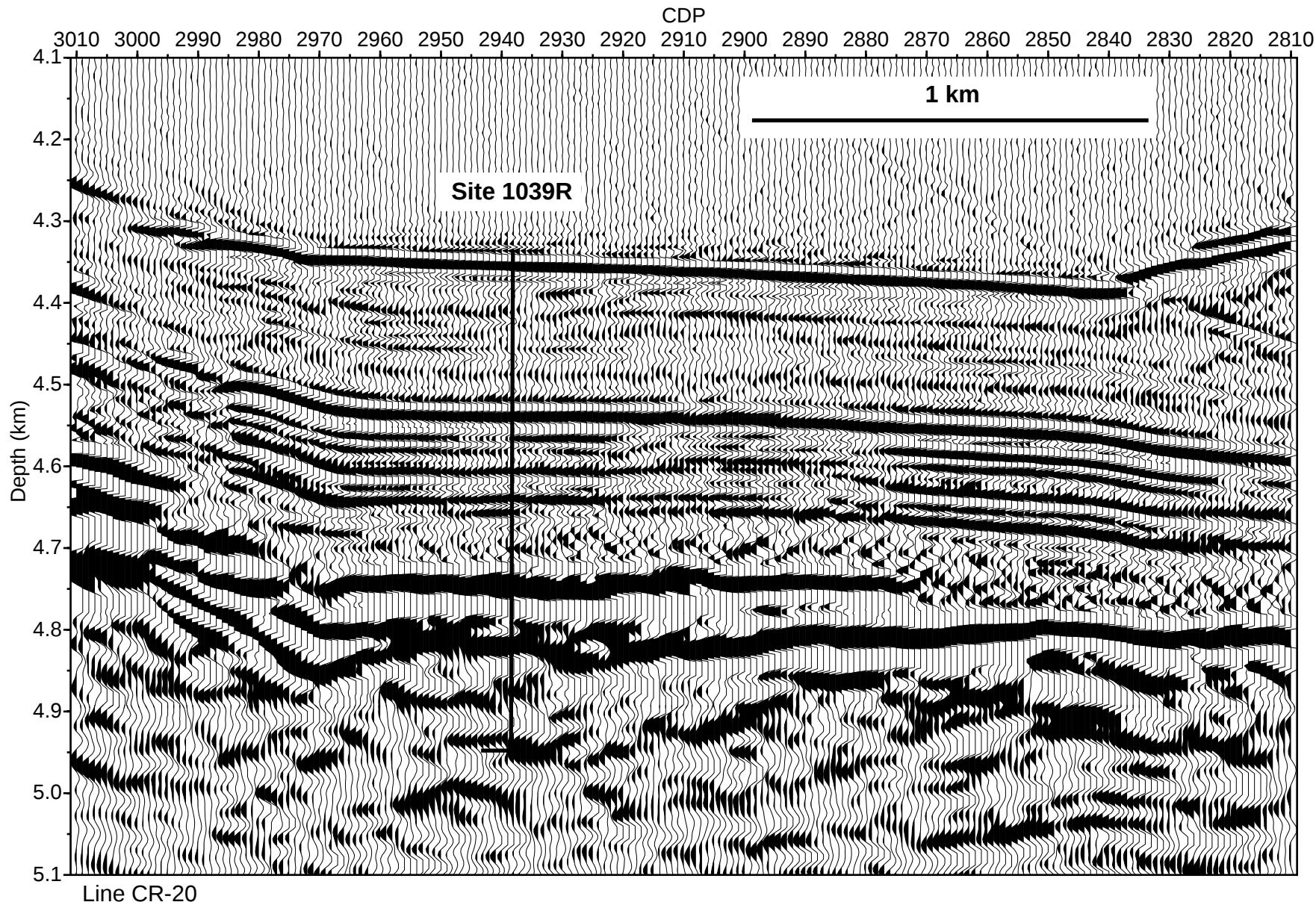
1. Investigate the petrology and alteration state of upper oceanic basement.
2. Determine fluid flow pattern in upper oceanic basement.
3. Install a modified CORK to monitor pressure and to sample basement fluids.

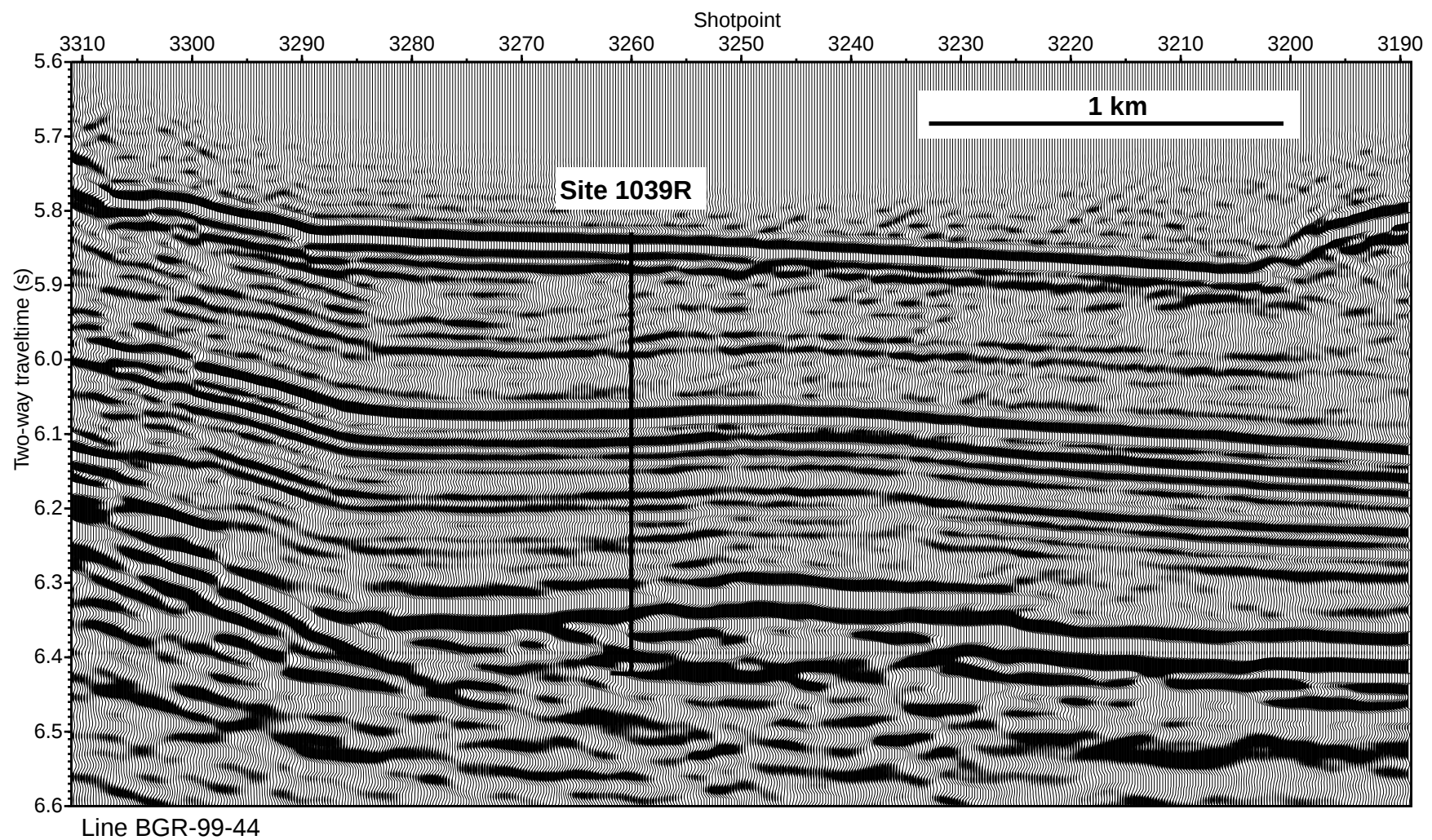
Drilling Program: Core with the RCB from 340 mbsf to total depth (TD); install modified CORK for monitoring fluid flow, pressure, and temperature in upper oceanic basement.

Logging and Downhole: Formation temperature measurements (~5 DVTP), downhole logging with triple combo and FMS/sonic tool strings.

Nature of Rock Anticipated: Hemipelagic and pelagic sediments, gabbro sill, and basalt







Site: 1040R

Priority: 2

Position: 9°39.7'N, 86°10.7'W

Water Depth: 4177 mbsf

Sediment Thickness: 670 m

Target Drilling Depth: 435 mbsf

Approved Maximum Penetration: 920 mbsf; approved to drill without coring to 620 mbsf

Seismic Coverage: Position of site at shotpoint 2736 on seismic line CR-20 (K. McIntosh, pers. comm., UTIG, Austin, TX, USA, 2001) and at shotpoint 3125 on seismic line BGR-99-44 (C. Ranero, pers. comm., GEOMAR, Kiel, Germany and C. Reichert, pers. comm., BGR, Hannover, Germany, 2001).

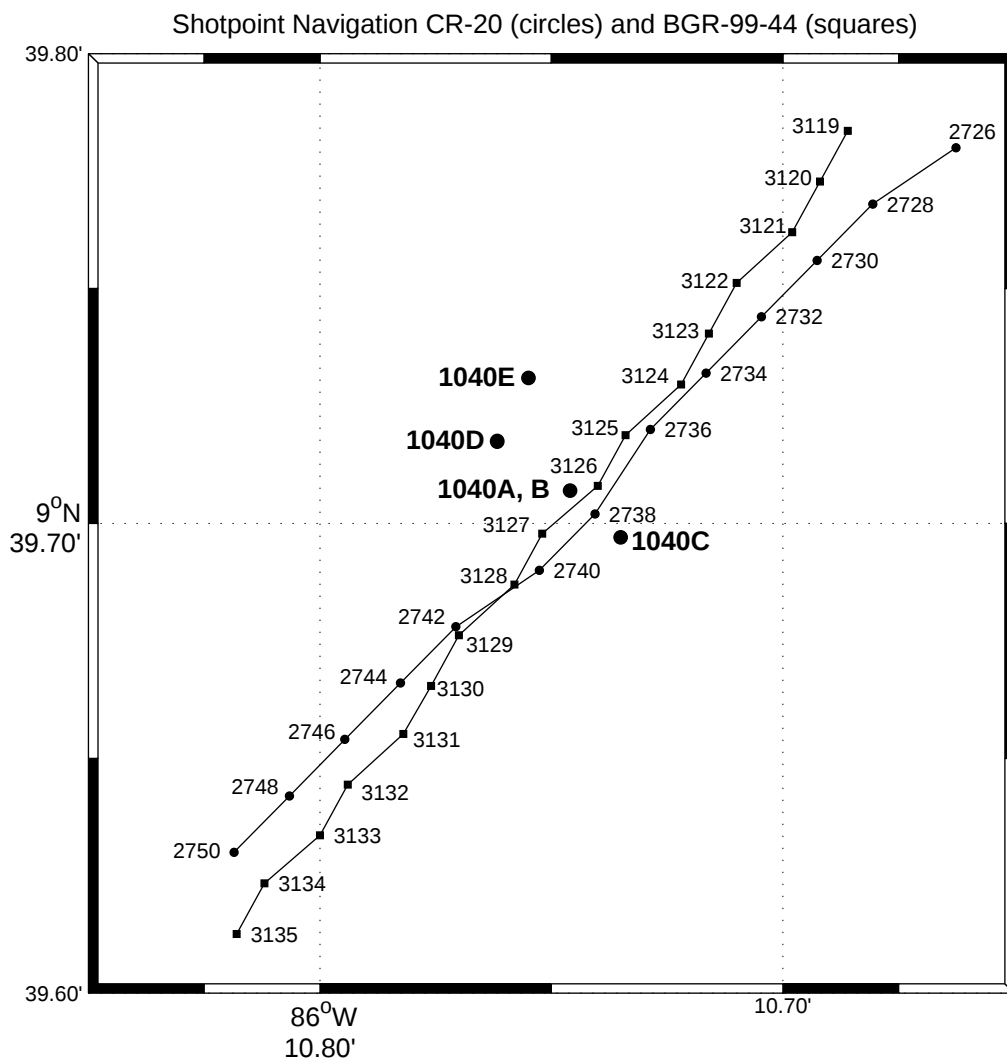
Objectives: The objectives of Site 1040R are to:

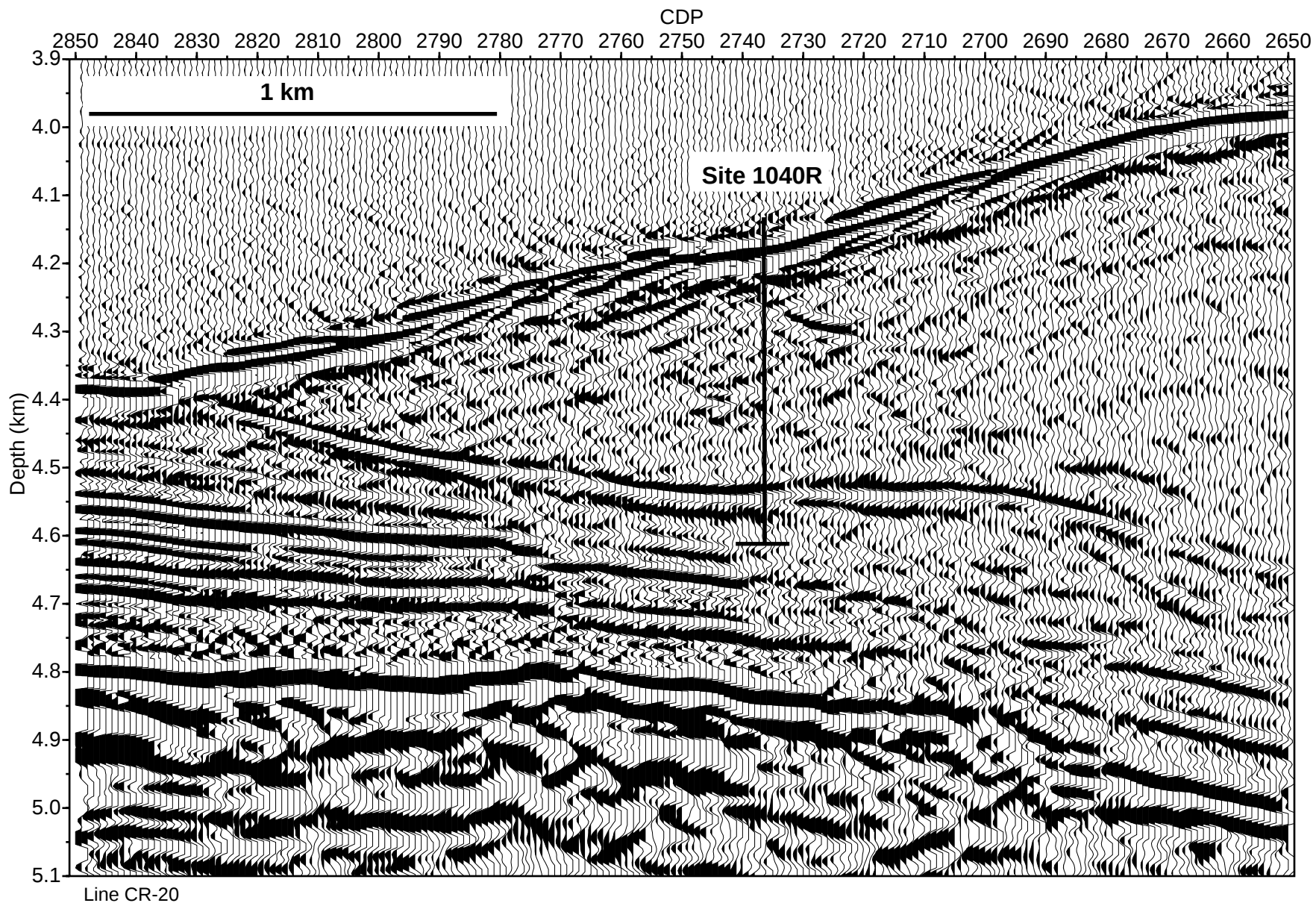
1. Investigate the décollement.
2. Investigate fluid flow within the décollement and underthrust sediments.
3. Install modified CORKs to monitor pressure and temperature and to sample fluids within the décollement and underthrust sediments.

Drilling Program: Three adjacent holes will be drilled at Site 1040R. The first will be cored with the RCB from 180 to 410 mbsf and then a modified CORK will be installed for monitoring fluid flow, pressure, and temperature in the uppermost underthrust sediments (~425 mbsf). The next two holes will be drilled (likely without coring) and a modified CORK will be installed in each hole for monitoring fluid flow, pressure, and temperature in the décollement.

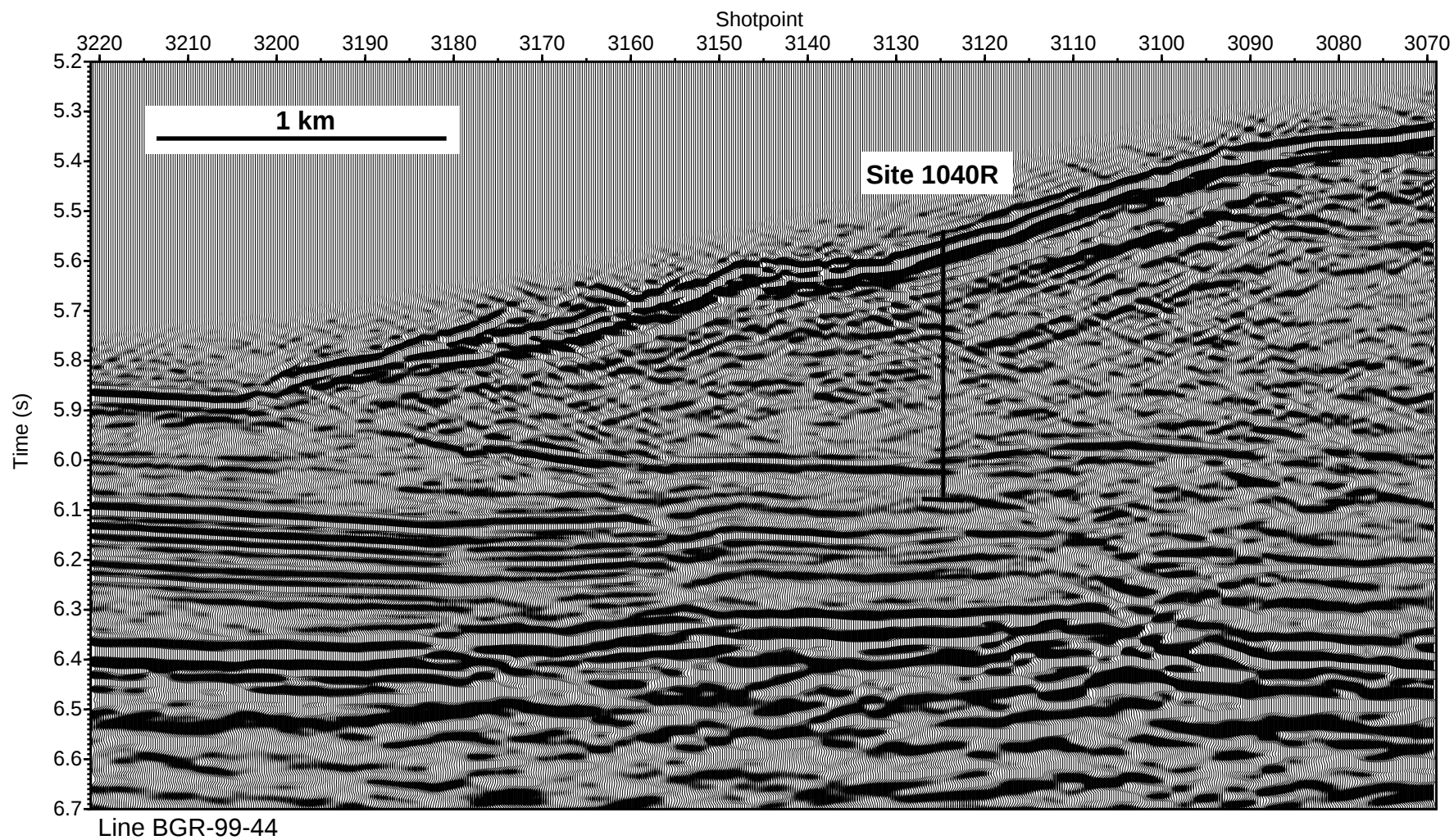
Logging and Downhole: Formation temperature measurements (~5 DVTP); no downhole logging is planned at this site.

Nature of Rock Anticipated: Deformed claystones and hemipelagics





Line CR-20



Site: 1043R

Priority: 2

Position: 9°39.3'N, 86°11.2'W

Water Depth: 4310 m

Sediment Thickness: 490 mbsf

Target Drilling Depth: 180 mbsf

Approved Maximum Penetration: 200 mbsf; permission to drill without coring to 200 mbsf

Seismic Coverage: Position of site at shotpoint 2806 on seismic line CR-20 (K. McIntosh, pers. com., UTIG, Austin, TX, USA, 2001) and at shotpoint 3171 on seismic line BGR-99-44 (C. Ranero, pers. comm., GEOMAR, Kiel, Germany and C. Reichert, pers. comm., BGR, Hannover, Germany, 2001).

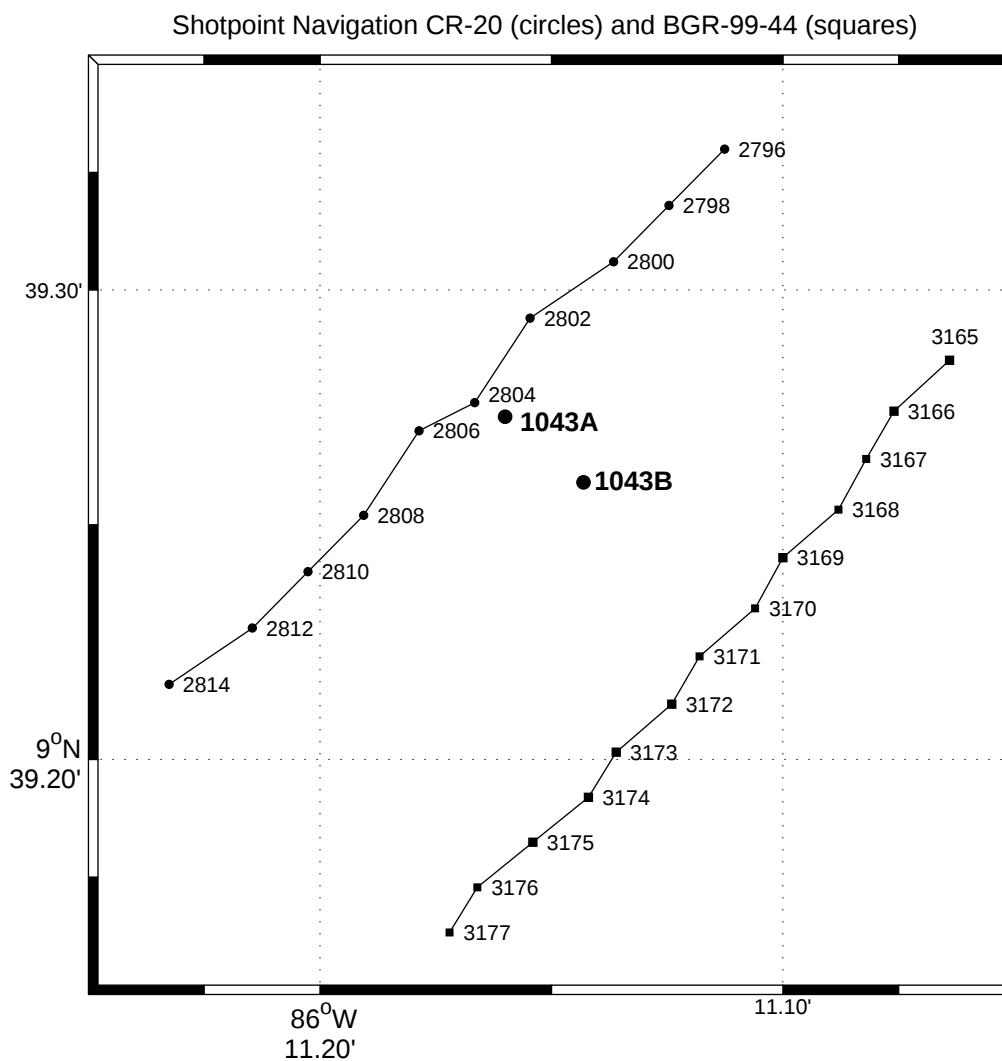
Objectives: The objectives of Site 1043R are to:

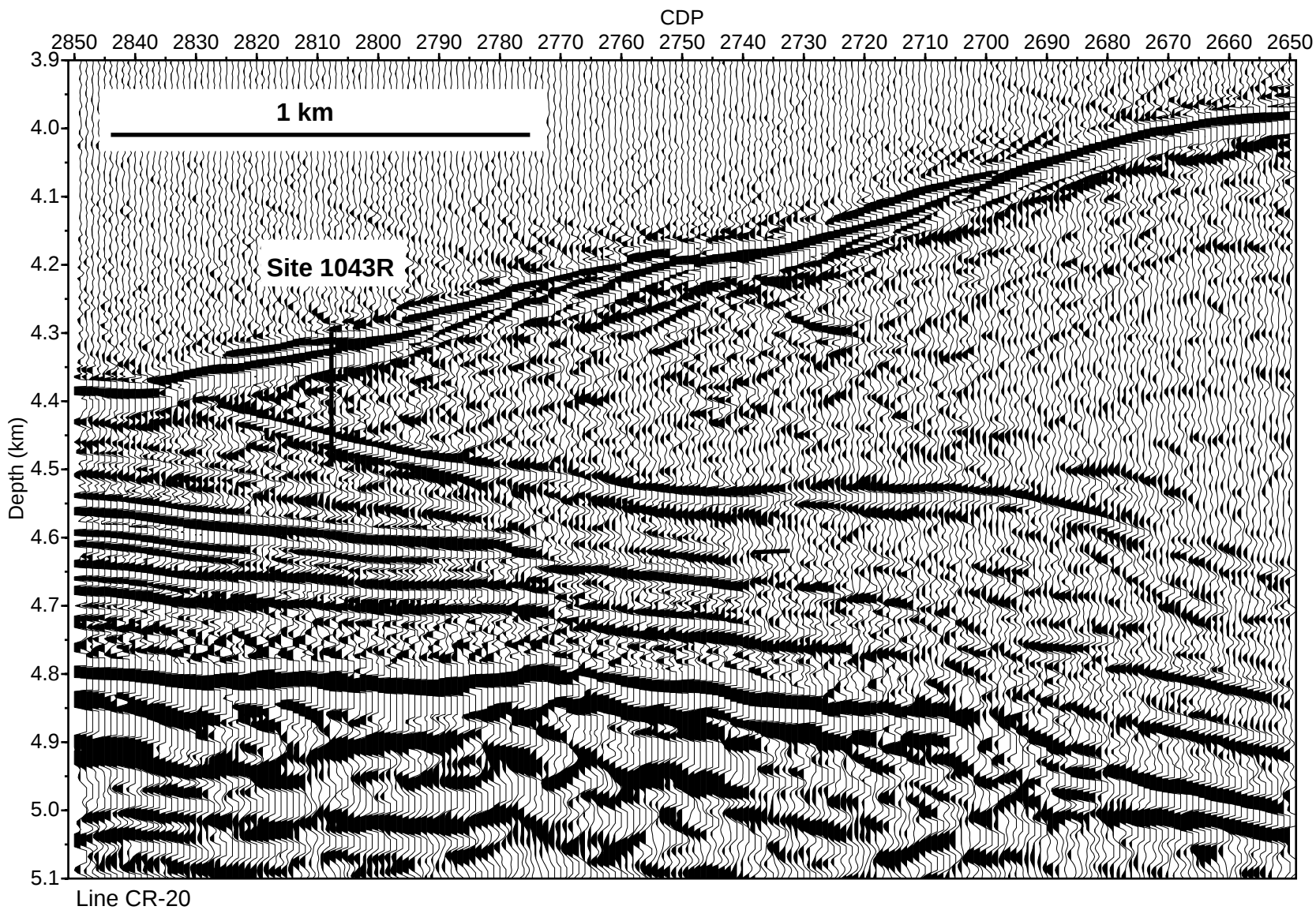
1. Investigate the décollement.
2. Investigate fluid flow within the décollement and underthrust sediments.
3. Install modified CORK to monitor pressure and temperature and to sample fluids within the décollement.

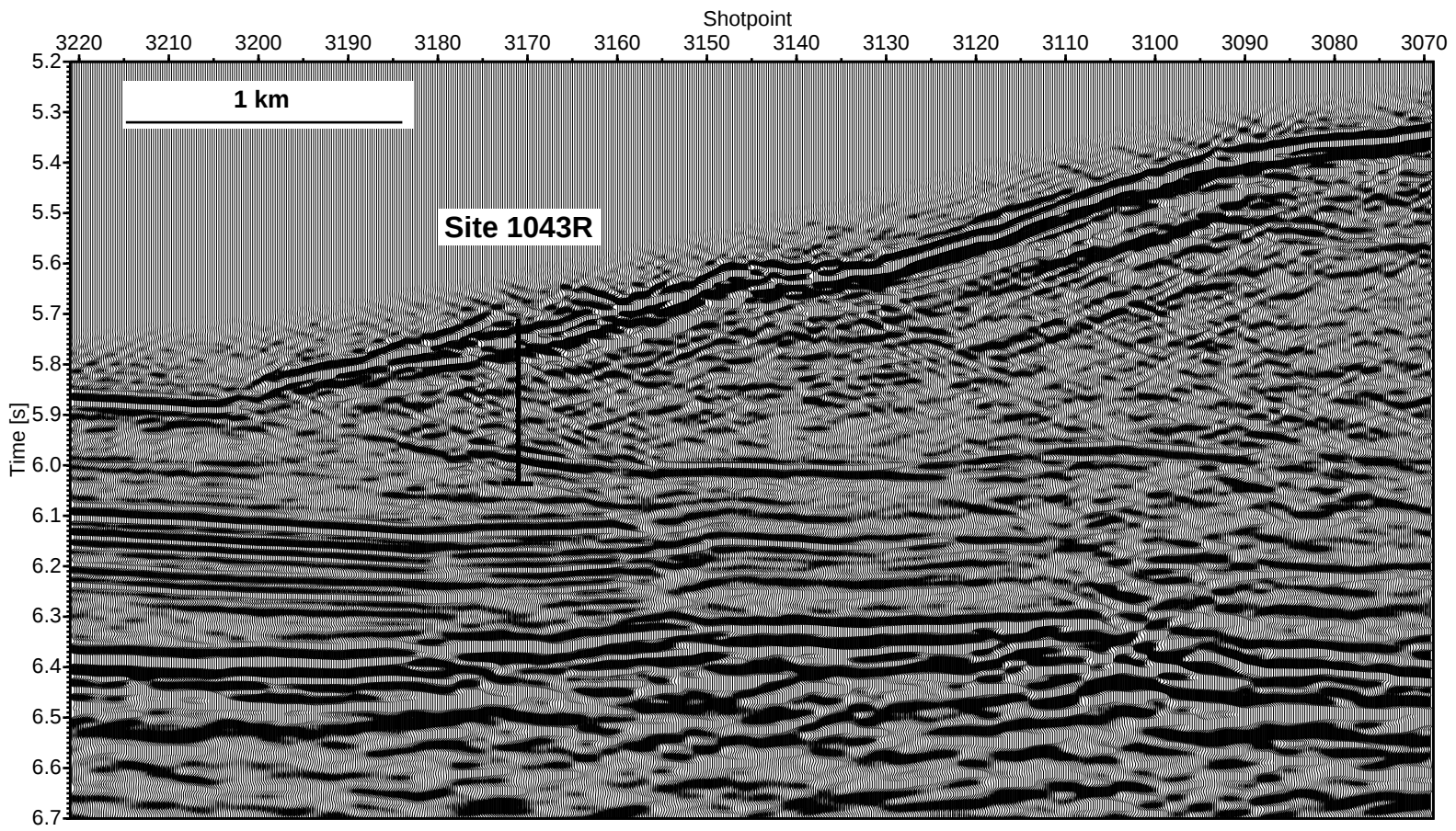
Drilling Program: Same as Site 1040R

Logging and Downhole: Same as Site 1040R

Nature of Rock Anticipated: Deformed claystones and hemipelagics







Line BGR99-44

Leg 205
Scientific Prospectus
Page 66

blank

SCIENTIFIC PARTICIPANTS*

Co-Chief

Julie D. Morris

Department of Earth and Planetary Sciences

Washington University

One Brookings Drive

CB 1169

St. Louis, MO 63130-4899

USA

Internet: jmorris@levee.wustl.edu

Work: (314) 935-6926

Fax: (314) 935-7361

Co-Chief

Heinrich W. Villinger

Fachbereich Geowissenschaften

Universität Bremen

Postfach 330 440

Bremen 28334

Germany

Internet: vill@uni-bremen.de

Work: (49) 421-218-4509

Fax: (49) 421-218-7163

Staff Scientist

Adam Klaus

Ocean Drilling Program

Texas A&M University

1000 Discovery Drive

College Station, TX 77845-9547

USA

Internet : aklaus@odpemail.tamu.edu

Work: (979) 845-3055

Fax: (979) 845-0876

Inorganic Geochemist

Miriam Kastner

Scripps Institution of Oceanography

University of California, San Diego

Geoscience Research Division

9500 Gilman Drive

La Jolla, CA 92093-0212

USA

*Staffing is incomplete and subject to change.

Leg 205
Scientific Prospectus
Page 68

Internet: mkastner@ucsd.edu
Work: (858) 534-2065
Fax: (858) 534-0784

Physical Properties Specialist
Marion Pfender
Geowissenschaften 5
Universität Bremen
Postfach 33 04 40
Bremen 28334
Germany
Internet: pfender@geophys2.uni-bremen.de
Work: (49) 421- 2187165
Fax: (49) 421-2187163

Physical Properties Specialist
Demian M. Saffer
Department of Geology and Geophysics
University of Wyoming
16th and Gibbon St.
Laramie, WY 82071-3006
USA
Internet: dsaffer@uwyo.edu
Work: (307) 766-2981
Fax: (307) 766-6679

Logging Staff Scientist
Masanori Ienaga
Ocean Research Institute
University of Tokyo
1-15-1 Minamidai
Nakano, Tokyo 164-8639
Japan
Internet: ienaga@ori.u-tokyo.ac.jp
Work: (81) 3-5351-6538
Fax: (81) 3-5351-6438

Schlumberger Engineer
Kerry Swain
Schlumberger Offshore Services
369 Tristar Drive
Webster, TX 77598
USA
internet: swaink@webster.oilfield.slb.com
Work: (281) 480-2000
Fax: (281) 480-9550

*Staffing is incomplete and subject to change.

Operations Manager
Thomas L. Pettigrew
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: pettigrew@odpemail.tamu.edu
Work: (979) 845-2329
Fax: (979) 845-2308

Laboratory Officer
William G. Mills
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: mills@odpemail.tamu.edu
Work: (979) 845-2478
Fax: (979) 845-0876

Assistant Laboratory Officer
Chieh Peng
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: peng@odpemail.tamu.edu
Work: (979) 845-3602
Fax: (979) 845-0876

Marine Lab Specialist: Yeoperson
Michiko Hitchcox
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: hitchcox@odpemail.tamu.edu
Work: (979) 845-2483
Fax: (979) 845-0876

Marine Lab Specialist: Chemistry
Dennis Graham
Ocean Drilling Program

*Staffing is incomplete and subject to change.

Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: graham@odpemail.tamu.edu
Work: (979) 845-3602
Fax: (979) 845-0876

Marine Lab Specialist: Curator
Jessica Huckemeyer
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845
USA
Internet: huckemeyer@odpemail.tamu.edu
Work: (979) 845-4822
Fax: (979) 845-1303

Marine Lab Specialist: Downhole Tools, Thin Sections
Ted Gustafson
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: gustafson@odpemail.tamu.edu
Work: (979) 845-3602
Fax: (979) 845-0876

Marine Lab Specialist: Paleomagnetism
Charles A. Endris
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845
USA
Internet: endris@odpemail.tamu.edu
Work: (979) 845-3602
Fax: (979) 845-0876

Marine Lab Specialist: Photographer
Cyndi J. Prince
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845

*Staffing is incomplete and subject to change.

USA

Internet: prince@odpemail.tamu.edu

Work: (979) 845-2480

Fax: (979) 845-0876

Marine Lab Specialist: Underway Geophysics

Paula Weiss

Ocean Drilling Program

Texas A&M University

1000 Discovery Drive

College Station, TX 77845

USA

Internet: pweiss@qwest.net

Work: (979) 845-3602

Fax: (979) 845-0876

Marine Electronics Specialist

Michael Meiring

Ocean Drilling Program

Texas A&M University

1000 Discovery Drive

College Station, TX 77845

USA

Internet: meiring@odpemail.tamu.edu

Work: (979) 845-3602

Fax: (979) 845-0876

Marine Computer Specialist

Randy W. Gjesvold

Ocean Drilling Program

Texas A&M University

1000 Discovery Drive

College Station, TX 77845-9547

USA

Internet: gjesvold@odpemail.tamu.edu

Work: (979) 845-3602

Fax: (979) 845-0876

Marine Computer Specialist

John Davis

Ocean Drilling Program

Texas A&M University

1000 Discovery Drive

College Station, TX 77845

USA

*Staffing is incomplete and subject to change.

Leg 205
Scientific Prospectus
Page 72

Internet: jdavis@odpemail.tamu.edu
Work: (979) 862-4849
Fax: (979) 458-1617

Marine Computer Specialist
Michael J. Hodge
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77845-9547
USA
Internet: hodge@odpemail.tamu.edu
Work: (979) 862-4845
Fax: (979) 458-1617

ODP/TAMU Programmer
Weining Chen
Ocean Drilling Program
Texas A&M University
1000 Discovery Drive
College Station, TX 77840
USA
Internet: chen@odpemail.tamu.edu
Work: (979) 845-1918
Fax: (979) 458-1617

*Staffing is incomplete and subject to change.